

Drilling Authority No. 545
Date Issued 29-10-71

WELL NAME Union Amoco McPherson B-25
FIELD Area:
LOCATION: Unit E Section 25 Grid 67-20 -- 135-39
Latitude 67°14'00.78" Longitude 135°34'22.37"
U.W.L.R. 67.23355 - 135.57288
U.W.I. 300B256720135300

Rig Release Date:
Status Suspended
Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
29-10-71	Application for a Drilling Authority.
18-05-72	Well Completion Data.
9-11-71	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
8-05-72	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells - Vitter's Method.
	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....

Well Name & No - Nom et n° du puits

UNION AMOCO MCPHERSON 3-25 (Permittee, Licensee, Lessee) — (Dé détenteur de permis ou de licence, du concessionnaire)		6239	Permit No. — N° de permis Lease No. — N° de concession
Union Oil Co. of Canada Ltd., Amoco Canada (Operator) — (Exécutant)		1431, 1429	Exploratory Licence No. — N° de licence de sondage
UNION OIL COMPANY OF CANADA LTD.		1429 & 1459	Exploratory Licence No. — N° de licence de sondage

LOCATION - EMPLACEMENT				1429 & 1439	
Unit - Unité B	Section 25	Grid - Étendue quadrillée 67-20 - 135-30	Latitude 67° 14' 00.78" N	Longitude 135° 34' 22.37" W	
Unique Well Identifier - Code d'ordinateur 300B256720135300			Universal Well Location Reference - Références universelles d'emplacement du puits Lat. 67.23355° N., Long. 135.57288° W.		

	Date	Depth - Profondeur	Pool(s)	Gisement(s)
Spudded Début des travaux	Jan 8/72			
Suspended Suspension des travaux	Apr 30/72	9475'	Interval(s) Open to Production Intervalle(s) de production	
Resumed Operations Reprise des travaux				
Finished Drilling Forage terminé				
Deepened Approfondissement				
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)				
Abandoned Abandon			Elevation: Gr. Altitude du sol	1590
Rig Released Fin des travaux			No. 2	1615
			Drilling Contractor Entrepreneur en forage	Peter Bawden
			Contractor's Business Licence No. No du permis de l'entrepreneur	

MAY 8 1972
 OBSERVATION ENGINEER
 ALBERTA MINISTRY OF PETROLEUM
 DEVELOPMENT

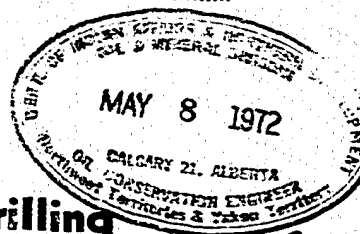
CASING RECORD - TUBAGE					
Casing Size (Inches) Diamètre (en pouces)	Grade Qualité	Weight Poids	Amount Longeur	Set at - Fixation à	Sacks of Cement and Additives Sacs de ciment et d'additifs
1. 20	H-40	94	40	40 (grd)	136
2. 13-3/8	J-55	68	1527.74	1524 (KB)	1578 + 2% CaCl ₂
3. 9-5/8	S00-95	47#, 43.5#	8788-3b	8786.31	1200 + 0.205% R5
4.	N-80	40#			
5.					
6.					

[illegible]



Drilling Authority No. 545

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to ~~Abandon Well~~ or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well UNION AMOCO MCPHERSON B-25
Location: Unit B Section 25 Grid 67-29-135-30
Latitude 67° 14' 00.78" N Longitude 135° 34' 22.37" W
From Established Reference Marker Triangulation Station "MAC"
Universal Well Location Reference Lat. 67.23335° N., Long. 135.57288° W.
Permit No. 6239 Lease No.

Union Oil Co. of Canada Ltd. Amoco Canada
(Permitter, Licensee, Lessee)
Petroleum Co. Ltd.

Date of commencement of proposed program January 8, 1972

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at N/A
Gas at N/A
Water at N/A
Total Depth 9475' Date of last operations April 30, 1972
Present condition of well Ran and cemented 9-5/8" intermediate casing to 8786.3 K.B.,
left 688.7' of 12-1/4" open hole under the casing due to unacceptable
hole condition.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 20	94	40'	40 (grd)	136	NIL
2. 13-3/18	68	1527.74	1524 (KB)	1578 + 2% CaCl ₂	set in tension
3. 9-5/8	47#, 43.5#, 40#	8788.36	8786.31 (KB)	1200 + 0.205% R5	set in tension
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug		Geological Formation	Number of Sacks of Cement	Remarks
	Position				
		N/A			

The following logs have been run No logging

Other operations proposed Completing drilling to the proposed total depth by
next winter

Operations to be carried out by Peter Bawden Rlg #2

Contractor Licence No.

Address P.O. Box 5900, Edmonton, Alberta

Address

Responsible Agent in field J.J. Sullivan

Dated at CALGARY, Alberta

, this 3rd

Day of May

19 72

Signed by J.J. Sullivan

J.J. Sullivan

Company Union Oil Company of Canada Ltd.

Title Drilling Superintendent

Operator's Exploratory Licence No. 1459

1459

Note:—The District Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by Mr. M. D. Thomas
on the 17th April 1972.

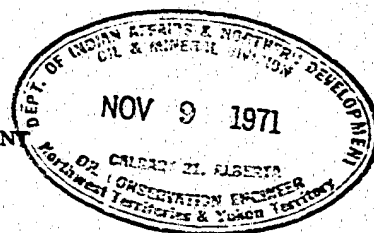
Dated May 10, 19 72

L. Shual
District Conservation Engineer



Drilling Authority No. 545

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to Amend a Drilling Authority

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 545, concerning

UNION AMOCO McPHERSON B-25

(Name and Number of Well)

We are applying to amend the casing program for the subject well as follows:

- (1) Set 20" 94# new conductor at 60' - cement to surface.
- (2) Set 13-3/8" 68# K-55 new surface casing at 1500' - cement to surface.
- (3) Set 9-5/8" 40, 43.5# N-80, S00-95 new intermediate casing at 9200' - cement with 1000 sacks.

Reasons for the amendments: We expect to encounter consolidated formations at 50 feet. Permafrost is expected to be less than 200 feet and should not present any problems. The revised program will set 9-5/8" at 9200 feet prior to drilling deeper.

Dated at Calgary, this 8th day of November, 1971

Signed by *[Signature]*

Title Manager Production Operations

Company Union Oil Company of Canada Limited

(For Oil and Mineral Division use only)

APPROVED

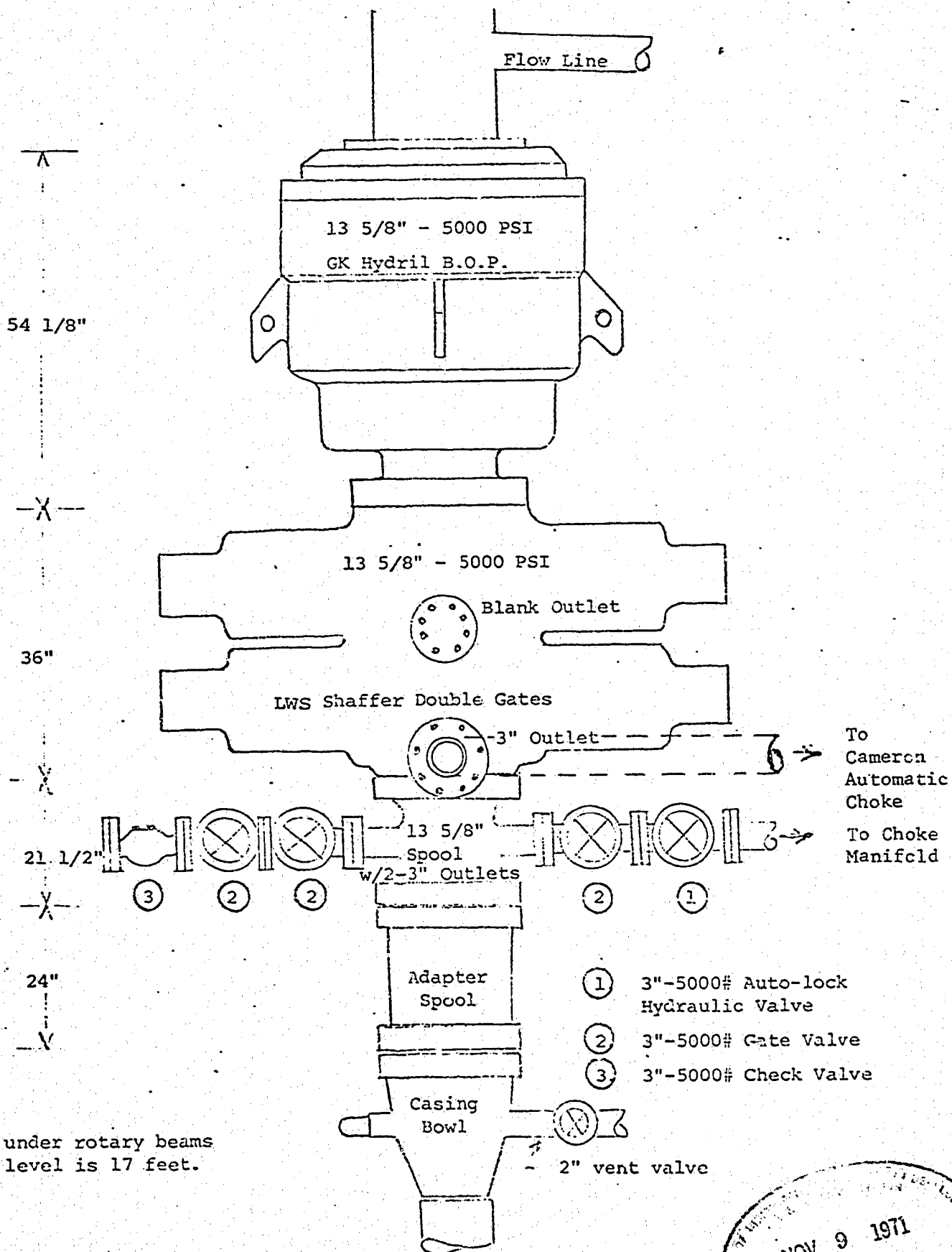
This application has been examined and approved subject to the following conditions: The 9.5/8" casing program is not as in item (3) of this Application to Amend a Drilling Authority but is as follows, as received by telephone from Mr. Jim Sullivan, Drilling Superintendent, Union Oil:

Surface to 453'	43.5#	N-80
453' to 4053'	40#	N-80
4053' to 5758'	43.5#	N-80
5758' to 8000'	47#	N-80
8000' to 10,000'	43.5#	S00-95

Date Nov. 15, 1971

[Signature]
District Conservation Engineer

PETER BAWDEN DRILLING LIMITED

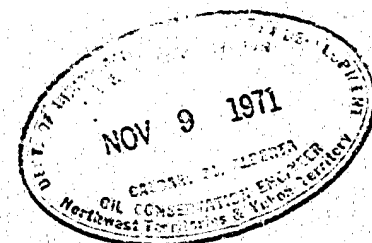


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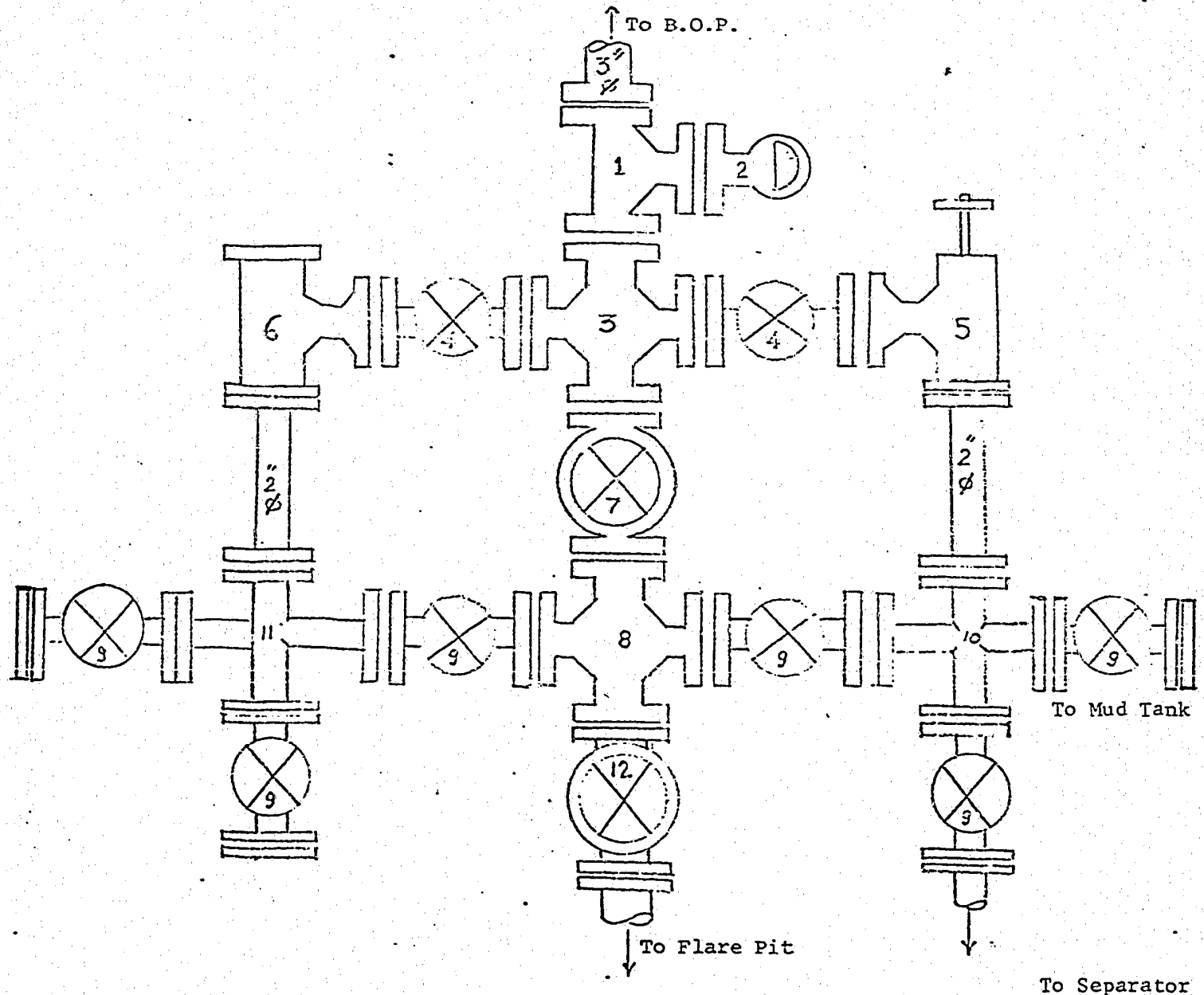
Clearance under rotary beams
to ground level is 17 feet.

MKE
21/10/71

B. O. P. STACK - RIG NO. 2



PETER BAWDEN DRILLING LIMITED



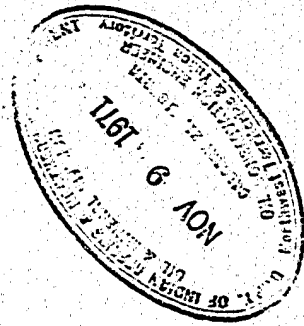
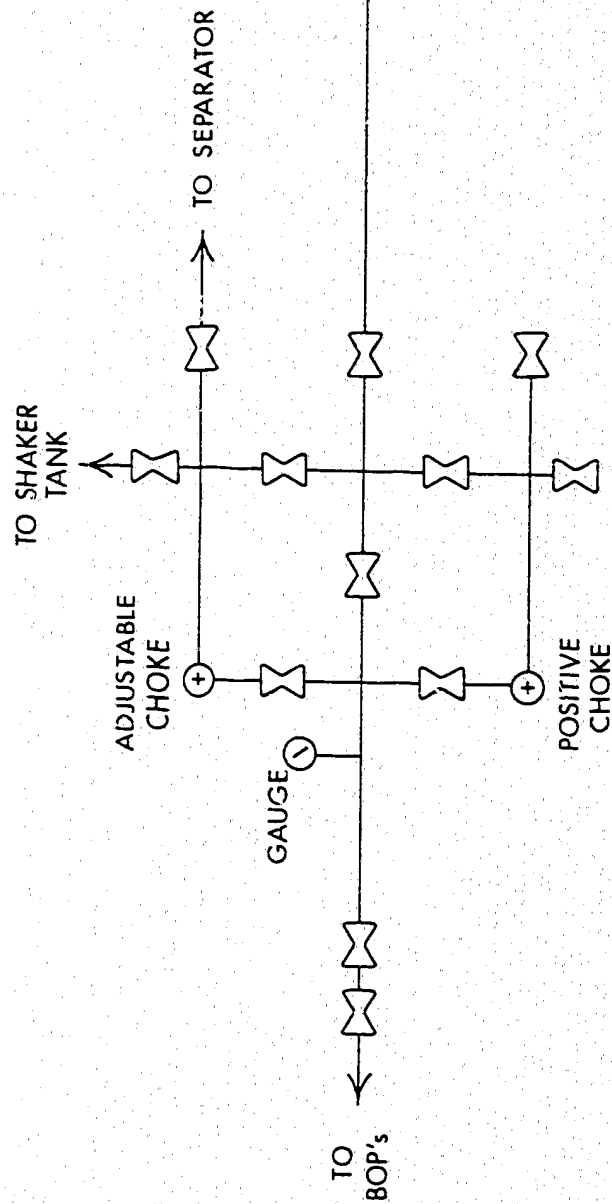
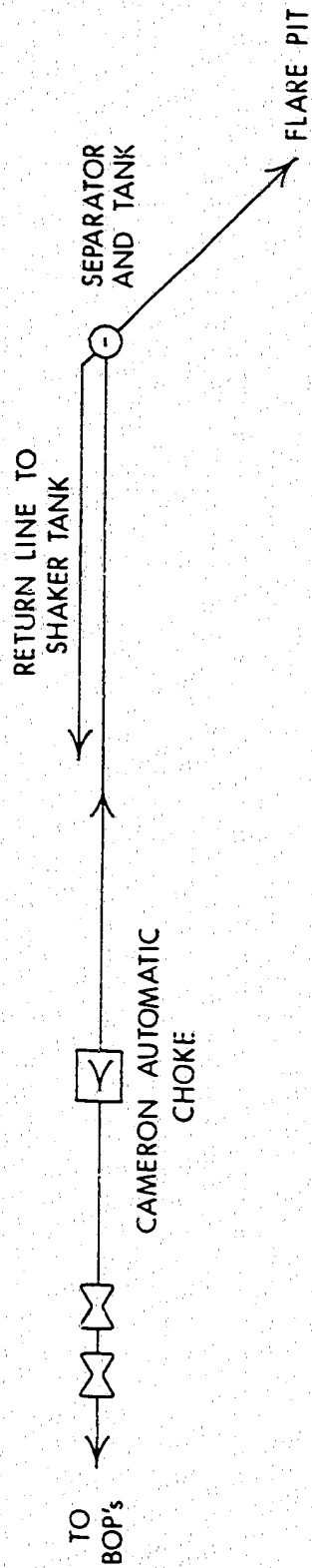
- | | |
|--|---|
| 1. 3" x 3" x 2" - 5000# Flanged Tee | 7. 3" - 5000# Gate Valve |
| 2. 2" - 5000# Pressure Gauge | 8. 3" x 3" x 2" x 2" - 3000# Flanged Cross |
| 3. 3" x 3" x 2" x 2" - 5000# Flanged Cross | 9. 2" - 3000# Gate Valve |
| 4. 2" - 5000# Gate Valve | 10. 2" x 2" x 2" x 2" - 3000# Flanged Cross |
| 5. 2" Adjustable Choke | 11. 2" x 2" - 3000# Flanged Tee |
| 6. 2" Positive Choke | 12. 3" - 3000# Gate Valve |

3" x 2" - 5000# CHOKE-MANIFOLD ON RIG #2

MKE
21/10/71

UNION AMOCO McPHERSON 13-25

BLOWOUT PREVENTER CHOKES SYSTEM





DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:-

Name and number of well UNION. AMOCO. McPHERSON. B-25.

Location: Unit B. Section 25 Grid 67°20'N., 135°30'W.

Latitude . 67°14'00.78"N. Longitude . 135°34'22.37"W.

Unique Well Identifier 300B256720135300

Universal Well Location Reference. Lat. 67.23355° N., Long. 135.57288° W.

Elevation: Ground 1560' (est.) K.B. feet above sea-level.

Well is expected to produce from . Devonian and Silurian-Ordovician formation at a depth

of about . 9250. and 12,800. feet. Expected total final depth . 14,000. feet.

Area assigned to well (for District Conservation Engineer's use only)

Permit No. . . 6239. Lease No. Acreage

Permittee, licensee, or lessee Amoco. Canada Petroleum Co. Ltd., Union Oil Company of Canada Ltd.

Explanatory Licence No. . 1429. & 1431

Surface owned by Crown or . Crown. (If alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by Crown.

We propose to use the following strings of casing, either cementing or landing them as indicated below:-

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 32"		Conductor	New	60'	100
2. 20"	94	H-40	New	300'	700
3. 13-3/8"	68	K-55	New	2000-2500'	2000-2495
4. 9-5/8"	40, 43.5,	N-80, Soo 95	New	9200-11000'	1500
5. (if required)	47				

Expected water, gas, and oil horizon. and type of control equipment.

... Middle Devonian and Silurian-Ordovician, control by adequate mud weight.

... and Shaffer and Hydril BOP's.

Well will be drilled with Rotary Rig No. . . 2. by . Peter. Bawden Drilling Services Ltd..
(Drilling Contractor of company)

Responsible agent of applicant:-

Contractor's Business Licence No.

At well. J.J. Sullivan At registered office. Eric J. Connor.

Address 335 - 8 Avenue SW, Calgary. Address . 335 - 8 Avenue SW, Calgary, Alberta.

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary, Alberta this 28th day of . October 19 71

Signed by Company . Union Oil Company of Canada Ltd.

Title Manager Production Operations. Operator's Licence No. . 1429.

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

Please see attached sheet for Conditions of Approval.

Dated. 29th October 19 71

District Conservation Engineer

Forms to be submitted to District Conservation Engineer,
Department of Indian Affairs and Northern Development.

CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY NO. 545
FOR UNION AMOCO McPHERSON B-25 issued 29th Oct. 1971

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week/daily, the latest reports received by radio on the progress of the well.
3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional strings of casing must be approved by the District Conservation Engineer prior to running.
6. The 32-inch, 20-inch and 13 3/8-inch strings of casing shall be cemented to surface.
7. Before spud date, a complete set of corrected drawings for the BQP stack and manifold must be submitted to the District Conservation Engineer.

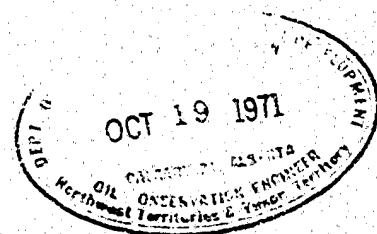
M. D. Thomas

M. D. Thomas
District Conservation Engineer
District 2

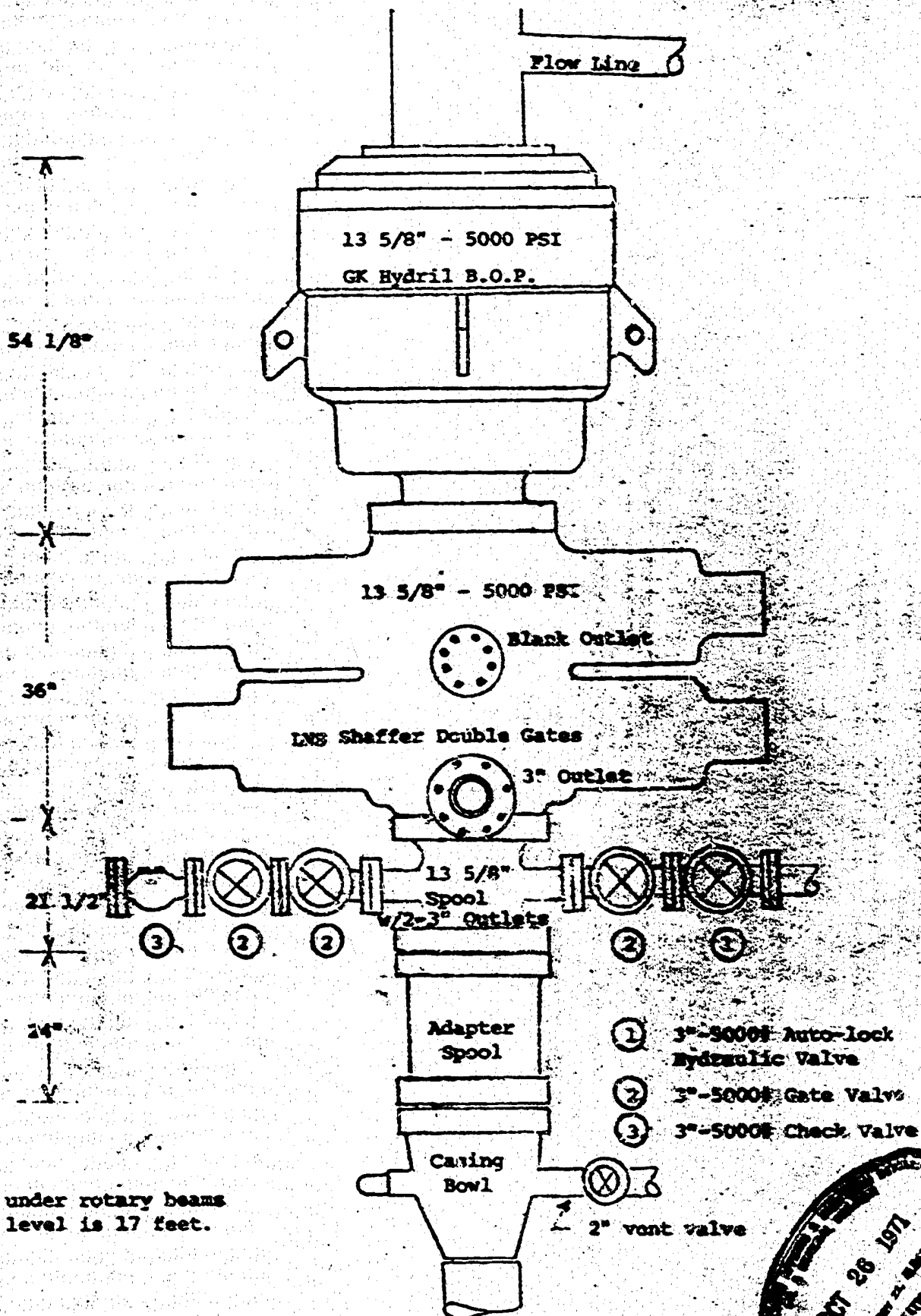
UNION AMOCO McPHERSON B-25

GEOLOGICAL PROGNOSIS

<u>FORMATION TOPS</u>	<u>Depth</u>	<u>Subsea</u>	<u>Thickness</u>
GLACIAL DRIFT	0	+ 1610	50'
LOWER CRETACEOUS			
Lower Sandstone Division	50	+ 1560	300'
UPPER DEVONIAN			
Imperial	350	+ 1260	8611'
MIDDLE DEVONIAN			
Canol	8961	- 7351	150'
Hume (Nahanni)	9111	- 7501	160'
Green Shale Marker	9271	- 7661	30'
Bear Rock (Landry)	9301	- 7691	2450'
SILURIAN - ORDOVICIAN			
Ronning (Mt. Kindle)	11751	-10141	1050'
Sandstone Marker (Base Mt. Kindle)	12801	-11191	1700'
CAMBRIAN	14501	-12891	



PETER BAWDEN DRILLING LIMITED



N.S.

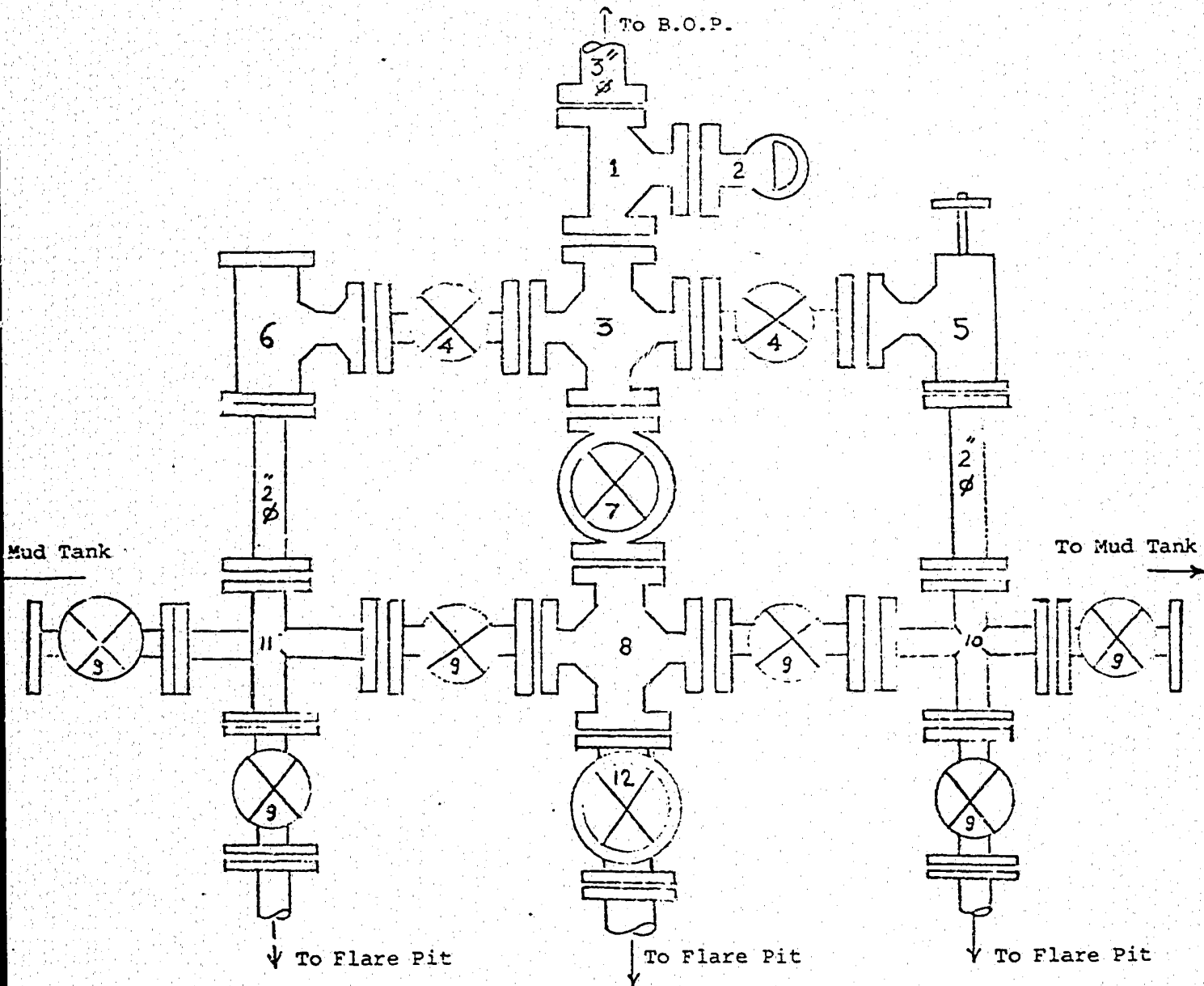
Clearance under rotary beams
to ground level is 17 feet.

NCE
21/10/71

B. O. P. STACK - RIG NO. 2



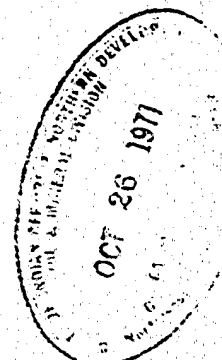
PETER BAWDEN DRILLING LIMITED



- | | |
|--|---|
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| 4. 2" - 5000# Gate Valve | 10. 2" x 2" x 2" x 2" - 3000# Flanged Cross |
| 5. 2" Adjustable Choke | 11. 2" x 2" - 3000# Flanged Tee |
| 6. 2" Automatic Choke | 12. 3" - 3000# Gate Valve |

3" x 2" - 5000# CHOKE-MANIFOLD ON PIG #2

MKE
21/10/71



5

⊗

UNION AMOCO McPHERSON B-25
67° 14' 00.78" N
135° 34' 22.37" W

Alaska - 53

6911 5

UNION AMOCO McPHERSON B 25

67° 14' 00.78" N

135° 34' 39.37" W





**Amoco Canada
Petroleum Company Ltd.**

Bentall Building
444-7th Avenue S.W.
Calgary 2, Alberta, Canada

October 19, 1971

Re: Exploratory Permit No. 6297
Amoco Canada Lease No. 14044
McPherson Area
Northwest Territories, Canada

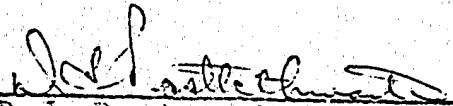
Dr. H. W. Woodward, Chief
Oil & Mineral Division
Department of Indian Affairs & Northern
Development
400 Laurier Avenue West
OTTAWA 4, Ontario

Dear Sir:

Further to my letter of October 18, 1971, Amoco Canada Petroleum Company Ltd. also appoints Union Oil Company of Canada Limited as operator of the captioned Permit.

Yours very truly,

AMOCO CANADA PETROLEUM COMPANY LTD.


D. L. Postlethwaite
District Landman

DLP:jt

cc: Mrs. V. A. Hewson, Geological Operations Clerk
Department of Indian Affairs & Northern Development

✓ Union Oil Company of Canada Limited
Attention: Mr. Jim Sullivan

WELL HISTORY REPORT

UNION AMOCO McPHERSON B-25



WELL HISTORY REPORT

UNION AMOCO McPHERSON B-25

Latitude 67° 14' 00.78" N.

Longitude 135° 34' 22.37" W.

NORTHWEST TERRITORIES

CANADA



H.R. Morris, P. Eng.

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SUMMARY OF WELL DATA

a. WELL NAME

Union Amoco McPherson B-25

b. PERMITTEE

Amoco Canada Petroleum Co. Ltd., Union Oil Company of Canada Ltd.

c. NAME OF OPERATOR

Union Oil Company of Canada Limited
335-8th Avenue S.W., Calgary, Alberta

d. LOCATION

Unit B, Section 25, Grid 67-20' - 135° 30'
Latitude 67° 14' 00.78"N., Longitude 135° 34' 22.37" W.
Unique Well Identifier No. 300B256720135300
Universal Well Location Reference (Lat. 67.23355 N
(Long. 135.57288 W
Located 30 miles by road southwest of Fort McPherson, N.W.T.

e. PERMIT NUMBER

6239

f. DRILLING CONTRACTOR

Peter Bawden Drilling Services Ltd.

Rig No. 2 National 1320-UE (diesel electric)

Power 3 Superior PTDS-8-2250 H.P.

Derrick 142' Capacity 1,025,000 lbs.

Pumps National triplex 10-P-130
Gardner Denver duplex GXR

B.O.P.'s Hydril 12" - 3,000 psi and 10" - 5,000 psi
Shaffer 12" - 3,000 psi and 10" - 5,000 psi

Drillpipe 5" Grade E and G

Drill Collars 10 only 9"
8 only 8"
30 only 6 3/4"

Desilter a 4" six cone desilter

Degasser Swaco degasser with independent centrifugal pump.

g. DRILLING AUTHORITY

No. 545 Date Issued - October 24, 1971

h. CLASSIFICATION

Wildcat

i. ELEVATIONS

Ground 1590', CBF 1593', K.B. 1615'

j. DATE SPUDDED

January 8, 1972 (2:00 p.m.)

k. DATE COMPLETED DRILLING

April 20, 1972 (12:00 noon)

l. TOTAL DEPTH AND SUSPENDED TOTAL DEPTH

T.D. 9475' (TVD 9452.52')

Intermediate casing set at 8786.65' (K.B.) (T.V.D. 8770.57')

m. WELL STATUS

Suspended - *April 30, 1972.*

n. DATE RIG RELEASED

Rig left standing over hole with drillpipe in the derrick.

o. HOLE SIZE

26" from 0 - 40'
17 1/2" from 40 - 1524'
12 1/4" from 1524 - 9475'

p. CASINGS

(1) Conductor Pipe 20" casing set at 40' below ground level.
Cemented with 136 sacks of Oilwell cement on December 15, 1971.

(2) Surface Casing

Ran 42 joints (1527.74') of new Mannesman, 13 3/8", J-55, 68#, 8RT, ST & C casing equipped with Baker guide shoe and Baker float collar, a Baker centralizer in the middle of Joint #1 and a Baker centralizer at the top of Joint #41, landed at 1524' (K.B.). Cemented with 1570 sacks of Oilwell cement plus 2% Calcium Chloride. Plug down 9:30 a.m., January 18, 1972 and bumped with 1300 psi. No cement returns - top of cement found 8 ft. below casing bowl flange. Added 8 sacks of Oilwell cement to fill this space. Casing pressure tested to 1500 psi before drilling out.

p. CASINGS

(3) Intermediate Casing

The casing was to be run to Total Depth of 9475' (TVD 9452.52') but casing would not go below 8792 (K.B.) Ran 218 joints of new Mannesmann 9 5/8", 40 to 47# (N-80) and 43.5 to 47# (S0095), LT & C casing equipped with Baker float shoe and Baker float collar, with six Baker centralizers. Casing set at 8786.65' (K.B.) (TVD 8770.57) and cemented with 1200 sacks of Oilwell cement plus 0.205% R5. Plug down 11:10 p.m., April 28, 1972 and bumped with 500 psi. Casing cut and hung in slips in head. B.O.P.'s installed but casing not pressure tested.

q. CEMENTING COMPANY

B.J. Service Division (Borg-Warner Canada Limited)

r. MUD COMPANY

Baroid of Canada

s. MUD LOGGING COMPANY

Baroid of Canada

t. LOGGING COMPANY

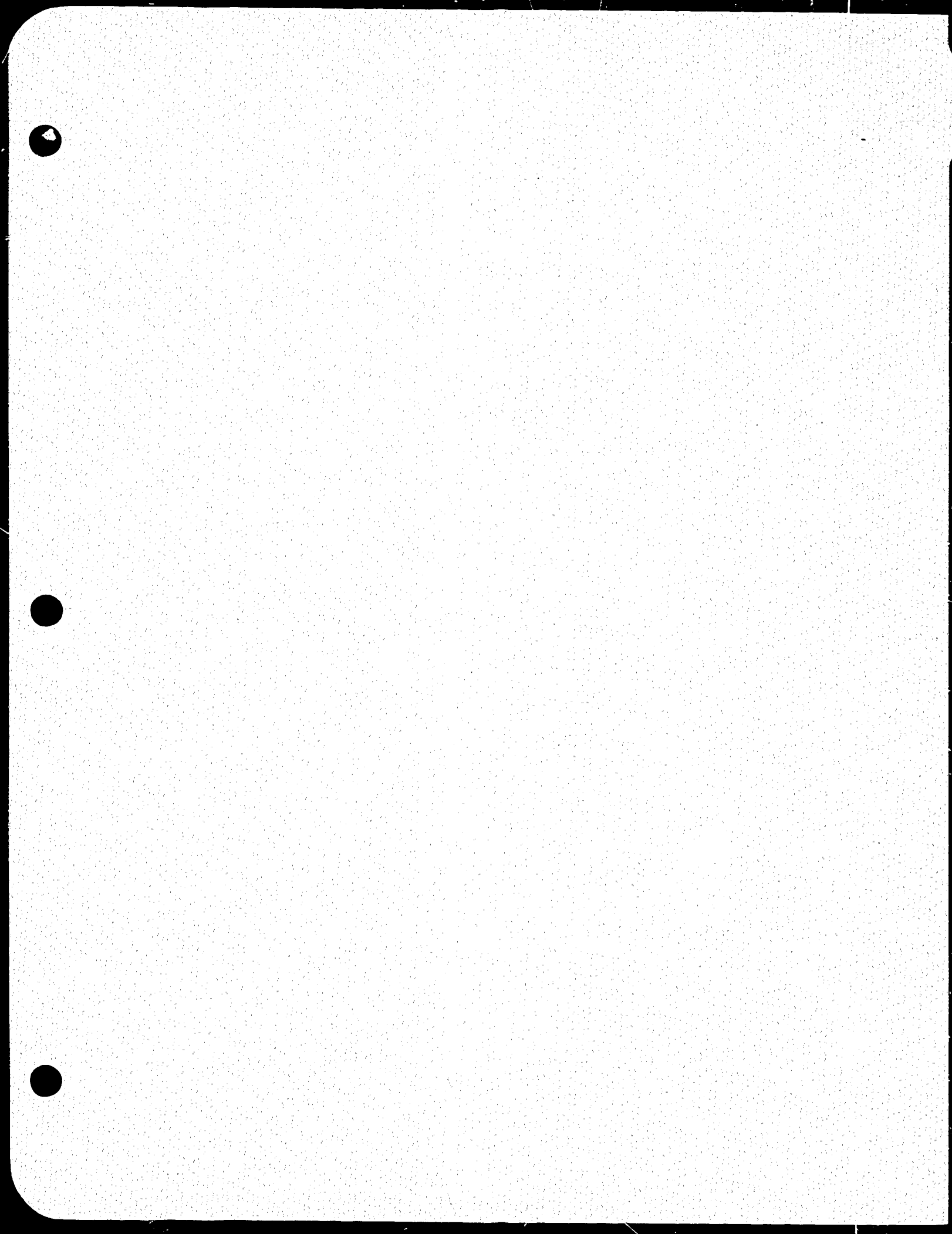
No logs run to date as per Government and partner approval. Open-hole logs to be run below intermediate casing and radioactive logs to be run throughout intermediate casing at a latter date. Schlumberger portable logging unit on location.

u. DRILLING SUPERVISION

Chas. Schneider

v. GEOLOGIST

H.R. Morris



UNION OIL COMPANY OF CANADA LIMITED
WELL PROGNOSIS

WELL

UNION AMOCO McPHERSON B-25

AFE #48507

TIGHT HOLE - All information will be kept confidential with the exception of the depth - which is released weekly by the Dominion Government.

LOCATION

Unit B, Section 25

Grid Corner - 135°30'W., 67°20'N.

Seismic Reference - Shot point #85 on line CKD-024 at intersection with line CKD-042 between SP's #132 and #133.

Proposed location estimated at co-ordinates: 67°14'00.78"N.
135°34'22.37"W.

LAND HOLDINGS

Well located on Dominion of Canada Exploratory Permit #6239, Northwest Territories.

Interest - Amoco Canada Petroleum Co. (50%)*

Union Oil Company of Canada Limited (50%)

Companies hold adjoining Permits 6231 to 6239, comprising a total acreage holding of 397,308 acres. Well must be completed by October 31, 1972 to meet permit commitment.

* Aquitaine acquired a farmout from Amoco whereby Aquitaine will reimburse Amoco for its 50% share of well costs to earn 20% of the entire block of permits.

ELEVATION

Grd. 1594'(est.), K.B. 1610'(est.)

DRILLING CONTRACTOR

Peter Bawden Drilling Rig #2 - 1320 EU National diesel electric - depth capacity 18,000'.

PROPOSED DEPTH

The well will be drilled:

- (1) To total depth of 14,000'

or

- (2) To a depth estimated 12,300' to 12,800', sufficient to recover formation fluid in significant volumes from the dolomite above the sandstone unit at the base of the Mt. Kindle (Sandstone Marker at 10,835' in the IOE Stoney Well, 67°29'44"N., 135°22'46"W.)

or

- (3) Failing to recover fluid, to a depth 100' below the above Sandstone Marker (estimated 12,900')

whichever of these is shallower.

<u>FORMATION TOPS</u>	<u>DEPTH</u>	<u>SUBSEA</u>	<u>THICKNESS</u>
GLACIAL DRIFT	0	+ 1610	50'
LOWER CRETACEOUS			
Lower Sandstone Division	50	+ 1560	300'
UPPER DEVONIAN			
Imperial	350	+ 1260	8611'
MIDDLE DEVONIAN			
Canol	8961	- 7351	150'
Hume (Nahanni)	9111	- 7501	160'
Green Shale Marker	9271	- 7661	30'
Bear Rock (Landry)	9301	- 7691	2450'
SILURIAN - ORDOVICIAN			
Ronning (Mt. Kindle)	11751	-10141	1050'
Sandstone Marker (Base Mt. Kindle)	12801	-11191	1700'
CAMBRIAN	14501	-12891	

OBJECTIVES

The main reservoir prospects are reef dolomites and limestones or porous carbonate banks of the Middle Devonian and Upper Silurian - Ordovician. The well is located on a seismic anomaly interpreted as closure on a carbonate reef bank. The location is at the frontal crest of the reef build-up where the carbonates are expected to develop the best effective porosity. Immediately west of the location is an off-reef shale and thin limestone section 4500' thick which is interpreted to represent the Middle Devonian and Silurian - Ordovician.

HOLE SIZE AND CASING PROGRAM

<u>Depth</u>	<u>Hole Size</u>	<u>Casing</u>
0 - 60'	40"	32"
60' - 500'	26"	20"
500' - 2500'	17-1/2"	13-3/8"
2500' - 9200'	12-1/4"	9-5/8"
9200' - T.D.	8-3/4"	7"

DRILLING MUD PROGRAM

No definite mud program will be included in this prognosis. Properties to maintain good samples and clean gauge hole should be maintained from the base of the conductor pipe to total depth.

Following are a few points to assist in controlling the mud program:

1. No anhydrite or salt section is expected.
2. There could be a mud weight maintenance problem because of high silt and fine sandstone content of the Imperial formation, Upper Devonian (350' - 8961').
3. No lost circulation zones occurred in the closest well, IOE Stoney I-50. However, excellent porosity and permeability in the main objective Middle Devonian reef bank could present a lost circulation problem. The formation pressure in the Bear Rock formation was 4163 psi at a depth of 9837' in the Stoney well.

HOLE DEVIATION

Some difficulty in drilling straight hole is anticipated in the upper steeply dipping (40°) shale and fine sandstone beds of the Imperial formation. If the hole starts off in this upper section, deviation will be checked every 30' initially - increasing to 60' apart and then to a maximum interval of 250' if possible.

HYDROCARBON LOGGING

A complete mud logging service by the most modern equipment will be required from 550' (base of 20" casing) to total depth.

Facilities are needed to obtain the following:

PPM log

- Direct determination of methane and gas chromatography for mud gas
- Hydrocarbon in cuttings
- Oil fluorescence in mud and cuttings
- H₂S detection in mud
- Temperature recovery of mud at flow line
- Daily log of all data
- Evaluation report of any show
- Instruments for measuring fluid resistivities

The PPM field log (enough copies for partners) should be mailed weekly accompanying the wellsite geologist's report to Union Oil in Calgary.

WELL SUPERVISION

The wellsite geology will be directed by a consultant who has at least ten years wellsite experience. Senior company exploration personnel will be present at the wellsite as required down to the base of the Imperial formation and will directly supervise at the wellsite the evaluation of the upper part of the objective Middle Devonian carbonates.

The wellsite geologist will report daily to the Union Oil office in Calgary as soon after 8:00 AM as possible. This daily report should be directed to W.D. Connolly - in his absence, G.P. Salisbury. FM radio communication is expected to be excellent from this location if the CNR completes a new tower in August as planned at Ft. McPherson located 35 miles from the rig. *A heavy telescope will be used to send reports to Calgary office*

A weekly summary of operations with sample descriptions and up-to-date data should be prepared by the geologist and sent to Union Oil, Calgary office with the final prints of the PPM log.

The wellsite geologist will have a code system available for use on radio reports following any commercial recovery of hydrocarbon on drill stem tests.

LOGGING PROGRAM

Two logging operations will be undertaken with Schlumberger equipment; the first run prior to running 9-5/8" casing at 9200' and the second at final total depth.

RUN #1 - in 12-1/4" hole (2500' to 9200')

Scale

2" & 5"	Dual Induction Laterolog with SP.
2" & 5"	Borehole Compensated Sonic Gamma Ray with Caliper.
5"	Microlog, if required, to detail any shallow gas horizon.

Log cased hole 0 to 2500' with gamma curve on sonic.

RUN #2 - in 8-3/4" hole (9200' to T.D.)

Scale

2" & 5"	DILL.
2" & 5"	BHCSGRC.
2" & 5"	Formation Density with Caliper.
2" & 5"	Sidewall Neutron.
5"	Lithology log.
	High Resolution Dipmeter.
	Sidewall core slicer or gun.

Run BHCSGRC tool first for the second run to check hole size. If the hole is badly washed out, then runs of the FD and SNP can be cancelled as they are meaningless under poor hole conditions.

Sidewall cores will be taken after logging runs if considered necessary by the wellsite geologist for future reservoir or lithologic determinations. If it is felt that the full core coverage and samples have revealed sufficient information, the sidewall coring program will be cancelled.

Resistivities of all DST fluid recoveries should be recorded on the log headings.

Instructions set out by Union's logging engineer regarding logging operation speed for the various tools and sensitivity scales should be observed closely by the logging contractor. Rerunning of any parts of a log which appear to be of poor quality should be run immediately.

No velocity survey has been planned if the Sonic log is run.

CORING

Estimate - 250'.

At least one full diamond core will be cut in the Hume, and another in the Bear Rock formation. These cuts will be made even if the Middle Devonian carbonates appear tight in cuttings. These will be taken for detail lithologic information as to content of reef-building organisms and positioning of the carbonates in a reef facies.

Core points will be chosen at the discretion of the wellsite geologist. In the Middle Devonian, cores will be cut after any hydrocarbon recovery on drill stem test.

After examination by the wellsite geologist, the cores should be shipped to Union Oil, Calgary office as soon as possible. The cores should not be chipped or broken at the wellsite. Representative samples of oil saturated core should be packaged in sealed bags and shipped in place with the entire core.

When boxed, the core should be photographed with Poloroid color film. These photographs should be sent in with the core description.

Sidewall cores can be taken after the logging if considered necessary by the wellsite geologist for future reservoir or lithologic determination. If it is felt that full core coverage and tests have revealed sufficient information, the sidewall coring can be cancelled.

TESTING

Estimate - 7 open hole tests.

An attempt will be made to test all porosity which in the opinion of the wellsite geologist, will produce hydrocarbon. The policy will be to test:

- (1) The first effective porosity in the Middle Devonian carbonates.
- (2) Any zone of effective porosity separated from the previous zones by 300' or more of impermeable strata.
- (3) Any zones that register hydrocarbon in the PPM log.

Test procedures for VO and shut-in times will be called at the discretion of the wellsite geologist and engineer.

FLUID AND GAS SAMPLES

Each company will provide sample containers for whatever fluids and number of samples they require.

For Union Oil Company

Three quart bottles from each test of water (top of tool).
Two - five gallon jerry cans for oil samples.
Two quarts of uncontaminated make-up water used for drilling mud.
One quart of drilling mud from the flowline immediately prior to testing and logging tops.
Three gas bomb samples taken for any gas recovery.

One sample of water or oil (top of tool) should be shipped to the Core Lab. in Calgary as soon as possible. (The same should apply to gas bombs.)

One sample kept at location for resistivity reading by loggers and recorded on log heading.

WELL CUTTINGS

Union Oil - two sets (washed and dried) - one in glass bottles and one in paper sacks (for future trades). (10' intervals surface to TD)

Amoco - one set in glass bottles. (10' intervals surface to TD)

- one set unwashed samples in cloth bags. (10' intervals 0 to TD)
(to be delivered to Aquitaine)

One Union set and the Amoco set to be distributed from wellsite at intervals not greater than one week.

The following samples are to be collected in 10' intervals and distributed after completion of well (washed and dried in cloth bags and tied in 100' groups). Send to: Geological Survey of Canada
Institute of Sedimentary and Petro. Geology
3303 - 33 Street N.W.
Calgary, Alberta

SPECIAL SAMPLING

5# of washed samples at 30' intervals - to be put in cloth bags and shipped to:
Union Oil Laboratory
Royal Bank Building
335 - 8th Avenue S.W.
Calgary, Alberta

AMOCO CANADA PETROLEUM COMPANY LTD

WELL INFORMATION REQUIREMENTS

WELL Amoco Union A-1 McPherson
 LOCATION 7° 14' 00.78" N.
135° 34' 22.37" W.

INTEREST _____
 TYPE Wildcat
 DEPTH 14,000'

The following data is requested:

Following data to be supplied as soon as possible after drilling:

<u>Prior to Spud</u>	<u>Copies</u>		
	<u>Req'd</u>	<u>Sent</u>	<u>Rec'd</u>
Well Cost Estimate	<u>2</u>	_____	_____
Drilling & Comp Prog.	<u>2</u>	_____	_____
Geological Prognosis	<u>2</u>	_____	_____
Survey & App to Drill	<u>2</u>	_____	_____
Drilling Contract	<u>2</u>	_____	_____
Rig Description	<u>2</u>	_____	_____
24 Hr. Spud Notice	<u>2</u>	_____	_____

	<u>Copies</u>		
	<u>Req'd</u>	<u>Sent</u>	<u>Rec'd</u>
Final Print of Logs	<u>2</u>	_____	_____
Final Analysis of:			
Cores	<u>2</u>	_____	_____
Oil, Gas or Water	<u>2</u>	_____	_____
DST Report & Charts	<u>2</u>	_____	_____
Final Drilling Report			
to include: (as marked)	<u>2</u>	_____	_____
Casing Report			
Cored Intervals & Recovery			
List of Logs with Intervals			
Completion/Abandonment Data			
Formation Tops			
Sample and Core Description			

During Drilling

Daily Drilling Reports	<u>2</u>	_____	_____
Daily Geological Reports	<u>2</u>	_____	_____
Weekly Geological Review	<u>2</u>	_____	_____
Advice of oil/gas shows	<u>2</u>	_____	_____
Notice of Intention to log	<u>2</u>	_____	_____
Field Print of Int. Logs	<u>2</u>	_____	_____
Preliminary Copies:			
Core & Fluid Analysis	<u>2</u>	_____	_____

Production Test Data	<u>2</u>	_____	_____
Gov't New Well Report	<u>2</u>	_____	_____

Special Requirements:

On Reaching Objective

Field Prints of Final Logs	<u>2</u>	_____	_____
Notice of intention to:			
Complete	<u>2</u>	_____	_____
Abandon	<u>2</u>	_____	_____
Washed and Dried Samples	<u>1 set</u>	_____	_____

INFORMATION TO BE ADDRESSED OR TELEPHONED AS APPLICABLE TO:

W. C. Ayerton Phone _____
 District Geologist Office: 267-0548
 Aft.Hrs: 245-1964

OR D. H. Lavoie Phone _____
 Office: 267-0627
 Aft.Hrs: 289-2884

Daily Phone Reports to: R. J. Look

Phone: 267-0727

Information for the above is to be addressed to: Amoco Canada Petroleum Company Ltd.
 Bentall Building, 444 - 7th Ave. S. W.
 Calgary 2, Alberta
 Attention: Jim Look

GOVERNMENT - DOMINION OF CANADA

WELL INFORMATION REQUIREMENTS

WELL: UNION AMOCO McPHERSON B-25

LOCATION: 135° 30' W., 67° 20' N.

The following data is required:

COPIES

- | | |
|---|---|
| 3 | Survey and Application to Drill |
| 1 | Weekly Drilling Report (by telephone every Tuesday) |
| 2 | Field Prints |
| 3 | Final Prints |
| 3 | Core Analysis |
| 3 | Oil, Gas or Water Analysis |
| 3 | Well History |
| 1 | Legible copy of the Tour Report (mailed weekly) |

INFORMATION TO BE ADDRESSED OR TELEPHONED AS APPLICABLE TO:

Mr. Morris Thomas
District Engineer
Northern Economic Development Branch
Department of Indian Affairs and Northern Development
Oil and Minerals Division
112 - 11th Avenue S.E.
Calgary, Alberta
Telephone - 264-0201

(Mr. Thomas will be setting up the District Office in Inuvik sometime in November. Reports are to be made through this District Office when operational.)

UNION OIL COMPANY OF CANADA LIMITED

WELL INFORMATION REQUIREMENTS

WELL: UNION AMOCO McPHERSON B-25

LOCATION: 135° 30' W., 67° 20' N.

The following data is required:

COPIES

25	Geological and Engineering Prognosis
2	Application to Drill & Licence
2	Survey Plats
1	Written Daily Drilling Report
2	Log Field Prints
2	Preliminary Core Analysis
4	PPM Log
4	Final Log Prints
4	Oil - Gas - Water - Core Analyses
4	DST Charts
4	Completion Reports
2	Abandonment Reports

All information to Aquitaine Company will be directed through the Exploration Department of Amoco Canada Ltd.

Aquitaine Company of Canada Ltd.
540 - 5 Avenue S.W.
Calgary, Alberta

WELL NAME: Union Amoco McPherson B-25

1. INFORMATION REQUIRED PRIOR TO DRILLING

No. of copies

Survey Plat
Application for Well License
Drilling Program and Geological Prognosis
Cost Estimate or A.F.E.

1
1
2
2

2. INFORMATION REQUIRED DURING AND AFTER DRILLING

Daily or Weekly Written Reports
Logs and Surveys - Field prints
 - Final prints
Core and Sample Descriptions
Drill Stem Test Reports and Charts
Core Analyses - Preliminary
 - Final
Oil, Water and Gas Analyses
Application to Abandon (Cons. Bd. Forms)
New Well Report (Cons. Bd. Forms)
Final Completion or Abandonment Report

2
2
3
3
3
2
3
3
1
1
3

3. NOTICES REQUIRED

..... hours' notice of intention to spud.
Immediate notice of oil or gas shows.
...²⁴..... hours' notice of intention to log, core or test.
...⁴⁸..... hours' notice of completion or abandonment.

4. FORMATION SAMPLES REQUIRED

unwashed samples

..10.. foot samples from ...0' to T.D..) in cloth/~~xxxxxx~~ bags/~~xxxxxxxxx~~?
..... foot samples from to) will containers be supplied?

Please direct the above information to: Geological Information and Samples

Name: A. F. Jacobs Tel. 267-9342 (off.) 244-3402 (res.)
H. Briotet 267-9212 (off.) 287-0888 (res.)

Aquitaine requirements continued....

5. DAILY TELEPHONE REPORTS

Daily Reports should be telephoned to:

Name:	<u>usan Shuflita</u>	Tel. No. <u>267-9364</u>	<u>(off.)</u>	<u>(res.)</u>
Name:	<u>W. M. Bogert</u>	Tel. No. <u>267-9388</u>	<u>(off.)</u>	<u>242-6049</u> (res.)
Name:	<u>R. J. Rousseau</u>	Tel. No. <u>267-9406</u>	<u>(off.)</u>	<u>271-6900</u> (res.)

6. ADDITIONAL REQUIREMENTS AND REMARKS

Information in 1, 2, and 3 above to be sent to Aquitaine Company of Canada
Ltd., Attention: W. M. Bogert, 2000 Aquitaine Tower, 540 - 5 Avenue S.W.,
CALGARY, Alberta.

N.B. This form is for departmental use only and does not in any way modify the terms of any applicable agreement or contract.

Department of
Indian Affairs and
Northern Development



see your copy
NGV 1 1971
Ministère des
Affaires indiennes et
du Nord canadien

112 - 11th Avenue S.E.,
Calgary 21, Alberta,
October 29, 1971

our file / notre dossier
your file / votre dossier

Union Oil Company of Canada Ltd.,
P.O. Box 999,
Calgary 2, Alberta.

Attention: Mr. Eric J. Connor

Dear Sir:

Union Amoco McPherson B-25

Your letter of October 12, 1971, with which you enclosed an Application for a Drilling Authority for the above named well, is acknowledged, and we are returning one copy of the approved application which has been allotted Drilling Authority No. 545. Please observe the conditions of approval listed on the sheet attached to the Drilling Authority.

Also enclosed is a leaflet, for posting in the Doghouse, pertaining to the preparation of the Daily Tour Reports; a copy of the format for the preparation of the Well History Report; a circular letter dated August 25, 1971 pertaining to the reporting of oil and gas shows; and a copy of our core requirements with a small supply of the Core and Sample Report form.

If you have not already done so, would you please apply to Mr. D. J. Gee, Regional Manager, Water, Forests and Land Division of this Department, at Box 1500, Yellowknife, Northwest Territories, for the permits and instructions necessary for this operation.

Yours very truly,

M. D. Thomas

M. D. Thomas
District Conservation Engineer
District 2

Encls.
/mj

Page 2 - Well History Report set-up.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:-

Name and number of well UNION AMOCO McPHERSON B-25

Location: Unit B Section 25 Grid 67°20'N., 135°30'W.
Latitude 67°23'00"N. Longitude 135°34'22.37"W.
Unique Well Identifier 3003-572013-2301
Universal Well Location Reference 67°23'55"N., Long. 135°37'22"W.

Elevation: Ground 1560' (nat.) K.B. feet above sea-level.
Well is expected to produce from Devonian and Silurian-Ordovician formation at a depth of about 9250 and 12,800 feet. Expected total final depth 14,000 feet.
Area assigned to well (For District Conservation Engineer's use only)

Permit No. 6239 Lease No. Acreage
Permitter, licensee, or lessee Amoco Canada Petroleum Co. Ltd., Union Oil Company of Canada Ltd.
Explanatory Licence No. 1429 & 1431
Surface owned by Crown or Crown (If alienated submit name and address of owner and occupant.)

Petroleum and natural gas rights owned by Crown
We propose to use the following strings of casing, either cementing or landing them as indicated below:-

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 30"		Conductor	New	60'	100
2. 20"	94	B-40	New	300'	700
3. 13-3/8"	68	K-55	New	2000-2500'	2000-2495
4. 9-5/8"	40.43.5	K-60. 500 95	New	9200-11000'	1500
5. (if required)	47				

Expected water, gas, and oil horizons and type of control equipment.
Middle Devonian and Silurian-Ordovician, control by adequate mud weight and separator and hydril BOP's.

Well will be drilled with Rotary Rig No. 2 by Peter Bowden Drilling Services Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:- Contractor's Business Licence No.
At well 335-8 Avenue SW, Calgary At registered office, Eric J. Connor
Address 335-8 Avenue SW, Calgary Address 335-8 Avenue SW, Calgary, Alberta.
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at Calgary, this 29th day of October 1971
Signed by Manager of Production Operations Company Union Oil Company of Canada Ltd.
Title Operator's Licence No. 1429

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:

Please see attached sheet for Conditions of Approval.

Dated 29th October 1971

Eric J. Connor
District Conservation Engineer

Forms to be submitted to District Conservation Engineer,
Department of Indian Affairs and Northern Development.

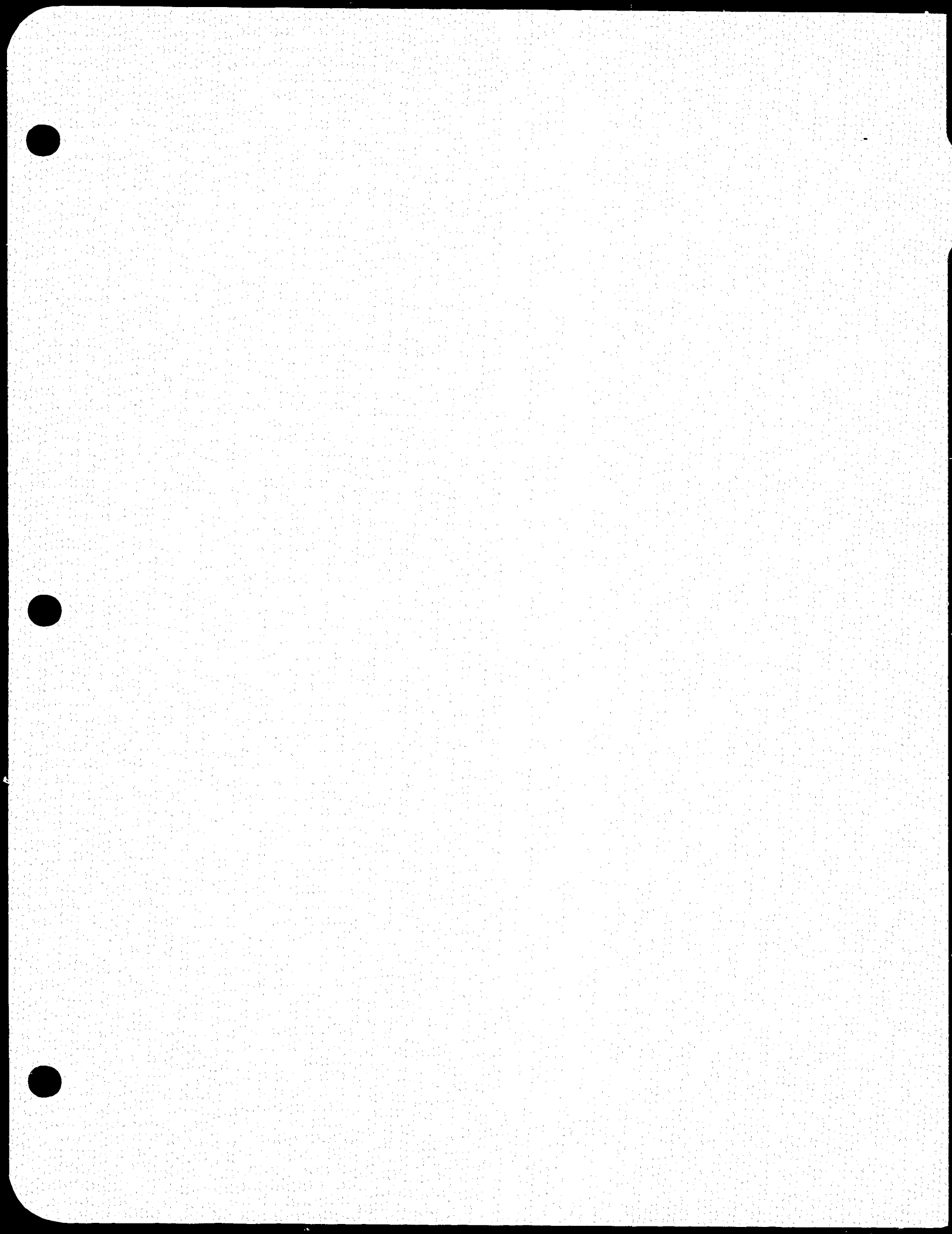
CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY NO. 545
FOR WILSON MOCO McPHERSON B-25 issued 29th Oct. 1971

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates. ✓
- Rel* 2. The Company will submit to this office, on Tuesday of each week/daily, the latest reports received by radio on the progress of the well. ✓
3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Any additional strings of casing must be approved by the District Conservation Engineer prior to running.
6. The 32-inch, 20-inch and 13 3/8-inch strings of casing shall be cemented to surface.
7. Before spud date, a complete set of corrected drawings for the DCP stack and manifold must be submitted to the District Conservation Engineer. ✓

*Can place
in 264,0201
Calgary.*

M. D. Thomas

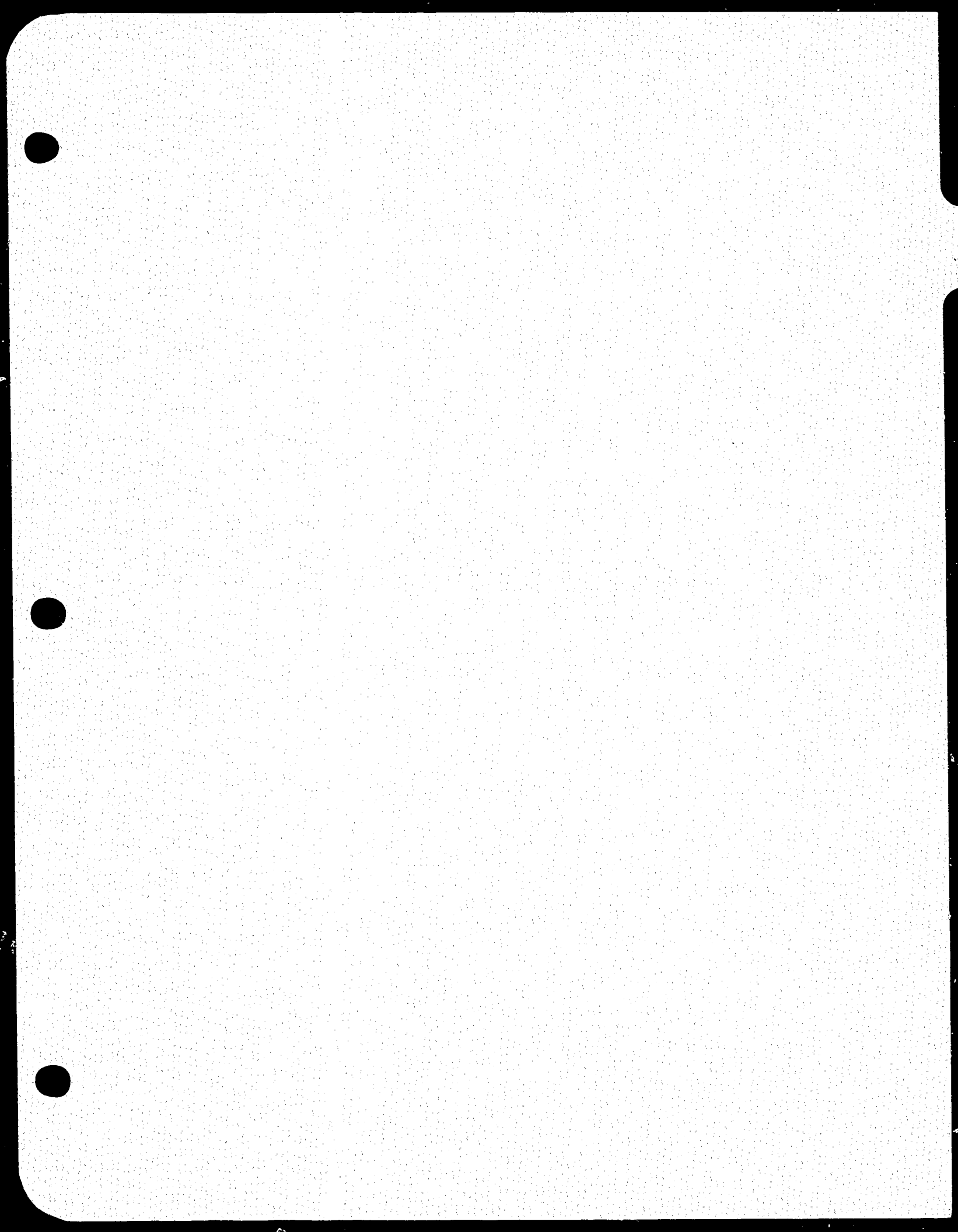
M. D. Thomas
District Conservation Engineer
District 2



UNION AMOCO McPHERSON B-25

SUMMARY OF GEOLOGICAL FORMATION TOPS

<u>Formation Tops</u>	<u>Depth</u>	<u>TVD</u>	<u>Subsea</u>
Glacial Depth	—	—	—
Lower Cretaceous	20'	20'	+1595'
Upper Devonian (Imperial Formation)	620'	620'	+ 995'
Base of Permafrost	1300'	1300'	+ 315'
Fault	4800'	4793'	-3178'
Fault	7420'	7407'	-5792'
Fault	8860'	8844'	-7229'
Fault	9115'	9096'	-7481'
Suspended T.D.	9475'	9452.5'	-7837.5'
9 5/8" Casing T.D.	8786.65'	8770.57'	-7155.57'



UNION AMOCO McPHERSON B-25

Latitude 67° 14' 00.78" N.

Longitude 135° 34' 22.37" W.

NORTHWEST TERRITORIES

CANADA

SAMPLE DESCRIPTIONS

0-9475' T.D.

UNION AMOCO MCPHERSON B-25

SAMPLE DESCRIPTION

- 0' - 20' Distance from ground to kelly bushing.
- 20' - 30' Sandstone, light grey to red, fine grained, quartz with minor amounts of light colored chert and white chalcedony, angular with many crystal faces, well sorted, in part lightly coated with a ferroginous coating, in part argillaceous-silica-hematite cemented.
- 30' - 40' Sandstone, red, fine grained, quartz with numerous grains of white chert and white, fine grained gypsum, angular with many crystal faces, well sorted, with individual sand grains speckled with spots of red hematite, in part hematite and silica cemented, with good porosity.
- 40' - 60' No samples from base of conductor pipe hole.
- 60' - 70' Sandstone, white to orange to red, quartz with numerous grains of white chert and white, fine grained gypsum, angular with many crystal faces, well sorted, in part with fair porosity, in part well cemented with red, argillaceous hematite; with a few thin interbeds of yellow argillaceous limonite and red argillaceous hematite, with black carbonaceous inclusions. One grain with pyrite crystal coating.
- 70' - 80' Sandstone, white to red, quartz with numerous grains of white chert and white, fine grained gypsum, angular, well sorted, in part with fair porosity, in part well cemented with argillaceous hematite; grading to arenaceous, argillaceous hematite. One fracture infilled with white, finely crystalline gypsum.
- 80' - 90' Sandstone has a few grains of hard coal.
- 90' - 100' Sandstone, white and orange, fine grained, quartz, in part with grains of white, finely crystalline gypsum, with a few carbonaceous specks, in part porous, with abundant red, argillaceous, slightly calcareous hematite cement; interbedded with yellow to red, limonitic and hematitic, arenaceous, indurated shale. One fracture filled with white, finely crystalline calcite. Numerous carbonaceous specks in shale.
- 100' - 110' As above sample.

- 110' - 120' As above sample.
- 120' - 130' The sandstone contains a few grains of chert and quartz, coarse grained, well rounded.
- 130' - 140' As above sample 120' - 130' with a few chips of shale, grey-brown, arenaceous with some imbedded sand being magnetite.
- 140' - 150' As above sample 130' - 140'.
- Base of Oxidized Zone 150'
- 150' - 160' Shale, grey, micromicaceous, in part silty; with interbeds of silt, buff-brown, speckled with black magnetite sand grains, arenaceous.
- 160' - 190' Shale, grey, micromicaceous grading to silt, grey, argillaceous.
170' - 180' with a few chips with fine carbonaceous specks. Several chips with dusty fine crystalline pyrite.
- 190' - 200' Sandstone, grey, fine to medium grained, quartz with a minor amount of light colored chert, angular, medium sorted, with abundant shale cement with a few grains of glauconite.
- 200' - 210' As above sample with numerous fine carbonaceous specks.
- 210' - 220' Sandstone, grey, fine to medium grained, quartz with a minor amount of light chert, and fine carbonaceous specks, subangular, medium sorted, with abundant grey argillaceous cement; with thin interbeds of shale, grey, micromicaceous grading to silt, grey, argillaceous. A few patches of pyrite crystals in the sandstone.
- 220' - 230' As above sample but shale content about 50%.
- 230' - 240' As above sample 220' - 230' with a few laminae of black carbonaceous shale.
- 240' - 250' As above sample 230' - 240' with a few grains of glauconite and black carbonaceous material.
- 250' - 260' Sandstone, grey, fine to medium grained, quartz with a minor amount of light colored chert and traces of glauconite, and numerous carbonaceous specks, subangular, poorly sorted, abundant grey argillaceous cement; with thin interbeds of grey shale and silt, grey, argillaceous, with carbonaceous specks, in part micaceous.

- 250' - 260' As above sample.
- 260' - 290' As above sample but shale and silt form 60% of sample.
- 290' - 330' Shale, grey, micaceous grading to silt, grey, micaceous, argillaceous. A few black carbonaceous wood traces.
300' - 330' A few chips of ironstone, buff, silty, finely crystalline.
- 330' - 380' Shale, dark grey, micaceous, with minute specks of pyrite interbedded with shale, grey, slightly bentonitic.
350' - 380' A few chips of ironstone, buff, finely crystalline. A few chips of coal and carbonaceous material.
- 380' - 410' Shale (70%), grey to dark grey, micaceous, in part silty with interbeds of sandstone (30%), grey, fine grained, quartz with a few carbonaceous grains and a few glauconite grains, angular, well sorted, cemented with grey clay.
- 410' - 450' Shale (60%), grey, bentonitic to dark grey, micromicaceous; with interbeds of sandstone (40%), grey, fine grained, quartz with traces of light green chert, subangular, well sorted, very argillaceous.
- 450' - 470' Shale (40%), grey, bentonitic; sandstone (40%), grey, fine grained, quartz with minor amount of light grey-green chert, subangular, well sorted, very argillaceous; silt (20%), dark grey, micaceous, with carbonaceous specks.
- 470' - 480' Sandstone, grey, fine grained, quartz with a minor amount of light grey-green chert, subangular, well sorted, very argillaceous, with numerous carbonaceous specks.
- 480' - 490' Sandstone (60%), fine grained, quartz, with a minor amount of light grey-green chert, subangular, medium sorted, with carbonaceous specks, argillaceous cement; silt (30%), dark grey, micaceous, carbonaceous specks; shale (10%), grey, bentonitic.
- 490' - 500' Sandstone (60%), grey, very fine grained, quartz with light grey-green chert and carbonaceous specks, subangular, well sorted, argillaceous cement; shale (40%), grey, bentonitic.
- 500' - 510' Sandstone (60%), grey to buff, very fine grained, quartz with carbonaceous specks and minor amount of light colored chert, subangular, well sorted, argillaceous cement part of which has minor oil staining, porosity non-effective; shale (40%), grey, micromicaceous, in part silty.

- 510' - 520' As above sample but no oil staining.
- 520' - 530' As above sample 500' - 510' with partial oil staining and non-effective porosity.
- 530' - 550' Sandstone (40%), grey, very fine grained, quartz and light colored chert, in part with carbonaceous specks, subangular, well sorted, argillaceous cement; shale (30%), grey to dark grey, bentonitic and in part carbonaceous; silt (10%), grey, indurated.
- 550' - 560' Shale (60%), grey bentonitic; silt (40%), grey, micromicaceous, indurated.
- 560' - 580' Sandstone (70%), grey, fine grained, quartz with minor amount of light colored chert and carbonaceous specks, subangular, well sorted, argillaceous cement with trace of oil staining in non-effective porosity; shale (30%), grey, micromicaceous, in part bentonitic, in part silty, a few carbonaceous specks and fine pyrite crystals.
- 580' - 590' Sandstone (50%), grey, fine grained, quartz and light colored chert, subangular, well sorted, argillaceous cement; silt (30%), dark grey, indurated, with dustlike pyrite crystals; shale (20%), grey, micromicaceous.
- 590' - 620' Sandstone (50%). grey, fine to medium grained, quartz and light colored chert with trace of glauconite, subangular, well sorted, argillaceous cement; shale (40%), grey to buff, micromicaceous; ironstone (10%), buff, lithographic.
600' - 610' Sample burnt while drying.

Imperial 620'

- 620' - 630' Sandstone (60%), dark grey, fine to medium grained, quartz with light colored chert, with carbonaceous specks and sericite mica, subangular, well sorted, pyrite and argillaceous cement; shale (40%), grey, bentonitic.
- 630' - 660' Sandstone (60%), as above sample; silt (40%), dark grey, with sericite mica and dustlike pyrite crystals, with carbonaceous specks, indurated. A few chert pebbles in 630' - 640'.
630' - 640' Sample burnt while drying.

Lost circulation at 640 ft.

- 660' - 680' Silt (40%), dark grey, with cericite mica and dustlike pyrite crystals, indurated; shale (40%), grey-buff, micromicaceous; sandstone (20%), dark grey, fine grained, quartz with light colored chert, angular, well sorted, argillaceous cement. A few chips of ironstone, buff, lithographic.
- 680' - 690' Silt (70%), dark grey, with sericite mica, slightly carbonaceous, indurated, in part arenaceous; shale (30%), black, micromicaceous.
- 690' - 700' Silt, light grey to grey, micaceous, argillaceous, in part indurated, with fracture coated with pyrite crystals. A few small broken chert granules.
- 700' - 730' Silt (80%), as above sample; shale (20%), dark grey, micromicaceous.
- 730' - 740' Sandstone (40%), grey to buff, fine grained, quartz with light colored chert and a few carbonaceous specks, subangular, well sorted, argillaceous and lime cemented; silt (40%), grey, micaceous, argillaceous, indurated; shale (20%), grey with a few fine carbonaceous specks.
- 740' - 760' Sandstone (50%), grey, fine to medium grained, quartz with light colored chert and a few carbonaceous specks, subangular, medium sorted, argillaceous cemented; shale (50%), grey, micromicaceous, with minute carbonaceous specks.
- 760' - 770' Sandstone (70%), grey to dark grey, very fine to medium grained, quartz with light colored chert and numerous carbonaceous specks, subangular, medium sorted, argillaceous cement; shale (30%), dark grey, micromicaceous, in part silty.
- 770' - 780' As above sample 760' - 770' but sandstone (50%); shale (50%).
- 780' - 820' Sandstone (80%), grey, fine grained, quartz and light colored chert, subangular, well sorted, argillaceous cement, with a few carbonaceous specks; shale (20%), dark grey, micromicaceous, with one chip showing imbedded, angular, coarse grained, chert grains. Several chips of ironstone, brown, lithographic in the 780' - 790' sample.
- 820' - 850' Sandstone (50%), as above; silt (20%), dark grey, micaceous, indurated, with carbonaceous specks; shale (20%), grey and dark grey, micaceous. A few chips of ironstone, buff, lithographic.

- 850' - 860' Silt (60%), dark grey, micaceous, with carbonaceous specks, indurated; shale (40%), grey to dark grey from carbonaceous specks, micaceous. Several chips of ironstone, buff, lithographic.
- 860' - 870' Sandstone (50%), grey, fine to medium grained, quartz with light colored chert, subangular, medium sorted, argillaceous cement; silt (25%), dark grey, micaceous, indurated, with very fine pyrite crystals; shale (25%), grey, micromicaceous.
- 870' - 880' Silt (50%), as above; shale (50%), as above. Several chips of ironstone, dark brown, lithographic.
- 890' - 910' Sandstone (60%), dark grey, fine grained, quartz with light colored chert and carbonaceous specks, subangular, well sorted, indurated, argillaceous cement; shale (40%), grey and dark grey, micromicaceous with a few carbonaceous traces. A few bedding planes show fine pyrite crystals.
- 910' - 940' Shale (60%), grey and dark grey, micromicaceous, with a few carbonaceous specks; silt (40%), grey to dark grey, micaceous, indurated.
910' - 920' - a few chips of ironstone, brown, lithographic.
930' - 940' - one calcite-filled fracture.
- 940' - 950' Shale (90%), dark grey, micromicaceous; sandstone (10%), dark grey, fine grained, quartz with carbonaceous specks, subangular, well sorted, argillaceous and silica cemented.
- 950' - 960' Sandstone (60%), dark grey, very fine grained, quartz, micaceous, with carbonaceous specks, subangular, well sorted, silica and argillaceous cement; shale (40%), grey and dark grey, micromicaceous.
- 960' - 1000' Shale, grey to dark grey, micromicaceous, in part silty.
980' - 990' - a few chips of ironstone, brown, lithographic.
- 1000' - 1010' Sandstone (50%), grey, fine grained, quartz-light colored chert-carbonaceous specks, angular, well sorted, silica cemented grading to silt (30%), grey, indurated; shale (20%), grey, micromicaceous.
- 1010' - 1030' Sandstone (60%), grey, fine to medium grained, quartz-light colored chert, in part micaceous or carbonaceous, subangular, medium sorted, silica with some buff siderite cement grading to silt (30%), grey, micromicaceous, indurated, with carbonaceous specks; shale (10%), grey to dark grey, micromicaceous. A little ironstone, buff, lithographic.

- 1030' - 1140' Silt (60%), grey to dark grey, micromicaceous, indurated; shale (40%), dark grey and grey, micromicaceous. A few chips of ironstone, buff, sublithographic. 1080' - 1090' A fracture filled with white, finely crystalline dolomite. Sample 1110' - 1120', a broken chert pebble.
- 1140' - 1150' Sandstone (50%), dark grey, very fine grained, quartz - light colored chert - carbonaceous specks, subangular, well sorted, silica cemented with numerous fine pyrite crystals and one fracture filled with pyrite; shale (50%), grey, micromicaceous.
- 1150' - 1160' Shale (70%), grey, micromicaceous; silt (30%), grey, indurated with several chips showing buff, siderite cement.
- 1160' - 1170' Shale, grey - dark grey - black, micromicaceous, in part slightly silty.
- 1170' - 1180' Shale (70%), dark grey, micromicaceous; silt (30%), grey to dark grey, micaceous and carbonaceous specks, silica indurated. A few chips of ironstone, dark brown, sublithographic.
- 1180' - 1190' Silt (50%), grey, indurated, micromicaceous, with carbonaceous specks; shale (50%), grey to dark grey, micromicaceous. Several chips of ironstone, brown, sublithographic.
- 1190' - 1210' Shale (60%), grey to dark grey, micromicaceous; silt (40%), grey, indurated, micaceous grading to a few chips of sandstone, grey, very fine grained, quartz and carbonaceous specks, subangular, well sorted, silica and argillaceous cement; ironstone (10%), brown, sublithographic.
- 1210' - 1230' Shale (60%), grey to dark grey, micromicaceous; sandstone (40%), grey to dark grey, very fine grained, subangular, well sorted, silica - pyrite - argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 1230' - 1240' Shale (70%), grey to dark grey, micromicaceous; sandstone (30%), grey, very fine to fine grained, quartz, carbonaceous, subangular, well sorted, silica cemented, with one calcite-filled fracture. A few chips of ironstone, brown, sublithographic.
- 1240' - 1260' Sandstone (50%), dark grey, very fine grained, quartz and carbonaceous specks, subangular, well sorted, silica and argillaceous cement with one fracture filled with anhydrite, buff, lithographic; shale (50%), grey, micromicaceous.

- 1260' - 1270' Sandstone (45%), as above sample; shale (45%), as above sample; ironstone (10%), brown, sublithographic. A few fractures filled with anhydrite, buff, lithographic and finely crystalline. One fracture filled with calcite.
- 1270' - 1290' Shale (70%), grey to dark grey, micromicaceous, with fracture filled with buff, lithographic anhydrite; sandstone (30%), grey, very fine grained, quartz-opalized chert-carbonaceous specks, angular, well sorted, silica and argillaceous cement.
1280' - 1290' one calcite-filled fracture, and a few chips of ironstone, brown, lithographic.
- 1290' - 1310' Shale (30%), as above; sandstone (30%), as above; silt (30%), grey, micaceous, indurated; ironstone (10%), brown, sublithographic.
- 1310' - 1320' Sandstone (70%), dark grey, very fine grained, quartz-carbonaceous specks, subangular, medium sorted, silica and argillaceous cement; shale (30%), grey to dark grey, micromicaceous with several anhydrite, buff, lithographic fractures. A few chips of ironstone, brown, sublithographic.
- 1320' - 1330' Shale (70%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic. Fractures filled with anhydrite, or calcite or dolomite.
- 1330' - 1350' Shale (80%), grey to dark grey, micromicaceous; silt 20%), dark grey, micaceous, indurated. A few chips of ironstone, brown, sublithographic.
- 1350' - 1360' Shale (50%), as above; silt (50%), as above. Several fractures with anhydrite, white, lithographic.
- 1360' - 1400' Shale (60%), grey to dark grey, micromicaceous; silt (40%), (grading to a few chips of very fine grained sandstone), dark grey, micaceous, carbonaceous specks, indurated. Few chips ironstone, brown, sublithographic. White, finely crystalline anhydrite, filling fractures.
1380' - 1390' Fracture filled with white, isometric crystals.
- 1400' - 1410' Silt (60%), dark grey, micaceous, carbonaceous; shale (40%), grey to dark grey, micromicaceous.
- 1410' - 1420' Silt (55%), as above; shale (35%), as above; ironstone (10%), brown, sublithographic.
- 1420' - 1430' As above sample 1400' - 1410'.

- 1430' - 1440' Sandstone (35%), grey, fine grained, quartz - light colored chert - carbonaceous specks, subangular, well sorted, silica cemented; silica (35%), grey, micromicaceous, argillaceous; shale (30%), grey to dark grey, micromicaceous. Several pyrite-filled fractures in the sandstone.
- 1440' - 1470' Shale (70%), as above with anhydrite filled fractures; sandstone (30%), as above sample but very fine grained.
- 1470' - 1480' Shale (50%), grey to dark grey, micromicaceous; sandstone (50%), grey, very fine grained, quartz and carbonaceous specks, subangular, well sorted, silica cemented. A few chips of ironstone, brown, sublithographic.
- 1480' - 1490' Shale (80%), as above; sandstone (20%), as above but grading to fine grained.
- 1490' - 1510' Shale, grey to dark grey, micromicaceous, in part slightly carbonaceous and/or silty.
1500' - 1510' Several chips ironstone, brown, sublithographic
- 1510' - 1520' Shale (70%), grey to dark grey, micromicaceous, in part silty; sandstone (30%), dark grey, very fine grained, quartz-light colored chert-carbonaceous specks, angular, well sorted, silica and argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 1520' - 1530' Sandstone (60%), as above; shale (40%), as above.
- 1530' - 1550' Cement from 13 3/8" surface casing set at 1524'.
Shale (70%) grey to dark grey, micromicaceous with thin interbeds of silt (30%), grey, micaceous, indurated.
- 1550' - 1560' Shale (60%), grey, micromicaceous; silt (30%), dark grey, micaceous, with carbonaceous specks, indurated; ironstone (10%), buff - brown, sublithographic, pyritic. Several calcite-filled fractures.
- 1560' - 1570' Shale (80%), grey and dark grey, micromicaceous; silt (20%), grey.
- 1570' - 1580' Shale (70%), as above; silt (30%), as above.
- 1580' - 1590' Shale (50%), as above; silt (50%), grey, micaceous, with carbonaceous specks, indurated with imbedded very fine grained sand grains.

- 1590' - 1620' Shale (65%), grey and dark grey, micromicaceous; silt (25%), dark grey, micaceous, with carbonaceous specks, indurated; ironstone (10%), brown, sublithographic. Several chips of quartz, white, medium crystalline.
- 1620' - 1640' Shale (75%), as above; silt (25%), as above sample.
- 1640' - 1650' Silt (75%), dark grey, micaceous, with a few carbonaceous specks, indurated; shale (25%), dark grey, in part slightly carbonaceous, micromicaceous.
- 1650' - 1660' Silt (50%), as above sample grading to; sandstone (25%), grey, very fine grained, quartz and light colored chert, subangular, well sorted, silica cemented; shale (25%), grey to dark grey, micromicaceous.
- 1660' - 1670' Silt (60%), as above sample grading to; sandstone (10%), as above; shale (30%), as above.
- 1670' - 1680' Shale (70%), grey to dark grey, micromicaceous; silt (30%), dark grey, micaceous, with a few carbonaceous specks, indurated.
- 1680' - 1710' Silt (65%), grey, micaceous, indurated with imbedded grains of very fine grained sand; shale (35%), grey, micromicaceous.
- 1710' - 1760' Sandstone (60%), grey, very fine grained, quartz with light colored chert, subangular, medium sorted with imbedded grains of fine grained sand, grading to; silt (20%), dark grey, micaceous, carbonaceous; shale (20%), grey, micromicaceous. A few chips of ironstone, brown, sublithographic. Several chips of calcite fracture filling.
1730' - 1740' Several chips of anhydrite, white, very finely crystalline, filling fractures.
- 1760' - 1770' Shale (40%), grey to dark grey, micromicaceous; silt (40%), grey, micaceous, indurated; sandstone (20%), as above sample.
- 1770' - 1790' Sandstone (60%), grey, very fine grained with imbedded grains of fine grained sand, quartz with light colored chert, subangular, medium sorted silica and argillaceous cement; shale (40%), grey, micromicaceous, in part silty.
- 1790' - 1810' Shale, grey to dark grey, micromicaceous, in part silty with a few thin lenses with dustlike pyrite crystals.
- 1810' - 1820' Silt (80%), grey, micaceous, indurated; shale (20%), grey, micromicaceous. Several chips of silt show fine pyrite crystals.

- 1820' - 1830' Shale (50%), grey, micromicaceous; sandstone (50%), grey, very fine grained, quartz and light colored chert with a few carbonaceous specks, subangular, medium sorted, silica and argillaceous cement.
- 1830' - 1840' Sandstone (40%), grey, fine to coarse grained, quartz with light colored chert (including pale green), subrounded, poorly sorted, silica and argillaceous cement; silt (40%), dark grey, micaceous, indurated; shale (20%), dark grey, micromicaceous.
- 1840' - 1850' Sandstone (40%), as above with more coarse grains of chert, in part ironstone cemented; silt (30%), as above; shale (30%), grey to dark grey, micromicaceous.
- 1850' - 1870' Shale (60%), grey to dark grey, micromicaceous with a few fractures filled with anhydrite, buff, lithographic; silt (20%), dark grey, micaceous, indurated; sandstone (20%), buff and grey, fine grained with chert granules, subrounded, poorly sorted, silica, ironstone and argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 1870' - 1880' Siltstone (80%), dark grey, micaceous, with carbonaceous specks, indurated (in part with ironstone); shale (20%), grey, micromicaceous.
- 1880' - 1890' Shale (60%), grey to dark grey, micromicaceous with a few carbonaceous specks and a few chips with dustlike pyrite; silt (20%), dark grey, micaceous, indurated; sandstone (20%), grey, fine to medium grained, quartz with light colored chert, subangular, medium sorted, silica - ironstone - argillaceous cement. Several fractures filled with anhydrite, buff, lithographic and one fracture with calcite, white, finely crystalline.
- 1890' - 1900' Sandstone (50%), grey, very fine to fine grained, quartz with light colored chert and a few carbonaceous specks, subangular, medium sorted, silica and argillaceous cement; shale (50%), grey and dark grey, micromicaceous. A few chips of ironstone, brown, sublithographic. A few fractures filled with anhydrite, white, lithographic.
- 1900' - 1910' Sandstone (50%), as above but fine to medium grained; shale (50%), as above.
- 1910' - 1920' Shale (50%), grey and dark grey, micromicaceous; silt (50%), grey, micaceous, indurated.
- 1920' - 1930' Shale (50%), as above; silt (25%), as above; sandstone (25%), grey, fine to coarse grained, quartz with light colored chert, subrounded, poorly sorted, silica and argillaceous cement with some of the argillaceous cement washing out and leaving subrounded chert granules.

- 1930' - 1940' Silt (80%), dark grey, micaceous, indurated; shale (20%), grey and dark grey, micromicaceous. Several chips of ironstone, brown, sublithographic. One pod of anhydrite, white, very finely crystalline in the silt.
- Trip at 1948' showed two drill collars to be washed out and the bit to be almost balled.
- 1940' - 1950' Shale (40%), grey, micromicaceous; silt (30%), dark grey, micaceous, indurated; sandstone (30%), grey, fine to coarse grained, quartz and light colored chert, subrounded, poorly sorted, silica-ironstone-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 1950' - 1960' Sandstone (80%), grey, fine to coarse grained. quartz with light colored chert, with a few carbonaceous specks, subrounded, poorly sorted, silica and argillaceous cement; shale (20%), grey to dark grey, micromicaceous, in part silty and carbonaceous.
- 1960' - 1980' Sandstone (70%), as above with a few chips cemented with ironstone; shale (30%), grey to dark grey, micromicaceous, with several chips showing dustlike pyrite.
- 1980' - 1990' Sandstone, grey, fine to coarse grained, quartz with light colored chert with a few carbonaceous specks, subrounded, poorly sorted, silica-argillaceous-ironstone cement.
- 1990' - 2000' Sandstone (50%), as above; shale (25%), grey to dark grey, micromicaceous; silt (25%), dark grey, micaceous, indurated.
- 2000' - 2010' Shale (50%), as above; silt (30%), as above; sandstone (20%), as above.
- 2010' - 2020' Silt (80%), dark grey, micaceous, indurated, with carbonaceous specks; shale (20%), as above.
- 2020' - 2030' Sandstone (50%), grey, very fine to medium grained, quartz with light colored chert predominantly but some dark chert, subrounded, medium sorted, silica-argillaceous-ironstone cement. Several chips of ironstone, brown, sublithographic; shale (30%) as above; silt (20%), as above.
- 2030' - 2040' Shale (50%), grey, micromicaceous; silt (25%), dark grey, micaceous, indurated, with carbonaceous specks; sandstone, grey, very fine to fine grained, quartz and chert, subrounded, medium sorted, silica and argillaceous cement. A few chips of ironstone, brown, sublithographic. One quartz-filled fracture.

- 2040' - 2050' Shale (70%), grey and dark grey, micromicaceous; silt (30%), grey and dark grey, micaceous, with a few carbonaceous specks, indurated. A few chips of ironstone, brown, sublithographic.
- 2050' - 2060' Shale, grey, micromicaceous. A few chips ironstone, as above.
- 2060' - 2070' Shale (70%), grey, micromicaceous; silt (30%), grey, micaceous, argillaceous.
- 2070' - 2090' Shale (70%), grey, micromicaceous, with a few carbonaceous specks; silt (30%), grey, micaceous, indurated.
- 2090' - 2120' Shale (70%), grey to dark grey, micromicaceous; silt (30%), grey to dark grey, micaceous, with a few carbonaceous specks, indurated. A few chips of ironstone, brown, sublithographic. A few chips of the dark grey shale have dustlike pyrite.
- 2120' - 2130' Shale (80%), grey to dark grey, micromicaceous; sandstone (20%), grey, very fine grained, quartz with chert, subrounded, well sorted, silica and argillaceous cement.
- 2130' - 2140' Sandstone (70%), grey, very fine to fine grained, quartz with chert, subrounded, well sorted, silica and argillaceous cement; shale (30%), grey to dark grey, micromicaceous, with a few chips with dustlike pyrite.
- 2140' - 2150' Shale (70%), grey to dark grey, micromicaceous; sandstone (30%), grey, fine to medium grained, quartz and chert, subangular, medium sorted, silica-ironstone-argillaceous cement.
- 2150' - 2170' Sandstone (50%), grey, fine to coarse grained, quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; shale (30%), grey and dark grey, micromicaceous; silt (20%), dark grey, micaceous, indurated.
- 2170' - 2180' Sandstone (85%), as above; shale (15%), as above.
- 2180' - 2190' Shale (70%), grey, micromicaceous; sandstone (30%), as above.
- 2190' - 2210' Silt (40%), dark grey, micaceous, with carbonaceous specks, indurated; shale (30%), as above; sandstone (30%), as above.
- 2210' - 2230' Sandstone (40%), grey, fine to coarse grained, quartz and chert, subangular, poorly sorted, silica-argillaceous-ironstone cement; shale (40%), grey and dark grey, micromicaceous; silt (20%), dark grey, micaceous, indurated, with a few carbonaceous specks.

- 2230' - 2240' Sandstone (70%), as above; shale (30%), as above with dustlike pyrite.
- 2240' - 2250' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above.
- 2250' - 2260' Silt (60%), dark grey, micaceous, indurated, with carbonaceous specks; shale (40%), grey to dark grey, micromicaceous.
- 2260' - 2270' Sandstone (60%), grey, fine to coarse grained, quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; silt (20%), as above; shale (20%), as above.
- 2270' - 2280' Silt (50%), grey, micaceous, indurated; sandstone (35%), as above with one white, limestone pebble; shale (15%), grey, micromicaceous.
- 2280' - 2290' Sandstone (50%), as above; silt (30%), as above; shale (20%), as above.
- 2290' - 2300' Sandstone (50%), as above; shale (35%), grey to dark grey, micromicaceous, in part arenaceous; silt (15%), as above. One chip of sandstone has fracture filled with secondary anhydrite.
- 2300' - 2310' Shale (70%), grey, micromicaceous with several chips arenaceous; sandstone (20%), as above; silt (10%), as above.
- 2310' - 2320' Sandstone (40%), buff and grey, fine to medium grained, quartz and chert, subrounded, medium sorted, silica-argillaceous-ironstone cement; silt (40%), dark grey, micaceous with carbonaceous specks, indurated; shale (20%), grey to dark grey, micromicaceous.
- 2320' - 2330' Shale (50%), as above; silt (50%), as above but several chips are arenaceous.
- 2330' - 2340' Shale (80%), as above with several dark grey chips with dustlike pyrite; silt (20%), grey, micaceous, indurated.
- 2340' - 2350' Sandstone (50%), grey, fine to medium grained, quartz and chert, subrounded, poorly sorted, with carbonaceous traces, argillaceous and silica cemented; shale (30%), grey, micromicaceous; silt (20%), grey, micaceous.
- 2350' - 2360' Sandstone (90%), buff and grey, fine to coarse grained, quartz and chert, subrounded, poorly sorted, silica-ironstone-argillaceous cement; shale (10%), as above.

- 2360' - 2370' Sandstone (50%), as above; shale (50%), grey to dark grey, micromicaceous, in part silty with carbonaceous specks.
- 2370' - 2380' Siltstone (50%), grey and dark grey, micaceous, indurated, in part carbonaceous, in part arenaceous; shale (50%), as above.
- 2380' - 2390' Sandstone (50%), buff and grey, fine to medium grained, quartz and chert, subrounded, poorly sorted, silica-ironstone-argillaceous cement; silt (30%), dark grey, micaceous, carbonaceous, indurated; shale (20%), grey, micromicaceous with a few slickensided surfaces.
- 2390' - 2410' Silt (60%), dark grey, micaceous, carbonaceous, with a few chips arenaceous; shale (40%), grey and dark grey, micromicaceous with paper thin lenses of dark grey with dustlike pyrite. One chip of coal.
2400' - 2410' Several chips of ironstone, brown, sub-lithographic with pyrite-filled fracture.
- 2410' - 2430' Shale (70%), as above; silt (30%), as above but less carbonaceous. A few chips of ironstone, brown, sub-lithographic. Several fractures in shale filled with primary anhydrite.
- 2430' - 2450' Shale (60%), as above; silt (40%), dark grey, micaceous, in part argillaceous, in part arenaceous, slightly carbonaceous. Several slickensided surfaces, in the shale. One fracture filled with calcite with fine vuggy porosity.
- 2450' - 2460' Shale (50%), grey and dark grey, micromicaceous, in part with dustlike pyrite, with several slickensided surfaces; silt (30%), dark grey, micaceous, indurated, with carbonaceous specks; sandstone (20%), buff and grey, fine to medium grained, quartz and chert, subrounded, medium sorted, silica-ironstone-argillaceous cement.
- 2460' - 2480' Shale (50%), grey and dark grey, micromicaceous, in part silty, with thin lenses of dark grey with dustlike pyrite; silt (40%), grey, micaceous, indurated; sandstone (10%), as above. A few slickensided shale surfaces and several fractures filled with primary anhydrite. Several chips of coal imbedded in shale.
- 2480' - 2490' Sandstone (60%), grey, very fine to medium grained, quartz and chert, subangular, poor to medium sorted, silica-ironstone-argillaceous cement; shale (40%), grey, micromicaceous, in part silty.

- 2490' - 2500' Sandstone (70%), as above; shale (30%), as above.
- 2500' - 2510' Shale (70%), as above; sandstone (30%), as above; with a few chips of coal.
- 2510' - 2520' Silt (60%), grey, micaceous, indurated, with carbonaceous specks; shale (20%), as above; sandstone (20%), as above.
- 2520' - 2540' Shale (60%), grey and dark grey, micromicaceous, with carbonaceous specks; silt (20%), as above; sandstone (20%), as above but grading to coarse grained and with several fractures filled with pyrite.
- 2540' - 2550' Silt (80%), grey, micaceous, indurated, with a few carbonaceous specks; shale (20%), as above. Several chips of ironstone, brown, lithographic, slightly arenaceous.
- 2550' - 2570' Sandstone (50%), grey to buff, very fine to fine grained, quartz and chert, subangular, medium sorted, silica-ironstone-argillaceous cement; silt (25%), dark grey, micaceous, indurated, with carbonaceous specks; shale (25%), grey and dark grey, micromicaceous. A few fractures filled with buff, primary anhydrite and a few chips of shale slickensided. One calcite-filled fracture.
- 2570' - 2580' Silt (60%), as above; shale (30%), as above, with anhydrite filled fractures; sandstone (10%), as above.
- 2580' - 2590' Silt (50%), grey and dark grey, micaceous, indurated, with carbonaceous specks, in part slightly arenaceous; shale (50%), grey and dark grey, micromicaceous.
- 2590' - 2610' Silt (50%), as above; shale (30%), as above; sandstone (20%), grey, very fine to medium grained, quartz and chert, subangular, medium sorted, silica-ironstone-argillaceous cement.
- 2610' - 2630' Silt (80%), grey, micaceous, indurated; shale (20%), as above. Several fractures filled with buff, primary anhydrite.
- 2630' - 2640' Silt (60%), as above; shale (20%), as above; sandstone (20%), grey, fine grained, quartz and chert, subangular, medium sorted, silica and argillaceous cement, with several carbonaceous and pyrite traces. One fracture filled with buff primary anhydrite.
- 2640' - 2670' Shale (40%), as above; silt (30%), grey to dark grey, micaceous, indurated, in part carbonaceous; sandstone (30%), as above but in part ironstone cemented. Several chips of pyritized coal.

- 2670' - 2700' Sandstone (90%), grey, fine to medium grained, quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; shale (10%), grey, micromicaceous. A few chips of ironstone, brown, sublithographic, in the 2670' - 2680' sample.
- 2700' - 2710' Sandstone (60%), as above with one chip with a piece of red chert; shale (40%), grey and dark grey, micromicaceous with the dark grey containing dustlike pyrite. Several chips of ironstone, as above.
- 2710' - 2730' Shale (60%), grey and dark grey, micromicaceous, with a few slickensided surfaces; silt (20%), grey and dark grey, micaceous, indurated, in part carbonaceous; sandstone (20%), as above.
- 2730' - 2740' Shale (60%), as above; sandstone (30%), grey, fine to medium grained, quartz and chert, subangular, poorly sorted, silica-argillaceous cement with one calcite-filled fracture; silt (10%), grey, micaceous, indurated.
- 2740' - 2750' Sandstone (50%), as above but in part ironstone cemented; silt (25%), grey and dark grey, micaceous, indurated, with carbonaceous specks; shale (25%), grey and dark grey, micromicaceous. One chip of ironstone cemented sandstone has fracture with small crystal of galena.
- 2750' - 2760' Shale (60%), as above with some slickensiding and a few fractures infilled with buff, sublithographic anhydrite; silt (30%), as above; sandstone (10%), as above, with traces of poor porosity on some bedding planes (average porosity less than 2%).
- Baroid noted a gas kick commencing at 2757' and continuing with varying intensity to 2775'. The general lack of fair to good porosity was responsible for the decision not to drillstem test this zone.
- 2760' - 2770' Shale (50%), as above with slickensiding and anhydrite filled fractures; silt (25%), as above; sandstone (25%), as above with traces of poor porosity along bedding planes (average porosity less than 1%).
- 2770' - 2780' Sandstone (40%), as above sample 2760' - 2770'; shale (30%), grey to dark grey, micromicaceous with dustlike pyrite in some dark grey lenses; silt (30%), grey and dark grey, micaceous, indurated, in part carbonaceous. Several chips ironstone, brown, sublithographic.
- 2780' - 2790' Sandstone (80%), grey, fine to coarse grained. quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; shale (20%), grey and dark grey, micromicaceous, with a few chips slickensided.

- 2790' - 2800' Sandstone (50%), as above; shale (25%), as above; silt (25%), grey and dark grey, micaceous, indurated, with a few carbonaceous specks.
- 2800' - 2810' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above.
- 2810' - 2820' Silt (60%), as above; shale (20%), as above; sandstone (20%), as above but very fine to fine grained, with several pyrite filled fractures.
- 2820' - 2830' Silt (90%), grey and dark grey, micaceous, indurated, with a few carbonaceous specks, in part arenaceous; shale (10%), as above.
- 2830' - 2850' Shale (50%), grey, micromicaceous; silt (30%), grey and dark grey, micaceous, indurated, in part with carbonaceous specks; sandstone (20%), grey, fine to coarse grained, quartz and chert, subangular, poorly sorted, silica-ironstone, argillaceous cement. A few chips of ironstone, brown, sublithographic.
2840' - 2850' Some pyrite cement in the sandstones.
- 2850' - 2860' Sandstone (30%), as above; silt (30%), as above; shale (30%), as above; ironstone (10%), brown, sublithographic.
- 2860' - 2870' Shale (70%), grey and dark grey, micromicaceous with dustlike pyrite in the dark grey shale; silt (30%), grey and dark grey, micaceous, indurated, with carbonaceous specks, in part arenaceous. A few chips of ironstone, brown, sublithographic.
- 2870' - 2880' Shale (80%), as above; silt (20%), as above.
- 2880' - 2890' Shale (60%), as above; silt (40%), as above. A few chips of ironstone, brown, sublithographic. A few slickensided surfaces in the shale.
- 2890' - 2900' Shale (50%), as above; silt (50%), as above.
- 2900' - 2910' Silt (60%), as above; shale (40%), as above.
- 2910' - 2920' Shale (50%), grey and dark grey, micromicaceous with dustlike pyrite associated with some lenses of dark grey shale; silt (30%), grey and dark grey, micaceous, indurated pyritic, in part slightly carbonaceous; sandstone (20%), grey, very fine to medium grained, quartz and chert, subangular, in part poorly sorted, silica-pyrite-argillaceous cement.
- 2920' - 2940' Sandstone (50%), as above but fine to medium grained with ironstone-silica-argillaceous cement; shale (30%), as above; silt (20%), as above.

- 2940' - 2950' Silt (60%), as above; shale (30%), as above; sandstone (10%), as above.
- 2950' - 2960' Silt (40%), as above; shale (30%), as above; sandstone (30%), grey and buff, fine to coarse grained, quartz and chert, subangular, poorly sorted, ironstone-silica-argillaceous cement.
- 2960' - 2970' Silt (60%), as above grading to very fine grained sandstone; shale (20%), as above; sandstone (20%), as above.
- 2970' - 2980' Shale (40%), as above; silt (40%), as above sample 2960'- 2970'; sandstone (20%), grey and buff, fine to medium grained, quartz and chert, subangular, medium sorted, ironstone-silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 2980' - 2990' Shale (50%), as above; silt (25%), as above; sandstone (25%), as above.
- 2990' - 3010' Sandstone (80%), grey, fine to coarse grained, chert and quartz, subangular, poorly sorted, silica-ironstone-argillaceous cement, with trace of very poor porosity; silt (10%), as above; shale (10%), as above.
3000' - 3010' A few chips of ironstone, brown, sublithographic.
- 3010' - 3020' Sandstone (70%), as above; silt (20%), as above; shale (10%), as above.
- 3020' - 3040' Sandstone (45%), as above; silt (45%), grey and dark grey, micaceous, indurated, in part carbonaceous.
- 3040' - 3050' Shale (70%), grey, micromicaceous; silt (30%), dark grey, micaceous, indurated, in part slightly carbonaceous. A few chips of ironstone, brown, sublithographic, in part arenaceous.
- 3050' - 3060' Sandstone (50%), grey and buff, fine to coarse grained, chert and quartz, subangular, very poorly sorted, silica-ironstone-argillaceous cement; shale (40%), grey, micromicaceous; silt (10%), grey, micaceous, indurated, slightly carbonaceous.
- 3060' - 3080' Sandstone (50%), as above; silt (40%), grey and dark grey, micaceous, indurated, in part slightly carbonaceous; shale (10%), as above.
3060' - 3070' Less coarse grains of chert.

- 3080' - 3090' Sandstone (80%), grey and buff, fine with minor amount of coarse grained, chert and quartz, subangular, medium sorted, silica-ironstone-argillaceous cement, with several chips with pyrite cement; shale (20%), grey and dark grey, micromicaceous.
- 3090' - 3100' Sandstone (50%), as above; silt (30%), grey and dark grey, micaceous, indurated, in part slightly carbonaceous; shale (20%), as above.
- 3100' - 3110' Sandstone (40%), as above; silt (40%), as above; shale (20%), grey and dark grey, micromicaceous.
- 3110' - 3120' Sandstone (40%), as above; shale (40%), as above; silt (20%), as above.
- 3120' - 3140' Shale (50%), grey and dark grey, micromicaceous, with dustlike pyrite in some of dark grey; silt (40%), grey, micaceous, indurated, in part arenaceous; sandstone (10%), as above.
- 3140' - 3150' Shale (40%), as above; silt (30%), as above; sandstone (30%), grey and buff, fine to medium grained, subangular, medium sorted, silica-ironstone-argillaceous cement.
- 3150' - 3160' Sandstone (60%), grey and buff, fine to medium grained, chert and quartz, subangular, poorly sorted, argillaceous-ironstone-silica cement; silt (20%), as above; shale (20%), as above. A few chips of ironstone, brown, sublithographic.
- 3160' - 3170' Sandstone (70%), as above; shale (20%), as above; silt (10%), as above.
- 3170' - 3180' Shale (40%), grey to dark grey, micromicaceous, in part arenaceous, with a few carbonaceous specks; silt (40%), grey, micaceous, indurated; sandstone (20%), grey and buff, fine to medium grained, subangular, medium sorted, ironstone-silica-argillaceous cement, with a quartz-filled fracture. One chip of pyritized coal.
- 3180' - 3190' Shale (40%), as above; silt (40%), as above; sandstone (20%), as above. Several shale fractures filled with paper thin calcite.
- 3190' - 3200' Shale (40%), as above; silt (30%), as above; sandstone (30%), as above. Several fractures filled with white, rhombohedral dolomite.
- 3200' - 3210' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.
- 3210' - 3220' Shale (70%), as above; silt (15%), as above; sandstone (15%), as above. A number of chips of ironstone, brown sublithographic.

- 3220' - 3230' Shale (60%), grey and dark grey, micromicaceous, with dustlike pyrite in the dark grey lenses; silt (25%), grey to dark grey, micaceous, indurated; sandstone (15%), grey, fine to medium grained, quartz and chert, subangular, medium sorted, argillaceous-silicious cement. One quartz-filled fracture.
- 3230' - 3240' Shale (80%), grey, micromicaceous with one chip dark grey and pyritic; silt (10%), grey, indurated; sandstone (10%), as above. One quartz-filled fracture.
- 3240' - 3260' Shale (50%), grey and dark grey, micromicaceous, with the dark grey shale with dustlike pyrite; silt (40%), grey, indurated; sandstone (10%), as above.
3240' - 3250' One dolomite-filled fracture.
3250' - 3260' One chip pyritized coal. One gypsum-filled fracture.
- 3260' - 3270' Shale (70%), as above; sandstone (20%), grey, very fine to fine grained, quartz and chert, subangular, medium sorted, silica-argillaceous cement; silt (10%), grey, micaceous, indurated.
- 3270' - 3280' Shale (60%), as above; silt (20%), grey to dark grey, micaceous, indurated, in part carbonaceous; sandstone (20%), grey and buff, very fine to fine grained, quartz and chert with several bright red specks, subangular, medium sorted, silica-ironstone-argillaceous cement with several very thin quartz-filled fractures.
- 3280' - 3290' Shale (60%), as above; silt (20%), as above; sandstone (20%), grey to dark grey, very fine to fine grained, quartz and chert, subangular, medium sorted, silica-argillaceous cement. One quartz-filled fracture.
- 3290' - 3300' Sandstone (60%), grey, fine to medium grained, quartz and chert, subangular, poorly sorted, silica-argillaceous-ironstone cemented; shale (40%), grey, micromicaceous.
- 3300' - 3310' Sandstone (40%), as above; shale (40%), grey and dark grey, micaceous, in part with dustlike pyrite; silt (20%), grey, micaceous, indurated.
- 3310' - 3320' Shale (70%), grey and dark grey, micromicaceous, in part pyritic; sandstone (20%), as above; silt (10%), as above. Fractures filled with white quartz and white, rhombohedral dolomite.
- 3320' - 3330' Sandstone (50%), grey and buff, fine to medium grained, quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; shale (35%), as above; silt (15%), as above.

- 3330' - 3340' Shale (55%), as above; sandstone (45%), as above. Several chips of coal. Several quartz-filled fractures.
- 3340' - 3350' Sandstone (60%), grey and buff, fine to medium grained, quartz and chert, subangular, poorly sorted, silica-ironstone-argillaceous cement; silt (20%), grey and dark grey, micaceous, indurated, in part with carbonaceous specks; shale (20%), as above. Several chips of coal. One fracture filled with quartz.
- 3350' - 3360' Sandstone (40%), as above; silt (40%), as above; shale (20%), as above.
- 3360' - 3380' Shale (60%), as above; silt (25%), as above; sandstone (15%), as above. Quartz-filled fractures in the silt. 3370' - 3380' One carbonaceous trace in shale. A few chips of ironstone, brown, sublithographic.
- 3380' - 3410' Shale (70%), grey and dark grey, micromicaceous, in part slightly pyritic; silt (30%), grey, micaceous, indurated, in part arenaceous. A few chips of ironstone, brown, sublithographic.
- 3410' - 3450' Shale (60%), as above; silt (30%), as above; sandstone (10%), dark grey, very fine grained, quartz and chert, subangular, medium sorted, silica-ironstone-argillaceous cement. Numerous chips of ironstone, brown, sublithographic.
- 3450' - 3470' Shale (50%), grey and dark grey, micromicaceous, with dustlike pyrite in some dark grey lenses; silt (50%), grey and dark grey, micaceous, indurated, in part with carbonaceous specks. A few chips of ironstone, brown, sublithographic. One chip of massive pyrite.
- 3470' - 3480' Shale (70%), grey to dark grey, micromicaceous, with a few carbonaceous traces; silt (30%), grey, micaceous, indurated, with a few carbonaceous specks, in part arenaceous. A few chips of ironstone, brown, sublithographic.
- 3480' - 3530' Shale (50%), as above; sandstone (50%), grey, very fine to fine grained, quartz, and light and dark chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. A few quartz-filled fractures.
- 3530' - 3540' Sandstone (70%), grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement; shale (30%), grey to dark grey, micromicaceous, with a few carbonaceous streaks. A few chips of ironstone, brown, sublithographic.

- 3540' - 3560' Shale (70%), as above; sandstone (30%), as above, but in part carbonaceous. A few chips of ironstone, brown, sublithographic.
- 3560' - 3570' Shale (70%), grey to dark grey, micromicaceous, with a few carbonaceous traces; silt (30%), grey, indurated grading to very fine grained sandstone, as above.
- 3570' - 3580' Shale (50%), as above; sandstone (50%), grey to buff, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-ironstone cement, slightly carbonaceous.
- 3580' - 3590' Shale (60%), as above; silt (40%), grey, indurated, in part carbonaceous, in part arenaceous.
- 3590' - 3600' Sandstone (60%), grey and buff, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-ironstone cement, with a few white specks; shale (40%), as above. A few chips of ironstone, brown, sublithographic, in part arenaceous.
- 3600' - 3610' Shale (65%), as above; sandstone (35%), as above. One fracture in sandstone filled with white, finely crystalline anhydrite. A twig replaced by pyrite.
- 3610' - 3660' Shale (80%), grey and dark grey, micromicaceous, with a few pyrite and carbon traces; sandstone (20%), as above grading to silt. A few chips of ironstone, brown, sublithographic.
- 3660' - 3670' Shale (60%), grey, micromicaceous, with a few carbonaceous specks; sandstone (40%), grey, very fine to fine grained, quartz and chert with a few white specks, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 3670' - 3680' Sandstone (70%), as above; shale (30%), as above.
- 3680' - 3690' Sandstone (70%), as above but very fine grained; shale (30%), as above.
- 3690' - 3710' Sandstone (60%), as above sample 3680' - 3690'; shale (30%), as above.
3690' - 3700' Numerous chips of ironstone, brown, sublithographic.
- 3710' - 3720' Shale (70%), grey, micromicaceous with a few carbonaceous traces, in part bentonitic; sandstone (30%), grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.

- 3720' - 3740' Shale (60%), as above; sandstone (40%), as above. A few chips of ironstone, brown, sublithographic. Dustlike pyrite in some of the shale.
- 3740' - 3760' Shale (70%); as above sample 3720' - 3730'; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic. A few fractures filled with anhydrite, white, finely crystalline.
- 3760' - 3790' Shale (70%), grey and dark grey, micromicaceous, with a few carbonaceous traces; sandstone (30%), grey, very fine grained, quartz and chert with white specks, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. A few fractures with white, finely crystalline, anhydrite.
- 3790' - 3800' Shale (70%), dark grey, micromicaceous, with carbonaceous traces, with a few white specks; sandstone (30%), grey, as above. A few chips of ironstone, brown, sublithographic. A number of fractures filled with white quartz and white, finely crystalline anhydrite. Some of the quartz is intergrown with white dolomite.
- 3800' - 3810' Shale (60%), as above; sandstone (40%), as above. Fractures filled with dolomite and/or quartz.
- 3810' - 3830' Sandstone (70%), grey, very fine to fine grained, quartz-chert with a few white specks, subangular, well sorted, silica-argillaceous-calcareous cement. A few chips of ironstone, brown, sublithographic. Fractures filled with white dolomite and/or quartz. Shale (30%), as above.
- 3830' - 3840' Shale (60%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic.
- 3840' - 3850' Sandstone (60%), as above; shale (40%), as above. A few chips of ironstone, brown, sublithographic.
- 3850' - 3880' Shale (70%), grey to dark grey, micromicaceous, in part with carbonaceous specks and traces, and dustlike pyrite; sandstone (30%), grey, very fine grained grading to silt, quartz-chert-white specks, subangular, well sorted, silica-argillaceous cement with specks of pyrite. A few chips of ironstone, brown, sublithographic.
- 3880' - 3900' Shale (50%), as above; sandstone (50%), as above. A few fractures filled with white quartz. A few chips of ironstone, brown, sublithographic.
- 3900' - 3910' As above sample 3880' - 3900' but the sandstone grades from silt to fine grained and pyrite specks become more numerous in the sandstone. One shale fracture filled with white, finely crystalline anhydrite.

- 3910' - 3950' Shale (70%), dark grey, micromicaceous, with dustlike pyrite, in part silty; sandstone (30%), grey, very fine grained grading to silt, quartz-chert-white specks, subangular, well sorted, silica-argillaceous cement with dustlike pyrite. A few chips ironstone, brown, sublithographic.
- 3950' - 3960' Shale (65%), grey and dark grey, micromicaceous, with a few carbonaceous specks, in part silty; sandstone (35%), as above. A few chips of ironstone, brown, sublithographic. A few white, quartz-filled fractures.
- 3960' - 3970' Shale (50%), as above; sandstone (50%), as above.
- 3970' - 3980' Shale (65%), as above; sandstone (35%), as above.
- 3980' - 4010' Shale (65%), as above; sandstone, as above. Sample 4000' - 4010' has fracture in sandstone filled with white, finely crystalline anhydrite.
- 4010' - 4030' Shale (80%), dark grey, micromicaceous, in part silty, in part with dustlike pyrite; sandstone (20%), grey, very fine grained, quartz-chert-white specks, subangular, well sorted, silica-argillaceous cement, with pyrite specks. A few chips of ironstone, brown, sublithographic.
- 4030' - 4060' Shale (50%), grey to dark grey, micromicaceous, with dustlike pyrite, a few carbonaceous specks; sandstone (50%), as above grading to silt.
4050' - 4060' A few chips ironstone, brown, sublithographic.
- 4060' - 4070' Shale (60%), as above; sandstone (40%), as above. A few chips of ironstone, brown, sublithographic.
- 4070' - 4100' Shale (80%), as above; sandstone (20%), as above. Several white quartz-filled fractures.
- 4100' - 4110' Shale (50%), dark grey, micromicaceous, with carbonaceous specks and traces, in part silty, in part dolomitic, in part with dustlike pyrite; sandstone (50%), grey, very fine to fine grained, quartz-chert- a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement with in part dustlike pyrite. Fractures filled with white, finely crystalline anhydrite and white quartz and/or dolomite.
- 4110' - 4130' Sandstone (70%), as above; shale (30%). Fracture filling as above.
- 4130' - 4140' Silt (50%), dark grey, micaceous, indurated, in part with carbonaceous specks, in part argillaceous; shale (25%), dark grey, micromicaceous, with carbonaceous specks and traces; sandstone (25%), as above with rare bleb of glauconite. Fractures filled with anhydrite or quartz, as above.

- 4140' - 4150' Shale (70%), as above; silt (30%), as above. Fracture filling as above.
- 4150' - 4170' Shale (65%), as above; sandstone (35%), grey, very fine to fine grained, quartz-chert-occasional white speck, subangular, medium sorted, silica-argillaceous-trace dolomite cement, with pyrite specks. Fractures filled with white, finely crystalline anhydrite, or white, finely crystalline dolomite or white quartz. A few chips of ironstone, brown, sublichographic.
- 4170' - 4180' Shale (70%), as above; silt (20%), grey, indurated, micaceous, in part with white specks; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic.
- 4180' - 4200' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.
- 4200' - 4210' Shale (70%), dark grey, micromicaceous, in part with carbonaceous specks and traces, in part with dustlike pyrite; silt (15%), grey, indurated, micaceous, in part with white specks; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic.
- 4210' - 4220' Shale (60%), dark grey, micromicaceous, in part with carbonaceous specks and traces; silt (40%), grey, indurated, micaceous, with carbonaceous specks, in part arenaceous. Fractures filled with white dolomite or quartz.
- 4220' - 4240' Sandstone (65%), grey, very fine to fine grained, quartz-chert- a few white specks, subangular, medium to well sorted, silica-argillaceous cement, very slightly dolomitic; shale (35%), dark grey, micromicaceous, in part with carbonaceous specks and traces. Shale fractures filled with slickensided white, finely crystalline anhydrite. A few chips of ironstone, brown, sublithographic.
- 4240' - 4260' Sandstone (50%), as above; shale (50%), as above. A few fractures filled with white quartz or dolomite.
- 4260' - 4270' Silt (65%), grey, micaceous, indurated with a few white specks, in part slightly arenaceous; shale (35%), dark grey, micromicaceous, in part with carbonaceous specks. One quartz-filled fracture.
- 4270' - 4280' Shale (65%), as above; silt (35%), as above. Several chips of ironstone, brown, sublithographic.
- 4280' - 4300' Shale (50%), as above; silt (25%), as above; sandstone (25%), grey, very fine grained, quartz-chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. One anhydrite-filled fracture.

- 4300' - 4310' Shale (50%), dark grey, micromicaceous, with carbonaceous specks and traces; silt (50%), grey, indurated, a few white specks with a few chips grading to very fine grained sandstone. A few chips of ironstone, brown, sublithographic.
- 4310' - 4320' Shale (60%), as above; silt (20%), as above; sandstone (20%), grey, very fine grained, chert and quartz with a few white specks, subangular, well sorted, silica-argillaceous cement. One white dolomite-filled fracture.
- 4320' - 4330' Shale (80%), dark grey, micromicaceous, in part silty, with carbonaceous specks and traces, in part with dustlike pyrite; sandstone (20%), grey, very fine grained, quartz-chert- a few white specks, subangular, well sorted, silica-argillaceous cement with a few pyrite blebs. Fractures filled with white crystalline anhydrite, white quartz and/or dolomite. A few chips of ironstone, brown, sublithographic.
- 4330' - 4370' Shale (60%), as above; sandstone (30%), as above; silt (10%), grey, indurated, micaceous. A few chips of ironstone, brown, sublithographic. A few fractures as above.
- 4370' - 4380' Shale (50%), as above; sandstone (50%), as above. A few chips of ironstone, brown, sublithographic. Several fractures filled with dolomite or quartz.
- 4380' - 4410' Sandstone (65%), as above with a few chips grading to silt; shale (35%), as above. Fractures filled with quartz and more recently by white, finely crystalline, anhydrite.
- 4410' - 4420' Shale (60%), dark grey, micromicaceous, in part silty with a few carbonaceous specks; silt (40%), grey to dark grey, indurated, micaceous, with a few white specks, in part with dustlike pyrite. A few chips of ironstone, brown, sublithographic.
- 4420' - 4430' As above but silt is coarser grained.
- 4430' - 4440' Sandstone (60%), very fine to occasionally fine grained, silty, dirty, medium to occasionally light grey, salt and pepper, very well cemented, argillaceous, tight. Shale (30%), dark grey, micromicaceous, chunky, medium hard; siltstone (10%), dark grey, sandy, hard.
- 4440' - 4450' Sandstone (70%), very fine to fine grained, light grey, salt and pepper, slightly carbon flecked, very well cemented, siliceous to argillaceous, tight, trace anhydrite infilled fracture; shale (30%), dark grey, as above.

- 4450' - 4460' Sandstone (90%), very fine to fine grained, light grey to slightly medium grey, salt and pepper, trace coaly, very well cemented, silt and clay, tight; shale (10%), dark grey, as above.
- 4460' - 4470' Sandstone (80%), very fine to fine grained, as above, trace fractures; shale (20%), dark grey, micromicaceous, chunky, medium hard, with some light brown sideritic ironstone.
- 4470' - 4480' Sandstone (90%), very fine grained, commonly medium grey, salt and pepper, very well cemented, argillaceous, tight; shale (10%), dark grey, as above, with some light brown sideritic ironstone.
- 4480' - 4490' Sandstone (90%), very fine grained, silty, medium grey, dirty, salt and pepper, very well cemented, argillaceous, tight; shale (20%), dark grey, as above, trace free anhydrite, probably fracture infill.
- 4490' - 4500' Sandstone (80%), very fine grained, silty, medium grey, salt and pepper, very well cemented, argillaceous, tight, trace anhydrite filled fractures; shale (20%), dark grey, as above.
- 4500' - 4510' Sandstone (70%), very fine to fine grained, occasionally coarse grained, medium grey, salt and pepper, very poorly sorted in part, very well cemented, argillaceous, tight; shale (30%), dark grey, micromicaceous, chunky, medium hard, with some light to dark brown sideritic ironstone.
- 4510' - 4520' Shale (60%), dark grey, micromicaceous, chunky, medium hard, common sideritic ironstone; sandstone (40%), very fine to fine grained, trace medium grained, light to medium grey, salt and pepper, trace blue grey chert, very well cemented, slightly limey, argillaceous, tight.
- 4520' - 4530' Shale (80%), dark grey, as above, common sideritic ironstone, trace pyrite; sandstone (20%), very fine to coarse grained, light to medium grey, salt and pepper, very poorly sorted, subangular, very well cemented, siliceous, tight.
- 4530' - 4540' Siltstone (40%), medium to dark grey, sandy in part, hard; sandstone (40%), very fine to fine grained, occasionally medium grained, medium grey, salt and pepper, very well cemented, silt and clay, tight; shale (20%), dark grey, as above, trace sideritic ironstone.
- 4540' - 4550' Shale (70%), dark grey, micromicaceous, chunky, medium hard; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, very well cemented, argillaceous, tight.

- 4550' - 4560' Shale (70%), dark grey, as above, some light brown sideritic ironstone; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, argillaceous, tight.
- 4560' - 4570' Sandstone (60%), very fine grained, silty, medium grey, salt and pepper, occasionally slightly micaceous, very well cemented, silt and argillaceous, tight; shale (40%), dark grey, as above.
- 4570' - 4580' Sandstone (70%), very fine to fine grained, medium grey, occasionally light grey, salt and pepper, very well cemented, argillaceous-silt, tight; shale (30%), dark grey, as above.
- 4580' - 4590' Sandstone (50%), as above; shale (50%), dark grey, as above.
- 4590' - 4600' Sandstone (50%), very fine to fine grained, silty, medium grey, salt and pepper, very well cemented, silt, tight; shale (50%), dark grey, micromicaceous, chunky, some splintery, medium hard.
- 4600' - 4610' Siltstone (60%), medium grey, salt and pepper, sandy, micaceous, hard; shale (40%), dark grey, micromicaceous, silty in part, chunky, medium hard, with trace of light grey and blue grey chert, some brown sideritic ironstone.
- 4610' - 4620' Siltstone (70%), as above; shale (30%), dark grey, as above, trace sideritic ironstone.
- 4620' - 4630' Siltstone (40%), as above; shale (40%), dark grey, as above, trace anhydrite infilled fractures; sandstone (20%), very fine grained, silty, medium grey, salt and pepper, very well cemented, argillaceous, tight.
- 4630' - 4640' Sandstone (40%), very fine grained, silty, light to medium grey, salt and pepper, very well cemented, silt, tight; siltstone (30%), light to dark grey, salt and pepper, micaceous, sandy, hard; shale (30%), dark grey, as above.
- 4640' - 4650' Shale (60%), dark grey, dark brownish grey, micromicaceous, chunky, to occasionally splintery, medium hard, trace orange-buff anhydrite; siltstone (20%), as above; sandstone (20%), as above, trace coarse grained, trace fractured.
- 4650' - 4660' Shale (70%), dark grey, micromicaceous to commonly silty, chunky, medium hard; siltstone (30%), medium grey, sandy, salt and pepper, hard.
- 4660' - 4670' Sandstone (80%), very fine grained, silty, light to medium grey, salt and pepper, very well cemented, silt, tight, occasionally fractured; shale (20%), dark grey, micromicaceous, chunky, medium hard.

4670' - 4680'

Sandstone (60%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt and argillaceous, tight, some fractures infilled with anhydrite; siltstone (20%), medium to dark grey, slightly sandy; shale (20%), dark grey, silty, micromicaceous, occasionally silty, chunky, medium hard.

4680' - 4690'

Shale (60%), dark grey, micromicaceous, chunky, medium hard, common sideritic ironstone; siltstone (20%), dark grey; sandstone (20%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt and argillaceous, tight, some anhydrite infilled fractures.

4690' - 4700'

Sandstone (50%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt and argillaceous, occasional anhydrite infilled fractures; siltstone (30%), medium grey, micaceous in part; shale (20%), dark grey, micromicaceous, chunky, medium hard, some brown sideritic ironstone.

4700' - 4710'

Sandstone (60%), as above, common anhydrite and dolomite infilled fractures; siltstone (20%), as above; shale (20%), dark grey, as above.

4710' - 4720'

Shale (60%), dark grey, micromicaceous, chunky, medium hard; sandstone (40%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, some anhydrite infilled fractures.

4720' - 4730'

Shale (90%), dark grey, micromicaceous, platy, trace plant material; siltstone (10%), medium grey, sandy, hard.

4730' - 4740'

Shale (80%), dark grey, as above, trace blue grey chert; sandstone (10%), very fine to fine grained, medium to dark grey, salt and pepper, as above; siltstone (10%), medium to dark grey, micaceous, hard.

4740' - 4750'

Shale (70%), dark grey, micromicaceous, chunky, medium hard, trace blue grey chert; sandstone (20%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, occasional closed fracture; siltstone (10%), medium grey, as above.

4750' - 4760'

Sandstone (70%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt and clay, tight, abundant anhydrite and dolomite infilled fractures; shale (30%), dark grey, micromicaceous, common silty.

4760' - 4790'

Shale (50%), dark grey, micromicaceous, chunky, medium hard; siltstone (30%), medium grey, sandy, hard, some infilled fractures; sandstone (20%), very fine to commonly fine grained, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, some infilled fractures.

- 4790' - 4800' Shale (90%), dark grey, micromicaceous, chunky to occasionally splintery, medium hard; sandstone (10%), as above.
- 4800' - 4810' Shale (70%), dark grey, micromicaceous, some silty, common slickensides, chunky, medium hard; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, some anhydrite and dolomite infilled fractures.
- 4810' - 4820' Shale (50%), dark grey, micromicaceous, common slickensides, chunky, medium hard; siltstone (50%), medium grey, sandy in part, some dolomite filled fractures.
- 4820' - 4830' Shale (80%), dark grey, as above, silty in part, some slickensides, chunky, occasionally splintery, medium hard, some sideritic ironstone; siltstone (20%), medium grey, sandy in part.
- 4830' - 4840' Shale (60%), dark grey, micromicaceous, chunky, medium hard; sandstone (20%), very fine grained, silty, medium grey, salt and pepper, as above, trace fractures; siltstone (20%), as above.
- 4840' - 4850' Shale (70%), dark grey, micromicaceous, silty in part, chunky, medium hard, some infilled fractures (dolomite and anhydrite), trace slickensides; sandstone (30%), very fine grained, silty, medium to dark grey, dirty, salt and pepper, very well cemented, silt-argillaceous, tight.
- 4850' - 4860' Shale (60%), dark grey, as above, trace slickensides, some infilled fractures, some splintery; siltstone (30%), medium grey, sandy in part; sandstone (10%), as above.
- 4860' - 4870' Shale (70%), dark grey, micromicaceous, silty, chunky, occasionally splintery, trace slickensides; sandstone (30%), very fine to fine grained, medium to dark grey, salt and pepper, very well cemented, silt-argillaceous tight.
- 4870' - 4880' Shale (80%), dark grey, as above, trace slickensides; sandstone (20%), very fine to fine grained, as above, trace infilled fractures.
- 4880' - 4890' Shale (70%), dark grey, as above; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, trace infilled fractures.
- 4890' - 4900' Shale (60%), dark grey, as above; siltstone (30%), medium grey, sandy in part, hard; sandstone (10%), as above.
- 4900' - 4910' Shale (40%), dark grey, as above; siltstone (40%), medium grey, as above; sandstone (20%), as above.

- 4910' - 4920' Shale (60%), dark grey, micromicaceous, some silty, chunky, medium hard, traces of filled fractures; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight; siltstone (10%), medium grey.
- 4920' - 4930' Sandstone (70%), very fine grained, silty, medium grey, salt and pepper, slightly carbon flecked, as above; shale (30%), dark grey, as above, trace brown sideritic ironstone.
- 4930' - 4940' Sandstone (80%), very fine grained, silty, medium grey, salt and pepper, as above; shale (20%), dark grey, as above.
- 4940' - 4950' Sandstone (60%), very fine to occasionally fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight; siltstone (20%), medium grey; shale (20%), dark grey, micromicaceous, chunky to platy, some splintery.
- 4950' - 4960' Shale (70%), dark grey, micromicaceous, chunky, some splintery, medium hard, trace slickensides, trace plant material; sandstone (30%), very fine grained, silty, as above.
- 4960' - 4970' Shale (90%), dark grey, micromicaceous, chunky to platy, medium hard, trace plant material; sandstone (10%), as above.
- 4970' - 4980' Shale (80%), dark grey, as above; sandstone (20%), very fine to fine grained, light to medium grey, salt and pepper, trace carbon flecked, very well cemented, silt-argillaceous, very slightly limey, tight.
- 4980' - 4990' Shale (90%), dark grey, as above; sandstone (10%), as above.
- 4990' - 5000' Shale (80%), dark grey, micromicaceous, chunky to platy, medium hard; siltstone (10%), medium to dark grey, sandy in part; sandstone (10%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight.
- 5000' - 5010' Shale (70%), dark grey, as above; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, as above, trace pyritic.
- 5010' - 5020' Shale (70%), dark grey, micromicaceous, chunky, medium hard, trace slickensides; sandstone (30%), very fine grained, silty, medium to dark grey, as above.
- 5020' - 5030' Sandstone (80%), very fine grained, silty, light to medium grey, salt and pepper, very well cemented, silt, tight; shale (20%), dark grey, as above.

- 5030' - 5040' Sandstone (80%), very fine to fine grained, silty in part, light to medium grey, salt and pepper, as above; shale (20%), dark grey, as above.
- 5040' - 5050' Sandstone (60%), very fine to fine grained, as above; shale (40%), dark grey, as above, trace slickensides.
- 5050' - 5060' Shale (50%), dark grey, as above, trace plant; sandstone (30%), very fine grained, silty, medium grey, salt and pepper, occasional fracture infilled with anhydrite; siltstone (20%), medium to dark grey.
- 5060' - 5070' Shale (50%), dark grey, micromicaceous, chunky, medium hard; sandstone (40%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, some anhydrite (white to orange) infilled fractures; siltstone (10%), medium to dark grey.
- 5070' - 5080' Sandstone (50%), very fine grained, silty, light to medium grey, salt and pepper, very well cemented, silt, tight, common fractures infilled with anhydrite and dolomite; shale (40%), dark grey, as above; siltstone (10%), medium grey, sandy.
- 5080' - 5090' Shale (80%), dark grey, micromicaceous, chunky, medium hard; siltstone (10%), medium to dark grey, sandy; sandstone (10%), very fine grained, silty, medium to dark grey, salt and pepper, argillaceous, as above, some fracture infill.
- 5090' - 5100' Sandstone (70%), very fine grained, silty, medium grey, occasionally light grey, salt and pepper, very well cemented, silt-argillaceous, tight, common infilled fractures - anhydrite and dolomite; shale (30%), dark grey, micromicaceous, chunky, medium hard.
- 5100' - 5110' Sandstone (60%), very fine grained, silty, as above, with common anhydrite and dolomite infilled fractures; shale (40%), dark grey, as above, trace slickensides.
- 5110' - 5120' Shale (80%), dark grey, micromicaceous, chunky, medium hard, fractures infilled with dolomite and anhydrite; siltstone (20%), medium grey, commonly sandy, hard.
- 5120' - 5130' Shale (60%), dark grey, as above; siltstone (20%), medium grey, sandstone (20%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight.
- 5130' - 5140' Shale (70%), dark grey, as above, some brown sideritic ironstone; siltstone (30%), medium grey, sandy, hard.

- 5140' - 5150' Sandstone (60%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt-argillaceous, slightly dolomitic, tight, trace dolomite infilled fractures; shale (40%), dark grey, trace ironstone.
- 5150' - 5160' Shale (70%), dark grey, micromicaceous, chunky, trace splintery; sandstone (30%), very fine to fine grained, trace medium grained, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, trace filled fractures.
- 5160' - 5170' Shale (60%), dark grey, as above, trace slickensides; sandstone (20%), very fine to fine grained, as above; siltstone (20%), medium to dark grey, sandy in part.
- 5170' - 5180' Shale (60%), dark grey, micromicaceous, chunky, medium hard; sandstone (20%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight; siltstone (20%), medium grey.
- 5180' - 5190' Shale (40%), dark grey, micromicaceous, chunky, medium hard; sandstone (30%), very fine grained, silty, medium grey, as above; siltstone (30%), medium grey.
- 5190' - 5200' Shale (70%), dark grey, as above, trace slickensides, trace brown sideritic ironstone; sandstone (20%), very fine to fine grained, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight; siltstone (10%), medium grey.
- 5200' - 5210' Shale (50%), dark grey, as above; sandstone (30%), very fine grained, medium grey, as above, trace dolomite infilled fractures; siltstone (20%), medium grey.
- 5210' - 5220' Shale (60%), dark grey, micromicaceous, chunky, medium hard, trace slickensides; siltstone (30%), medium grey, sandy, hard; sandstone (10%), very fine grained, silty, medium grey, salt and pepper, very well cemented, silt-argillaceous, tight, some dolomite infilled fractures.
- 5220' - 5230' Shale (70%), dark grey, as above, some brown sideritic ironstone; siltstone (20%), light to medium grey, sandy in part; sandstone (10%), very fine grained, silty, medium grey, as above.
- 5230' - 5250' Shale (60%), dark grey, micromicaceous with local carbonaceous specks and locally dustlike pyrite; silt (20%), grey and dark grey, indurated, with white specks; sandstone (20%), grey, very fine to fine grained, quartz-chert- a few white specks and black carbonaceous specks, subangular, well sorted, silica-argillaceous-dolomite-pyrite cement. Fractures filled with primary and secondary anhydrite, and quartz with latter dolomite.
5240' - 5250' Silt has dustlike pyrite. A few chips of ironstone, brown, sublithographic.

- 5250' - 5260' Shale (40%), as above; silt (30%), grey and dark grey, indurated, with white specks and dustlike pyrite; sandstone (30%), grey, very fine to fine grained, quartz and chert with a few carbonaceous specks, subangular, medium sorted, silica-argillaceous cement.
- 5260' - 5280' Shale (40%), as above; sandstone (40%), as above; siltstone (20%), as above. A few chips of ironstone, brown, sublithographic. Fracture with white, finely crystalline anhydrite.
- 5280' - 5290' Shale (60%), grey and dark grey, micromicaceous, in part silty, with carbonaceous specks; silt (30%), dark grey, indurated, micaceous, in part ironstone cemented; sandstone (10%), as above. Few chips ironstone, brown, sublithographic.
- 5290' - 5300' Silt (35%), as above, without ironstone cement; sandstone (35%), as above; shale (30%), as above.
- 5300' - 5320' Sandstone (70%), grey to dark grey, very fine to fine grained, quartz-chert-few white specks and carbonaceous specks, subangular, well sorted, silica and argillaceous cement; shale (30%), dark grey, micromicaceous, a few carbonaceous specks. Several quartz-filled fractures. A few chips of ironstone, brown, sublithographic.
- 5320' - 5340' Shale (40%), dark grey, micromicaceous, with dustlike pyrite; sandstone (40%), as above; silt (20%), grey to dark grey, indurated, argillaceous. Fractures filled with white, finely crystalline anhydrite. Few chips ironstone, brown, sublithographic.
- 5340' - 5350' Shale (60%), grey to dark grey, micromicaceous, with a few carbonaceous specks, in part with dustlike pyrite; sandstone (40%), grey to dark grey, very fine grained, quartz-chert with a few white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 5350' - 5360' Shale (50%), as above; sandstone (50%), as above. Several fractures filled with quartz and dolomite. A few chips of ironstone, brown, sublithographic.
- 5360' - 5370' Shale (50%), as above; sandstone (35%), as above; silt (15%), grey and dark grey, indurated, with a few white specks.
- 5370' - 5390' Sandstone (60%), as above; shale (30%), as above, with a fracture filled with white, finely crystalline anhydrite; silt (10%), dark grey, indurated, with a few white and carbonaceous specks. A few chips of ironstone, brown, sublithographic.

- 5390' - 5400' Sandstone (90%), grey to dark grey, very fine to fine grained, quartz-chert with a few white specks and carbonaceous specks, subangular, well sorted. silica-argillaceous cement; shale (10%), dark grey, micromicaceous, in part with dustlike pyrite. A few chips ironstone, brown, sublithographic.
- 5400' - 5410' Sandstone (50%), as above; shale (30%), as above; siltstone (20%), grey to dark grey, indurated, with a few white specks, micaceous. A number of chips of ironstone, brown, sublithographic.
- 5410' - 5420' Shale (65%), grey to dark grey, micromicaceous, with a few carbonaceous specks; sandstone (35%), grey, very fine grained, quartz-chert with a few white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement.
- 5420' - 5430' As above sample. A few chips of ironstone, brown, sublithographic, in part arenaceous.
- 5430' - 5440' As above sample 5420' - 5430' but several chips of sandstone grade to medium grained and poorly sorted.
- 5440' - 5470' Shale (60%), grey to dark grey, micromicaceous, in part with dustlike pyrite and in part with a few carbonaceous specks; silt (20%), dark grey, indurated, argillaceous, with a few white specks; sandstone (20%), as above.
5450' - 5470' A few chips ironstone, brown, sublithographic. A few fractures filled with primary and secondary anhydrite.
- 5470' - 5490' Sandstone (65%), grey, very fine grained, quartz-chert with a few white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement; shale (35%), grey to dark grey, micromicaceous. A few chips of ironstone, brown, sublithographic. Several fractures filled with white quartz.
- 5490' - 5510' Shale (50%), grey to dark grey, micromicaceous; silt (25%), dark grey, indurated, micaceous, with carbonaceous specks, in part argillaceous; sandstone (25%), grey, very fine to medium grained, quartz-chert, subangular, well to poorly sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. Several fractures filled with white, finely crystalline anhydrite.
- 5510' - 5520' Shale (70%), grey to dark grey, micromicaceous, with several chips slickensided; silt (10%), grey, indurated, with dustlike white specks; sandstone (20%), grey, very fine to fine grained, quartz-chert with white specks, well sorted, silica-argillaceous cement.
- 5520' - 5530' Shale (70%), as above; silt (20%), as above; sandstone (20%), as above.

- 5530' - 5540' Shale (70%), as above, with a few carbonaceous traces; siltstone (15%), as above; sandstone (15%), as above; in part with carbonaceous specks. A few chips of ironstone, brown, sublithographic.
- 5540' - 5550' Shale (65%), grey, micromicaceous, a few chips slickensided; sandstone (25%), as above 5530' - 5540'; silt (10%), as above. A few chips of ironstone, brown, sublithographic. Tarlike rounded pieces from mud additive gilsonite.
- 5550' - 5570' Shale (50%), grey to dark grey, micromicaceous, with a few carbonaceous specks; sandstone (35%), grey, very fine grained, quartz-chert, with a few white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement; silt (15%), grey, indurated, with dustlike white specks. Few chips ironstone, brown, sublithographic.
- 5570' - 5580' Shale (65%), dark grey, micromicaceous, a few carbonaceous specks and traces; sandstone (25%), as above; silt (10%), as above, with carbonaceous specks.
- 5580' - 5590' Shale (80%), as above; silt (10%), as above; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic. Gilsonite tar present from mud additives.
- 5590' - 5600' Sandstone (60%), grey, very fine grained, to fine grained, (one chip medium grained), quartz-chert, subangular, well sorted, silica-argillaceous cement, with some white specks; shale (30%), grey, micromicaceous, a few chips slickensided, a few carbonaceous traces; silt (10%), grey, indurated, with dustlike white specks. A few chips of ironstone, brown, sublithographic.
- 5600' - 5610' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above. Sample very poor with flakes of rig paint. A few chips of ironstone, brown, sublithographic.
- 5610' - 5650' Shale (60%), grey, micromicaceous; silt (20%), as above; sandstone (20%), as above. Several fractures, one of which is filled with quartz and dolomite and another with white, finely crystalline dolomite which has also dolomitized the sandstone wallrock to a depth of at least one millimetre.
- 5650' - 5660' Shale (80%), grey, micromicaceous, with a few carbonaceous specks, a few chips slickensided; silt (10%), grey, indurated, with white specks and carbonaceous specks; sandstone (10%), grey, very fine to fine grained, quartz and chert with white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement. Few chips ironstone, brown, sublithographic.

- 5660' - 5670' Shale (60%), as above; sandstone (30%), as above, in part micaceous; silt (10%), as above.
- 5670' - 5680' Shale (40%), as above; sandstone (40%), as above; silt (20%), as above.
- 5680' - 5690' Sandstone (50%), as above; silt (25%), as above, argillaceous in part; shale (25%), as above.
- 5690' - 5700' Shale (40%), as above; silt (30%), as above; sandstone (30%), as above.
A few chips of ironstone, brown, sublithographic.
- 5700' - 5710' Sandstone (70%), grey to dark grey, very fine grained, quartz-chert-white specks, subangular, well sorted, silica-argillaceous cement; shale (30%), grey to dark grey, micromicaceous, in part silty, in part arenaceous with fine to medium chert grains.
- 5710' - 5720' Shale (40%), grey, micromicaceous. silt (30%), grey, indurated, micaceous, argillaceous; sandstone (30%), grey, very fine to medium grained, chert and quartz, subangular, poorly sorted, silica-argillaceous-ironstone cement. A few chips of ironstone, brown, sublithographic.
- 5720' - 5730' Shale (70%), grey to dark grey, micromicaceous, with a few carbonaceous specks and interbeds with dustlike pyrite, in part silty; sandstone (30%), grey, very fine to fine grained, chert and quartz, very argillaceous in part, subangular, poorly sorted in part, silica-argillaceous cement. A few chips of ironstone. Several fractures filled with white, finely crystalline anhydrite.
- 5730' - 5740' Shale (60%), grey, micromicaceous, in part slickensided, with a few carbonaceous specks, in part with abundant dustlike pyrite; sandstone (40%), grey to dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement.
- 5740' - 5750' As above sample but sandstone grading to fine grained.
- 5750' - 5760' Shale (70%), grey, micromicaceous, in part with carbonaceous specks, in part very silty, with a few chips with dustlike pyrite; sandstone (30%), grey, very fine to medium grained, chert and quartz, subangular, in part poorly sorted, silica-argillaceous ironstone cement. Several fractures filled with quartz and/or white, finely crystalline dolomite.
- 5760' - 5770' Shale (40%), grey to dark grey, micromicaceous, in part carbonaceous, in part silty; silt (40%), grey to dark grey, indurated, in part carbonaceous, a few white specks; sandstone (20%), as above sample, but grading to coarse grained.

- 5770' - 5780' Shale (60%), grey, micromicaceous, a few carbonaceous specks, in part silty or arenaceous; sandstone (40%), grey, very fine to coarse grained, chert and quartz, subangular, poorly sorted, silica-argillaceous-ironstone cement. Prominent fractures filled with quartz.
- 5780' - 5790' Silt (35%), grey to dark grey, indurated, micaceous, in part carbonaceous, in part with white specks; shale (35%), grey to dark grey, micromicaceous, in part silty, in part with dustlike pyrite; sandstone (30%), as above. Prominent fractures filled with comb-in-comb quartz crystals.
- 5790' - 5800' Sandstone (70%), grey, fine to coarse grained, chert and quartz, subangular, poorly sorted, silica-ironstone-dolomite-argillaceous cement; silt (15%), as above; shale (15%), as above. Prominent fractures filled with quartz.
- 5800' - 5840' As above sample but sandstone grading to very coarse grained. Several fractures filled with white, finely crystalline anhydrite.
- 5840' - 5850' Sandstone (80%), as above but grading to medium grained; shale (20%), grey to dark grey, micromicaceous, in part with dustlike pyrite. Few chips ironstone, brown, sublithographic.
- 5850' - 5860' Sandstone (70%), as above but grading to coarse grained; silt (15%), dark grey, indurated; shale (15%), as above. Several anhydrite-filled fractures, and quartz-filled fractures.
- 5860' - 5870' Sandstone (65%), grey, fine to coarse grained, chert and quartz, subangular, poorly sorted in part, silica-ironstone-dolomite-argillaceous cement; shale (35%), grey to dark grey, a few carbonaceous specks, micromicaceous, in part silty. Quartz and dolomite filled fractures.
- 5870' - 5890' Shale (60%), as above; sandstone (40%), as above but grading to medium grained. A few chips of ironstone, brown, sublithographic.
- 5890' - 5900' Sandstone (70%), as above sample 5870' - 5890' but very argillaceous in part; shale (30%), as above.
- 5900' - 5910' Shale (50%), grey, micromicaceous, in part very silty; sandstone (50%), grey, fine to medium grained, quartz-chert, subangular, poorly sorted in part, silica-ironstone-dolomite-argillaceous cement.
- 5910' - 5920' Sandstone (50%), as above sample; shale (30%), as above; silt (20%), grey to dark grey, indurated, in part carbonaceous.

- 5920' - 5930' Sandstone (40%), as above; silt (40%), as above; shale (20%), as above.
- 5930' - 5940' Shale (40%), dark grey, micromicaceous; silt (40%), dark grey, indurated, micaceous, dustlike white specks; sandstone (20%), dark grey, very fine to fine grained, chert and quartz, a few carbonaceous traces, subangular, medium sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 5940' - 5950' Shale (50%), as above; silt (30%), as above; sandstone (20%), as above.
- 5950' - 5960' Silt (50%), as above; shale (35%), as above; sandstone (15%), as above.
- 5960' - 5970' Shale (40%), as above; silt (40%), as above; sandstone (20%), as above.
- 5970' - 5980' Shale (55%), as above; sandstone (35%), grey, very fine to medium grained, chert and quartz and white specks, subangular, well to poorly sorted, silica-argillaceous-dolomite-ironstone cement; silt (10%), as above. A few chips of ironstone, brown, sublithographic.
- 5980' - 6000' Shale (35%), as above; silt (35%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic.
- 6000' - 6020' Sandstone (50%), as above; shale (40%), dark grey, micromicaceous, with carbonaceous specks; silt (10%), dark grey, indurated, argillaceous. A few chips of ironstone, brown, sublithographic.
- 6020' - 6030' Shale (50%), as above; sandstone (30%), as above; silt (20%), as above.
- 6030' - 6040' Sandstone (50%), as above; shale (30%), as above; silt (20%), as above.
- 6040' - 6090' Shale (35%), grey to dark grey, micromicaceous, in part with carbonaceous specks, in part with dustlike pyrite; silt (30%), grey, indurated, with dustlike white specks; sandstone (30%), grey, very fine to medium grained, chert-quartz-phlogopite-white specks, subangular, well to poorly sorted, silica-dolomite-argillaceous-ironstone cement. Few quartz filled fractures. A few chips ironstone, brown, sublithographic.
- 6090' - 6120' Shale (60%), light grey with phlogopite, grey and dark grey, in part micromicaceous, in part with dustlike pyrite; silt (20%), dark grey, indurated, with dustlike white specks, with carbonaceous traces; sandstone (20%), as above with a few pyrite specks and phlogopite specks. Fractures filled with quartz and white, finely crystalline dolomite.

- 6120' - 6130' Shale (60%), dark grey, micromicaceous, a few carbonaceous specks, a little dustlike pyrite; silt (20%), dark grey, indurated; sandstone (20%), dark grey, very fine to fine grained, chert-quartz with white specks and carbonaceous specks, subangular, well sorted, silica-argillaceous cement. A few chips of shale, light grey, with phlogopite, in part silty, in part arenaceous. A few chips of ironstone, brown, sublithographic.
- 6130' - 6140' Shale (70%), as above; silt (30%), dark grey, indurated, in part very carbonaceous and argillaceous.
- 6140' - 6150' Shale (80%), dark grey, micromicaceous, with a few carbonaceous specks, in part with abundant dustlike pyrite, in part silty, in part arenaceous; sandstone (20%), dark grey, very fine grained, chert-quartz-carbonaceous specks, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 6150' - 6160' As above sample but sandstone grades to fine grained.
- 6160' - 6180' Shale (90%), as above; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic. A few fractures filled with quartz with or without white, finely crystalline dolomite.
- 6180' - 6190' Shale (80%), grey to dark grey, micromicaceous, with a few carbonaceous specks, in part with dustlike pyrite; silt (20%), grey to dark grey, indurated, argillaceous. A few chips of ironstone, brown, sublithographic. Few fractured filled with quartz and white, finely crystalline dolomite.
- 6190' - 6200' Shale (80%), as above; silt (10%), as above; sandstone (10%), grey to dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement. Several quartz-filled fractures.
- 6200' - 6230' Shale (60%), as above; silt (20%), grey, indurated, minute white specks; sandstone (20%), grey to dark grey, very fine grained, quartz-chert-in part carbonaceous specks, subangular, well sorted, silica-argillaceous-dolomite cement.
- 6230' - 6250' Shale (70%), grey to dark grey, micromicaceous, with a few carbonaceous specks; silt (30%), dark grey, indurated, in part slightly carbonaceous, in part argillaceous, in part arenaceous.
- 6240' - 6250' A few chips ironstone, brown, sublithographic.

- 6250' - 6260' Shale (50%), dark grey, micromicaceous, a few carbonaceous specks, in part silty; silt (35%), as above, in part with dustlike white specks; sandstone (15%), grey to dark grey, fine to medium grained, quartz and chert, subangular, well to poorly sorted, silica-argillaceous-ironstone-dolomite cement. A few chips of ironstone, brown, sublithographic. Several quartz filled fractures.
- 6260' - 6270' Shale (80%), as above; silt (10%), as above; sandstone (10%), as above.
- 6270' - 6280' Shale (70%), dark grey, micromicaceous, in part with a few carbonaceous specks; silt (15%), grey, indurated; sandstone (15%), grey to buff, fine to medium grained, quartz and chert, subangular, well to poorly sorted, silica-ironstone-dolomite-argillaceous cement. A few chips of ironstone, brown, sublithographic. Several quartz filled fractures.
- 6280' - 6300' Shale (60%), as above; sandstone (30%), as above; silt (10%), as above. Ironstone and quartz as above.
- 6300' - 6310' Shale (80%), dark grey, micromicaceous, with a few carbonaceous specks, in part silty and arenaceous; silt (10%), as above; sandstone (10%), as above.
- 6310' - 6320' Shale (60%), as above; sandstone (40%), dark grey, fine grained, quartz and chert, subangular, well sorted, argillaceous and silica cement. A few chips of ironstone, brown, sublithographic.
- 6320' - 6330' Shale (60%), as above; sandstone (40%), grey to dark grey, very fine to medium grained, quartz and chert, subangular, well to poorly sorted, silica-argillaceous-dolomite cemented. Several quartz filled fractures. A few chips of ironstone, brown, sublithographic.
- 6330' - 6360' Shale (60%), as above; sandstone (30%), as above but very fine to fine grained; silt (10%), grey, indurated, with dustlike white specks, with a rare red speck. A few chips of ironstone, brown, sublithographic.
- 6360' - 6370' Shale (60%), grey to dark grey, micromicaceous, with a few carbonaceous specks; silt (20%), grey, indurated, dustlike white specks; sandstone (20%), dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 6370' - 6390' Shale (50%), grey to dark grey, micromicaceous with a few carbonaceous specks; silt (10%), grey, indurated, dustlike white specks; sandstone (40%), dark grey, very fine to fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-dolomite cemented. Few chips of ironstone, brown, sublithographic. Fractures filled with anhydrite, white, finely crystalline.

- 6390' - 6400' Shale (50%), as above; sandstone (50%), as above with fine white specks and some ironstone cement. A few chips of ironstone, brown, sublithographic.
- 6400' - 6410' Shale (40%), grey to dark grey, micromicaceous, a few carbonaceous specks, trace of dustlike pyrite; silt (40%), grey, indurated, dustlike white specks, carbonaceous specks; sandstone (20%), grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-dolomite cement. A number of chips of ironstone, brown, sublithographic.
- 6410' - 6420' Shale (50%), as above; silt (15%), as above; sandstone (35%), as above but very fine to fine grained. Fractures filled with anhydrite, white, finely crystalline and quartz with white, finely crystalline dolomite. One chip of bentonite, buff, calcium type, with abundant phlogopite flakes.
- 6420' - 6430' Shale (75%), as above; sandstone (25%), as above. Few chips ironstone, brown, sublithographic. Anhydrite-filled fracture.
- 6430' - 6440' Shale (40%), as above; silt (30%), grey, indurated, white specks; sandstone (30%), grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-dolomite-argillaceous, cement. Quartz and dolomite filled fractures.
- 6440' - 6450' Sandstone (60%), grey, very fine to fine grained, quartz-chert-white specks, subangular, well sorted, silica-argillaceous-dolomite cement; silt (10%), dark grey, indurated, argillaceous; shale (30%), as above.
- 6450' - 6460' Shale (50%), grey to dark grey, micromicaceous; sandstone (30%), as above; silt (20%), as above. A few chips of ironstone, brown, sublithographic. Quartz filled fractures.
- 6460' - 6490' Sandstone (40%), as above; shale (40%), as above; silt (10%), as above. Few chips of ironstone, brown, sublithographic.
- 6490' - 6500' Shale (60%), dark grey, micromicaceous; silt (10%), dark grey, indurated, argillaceous, dustlike white specks; sandstone (30%), dark grey, very fine to fine grained, quartz-chert-carbonaceous specks, silica-argillaceous cement. Few chips ironstone, brown, sublithographic. Quartz-dolomite filled fractures.
- 6500' - 6510' Shale (75%), as above but also grey; silt (10%), dark grey, indurated, argillaceous; sandstone (15%), as above. A number of chips of ironstone, brown, sublithographic.
- 6510' - 6520' Shale (75%), as above but also grey; sandstone (25%), as above. A number of chips of ironstone, brown, sublithographic.

- 6520' - 6530' Shale (85%), as above but also grey; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic.
- 6530' - 6540' Shale (70%), as above but also grey; silt (15%), dark grey, indurated, argillaceous, dustlike white specks; sandstone (15%), as above. Few chips ironstone, brown, sublithographic.
- 6540' - 6550' Shale (50%), grey to dark grey, micromicaceous, with a few carbonaceous specks; sandstone (35%), grey, very fine to fine grained, quartz and chert, subangular, well sorted, silica-dolomite, argillaceous cement; silt (15%), grey to dark grey, indurated, a few white specks. A few chips ironstone, brown, sublithographic. One chip of massive pyrite.
- 6550' - 6560' Shale (70%), as above plus several chips very arenaceous; silt (15%), as above; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic.
- 6560' - 6570' Shale (65%), grey to dark grey, micromicaceous, with a few carbonaceous traces; sandstone (35%), grey to dark grey, very fine to fine grained, quartz-chert-carbonaceous specks, subangular, well sorted, silica-dolomite-argillaceous cement. Several dolomite filled fractures.
- 6570' - 6580' Shale (60%), as above; silt (10%), grey, indurated, white specks; sandstone (30%), as above.
- 6580' - 6590' Shale (40%), as above; silt (30%), as above; sandstone (30%), as above. Several chips ironstone, brown, sublithographic. Several dolomite filled fractures.
- 6590' - 6620' Sandstone (60%), grey, very fine to fine grained, quartz and chert, a few white specks and carbonaceous specks, subangular, well sorted, silica-dolomite-argillaceous cement; shale (40%), as above. A few chips of ironstone, brown, sublithographic. Several quartz and dolomite filled fractures.
- 6620' - 6640' Shale (50%), as above; sandstone (50%), as above. A few chips of ironstone, brown, sublithographic.
- 6640' - 6650' Shale (50%), grey to dark grey, micromicaceous; silt (15%), grey, indurated, with a few white specks and carbonaceous specks; sandstone (35%), as above. A few chips of ironstone, brown, sublithographic.
- 6650' - 6670' Shale (75%), as above; sandstone (25%), as above. A few chips of ironstone, brown, sublithographic.
6660' - 6670' Much gilsonite from mud.

- 6670' - 6680' Shale (60%), as above; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert, a few white specks and carbonaceous specks, subangular, well sorted, silica-dolomite-argillaceous cement. A few chips of ironstone, brown, sublithographic.
- 6680' - 6690' Shale (70%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic.
- 6690' - 6700' Shale (80%), grey to dark grey, micromicaceous with a few carbonaceous specks, several chips with dustlike pyrite; silt (10%), grey, indurated; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic.
- 6700' - 6720' Shale (60%), as above; silt (15%), as above; sandstone (25%), as above. Few chips of ironstone, as above.
- 6720' - 6740' Shale (50%), as above but more pyrite; silt (10%), as above; sandstone (40%), as above, but white specks common. A few chips of ironstone, brown, sublithographic.
- 6740' - 6750' Shale (60%), as above; silt (10%), as above; sandstone (30%), as in sample 6720' - 6740'. Several chips of ironstone, brown, sublithographic. Fractures filled first with dolomite and then with quartz.
- 6750' - 6760' Shale (50%), grey to dark grey, micromicaceous, with thin interbeds with carbonaceous specks and a few pyrite blebs; silt (10%), as above; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert-a few carbonaceous and white specks, subangular, well sorted, silica-argillaceous-dolomite cement. Several quartz filled fractures.
- 6760' - 6770' Shale (70%), as above; silt (15%), as above; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic.
- 6770' - 6780' Shale (65%), as above; silt (10%), as above; sandstone (25%), as above. Several fractures filled with white quartz and white finely crystalline dolomite.
- 6780' - 6800' Shale (75%), as above; silt (10%), as above; sandstone (15%), grey to dark grey, very fine grained, quartz-chert with a few carbonaceous and white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 6800' - 6810' Shale (90%), as above, with pyritized lenses; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic.
- 6810' - 6820' Shale (50%), grey to dark grey, micromicaceous, a few carbonaceous traces; silt (10%), as above; sandstone (40%), as above. A few chips of ironstone, brown, sublithographic.
- 6820' - 6830' Sandstone (60%), as above; silt (10%), as above; shale (30%), as above with pyritized lenses. Several quartz-filled fractures.

- 6830' - 6850' Shale (60%), as above; silt (10%), as above; sandstone (30%), as above.
- 6850' - 6860' As above but very poor sample after trip for bit.
- 6860' - 6870' Shale (60%), dark grey, micromicaceous, in part fissile; silt (20%), grey, indurated, dustlike white specks; sandstone (20%), grey to dark grey, very fine to fine grained, quartz-chert-white specks, subangular, well sorted, silica-argillaceous-dolomite cement. Few chips of ironstone, brown, sublithographic. One fracture filled with quartz-dolomite-pyrite.
- 6870' - 6890' Shale (50%), grey to dark grey, micromicaceous, with dustlike pyrite, in part silty and carbonaceous; silt (25%), as above; sandstone (25%), as above. Several quartz and dolomite filled fractures. Abundant gilsonite from mud.
6880' - 6890' A few chips of ironstone, brown, sublithographic.
- 6890' - 6900' Shale (70%), as above but only trace of carbonaceous specks; sandstone (30%), as above. Ironstone, brown, sublithographic common.
- 6900' - 6910' Shale (70%), as above 6890' - 6900'; silt (20%), grey, indurated, dustlike white specks; sandstone (10%), as above. Few chips ironstone, brown, sublithographic.
- 6910' - 6920' Shale (70%), grey to dark grey, micromicaceous, a few carbonaceous traces, in part fissile; silt (10%), as above; sandstone (20%), grey, very fine to medium grained, quartz-chert, subangular, medium sorted, silica-argillaceous-dolomite cement. One fracture filled with dolomite and secondary anhydrite.
- 6920' - 6930' Shale (70%), as above; silt (10%), as above; sandstone (20%), as above but grading from very fine to fine grained. A few chips of ironstone, brown, sublithographic. Several quartz and dolomite filled fractures.
- 6930' - 6950' Shale (60%), as above; silt (10%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic.
- 6950' - 6970' Shale (75%), grey to dark grey, micromicaceous, in part with carbonaceous specks, in part with dustlike pyrite; sandstone (25%), dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 6970' - 6980' Shale (60%), grey to dark grey, micromicaceous, in part with a few carbonaceous specks, in part with dustlike pyrite; silt (20%), grey, indurated; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.

- 6980' - 7030' Shale (70%), as above; silt (15%), as above; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic. 6990' - 7000' A few chips of sandstone contain small clumps of minute pyrite spheres.
- 7030' - 7060' Shale (60%), as above; silt (10%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic. A few fractures filled with quartz and white, finely crystalline dolomite.
- 7060' - 7070' Shale (50%), grey to dark grey, micromicaceous, in part with a few carbonaceous specks; silt (25%), grey, indurated, with dustlike white specks; sandstone (25%), grey, very fine to medium grained, quartz-chert- with a few white specks and pyrite spheres, subangular, poor to well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 7070' - 7090' Shale (70%), as above; silt (15%), as above; sandstone (15%), as above but fine grained. A few chips of ironstone, brown, sublithographic. A few quartz and white, finely crystalline dolomite, filling fractures.
- 7090' - 7100' Shale (80%), as above; silt (10%), as above; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic.
- 7100' - 7110' Shale (60%), grey to dark grey, micromicaceous, a few carbonaceous specks, several chips with abundant dustlike pyrite; silt (10%), grey, indurated, sandstone (30%), as above 7070' - 7090'. A few chips of ironstone, brown, sublithographic.
- 7110' - 7130' Shale (80%), as above; silt (10%), as above; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic. 7120' - 7130' A few chips of sandstone with ironstone cement.
- 7130' - 7150' Shale (90%), as above; sandstone (10%), as above.
- 7150' - 7160' Shale (60%), grey to dark grey, micromicaceous, with a few carbonaceous specks and dustlike pyrite; silt (10%), grey, indurated; sandstone (30%), grey, very fine to fine grained, quartz-chert-a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic. An occasional chip of shale, slickensided.
- 7160' - 7210' Shale (75%), as above with a few pyrite blebs; sandstone (25%), as above. A few chips of ironstone, brown, sublithographic. One or two chips of sandstone, fine to medium grained.
- 7210' - 7230' Shale (75%), grey to dark grey, micromicaceous, a few carbonaceous specks and lenses with dustlike pyrite; silt (15%), grey, indurated; sandstone (10%), as above. A few chips ironstone, brown, sublithographic.

- 7230' - 7240' Shale (60%), as above; sandstone (40%), grey, very fine to fine grained with several chips medium grained, quartz-chert-white specks, subangular, well sorted. silica-argillaceous-dolomite cement. Few chips of ironstone, brown, sublithographic. A few fractures with quartz and dolomite filling.
- 7240' - 7270' Shale (75%), grey to dark grey, micromicaceous, with a few carbonaceous specks, in part silty; sandstone (25%), grey, very fine to fine grained, as above. A few chips of ironstone, brown, sublithographic. Several quartz and dolomite filled fractures.
- 7270' - 7280' Shale (50%), as above; silt (10%), grey, indurated; sandstone (40%), grey, very fine to fine grained, quartz-chert-a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 7280' - 7290' As above sample but sandstone grading in part to medium grained, with minor ironstone cement. Abundant gilsonite, from mud, sticking sample chips together.
- 7290' - 7300' Sandstone (40%), dark grey, very fine to fine grained, quartz-chert-carbonaceous specks, subangular, well to medium sorted, argillaceous-silica dolomite cement; shale (40%), grey to dark grey, in part silty, in part with dustlike pyrite; silt (20%), grey, indurated, a few white specks. A few chips of ironstone, brown, sublithographic. Abundant gilsonite.
- 7300' - 7310' Shale (60%), grey to dark grey, micromicaceous, with a few carbonaceous specks, in part silty; sandstone (30%), dark grey, very fine grained, quartz-chert-a few white specks, subangular, well sorted, argillaceous-silica-dolomite cement; silt (10%), as above. Several fractures filled with quartz and dolomite. Gilsonite common.
- 7310' - 7330' Shale (70%), grey to dark grey, micromicaceous, in part silty, in part a few carbonaceous specks; sandstone (30%), as above sample.
7300' - 7310' Gilsonite common.
- At 7337' tripped for bit and couldn't get within 100' of bottom. Had difficulty getting unstuck and out of hole. Spent 6 days redrilling and cleaning from 5720' to bottom with much torqueing and sticking. The samples show considerable gilsonite below 7340', although the last gilsonite was added to the mud over a week previously, thus, the sample quality below 7340' is poor.
- 7330' - 7340' Shale (80%), dark grey, micromicaceous with a few chips micaceous, a few carbonaceous specks; silt (20%), dark grey, indurated with a few white specks.

- 7340' - 7350' Sandstone (60%), dark grey, very fine grained, quartz-chert, subangular, well sorted, argillaceous-silica-dolomite cement; shale (40%), grey to dark grey, micromicaceous, in part silty. A number of chips of ironstone, brown, sublithographic. Considerable gilsonite.
- 7350' - 7360' As above sample but sandstone is very fine to fine grained, in part medium sorted with a few white specks.
- 7360' - 7370' Shale (70%), grey to dark grey, micromicaceous, in part with abundant carbonaceous specks; silt (15%), grey, indurated; sandstone (15%), dark grey, very fine to fine grained, quartz-chert-a few carbonaceous specks, subangular, well to medium sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 7370' - 7380' Shale (65%), grey to dark grey, micromicaceous, in part silty; sandstone (35%), dark grey, very fine to medium grained, chert-quartz with a few white specks, subangular, well to medium sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, brown, subangular.
- 7380' - 7390' Shale (40%), grey to dark grey, micromicaceous; silt (30%), dark grey, indurated; sandstone (30%), grey to dark grey, very fine grained, quartz-chert, subangular, well sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, brown, sublithographic. Fractures filled with quartz and dolomite.
- 7390' - 7400' As above sample except several chips of sandstone grade to medium grained and are poorly sorted, plus being predominately chert. Fractures filled with quartz and dolomite.
- 7400' - 7420' Shale (65%), grey to dark grey, micromicaceous, with a few carbonaceous specks; sandstone (35%), dark grey, very fine grained, chert-quartz, subangular, well sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, brown, sublithographic.
- Fault 7420'
- 7420' - 7440' Shale (50%), dark grey, micromicaceous, a few carbonaceous specks, with abundant slickensiding; sandstone (50%), dark grey, very fine to fine grained, chert-quartz- subangular, well to medium sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 7440' - 7450' Shale (80%), grey-brown-dark grey, micromicaceous, with a few carbonaceous specks, in part slickensided; sandstone (20%), as above but well sorted.
- 7450' - 7470' Shale (70%), dark grey, micromicaceous, a few chips slickensided; sandstone (30%), dark grey, very fine to fine grained, chert-quartz, subangular, well sorted, argillaceous-silica-dolomite cement. Gilsonite still common.

- 7470' - 7490' Shale (70%), as above but in part silty and micaceous, a few chips slickensided; sandstone (30%), as above. A few fractures filled with quartz and dolomite.
- 7490' - 7500' Shale (50%), dark grey, micromicaceous, in part with a few carbonaceous specks, in part silty, in part with dustlike pyrite; sandstone (30%), dark grey, as above; silt (20%), dark grey, indurated, with a few white specks.
- 7500' - 7510' As above sample but a few chips of sandstone grading to medium grained and medium sorted.
- 7510' - 7540' Sandstone (60%), grey to dark grey, very fine to medium grained, chert-quartz-carbonaceous specks, in part micaceous, subangular, well to medium sorted, argillaceous-silica-dolomite cemented; shale (40%), grey to grey-brown, micromicaceous, with a few carbonaceous specks, in part slickensided. A few fractures filled with quartz and dolomite. Gilsonite common.
- 7540' - 7560' Shale (80%), grey to dark grey, micromicaceous, with a few carbonaceous specks and traces, in part slickensided; sandstone (20%), grey to dark grey, very fine to fine grained, chert-quartz-white specks, in part carbonaceous, a few green chert grains, subangular, well sorted, argillaceous-silica-dolomite cemented.
7550' - 7560' A few chips of ironstone, brown, sublithographic.
- 7560' - 7570' Shale (50%), dark grey, micromicaceous, a few carbonaceous specks; sandstone (50%), as above. Considerable gilsonite.
- 7570' - 7590' Shale (50%), as above; sandstone (50%), dark grey, very fine to fine grained, chert-quartz-carbonaceous, subangular, well sorted, argillaceous-silica-dolomite cement. Considerable gilsonite. Fractures filled with buff, lithographic anhydrite and quartz.
- 7590' - 7600' Shale (50%), grey to dark grey, micromicaceous in part slickensided, in part silty; silt (30%), grey to dark grey, indurated, a few white specks; sandstone (20%), grey to dark grey, as above. Considerable gilsonite.
- 7600' - 7610' Shale (70%), as above; silt (20%), as above; sandstone (10%), as above. Considerable gilsonite.
- 7610' - 7620' As above sample. A few chips of ironstone, brown, sublithographic. Considerable gilsonite. One chip of limestone, grey, finely crystalline.
- 7620' - 7630' Shale (40%), grey to dark grey, micromicaceous, with a few carbonaceous specks, in part slickensided; sandstone (40%), grey to dark grey, very fine to fine grained, chert-quartz-carbonaceous specks, subangular, well sorted, argillaceous, silica-dolomite cement; silt (20%), grey to dark grey, indurated, in part argillaceous, a few white specks. Considerable gilsonite.

- 7630' - 7650' Shale (60%), grey to dark grey, micromicaceous, a few carbonaceous specks, in part silty, in part slickensided; sandstone (40%), as above. A few chips of ironstone, brown, sublithographic. Considerable gilsonite.
- 7650' - 7660' Shale (85%), as above but very slickensided; sandstone (15%), as above.
- 7660' - 7670' Shale (80%), as above, but in part slickensided; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.
- 7670' - 7680' Shale (60%), as above 7660' - 7670'; sandstone (40%), dark grey, very fine to fine grained, chert-quartz-carbonaceous, subangular, well sorted, argillaceous-silica-dolomite cement. A few fractures filled with white, finely crystalline anhydrite, or quartz and dolomite.
- 7680' - 7690' Sandstone (65%), grey to dark grey, very fine to fine grained, chert-quartz-carbonaceous, subangular, well sorted, argillaceous-silica-dolomite cement; shale (35%), grey to dark grey, in part micromicaceous, in part silty, a little slickensiding. Gilsonite common.
- 7690' - 7700' As above sample but shale has a few carbonaceous traces and sandstone predominantly fine grained. Gilsonite common.
- 7700' - 7710' Shale (60%), grey to dark grey, micromicaceous, in part silty, a little slickensiding; sandstone (40%), as above 7690' - 7700.
- 7710' - 7720' Shale (60%), grey to dark grey, micromicaceous, in part slickensided, in part dustlike pyrite; sandstone (30%), grey to dark grey, fine grained, chert and quartz, subangular, medium sorted, argillaceous-silica-dolomite cement; silt (10%), grey, indurated.
- 7720' - 7730' Shale (60%), as above; sandstone (30%), as above but very fine to fine grained, well to medium sorted; silt (10%), as above. A few chips of ironstone, brown, sublithographic. Fractures lined with dolomite crystals and latter with quartz.
- 7730' - 7740' Shale (60%), as above; sandstone (40%), as above 7720' - 7730'. Fractures as above.
- 7740' - 7750' Shale (90%), grey - grey brown- dark grey, micromicaceous, very slickensided, in part with a few carbonaceous specks; sandstone (10%), as above. This is first sample after a trip. Fault section caving.

- 7750' - 7760' Shale (50%), grey - dark grey, micromicaceous, in part slickensided, in part silty, a few carbonaceous specks; sandstone (50%), grey to dark grey, very fine to fine grained, chert-quartz-a few white specks, subangular, well sorted, argillaceous-silica-dolomite cement (one chip with ironstone cement).
- 7760' - 7770' Shale (70%), grey to dark grey, micromicaceous, in part slickensided, in part silty, in part a few carbonaceous specks; sandstone (30%), grey, very fine to fine grained, chert-quartz-a few white specks, subangular, well sorted, argillaceous-silica-dolomite cement. A few chips ironstone, brown, sublithographic.
- 7770' - 7780' As above sample but no ironstone.
- 7780' - 7790' Shale (70%), as above; sandstone (15%), as above; silt (15%), grey, indurated, with white specks.
- 7790' - 7800' Shale (70%), grey to dark grey, micromicaceous, in part slickensided, in part silty, a few carbonaceous specks and traces; sandstone (30%), grey and dark grey, very fine to fine grained, chert-quartz-carbonaceous, subangular, well sorted, argillaceous-silica-dolomite cement.
- 7800' - 7810' Shale (80%), grey and dark grey, as above; sandstone (20%), grey to dark grey, very fine to fine grained, chert and quartz, subangular, well to medium sorted, argillaceous-silica-dolomite cement. Some gilsonite.
- 7810' - 7830' Shale (65%), as above; sandstone (35%), as above. A few chips of ironstone, brown, sublithographic. Gilsonite common.
- 7830' - 7840' Shale, grey to dark grey, micromicaceous, very slickensided, in part silty, a few carbonaceous specks. This is first sample after trip - mostly cavings.
- 7840' - 7850' Shale (90%), as above; sandstone (10%), as above. Very poor sample.
- Note: Trip at 7838' had 268' of fill which took 3 hours to clean. Trip at 7926' required pumping of over 6 singles to come off bottom. Low gels and viscosity of mud permit caves to act as large settling tanks. Sample quality 7850' - 7940' unreliable.
- 7850' - 7890' Shale (70%), as above; sandstone (30%), as above. Fractures filled with quartz. A few chips of ironstone, brown to black, sublithographic. Gilsonite common.
- 7890' - 7920' Shale (90%), as above; sandstone (10%), dark grey, very fine to fine grained, chert and quartz, subrounded, well to medium sorted, silica cemented. Samples predominantly cavings. Gilsonite common. Several chips in 7910' - 7920' of black carbon and quartz from a fracture filling.

- 7920' - 7930' Shale (70%), grey to dark grey, micromicaceous, in part slickensided, in part a few carbonaceous specks; sandstone (30%), grey, very fine to fine grained, chert-quartz, subangular, well sorted, a few white specks, silica-argillaceous-dolomite cement. Gilsonite common.
- 7930' - 7960' As above sample but a few chips of ironstone, brown, sublithographic.
- 7960' - 8000' Shale (60%), grey to dark grey, micromicaceous, in part slickensided, in part slightly carbonaceous, in part silty; sandstone (40%), grey and dark grey, very fine to fine grained, chert-quartz-a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few fractures filled with quartz. Gilsonite common.
- 8000' - 8010' Shale (85%), as above; sandstone (15%), as above. Abundant cavings as first sample after trip.
- 8010' - 8020' Shale (90%), grey to dark grey, micromicaceous, in part silty and slightly arenaceous, in part a few carbonaceous specks; sandstone (10%), grey to dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 8020' - 8030' Shale (70%), as above; sandstone (30%), dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, argillaceous-silica-dolomite cement. Gilsonite common.
- 8030' - 8050' Shale (80%), as above; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.
- 8050' - 8060' Shale (50%), grey to dark grey, micromicaceous, in part with a few carbonaceous specks; sandstone (50%), dark grey, very fine to fine grained, quartz and chert and a few white specks, subangular, well to medium sorted, argillaceous-silica-dolomite cement. A few chips of ironstone, dark brown, sublithographic.
- 8060' - 8070' Shale (50%), as above but in part silty; sandstone (50%), as above.
- 8070' - 8080' Shale (70%), as above; silt (15%), dark grey, indurated; sandstone (15%), as above. Fractures filled with white, finely crystalline anhydrite.
- 8080' - 8110' Shale (60%), as above; silt (20%), dark grey, indurated, in part very argillaceous; sandstone (20%), as above. Gilsonite common.
- 8110' - 8120' Shale (60%), grey to dark grey, micromicaceous; silt (10%), grey to dark grey, indurated, with white specks; sandstone, (30%), dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Gilsonite common.

- 8120' - 8130' Shale (50%), dark grey, micromicaceous; silt (10%), dark grey, indurated, with white specks; sandstone (40%), dark grey, as above. Gilsonite common. Fractures filled with milky quartz.
- 8130' - 8150' Shale (70%), as above; silt (20%), grey to dark grey, indurated, with white specks; sandstone (10%), as above. Gilsonite common. Fractures filled with milky quartz.
- 8150' - 8160' Shale (60%), grey to dark grey, micromicaceous, in part micaceous and silty; silt (10%), grey to dark grey, indurated, a few white specks; sandstone (30%), grey to dark grey, very fine to fine grained, quartz and chert, a few white specks, subangular, well to medium sorted, silica-argillaceous-dolomite cemented.
- 8160' - 8170' Shale (50%), as above; sandstone (50%), grey to dark grey, as above. A few chips of ironstone, brown, sublithographic.
- 8170' - 8180' Shale (80%), as above; sandstone (20%), as above. This sample taken after a trip.
- 8180' - 8190' Shale (60%), grey to dark grey, micromicaceous, in part very silty, in part with a few carbonaceous specks; sandstone (40%), grey to dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 8190' - 8200' Shale (60%), as above; sandstone (40%), dark grey, very fine to fine grained, quartz-chert- a few white specks, subangular, medium sorted, argillaceous-silica-dolomite cement.
- 8200' - 8210' Shale (70%), as above; sandstone (30%), as above 8190' - 8200'. Gilsonite common. A few chips of ironstone, brown, sublithographic.
- 8210' - 8220' Shale (60%), as above; silt (20%), dark grey, indurated, micaceous, with a few white specks; sandstone (20%), as above. Gilsonite common. A few fractures filled with milky quartz.
- 8220' - 8240' Shale (80%), grey to dark grey, micromicaceous, with a few carbonaceous specks; silt (20%), grey to dark grey, micaceous, indurated grading to very fine grained sandstone, as above. Gilsonite common. A few fractures filled with milky quartz.
- 8240' - 8250' Sandstone (60%), grey to dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Fracture filled with milky quartz and another with pale green, finely crystalline anhydrite. Shale (40%), as above.

- 8250' - 8280' Shale (50%), as above; sandstone (50%), as above. Fractures filled with milky and clear quartz. Gilsonite common.
- 8280' - 8290' Poor sample after a trip for a bit.
- 8290' - 8310' Shale (60%), grey to dark grey, micromicaceous, a few carbonaceous specks; silt (20%), grey to dark grey, indurated, argillaceous; sandstone (20%), as above. Fractures filled with clear and milky quartz. Some gilsonite.
- 8310' - 8330' Shale (50%), grey to dark grey, micromicaceous, in part very silty; sandstone (50%), dark grey, very fine to fine grained with a few medium sized grains imbedded, quartz and chert with a few white specks, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Some gilsonite.
- 8330' - 8350' Shale (60%), as above; sandstone (40%), dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.
- 8350' - 8360' Shale (70%), as above; sandstone (30%), as above. A few chips of ironstone, brown, sublithographic.
- 8360' - 8370' Shale (60%), as above; silt (20%), grey to dark grey, indurated, argillaceous, white specks; sandstone (20%), as above.
- 8370' - 8380' As above. Very poor sample after trip.
- 8380' - 8390' Shale (60%), grey to dark grey, micromicaceous; silt (20%), grey to dark grey, indurated, white specks; sandstone (20%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, dark brown, sublithographic.
- 8390' - 8430' Shale (60%), as above; silt (10%), as above; sandstone (30%), as above. A few fractures filled with quartz.
- 8430' - 8450' Shale (75%), grey to dark grey, micromicaceous, in part slightly silty, in part a few carbonaceous specks; sandstone (25%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz.
- 8450' - 8460' Shale (60%), as above; silt (20%), grey to dark grey, indurated, argillaceous, with white specks; sandstone (20%), as above.
- 8460' - 8470' Shale (60%), grey to dark grey, micromicaceous, with a few white specks; sandstone (40%), as above, with a few white specks.
- 8470' - 8480' Shale (70%), as above; sandstone (30%), as above, but predominantly dark grey and more dolomitic cement.

- 8480' - 8490' Sandstone (60%), dark grey, very fine to fine grained, quartz-chert-mica, subangular, well sorted, silica-argillaceous-dolomite cement; shale (40%), as above, in part silty.
- 8490' - 8510' Shale (70%), grey to dark grey, micromicaceous, in part a few carbonaceous specks; sandstone (30%), as above. A few fractures filled with quartz.
- 8510' - 8520' Shale (60%), as above; sandstone (40%), as above.
- 8520' - 8530' Sandstone (75%), grey to dark grey, very fine to fine grained, quartz-chert- a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement; shale (25%), as above.
- 8530' - 8540' Poor sample after trip for a bit.
- 8540' - 8550' Shale (85%), dark grey, micromicaceous, in part slickensided, with a few chips with dustlike pyrites or spheres of pyrite clusters; sandstone (15%), as above.
- 8550' - 8560' Shale (70%), dark grey, micromicaceous, with a few carbonaceous specks, a few chips with dustlike pyrite; silt (30%), grey to dark grey, indurated, in part argillaceous with some white specks grading to very fine grained sandstone. A few chips of ironstone, brown, sublithographic. Gilsonite common.
- 8560' - 8570' Shale (50%), as above; silt (50%), as above.
- 8570' - 8600' Shale (50%), as above; sandstone (50%), dark grey, very fine grained, quartz and chert, subrounded, well sorted, silica-argillaceous-dolomite cement. A few fractures filled with quartz. A few chips of ironstone, brown, sublithographic.
- 8600' - 8610' Shale (60%), dark grey, micromicaceous, in part silty, with a few carbonaceous specks; sandstone (40%), as above.
- 8610' - 8620' Shale (60%), as above; silt (20%), grey to dark grey, indurated, argillaceous in part; sandstone (20%), as above.
- 8620' - 8630' Shale (40%), as above; silt (40%), as above; sandstone (20%), as above.
- 8630' - 8640' Shale (40%), as above; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert-a few white specks, subangular, well to medium sorted, silica-argillaceous-dolomite cement; silt (20%), as above.
- 8640' - 8650' Shale (70%), as above; sandstone (30%), as above.
- 8650' - 8660' Poor sample after trip for bit.
- 8660' - 8670' Shale (70%), dark grey, micromicaceous; silt (15%), grey to dark grey, indurated, argillaceous; sandstone (15%), as above. A few chips of ironstone, brown, sublithographic.

8670' - 8680' Shale (75%), as above; sandstone (25%), as above.

8680' - 8690' Sandstone (100%), dark grey, very fine to fine grained with a few imbedded medium grains, quartz-chert-a few white specks, subangular, well to poorly sorted, silica-argillaceous-dolomite cement. A few quartz filled fractures.

8690' - 8700' Shale (60%), grey to dark grey, micromicaceous, in part very silty; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz.

8700' - 8710' Shale (70%), grey to dark grey, micromicaceous, in part with a few carbonaceous specks, in part silty; sandstone (30%), as above. A few chips of ironstone, brown, sub-lithographic.

8710' - 8720' Shale (85%), grey to dark grey, micromicaceous, in part slickensided, in part silty, in part with a few carbonaceous specks; sandstone (15%), as above.

8720' - 8730' Shale (60%), as above, but in part indurated; silt (20%), grey to dark grey, indurated, with white specks; sandstone (20%), as above.

8730' - 8740' Shale (80%), grey to dark grey, micromicaceous, in part silty, in part with dustlike pyrite; sandstone (20%), as above.

8740' - 8750' Very poor sample after trip at 8746'.

8750' - 8770' Shale (70%), as above; silt (20%), dark grey, indurated, argillaceous; sandstone (10%), as above.

8770' - 8780' Shale (70%), grey to dark grey, micromicaceous, in part silty and indurated; sandstone (30%), dark grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic.

8780' - 8790' Shale (60%), dark grey, micromicaceous, in part silty; silt (20%), grey, indurated, with white specks; sandstone (20%), as above.

8790' - 8800' Shale (50%), grey to dark grey, micromicaceous, in part silty, a few chips indurated; silt (25%), as above; sandstone (25%), as above.

8800' - 8810' Shale (60%), as above; silt (20%), as above; sandstone (20%), as above. Much cavings.

8810' - 8820' Sandstone (60%), grey to dark grey, very fine grained, chert and quartz, subangular, well sorted, silica-argillaceous-dolomite cement; shale (40%), grey to dark grey, micromicaceous, in part silty, in part slightly slickensided.

- 8820' - 8830' Shale (70%), as above, plus a few chips silica indurated; silt (30%), grey to dark grey, indurated, in part argillaceous, in part with white specks.
- 8830' - 8850' Shale (50%), as above, but in part slickensided; sandstone (50%), grey to dark grey, very fine to fine grained, chert-quartz, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sub-lithographic.
- 8850' - 8860' Shale (70%), as above 8830' - 8850'; sandstone (30%), as above. A few fractures filled with quartz
- Fault 8860'
- 8860' - 8870' Shale (60%), dark grey, micromicaceous, numerous slickensided surfaces, in part siliceous induration; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement with a few white specks and pyrite specks. A few fractures filled with quartz and white, finely crystalline anhydrite.
- 8870' - 8880' Shale (70%), dark grey, micromicaceous, numerous slickensided surfaces, in part silty, in part indurated; silt (15%), dark grey, indurated; sandstone (15%), as above. Fractures filled with quartz and slickensided anhydrite.
- 8880' - 8900' Shale (85%), as above; silt (15%), as above. A few fractures filled with quartz.
- 8900' - 8910' Shale (50%), dark grey, micromicaceous, in part silty; sandstone (50%), dark grey, very fine to fine grained, quartz and chert, a few white specks, well sorted, silica-argillaceous-dolomite cemented. Fractures filled with quartz.
- 8910' - 8920' Sandstone (100%), as above but well to medium sorted.
- 8920' - 8930' Sandstone (70%), as above 8910' - 8920'; shale (30%), dark grey, micromicaceous, in part silty, in part indurated.
- 8930' - 8940' Sandstone (35%), as above; silt (35%), dark grey, indurated; shale (30%), as above.
- 8940' - 8950' Shale (80%), grey to dark grey, micromicaceous, in part slickensided, in part silty; sandstone (20%), as above.
- 8950' - 8960' Shale (70%), as above; silt (10%), grey to dark grey, indurated, in part argillaceous; sandstone (20%), as above.
- 8960' - 8980' Shale (60%), grey to dark grey, micromicaceous, in part silty, in part a few carbonaceous specks, minor slickensiding; sandstone (40%), dark grey, very fine grained, quartz-chert-a few white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic in part argillaceous. A few quartz filled fractures.

8980' - 8990' Shale (80%), dark grey, micromicaceous, a few carbonaceous specks, in part silty, minor slickensiding; sandstone (20%), as above.

8990' - 9020' Shale (90%), as above; sandstone (10%), as above.

9020' - 9040' Shale (80%), as above; sandstone (20%), as above.

9040' - 9050' Shale (90%), grey to dark grey, micromicaceous, in part a few carbonaceous specks, minor slickensiding; sandstone (10%), as above.

9050' - 9100' Shale (70%), as above; sandstone (30%), dark grey, very fine to fine grained, quartz-chert-a few white specks, subangular, well sorted, silica-argillaceous-dolomitic cement. A few chips of ironstone, brown, sublithographic.

9100' - 9120' Shale (90%), as above; sandstone (10%), as above. A few chips of ironstone, brown, sublithographic.

Drilled 9115' - 9116' in 4 minutes. Took 2 separate samples at 90 and 130 minutes circulation and saw only abundant quartz vein filling, one chip of which showed crystal vug lining. Probable fault.

Drilled 9118' - 9119' in 3 minutes. Took separate samples as above, one of which showed chips of anthracite coal.

9120' - 9130' Shale (90%), grey to dark grey, micromicaceous, a few carbonaceous specks; sandstone (10%), as above.

9130' - 9140' Shale (60%), as above; sandstone (40%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement.

9140' - 9160' Shale (80%), as above; sandstone (20%), as above. A few quartz-filled fractures.

9160' - 9170' Shale (60%), dark grey, micromicaceous, in part silty, some slickensiding, a few carbonaceous specks; sandstone (40%), dark grey, very fine to fine grained, quartz-chert, a few white specks, subangular, well to medium sorted, silica-argillaceous-dolomite cement.

9170' - 9180' Very poor sample after trip.

9180' - 9190' As above sample 9160' - 9170'.

9190' - 9200' Shale (75%), as above; sandstone (25%), as above. One chip of grey bentonite (sodium type).

9200' - 9210' Shale (90%), as above; sandstone (10%), as above.

9210' - 9220' Shale (80%), dark grey, micromicaceous; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.

9220' - 9240'

Shale (80%), dark grey, micromicaceous, in part silty, minor slickensiding; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic.

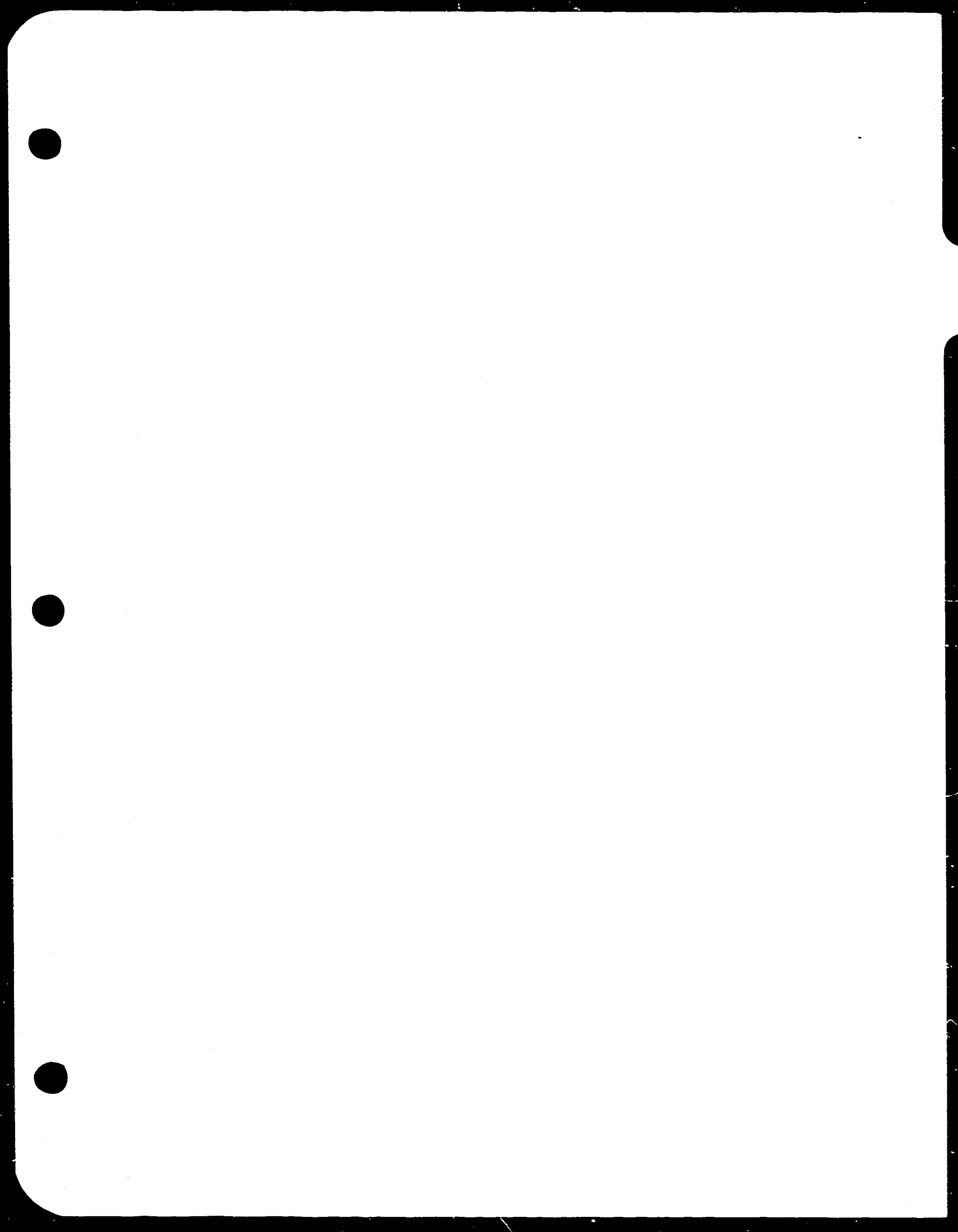
9240' - 9250'

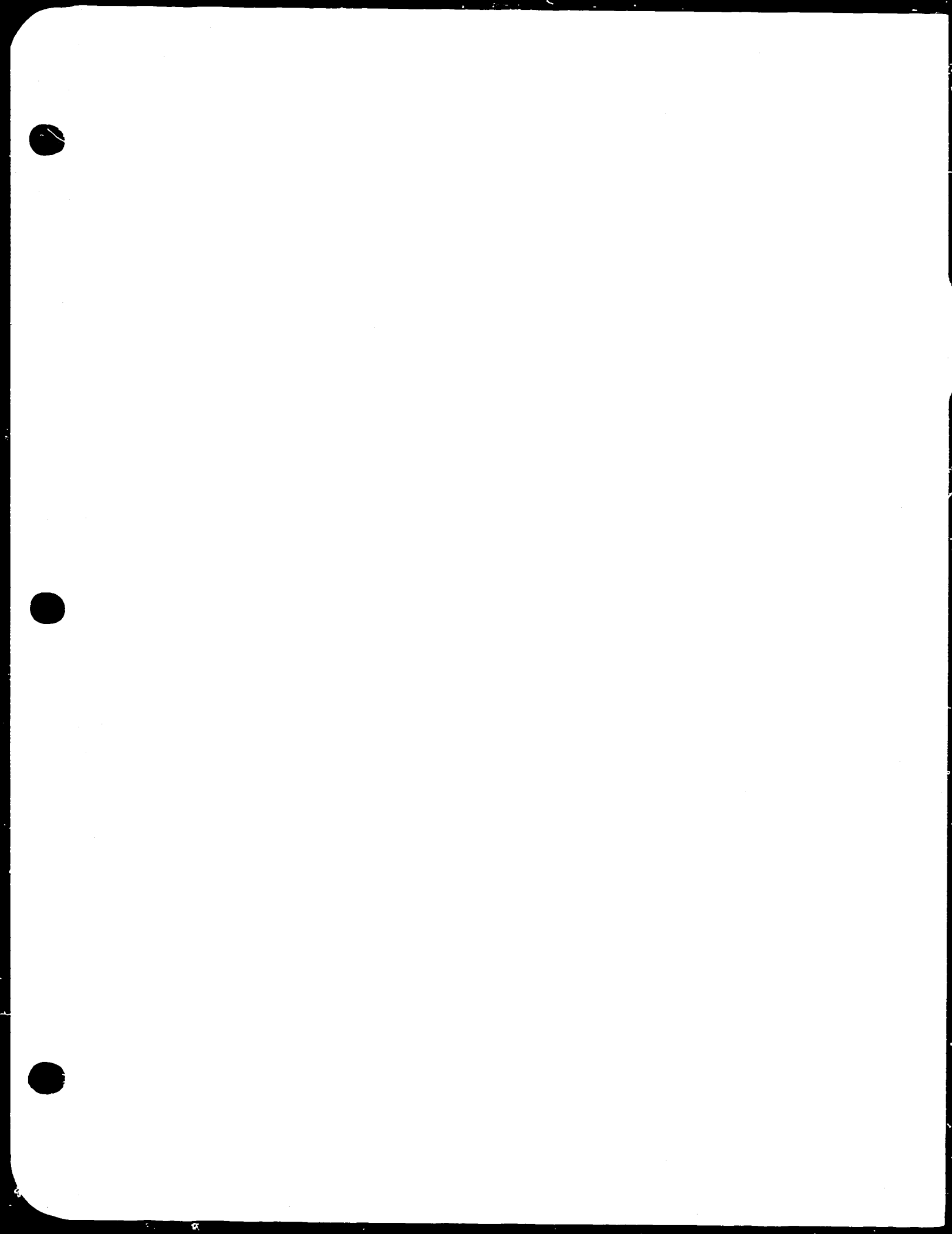
Very poor sample after trip.

9250' - 9270'

Shale (80%), dark grey, micromicaceous, in part silty, a few carbonaceous specks, several chips indurated; silt (20%), grey to dark grey, indurated, a few white specks. A few quartz-filled fractures.

- 9270' - 9280' Shale, dark grey, micromicaceous, with a few chips of shale, brown, carbonaceous, in part silty. A few chips of coal, brecciated or slickensided.
- 9280' - 9290' Shale (50%), dark grey, micromicaceous, in part silty; sandstone (50%), grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sub-lithographic.
- 9290' - 9310' Shale (90%), grey to dark grey, micromicaceous, in part very silty, a few carbonaceous specks; sandstone (10%), as above.
- 9310' - 9320' Shale (60%), as above; sandstone (40%), as above. A few chips of ironstone, brown, sublithographic.
- 9320' - 9340' Shale (90%), as above; sandstone (10%), as above. A few quartz-filled fractures.
- 9340' - 9350' Shale (80%), as above; sandstone (20%), as above. A few chips of ironstone, brown, sublithographic. A few quartz-filled fractures.
- 9350' - 9360' Shale (90%), grey to dark grey, micromicaceous, in part silty, in part slickensided, a few specks of carbonaceous material; sandstone (10%), dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous cement. A few quartz-filled fractures. A few chips of ironstone, brown, sublithographic.
- 9360' - 9370' Shale (75%), as above; sandstone (25%), as above. A few chips of bentonite, light grey, micaceous in part.
- 9370' - 9380' Shale (90%), dark grey, micromicaceous, a few carbonaceous specks, a few chips with dustlike pyrite and minor slickensiding; sandstone (10%), as above.
- 9380' - 9410' Shale (80%), grey to dark grey, micromicaceous, in part silty, in part with carbonaceous specks; sandstone (20%), grey to dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. A few chips of bentonite (sodium type), grey. A few chips of ironstone, brown, sublithographic.
- 9410' - 9420' Very poor sample after trip for bit.
- 9420' - 9475' Shale (85%), grey to dark grey, micromicaceous, a few carbonaceous specks, minor amount of slickensided surfaces; sandstone (15%), as above.
Hole caving - very poor samples.
- 9475' Intermediate 9 5/8" casing point.





UNION AMOCO McPHERSON B-25

SURFACE CASING REPORT

1.	44.00	11.	32.32	21.	41.08	31.	39.38	41.	31.18
2.	31.55	12.	33.02	22.	40.34	32.	36.38	42.	<u>40.39</u>
3.	32.69	13.	32.96	23.	38.41	33.	39.98	1527.74	Total
4.	33.02	14.	32.15	24.	40.93	34.	40.70		
5.	32.18	15.	41.88	25.	40.54	35.	37.50		
6.	30.47	16.	38.45	26.	38.77	36.	33.25		
7.	31.38	17.	41.16	27.	41.03	37.	32.02		
8.	32.86	18.	40.38	28.	39.15	38.	32.76		
9.	32.84	19.	40.76	29.	40.08	39.	31.22		
10.	30.84	20.	40.18	30.	35.14	40.	32.22		

The casing was run in the above order with Joint #1 including a Baker guide shoe and Baker Float collar. A Baker centralizer was run in the centre of Joint #1 and on the collar between Joints 41 and 42. The shoe and collar were thread-locked and the bottom of the first two collars were welded.

The casing consisted of new Mannesman 13 3/8", J-55, 68#, 8 RT, Short T & C, Range 1 and 2 - landed at bottom of reamed hole at 1524' (K.P.).

Ran casing 2:00 a.m. - 6:15 a.m., January 18, 1972

Circulated casing 6:15 a.m. - 8:00 a.m. Pumped 15 bbls. water ahead of cement.

Mixed and displaced 1570 Oilwell cement plus 2% CaCl₂ 8:00 a.m. - 9:30 a.m. with top plug only. After displacing with B.J. Cementers some 50 bbls., the leaking joints in the cementing lines necessitated further displacement with rig pump.

Flug down 9:30 a.m. January 18, 1972. Bumped with 1300 psi. No bleed-back on release of pressure. Top of cement 8 feet below casing bowl flange. Added 8 sacks to fill this space.

Cementer - Ron Wilson (B.J.)
Tong Man - Harry Patterson (Kaine)

Cut off Joint 29.25'

Charlie Schneider

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UNION AMOCO McPHERSON B-25
Intermediate Casing Tally and Report

1.	44.04	31.	45.18	61.	44.33	91.	41.62	121.	34.12
2.	43.86	32.	40.92	62.	35.95	92.	40.52	122.	40.40
3.	43.10	33.	41.40	63.	42.12	93.	41.93	123.	38.94
4.	41.57	34.	37.96	64.	40.76	94.	42.58	124.	40.80
5.	42.75	35.	44.56	65.	40.87	95.	43.28	125.	42.07
6.	42.16	36.	42.93	66.	40.68	96.	40.48	126.	41.90
7.	43.74	37.	34.27	67.	38.95	97.	41.55	127.	42.60
8.	37.56	38.	42.43	68.	44.07	98.	41.10	128.	43.68
9.	37.24	39.	38.74	69.	42.50	99.	42.22	129.	43.32
10.	37.61	40.	40.44	70.	37.06	100.	34.48	130.	40.98
11.	43.28	41.	35.21	71.	42.30	101.	38.82	131.	41.32
12.	40.22	42.	41.40	72.	40.17	102.	41.30	132.	41.82
13.	42.40	43.	43.07	73.	43.20	103.	39.85	133.	40.20
14.	42.86	44.	40.38	74.	40.35	104.	42.91	134.	42.37
15.	40.75	45.	35.95	75.	40.56	105.	43.62	135.	38.20
16.	35.08	46.	42.10	76.	43.35	106.	41.21	136.	39.02
17.	43.57	47.	41.86	77.	36.33	107.	40.83	137.	39.10
18.	34.60	48.	37.39	78.	42.97	108.	42.87	138.	43.20
19.	41.90	49.	42.02	79.	34.63	109.	42.55	139.	42.58
20.	41.85	50.	41.10	80.	43.20	110.	42.97	140.	42.61
21.	42.87	51.	36.89	81.	42.32	111.	40.91	141.	42.30
22.	38.30	52.	40.84	82.	42.61	112.	40.10	142.	40.88
23.	43.61	53.	34.50	83.	43.52	113.	42.02	143.	41.77
24.	39.35	54.	34.42	84.	40.81	114.	41.03	144.	42.83
25.	38.68	55.	38.53	85.	40.20	115.	40.58	145.	42.39
26.	41.37	56.	43.22	86.	40.53	116.	40.15	146.	41.96
27.	40.95	57.	41.32	87.	43.06	117.	41.68	147.	42.54
28.	41.10	58.	43.02	88.	41.55	118.	41.65	148.	38.78
29.	38.90	59.	40.75	89.	41.14	119.	40.72	149.	41.93
30.	39.54	60.	42.96	90.	43.12	120.	43.13	150.	42.10

Intermediate Casing Tally and Report

151.	41.88	165.	34.95	179.	38.66	193.	39.10	207.	40.58	
152.	44.77	166.	41.76	180.	35.22	194.	40.86	208.	39.77	
153.	35.95	167.	34.30	181.	38.50	195.	35.76	209.	41.63	
154.	34.00	168.	38.44	182.	39.42	196.	43.00	210.	42.96	
155.	41.50	169.	43.75	183.	43.30	197.	36.50	211.	39.75	
156.	36.60	170.	36.82	184.	34.03	198.	37.36	212.	43.67	
157.	38.52	171.	43.06	185.	34.78	199.	36.00	213.	38.73	
158.	33.80	172.	39.30	186.	38.34	200.	36.55	214.	35.90	
159.	36.96	173.	34.20	187.	38.40	201.	43.85	215.	38.07	
160.	43.92	174.	37.69	188.	40.46	202.	39.97	216.	38.34	
161.	42.60	175.	36.98	189.	41.80	203.	41.80	217.	38.85	
162.	41.34	176.	38.68	190.	38.50	204.	41.90	218.	39.91	
163.	43.05	177.	36.82	191.	36.08	205.	40.96			
164.	41.10	178.	35.24	192.	35.03	206.	37.30			
								8788.70	Total	

The casing was run in the above order with Joint #1 including the Baker float shoe (1.75') and Baker float collar (1.64'). Joints 1 to 5 (5 joints) of 9 5/8", 47#, S0095, LT & C.

Joints 6 to 55 (50 joints) of 9 5/8", 43.5#, S0095, LT & C

Joints 56 to 110 (55 joints) of 9 5/8", 47#, N-80, LT & C

Joints 111 to 153 (43 joints) of 9 5/8", 43.5#, N-80- LT & C

Joints 154 to 217 (64 joints) of 9 5/8", 40#, N-80, LT & C

Joint 218 (1 joint) of 9 5/8", 47#, N-80, LT & C

The float shoe and collar were thread locked.

Baker centralizers (six in number) were run: the first in the centre of Joint #1, the second at the top of Joint #3, the third at the top of Joint #5, the fourth at the top of Joint #14, the fifth at the top of Joint #22 and the sixth at the top of Joint #30.

Filled casing and broke circulation at top of Joint #10

Filled casing at top of following joints: 25, 37, 55, 73, 88, 97, 110, 124, 139, 153, 168, 183, 195, 213, 218.

Intermediate Casing Tally and Report

Casing was to be run to 9475' but casing would not go beyond four feet in on Joint #219 (8793.73') at 11:15 a.m. April 28, 1972.

Circulated casing 11:15 a.m. to 1:15 p.m. and tried to work casing down without success.

Worked, circulated and pulled Joints #219 and 218 (an original casing tally) and added Joint #236 (on original tally - #218 on above tally)

Circulated casing 3:15 p.m. - 8:30 p.m.

Pumped ahead 50 bbls. diesel fuel, 425 bbls. mud, 35 bbls. of water

Mixed cement 9:22 p.m. - 10:24 p.m., April 28, 1972

Mixed 1200 sacks Oilwell cement plus 0.205% R5

Displaced 10:24 p.m. - 11:10 p.m.

Displaced with rig pump with 652 bbls. mud and top plug only.

Bumped plug with 500 psi, with plug down 11:10 p.m., April 28, 1972

No bleed back - floats held.

Intermediate 9 5/8" casing set at 8788.70 (K.B.)

Cut-off joint 24.05 ft.

Displaced 70 ft. between 13 3/8" and 9 5/8" casings with diesel fuel.

Displaced top 1000 ft. of 9 5/8" casing with diesel fuel after cutting casing, setting slips and heading up B.O.P.'s.



[illegible]

Date	Year	Depth	Wt.	Vls	W.L.	pH	PV	YP	Galg	Solids	Cal	Caustic	Benes	Savdust	Kvichseal	Nicarb	WL 100	Barite	Lube Flo	HMG	Carbonox	Flowline Temp.
Jan. 24	1	2176	9.1	39	8.8	9.0	13	7	1/3	6	2500	50	16									92° F.
	2	2190	9.1	44	9.6	9.5					1300		6									
Jan. 25	3	2235	9.1	45	9.6	12.0				6	3000		12									92° F.
	1	2264	9.1	38	9.6	8.5	14	8	1/4													
Jan. 26	2	2273	8.9	42		8.5																92° F.
	3	2305	9.1	44		9.5	14	11	2/8	5	1000	100	7									
Jan. 27	1	2348	9.1	43	10.0	10.5	14			3	800	50	4									92° F.
	2	2360	8.8	36	10.5	10.5					1500	50	6									
Jan. 28	3	2435	9.0	38	11.0	9.0	11	6	1/3	6	500	50	10									92° F.
	1	2484	9.1	37		10.5					500	50	2									
Jan. 29	2	2502	9.0	60		11.5	13	7	1/4	5	1500	50	6									90° F.
	3	2525	9.1	45	10.0	10.0					500	50	2									
Jan. 30	1	2552	9.1	40		10.5	14	8	2/5	5	800	50	4									90° F.
	2	2588	9.1	45		10.0					1000	50	4									
Jan. 31	3	2643	9.1	43	10.4	10.0	15	14	2/5	6												90° F.
	1	2672	9.1	42		11.0					2000	50	8									
Feb. 1	2	2708	9.2	35	9.5	9.5	12	5	1/4	6	1500	50	6									91° F.
	3	2725	9.2	44	10.5	10.5					1000	50	4									
Feb. 2	1	2736	9.2	47	10.6	10.0	15	14	2/5	6												91° F.
	2	2759	9.2	40		11.0					2000	50	8									
Feb. 3	3	2781	9.1	42		10.0	12	5	1/4	6	1500	50	4									91° F.
	1	2825	9.2	39	12.0	9.0					1000	50	4									
Feb. 4	2	2905	9.2	38		12.0					1800	50	8									91° F.
	3	2928	9.2	45	9.6	9.5	11	8	1/4	6	1000	50	4									
Feb. 5	1	2964	9.2	38		11.0					500	50	4									91° F.
	2	2986	9.2	43		9.5	12	11	2/3	6	1600	50	6									
Feb. 6	3	3010	9.1	44	9.5	9.5	12	11	2/3	6												91° F.
	1	3020	9.2	43	10.4	9.0																
Feb. 7	2	3032	9.1	43		9.5																91° F.
	3	3057	9.2	40		11.5	9	17	1/3	5	500	50	2									
Feb. 8	1	3076	9.1	37	9.2	9.0					1400	100	6									91° F.
	2	3117	9.1	42	9.6	9.0																
Feb. 9	3	3149	9.1	41		11.0	11	10	1/3	5	2100	50	8									91° F.
	1	3194	9.2	38	8.6	9.0																
Feb. 10	2	3240	9.1	42	13.0	9.0					2100	50	8									91° F.
	3	3275	9.1	40		9.5	11	18	2/6	5	2000	50	8									
Feb. 11	1	3314	9.1	45	8.2	9.5	11	18	2/6	5	2000	50	6									91° F.
	2	3327	9.1	39	9.2	9.0					1700	50	6									
Feb. 12	3	3374	9.1	40	9.2	10.5	12	16	1/2	5	2000	50	8									91° F.
	1	3387	9.1	40	8.0	9.0																
Feb. 13	2	3422	9.1	48	8.6	9.0					1900	50	8									91° F.
	3	3436	9.1	47	9.0	10.5	16	15	2/8	5	1500	50	6									
Feb. 14	1	3476	9.1	48	8.6	8.5																91° F.
	2	3514	9.1	49	8.6	9.0					2000	50	8									
Feb. 15	3	3539	9.1	44	8.6	8.5	15	25	3/9	5	2000	50	8									91° F.
	1	3600	9.1	47	8.8	9.5					2000	50	8									
Feb. 16	2	3655	9.1	46	8.4	9.0					1500	50	6									91° F.
	3	3678	9.0	52	8.4	9.5	18	42	5/11	5	2000	100	8									
Feb. 17	1	3736	9.1	63	8.4	8.5																91° F.
	2	3788	9.0	54	8.4	10.5					1500	50	6									
Feb. 18	3	3828	9.1	68	7.8	10.5	16	21	2/6	5	900	4	10									91° F.
	1	3865	9.1	48	8.0	9.5					2500											
Feb. 19	2	3896	9.1	50	8.2	10.0																91° F.
	3	3918	9.1	58	8.2	8.0																

Date	Hour	Depth	Wt.	Via	V.L.	pH	PV	YP	Cells	Solids	Cell	Count	Bones	Sediment	Twist	Alcath	Wt. 100	Barite	Luba Flo	IME	Carbonox	Flowing Temp.
Feb. 11	1	3962	9.1	67	8.0	9.0	24	34	4/7	5	1500	50	6									90° F.
	2	4000	9.1	54	8.4	9.3						50										
Feb. 12	3	4040	9.0	45	8.6	10.0							4					1700				86° F.
	1	4082	9.1	40	10.4	9.0	14	19	2/4	5	900	50	4									
	2	4140	9.1	55	10.0	9.5						50	4					800				86° F.
Feb. 13	3	4181	9.1	51	9.2	10.0							2									
	1	4226	9.1	43	9.8	9.5	14	12	2/4	5	1500	50	6									
	2	4278	9.1	50	9.8	9.8							6					1200				
Feb. 14	3	4293	9.1	52	7.6	10.0	20	47	6/15	6	1500	50	6					1200				87° F.
	1	4370	9.2	65	8.2	9.5							6									
	2	4429	9.1	65	10.0	9.8							8									
Feb. 15	3	4461	9.1	65	9.0	9.3	17	32	5/8	6	2000	50	8					1200				86° F.
	1	4500	9.2	52	8.4	9.5							6									
	2	4545	9.2	54	9.2	9.5							6					1500				84° F.
Feb. 16	3	4585	9.1	53	9.2	9.5	26	25	4/11	6	2000	50	8									
	1	4626	9.1	53	9.4	9.5							16									
	2	4646	9.3	62	7.8	9.5	20	9	3/5	7	4000	50	4									
Feb. 17	3	4727	9.3	50	7.4	10.0							12									
	1	4745	9.3	55	9.4	9.5							8									
	2	4788	9.3	65	9.2	9.5							100									
Feb. 18	3	4804	9.3	60	8.4	9.5	27	24	8/17	7	2200	50	8									94° F.
	1	4838	9.3	62	8.6	9.5							6									
	2	4883	9.4	57	9.4	10.5							4									
Feb. 19	3	4897	9.3	57	8.0	10.5	35	35	8/30	7	1000	50	8									96° F.
	1	4927	9.3	83	8.8	9.5												1200				
	2	4944	9.4	65	9.4	10.0																
Feb. 20	3	4944	9.3	60	8.4	9.5	24	14	3/11	7.8	1200	50	8									90° F.
	1	4982	9.3	60	8.4	9.5							16									
	2	5030	9.2	75	9.6	9.5							100									
Feb. 21	3	5058	9.3	60	9.6	9.3	26	25	4/14	6.5	2600	100	16									92° F.
	1	5108	9.2	52	8.4	9.5							8									
	2	5163	9.0	48	10.6	9.3							28									
Feb. 22	3	5200	9.1	58	9.8	9.5	21	12	2/5	5	5000	100	20									93° F.
	1	5255	9.1	57	9.4	9.5							10									
	2	5295	9.0	62	9.6	9.3							14									
Feb. 23	3	5323	9.0	65	9.4	9.3	25	23	3/12	5	3500	50	8									94° F.
	1	5380	9.0	55	7.4	10.0												1400	1300	120		
	2	5447	9.0	55	9.6	9.5													500			
Feb. 24	3	5471	9.0	50	10.4	9.5	25	21	4/12	6	1500	100	6									94° F.
	1	5542	9.1	55	10.0	10.0							6					1500	400			
Feb. 25	2	5601	9.1	55	9.4	9.5	26	27	8/18	6	3100	100	12									94° F.
	3	5630	9.1	58	9.0	9.0							8									
Feb. 26	3	5703	9.1	65	9.6	10.5	24	20	4/12	6	2000	50	12									92° F.
	1	5744	9.1	55	9.2	9.5												1500	500			
	2	5756	9.1	57	9.2	9.0							30									
Feb. 27	3	5776	9.1	55	9.3	10.7	22	20	3/14	6	3000	100	12									94° F.
	1	5815	9.1	53	9.4	10.0							8									
	2	5861	9.1	54	10.8	9.0							10									
Feb. 28	3	5906	9.1	54	8.4	10.5	22	23	4/20	6	2500	50	8									93° F.
	1	5953	9.1	53	9.6	10.0							14									
	2	5999	9.0	65	9.0	10.5							20									
	3	6038	9.0	55	11.0	10.3							6									
	1	6053	9.0	65	9.8	10.5							100									
	2	6053	9.0	65	9.8	10.5																
	3	6100	8.9	65	9.4	10.0																

Not Recorded

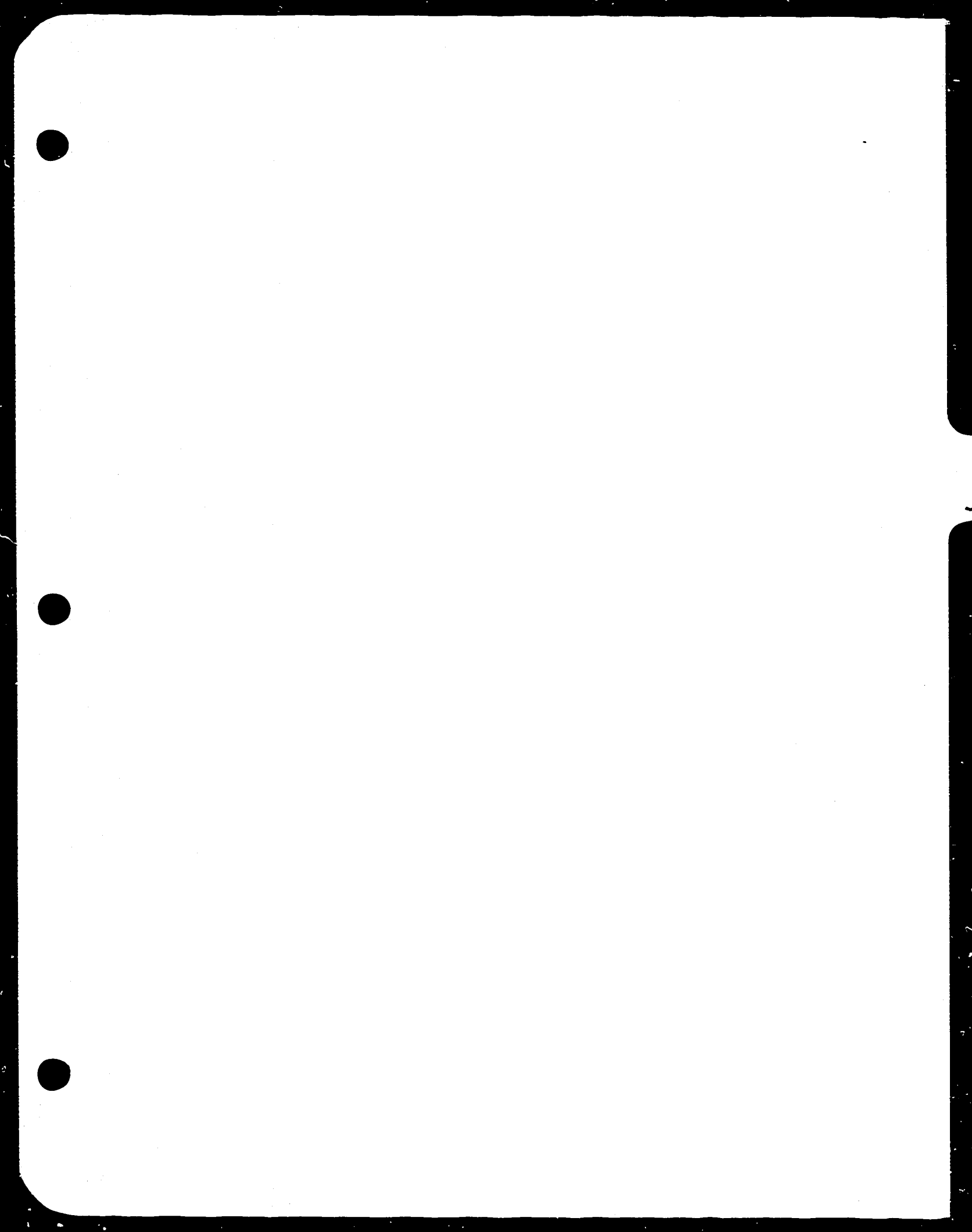
Date	Tour	Depth	Wt.	Vls	W.L.	Lit	PV	YP	Cols	Solids	Col	Crustic	Benex	Sandust	Kvickasol	Bicarb	M. 100	Barite	Lube P/g	IME	Carbonox	Flowline Temp.
Feb. 29	1	6150	9.0	48	8.0	10.0	18	18	3/8	4.5	1500		6									92° F
	2	6202	9.0	55	9.0	9.5					3500	50	24						1500			93° F.
	3	6233	8.9	55	9.2	9.0						50										
March 1	1	6254	9.0	61	8.8	9.3	24	28	5/16	5	1800		8						250		1	94° F.
	2	6295	9.0	59	8.0	9.0					1500	100	6						250		4	
	3	6342	9.0	62	9.5	9.5					1500		6					1500				
March 2	1	6385	9.0	60	9.5	9.0	24	28	4/10	6							100		400		2	93° F.
	2	6400	9.0	61	9.8	9.5					3200	100	12									
	3	6452	9.0	60	10.0	9.5					2300	50	10									
March 3	1	6504	9.0	52	8.0	9.0	23	17	2/4	6	1800		18									
	2	6558	9.1	59	8.1	9.5					2700	100	10									
	3	6602	9.1	62	8.2	9.5	22	20	2/7	6	1800	100	8						800		2	98° F.
March 4	1	6652	9.0	52	8.0	9.5					1800	100	28									
	2	6707	9.0	57	7.6	9.0					1000	100	4									
	3	6757	9.0	65	8.1	9.5	23	18	2/4	6	1000		4					1500				100° F.
March 5	1	6816	9.0	51	8.0	9.5					1000		4									
	2	6861	9.0	55	8.0	9.5						50										
	3	6876	9.0	55	8.0	9.0					1200	50	6						500		3	97° F.
March 6	1	6930	9.1	50	8.0	9.0	22	17	2/4	6	1200	50	6						400		3	
	2	6982	9.1	55	8.2	9.0					2000	50	10									
	3	7040	9.1	58	8.4	9.5					1500	50	8						500		2	98° F.
March 7	1	7100	9.1	57	8.8	9.0	24	19	2/4	6	1800		8									
	2	7162	9.1	50	8.2	9.5					2400	50	10				50					100° F.
	3	7219	9.1	58	8.7	9.5	29	29	3/9	6	3500	50	18				50		750		3	92° F.
March 8	1	7268	9.1	66	8.0	9.0					3000	100	24					1500				
	2	7314	9.1	73	8.8	9.5																
	3	7337	9.1	68	8.8	10.5	29	24	3/5	7	2300		12						400		2	92° F.
March 9	1	7337	9.1	61	8.6	9.0					700	50	4					1500				
	2	7337	9.1	85	8.6	9.0					1600		8						400			
	3	7337	9.2	140	9.2	10.5																
March 10	1	R6180	9.2	140	7.2	8.5	45	55	5/12	7												
		7337																				
	2	R6335	9.2	120	7.6	9.5					100											
March 11		7337																				
	3	R5870	9.2	135	8.4	10.5																
	1	R6666	9.4	108	8.0	9.0	39	37	5/15	8		50										92° F.
March 12	2	R5827	9.4	125	8.4	9.5					2000		10									
		7337																				
	3	R6404	9.5	240	8.4	10.5					3500	50	8									90° F.
March 13	1	R6575	9.4	170	9.0	9.0	43	56	10/24	7												
		7337																				
	2	R6678	9.4	170	7.2	9.0					2400	100	32									
March 14	3	R6834	9.5	155	7.6	10.0					1000	50	10									
		7337																				
	1	R6677	9.6	220	6.4	9.5	59	72	14/32	8	700		10									
March 15	2	R6844	9.6	155	8.4	9.0																
		7337																				
	3	R6899	9.7	180	7.6	9.5					600		4									

[illegible]

Date	Hour	Depth	Wt.	Via	H.L.	pH	PV	YP	Gels	Solids	Gel	Caustic	Remax	Sandust	Kwickseal	Bicarb	Wt. 100	Barite	Lube Flo	WHS	Carbonox	Flowline Temp.
March 29	1	8124	10.7	240	6.1	9.7	70	73	12/28	14	1000	50										112° F.
	2	8154	10.7	224	6.0	10.0						50										113° F.
March 30	3	8177	10.7	205	6.1	9.5						50										113° F.
	1	8177	10.7	240	6.8	9.7	68	74	14/43	16												113° F.
	2	8177																				113° F.
March 31	3	8202	10.7	185	6.0	9.5						50										113° F.
	1	8235	10.6	170	6.4	9.0	58	52	7/50	14	1300	50						2000				113° F.
	2	8260	10.5	160	6.2	9.5						50										113° F.
April 1	3	8274	10.5	165	6.4	9.5						50										113° F.
	1	8279	10.5	190	6.2	9.5	57	49	7/63	14												113° F.
	2	8281	10.5	192	6.2	9.5						100										113° F.
April 2	3	8316	10.4	180	6.8	9.5	52	52	6/45		5000											113° F.
	1	8352	10.4	150	6.4	9.5					2900											113° F.
	2	8371	10.4	133	6.4	9.5					1400											113° F.
April 3	3	8393	10.4	140	6.5	9.5	56	52	8/42		2000											113° F.
	1	8428	10.3	175	6.4	9.5					1000											113° F.
	2	8445	10.3	164	7.2	9.0					2200											113° F.
April 4	3	8461	10.3	220	7.2	9.0						50										113° F.
	1	8495	10.3	175	7.2	9.5	58	47	7/50		1800											113° F.
	2	8522	10.3	156	7.6	9.5					1000											113° F.
April 5	3	8548	10.3	170	7.4	9.5	60	68	8/45													113° F.
	1	8557	10.3	210	7.2	9.5	63	65	12/36	12	3000											113° F.
	2	8593	10.2	175	7.2	9.5					3500											113° F.
April 6	3	8628	10.2	170	7.0	9.5						50										113° F.
	1	8655	10.1	195	6.2	9.5					3200											114° F.
	2	8655	10.1	170	7.2	9.5					500											114° F.
April 7	3	8691	10.1	145	7.0	10.0	61	58	10/35	11	1800											115° F.
	1	8726	10.0	180	6.4	9.0						50										115° F.
	2	8746	10.0	165	6.7	9.5						50										115° F.
April 8	3	8760	10.1	185	6.8	9.5	63	57	8/48	12	2400											116° F.
	1	8795	10.0	190	6.6	9.5					400											116° F.
	2	8824	10.0	180	6.8	9.5						50										121° F.
April 9	3	8835	10.0	170	7.2	10.0	61	52	7/32	12	2400											121° F.
	1	8850	10.0	155	7.0	8.9						50										123° F.
April 10	2	8876	10.0	190	7.2	9.5						50										123° F.
	3	8904	10.0	190	7.2	9.5	48	64	7/37	12												123° F.
April 11	1	8934	10.0	190	6.6	9.5						50										123° F.
	2	8962	10.0	175	6.9	9.5					1200											123° F.
April 12	3	8990	10.0	190	7.2	9.5						50										123° F.
	1	9018	9.9	140	7.1	9.5	53	49	8/28	12	1400											123° F.
	2	9049	9.9	185	7.2	9.5						50										123° F.
April 13	3	9078	9.9	185	7.2	10.0						50										123° F.
	1	9091	Tripping									50										123° F.
	2	9104	9.9	195	7.2	9.5						50										123° F.
April 14	3	9132	10.1	175	7.4	9.5						50										123° F.
	1	9159	10.2	200	7.2	9.5	55	69	5/23	12	400											123° F.
	2	9171	10.1	170	7.6	9.5						50										123° F.
April 15	3	9186	10.0	195	7.6	9.5						50										123° F.
	1	9217	10.1	195	8.0	9.5	51	65	5/28	12	1500											123° F.
	2	9235	10.0	170	7.4	9.5						50										123° F.
	3	9237	10.1	265								50										123° F.
April 16	1	9246	10.1	210	7.2	9.5					1000											123° F.
	2	9246	10.1	260								50										123° F.
	3	9265	10.1	190	7.0	9.5						100										123° F.

No check

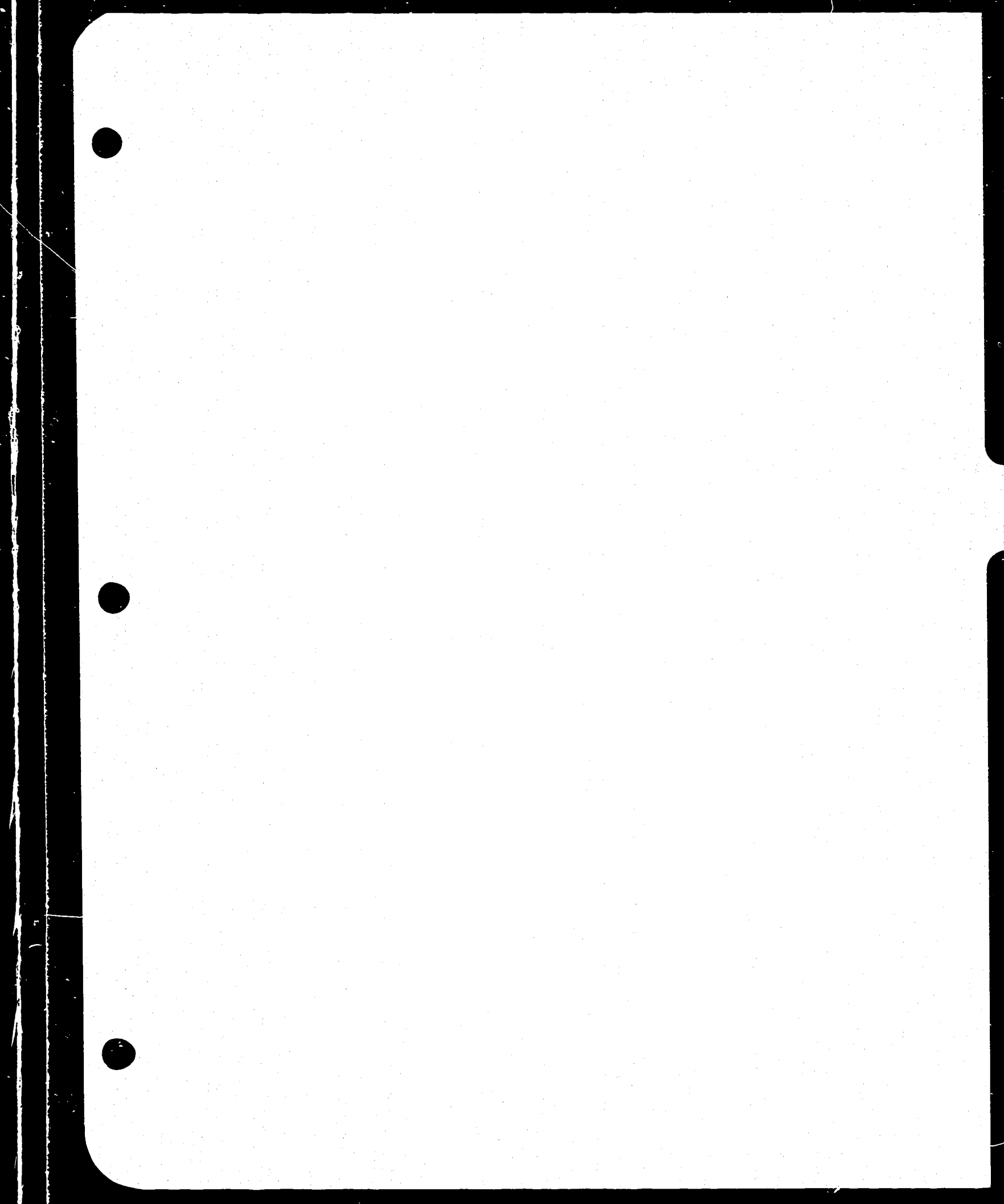
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BIV. SUMMARY

No.	Make	Type	Size	Jets	In	Out	Footage	Hours	Total Hours	Weight	RPM	P.P.	Condition	Serial No.
1A	Western	X3	12 1/4	3 (12)	0	560	560	23 3/4	23 3/4	15-20000	100-160	1400	3-1-1	28046
2A	Security	S33	12 1/4	3 (12)	560	1002	442	30 1/4	54	4-10000	160	1200	3-2-1	280270
3A	Western	X1G	12 1/4	2 (12) 1 (13)	1002	1280	278	24	78	5-10000	160	1400	2-2-1	CH181
4A	Reed	Y13	12 1/4	3 (12)	1280	1530	250	20	98	4-20000	160	1300	2-2-1	876693
1BR	Security	H.O.	12 1/2	3 (16)	0	1100	1100	30 3/4		20000	160	350	4-4-1	
2BR	Security	H.O.	17 1/2	3 (14)	1100	1520	420	28		20000	160	500	6-6-1	
3BR	Security	H.O.	17 1/2	3 (14)	1520	1524	4	3/4		20000	160	550	2-2-1	
1	Smith	DT-J	12 1/4	3 (12)	1520	1734	204	20	118	15-22000	90-110	1200	3-4-1	GS139
2	Security	S44	12 1/4	3 (12)	1520	1734	214	26 1/4	144 1/4	22000	100	1400	8-8-4	300130
3	Security	M4N	12 1/4	2 (12) 1 (13)	1798	1948	91	16 1/2	160 3/4	23000	80	1400	7-2-1	326201
4	Smith	SVH	12 1/4	3 (12)	2039	2039	145	15 1/4	176	23000	80	1500	7-4-1	FW313
5	Reed	PHG	12 1/4	3 (12)	2184	2264	80	16 1/4	192 1/4	20000	50-80	1500	7-6-1	380003
6	Security	S88	12 1/4	3 (12)	2264	2305	41	10 3/4	203	15-30000	35-60	1650	1-1-1	329127
7	Smith	SVH	12 1/4	3 (12)	2305	2354	49	9 1/4	212 1/4	15-20000	50-80	1500	5-2-1	FW918
8	Reed	S44	12 1/4	3 (12)	2354	2484	130	16 1/2	228 3/4	20000	95	1350	8-2-1	193874
9	Security	SDGH	12 1/4	3 (12)	2484	2558	74	16 1/4	245	20000	70-90	1350	6-2-1	308822
10	Smith	SVH	12 1/4	3 (12)	2558	2672	114	16 1/2	261 1/2	20000	70-90	1350	6-2-1	GB148
11	Security	M4	12 1/4	3 (12)	2672	2725	53	15 1/4	269	15-20000	80	1400	6-3-1	GC321
12	Security	SVH	12 1/4	3 (12)	2725	2781	56	13 3/4	284 1/4	30000	80	1500	6-2-1	263174
13	Smith	SVH	12 1/4	3 (12) 1 (13)	2781	2928	57	13	300	30000	80	1450	6-2-1	FW953
14	Smith	SVH	12 1/4	3 (12)	2928	3020	45	13 3/4	313	30-35000	50-80	1650	7-2-0 (1")	FW863
15	Smith	PHG	12 1/4	1 (11) 2 (13)	3020	3060	40	12 1/4	339	40000	60	1450	8-2-1	FW564
16	Reed	X07	12 1/4	1 (11) 2 (13)	3060	3149	89	17 1/2	356 1/2	40000	64	1550	5-1-1	685856
17	Security	S88	12 1/4	11, 12, 13	3149	3240	(91 (132	11 1/2	368	30000	50	1550	2-1-1	VA820
18	Western	XDV	12 1/4	11, 13, 13	3240	3318	78	22 1/2	382 1/2	30-40000	50	1550	6-2-1	329127
19	Western	X44	12 1/4	12, 12, 13	3318	3356	218	14 1/2	422 1/2	20-30000	40-60	1350-1550	1-1-1	38018
20	Western	SVH	12 1/4	3 (12)	3356	3676	140	17 3/4	440 1/2	20-25000	50-60	1550	4-1-1	H2377
21	Smith	SVH	12 1/4	3 (12)	3676	3831	155	21 3/4	462 1/4	20-25000	50-60	1600	5-3-1	38024
22	Reed	SVH	12 1/4	3 (12)	3831	3896	65	11 1/4	473 1/2	20000	55-65	1600	2-1-1	11064
23	Smith	SVH	12 1/4	3 (12)	3896	4045	149	26 1/4	499 3/4	15-20000	55-85	1700-1900	5-3-1	884366
24	Western	XDG	12 1/4	12, 12, 13	4045	4181	136	15 1/4	515	12-15000	95	1650	5-2-1	HH072
25	Western	XDG	12 1/4	12, 12, 13	4181	4293	112	14 1/2	529 1/2	15-18000	96	1650	4-2-1	38030
26	Security	S44	12 1/4	3 (12)	4293	4461	168	18 1/2	548	15-24000	95	1650	4-2-1	38033
27	Smith	SD6H	12 1/4	3 (12)	4461	4585	124	19 3/4	567 3/4	15-18000	95	1650	5-2-1	219244
28	Western	XDG	12 1/4	3 (12)	4585	4727	142	16 1/4	584	15-18000	95	1650	5-2-1	UN846
29	Reed	SS1GJ	12 1/4	14, 14, 11	4727	4804	77	14	608	15000	90	1750	5-1-1	38026
30	Reed	SDGH	12 1/4	3 (12)	4804	4897	93	15	623	20000	85	1700	5-2-1	794400
31	Smith	DTJ	12 1/4	12, 12, 13	4897	4944	47	12	645	18000	80-100	1700	6-4-1	214413
32	Western	X1G	12 1/4	12, 12, 13	4944	5058	114	16 1/4	661 1/4	18000	100	1600	6-5-1	GP056
33	Western	X1G	12 1/4	12, 12, 13	5058	5200	142	18 3/4	680	24000	110	1700	7-2-1	HH119
34	Security	S44	12 1/4	12, 12, 13	5200	5323	123	18 1/2	698 1/2	24000	110	1700	7-2-1	36472
35	Security	S44	12 1/4	12, 12, 13	5323	5471	148	16 1/4	714 3/4	24000	110	1550	6-8-1	375768
36	Security	S44	12 1/4	12, 12, 13	5471	5613	142	15 1/4	730	20-24000	110	1600	6-4-1	375588
37	Security	S44	12 1/4	12, 12, 13	5613	5744	133	15 3/4	745 3/4	24000	110	1600	7-3-1	375670
38	Western	X1G	12 1/4	12, 12, 13	5744	5756	122	2 3/4	768 1/2	23000	60-110	1550	7-3-1	84821
39	Smith	4JS	12 1/4	12, 12, 13	5756	6048	292	51 3/4	800 1/4	30-35000	30-50	1600	2-2-1	60925

No.	Make	Type	Size	Jets	In	Out	Footage	Hours	Total Hours	Weight	RPM	P.P.	Condition	Serial No.
6	Security	S88	12 1/4	12, 12, 13	6048	6233	185	29 1/2	829 3/4	20-35000	48- 64	1600	2-5-1	329127
19	Western	X44	12 1/4	12, 12, 13	6233	6395	162	28 3/4	858 1/2	20-35000	60	1650	2-2-1	H2377
40	Smith	JJS	12 1/4	12, 12, 13	6395	6861	466	67	925 1/2	28-35000	60	1650	1-2-1	GR590
41	Security	S88	12 1/4	12, 12, 13	6861	7337	476	67 1/4	992 3/4	35000	60	1650	5-4-1	344647
42	Security	S88	12 1/4	12, 12, 13	7337	7337	0						1-1-1	330205
43	Smith	SVH	12 1/4	3 (13)	7337	7337	R340	7 1/2		1400		1400	5-6-1	JH783
44	Smith	SVH	12 1/4	3 (14)	7337	7337	R370	11 3/4		1300		1300	2-1-3	H2298
45	Western	X07	12 1/4	3 (14)	7337	7337	R574	10		1350		1350	1-1-2	WMA21
46	Smith	SSLG	12 1/4	3 (14)	7337	7337	R1095	30 1/2		2-30000	60	1300	4-2-1	794394
47	Reed	YHG	12 1/4	3 (14)	7337	7337	R 351	24		2-30000	60	1300	2-3-1	581095
48	Western	X1G	12 1/4	3 (18)	7337	7337	R435	24 3/4		2-30000	60	1300	2-3-1	H2376
49	Security	S44	12 1/4	20, 20, 22	7396	7396	(P208 (D 59	19 1/2	1012 1/4	35000	65	1300	3-3-1	390220
50	Security	M44N	12 1/4	20, 20, 22	7396	7444	48	12	1424 1/4	36-40000	70	1300	2-1-1	341151
51	Security	S44	12 1/4	20, 20, 22	7444	7550	106	24 1/2	1048 3/4	35-40000	90	1250	3-3-1	375834
52	Western	X1G	12 1/4	18, 22, 22	7550	7653	103	22 1/4	1071	35000	80	1650	5-6-1	KH815
53	Western	XDC	12 1/4	18, 18, 22	7653	7747	94	21 3/4	1092 3/4	35000	80	1600	3-4-1	38055
54	Western	XV	12 1/4	18, 18, 22	7747	7838	91	21 3/4	1114 1/2	35000	80	1600	3-4-1	EX879
55	Smith	SSLG	12 1/4	18, 18, 22	7838	7926	88	25	1139 1/2	35000	80	1600	2-2-1	794402
56	Security	S44	12 1/4	3 (22)	7926	8010	84	23	1162 1/2	42000	80- 95	1400-1550	6-3-1	378632
57	Western	XV	12 1/4	3 (22)	8010	8082	72	22 1/4	1184 3/4	35	90	1750	4-2-1	F8016
58	Security	M44N	12 1/4	3 (22)	8082	8177	95	25 1/2	1210 1/4	50000	80	1850	3-3-1	326200
59	Security	M44N	12 1/4	3 (22)	8177	8274	97	24 1/2	1234 3/4	50000	80	1850	3-2-1	389269
60	Smith	K2HJ	12 1/4	20, 20, 24	8274	8281	7	4 1/4	1239 3/4	50000	85	1850	1-1-1	330205
61	Smith	DGLU	12 1/4	3 (22)	8281	8371	90	19 3/4	1276	45000	85	1850	3-5-1	HP732
62	Western	XV	12 1/4	3 (22)	8371	8445	74	17 1/4	1276	45000	85	1850	4-6-1	TE624
63	Western	XV	12 1/4	3 (22)	8445	8548	103	26 1/2	1302 1/2	1500-1850	85	1500-1900	4-2-1	VC782
64	Western	XV	12 1/4	3 (22)	8548	8655	107	23 1/4	1325 3/4	1350-1900	85	1750	3-2-1	FA424
65	Western	ODV	12 1/4	3 (22)	8655	8746	89	20 1/4	1366	35-55000	85	1750	6-2-1	ED638
66	Western	ODV	12 1/4	3 (22)	8746	8835	256	21 1/4	1367 1/4	45-50000	85	1750	6-4-1	HH7042
67	Smith	JJS	12 1/4	3 (22)	8835	9091	80	68 1/4	1435 1/2	50000	55	1750	2-2-1	GH315
68	Western	DS	12 1/4	3 (22)	9091	9171	11	22 1/2	1458	30000	65	1750	2-1-1	HR468
69	Western	ODV	12 1/4	3 (22)	9171	9235	64	18	1476	25000	95	1750	2-1-1	339068
70	Western	ODV	12 1/4	3 (22)	9235	9303	57	18 3/4	1481 1/4	20000	75	1800	1-2-1	375563
71	Security	M44N	12 1/4	3 (22)	9303	9366	43	16 1/4	1516 1/4	25000	85	1750	3-3-1	KE080
72	Western	XDV	12 1/4	3 (22)	9366	9420	74	20	1536 1/4	25000	85	1750	2-2-1	XD894
73	Western	XV	12 1/4	3 (22)	9420	9475	55	15 1/4	1551 1/2	25000	85	1750	7-2-1	JR250
74	Western	S44	12 1/4	3 (22)	9475			32 1/2					1-3-1	
75	Security	M44N	12 1/4	3 (22)				33 3/4					6-2-1	
76	Security	M44N	12 1/4	3 (22)				38					4-4-1	



DEVIATION SUMMARY

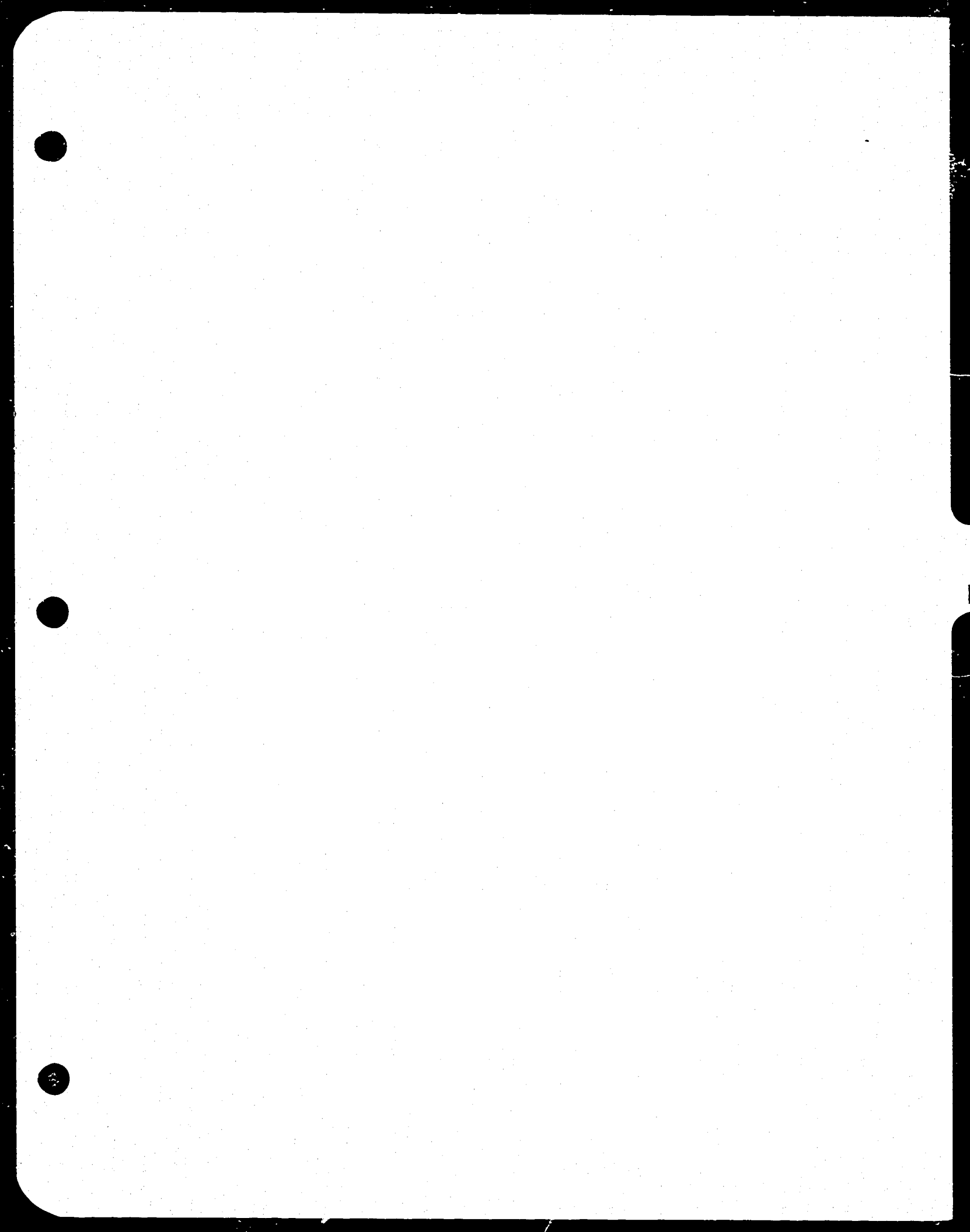
<u>DATE</u>	<u>DEPTH</u>	<u>DEVIATION</u>	<u>DATE</u>	<u>DEPTH</u>	<u>DEVIATION</u>
Jan. 8	107'	1/8°	Jan. 22	1914'	1°
	165'	1/16°		1948'	1°
Jan. 9	221'	1/2°	Jan. 23	1989'	1°
	251'	1/4°		2039'	3/4°
	281'	1/4°		2114'	1 1/4°
	344'	0°	Jan. 24	2176'	1 1/2°
	407'	1/4°	Jan. 25	2238'	2 1/4°
	470'	1/2°		2264'	2 1/4°
	533'	1/2°		2300'	2 3/4°
	625	0°			
Jan. 10	718'	1°	Jan. 26	2332'	2 3/4°
	748'	3/4°		2363'	2 3/4°
	780'	1°		2394'	2°
	811'	1°		2425'	2 1/2°
	843'	1 1/8°	Jan. 27	2456'	2 1/4°
	874'	1°		2487'	3°
	905'	15/16°		2515'	2 1/2°
Jan. 11	937'	1 1/2°	Jan. 28	2577'	3°
	969'	1 1/8°		2609'	3°
	1000'	2°		2640'	3°
	1046'	1 3/4°	Jan. 29	2672'	3°
	1078'	2°		2703'	3 1/2°
Jan. 12	1109'	1 3/4°		2725'	2 7/8°
	1139'	1 3/4°	Jan. 30	2757'	2 7/8°
	1171'	1 1/2°		2781'	2 7/8°
	1203'	1 1/2°	Jan. 31	2820'	2 1/2°
	1235'	1 3/4°		2851'	2 1/4°
	1266'	2 1/8°		2883'	2 1/4°
	1297	1 7/8°		2913'	2 3/4°
Jan. 13	1328'	1 1/8°	Feb. 1	2944'	1 7/8°
	1359'	1 1/2°		2975'	2 1/4°
	1391'	1 1/4°		3007'	1 3/4°
	1421'	1 1/8°	Feb. 2	3044'	1 7/8°
	1452'	1/2°	Feb. 3	3076'	2°
	1483'	1°		3107'	2 1/8°
	1530'	1/2°		3138'	2 1/4°
Jan. 20	1602'	1/2°			
	1665	1°			
Jan. 21	1696'	3/4°			
	1734'	1/2°			
	1790'	1/2°			
	1852'	3/4°			

DEVIATION SUMMARY

<u>Date</u>	<u>Depth</u>	<u>Deviation</u>	<u>Date</u>	<u>Depth</u>	<u>Deviation</u>
Feb. 4	3170'	2 1/4°	Feb. 13	4251'	5°
	3202'	2 1/8°		4272'	5 3/4°
	3233'	2 7/8°			
	3263'	2 1/2°	Feb. 14	4335'	6°
Feb. 5	3294'	1 3/4°		4398'	4 1/2°
	3318'	3° Misrun		4461'	6 3/4°
	3325'	2 1/8°	Feb. 15	4523'	6°
	3356'	2 3/4°		4555'	3 1/2°
				4585'	6°
Feb. 6	3387'	2 1/2°			
	3419'	2 1/4°	Feb. 16	4617'	6°
				4648'	5°
Feb. 7	3449'	2 1/2°		4678'	5 1/2°
	3481'	2 3/4°		4710'	6 1/4°
	3512'	2 1/2°			
			Feb. 17	4742'	6°
Feb. 8	3543'	3°		4773'	6°
	3573'	2 7/8°			
	3605'	3 1/8°	Feb. 18	4866'	5°
	3637'	3°		4897'	5°
	3668'	2 7/8°			
			Feb. 19	4930'	Misrun
Feb. 9	3700'	3°			
	3722'	Misrun (5°)	Feb. 20	4977'	3 1/2°
	3763'	2 3/4°			
	3795'	3°	Feb. 21	5058'	3°
	3826'	3 1/2°		5135'	3°
				5200'	3 1/2°
Feb. 10	3889'	3 1/2°			
	3914'	4°	Feb. 22	5260'	3 3/4°
Feb. 11	3971'	5 3/4°	Feb. 23	5323'	4°
	394 RR	5 1/2°		5386'	4°
	3977'	4°		5447'	4°
	4007'	5 3/4°		5471'	4°
	4039'	5 1/2°			
			Feb. 24	5539'	4°
Feb. 12	4045'	6 1/4°		5601'	4 1/4°
	4078'	5 3/4°			
	4109'	5°			
	4140'	6 1/4°			
	4170'	6°			

DEVIATION SUMMARY

<u>Date</u>	<u>Depth</u>	<u>Deviation</u>	<u>Date</u>	<u>Depth</u>	<u>Deviation</u>
Feb. 25	5665'	4°	March 19	7550'	5°
	5726'	4°			
Feb. 26	5811'	3 1/2°	March 22	7747'	4 1/2°
Feb. 27	5877'	4 1/4°	March 26	7926'	3 1/4°
	5936'	4°	March 27	8010'	2 3/4°
	5999'	5 1/2°			
Feb. 28	6048'	2°	March 28	8082'	2 1/2°
Feb. 29	6123'	4°	March 31	8274'	4°
	6186'	6°	April 2	8370'	3 1/4°
	6233'	5°			
March 1	6279'	5 1/2°	April 6	8656'	2 1/2°
	6342'	4 1/4°	April 7	8746'	2°
March 2	6395'	5°	April 8	8835'	3°
March 3	6456'	4 1/4°	April 12	9091'	7 1/2°
	6527'	4°			
	6589'	4°	April 13	9171'	9°
March 4	6632'	4°	April 14	9225'	9 1/2°
	6746'	3 1/2°			
March 5	6861'	3 1/2°	April 15	9246'	9°
March 7	7058'	4°	April 16	9303'	9°
March 8	7276'	3 1/2°	April 17	9346'	8 1/4°
	7337'	4°	April 18	9393'	7 1/2°
March 17	7444'	4°			



UNION AMOCO McPHERSON B-25

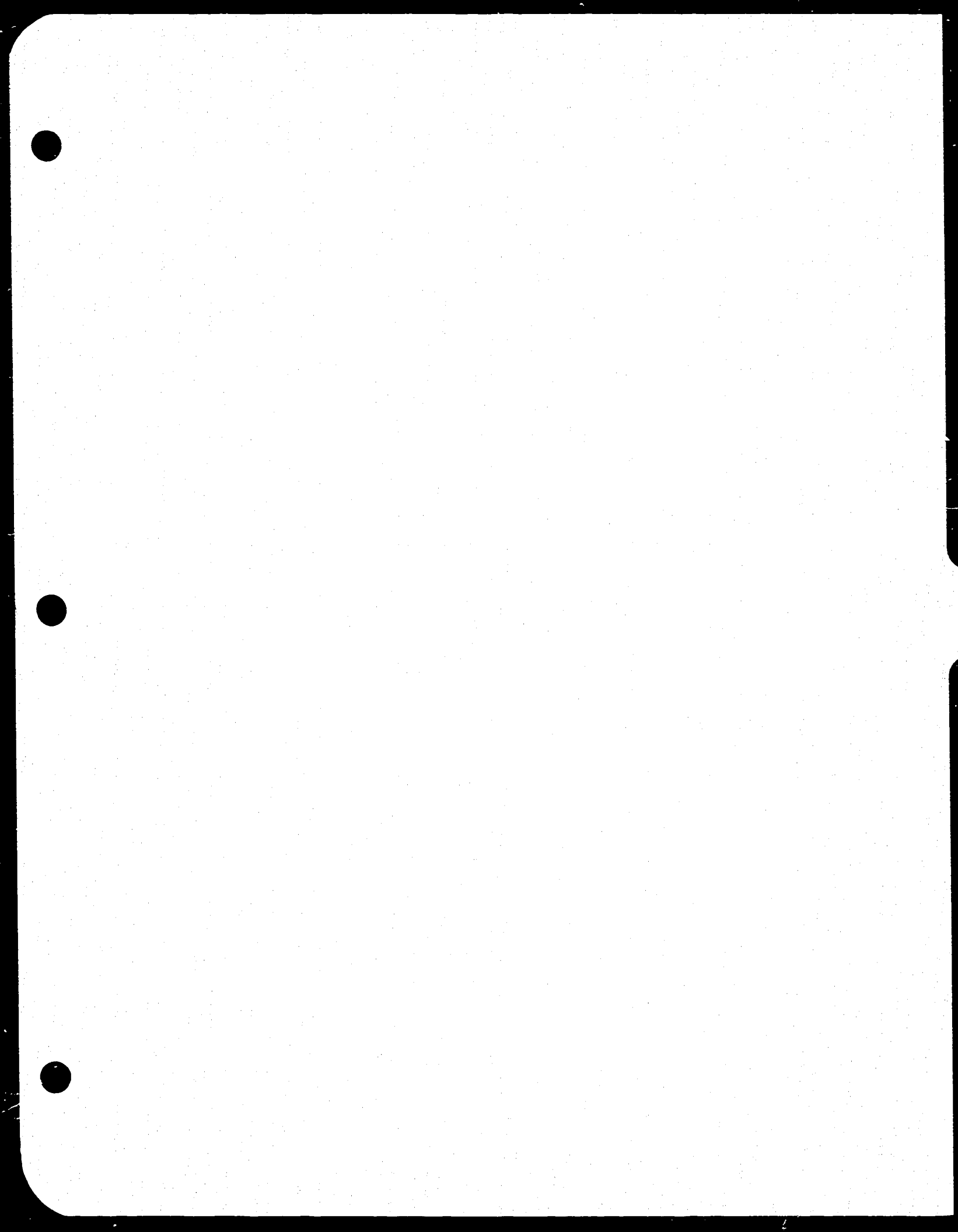
TRUE VERTICAL DEPTH

<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>	<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>	<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>
107	1/8	107	1696	3/4	1695.67	3007	1 3/4	3005.69
165	1/16	165	1734	1/2	1733.67	3044	2	3042.67
221	1/2	221	1770	1/2	1769.67	3076	2	3074.65
281	1/4	281	1852	3/4	1851.66	3107	2 1/4	3105.63
334	0	334	1914	1	1913.65	3128	2 1/4	3126.61
407	1/2	407	1948	1	1947.64	3170	2 1/4	3168.58
533	1/2	533	1989	1	1988.63	3202	2 1/8	3200.55
625	0	625	2039	3/4	2038.63	3233	3	3231.51
718	1	717.98	2114	1 1/4	2113.62	3263	2 1/2	3261.48
780	1	779.97	2176	1 1/2	2175.60	3294	1 3/4	3292.46
811	1	810.96	2238	2 1/4	2237.55	3325	2 1/4	3323.44
843	1 1/4	842.95	2300	2 3/4	2299.48	3356	2 3/4	3354.40
874	1	873.94	2332	2 3/4	2331.44	3387	2 1/2	3385.37
1000	2	999.86	2363	2 3/4	2362.40	3422	2 1/4	3420.34
1046	1 3/4	1045.84	2394	2	2393.38	3449	2 1/2	3447.31
1078	2	1077.82	2425	2 1/2	2424.35	3481	2 3/4	3479.27
1091	1 3/4	1090.81	2456	2 1/4	2455.33	3512	2 1/2	3510.24
1171	1 1/4	1170.79	2487	3	2486.29	3543	3	3541.20
1203	1 1/4	1202.78	2515	2 1/2	2514.26	3573	3	3571.16
1225	1 3/4	1224.77	2546	3	2545.22	3603	3 1/4	3601.11
1266	2 1/4	1265.74	2577	3	2576.18	3637	3	3635.06
1297	2	1296.72	2672	3	2671.05	3669	3	3667.02
1328	1 1/2	1327.71	2703	3 1/2	2701.99	3700	3	3697.98
1391	1 1/4	1390.70	2755	3	2753.92	3763	2 3/4	3760.90
1421	1 1/4	1420.69	2781	2 7/8	2779.88	3795	3	3792.86
1452	1/2	1451.69	2820	2 1/2	2818.84	3826	3 1/2	3823.80
1483	1	1482.68	2883	2 1/4	2881.79	3889	3 1/2	3886.68
1530	1/2	1529.68	2913	2 3/4	2911.75	3914	4	3911.62
1602	1/2	1601.68	2944	2	2942.73	3946	5 3/4	3943.46
1665	1	1664.67	2975	2 1/4	2973.71	3977	4	3974.39

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UNION AMOCO McPHERSON B-25TRUE VERTICAL DEPTH

<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>	<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>	<u>Depth</u>	<u>Deviation</u>	<u>T.V.D.</u>
4007	5 3/4	4004.24	5736	4	5727.15	8746	2	8729.99
4039	5 1/2	4036.09	5811	3 1/2	5802.01	8835	3	8818.87
4078	5 3/4	4074.90	5844	4 1/4	5884.79	9091	7 1/2	9072.67
4109	5	4105.78	5999	4	5989.54	9171	9	9151.69
4140	6 1/4	4136.60	6048	2	6038.51	9235	9 1/2	9214.81
4170	6	4166.44	6123	4	6113.33	9303	9	9281.97
4251	5	4247.13	6186	6	6175.98	9346	8 1/4	9324.53
4272	5 3/4	4268.03	6233	5 1/2	6222.76	9393	7 1/2	9371.13
4335	6	4330.68	6279	5 1/2	6268.52	9475	7	9452.52
4398	4 1/2	4393.48	6342	4 1/4	6331.35			
4461	6 3/4	4456.05	6395	5	6384.15			
4526	6	4520.69	6456	4 1/4	6444.63			
4585	6	4579.37	6527	4 1/4	6515.44			
4617	6	4611.19	6589	4	6577.29			
4628	5	4622.15	6652	4	6640.14			
4678	5 1/2	4671.92	6746	3 1/2	6733.96			
4710	6 1/4	4703.73	6861	3 1/2	6848.74			
4742	6	4735.55	7058	4	7045.27			
4773	6	4766.38	7276	3 1/2	7262.86			
4866	5	4859.03	7337	4	7323.71			
4898	5	4890.91	7444	4	7430.45			
4977	3 1/2	4969.76	7550	5	7536.05			
5058	3	5050.63	7747	4 1/2	7732.44			
5135	3	5127.52	7926	3 1/4	7911.15			
5200	3	5192.43	8010	2 3/4	7995.05			
5295	3 3/4	5287.23	8082	2 1/2	8066.98			
5323	4	5315.16	8242	4	8226.60			
5539	4	5530.64	8370	3 3/4	8354.33			
5601	4 1/4	5592.47	8656	2 1/2	8640.04			



UNION AMOCO McPHERSON B-25

LOST CIRCULATION ZONES

The base of the Lower Cretaceous at 620 ft. rests on the top of the Upper Devonian Imperial formation. As the mud at this point had only a weight of 8.7 lb/gal and a viscosity of 35 seconds, it did not have sufficient lifting power with the 90 ft. per minute annular velocity to lift anything but the small cuttings. The small cuttings did not give the true picture of the lithology of the Lower Cretaceous-Upper Devonian contact.

When the drill was at 640 ft., a partial loss of mud circulation was noted and sawdust was added to the mud to seal off the lost circulation zone. A continual seepage of mud, from January 10 to January 13 when surface casing point was reached necessitated small daily additions of sawdust. As stated before, the samples of the contact did not disclose whether circulation was being lost in fractures or detrital gravels. The partial loss of circulation would strongly suggest however, that the top of the Imperial formation is an erosional unconformity.

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File 933-2189 Page 1 of 1

Company Union Oil Company of Canada Ltd.

Union Amoco McPherson B-25

Weil _____ K.B. _____ Grd. 1560

Location 135 34' 22.37 W.L. Field Fort McPherson Province N.W.T.

Formation Water from Lake Interval

Sampled from used at camp for mud make-up by _____

Date sampled _____ Date analysed Feb. 11/72 Analyst LK

Recovery

Mud type _____ Water cushion _____

Resistivity	<u>14.5</u>	Ohm-meters @	<u>73</u>	°F	Total Solids:		
Specific gravity	<u>1.0001</u>			@ 60°F	Calculated	<u>29</u>	mg/liter
pH	<u>6.7</u>	H ₂ S	<u>Absent</u>		By evaporation @ 110°C	<u>-</u>	mg/liter
Refractive Index	<u>1.3324</u>		@ 72°F		By evaporation @ 180°C	<u>-</u>	mg/liter
					At ignition	<u>-</u>	mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
0	6	1	Trace	-	-	-	2	20	0	Nil	Nil

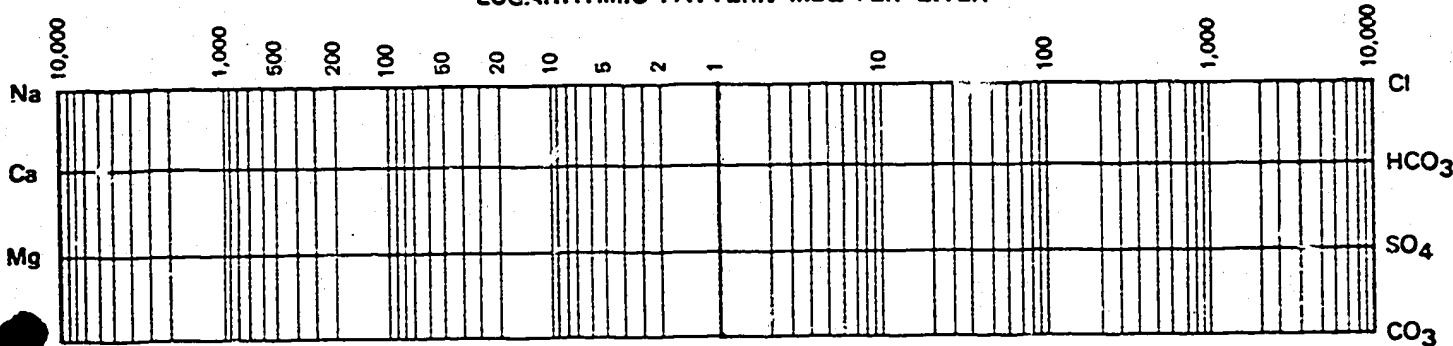
PER CENT CALCULATED SOLIDS

0	20.7	3.4	Trace	-	-	-	6.9	69.0	0	0	0
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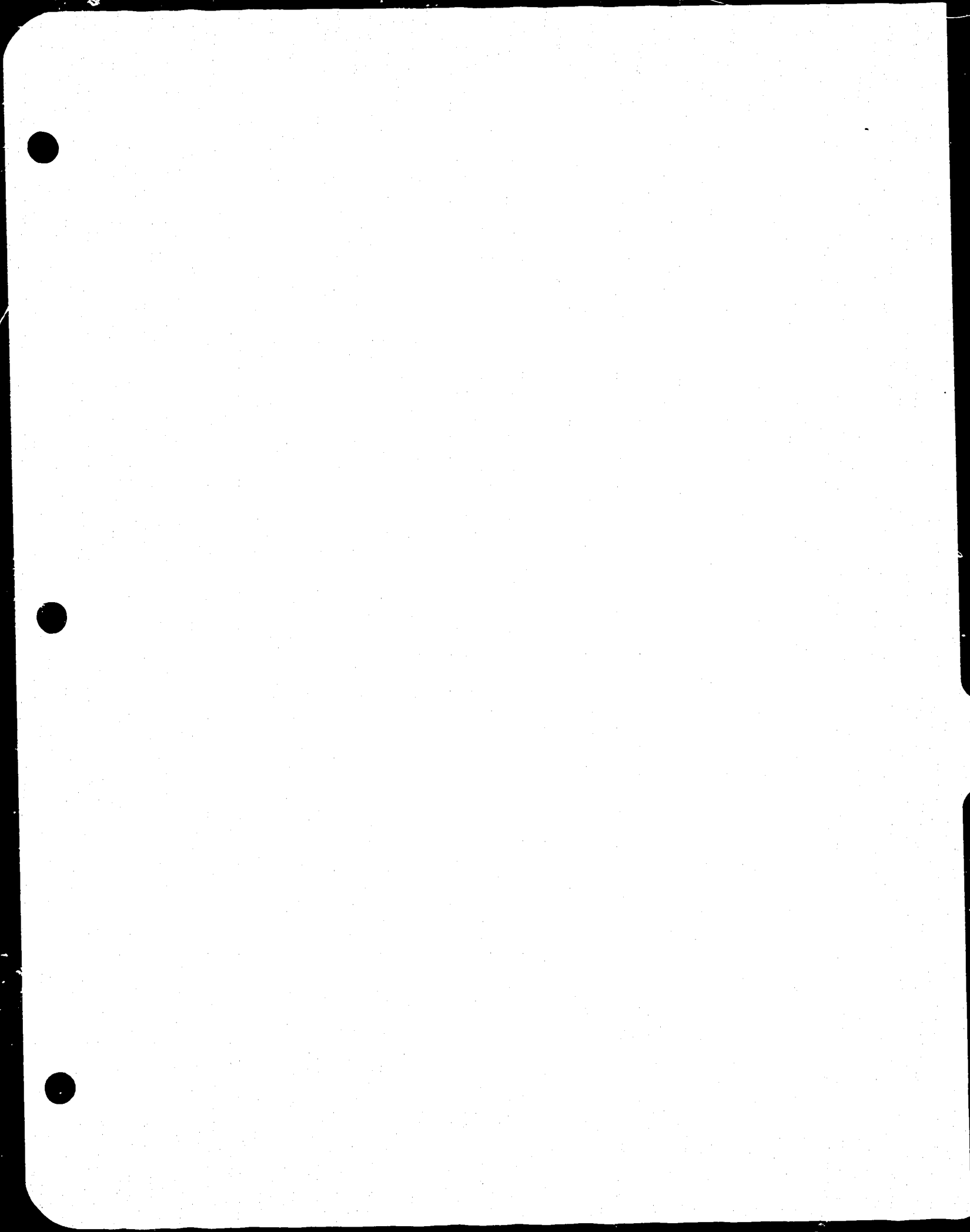
MEQ PER LITER

0	3	1	Trace	-	-	-	1	3	0	0	0
---	---	---	-------	---	---	---	---	---	---	---	---

LOGARITHMIC PATTERN MEQ PER LITER



15. .0



Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1594' (Est.), K.B. 1617' (Est.)

WEEKLY REPORT NO. 1 FOR WEEK ENDING MIDNIGHT DECEMBER 5, 1971

November 30 Crew travelled from Edmonton to Fort McPherson to Bawden Drilling Rig #2 and checked equipment.

December 1 Load out trucks with prefabs, rack for camp, light plant with 343 cat motor, camp matting, propane tank, planks, one camp building storage box with equipment in it.
Unload trucks at new lease, some 30 miles distance.

December 2 Snow and wind.
Load out trucks with 10P130 pump, two bunk houses, diner.
Help to haul water for camp.
Unload trucks at new lease.

December 3 Fair weather.
Pile prefabs in racks.
Work on pick-up truck.
Take down radio antenna.
Pick up planks around camp. Put some equipment in building.

December 4 Weather: -18 below
Fuel up camp. Help water truck.
Pick up equipment out of snow.
Prepare rig to move.

December 5 Weather- fair.
Help to work on Kaps' trucks.
Pick up equipment around rig and camp.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
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Elevations: Ground 1594' (Est.), K.B. 1617' (Est.)

WEEKLY REPORT NO. 2 FOR WEEK ENDING MIDNIGHT DECEMBER 12, 1971

December 6 Weather - cool.
Load out camp.
Start up light plant at new lease.
Rig up camp. Unload trucks.
Spot 2 shacks and kitchen, and start up camp.

December 7 Weather - fair.
Rigging up camp. Spot wash house, supply shack and engineers shack.
Put in walkway and start on roof.
Unload trucks.
Five men arrived from Edmonton.

December 8 Weather - windy.
Rig up and fuel up camp.
Help unload trucks. Repairing heaters and light cords.
Started using camp December 8, 1971.

December 9 Finish rigging up camp. Weather - fair.
Spot two bunk houses.
Spot fuel tank for storage.
Fuel up camp.
Loading out at back site.

December 10 Weather - fair.
Put plywood around base of camp.
Rigging up two more bunk houses.
Unload trucks. Clean up around camp.
Load out trucks at back site.

December 11 Weather - 22 below.
Finish rigging up around camp.
Measure up lease for piling.
Unload trucks.
Loading out at back site.

December 12 Weather - 24 below.
Fuel up camp.
Put up Atco building, after clearing site.
Unload trucks.
Load out at back site sub base, 2 motors, catworks,
2 loads fuel and one walkway.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 500B256720135300
Elevations: Ground 1594' (Est.), K.B. 1617' (Est.)

WEEKLY REPORT NO. 3 FOR WEEK ENDING MIDNIGHT DECEMBER 19, 1971

December 13

Weather - 40 below.
Fuel up camp and equipment.
Help surveyors for shot holes.
Put up camp fuel tank. Put up gas tank stand.
Working on garage Atco building.
Unload trucks.
Load out at back site two joints 20" casing and piling,
Nodwell rig for shot holes, walkway.
Move bunkhouse to airstrip and rig up same.

December 14

Weather - 55 below.
Fuel up camp and equipment.
Spot Kaps' tool house, and put up doors on Atco building.
Start to put up Kaps' building.
Help rat hole driller.
Load out at backsite sub-base, drawworks, motor and fuel
Meet plane and unload supplies for camp and rig.
Start rigging up beacon.
Work on Atco building and install heater.

December 15

Weather - cold and windy.
Finish putting up Kaps' garage.
Fuel up equipment, change oil and fitters in 343 light
plant.
Measure up for piling holes.
Put up fuel tank for shop.
Load out at backsite one load fuel, junk rack, electrical
panel building.
Cement conductor pipe at 40 ft. below surface with
136 sacks cement.

December 16

Weather - snow.
Work with rat hole drillers digging piling holes and
staking out same.
Fuel up equipment and camp.
Rig up shop heater and swamping on Kaps' equipment.
Unload subs with crane.

December 17

Weather - fair.
Work with rat hole drillers digging piling holes and
staking out same.
Put derrick together.

December 18

Weather - wind to 80 mph.
No outside work because of wind chill. Wind took
roof off garage.
General work inside camp.

December 19

Weather - 20 below.

Help rat hole drillers with piling holes, and water in piling.

Finish staking out piling holes.

Prefab around camp.

Finish putting derrick together.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1594' (Est.), K.E. 1617' (Est.)

WEEKLY REPORT NO. 4 FOR WEEK ENDING MIDNIGHT DECEMBER 26, 1971

December 20 Weather - 25 below.
Help rat hole diggers with piling holes, and water in piles.
String lines in derrick and install cages.

December 21 Weather - cold.
Help rat hole diggers with piling holes.
Clean up around shop.
String overhead power to camp.
Freeze in piling. Mark and cut top of piling.

December 22 Weather - 20 below and windy.
Mark and cut top of piling.
Plank top of piling.

December 23 Weather - Zero.
Plank piling and lay matting.

December 24 Weather - Zero, mild.
Put sub-base on matting and install spreaders.

December 25 Weather - 30 above, windy.
Finish installing spreaders.
Put up drawworks and two motors.

December 26 Weather - 18 above.
Hook up floor motors and bolt together.
Put up pump houses and No. 2 pump.
Hook up chains in compounds and drawworks.
Install guards on No. 1 pump.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1594' (Est.), K.B. 1617' (Est.)

WEEKLY REPORT NO. 5 FOR WEEK ENDING MIDNIGHT JANUARY 2, 1972

December 27 Weather - Zero.
Spot No. 1 pump. Hook up both pumps.
Spot all mud tanks.

December 28 Weather - Zero.
Meet and unload plane.
Rigging up pumps and water tank. Rigging up mud tanks.
Put in floor plates around drawworks.
Spot water and fuel tanks.
Rig lighting plant, accumulator building, and one boiler house.
Put up dog house stand.

December 29 Weather - mild.
Spot boiler house, tool house and supply building.
Spot hallways and bolt same.
Put up dog house.
Install prefabs around drawworks.
Hook up fuel lines.
Spot shaker tank. Install lights in derrick.

December 30 Weather - mild and snowing.
Put up catworks on rig floor.
Pin derrick and pick up A legs.
Put up roof over drawworks and prefab around motors.
String power cords to and from generators.
General rigging up.

December 31 Weather - mild.
Finish prefabs on mud tanks.
Put up dog house stairs.
Rig up steam, air and water lines.
Start up No. 1 boiler at 5:00 P.M. December 31.
String blocks to 10 lines.
Hook up monkey board.
Help welders on air ducks and string power cords.

January 1 Weather - mild and windy.
Work on air lines to drawworks, and compounds.
Start up No. 1 motor.
Rig up mud manifold.
Pick up derrick.
General rigging up.

January 2

Weather - cooler.

Tie back braddie line in derrick.

Put catworks in place.

Rig up all floor plates on rig floor.

Install rotary table.

Work on mud manifold and mud tanks.

General rigging up.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1594' (Est.), K. B. 1617 (Est.)

WEEKLY REPORT NO. 6 FOR WEEK ENDING MIDNIGHT JANUARY 9, 1972

January 3 Weather - 8 below.
Put B.O.P.'s in sub. Installed flowline and flow nipple plus all valves and drilling equipment in subs. Put up sub prefabs. Rig up hydril lines under walkway. Rig up water and steam lines. Start putting up floor prefabs.

January 4 Weather - 30 below.
Installing rig floor prefabs. Put rotary sprocket on table. Work on steam heaters. Rig up and start Tioga (air heater). Met and unloaded plane. Geologist and two Bariod crew arrived from Edmonton.

January 5 Weather - 30 below and windy.
Changed heads and liners in pump. Finished installing floor prefabs. Hook up all air lines to catworks and drawworks. Hook up line spooler. Hook up heater to walkways. Hook up water to gyro. General rigging up. Hook up power to Baroid unit.

January 6 Weather - 40 below.
Rig up rotary chain and guard. Rig up water lines and circulate same. Put hand hole in No. 2 boiler and start up same. Work on mud pumps. Weld on casing bowl to conductor pipe. String main power cords to floor and control panel. Hook up accumulator lines. General rigging up. Rig up Baroid unit and mark sample bags.

January 7 Weather - 45 below.
Work on boiler. Pick up swivel, kelly spinner, kelly bushings. Pick up drilling spool and hydril. Hook up sample boy. Gel up mud tank gates. Mix mud prior to spud. Gel 2500 lb., caustic 100 lbs. Rigging up Baroid unit and marking sample bags.

January 8

Weather - 48 below.

Nipple up hydril.

Spudded 2:00 P.M., January 8, 1972. Base of drift

6 ft. Well starts in Cretaceous.

Drilled 0' - 193' = 193' with bit #1A, with 5 only 9" collars.

Bit 1A (X3), 12½", 193 ft., 8 ¾ hr. #EH846

Mud: Wt. 8.6#, Vis. 34, W.L. 17.6cc, pH 11.0, PV 4,
YP 2, Solids 3%

Additives: Gel 2000, Caustic 50

Surveys:

107' - 1/8°

165' - 1/16°

Base of Oxidized Zone 150 ft.

January 9

Weather - 48 below.

Top of Imperial - 620'

Drilled 193' - 640' = 447 ft. with bits #1A and 2A
with 6 (9"), 2 (8"), 1 (6 ¾") collars.

Bit #1A (X3), 12½", 560 ft. 23 ¾ hr., #EH 846 with 3 only
No. 12 jets.

Bit #2A (S 33), 12½", 80 ft., 1½ hr., #280270 with 3 only
No. 12 jets.

Mud: Wt. 8.7#, Vis. 35°, W.L. 17.0 cc, pH 12.5, PV 8,
YP 7, Solids 3%

Additives: Gel 2700, Caustic 200

Surveys:

221' - 1/2°

251' - 1/4°

281' - 1/4°

344' - 0°

407' - 1/4°

470' - 1/2°

533' - 1/2°

625' - 0°

The lithology below 150 ft. consists of interbedded
shale, grey, micaceous; silt, grey, micaceous, in part
with carbonaceous specks; sandstone, grey, fine to
medium grained, quartz with minor light colored chert,
angular, well to medium sorted, with argillaceous cement
with trace of oil staining from 520' - 600'.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1590', K.B. 1615' CBF 1612'

WEEKLY REPORT NO. 7 FOR WEEK ENDING MIDNIGHT JANUARY 16, 1972

January 10

Weather - 38 below and very windy.
Drilled 640' - 937' = 297 ft. with bit #2A, 6 (9"), 2 (8"), 1 (6 3/4") collars.
Bit #2A (S33), 12½", 359 ft., 20 hr., #280,270 with 3 only #12 jets.
Mud: Wt. 9.1#, Vis. 49, W.L. 17.3cc, pH 9.0, PV 20, YP 15, Solids 5%, Gels 2/14
Additives: Gel 11,300, Caustic 100, Sawdust 45
Surveys:
718' - 1°
748' - 3/4°
780' - 1°
811' - 1°
843' - 1 1/8°
874' - 1°
905' - 15/16°
Lost circulation at 640', approximately 150 bbl. in the contact with the Imperial formation at 620' or in the top of same.
Based classification of Imperial on shale and sandstone becoming dark grey, micaceous and indurated and absence of glauconite. Further corroboration of lost circulation at contact and abrupt increase in deviation.
Geolographs in rig and Baroid unit not operating.

January 11

Weather - 25 below and high winds.
Drilled 937' - 1109' = 172 ft. with bits #2A, #3A with 6 (9"), 2 (8"), 1 (6 3/4") collars and stabilizers at 60 ft. and 90 ft. on bit #3A.
Bit #2A (S33), 12½", 442 ft., 30½ hr. #280270 with 3 only #12 jets.
Bit #3A (XIG), 12½", 107 ft., 9½ hr. #CH181 with 2 (#12) and 1 (#13) jets.
Mud: Wt. 9.0#, Vis. 47, W.L. 17.4cc, pH 8.5, PV 15
YP 25, Solids 5%, Gels 2/9
Additives: Gel 7500, Sawdust 13
Surveys:
937' - 1½°
969' - 1 1/8°
1000' - 2°
1046' - 1 3/4°
1078' - 2°
Drilling with 160 rpm and 2 to 5000 lb. weight in order to keep the deviation as low as possible.
Lithology - predominantly shale, grey - dark grey- black, micromicaceous, with thin interbeds of silt, dark grey micaceous, indurated, in part carbonaceous and sandstone

January 11
(Cont'd)

grey, fine grained, quartz in part carbonaceous, angular, well sorted, argillaceous and silica cement. A few chips locally of ironstone, buff, lithographic.

January 12

Weather - 30 below with strong breeze.

Drilled 1109' - 1310' = 201 ft. with bits 3A, 4A with 6 (9"), 2 (8"), 1 (6 3/4") collars and stabilizers at 60 ft. and 90 ft.

Bit #3A (XIG), 12 1/2", 278 ft., 24 hr. #CH181 with 2 (#12) and 1 (#13) jets.

Bit #4A (YT3), 12 1/2", 30 ft., 3 hr. #876693 with 3 (#12) jets

Mud: Wt. 9.0#, Vis. 42, W.L. 17.6cc, pH 9.0, PV 12, YP 14, Solids 5%, Gels 2/7

Additives: Gel 4700, Caustic 100, Sawdust 25

Surveys:

1109' - 1 3/4°

1139' - 1 3/4°

1171' - 1 1/2°

1203' - 1 1/2°

1235' - 1 3/4°

1266' - 2 1/8°

1297' - 1 7/8°

Drilling with 160 rpm and 5000 to 10000 weight in order to minimize the deviation.

Lithology - Interbedded shale, grey to dark grey, micromicaceous; and sandstone, dark grey, very fine grained, quartz with carbonaceous specks, subangular, well sorted, silica and argillaceous cemented. Ironstone, brown, sublithographic is a minor component. Starting at 1240 numerous fractures filled with calcite or anhydrite, buff, finely crystalline.

Base of Permafrost 1300 ft. - based on minor gas kick.

January 13

Weather - 15 below with light breeze.

Drilled 1310' - 1530' = 220 ft. with bit #4A, with 6 (9"), 2 (8"), 1 (6 3/4") collars and stabilizers at 60 ft. and 90 ft.

Bit #4A (YT3), 12 1/2", 250 ft., 20 hr. #876693 with 3 (#12) jets.

Mud: Wt. 9.2#, Vis. 45, W.L. 17.4 cc, pH 9.0, PV 18, YP 22, Gels 2/9, Solids 6%.

Additives: Gel 4700, Caustic 50, Sawdust 15.

Surveys:

1328' - 1 1/8°

1359' - 1 1/2°

1391' - 1 1/4°

1421' - 1 1/8°

1452' - 1/2°

1483' - 1°

1530' - 1/2°

Drilling with 4000 - 20000 lbs. and 160 rpm to minimize deviation. Stuck for 3 hours 15 ft. above bottom while pulling out after survey at 1530 ft. Spent a further 1 hour pumping out 7 singles.

January 13
(Cont'd)

Lithology - Predominantly shale, grey to dark grey, micromicaceous, with interbedded silt, dark grey, micaceous, indurated, with carbonaceous specks and sandstone, grey to dark grey, very fine to fine grained, quartz - light colored chert - numerous carbonaceous specks, subangular, well sorted, silica and argillaceous cement. Frequent chips of ironstone, brown, sublithographic. Fractures filled with anhydrite start at 1240 ft. but other fractures are present filled with calcite, pyrite or dolomite.

January 14

Weather - 12 below - light breeze.
Reamed 0' - 517' = 517 ft. to 17½" with 6 (9"), 2 (8"), 1 (6 3/4") collars and 17½" stabilizers.
Mud: Wt. 9.4#, Vis. 47, W.L. 17.2 cc, pH 8.5, PV 28, YP 11, Gels 3/11, Solids 7%
Additives: Gel 1000, Caustic 100, Sawdust 41
Surveys: Nil
Changed stabilizer rubbers to 17½". Lay down one 9" collar. Lay down hydril and spool and pick up 20" conductor pipe barrel.
Weld on flow line. Redrill mouse hole.
Break out kelly spinner and kelly cock. Break apart galled joint below swivel, grind off galled threads, screw together and weld same.
Ream to 17½".
Mix mud for lost circulation at 517' caused by mud ring.

January 15

Weather - 35 below with strong winds. Road with 4' drifts.
Reamed 517' - 1047' = 530 ft. to 17½" with 6 (9"), 2 (8"), 1 (6 3/4") collars and 17½" stabilizers.
Mud: Wt. 9.8#, Vis. 62, W.L. 16.3 cc, pH 9.0, PV 27, YP 30, Gels 3/11, Solids 10%
Additives: Gel 8200, Caustic 150, Benex 4, Kwikseal 15
Surveys: 874' - 1°
At 517' mix mud and lost circulation material. Work pipe. Hole bridged-off. Lay down 2 singles and circulate hole. Reaming hole to 17½", at 12000 to 20000 weight and 140 - 160 rpm.

January 16

Weather - 35 below with moderate winds.
Reamed 1047' - 1394' = 347 ft. to 17½" with 6 (9"), 2 (8"), 1 (6 3/4") collars and 17½" stabilizers.
Mud: Wt. 9.9#, Vis. 88, W.L. 16.2cc, pH 9.0, PV 28, Yl 44, Gels 4/11, Solids 10%
Additives: Gels 6100, Benex 26, Caustic 150
Surveys: Nil
Changed reamers at 1100'. Using security hole openers with pilot bit. Reaming hole to 17½" at 20000 weight and 140 rpm, with 400 to 525 psi pump pressure using 6" liners and 120 - 140 spm.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1590', K.B. 1615', CBF 1612'

WEEKLY REPORT NO. 8 FOR WEEK ENDING MIDNIGHT JANUARY 23, 1972

January 17

Weather - 19 below with moderate winds.
Reamed 1394' - 1524' = 130 ft. with 6 (9"), 2 (8"),
1 (6 3/4") collars and 17 1/2" stabilizers.
Mud: Wt. 9.9#, Vis. 88, W.L. 16.2 cc, pH 9.0, PV 28,
YP 44, Gels 4/11, Solids 10%
Additives: Gel 2400, Caustic 200, Benex 8
Surveys: Nil
Changed cutters on security hole opener at 1520 ft.
Reamed 12 1/2" hole to 17 1/2" with 500 psi and 132 rpm,
20000 weight. Circulated hole and made dummy trip.

January 18

Weather - 10 below with mild wind.
Ran 1527.24 ft. of new Mannesman 13 3/8", J-55, 68 lb.
BRT, Short T & C, Range 1 and 2 casing landed at bottom
of reamed hole at 1524 (K.B.) including Baker guide shoe
and float collar. Baker centralizer in centre of shoe
joint and on collar below ground level. Thread locked
shoe and collar, and weld bottom 2 casing collars.
Cemented with 15% oilwell plus 2% calcium chloride.
Displaced first 50 bbl. with B.J. cementer and balance
with rig pump after unions started leaking.
Plug down 9:30 A.M. January 18 with bump of 1300 psi.
Top of cement 8 ft. below casing bowl flange. Added
8 sacks to fill same.
Set Slips and cut casing immediately.
Nippling up B.O.P.'s.

January 19

Weather - 10 below with gale winds in afternoon.
Mud: Wt. 9.6#, Vis. 41, W.L. 12.0, pH 9.5, PV 18
YP 4, Gels 1/6, Solids 10%
Additives: Nil
Nippling up B.O.P.'s.
Pressured blind rams and manifold to 1500 psi with no leaks.

January 20

Weather - 2 above zero.
Drilled 1530' - 1680' = 150 ft. with bit #1 with 6 (9"),
3 (8"), 3 (6 3/4") collars and stabilizers at 30 and 90 ft.
Bit #1 (DT-J), 12 1/2", 150 ft., 13 hr. 3 (#12) jets, #GS139
Mud: Wt. 9.1#, Vis. 38, W.L. 10.4, pH 10.5, PV 12,
YP 11, Gels 5/25, Solids 6%.
Additives: Bicarb 600, Gel 2100, WL 100 (150), Benex 8
Surveys:
1602' - 1 1/2°
1665' - 1

January 20
(Cont'd)

Interbedded shale, grey and dark grey, micromicaceous.
Silt, grey and dark grey, micromicaceous, indurated:
Sandstone, grey, very fine grained, quartz and light
colored chert, subangular, well sorted, silica cemented.
Starting at 1670 the sandstone becomes, in part, medium
sorted with imbedded granules of light colored chert.
Numerous fractures filled with anhydrite, white, finely
crystalline and/or calcite, white, finely crystalline.
A few chips locally of ironstone, brown, sublithographic.

January 21

Weather - 22 below with light breeze.
Drilled 1680' - 1875' = 195 ft. with bit # 1&2 with 6 (9"),
3 (8"), 3 (6 3/4") collars and stablizers at 60 and 90 ft.
on bit #2 with 90 rpm, 22000 weight and 1200 pump pressure.
Bit #1 (DT-J), 12 1/2", 204 ft., 20 hr. 3 (#12) jets, #GS139
Bit #2 (S44), 12 1/2", 141 ft., 12 3/4 hr. 3 (#12) jets, #300330
Mud: Wt. 9.4#, Vis. 35, W.L. 9.6cc, pH 9.5, PV 11,
YB 8, Gels 1/4, Solids 6%

Additives: Gel 2100, Benex 21, WL 100 (50)

Surveys:

1696' - 3/4°

1734' - 1/2°

1790' - 1/2°

1852' - 3/4°

Shale, grey to dark grey interbedded with silt, grey
to dark grey, micaceous, indurated with interbeds of
sandstone, grey, very fine grained, quartz and light
colored chert, subangular, medium sorted, silica and
argillaceous cement. Starting at 1830' some of the
sandstone lenses may be described sandstone, grey, fine
to coarse grained, quartz with light colored chert
including pale green, subrounded, poorly sorted, silica -
argillaceous - ironstone cement. A few fractures filled
with anhydrite, buff, lithographic and calcite, white,
finely crystalline.

The unevened grained sized sand that starts at 1830' was
encountered in the IOE Stony 1-50-67-30-135-15 well at
680' in the top of the Imperial formation immediately
below the Lower Cretaceous "sans sault".

January 22

Weather - 22 below with light breeze.

Drilled 1875' - 1967' = 92 ft. with bits #2&3 with 4 (9"),
5 (8"), 3 (6 3/4") collars with shock sub at 30 ft. and
stabilizers at 60 ft. and 90 ft. on bit #3 with 80 rpm,
20,000 weight and 1400 psi pump oressure.

Bit #2 (S44), 12 1/2", 214 ft., 26 1/2 hr., 3 (#12) jets, #300330
(8-8-4).

Bit #3 (M44N), 12 1/2", 19 ft., 2 1/2 hr., 2 (#12) and 1 (#13) jets,
#326201

Mud: Wt. 9.4#, Vis 38, W.L. 10.4cc, pH 9.0, PV 10,
YP 4, Gels 1/3, Solids 5%

Additives: Gel 8400, Benex 34

January 22
(Cont'd)

Surveys:

1914' - 1°

1948' - 1°

On trip at 1948' for new bit lay down two washed-out 9" drill collars and bit sub; picked up 2 (8") collars and shock sub.

Interbedded shale, grey to dark grey, micromicaceous: Silt, dark grey, micaceous, indurated grading locally to sandstone, grey, fine to coarse grained, quartz and light colored chert, subrounded, poorly sorted, silica and argillaceous cement.

Lithology suggests a shallow marine environment with short periodic evaporite conditions that deposited anhydrite in mud cracks, that formed the shale.

January 23

Weather - 10 below with light breeze.

Drilled 1967' - 2118' = 151 ft. with bits #3 and 4 with 4(9"), 5 (8"), 3 (6 3/4") collars with shock sub at 30 ft. and stabilizers at 60 ft. and 90 ft. on bits #3 and 4

with 30 rpm, 25,000 weight and 1400 psi pump pressure.

Bit #3 (M44N), 12 1/2", 91 ft., 16 1/2 hr., 2 (#12) and 1 (#13) jets, #326201, (7-2-I).

Bit #4 (5 1/2"), 12 1/2", 79 ft., 5 hr., 2 (#12) and 1 (#13) jets, #FW513.

Mud: Wt. 9.4#, Vis. 38, W.L. 10.4cc, pH 9.5, PV 10

YP 4, Gels 1/4, Solids 6%

Additives: Gel 8600, Benex 32, Caustic 100

Surveys:

1989' - 1°

2039' - 3/4°

2114' - 1 1/4°

Put new liner in IOP - 130 pump.

2000' - 2040' Interbedded sandstone, silt and shale, as above.

2040' - 2120' Shale, grey to dark grey, micromicaceous with thin interbeds of silt, dark grey, micaceous, indurated with a few carbonaceous specks. A few chips show slickensided surfaces.

2120' - 2176' Sandstone, grey, fine to coarse grained quartz with light colored chert and minor dark chert, subrounded, poorly sorted, silica - ironstone - argillaceous cement; with interbeds of silt, dark grey, micaceous, indurated; and shale, grey to dark grey, micromicaceous. A few chips of ironstone, brown, sublithographic.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', K.B. 1615', CBF 1612'

WEEKLY REPORT NO. 9 FOR WEEK ENDING MIDNIGHT JANUARY 30, 1972

January 24

Weather - 12 below with light breeze.
Drilled 2118' - 2235' = 117 ft. with bits #4 and 5 with 4 (9"), 5 (8"), 3 (6 3/4") collars, shock sub at 30 ft. and stabilizers at 60 ft. and 90 ft. with 80 rpm, 25,000 weight and 1500 pump pressure.
Bit #4 (SVH), 12½", 145 ft. 15½ hr., 2 (#12), 1 (#13) jets, FW513, 7-4-I
Bit #5 (YMG), 12½", 51 ft., 8 3/4 hr. 3 (#12) jets, #380003
Mud: Wt. 9.1#, Vis. 39, W.L. 8.8 cc, PV 13, YP 7, Gels 1/3, Solids 6%
Additives: Gel 3800, Benex 16, Caustic 50
Surveys:
2176' - 1 1/2°
Interbedded shale, grey to dark grey, micromicaceous: silt, dark grey, micaceous, a few carbonaceous specks, indurated: Sandstone, grey, fine to coarse grained, quartz and chert with light colored chert predominating, subangular, medium to poorly sorted, silica and argillaceous cement with occasional ironstone cement. Locally a few chips of ironstone, brown, sublithographic.
The shale and silt drill from 4 to 5 minutes per foot whereas the sandstone drills at 8 to 18 minutes per foot and its chert pebble content makes it very abrasive.

January 25

Weather - 5 above with light breeze.
Drilled 2235' - 2305' = 70 ft. with bits #5 and 6 with 4 (9"), 5 (8"), 3 (6 3/4") collars, shock sub at 30 ft. and stabilizers at 60 and 90 ft. with 35 - 60 rpm, 15 - 30,000 weight and 1500 pump pressure.
Bit #5 (YMG), 12½", 80 ft., 16½ hr., 3 (#12) jets, #380003, 7-6-I
Bit #6 (S88), 12½", 41 ft., 10 3/4 hr. 3 (#12) jets, #329127, 1-1-I
Mud: Wt. 9.1#, Vis. 38, W.L. 9.6 cc, pH 9.5, PV 14 YP 8, Gels 1/4, Solids 6%
Additives: Gel 4000, Caustic 100, Benex 16
Surveys:
2238' - 2 1/4°
2264' - 2 1/4°
2300' - 2 3/4°

January 25
(Cont'd)

Interbedded, shale, grey to dark grey, micromicaceous: Silt, dark grey, indurated, micaceous with a few carbonaceous specks: Sandstone, grey, fine to coarse grained, quartz and chert, subangular poorly sorted, silica - ironstone - argillaceous cement. Drilling times show the above to be thinly bedded. Tried a "long-toothed" button bit (#6) but it would not drill with a light weight and deviation problems prevented the use of an appropriate weight. The chert content of the sandstones rapidly wears the heel teeth on the tooth type bits.

January 26

Weather - 15 above with strong winds.
Drilled 2305' - 2435' = 130 ft. with bits #7 and 2 with 4 (9"), 5 (3"), 3 (6 3/4") collars, chock sub at 90 ft. with stabilizers at 90+ft. and 120 ft. with 50 - 80 rpm on bit #7 and 100 rpm on bit #8, 15 to 20,000 weight on bit #7 and 20 to 35,000 weight on bit #8, with 1500 pump pressure. Flow line temperature 92° F.
Mud: Wt. 9.1#, Vis. 43, W.L. 10.0 cc, pH 10.0, PV 14 YP 11, Gels 2/8, Solids 5%
Additives: Gel 2300, Caustic 100, Benex 10

Surveys:

2332' - 2 3/4°

2363' - 2 3/4°

2394' - 2°

2425' - 2 1/2°

Predominantly shale, grey to dark grey, micromicaceous, with a minor amount of slickensiding and a few fractures filled with primary anhydrite; with thin interbeds of silt, dark grey, micaceous with carbonaceous traces in part pyritized; and thin interbeds of sandstone, buff and grey, fine to medium grained, quartz and chert, subrounded, poorly sorted, silica- ironstone - argillaceous cement. The 2450' sample has one chip of calcite fracture - filling that shows locally fine vuggy porosity. The 2470' sample has a few chips of coal. This section, on the Baroid unit, showed a departure from the steady 5 units of background gas, varying from 5 to 9 units of methane, from the carbonaceous content of the formation.

January 27

Weather - 20 above with strong winds. Gales in afternoon. Charter flight of January 25 delayed on January 25 and 26 because of 40 to 50 below weather and fog in Edmonton. Flight made today with crews only from 3 rigs.
Drilled 2435' - 2525' = 90 ft. with bits #8 and 9 with 4 (9"), 5 (8"), 3 (6 3/4") collars, shock sub at 90 ft. with stabilizers at 90+ ft. and 120 ft. with 90 - 100 rpm and 15 - 30,000 weight with 1350 - 1500 pump pressure. Flow line temperature 88° F.

January 27
(Cont'd)

Mud: Wt. 9.1#, Vis. 37, W.L. 11.0 cc, pH 9.0, PV 11
YP 6, Gels 1/3, Solids 6%

Additives: Gel 3700, Caustic 100, Benex 14

Surveys:

2456' - 2 1/4°

2487' - 3°

2515' - 2 1/2°

At 2304' tripped because of drop in pump pressure.

Found single washed out in slip area some 5 joints above collars.

Predominantly sandstone, grey, very fine to medium grained, quartz and chert, subangular, medium sorted, silica - ironstone - argillaceous cement, interbedded with silt, grey, micaceous, indurated, and shale, grey to dark grey, micromicaceous. A few chips of ironstone, brown, sublighographic. Baroid unit shows 5 to 10 units of methane background.

January 28

Weather - 10 above with moderate winds. Roads badly drifted. Strong westerly wind throughout evening.

Drilled 2525' - 2643' = 118 ft. with bits #9 and 10 with 4 (9"), 5 (8"), 3 (6 3/4") collars, shock sub at 90 ft.

with stabilizers at 90+ ft. and 120 ft., with 70 - 100 rpm, 20,000 weight, 1350 pump pressure.

Flowline temperature 90° F.

Mud: Wt. 9.1#, Vis. 40, W.L. 10.0 cc, pH 10.0, PV 13, YP 7, Gels 1/4, Solids 5%

Additives: Gel 2000, Caustic 100, Benex 8

Surveys:

2577' - 3°

2609' - 3°

2640' - 3°

Predominantly shale, grey, micromicaceous, and silt, grey to dark grey, micaceous, indurated, with carbonaceous specks; with interbeds of sandstone, grey, fine to coarse grained, quartz and chert, subangular, in part poorly sorted, ironstone - argillaceous - silica cemented. Locally fractures filled with primary anhydrite and slickensided shale. Baroid shows 5 to 10 units of methane background.

January 29

Weather - 20 above with strong westerly winds.

Drilled 2643' - 2725' = 83 ft. with bits #10 and 11 with 4 (9"), 5 (8"), 3 (6 3/4") collars, shock sub at 90 ft. with stabilizers at 90+ ft. and 120 ft. with 90 rpm, 15 - 20,000 weight and 1400 pump pressure. Flow line temperature 90° F.

Bit #8 STIAG, 12 1/2", 130 ft. 16 1/2 hr. 8-2-I, #193874

Bit #9 S44, 12 1/2", 74 ft., 16 1/2 hr., 6-2-I, #308822

Bit #10 SDGH, 12 1/2", 114 ft., 16 1/2 hr. 6-2-I, #GB148

Bit #11 SDGH, 12 1/2", 53 ft., 7 1/2 hr., 6-3-I, #CC521

January 29
(Cont'd)

Mud: Wt. 9.1#, Vis. 42, W.L. 10.4 cc, pH 10.0, PV 14,
YP 8, Gels 2/5, Solids 5%
Additives: - Gel 1800, Caustic 50, Benex 8

Surveys:

2703' - 3 1/2°

2725' - 2 7/8°

Checked collars on trip and lay down 1 (9"), and 1 (6 3/4")
with bad boxes and pins, and 1 stabilizer washed on pin,
and 2 subs w h bad boxes and pins.

Predominantly sandstone, as above with fine interbeds
of shale and silt as above.

January 30

Weather - 20 above with strong westerly winds.

Drilled 2725' - 2781' = 56 ft. with bits #12 and 13
with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizer
at 90 ft. and shock sub at 90+ ft. with 30 rpm,
20 - 25,000 weight, 1250 to 1300 pump pressure.

Flow line temperature 82° F. just after trip for bit.

Bit #12, M44, 12 1/2", 56 ft., 15 1/2 hr., 6-2-I, #265174

Bit #13, SVH, 12 1/2", 44 ft., 6 3/4 hr., running #FW953

Mud: Wt. 9.2#, Vis. 47, W.L. 10.6 cc pH 10.0 PV 15,
YP 14, Gels 2/5, Solids 6%

Additives: Gel 2000, Caustic 50, Benex 8

Surveys:

2757' - 2 7/8°

2781' - 2 7/8°

Interbedded shale, grey, micromicaceous with fractures
filled with calcite or anhydrite, a few chips
slickensided; Silt, dark grey, micaceous, indurated,
in part slightly carbonaceous; Sandstone, grey, fine
to coarse grained, chert and quartz, subangular, in
part poorly sorted, silica - ironstone - argillaceous
cement, with streaks of poor porosity along the bedding
planes from 2757' - 2775' (average porosity < 2%) which
gave a gas kick in the mud up to 250 units.

At present Baroid shows background of 5 to 10 units.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1590', K.B. 1615', CBF 1593'

WEEKLY REPORT #10 FOR WEEK ENDING MIDNIGHT FEBRUARY 6, 1972

January 31

Weather - 20 above with light breezes. Roads drifted.
Drilled 2781' - 2928' = 147' with bits #13 and 14 with
4 (9"), 5 (8"), 3 (6 3/4"), collars, stabilizers at
90 ft. and shock sub at 90+ ft., with 80 rpm, 25-30
weight and 1500 pump.
Flowline temperature
Bit #13, SVH, 12 1/4", 137 ft., 15 3/4 hr., 6-3-I, #FW953,
3 (#12) jets
Bit #14, SVH, 12 1/4", 10 ft., 3 1/4 hr. running #FW863,
1 (#13) - 2 (#12) jets
Mud: Wt. 9.2#, Vis. 39, W.L. 12.0cc, pH 9.0, PV 12,
YP 5, Gels 1/4, Solids 6%
Additives: Gel 4300, Caustic 100, Benex 18, Barite 1000,
WL 100 (50).

Surveys:

2820' - 2 1/2°
2851' - 2 1/4°
2883' - 2 1/4°
2913' - 2 3/4°

Rig inspection by M. V. Thomas, District Conservation
Engineer.

Predominantly shale, grey and dark grey, micromicaceous
with thin interbeds of silt, grey and dark grey, indurated,
in part arenaceous, in part slightly carbonaceous; and
sandstone, grey to buff, fine to coarse grained, chert
and quartz, subangular, poorly sorted, silica-ironstone-
argillaceous cement. The 2920' - 2950' sample is 80%
sandstone, as above.

February 1

Weather - 15 above with light breeze. Still clearing
drifted road.
Drilled 2928' - 3010' = 82' with bits #14 and 15 with
4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizer at 90 ft.
and shock sub at 90+ ft. with 80 rpm, 25-30 weight and 1400
pump.
Bit #14, SVH, 12 1/4", 57 ft., 13 hr. 6-2-I, #FW863,
1 (#13) - 2 (#12) jets
Bit #15, SVH, 12 1/4", 35 ft., 10 1/4 hr., running #FW564,
3 (#12) jets
Mud: Wt. 9.2#, Vis. 38, W.L. 9.6cc, pH 9.5, PV 11,
YP 8, Gels 1/4, Solids 6%, MBC 3.0%
Additives: Gels 3100, Caustic 100, Benex 14, W.L. 100 (50)
Surveys:
2944' - 1 7/8°
2975' - 2 1/4°
3007' - 1 3/4°

February 1
(Cont'd)

Coarsely interbedded shale, grey, micromicaceous; silt, grey and dark grey, micaceous, indurated, in part pyritic; and sandstone, grey and buff, fine to coarse grained, subangular, well to poorly sorted, chert and quartz, silica-ironstone-argillaceous cement. The light colored, pale green and black chert have the toughness of jadite and the bit breaks them cleanly across with no subsidiary cracking. There is, in addition, a small amount of the dark translucent chert which breaks with numerous subsidiary cracks as it is brittle and thus resembles the Mississippian chert of the foothills.

February 2

Weather - 10 below and calm. Still clearing drifted roads.
Drilled 3010' - 3020' = 10' with bit #15
Bit #15, SVH, 12 1/4", 45 ft., 13 3/4 hr. 7-2-0 (1/2"),
FW#564, 3 (#12) jets
Reamed 14 ft. of undergauge hole with bit #16
Drilled 3020' - 3057' = 37 ft. with bit #16 after tripping
and picking up near bit nobby reamer and moving stabilizer
to 30 ft. above bit. With 4 (9"), 5 (8"), 3 (6 3/4")
collars using 60 rpm, 40 weight and 1425 pump.
Bit #16, YMG, 12 1/4", 37 ft., 11 hr. #685,856, 1 (#11) and
2 (#13) jets
Mud: Wt. 9.2#, Vis. 43, W.L. 10.4cc, pH 9.0, PV 12,
YP 11, Gels 2/3, Solids 6%
Additives: Caustic 50, Barite 800

Surveys:

3044' - 1 7/8°

Measured at 3036.59' with 0.73 difference. No correction.
Predominantly sandstone, grey and buff, fine to coarse
grained, chert and quartz, subangular, poorly sorted,
silica-ironstone-argillaceous cement with thin interbeds
of silt, grey, micaceous, indurated; and shale, grey and
dark grey, micromicaceous, in part with dustlike pyrite.
A few chips of ironstone, brown, sublithographic. A few
fractures filled with quartz or calcite or anhydrite.

February 3

Weather - 15 below with light wind. Still clearing drifted
road.
Drilled 3057' - 3149' = 92 ft. with bits #16 and 17 with
4 (9"), 5 (8"), 3 (6 3/4") collars, a near bit nobby reamer,
a stabilizer at 30 ft. and a shock sub at 90 ft., using
35-40 weight, 60 - 70 rpm and 1350 - 1550 pump.
Bit #16, YMG, 12 1/4", 89 ft., 17 1/2 hr., #685,856,
(11,12,12) jets, 8-2-I
Bit #17, XD7, 12 1/4", 40 ft., 12 1/4 hr., #VA820
(11,13,13) jets, 5-1-I
Mud: Wt. 9.1#, Vis. 37, W.L. 9.2cc, pH 9.0, PV 9, YP 17,
Gels 1/3, MBT 3.0
Additives: Gel 1900, Caustic 100, Benex 8, Barite 800
Surveys:
3076' - 2°
3107' - 2 1/8°
3138' - 2 1/4°

February 3
(Cont'd)

Interbedded sandstone, silt and shale as previously described but becoming more shaley toward base. Also toward base the sandstone becomes in part very argillaceous grading to an arenaceous shale with coarse grained chert inclusions:

February 4

Weather - 5 below with breeze. Still clearing drifted road. Drilled 3149' - 3275' = 126 ft. with bit #6 rerun and 18 with 4 (9"), 5 (8"), 3 (6 3/4") collars, a near bit nobby reamer, a stabilizer at 20 ft. and a shock sub at 90 ft. using 25-30 weight, 50 - 60 rpm, and 1550 pump.

Bit #6, S88, 12 1/4", 91 ft., 11 1/2 hr., #329127, (11, 12, 13), 2-1-I

Bit #18, XDV, 12 1/4", 35 ft., 6 1/4 hr., #38018, (11, 13, 13)

Mud: Wt. 9.2#, Vis. 38, W.L. 8.6cc, pH 9.0, PV 11, YP 10, Gels 1/3, Solids 5%, MBT 3.5

Additives: Caustic 100, Gel 2100, Benex 8, WL 100 (150)

Surveys:

3170' - 2 1/4°

3202' - 2 1/8°

3223' - 2 7/8°

3263' - 2 1/2°

Baroid shows 5 to 10 units of background.

D 7 cat being repaired.

Predominantly shale, grey, micromicaceous with thin interbeds of silt, grey to dark grey, micaceous, indurated, in part slightly carbonaceous; and sandstone, grey and buff, fine to medium grained, quartz and chert, subangular, medium sorted, ironstone-argillaceous-silica cement. A few fractures filled with quartz-or calcite or anhydrite. A few chips of ironstone, brown, sublithographic.

February 5

Weather - 18 below with breeze and light snow. Road good. Drilled 3275' - 3374' = 99 ft. with bits #18 and 19 with 4 (9"), 5 (8"), 3 (6 3/4") collars, a near bit nobby reamer, a stabilizer at 30 ft. and a shock sub at 90 ft. using on bit #19, 20 weight, 35-56 rpm, and 1550 pump.

Flowline temperature 89°F.

Bit #18 (XDV), 12 1/4", 78 ft., 14 1/2 hr., 38018, 6-2-I (11, 13, 13)

Bit #19 (X44), 12 1/4", 69 ft. 13 1/2 hr., #HZ377, (12, 12, 13)

Mud: Wt. 9.1#, Vis. 45, W.L. 8.2cc, pH 9.5, PV 11, YP 18, Gels 2/6, MBT 3.5

Additives: Gel 1700, Benex 14, Caustic 50.

Surveys:

3294' - 1 3/4°

3318' - 3 Misrun

3325' - 2 1/8°

3356' - 2 3/4°

D 7 cat being repaired.

The lithology as above. Whereas the sandstone around 3000' was mostly chert, the present sandstone lenses alternate between predominantly chert and predominantly quartz.

February 6

Weather - 26 below with breeze and light snow. Road good.
Drilled 3374' - 3436' = 72 ft. with bit #19, with 4 (9"),
5 (8"), 3 (6 3/4") collars, a near bit nobby reamer, a
stabilizer at 30 ft. and a shock sub at 90 ft. using 20
weight, 50-60 rpm and 1550 pump.

Flowline temperature 90°F.

Bit #19 (X44), 12 1/4", 118 ft., 22 1/4 hr., HZ377, (12,12,13)

Mud: Wt. 9.1#, Vis. 40, W.L. 8.0cc, pH 9.0, PV 12, YP 16,

Gels 1/2, Solids 5% MBT 3.0

Additives: Gel 3900, Caustic 50, Benex 16

Surveys:

3387' - 2 1/2°

3419' - 2 1/4°

Repairs to electrical controls on drawworks - 7 1/4 hr.

Trip at 3422' to recover Totco barrel when Halliburton
line broke while surveying.

Predominantly shale, grey to dark grey, micromicaceous
with thin interbeds of silt, grey, micaceous, indurated;
and sandstone, grey and buff, fine to medium grained,
quartz and chert, subangular, medium sorted, silica-
ironstone-argillaceous cement. A few chips of ironstone,
brown, sublithographic. Fractures filled with white,
finely crystalline quartz.

Baroid shows approximately 5 units of background.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No: 300B256720135300
Elevations: Ground 1590', K.B. 1615', CBF 1593'

WEEKLY REPORT #11 FOR WEEK ENDING MIDNIGHT FEBRUARY 13, 1972

February 7

Weather - 20 below. Light wind and light snow. Roads drifting.

Drilled 3436' - 3539' = 103 ft. with bits #19 and 20 with 4 (9"), 5 (8"), 3 (6 3/4") collars with near bit nobby reamer, stabilizer at 30 ft. shock sub at 90 ft., using 20 - 30 weight, 40 - 56 rpm and 1350 - 1550 pump.

Bit #19 X44, 12 1/4", 218 ft., 40 hr. #HZ377, 1-1-I, 12, 12, 13

Bit #20, XDV, 12 1/4", 3 ft., 1/2 hr. #38024, 12, 12, 12

Mud: Wt. 9.1#, Vis. 48, W.L. 8.6cc, pH 8.5, PV 16, YP 15, Gels 2/8, Solids 5%, MBT 3.0

Shale factor 10 mc/100 gm shale.

Additives: Gel 3500, Caustic 100, Benex 14, Barite 800

Surveys:

3449' - 2 1/2°

3481' - 2 3/4°

3512' - 2 1/2°

Strung new Halliburton line.

Shale, grey to dark grey, micromicaceous with rare carbonaceous traces; thinly interbedded with sandstone, grey to dark grey, very fine grained, quartz and both light - dark chert, subangular, well sorted in part, silica-argillaceous cement. Numerous chips of ironstone, brown, sublithographic.

February 8

Weather - 20 below. Light wind, light drifting.

Drilled 3539' - 3678' = 139 ft. with bits 20 and 21 with 4 (9"), 5 (8"), 3 (6 3/4") collars with near bit nobby reamer, stabilizer at 30 ft. shock sub at 90 ft., using 20 - 25 weight, 50 - 60 rpm and 1550 pump.

Bit #20, XDV, 12 1/4", 140 ft., 17 3/4 hrs., #38024 (12, 12, 12), 4-1-I

Bit #21, SVH, 12 1/4", 2 ft., 3/4 hr., #II064, (3-12)

Mud: Wt. 9.1#, Vis. 47, W.L. 8.8cc, pH 9.5, PV 15, YP 25, Gels 3/9, Solids 5% MBT 3.0

Additives: Gel 5500, Caustic 100, Benex 22, Barite 3300

Surveys:

3543' - 3°

3573' - 2 7/8°

3605' - 3 1/8°

3637' - 3°

3668' - 2 7/8°

This section shows uniformity of samples which consist of shale, dark grey, micromicaceous, fissil with a few carbonaceous traces with 30 - 50% of sample sandstone, grey to dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. Quartz-filled fractures. Baroid shows 5 units of background.

February 9

Weather - 22 below with light wind. Light drifting.
Drilled 3678' - 3828' = 150 ft. with bit #21 with 4 (9"),
5 (8"), 3 (6 3/4") collars with near bit reamer, stabilizer
at 30 ft. shock sub at 90 ft., using 20-25 weight, 50-60 rpm
and 1600 pump.

Bit #21 SVH, 12 1/4", 152 ft., 21 1/4 hr., #II064, (3-12)

Mud: Wt. 9.1#, Vis. 63, W.L. 8.4cc, pH 8.5, PV 18, YP 42,
Gels 5/11, Solids 5%, MBT 3.5, ShF 10

Additives: Gel 3500, Caustic 100, Benex 14

Surveys:

3700' - 3°

3763' - 2 3/4°

3795' - 3°

3826' - 3 1/2°

Shale, dark grey, micromicaceous, fissil, with a few
carbonaceous traces with interbeds of sandstone (20-50%),
grading to silt, grey, very fine grained, quartz and chert,
subangular, well sorted, silica-argillaceous cement. A few
chips of ironstone, brown, sublithographic. Numerous
fractures filled with white quartz and white, finely
crystalline anhydrite.

February 10

Weather - 24 below with light wind. Light drifting.

Drilled 3828' - 3918' = 90 ft. with bit #21, 22, 23 with
above string, but changed when bit #23 ran to only a
stabilizer at 90 ft. and a shock sub at 90+ ft., with 4 (9"),
5 (8"), 3 (6 3/4"), collars with 20 weight, 55-65 rpm, 1600 pump.
Bit #21, SVH, 12 1/4", 155 ft., 21 3/4 hr., II064, (3-12) jets,
5-3-I

Bit #22, STIAG, 12 1/4", 65 ft., 11 1/4 hr. #884366, (3-#12)
jets, 2-1-I

Bit #23, SVH, 12 1/4", 4 ft., 3/4 hr., #HH022, (3-#12) jets

Mud: Wt. 9.1#, Vis. 47, W.L. 7.2cc, pH 9.3, PV 16, YP 21

Gels 2/6, Solids 5%, MBT 4.5

Shale factor 9.0

Additives: Gel 3400, Benex 14, Barite 1700

Surveys:

3889' - 3 1/2°

3914' - 4°

Very finely interbedded shale, dark grey, micromicaceous
with slickensided anhydrite fracture filling; and sandstone
(grading to silt), grey, very fine grained, quartz and
chert, subangular, well sorted, silica and argillaceous
cement, with fractures filled with white quartz and/or
dolomite. Few chips of ironstone, brown, sublithographic.
Baroid unit shows 4 - 5 units of background.

February 11

Weather - 12 below with light wind. Road good.

Drilled 3918' - 4040' = 122 ft. with bit #23, with 4 (9"),
5 (8"), 3 (6 3/4"), collars, with stabilizer at 90 ft.
shock sub at 90+ ft. and string reamer at 180 ft. with
15-20 weight, 55-85 rpm, 1700 - 1800 pump.

Bit #23 SVH, 12 1/4", 144 ft., 25 1/2 hr. #HH022, (3-#12) jets

Mud: Wt. 9.1#, Vis. 47, W.L. 7.2 cc, pH 9.3, PV 16, YP 21

Gels 2/6, Solids 5%, MBC 4.5

Shale factor 9.0. Flowline temperature 91°F.

February 11

Additives: Gel 1500, Caustic 100, Benex 6

Surveys:

3946' - 5 3/4°

3977' - 4°

4007' - 5 3/4°

4039' - 5 1/2°

Interbedded shale, dark grey, micromicaceous with occasional anhydrite-filled fracture; and sandstone, grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous cement with a few white quartz-filled fractures. A few chips ironstone, brown, sublithographic. Sample log time 60 minutes. Trip gas time 50 minutes. Baroid unit shows 4 - 5 units of background.

February 12

Weather - 30 below with moderate wind. Roads drifting.

Drilled 4040' - 4181' = 141 ft. with bits #23 and 24, with 4 (9"), 5 (8"), 3 (6 3/4") collars, with stabilizer at 90 ft. shock sub at 90+ ft. and string reamer at 180 ft. with 12-15 weight, 95 rpm, 1700 - 1800 pump.

Bit #23 SVH, 12 1/4", 149 ft., 26 1/4 hr., #HHO22, (3-#12) jets, 5-3-I

Bit #24 XDG, 12 1/4", 136 ft., 15 1/4 hr., #38030, (3-#12) jets, 5-2-I

Mud: Wt. 9.1#, Vis. 40, W.L. 10.4cc, pH 9.0, PV 14, YP 19, Gels 2/4, Solids 5%, MBT 3.0

Additives: Gel 2400, Caustic 100, Benex 10, Barite 2500

Surveys:

4045' - 6 1/4°

4078' - 5 3/4°

4109' - 5°

4140' - 6 1/4°

4170' - 6°

Shale factor 10. Flowline temperature 86°F. Desilter 13.9 and 9.0 lb./gal.

Interbedded shale, dark grey, micromicaceous with a few carbonaceous specks; and sandstone, grey, very fine grained, quartz-chert, subangular, well sorted, silica-argillaceous cement. Two periods of fracturing as indicated by fracture filling (1) filled with white, finely crystalline anhydrite, (2) filled with quartz crystals with more recent dolomite crystals, in part producing fracture vugs.

Baroid shows 3 - 5 units of background.

February 13

Weather - 30 below with 20 mph wind. Roads drifting.

Drilled 4181' - 4293' = 112 ft. with bit #25 with 4(9"), 5 (8"), 3 (6 3/4"), collars with stabilizers at 60 and 90 ft., shock sub at 90+ ft., string reamer at 180 ft. with 15-18 weight, 96 rpm, 1450-1650 pump.

Bit #25 XDG, 12 1/4", 112 ft., 14 1/2 hr., #38033, (2-#12, 1-#13) jets, 4-2-I

Mud: Wt. 9.1#, Vis. 43, W.L. 9.8cc, pH 9.5, PV 14, YP 12 Gels 2/4, MBT 4.0, Solids 5%

Shale factor 9.5. Flowline temperature 86°F. Desilter 9.0 and 12.8 lb./gal.

Additives: Gel 4300, Caustic 50, Benex 18, Barite 1200

February 13
(Cont'd)

Surveys:

4251' - 5°

4272' - 5 3/4°

Interbedded shale, dark grey, micromicaceous; and silt, grey, indurated, micaceous grading to sandstone, grey, very fine grained, quartz-chert, subangular, well sorted, silica-argillaceous cement. Numerous fractures filled with white finely crystalline anhydrite and white or translucent quartz with or without dolomite. Few chips ironstone, brown, sublithographic.

Baroid shows 2 or 3 units of background.

Have had no success in attempting to correlate the lithology of the Imperial formation of this well and the same formation at ICE Stony 1-50-67-30-135-15

Richfield et al Pt. Separation No. 1

IOE Navajo M-5

IOE Swan Lake K-28

The lack of correlation is probably due to the stratigraphic service logs being logged by three different geologists. The subtle differences expected in the lithology would require the same geologist to log the four wells paying attention to grain size and composition of sand components.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #12 FOR WEEK ENDING MIDNIGHT FEBRUARY 20, 1972

February 14

Weather - 30 below and calm. Roads drifted from previous 2 days.
Drilled 4293' - 4461' = 168' with bit #26 with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizer at 60', stabilizer at 90', shock sub at 90+ ft. and string reamer at 180' with 15-24 weight, 60-96 rpm, 1450 - 1650 pump.
Bit #26 (S44), 12 1/4", 168', 18 1/2 hr. #219244, (3-#12), 4-2-I.
Mud: Wt. 9.2#, Vis. 65, W.L. 8.2cc, PV 20, YP 47, Gels 6/15, Solids 6%, MBT 4.5, shale factor 9.0. Flowline temperature 87° F, Desilter 11.9 and 9.0 ppg.
Additives: Gel 3500, Caustic 100, Benex 14, Barite 1200
Surveys:
4335' - 6°
4398' - 4 1/2°
4461' - 6 3/4°
Interbedded shale, dark grey, micromicaceous; and silt, grey, indurated, micaceous grading to sandstone (predominating below 4450'), grey, very fine grained, quartz-chert, subangular, well sorted, silica-argillaceous cement. A few chips of ironstone, brown, sublithographic. A few fractures filled with quartz and/or dolomite.
Baroid shows 2 units of background.

February 15

Weather - 40 below and light breeze. Roads drifted from previous blows.
Drilled 4461' - 4585' = 124' with bit #27 and 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90', shock sub at 95' and string reamer at 180', with 18 weight, 80-90 rpm, 1650 - 1700 pump.
Bit #27 (SDGH), 12 1/4", 124', 18 3/4 hr., #HN 846, (3-#12) jets, 5-2-I.
Mud: Wt. 9.2#, Vis. 52, W.L. 8.4 cc, pH 9.5, PV 17, YP 32, Gels 5/8, Solids 6%, MBT 4.5, shale factor 9.0, Flowline temperature 86° F, Desilter 13.2 and 9.0 ppg.
Additives: Gel 3300, Caustic 100, Benex 14, Barite 1500
Surveys:
4523' - 6°
4555' - 3 1/2°
4585' - 6°
4450' - 4510' Sandstone (70%), medium grey, very fine to fine grained, very well cemented, argillaceous, tight; shale (30%), dark grey.
4510' - 4560' Shale (75%), dark grey, micromicaceous, chunky, medium hard; sandstone (25%), medium grey, silty, very fine grained, as above.
4560' - 4600' Sandstone (60%), as above; shale (40%), as above.
Baroid shows 2 - 4 units of background.

February 16

Weather - 32 below and clear. Roads fair.

Drilled 4585' - 4727' = 142' with bit #28 with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90', shock sub at 95' and string reamer at 270', with 18-20 weight, 96 rpm and 1650 pump.

Bit #28 (XDG), 12 1/4", 142', 16 1/4 hr., #38026, (12,12,12 jets), 5-2-I.

Mud: Wt. 9.2#, Vis. 53, W.L. 8.8cc, pH 9.6, PV 26, YP 25, Gels 4/21, Solids 6%, MBT 4.5cc, shale factor 7.0, repair desilter.

Additives: Gel 5200, Caustic 50, Benex 20, WL 100 (50)

Surveys:

4617' - 6°

4648' - 5°

4678' - 5 1/2°

4710' - 6 1/4°

Interbedded shale, dark grey, micromicaceous; siltstone, grey, indurated, in part arenaceous; and sandstone, grey, very fine to fine grained, quartz and chert, subangular, well sorted, silica and argillaceous cement. A few chips of ironstone, brown, sublithographic. A few fractures filled with anhydrite or quartz.

Baroid shows 2 - 5 units of background.

February 17

Weather - 20 below with light breeze. Roads good.

Drilled 4727' - 4804' = 77' with bit #29 with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90', shock sub at 95' and string reamer at 270', with 15-20 weight, 80-98 rpm and 1750 pump.

Bit #29 (SSIGJ), 12 1/4", 77', 14 hrs., #794400, (12,12,12 jets), 5-1-I.

Mud: Wt. 9.3#, Vis. 45, W.L. 9.6 cc, pH 9.0, PV 20, YP 9, Gels 3/5, Solids 7%, MBT 4.3 cc, shale factor 10.0, Desilter 12.4 and 9.2 ppg.

Additives: Gel 3000, Caustic 150, Benex 12

Surveys:

4742' - 6°

4773' - 6°

Interbedded shale and sandstone, as above.

Fault at 4800' predicated because of amount of slickensided shale, increase in flowline temperature and decline of hole deviation below 4800'.

February 18

Weather - 26 below, calm. Roads good.

Drilled 4804' - 4897' = 93' with bit #30 with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90', shock sub at 95' and string reamer at 270' with 20 weight, 96 rpm, 1650 pump. Cleaned 40' to bottom at 4804'.

Bit #30 (ST3J), 12 1/4", 93', 15 hrs., #214413, (11,14,14 jets), 6-4-I.

Mud: Wt. 9.3#, Vis. 63, W.L. 8.8, pH 8.8, PV 27, YP 24, Gels 8/17, Solids 7%, MBT 4.8, shale factor 11.0, flowline temperature 94° F, Desilter 10.4 and 9.3 ppg.

Additives: Gel 4700, Caustic 50, Benex 18.

February 18
(Cont'd)

Surveys:

4866' - 5°

4897' - Misrun

4820' - 4830' Shale (80%), grey, micromicaceous, chunky, some slickensiding; siltstone (20%), grey, hard, sandy.

4830' - 4880' Shale (70%), as above, some slickensiding and fractures; siltstone (15%), as above; sandstone (15%), grey, very fine grained, silty, well cemented.

4880' - 4910' Shale (50%), dark grey; siltstone (30%), grey; sandstone (20%), as above.

Baroid shows 2 units of background.

February 19

Weather - 12 below, cloudy. Road drifted in places.

Drilled 4897' - 4944' = 47' with bit #31 and same hook-up as above, with 20 weight, 80 rpm, 1700-1950 pump.

Bit #31 (SDGH), 12 1/4", 47', 12 hrs. #HN 656, (12,12,12 jets), 5-2-I.

Mud: Wt. 9.3, Vis. 83, W.L. 8.8cc, pH 10.3, PV 35, YP 35, Gels 8/30, Solids 7%, MBT 5.0, shale factor 8.0, flowline temperature 96° F, desilter 10.5 and 9.3 ppg.

Additives: Gel 2200, Caustic 50, Benex 8, Barite 1500.

Surveys:

4930' - Misrun

When tripping for new bit at 4944', came out of hole laying down drill pipe in preparation of tubescoping same. Ran in with tubescoped drill pipe.

4910' - 4920' Shale (60%), dark grey, traces of fractures and slickensiding; sandstone (30%), siltstone (10%), grey.

4920' - 4950' Sandstone (70%), grey, very fine grained, silty, argillaceous, well cemented; shale (20%), dark grey; siltstone (10%), grey.

4950' - 4960' Shale (70%), dark grey, micromicaceous, chunky to slightly splintery, trace slickensiding; sandstone (30%), as above.

Baroid shows 8 units of background.

February 20

Weather - 10 below, calm. Road is good.

Drilled 4944' - 5058' = 114' with bit #32 with 4 (9"), 5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90', shock sub at 95' with 18-22 weight, 60-110 rpm, 1700 pump. Cleaned 45' to bottom at 4944'.

Bit #32 (DTJ), 12 1/4", 114', 16 1/4 hrs., #GP 056, (12,12,13 jets), 6-5-I.

Mud: Wt. 9.3#, Vis. 49, W.L. 8.6cc, pH 9.5, PV 24, YP 14, Gels 3/11. Solids 7.8%, MBT 4.5cc, shale factor 9.0, flowline temperature 96° F, desilter 11.5 and 9.3 ppg.

Additives: Gel 7800, Caustic 150, Benex 42

Surveys:

4977' - 3 1/2°

4960' - 5020' Shale (70%), dark grey, micromicaceous, chunky to platy; sandstone (30%), grey, very fine grained, silty, well cemented.

5020' - 5050' Sandstone (80%), as above; shale (20%), as above.

5050' - 5080' Shale (50%), as above; sandstone (50%), as above with fractures common, filled with anhydrite and dolomite.

5080' - 5090' Shale (80%), dark grey, as above; sandstone (10%), siltstone (10%), as above.

All the drill pipe on the location, including that in the hole was tubescoped with 66 joints rated unfit. Lay downstring reamer. Fault predicated at 4800'.

Well Name:
Location:
Identifier No.
Elevations:

Union Amoco McPherson B-25
N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
300B256720135300
Ground 1590'; CBF 1593, K.B. 1615'

WEEKLY REPORT #13 FOR WEEK ENDING MIDNIGHT FEBRUARY 27, 1972

February 21

Weather - 13 below, calm. Road good.
Drilled 5058' - 5200' = 142' with bit #33 with 4 (9"),
5 (8"), 3 (6 3/4") collars, stabilizers at 60 and 90',
shock sub at 95', with 24-28 weight, 100 - 110 rpm, 1500 -
1600 pump. Clean 30' fill at 5058'.
Bit #33 (X1G), 12 1/4", 142', 18 3/4 hrs. #HD 119, (12, 12,
13 jets), 7-2-I.
Mud: Wt. 9.2#, Vis. 58, W.L. 9.0 cc, pH 10.5, PV 26, YP 25,
Gels 4/14, Solids 6.5%, MBT 4.5, shale factor 9.0, flowline
temperature 92° F, desilter 12.7 and 9.1 ppg.
Additives: Gel 14000, Caustic 100, Benex 128
Surveys:
5058' - 3°
5135' - 3°
5200' - 3 1/2°
Strap out at 5200' with 1.43 difference - no correction.
5090' - 5110' Sandstone (60%), grey, very fine grained,
silty, well cemented with numerous fractures; shale (40%),
dark grey, micromicaceous, chunky.
5110' - 5230' Shale (60%), as above. Few chips of brown
ironstone; sandstone (30%), as above; siltstone (10%),
as above.
Baroid shows 8 units of background.

February 22

Weather - 4 above with strong winds. Roads drifting badly.
Trucks took 3 1/2 hours returning from meeting plane at
Fort McPherson to camp, a distance of 30 miles.
Drilled 5200' - 5323' = 123' with bit #34 with same hook-
up as above, with 24 weight, 110 rpm, 1600 - 1700 pump.
Changed stabilizer rubber at 5200' and cleaned 20' to bottom.
Bit #34 (X1G), 12 3/4", 123', 18 1/2 hrs., #36472, (12, 12, 13
jets), 7-2-I.
Mud: Wt. 9.0#, Vis. 45, W.L. 10.0 cc, pH 9.3, PV 21,
YP 12, Gels 2/5, Solids 5%, MBT 4.5cc, shale factor 8.0,
flowline temperature 93° F., desilter 12.6 and 8.9 ppg.
Additives: Gel 6700, Caustic 50, Benex 32, Lubflo 1800,
HME 120, Barite 1400.
Surveys:
5260' - 3 3/4°
Interbedded shale, dark grey, micromicaceous, with a few
carbonaceous specks and traces; and silt, grey, indurated
grading to sandstone, grey, very fine grained, quartz and
chert, with carbonaceous specks, subangular, well sorted
silica-argillaceous-in part slightly dolomitic cement with
a number of fractures filled with white, finely crystalline
anhydrite or quartz, white or smokey and/or dolomite, white,
finely crystalline. Few chips of ironstone, brown, sub-
lithographic.
Baroid shows 0-3 units of background following 3 hours of
10-15 units after trip for bit.

February 23

Weather - 2 above with intermittent strong winds. Road drifted shut for 4 miles.

Drilled 5323' - 5471' = 148' with bit #35 with same hook-up as above, with 20 - 24 weight, 110 rpm, 1700 - 1750 pump. Cleaned 10' fill at 5323'.

Bit #35 (S44), 12 1/4", 148', 16 1/4 hrs., #375768, (12,12,13 jets), 6-8-I.

Mud: Wt. 9.0#, Vis. 55, W.L. 7.4 cc, pH 10.0, PV 25, YP 23, Gels 3/12, Solids 5%, MBT 4.5cc, shale factor 7.0, flowline temperature 94° F, desilter 12.4 and 9.0 ppg.

Additives: Gel 1500, Caustic 100, Benex 6, Barite 1500.

Surveys:

5323' - 4°

5386 - 4°

5447' - 4°

5471' - 4°

Changed stabilizer rubber at 5471'.

Interbedded shale, dark grey, micromicaceous, locally very micaceous, locally with carbonaceous specks; silt, grey to dark grey, indurated, in part micaceous, in part with carbonaceous specks; sandstone, grey to dark grey, very fine to fine grained with rare thin lense of medium grained quartz and chert with local abundant carbonaceous specks, subangular, well sorted, silica - argillaceous cement. A few chips of ironstone, brown, sublithographic. A few fractures infilled with white, finely crystalline anhydrite, or quartz, white or/and dolomite.

Baroid shows 10-15 units of background, which has been consistent from about 5400'. No evidence of porosity.

February 24

Weather - 14 below with snow and strong winds. Road blocked with drifts.

Drilled 5471' - 5630' = 159' with bits #36 and 37, with same hook-up as above with 20 - 24 weight, 110 rpm, 1550 pump. Cleaned 10' fill at 5471'. Cleaned 20' fill at 5613'. Changed stabilizer rubber at 5613'.

Bit #36 (S44), 12 1/4", 142', 15 1/4 hrs. #375588, (12,12,13 jets), 6-4-I.

Bit #37 (S44), 12 1/4", 17', 1 3/4 hrs. #375670, (12,12,13 jets). Running.

Mud: Wt. 9.1#, Vis. 55, W.L. 10.0 cc, pH 10.0, PV 25, YP 21, Gels 4/12, Solids 6%, MBT 4.5 cc, shale factor 7.0, flowline temperature 94°F, desilter 12.6 and 9.0 ppg.

Additives: Gel 4500, Caustic 150, Benex 18, Lubflo 400, Barite 1500

Surveys

5539' - 4°

5601' - 4 1/4°

Predominantly shale, dark grey, in part micromicaceous, in part with a few carbonaceous specks, with a few slicken-sided surfaces; interbedded with silt, grey, indurated grading to sandstone, grey to dark grey, quartz - chert with a few white specks and carbonaceous specks, subangular, mostly well sorted, silica-argillaceous cement. A few chips locally of ironstone, brown, sublithographic. A few fractures filled with white finely crystalline anhydrite or quartz crystals with or without white dolomite. Tarlike pellets cemented to sample chips are gilsonite added to mud system. Baroid show 5 to 10 units of background.

February 25

Weather - 4 below, calm, clear. Road still badly drifted. Drilled 5630' - 5756' = 126' with 4 (9"), 5 (8"), 3 (6 3/4") drill collars with stabilizers at 60 and 90', shock sub at 95' with 24 weight, 110 rpm, 1600 pump. Bit #37 (S44), 12 1/4", 133', 15 3/4 hrs., #375670, (12,12,13 jets), 7-4-I. Bit #38 (XIG), 12 1/4", 12', 2 3/4 hrs. #KM821, (12,12,13 jets), 7-3-I. Mud: Wt. 9.1#, Vis. 65, W.L. 9.6 cc, pH 10.5, PV 26, YP 27, Gels 8/18, solids 6%, MBT 4.8 cc, shale factor 7.0, flowline temperature 94, desilter 12.8 and 9.0 ppg. Additives: Gel 5000, Caustic 100, Benex 20, Gilsonite 500, Barite 1500.

Surveys:

5665' - 4°

5726' - 4°

Interbedded shale, dark grey, in part micromicaceous, in part with carbonaceous specks, with a few slickensided surfaces; and silt, grey, indurated, grading to sandstone, grey, fine to coarse grained, chert and quartz, frosted grains, subangular, well to poorly sorted, silica-argillaceous cement. A few fractures filled with quartz. The coarse grained cherty sandstone combined with the local silica cement make the clastics very hard, tough drilling. Baroid shows 5 to 10 units of background. Washed out shock sub at 5756' and changed both stabilizer rubbers.

February 26

Weather - 5 below, windy. Road still badly drifted. Drilled 5756' - 5861' = 105' with bit #39 with same hook-up as above but without shock sub with 24 - 35 weight, 30 - 50 rpm and 1600 pump. Cleaned 20' of fill at 5756'. Bit #39 (4JS), 12 1/4", 105', 20 1/4 hrs. #GG925, (12,12,13 jets), running. Mud: Wt. 9.1#, Vis. 55, W.L. 9.3 cc, pH 10.7, PV 24, YP 20, Gels 4/12, Solids 6%, MBT 4.6 cc, shale factor 8.0, flowline temperature 92° F., desilter 13.0 and 9.0 ppg. Additives: Gel 5200, Caustic 200, Benex 20, Lubflo 500, HME 30

Surveys:

5811' - 3 1/2°

Interbedded sandstone, grey, fine to coarse grained, chert and minor amount of quartz, subangular, poorly sorted, silica-argillaceous, in part ironstone cement; and shale, dark grey, micromicaceous, in part very silty. Numerous quartz filled fractures. A few fractures show slickensiding and imbedded grains of black hydrocarbon. This hard tough cherty sandstone that started intermittently at about 5700' probably is the equivalent of the sandstone starting at 4930' in the IOE Stony 1-50-67-30-135-15 hole. If this is so and the section is consistent, we should encounter the Hume at 7950'.

Baroid shows 0 - 5 units of background.

February 27

Weather - zero, calm after blowing all night. Road drifted. Drilled 5861' - 5999' = 138' with bit #39 with same hook-up as above, using 35 - 38 weight, 40 - 50 rpm, 1550 pump. Bit #39 (4JS), 12 1/4", 243', 42 1/2 hrs. #GG925, (12,12,13 jets), running.

Mud: Wt. 9.1, Vis. 54, W.L. 8.4, pH 10.5, PV 22, YP 20, Gels 3/14, Solids 6%, MBT 4.5 cc, shale factor 9.0, flowline temperature 94° F.

Additives: Gel 6700, Caustic 100, Benex 26, Lubflo 400.

Surveys:

5877' - 4 1/4°

5936' - 4°

5999' - 5 1/2°

Interbedded shale, dark grey, micromicaceous with rare carbonaceous traces; and sandstone, grey to buff, fine to coarse grained, chert and quartz, subangular, well to poorly sorted, silica-dolomite-argillaceous-ironstone cement. Few chips ironstone, brown, sublithographic. Few fractures filled with quartz with or without white finely crystalline dolomite.

Baroid shows approximately 5 units background.

Well Name:
Location:
Identifier No.
Elevations:

Union Amoco McPherson B-25
N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
300B256720135300
Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #14 FOR WEEK ENDING MIDNIGHT MARCH 5, 1972

February 28

Weather - zero, calm, cloudy. Road - fair.
Drilled 5999' - 6100' = 101' with bit #39 and RR #6, with
4 (9"), 5 (8"), 3 (6 3/4") drill collars with 2 stabilizers
at 60 and 90' with 35 - 38 weight, 50 rpm, 1600 pump.
Cleaned 35' fill at 6048.
Bit #39 (4JS), 12 1/4", 292', 51 3/4 hrs. #GG925, (12, 12, 13
jets), 2-2-I.
Bit #6RR, (S88), 12 1/4", 52', 9 1/4 hrs. #329127, (12, 12, 13
jets), running.
Mud: Wt. 9.0#, Vis. 55, W.L. 11.0 cc, pH 10.3, PV 22, YP 23,
Gels 4/20, Solids 5, MBT 5.2 cc, shale factor 10.0, flowline
temperature 93° F, desilter 9.8 and 9.0 ppm (2 cones are
washed).
Additives: Gel 7200, Caustic 100, Benex 40, Lubflo 750, HME 80,
Barite 1200
Surveys:
6048' - 2°
6038' - 6090' Shale, dark grey, micromicaceous, thinly
interbedded with sandstone, grey, fine to coarse grained,
chert and quartz, subangular, well to poorly sorted, silica-
dolomite-argillaceous cement.
6090' - 6150' as above plus light grey shale, light grey
silt and light grey sandstone, all with phlogopite mica.
The colorization is due to the color of the shale.
Baroid shows 5 units of background.

February 29

Weather - 15 below, clear, wind starting at 9:00 A.M. Road
fair.
Drilled 6100' - 6233' = 133' with RR#6 with same hook-up
as above with 20 - 35 weight, 48 - 64 rpm, and 1600 pump.
Bit RR#6, 12 1/4", 185', 29 1/2 hrs., #329, 127, (12, 12, 13
jets), 2-5-I.
Mud: Wt. 9.0#, Vis. 48, W.L. 8.0, PV 18, YP 18, Gels 3/8,
pH 10.0, Solids 4.5, MBT 4.3 cc, shale factor 10.0, flowline
temperature 92° F, desilter 12.4 and 9.0 ppg.
Additives: Gel 5000, Caustic 50, Benex 30, Barite 1500.
Surveys:
6123' - 4°
6186' - 6°
6233' - 5°
Predominantly shale, dark grey, micromicaceous, with thin
interbeds of silt, dark grey, indurated, argillaceous
grading to sandstone, grey to dark grey, chert and quartz,
subangular, well sorted, silica-argillaceous-dolomite cemented.
Few fractures filled with quartz and white, finely crystalline
dolomite.
Baroid shows 5 units of background.

March 1

Weather - 12 below, clear, calm. Road good.

Drilled 6233' - 6342' = 109' with RR #19, with same hook-up as above with 20 - 35 weight, 60 rpm and 1650 pump. Cleaned 30' fill at 6233'.

Bit RR #19 (X44), 12 1/4", 109', 19 3/4 hrs., #HZ 377, (12,12,13 jets), running.

Mud: Wt. 9.0, Vis. 61, W.L. 8.8 cc, pH 9.3, PV 24, YP 28, Gels 5/16, Solids 5%, MBT 4.2cc, shale factor 10.0, flowline temperature 93° F, desilter 12.6 and 9.0 ppg.

Additives: Gel 3300, Caustic 150, Benex 14, Lubflo 250, HME 1.

Surveys:

6279' - 5 1/2°

6342' - 4 1/4°

Predominantly shale, dark grey, micromicaceous, in part silty, in part with imbedded chert grains and granules, in part with carbonaceous specks; with thin interbeds of sandstone, grey, fine to coarse grained, quartz and chert (in part chert predominating), subangular, well to poorly sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic. Fractures filled with quartz with or without dolomite, and finely crystalline anhydrite.

Baroid shows 5 to 10 units of background.

"Flow-show" hooked up and operating March 1, 1972.

March 2

Weather - 15 below, clear, calm. Road good.

Drilled 6342' - 6452' = 110' with bit RR #19 and 40 using same hook-up as above, with 25 - 30 weight, 60 rpm and 1650 pump. Cleaned 90' fill at 6395'.

Bit #RR 19, 12 1/4", 162', 28 3/4 hrs., #HZ 377, (12,12,13 jets), 2-2-I.

Bit #40, 12 1/4", 57', 8 3/4 hrs. #GR 590, (12,12,13 jets), running.

Mud: Wt. 9.0, Vis. 60, W.L. 9.5 cc, pH 9.0, PV 24, YP 28, Gels 4/10, Solids 6%, MBT 4.3 cc, shale factor 11.5, flowline temperature 94° F, desilter 12.0 and 9.0 ppg.

Additive: Gel 4700, Caustic 100, Benex 18, Lubflo 650, HME 6, WL 100 (100)

Surveys:

6395' - 5°

Predominantly shale, dark grey, micromicaceous, in part a few carbonaceous specks, in part silty; with thin interbeds of silt, grey to dark grey, indurated, argillaceous, grading to sandstone, dark grey, very fine grained, quartz and chert, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures common.

Baroid shows 5 - 10 units of background.

March 3

Weather - 5 below, calm, clear. Road good.

Drilled 6452' - 6602' = 150' with bit #40, using same hook-up as above with 30 weight, 60 rpm and 1650 pump.

Bit #40 (3JS), 12 1/4", 207', 30 1/2 hrs. (12,12,13 jets), #GR 590, running.

Mud: Wt. 9.0#, Vis. 52, W.L. 8.0 cc, pH 9.0, PV 23, YP 17, Gels 2/4, Solids 6%, MBT 4.5 cc, shale factor 11.5, flowline temp. 93°F, desilter 11.8 - 9.0 ppg.

March 3
(Cont'd)

Additives: Gel 6800, Benex 38, Caustic 150.

Surveys:

6456' - 4 1/4°

6527' - 4°

6589' - 4°

Predominantly shale, grey to dark grey, micromicaceous, in part a few carbonaceous specks interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz and white, finely crystalline dolomite.

Baroid shows 5 - 10 units of background.

Anticipate Canol formation top 7650'

Hume formation top 7860'

March 4

Weather - 5 below, clear, light wind. Road with some drifting.

Drilled 6602' - 6757' = 155' with bit #40 and same hook-up as above with 30 - 35 weight, 60 rpm and 1650 pump.

Bit #40 (3JS), 12 1/4", 362', 52 1/2 hrs. #GR 590, (12,12,13 jets), running.

Mud: Wt. 9.0#, Vis. 52, W.L. 8.0 cc, pH 9.5, PV 22, YP20, Gels 2/7, Solids 6%, MBT 5.0, shale factor 12.0, flowline temperature 98° F, desilter 11.4 and 8.9 ppg.

Additives: Gel 4600, Caustic 200, Benex 40, Lubflo 800, HME 2

Surveys:

6652' - 4°

6746 - 3 1/2°

Predominantly shale, dark grey, micromicaceous, in part a few carbonaceous specks and rare slickensided surface; interbedded with sandstone, grey to dark grey, very fine to fine grained, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz with or without white, finely crystalline dolomite. Few chips of ironstone, brown, sublithographic.

Baroid shows 8 to 13 units of background.

March 5

Weather - 12 below, snowing, light wind. Road with some drifting.

Drilled 6757' - 6876' = 119' with bits #40 and 41 using same hook-up as above, with 35 weight, 60 rpm and 1650 pump.

Cleaned 50' of fill at 6861'.

Bit #40 (3JS), 12 1/4", 456', 67 hrs., #GR 590, (12,12,13 jets), 1-2-I.

Bit #41 (S88), 12 1/4", 15', 2 1/2 hrs., #344647, (12,12,13 jets), running.

Mud: Wt. 9.0#, Vis. 51, W.L. 8.0, pH 9.5, PV 23, YP 18, Gels 2/4, Solids 6%, MBT 4.5, shale factor 12.0, flowline temperature 100° F, desilter 11.9 and 9.0 ppm.

Additives: Gel 2000, Caustic 50, Benex 8, Barite 1500.

Survey:

6861' - 3 1/2°

March 5
(Cont'd)

Predominantly shale, grey to dark grey, micromicaceous with a few carbonaceous specks with interbeds of sandstone, grey, very fine grained, quartz-chert with a few carbonaceous and white specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few fractures filled with quartz and white, finely crystalline dolomite. Baroid shows 4 to 10 units of background.

Weekly Progress 5999' - 6876' = 877'.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #15 FOR WEEK ENDING MIDNIGHT MARCH 12, 1972

March 6

Weather - 20 below, clear, light wind. Road with some drifting.

Drilled 6876' - 7040' = 164' with bit #41, with 4 (9"), 5 (8"), 3 (6 3/4") drill collars, stabilizers at 60 and 90', with 35 weight, 60 rpm and 1650 pump.

Bit #41 (S88), 12 1/4", 179', 26 hrs. #344647, (12-12-13 jets), running.

Mud: Wt. 9.1#, Vis. 50, W.L. 8.0 cc, pH 9.0, PV 22, YP 17, Gels 2/4, Solids 6%, shale factor 12.5, flowline temperature 97° F, desilter 11.4 and 9.0 ppg.

Additives: Gel 4400, Caustic 150, Benex 22, Gilsonite 900, HME 6.

Survey: Nil

Shale, grey to dark grey, micromicaceous, with a few carbonaceous specks; interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz-chert with a few carbonaceous and white specks, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz and white, finely crystalline dolomite. Few chips ironstone, brown, sublithographic.

Baroid shows 7 to 10 units of background. Shale density 2.6.

March 7

Weather - 26 below, clear, calm. Road with light drifting.

Drilled 7040' - 7219' = 179' with bit #41 with same hook-up as above, with 25 - 35 weight, 55 - 65 rpm, and 1650 pump.

Bit #41 (S88), 12 1/4", 358', 49 hrs. #344647, (12,12,13 jets) running.

Mud: Wt. 9.1#, Vis. 57, W.L. 8.8cc, pH 9.0, PV 24, YP 19, Gels 2/4, Solids 6%, shale factor 10.0, flowline temperature 98° F, desilter 11.3 and 9.0 ppg.

Additives: Gel 4700, Caustic 100, Benex 26, Lubflo 500, HME 2 WL 100 (50)

Survey:

7058' - 4°

Predominantly shale, grey to dark grey, micromicaceous, with a few carbonaceous specks; with interbeds of sandstone, grey to dark grey, fine grained with rare medium grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Occasional chip of ironstone, brown, sublithographic. A few fractures filled with quartz and white, finely crystalline dolomite.

Baroid shows 5 - 10 units of background.

Shale density 2.61 - 2.63.

March 8

Weather - 20 below, calm, clear. Road with light drifting.
Drilled 7219' - 7337' = 118' with bit #41, with same hook-up as above with 35 weight, 60 rpm and 1650 pump.
Bit #41 (S88), 12 1/4", 476', 67 1/4 hrs. #344647 (12,12,13 jets) 5-4-I.

Mud: Wt. 9.1, Vis. 66, W.L. 8.0, pH 9.0, PV 29, YP 29, Gels 3/9, Solids 7%, shale factor 10.0, flowline temperature 100° F, desilter 11.4 and 9.0 ppg.

Additives: Gel 6500, Caustic 150, Benex 42, W.L. 100 (50), Lubflo 750, HME 3.

Surveys:

7276' - 3 1/2°

7337' - 4°

Predominantly shale with thin interbeds of sandstone, as of March 8/72.

Baroid showed 5 to 10 units of background.

Shale density 2.61 - 2.63.

At 7337' replaced stabilizer rubber at 90' and put string reamer at 60' in place of rubber stabilizer.

March 9

Weather - 22 below, clear, calm. Road good.
Tripped for bit at 7337'. Found stabilizer rubber at 60' completely worn-off. Installed string reamer with Q type cutters at 60'. Ran in hole to 7240' without taking any weight. At this point the string was free and rotating. As soon as the mud hit the bit, became stuck, couldn't rotate or circulate. Spent 3 1/2 hours working pipe up 45' to get circulation which gradually freed pipe. Maximum pull 110,000 over weight of string. Spent 6 1/4 hours circulating and working singles (21) out of hole till pipe was completely free. Pulled out of hole and found the new rubber stabilizer 90' above bit stripped off rubber. Lay down stabilizer and installed string reamer 60' above bit. Lay down bit #42 (S88) and picked up SVH toothed bit. Ran in to 6,000' and reamed 11 singles in hole in an attempt to remove possible keyseat at last major deviation change.

March 10

Weather - 12 below, clear, calm. Road good.
Tripped and changed bit at it was found that shanks were worn. Dressed string reamer with new pins and nobby reamers. Ran in to 6,000' and rereamed to 6,300' and reamed 6300' to 6374'. Tripped and changed from nobby to Q type cutters on string reamer. Found bit 1/4" undergauge. Ran in and hit bridge at 5870'. Had to ream from this point and thus reamed 6000' to 6300' for the third time.
Bit #42 (S88), 12 1/4", 0', 0 hr. #330205 (12,12,13 jets) 1-1-I
Bit #43 (SVH), 12 1/4", R 340', 7 1/2 hrs. #JH 783, (13,13,13 jets) 5-6-I
Bit #44 (SVH) 12 1/4", R. 370', 11 3/4hrs. #HZ 298, (14,14,14 jets), 2-1-3.
Bit #45 (XD7), 12 1/2", R. 30', 1 1/2 hr. #WH 421, (14,14,14 jets)
Mud: Wt. 9.2#, Vis. 140, W.L. 7.2 cc, pH 8.5, PV 45, YP 55, Gels 5/12, Solids 7%, MBC 4.7, flowline temperature 86° F, desilter 12.2 and 9.1 ppg.
Additives: Caustic 100

March 11

Weather - 14 below, clear, calm. Road good.

Reamed and cleaned 6300' - 6444' with considerable difficulty getting stuck.

Tripped. Changed bit and layed down string reamer. Ran in to 4000' and circulated 3/4 hour.

Ran in to bridge at 5735'.

Circulated 2 hours conditioning mud and raising viscosity to 220.

Spent 4 1/2 hours cleaning from 5735' to 6373', where became stuck several times with 300 to 800 increase in pump pressure while stuck.

Circulated and conditioned mud. Abundant caving over shaker.

Spent 2 hours cleaning to 6404'.

Bit #45 (XD7), 12 1/4", R. 574', 10 hrs. #WH 421, (3-14 jets) 1-1-Under 1/8".

Bit #46 (SS1G), 12 1/4", R. 669', 6 1/2 hrs. #794394, (3-14 jets).

Running.

Mud: Wt. 9.4, Vis. 108, W.L. 8.0 cc, pH 9.0, PV 39, YP 37, Gels 5/15, Solids 8%, MBC 4.7, flowline temperature 92° F, desilter 12.4 and 9.1 ppg.

Additives: Gel 5500, Caustic 100, Benex 18

March 12

Weather 12 below, clear, windy. Road with bad drifting.

Cleaned and reamed from 6444' - 6834' with abundant cavings and cuttings passing over the shaker and several large pieces of stabilizer rubber.

Bit #46 (SS1G), 12 1/4", R. 1099', - 30 1/2 hrs. #794394, (14,14,14 jets)

Mud: Wt. 9.4#, Vis. 170, W.L. 7.2 cc, pH 9.0, PV 43, YP 56, Gels 10/24, Solids 7%, MBC 5.2, Flowline temperature 90° F, desilter 12.0 and 9.3 ppg.

Additives: Gel 3400, Caustic 150, Benex 42.

From the experience of the past week we now know that the shale sections in the hole have caved considerably and with the relatively low viscosities and low annular velocity the hole was not cleaning and the caves acted as settling tanks for the cavings and cuttings. The time factor of the hydration of the shales also reached its critical point. The above factors combined with the lengthy time intervals between trips while running button bits, caused the hole condition to deteriorate to the point where it was necessary to clean out the hole from 5735' to 7337'. The intermittent gauge hole (sandstone) and caves (shale), together with a number of stabilizer rubbers in the hole have made the clean out a lengthy job and a ticklish job with the string becoming stuck many times. The mud viscosity, weight and gel strengths have been raised to offset the hole conditions.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No.: 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #16 FOR WEEK ENDING MIDNIGHT MARCH 19, 1972

March 13 Weather - 14 below, snowing, windy. Road badly drifted. Tripped out and changed bit. Slip and cut line. Ran in to bridge at 6573'.
Cleaned hole 6573' - 6899' in 17 1/4 hrs.
Bit #46 (SS1G), 12 1/4", R. 1099', 30 1/2 hrs. #794394, (14,14,14 jets), 4-2-I.
Bit #47 (YHG), 12 1/4", R. 326', 17 1/4 hrs. #581095, (14,14,14 jets) Running.
Mud: Wt. 9.6#, Vis. 220, W.L. 6.4 cc, pH 9.5, PV 59, YP 72, Gels 14/32, Solids 9.5%.
Additives: Gel 1300, Benex 14, Nostick 14 gal.

March 14 Weather - 20 below, clear, calm. Road badly drifted. Cleaned hole 6899' - 6924' in 6 3/4 hrs.
Tripped and changed bit. Ran in to 6750' before having to clean hole. Cleaned from 6750' - 7027' in 11 1/4 hrs.
Bit #47 (YHG), 12 1/4", R. 351, 24 hrs. #581095 (14,14,14 jets)
Bit #48 (X1G), 12 1/4", R. 277', 11 1/4 hrs. #HE 376 (18,18,18 jets).
Mud: Wt. 9.8#, Vis. 180, W.L. 8.0 cc, pH 9.5, PV 54, YP 62, Gels 9/22, Solids 10%, MBC 5.5, flowline temperature 102°F, desilter 12.4 and 9.6ppg.
Additives: Gel 3200, Caustic 50, Benex 16, Nostick 9, Diesel 120 gals.

March 15 Weather - 16 below, clear, calm. Road partially drifted. Cleaned hole 7027' - 7185' in 13 1/2 hrs.
Tripped for bit and put on a set of 6 3/4" hydraulic jars. Cleaned 7129' - 7189' in 3 hrs.
Bit #48 (X1G), 12 1/4", R. 435', 24 3/4 hrs. #HE 376, (18,18,18 jets), 2-3-I.
Bit #49 (S44), 12 1/4", R. 60', 3 hrs., #390220, (20,20,22 jets) Running.
Mud: Wt. 9.8#, Vis. 225, W.L. 9.0, pH 9.0, PV 59, YP 85, Gels 20/35, Solids 10%, MBC 4.5, flowline temperature 100°F, desilter 11.6 and 9.5 ppg.
Additives: Gel 1600, Benex 8, Caustic 50, Barite 8000.

March 16 Weather - 12 below, calm, clear. Road is fair. Cleaned from 7189' - 7337' in 5 3/4 hrs.
Drilled 7337' - 7396' = 59' with bit #49 with 4 (9"), 7 (8"), 3 (6 3/4") drill collars and jars using 35 weight, 65 rpm and 1200 pump.
Bit #49 (S44), 12 1/4", R. 208', D. 59', 19 1/2 hrs. #390220, (20,20,22 jets), 3-3-1.
Mud: Wt. 10.2#, Vis. 165, W.L. 9.6 cc, pH 9.5, PV 50, YP 60, Gels 16/34, Solids 12%, MBC 5.0, flowline temperature 99°F, Desilter -
Additives: Gel 1800, Caustic 100, Benex 8, Barite 32000

March 16
(Cont'd)

Shale, grey to dark grey, micromicaceous, with a few carbonaceous specks with interbeds of silt, grey, indurated grading to sandstone, grey to dark grey, very fine to fine grained, quartz-chert-a few carbonaceous specks, subangular, well sorted, argillaceous-silica-dolomite cement. Sample quality is poor as shown by the considerable amount of gilsonite (which hasn't been added to the mud for 7 days) present, which indicates a goodly portion of the sample is being derived from the sloughing of cave accumulations of cuttings.

Baroid shows 5 units of background.
Shale density 2.62 to 2.63.

March 17

Weather - 10 below, overcast, calm. Road with some drifting. Tripped for bit. Slipped and cut line. Cleaned 186' to bottom in 6 1/4 hrs. Drilled 7396' - 7444' = 48' with bit #50 with 4 (9"), 7 (8"), 3 (6 3/4") drill collars, Lee jars 120', shock sub 90', with 36 - 40 weight, 70 rpm, 1300 pump. Bit #50 (M44N), 12 1/4", 48', 12 hrs. #341151, (20,20,21 jets), 2-1-I. Pulled bit as drilling slowed down to 20 minutes/ft. Mud: Wt. 9.6# (gas cut), Vis. 167, W.L. 7.4, pH 9.0, PV 55, YP 50, Gels 11/19, Solids 12%, MBC 4.5, flowline temperature 101° F.

Additives: Gel 1400, Caustic 100, Benex 8, Barite 1400

Survey:

7444' - 4°

Shale, dark grey, micaceous and micromicaceous, with a few carbonaceous specks, with interbeds of silt, grey, indurated grading to sandstone, grey to dark grey, very fine to fine grained, quartz-chert-a few carbonaceous specks, subangular, well sorted, silica-argillaceous-dolomite cement. A few chips of ironstone, brown, sublithographic. Fractures common, filled with quartz and dolomite.

Abundant slickensided shale 7420' - 7430' indicative of fault.

Baroid shows 5 units of background.
Shale density 2.63.

March 18

Weather - 6 below, clear, calm. Road fair. Tripped for bit. Cleaned 155' to bottom in 2 hours. Drilled 7444' - 7520' = 76' with bit #51 with same hook-up as above, with 40 weight, 90 rpm and 1250 pump. Bit #51 (S44), 12 1/4", 76', 16 3/4 hrs., #375834, (20,20,22 jets) Running.

Mud: Wt. 10.4#, Vis. 159, W.L. 7.6, pH 9.0, PV 55, YP 60, Gels 11/21, Solids 12%, MBC 5.5, flowline temperature 98°F. Additives: Gel 2800, Benex 14.

Silt, grey to dark grey, indurated grading to sandstone, grey to dark grey, very fine to fine grained, quartz-chert, well to medium sorted, subangular, argillaceous-silica-dolomite cement, with interbeds of shale, dark grey, micaceous to micromicaceous, with a few carbonaceous specks, in part slickensided. Fractures filled with quartz and dolomite. Sample quality is poor as indicated by amount of gilsonite in samples.

Baroid shows 2 to 5 units of background.
Shale density 2.63 - 2.64.

March 19

Weather - 2 above, light overcast, calm. Road good.

Drilled 7520' - 7550' = 30' with bit #51 with same hook-up as above.

Trip for bit. Work on light plant and No. 3 gyro.

Cleaned 210' of fill in 5 1/4 hrs.

Drilled 7550' - 7575' = 25' with bit #52 with same hook-up as above, with 35 weight, 90 rpm and 1650 pump.

Bit #51 (S44), 12 1/4", 106', 24 1/2 hrs. #375834, (20,20,22 jets) 3-5-I.

Bit #52 (X1G), 12 1/4", 25', 4 hrs. #KM 815, (18,22,22 jets) Running.

Mud: Wt. 10.4#, Vis. 119, W.L. 7.0, pH 9.0, PV 44, YP 53, Gels 9/17, Solids 12%, flowline temperature 98° F, MBC 6.0.

Additives: Gel 2900, Caustic 150, Benex 14, Barite 2000

Survey:

7550' - 5°

Shale, grey to dark grey, micromicaceous, with a few carbonaceous specks with slickensiding common interbedded with silt, dark grey, indurated and sandstone, dark grey, very fine to fine grained, chert-quartz, subangular, well sorted, argillaceous-silica-dolomite cement. Numerous fractures filled with white, fine crystalline anhydrite or quartz mixed with dolomite. Sample quality is poor as shown by amount of gilsonite present.

Baroid shows 2 to 4 units of background. Shale density 2.63.

We are not getting the thin interbeds of grey, fine crystalline limestone that should be present 50' above the Canol formation, thus the fault at 7420' is responsible for an unknown amount of displacement.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #17 FOR WEEK ENDING MIDNIGHT MARCH 26, 1972

March 20

Weather - 4 below, light overcast, calm. Road fair.
Drilled 7575' - 7653' = 78' with bit #52, with 4 (9"),
7 (8"), 3 (6 3/4"), drill collars and shock sub at 90'
and jars at 120' with 35 weight, 100 rpm and 1450 - 1600
pump.
Bit #52 (X1G), 12 1/4", 103', 22 1/4 hrs., #KM 815, (18,18,
22 jets), 5-6-I.
Mud: Wt. 10.4#, Vis. 146, W.L. 7.0 cc, pH 9.5, PV 50, YP 63,
Gels 9/19, Solids 11%, MBC 5.0, flowline temperature 107° F.
Additives: Gel 1400, Caustic 100, W.L. 100 (200), Barite 1600
Survey:
7653' - Misrun
Shale, grey - greybrown-dark grey, micromicaceous, a few
carbonaceous specks, in part slickensided with interbeds
of sandstone, dark grey, very fine to medium grained, chert
and quartz, subangular, well to poorly sorted, silica-
argillaceous-dolomite cement. Numerous fractures filled
with white, fine crystalline anhydrite, or quartz-dolomite
mixture. Sample quality poor - abundant gilsonite.
Baroid shows 5 units of background.
Shale density 2.63.

March 21

Weather - 4 below, clear, calm. Road fair.
Tripped in hole with bit #53. Spent 3 3/4 hrs. cleaning
310' to bottom.
Drilled 7653' - 7732' = 79' with bit #53 with same hook-up
as above, with 35 weight, 100 rpm and 1900 to 1450 pump.
Bit #53 (XDG), 12 1/4", 79', 17 1/4 hrs. #38055, (18,18,22 jets)
Running.
Mud: Wt. 10.4#, Vis. 145, W.L. 6.4 cc, pH 9.5, PV 60, YP 62,
Gels 8/17, Solids 12.0%, MBC 4.5, flowline temperature 103° F.
Additives: Gel 4500, Caustic 50, Benex 20, Barite 40000
Shale, grey-greybrown-dark grey, micromicaceous, a few
carbonaceous specks, considerable slickensiding with interbeds
of sandstone, dark grey, very fine to fine grained, chert-
quartz-in part micaceous, in part carbonaceous, subangular,
well sorted, argillaceous-silica-dolomite cement. A few
chips of ironstone, brown, sublithographic. Prominent
fractures filled with white, fine crystalline anhydrite or
white quartz.
Baroid shows 5 units of background.
Shale density 2.63 to 2.61.
No. 2 motor is down with broken turbo.

March 22

Weather - 14 below, calm, overcast. Road fair.
Drilled 7732' - 7747' = 15' with bit #53
Tripped and cleaned 165' of fill in 2 hours.

March 22
(Cont'd)

Drilled 7747' - 7791' = 44' with bit #54 with same hook-up as above with 35 weight, 80 rpm and 1600 pump.
Bit #53 (XDG), 12 1/4", 94', 21 3/4 hrs., #38055 (18,18,22 jets) 4-4-I.

Bit #54 (XV), 12 1/4", 44', 9 1/2 hrs. #EX 879 (18,18,22 jets) Running.

Mud: Wt. 10.7#, Vis. 142, W.L. 6.0 cc, pH 9.0, PV 67, YP 58, Gels 17/17, Solids 13.0, MBC 6%, flowline temperature 103° F.
Additives: Gel 1200, Caustic 100, Benex 6, Barite 2500

Survey:

7747' - 4 1/2°

Standby light plants are both down.

Turbo from No. 2 motor in Edmonton for repairs.

Shale, grey-greybrown-dark grey, micromicaceous, in part slickensided, in part silty, a few carbonaceous specks interbedded with silt, dark grey, indurated, grading to sandstone, grey to dark grey, very fine to fine grained, quartz and chert, subangular, well sorted, argillaceous-silica-dolomite cement. Fractures filled with quartz. Gilsonite (from mud) common. Abundance of slickensided shale in first sample after each trip since 7420' shows fault caving badly.

Baroid shows 5 - 8 units of background.

Shale density 2.63 - 2.65.

March 23

Weather - 18 below, calm, overcast. Road fair.

Drilled 7791' - 7838' = 47' with bit #54 with same hook-up as above, with 35 weight, 85 rpm and 1450 pump.

Tripped bit #54 out.

Bit #54 (XV), 12 1/4", 91', 21 3/4 hrs. #EX 879, (18,18,22 jets), 3-4-I.

Mud: Wt. 10.7#, Vis. 121, W.L. 6.4 cc, pH 9.5, PV 56, YP 48, Gels 8/18, Solids 13.0%, MBC 4.5, flowline temperature 107° F.

Additives: Gel 1800, Benex 6, Barite 1500.

Shale, grey to dark grey, micromicaceous, in part slickensided, in part silty, a few carbonaceous specks, interbedded with silt, dark grey, indurated, grading to sandstone, grey to dark grey, very fine to fine grained, quartz and chert, subangular, well sorted, argillaceous-silica-dolomite cement. Fractures filled with quartz. Cavings from fault show numerous fractures filled with buff, finely crystalline anhydrite.

Baroid shows 5 units of background.

Shale density 2.63 to 2.64.

March 24

Weather - 14 below, calm, clear. Road good.

Ran in with bit #55 and cleaned 268' to bottom in 3 hours.

Drilled 7838' - 7909' = 71 ft. with bit #55 with same hook-up as above, with 35 weight, 80 rpm and 1600 pump.

Bit #55 (SS1G), 12 1/4", 71', 18 3/4 hrs. #794402, (18,18,22 jets) Running.

Mud: Wt. 10.7#, Vis. 123, W.L. 7.2 cc, pH 9.5, PV 61, YP 54, Gels 6/14, Solids 13.0, flowline temperature 101° F.

Additives: Gel 2000, Caustic 150, Benex 8

March 24
(Cont'd)

Shale, grey to dark grey, micromicaceous, in part slickensided, a few carbonaceous specks interbedded with sandstone, dark grey, fine grained, chert and quartz, subrounded, well to medium sorted, silica cemented. Fractures filled with quartz. Abundant well cuttings from caves. Sample quality very poor.

Baroid shows 0-4 units of background.

Shale density 2.63 to 2.64.

March 25

Weather 12 above, calm, light overcast. Road good.

Drilled 7909' - 7926' = 17' with bit #55 with same hook-up as above, with 35 weight, 80 rpm and 1600 pump.

Tripped for bit. Had to pump out first 8 singles. Worked 1/2 hour on electrical system. Ran in and cleaned 206' to bottom in 8 hours.

Drilled 7926' - 7928' = 2' with bit #56, as above.

Bit #55 (SS1G), 12 1/4", 88', 25 hr. #794402, (18,18,22 jets) 2-2-I.

Bit #56 (S44), 12 1/4", 2', 1/2 hr. #378632, (22,22,22 jets) Running.

Mud: Wt. 10.7#, Vis. 141, W.L. 6.0, pH 9.5, PV 57, YP 56, Gels 5/11, Solids 13%, MBC 5.5, flowline temperature 102° F. Additives: Gel 1900, Caustic 50, Benex 8, Barite 2500.

Survey:

7926' - 3 1/4°

Shale, dark grey, micromicaceous, in part slickensided, with a few carbonaceous specks interbedded with sandstone, grey, very fine grained, chert-quartz, subangular, well sorted, silica-argillaceous-dolomite cement. Few chips ironstone, brown, sublithographic.

Baroid shows 0 - 2 units of background.

Shale density 2.63 - 2.64.

March 26

Weather - 22 above at 7:00 A.M. dropping to 10 below at 9:00 A.M., cloudy, windy. Road fair with minor drifting.

Drilled 7928' - 8010' = 82' with bit #56 using same hook-up as above with 45 weight, 80 rpm, and 1400 - 1550 pump.

Bit #56 (S44), 12 1/4", 84', 23 hrs. #378632 (22,22,22 jets) 6-3-I.

Mud: Wt. 10.7#, Vis. 220, W.L. 6.6 cc, pH 9.5, PV 70, YP 70, Gels 11/27, Solids 13%, MBC 5.5, flowline temperature 107°F. Additives: Gel 3000, Caustic 100, Benex 4, WL 100 (300), Barite 2500.

Survey:

8010' - 2 3/4°

Shale, dark grey, micromicaceous, in part slickensided, a few carbonaceous specks and traces interbedded with sandstone, grey, very fine grained, chert and quartz, subangular, well sorted, argillaceous-silica-dolomite cemented. Much gilsonite in 8000' sample shows sloughing of caves.

Baroid shows 0 - 2 units of background.

Shale density 2.64.

March 26
(Cont'd)

Experienced considerable hole trouble during the week while pulling off bottom and a substantial amount of hole fill which had to be cleaned out before drilling could be started after tripping. The mud weight was raised to 10.7lb./gal. and when this did not help the viscosity was raised from 120 to 220 sec. The raise in mud weight and viscosity resulted in a slower penetration rate. The amount of gilsonite in the samples is considerable and is coming from the sloughing of caves, in that gilsonite has not been added to the mud for over two weeks. It appears to be a question of living with a low annular velocity in 12 1/4" plus overgauge holes and caves which collect cavings and cuttings and then slough, until intermediate casing point is reached.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #18 FOR WEEK ENDING MIDNIGHT APRIL 2, 1972

March 27

Weather - 22 below, clear after 2" snow. Road - light drifting.

Hoist at 8010' and pump out 6 singles. Pick up 2 more drill collars. Ran in and cleaned 140' to bottom in 2 hours. Drilled 8010' - 8053' = 43' with bit #57 with 5 (9"), 8 (8"), 3 (6 3/4") drill collars with shock sub at 90' and jars at 120', with 35 - 50 weight, 40 - 95 rpm and 1750 pump. Bit #57 (XV), 12 1/4", 43', 12 hrs. #FB016, (22,22,22 jets) Running.

Mud: Wt. 10.7#, Vis. 194, W.L. 5.6 cc, pH 9.5, PV 70, YP 70, Gels 10/25, Solids 13%, MBC 5.0, Flowline temperature 112° F. Additives: Gel 1300, Caustic 50

Shale, grey to dark grey, micromicaceous, in part slickensided, a few carbonaceous specks, interbedded with sandstone, grey, very fine to fine grained, chert and quartz, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz and dolomite. Sample quality poor as shown by gilsonite content.

Baroid shows 0 - 2 units of background.

Shale density 2.64

March 28

Weather - 10 below, calm, light overcast. Road good.

Drilled 8053' - 8082' = 29' with bit #57.

Tripped for bit. Tight 2 stands off bottom. Cleaned 200' to bottom in 2 3/4 hours.

Drilled 8082' - 8096' = 14' with bit #58 with same hook-up as above, with 45 weight, 80 rpm and 1850 pump.

Bit #57 (XV), 12 1/4", 72', 22 1/4 hrs. #FB016 (22,22,22 jets) 4-2-I

Bit #58 (M44N), 12 1/4", 14', 3 1/2 hrs. #326200, (22,22,22 jets) Running.

Mud: Wt. 10.7#, Vis. 194, W.L. 5.6 cc, pH 9.5, PV 70, YP 70, Gels 10/25, Solids 13%, MBC 5.0, Flowline temperature 112° F. Additives: Caustic 50, Barite 1600.

Survey:

8082' - 2 1/2°

Shale, grey to dark grey, micromicaceous, in part slickensided, in part silty and arenaceous interbedded with sandstone, grey, very fine to fine grained, chert and quartz, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz.

Baroid shows 2 units of background.

Shale density 2.64.

March 29

Weather - 20 below, calm, light overcast after 1" of snow.
Road good.
Drilled 8096' - 8177' = 81' with same hook up as above,
with 45 weight, 70 - 80 rpm and 1850 pump.
Trouble in electric system at rig - 1 1/2 hrs.
Bit #58 (M44N), 12 1/4", 95', 25 1/2 hrs. #326200, Running.
Mud: Wt. 10.7#, Vis. 240, W.L. 6.1, pH 9.7, PV 70, YP 73,
Gels 12/28, Solids 14%, Flowline temperature 112° F. MBC 5.2
Additives: Gel 1000, Caustic 150.
Shale, dark grey, micromicaceous, in part slickensided, in
part silty, in part slightly carbonaceous interbedded with
sandstone, grey, very fine to fine grained, chert and
quartz, subangular, well sorted, silica-argillaceous-
dolomite cement. Many fractures filled with quartz.
Baroid shows 2 units of background.
Shale density 2.64.

March 30

Weather 30 below, calm, overcast after light fall of snow.
Road good.
Pull out of hole to change bits.
Spent 11 hours locating electrical problems at rig. Master
electrician flown in from Edmonton.
Ran in hole and cleaned 60' to bottom in 3/4 hr.
Drilled 8177' - 8202' - 25' with bit #59 with same hook-up
as above, with 50 weight, 95 rpm and 1850 pump.
Bit #58 (M44N), 12 1/4", 95', 25 1/2 hrs. (22,22,22 jets)
#326200, 3-3-I
Bit #59 (M44N) 12 1/4", 25' 5 hrs., #389249, (22,22,22 jets)
Running.
Mud: Wt. 10.7#, Vis. 240, W.L. 6.8 cc, pH 9.7, PV 68, YP 74,
Gels 14/45, Solids 16%, MBC 5.6, Flowline temperature 113° F
Bentonite 28 ppb, Barite 35 ppb D. Solids 72 ppb.
Additives: Caustic 50
Shale and sandstone as above. Numerous fractures filled
with quartz.
Baroid shows 1 to 4 units of background.
Shale density 2.64.
NOTE: The samples contain a considerable amount of gilsonite
that has not been added to the mud for 23 days. My
interpretation is that the sample quality is poor because
gilsonite and a fair percentage of the sample is coming
from the sloughing of caves.

March 31

Weather - 16 below, calm, clear. Road good.
Drilled 8202' - 8274' = 72' with bit #59 with same hook-up
as above, with 50 weight, 80 - 95 rpm and 1500 - 1850 pump.
Bit #59 (M44N), 12 1/4", 97', 24 1/2 hrs. #389249, (22,22,22
jets), 5-2-I.
Mud: Wt. 10.6#, Vis. 170, W.L. 6.4 cc, pH 9.0, PV 58, YP 52,
Gels 7/50, Solids 14%, Flowline temperature 113° F, Bentonite
28 ppb, Barite 35 ppb. D. Solids 67 ppb.
Additives: Gel 1300, Caustic 100, Barite 2000
Survey:
8274' - 4°
No change in the samples, still interbedded shale and sandstone.
as previously described. Numerous fractures filled with quartz
and pale green, finely crystalline anhydrite. Still considerable
gilsonite.
Baroid shows 1 to 2 units of background. Shale density 2.64-2.65.

April 1

Weather - 12 below, calm, clear. Road - light drifting.
Drilled 8274' - 8281' = 7' with bit #42 RR with same hook-up as above. Button bit would not drill
Tripped for bit. Cleaned 30' to bottom in 1/4 hr.
Drilled 8281' - 8316' = 35' with bit #60, using same hook-up as above, with 40 weight, 75 rpm and 1850 pump.
Bit #42 RR (S88), 12 1/4", 7', 4 1/4 hrs. #330,205, (20,20 24 jets), 1-1-I.
Bit #60 (K2HJ), 12 1/4", 35', 7 1/4 hrs. #HP732, (22,22,22 jets), Running.
Mud: Wt. 10.5#, Vis. 190, W.L. 6.2 cc, pH 9.5, PV 57, YP 49, Gels 7/64, Solids 14%, Flowline temperature 117° F.
Bentonite 28 ppb, Barite 27 ppb, D. Solids 70 ppb.
Additives: Gel 5000, Caustic 100
Shale, grey to dark grey, micromicaceous, in part with a few carbonaceous specks interbedded with sandstone, grey to dark grey, very fine to medium grained, quartz and chert, subrounded, well to medium sorted, silica-argillaceous-dolomite cement. Fractures filled with quartz. Gilsonite common.
Baroid shows 0 to 2 units of background.
Shale density 2.64 to 2.65.

April 2

Weather - 18 below, calm, clear. Road is good with light drifting.
Drilled 8316' - 8371' = 55' with bit #60 with same hook-up as above with 45 weight, 85 rpm and 1850 pump.
Tripped for bit. Slip 45' line. Cleaned 12' to bottom in 1/4 hour.
Drilled 8371' - 8393' = 22' with bit #61 with same hook-up as above, with 40 - 45 weight, 85 rpm and 1850 pump.
Bit #60 (K2HJ), 12 1/4", 90', 19 3/4 hrs. #HP732, (22,22,22 jets), 3-5-I.
Bit #61 (GR985), 12 1/4", 22', 3 3/4 hrs. #GR985, (22,22,22 jets) Running.
Mud: Wt. 10.4#, Vis 150, W.L. 6.4 cc, pH 9.5, PV 52, YP 52, Gels 6/45, MBC 6.0, Flowline temperature 112° F.
Additives: Gel 6300, Caustic 50, Barite 2500.
Survey:
8370' - 3 1/4°
Shale, grey to dark grey, micromicaceous, in part with a few carbonaceous specks interbedded with sandstone, grey to dark grey, very fine to medium grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Fractures filled with clear to milky quartz. A few chips of ironstone, brown, sublithographic. Gilsonite common. Some chips of sandstone from 3000' - 4000' interval shows circulation of caves.
Baroid shows 2 units of background.
Shale density 2.63 to 2.64.

Weekly progress 383' (8010' - 8393') in 100 hours on bottom averaging 3.83 ft./hr.

During the week mud weight was reduced from 10.7 to 10.3 lb./gal. in order to increase penetration rate. Mud viscosity raised from 190 to 240 seconds and gels increased to clean hole and reduce amount of cleanout after tripping for bit. After the hole cleaned up the viscosity was lowered to 150 - 180 seconds. Samples do not show any lithology correlateable with the IOE Stoney wildcat. Still in Imperial Formation.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #19 FOR WEEK ENDING MIDNIGHT APRIL 9, 1972

April 3

Weather - 2 above, calm, clear. Road - good.
Drilled 8393' - 8445' = 53' with bit #61 with 5 (9"),
8 (8"), 3 (6 3/4") drill collars, shock sub 90', jars 120',
with 45 weight, 85 rpm and 1850 pump.
Trip for bit. First stand tight. Clean 20' to bottom in
1/2 hour.
Drilled 8445' - 8461' = 16' with bit #62 with same hook-up
as above, with 35 - 40 weight, 85 rpm and 1500 - 1800 pump.
Bit #61 (DGHJ), 12 1/4", 74', 17 1/4 hrs., #GR985, (22,22,22
jets), 4-6-I.
Bit #62 (XV), 12 1/4", 16', 3 3/4 hrs. #TE624, (22,22,22 jets),
Running.
Mud: Wt. 10.3, Vis. 175, W.L. 6.4 cc, pH 9.5, PV 56, YP 52,
Gels 8/42, MBT 6.5, Flowline temperature 113° F.
Additives: Gel 3200, Caustic 100, Barite 1500.
Shale, grey to dark grey, micromicaceous, in part a few
carbonaceous specks interbedded with sandstone, grey, very
fine to fine grained, quartz and chert, subangular, well
to medium sorted, silica-argillaceous-dolomite cement.
Fractures filled with quartz.
Baroid shows 1 unit of background.
Shale density 2.64 to 2.65.

April 4

Weather - 8 above, calm, sunny Road - good.
Drilled 8461' - 8548' = 87' with bit #62 with same hook-up
as above with 45 weight, 85 rpm and 1850 pump.
Tripped for bit. Cleaned 25' of fill in 1/2 hour.
Bit #62 (XV), 12 1/4", 103', 26 1/2 hrs. TE 624, (22,22,22 jets)
4-2-I.
Drilled 8548' - 8557' = 9' with same hook-up as above, with
45 weight, 85 rpm and 1850 pump.
Mud: Wt. 10.3#, Vis. 170, W.L. 7.2 cc, pH 9.5, PV 58, YP 47,
Gels 7/50, MBC 6.0, Flowline temperature 113° F.
Additives: Gel 2800, Caustic 150
Shale, grey to dark grey, micromicaceous, in part a few
carbonaceous specks, in part a little slickensiding;
interbedded with sandstone, grey, very fine to fine grained,
quartz and chert, well to medium sorted, silica-argillaceous-
dolomite cement. A few fractures filled with milky quartz.
Gilsonite common.
Baroid shows 2 units of background.
Shale density 2.64 - 2.65.

April 5

Weather - 19 below, snowing, light wind. Road drifting.
Drilled 8557' - 8628' = 71' with same hook-up as above,
with 40 - 55 weight, 70 - 85 rpm and 1350 - 1950 pump.

April 5
(Cont'd)

Bit #63 (XV), 12 1/4", 80', 16 hrs. #VG 782, (22,22,22 jets) Running.

Mud: Wt. 10.3#, Vis. 210, W.L. 7.2 cc, pH 9.5, PV 60, YP 68, Gels 8/45, Solids 13%, MBC 6.0, Flowline temperature 113° F., Bentonite 30 ppb, Barite 24 ppb, D. Solids 62 ppb.

Additives: Gel 6500, Caustic 100

Samples as described April 4, with gilsonite common.

Baroid shows 1 - 2 units of background.

Shale density 2.64 - 2.66.

April 6

Weather - 20 below, snowing (2"), windy. Road - badly drifted. Drilled 8628' - 8691' = 63' with same hook-up as above, with 40 - 55 weight, 80 rpm, 1650 - 1800 pump.

Bit #63 (XV), 12 1/4", 108', 23 1/2 hrs. #VC 782 (22,22,22 jets) 5-2-I

Bit #64 (XV), 12 1/4", 35', 7 3/4 hrs. #FA 494, (22,22,22, jets) Running.

Mud: Wt. 10.1#, Vis. 195, W.L. 6.2 cc, pH 9.5, PV 63, YP 65, Gels 12/36, Solids 12%, Flowline temperature 113° F, Bentonite 30 ppb, Barite 22 ppb., D. Solids 56 ppb.

Additives: Gel 3700, Caustic 50, Barite 1500

Survey:

8656' - 2 1/2°

Repair blockage in airlines to electrical actuators - 1 hour.

Predominantly sandstone, grey, very fine to fine grained, quartz-chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement with interbeds of shale, grey and dark grey, micromicaceous, in part very silty. A few fractures filled with quartz. A few chips of ironstone, brown, sublithographic. Gilsonite common.

Baroid shows 1 - 2 units of background.

Shale density 2.65 - 2.67.

April 7

Weather - 18 below, snowing, calm. Road - badly drifted.

Drilled 8691' - 8746' = 55' with bit #64 with same hook-up as above with 45 - 50 weight, 80 - 90 rpm and 1750 pump.

Tripped for bit without circulating prior to trip. Cleaned 25' fill 1/2 hour.

Drilled 8746' - 8760' = 14' with bit #65 with same hook-up as above, with 40 weight, 85 rpm and 1600 pump.

Bit #64 (XV), 12 1/4", 90', 20 1/4 hrs. #FA424, (22,22,22 jets), 6-2-I.

Bit #65 (ODV), 12 1/4", 14', 2 1/2 hrs., #ED638, (22,22,22 jets) Running.

Mud: Wt. 10.0#, Vis. 180, W.L. 6.4, pH 9.0, PV 61, YP 58, Gels 10/35, Solids 11%, Flowline temperature 114° F., Bentonite 30 ppb., Barite 20 ppb., Drilled solids 50 ppb.

Additives: Gel 2300, Caustic 100, Barite 2000.

Survey:

8746' - 2°

Repairing filter can on drawworks oiler - 1 1/4 hours.

April 7
(Cont'd)

Shale, dark grey, micromicaceous, in part slickensided; interbedded with sandstone, grey to dark grey, very fine to fine grained with a few medium sized grains imbedded, subangular, well to poorly sorted, silica-argillaceous-dolomite cement. Sandstone predominant from 8720' - 8760'. A few quartz-filled fractures. Baroid shows 1 - 2 units of background. Shale density 2.65 - 2.68.

April 8

Weather - 20 below, calm, sunny. Road badly drifted. Drifts 6' high. Drilled 8760' - 8835' = 75' with bit #65 and 66 with same hook-up as above, with 50 weight, 85 rpm and 1750 pump. Tripped for bit at 8835', without prior circulating. Bit #65 (ODV), 12 1/4", 89', 21 1/4 hrs. #ED 638 (22,22,22 jets), 6-4-I. Mud: Wt. 10.0#, Vis. 190, W.L. 6.6 cc, pH 9.5, PV 63, YP 57, Gels 8/40, Solids 12%, MBC 6.4, Flowline temperature 115°F., Bentonite 32 ppb., Barite 19 ppb., Drilled solids 57 ppb. Additives: Gel 2800, Caustic 100, Barite 2500. Survey: 8835' - 3° Shale and sandstone, as previously described. Baroid shows 1 - 2 units of background. Shale density 2.67 - 2.68.

April 9

Weather - 4 above, calm, sunny. Road badly drifted. Cleaned 25' of fill after trip. Drilled 8835' - 8904' = 69' with bit #66 and same hook-up as above with 35 weight, 64 rpm and 1750 pump. Bit #66 (3JS), 12 1/4", 69', 19 1/2 hrs. #HN704E, (3-22 jets) Running. Mud: Wt. 10.0#, Vis. 155, W.L. 7.0 cc, pH 8.9, PV 61, YP 52, Gels 7/32, Solids 12%, MBC 6.0, Flowline temperature 116°F., Bentonite 30 ppb., Barite 18 ppb., Drilled solids 57 ppb. Additives: Gel 2400, Caustic 100. Fault 8860' Shale, dark grey, micromicaceous, in part slickensided, in part siliceous induration; interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz-chert, well to medium sorted, silica-argillaceous-dolomite cement. Numerous fractures filled with quartz and slickensided green anhydrite. Baroid shows 1 - 2 units of background. Shale density 2.67 - 2.68.

Summary for the Week

Drilled 8393' - 8904' = 511' in 124 1/4 rotating hours on bottom. Average penetration rate 4.12 ft. per hour. We are still drilling in the Upper Devonian, Imperial formation which is a monotonous series of interbedded shale and sandstone without definite lithological markers. Our position in the formation is further confused in that not only have we passed through several faults but we are also located on the edge of a carbonate embankment which is repeated to the east by several thousand feet of lower Imperial formation. During the week a fault was encountered at 8860', under which the shale was in part silica indurated.

Summary for the Week (Cont'd)

The Baroid unit shows a uniformly low background gas count.

The shale density has uniformly increased throughout the week.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground: 1590', CBF 1593', K.B. 1615'

WEEKLY REPORT #20 FOR WEEK ENDING MIDNIGHT APRIL 16, 1972

April 10 Weather - 12 above, calm, sunny. Still clearing drifted road
Drilled 8904' - 8990' = 86' with bit #66 with 5 (9"), 8 (8"), 3 (6 3/4") drill collars, shock sub 90', jars 120' with 35 weight, 55 rpm and 1750 pump.
Bit #66 (3JS) 12 1/4", 155', 43 hrs. #HN704E, (3-22 jets) Running.
Mud: Wt. 10.0#, Vis. 190, W.L. 6.6 cc, pH 9.5, PV 48, YP 64, Gels 7/37, Solids 12%, Flowline temperature 121° F., Bentonite 30 ppb., Barite 18 ppb., Drilled Solids 57 ppb.
Additives: Gel 1200, Caustic 100
Shale, dark grey, micromicaceous, in part with siliceous induration; interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. Numerous fractures filled with quartz.
Baroid shows 1 - 2 units of background.
Shale density 2.67 - 2.68.

April 11 Weather - 10 above, calm, sunny Road - good.
Drilled 8990' - 9078' = 88' with bit #66 with same hook-up as above, with 35 weight, 55 rpm and 1750 pump.
Bit #66 (3JS), 12 1/4", 243', 65 1/4 hrs. HN 704E, (3-22 jets) running.
Mud: Wt. 9.9#, Vis. 140, W.L. 7.1 cc, pH 9.3, PV 53, YP 49, Gels 8/28, Solids 12%, Flowline temperature 123° F., Bentonite 30, Barite 0, Drilled Solids 85 ppb.
Additives: Gel 1400, Caustic 100
Repair oil pump on catworks - 1 hour.
Sample lithology as above.
Baroid shows 1 - 2 units of background.
Shale density 2.67 - 2.68.

April 12 Weather - 12 above, calm, sunny. Road - good.
Drilled 9078' - 9091' = 13' with bit #66
Trip for bit. Cleaned 20' to bottom in 1/4 hr.
Drilled 9091' - 9132' = 41' with bit #67 with same hook-up as above, with 30 weight, 65 rpm and 1750 pump.
Bit #66 (3JS), 12 1/4", 256', 68 1/4 hrs. #HN 704E, (3-22 jets) 2-2-I.
Bit #67 (3JS), 12 1/4", 41', 12 hrs. #GM 315 (22,22,22 jets), Running.
Mud: No check as tripping.
Additives: Caustic 100, Barite 2500
Survey:
9190' - 7 1/2°
Interbedded shale and sandstone, as previously described.
9115' - 9116' Drilled in 4 minutes. Consisted of network of quartz-filled veinlets, a few of which were comb structure and with traces of porosity. No gas reading above background.
Fault

April 12
(Cont'd)

9118' - 9119' Drilled in 3 minutes. Consisted of thin interbeds of shale and black anthracite coal.
Baroid shows 1 - 2 units of background.
Shale density 2.67 - 2.68.

April 13

Weather - 20 above, calm, sunny. Road melting - starting to haul at night.
Drilled 9132' - 9171' = 39' with bit #67, with 30 weight, 85 rpm and 1750 pump.
Tripped for survey as totco wouldn't go to bottom on a wire line. Cleaned 25' of fill in 1/2 hour.
Drilled 9171' - 9186' = 15' with bit #68 with same hook-up as above, with 20 - 25 weight, 80 rpm and 1750 pump.
Bit #67 (3JS), 12 1/4", 80', 22 1/2 hrs. #GM 315 (22,22,22 jets), 2-1-I.
Bit #68 (ODV) 12 1/4", 15', 4 1/2 hrs. #HR 468 (22,22,22 jets) Running.
Mud: Wt. 10.2#, Vis. 200, W.L. 7.2 cc, pH 9.5, PV 55, YP 69, Gels 12%, Solids 12%, Flowline temperature 122° F.
Bentonite 32.5 ppb., Barite 10 ppb., Drilled Solids 95 ppb.
Additives: Gel 400, Caustic 100, Barite 2500
Interbedded shale and sandstone, as previously described.
Baroid shows 1 - 2 units of background.
Shale density 2.67 - 2.68.

April 14

Weather - 3 above, cloudy, snowing, calm. Road - good, thawing in daytime.
Drilled 9186' - 9235' = 49' with bit #68, with 25 weight, 95 rpm and 1750 pump.
Tripped for survey and bit. Cleaned 25' of fill in 1 1/2 hrs.
Drilled 9235' - 9237' = 2' with bit #69 with 20 weight, 75 rpm and 1800 pump.
Bit #68 (ODV), 12 1/4", 64', 18 hrs. #HR 468, (22,22,22 jets) 2-1-I.
Bit #69 (DS), 12 1/4", 2', 1 hr. #339068, (22,22,22 jets) Running.
Mud: Wt. 10.1#, Vis. 195, W.L. 8.0 cc, pH 9.5, PV 51, YP 65, Gels 5/28, Solids 12%, Bentonite 30 ppb., Barite 10 ppb., Drilled solids 95 ppb, Flowline temperature 123° F.
Additives: Gel 1500, Caustic 100, Barite 2500.
Survey:
9225' - 9 1/2°
Interbedded shale and sandstone, as previously described.
Baroid shows 1 - 2 units of background.
Shale density 2.68 - 2.69.

April 15

Weather - 4 below, light wind, sunny. Road - light drifting.
Drilled 9237' - 9246' = 9' with bit #69.
Tripped as bit would not drill. Had to pump out 8 singles.
Spent 2 3/4 hours cleaning from 9050' - 9246'.
Drilled 9246' - 9265' = 19' with bit #70, with same hook-up as above, with 25 weight, 70 rpm and 1800 pump.
Bit #69 (DS) 12 1/4", 11', 5 1/4 hrs. #339068, (22,22,22 jets) 1-2-I.

April 15
(Cont'd)

Bit #70 (ODV) 12 1/4", 19', 6 3/4 hrs. #EE080, (22,22,22 jets) Running.

Mud: Wt. 10.1#, Vis. 210, W.L. 7.2 cc, pH 9.5 - No mud check.

Additives: Gel 1000, Caustic 150, Barite 1500

Survey:

9246' - 9°

Interbedded shale and sandstone as previously described except 9270' - 9280' which has a few chips of brown carbonaceous shale, and brecciated to slickensided coal. Baroid shows 1-2 units of background.

Shale density 2.67 - 2.69.

April 16

Weather - 3 below, calm, sunny. Road good.

Drilled 9265' - 9303' = 38' with bit #70 with 25 weight, 85 rpm, 1750 pump.

Tripped for bit. Cleaned 25' of fill in 1 1/2 hours.

Drilled 9303' - 9314' = 11' with bit #71 with 25 weight, 75 rpm, 1750 pump.

Bit #70 (ODV), 12 1/4", 57', 18 3/4 hrs. #EE 080, (22,22,22 jets), 3-3-I.

Bit #71 (M44N), 12 1/4", 11', 3 3/4 hrs., #375563, (22,22,22 jets), Running.

Mud: Wt. 10.1#, Vis. 245, W.L. 8.0 cc, pH 9.0, PV 43, YP 83, Gels 6/35, Solids 12%, Flowline temperature 122° F., Bentonite 32.5 ppb., Barite 15 ppb., Drilled Solids 95 ppg.

Additives: Gel 2400, Caustic 100, Barite 2500.

Survey:

9303' - 9°

Shale, dark grey, micromicaceous, a few carbonaceous specks, some slickensiding, interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz-chert, subangular, well sorted, silica-argillaceous-dolomite cement. Fractures with outer layers filled with green asicular gypsum crystals and centre with quartz.

Baroid shows 1 - 3 units of background.

Shale density 2.67 - 2.69.

Summary for the Week

Drilled 8904' - 9314' = 410' in 117 1/4 rotating hours.

Bit #66, consisting of a Smith 3JS(button bit) drilled from 8835' - 9091' in 68 1/4 hours and was run in order to minimize the time lost by tripping for bits as time was of the essence. The deviation went from 3° at 8835' to 7 1/2° at 9091', and increased to 9° by the end of the next bit at 9171'. Since then the deviation has remained constant between 9° and 9 1/2°.

The mud viscosity dropped prior to a trip at 9246' and 8 singles had to be pumped out. With the correction of the mud properties no further hole troubles have been encountered. The hole is still in the Upper Devonian, Imperial formation consisting of a monotonous series of interbedded shale and sandstone without lithologic markers. A fast foot (4 minutes) at 9115' showed numerous quartz fractures in two samples taken and is interpreted as a narrow fault plane.

Summary for the Week (Cont'd)

Another fast foot (3 minutes) at 9118' showed thin interbeds of anthracite coal.

The Government notified the rig on April 15 that the drilling operation must be terminated for the summer as of April 24. In the interim time it will be necessary to run and cement 9 5/8" intermediate casing even if the Hume carbonate is not penetrated.

Well Name: Union Amoco McPherson B-25
Location: N.W.T. N. 67° 14' 00.78", W. 135° 34' 22.37"
Identifier No. 300B256720135300
Elevations: Ground 1590', CBF 1595', K.B. 1615'

WEEKLY REPORT #21 FOR WEEK ENDING MIDNIGHT APRIL 23, 1972

April 17

Weather - 3 above, calm, sunny Road - some thawing.
Drilled 9314' - 9346' = 32' with bit #71, with 25 weight, 85 rpm, 1750 pump.
Tripped for bit at 9346'. Measured and corrected depth to 9360'. Cleaned 12' of fill in 1/4 hr.
Drilled 9360' - 9370' = 10' with bit #72, with 25 weight, 85 rpm, 1750 pump, with 5 (9"), 8 (8"), 3 (6 3/4") drill collars, shock sub at 90' and jars at 120'.
Mud: Wt. 10.1#, Vis. 180, W.L. 8.0cc, pH 9.0, PV 49, YP 58, Gels 5/30, Flowline temperature 122°F., Bentonite 30 ppg, Barite 10 ppg, Drilled Solids 95 ppg.
Additives: Gel 2000, Caustic 100, Barite 2500.

Survey:

9346' - 8 1/4°

Shale, dark grey, micromicaceous, a few carbonaceous specks, some slickensiding; interbedded with sandstone, grey to dark grey, very fine to fine grained, quartz and chert, subangular, well to medium sorted, silica-argillaceous-dolomite cement. Fractures filled with gypsum and quartz. A few chips of ironstone, brown, sublithographic. Baroid shows 1 to 3 units of background. Shale density 2.67 - 2.68.

April 18

Weather - 10 above, breezy, sunny. Road - good.
Drilled 9370' - 9420' = 50' with bit #72 with same hook-up as above, with 25 weight, 85 rpm and 1750 pump.
Bit #72 (XDV), 12 1/4", 74', 20 hrs. #KD 854, (22,22,22 jets), 2-2-I
Mud: Wt. 10.1#, Vis. 195, W.L. 8.0 cc, pH 9.5, PV 51, YP 61, Gels 5/30, Solids 12%, Flowline temperature 122° F., Bentonite 30 ppb., Barite 10 ppb., Drilled Solids 95 ppb.
Additives: Gel 3200, Caustic 50, Barite 2500

Survey:

9393' - 7 1/2°

Measured out of hole. Found 8' difference. Windy - did not correct. Worked on electrical power repairs - 2 hours. Repair oil pump 1 1/2 hrs.
On trip out at 9420' lay down shock sub and jars. No change in sample lithology. Baroid shows 1 to 3 units of background. Shale density 2.67 - 2.68.

April 19

Weather - 2 above, blowing, snowing. Road is heavily drifted.

Spent 15 1/4 hours reaming 9136' to 9420'.

Drilled 9420' - 9435' = 15' with 5 (9"), 8 (8"), 3 (6 3/4") drill collars, with 35 weight, 80 rpm and 1800 pump.

Bit #73 (XDV), 12 1/4", 15', 4 1/4 hrs. #JE 250 (22,22,22 jets) Running.

Mud: Wt. 10.1#, Vis. 170, W.L. 7.2 cc, pH 9.5, PV 51, YP 60, Gels 4/32, Flowline temperature 117° F, Bentonite 30 ppg., Barite 15 ppg., Drilled Solids 105 ppg.

Additives: Gel 1200, Caustic 150

Predominantly shale, dark grey, micromicaceous, in part a few carbonaceous specks, a few slickensided surfaces, a few chips with siliceous induration; with very thin lenses of sandstone, dark grey, very fine to fine grained, quartz-chert, subrounded, well to medium sorted, silica-argillaceous-dolomite cement. A few fractures filled with quartz and dolomite.

Baroid shows 1 to 3 units of background.

Shale density 2.68 - 2.69.

April 20

Weather - 1 above, calm, sunny. Road badly drifted.

Wellsite geologist and Baroid mud logging crew left location April 20, 1972.

April 20 Drilled 9435-9475 = 39 ft. with Bit #73 with 5 (9"),
 8 (8"), 3 (6 3/4") drill collars.
 Bit #73 (XDV), 12 1/4", 55 ft., 15 1/4 hrs.,
 #JE250, (3-22 jets), 7-2-I
 Mud Wt. 10.2, Vis. 360, W.L. 7.6, pH 9.0
 Additives: Barite 7000
 Survey: 9475' - 7 deg.
 Made 35 stand dummy trip
 Circulated and conditioned hole 1 hour.

April 21 Tripped for new bit. Cleaned from 9443-9475 - 1 3/4 hours
 Circulated and conditioned hole 3 1/2 hours
 Made 15 stand dummy trip
 Circulated and conditioned hole 3 3/4 hours
 Made 10 stand dummy trip
 Circulated and conditioned hole 3 3/4 hours
 Pull 15 stands and circulate 2 hours
 Bit #74 (XV), 12 1/4", off, 0 hr., #VC725
 Mud Wt. 10.3, Vis. 400, W.L. 7.4, pH 9.5
 Additives: Caustic 100

April 22 Reaming in hole 8184 to 8400 ft. - 20 hrs.
 Circulate 1 1/2 hours
 Tripping for bit
 Bit #74 (XV), 0' , 20 hrs., #VC 725, (3-22), 1-3-I
 Mud Wt. 10.4, Vis. 220, W.L. 7.0, pH 9.5
 Additives: Gel 2300, Carbonox 100

April 23 Hoist for bit and lay down 9" drill collars
 Slip and Cut line
 Repair rotary clutch 2 1/2 hours
 Cleaning 8465 - 9025' - 15 1/2 hours
 Bit #75 (S44), 12 1/4", 0' , 15 1/2 hrs., #378308, (3-22)
 Mud Wt. 10.2, Vis. 300, W.L. 7.2, pH 9.0
 Additives: Gel 4900, Caustic 100

April 24 Cleaning 9023-9140 and working stuck pipe - 18 1/4 hrs.
 Circulate 1 1/4 hours
 Hoist 10 stands - tight
 Bit #75 (S44), 12 1/4", 0 ft., 33 3/4 hrs., #378308, (3-22)
 6-2-I
 Mud Wt. 10.3, Vis. 270, W.L. 7.0, pH 9.0
 Additives: Gel 3600, Caustic 50

April 25 Finish hoisting
 Picked up 5 only 9" drill collars and jars
 Cleaned hole 8825-9148' - 18 1/2 hours
 Bit #76 (M44), 12 1/4", 0 ft., 18 1/2 hrs., #325725, (3-22)
 Mud Wt. 10.4, Vis. 310, W.L. 7.0 pH 9.0
 Additives: Gel 900, Caustic 125, Carbonex 200

April 26 Cleaned 9148-9195' - 20 1/2 hours
 Hoist - first 20 stands tight
 Bit #76 (M44N), 12 1/4", 0' , 38 3/4 hrs., #325705, (3-22)
 Mud Wt. 10.4, Vis. 315, W.L. 7.6, pH 9.0
 Additives: Caustic 50, Carbonox 200

April 27 Finish hoisting - changed bit
 Clean 8619-9475 - 6 3/4 hours
 Hoist to run casing. Lay down 9" drill collars
 Rig to run casing after slipping drilling line
 Running 9 5/8" casing - 4 1/2 hrs.
 Bit #77 (SDGH), 12 1/4", 0' , 6 3/4 hrs., #GC 946
 Mud Wt. 10.5, Vis. 350, W.L. 6.8, pH 8.5
 Additives: nil

April 28 Running 9 5/8" casing - 12 hours
 Circulate casing 2 hours
 Lay down 2 joints of casing and pick up one joint of 47# casing
 Circulate casing 1 1/2 hours
 Rig to and run ahead of cement 50 bbl. diesel fuel,
 450 bbls. mud and 35 bbls. water - 3 hours
 Mix cement - 2 hours
 Displace cement - 1 hour. Bumped plug with 1700 psi
 Plug down: 11:25 p.m., April 28
 W.O.C. - 1/2 hour

April 29 Cleaned mud tanks
 Tear out B.O.P.'s
 Drain Gardner-Denver pump and degasser.

April 30 Cut off casing
 Displace between 13 3/8" and 9 5/8" casing to 70 ft. with
 diesel fuel
 Head up B.O.P.'s
 Ran in drill pipe to 1000 ft. and displace water with
 78 bbls. diesel fuel.
 Drain pump.

May 1 Lay down Kelly
 Drain and wash out boilers
 Clean up rig

May 2 Travel from McPherson to Edmonton

April 26 Cleaned 9148-9195' - 20 1/2 hours
Hoist - first 20 stands tight
Bit #76 (M44N), 12 1/4", 0', 38 3/4 hrs., #325705, (3-22)
Mud Wt. 10.4, Vis. 315, W.L. 7.6, pH 9.0
Additives: Caustic 50, Carbonox 200

April 27 Finish hoisting - changed bit
Clean 8619-9475 - 6 3/4 hours
Hoist to run casing. Lay down 9" drill collars
Rig to run casing after slipping drilling line
Running 9 5/8" casing - 4 1/2 hrs.
Bit #77 (SDGH), 12 1/4", 0', 6 3/4 hrs., #GC 946
Mud Wt. 10.5, Vis. 350, W.L. 6.8, pH 8.5
Additives: nil

April 28 Running 9 5/8" casing - 12 hours
Circulate casing 2 hours
Lay down 2 joints of casing and pick up one joint of 47# casing
Circulate casing 1 1/2 hours
Rig to and run ahead of cement 50 bbl. diesel fuel,
450 bbls. mud and 35 bbls. water - 3 hours
Mix cement - 2 hours
Displace cement - 1 hour. Bumped plug with 1700 psi
Plug down: 11:25 p.m., April 28
W.O.C. - 1/2 hour

April 29 Cleaned mud tanks
Tear out B.O.P.'s
Drain Gardner-Denver pump and degasser.

April 30 Cut off casing
Displace between 13 3/8" and 9 5/8" casing to 70 ft. with
diesel fuel
Head up B.O.P.'s
Ran in drill pipe to 1000 ft. and displace water with
78 bbls. diesel fuel.
Drain pump.

May 1 Lay down Kelly
Drain and wash out boilers
Clean up rig

May 2 Travel from McPherson to Edmonton

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.

À présenter en double dans les trente jours suivant l'achèvement, le remaniement, l'abandon et le reconditionnement de chaque puits, ou après suspension.

Well Name & No. - <i>Nom et n° du puits</i>		Permit No. - <i>N° de permis</i>	Lease No. - <i>N° de concession</i>
Union Amoco McPherson B-25		6239	
(Permittee, License, Lessee) - <i>(Défendeur de permis ou de licence, du concessionnaire)</i>		Exploratory Licence No. - <i>N° de licence de sondage</i>	
Union Oil Company of Canada Limited, Amoco Canada		1429 & 1431	
(Operator) - <i>(Exécutant)</i>		Exploratory Licence No. - <i>N° de licence de sondage</i>	
Petroleum Ltd.		1429	

LOCATION - EMPLACEMENT

Unit - <i>Unité</i> B	Section 25	Grid - <i>Étendue quadrillée</i> 67-20 - 135-30	Latitude 67°14'00.78"N	Longitude 135°34'22.37"W
Unique Well Identifier - <i>Code d'ordinateur</i> 300B256720135300			Universal Well Location Reference - <i>Références universelles d'emplacement du puits</i> Lat. 67.23355°N Long 135.57288°W	

	Date	Depth - Profondeur	Pool(s) Gisement(s)
Spudded Début des travaux	Jan. 8, 1972		Interval(s) Open to Production Intervalle(s) de production
Suspended Suspension des travaux	Apr. 30, 1972	9475 ft.	
Resumed Drilling Reprise des travaux	Dec. 12, 1972		
Finished Drilling Forage terminé	Dec. 6, 1972		
Deepened Approfondissement	Feb. 24, 1973	13570 ft.	
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)			
Abandoned Abandon	Mar. 8, 1973		
Rig Released Fin des travaux	Mar. 2, 1973		

Elevation: Gr. 1590 ft. K.B. 1615 ft.
 Altitude du sol du carré d'entraînement

Rig No. #2 Drilling Contractor Peter Bawden
 No de la tour de orage Entrepreneur en forage Drilling Ltd.

Contractor's Business Licence No.
 No du permis de l'opérateur

CASING RECORD - TURAGE

Casing Size (Inches) Diamètre (en pouces)	Grade Qualité	Weight Poids	Amount Longeur	Set at - Fixation à	Sacks of Cement and Additives Sacs de ciment et d'additifs
1. 20	H-40	94	40	40 (grd)	136
2. 13-3/8	K-55	68	1527.74	1524 (KB)	1578 + 2% CaCl ₂
3. 9-5/8	S00-95,N-80	47#,435#,40#	8788.36	8786.31 (KB)	1200 + 0.205% R5
4.					
5.					
6.					

Geological Tops Sommet des formations	Elevation - Profondeur		Core Record - Carottes					
	Depths Sous le niveau du sol	Sub-Sea Sous le niveau de la mer	From - de	To - à	Rec. Recupérées	From - de	To - à	Rec. Recup.
Imperial Shale	620	+995	Sidewall cores 24 shot recovered 4 shots @ 13370', 11566', 11003' and 10680.5'					
Canol	Missing							
Hume	9620	-8005						
Headless	9765	-8150						
Prongs Creek	9965	-8350						
Bear Rock	11370	-9755						
Mt. Kindle Siluro-			Log Record - Diagrammes					
Ordovician	13090	-11475	Run Serie	Type of Log Genre de diagramme	From - De	To - À		
TD	13570		1	Dual Induction- Laterolog	13566	8784		
				Borehole compensated	13568	8783		
				Sonic Log				
				Compensated Neutron-				
				Formation Density	13567	150		
				Dipmeter log	13562	8782		



Drilling Authority No. 545

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION**Application to Abandon a Well or Suspend Drilling**

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well Union Amoco McPherson B-25
Location: Unit 3 Section 25 Grid 67° 20' N, 135° 30' W
Latitude 67° 14' 00.73" N Longitude 135° 34' 22.37" W
From Established Reference Marker
Universal Well Location Reference Lat. 67.2355° N, Long. 135.57288° W
Permit No. 6239 Lease No. _____

Union Oil Company of Canada Limited and
Amoco Canada Petroleum Ltd.
(Equivalent Licence Issued)

Date of commencement of proposed program _____

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at _____
Gas at _____
Water at _____
Total Depth 13570 ft. Date of last operations March 9, 1973
Present condition of well D&A

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 20	94	40	40	136	None
2. 13-3/8	68	1527.74	1524 (K2)	1578 + 2% CaCl ₂	None
3. 9-5/8	47, 43.5, 40	8788.36	8786.31 (K3)	1200 + 0.205% R-5	None
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	8900' - 8600	Imperial Shale	450	CIP @ 7:20 PM, Mar. 8, 1973 felt plug at 8388' @ 4 AM Mar. 9, 1973
2	Run cement plugs at top surface casing using 11 sacks oil well cement. Welded steel plate on top of casing and valves outlets on spool. Welded pipe to top of casing extending 6' above ground level. Weld well head plate horizontally to top of pipe. Cement plugged mousehole and cathode using 11 sacks oil well cement each.			

The following logs have been run DILL, BECS FDC HDT
Other operations proposed Abandon well, restore well site location and access road.

Operations to be carried out by Peter Bawden Rig #2 Contractor Licence No. _____
Address 640 - 8th Avenue S.W., Calgary, Alberta Address _____
Responsible Agent in field J. J. Sullivan
Dated at Calgary, Alberta, this 9th Day of April 19 73
Signed by J. J. Sullivan Company Union Oil Company of Canada Limited
Title Drilling Superintendent Operator's Exploratory Licence No. 1429

Note:—The District Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

CONFIRMING VERBAL APPROVAL GIVEN BY MR. J. J. KIRK ON MARCH 6, 1973.Dated April 13, 1973

for

John J. Kirk
District Conservation Engineer



No de l'autorisation de forage.

MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN

DIVISION DU PÉTROLE ET DES MINÉRAUX

Demande d'abandon d'un puits ou de suspension du forage

Conformément au «Règlement sur les terres pétrolifères et gazifères du Canada», nous demandons l'autorisation d'abandonner le puits ci-après ou de suspendre les travaux de forage

Nom et n° du puits
Emplacement: Unité Section Étendue quadrillée
Latitude Longitude
Code d'ordinateur
Références universelles d'emplacement du puits
No de permis No de concession

(Dé détenteur de permis ou de licence, ou concessionnaire)

Date du début d'exécution du programme projeté

PÉTROLE, GAZ ET EAU
(Profondeur)

Pétrole à
Gaz à
Eau à
Profondeur globale Date des derniers travaux
État actuel du puits
.....
.....

TUBAGE

Diamètre extérieur (en pouces)	Poids	Longueur	Fixation à	Sacs de ciment et d'additifs	Longueur récupérée
1.					
2.					
3.					
4.					
5.					

PROGRAMME D'ABANDON PROJETÉ

Bouchon		Formation géologique	Nombre de sacs de ciment	Remarques
N°	Profondeur			
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				

Les diagrammes suivants ont été tracés:
Autres travaux projetés

Les travaux seront exécutés par No de permis de l'entrepreneur
Adresse Adresse
Agent extérieur responsable
Fait à le 19.....
Signé par Société
Titre No de licence de sondage de l'exécutant

Nota: Aviser le bureau de l'ingénieur en conservation du district avant de commencer les travaux

(A l'usage de la Division du pétrole et des minéraux)

APPROBATION

Demande étudiée et programme approuvé, sous réserve des conditions suivantes:

Date 19.....
Ingénieur en conservation du district

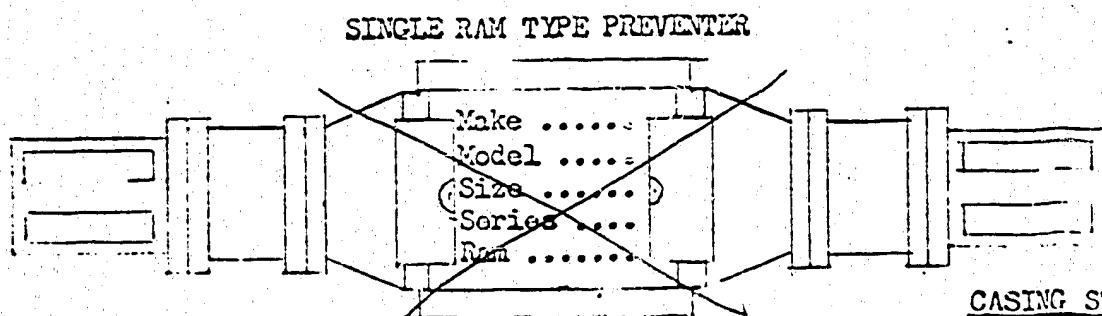
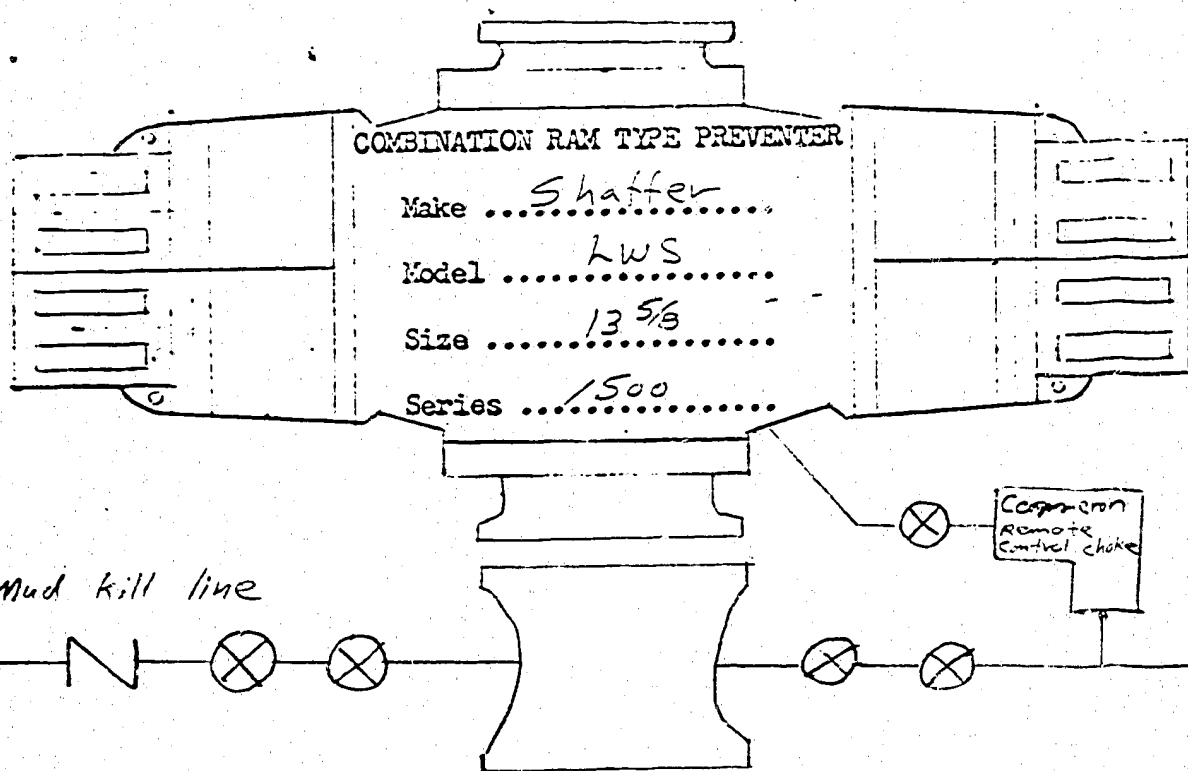
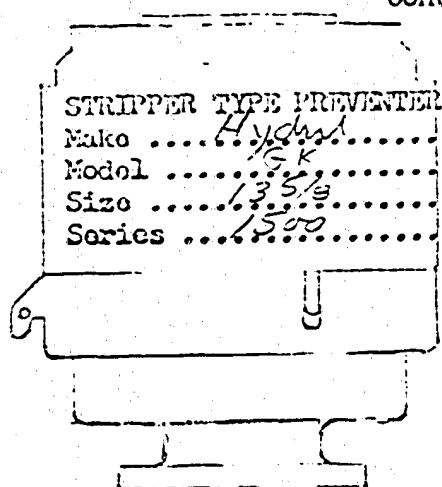
Présenter les formules en triple exemplaire à l'ingénieur en conservation du district
ministère des Affaires indiennes et du Nord canadien.

Well: McPherson B-25

Operator: V. J. M.

Contractor: Bawder Rig No. 2

Date: February 5, 1973



CASING STRINGS

Show point of tie-in and sizes of all
 Kill lines and blow down lines with valving

Type	Size	Setting Depth
Conductor	20"	42'
Parmafrost Conductor		
Surface	13 3/8	1524'
Intermediate	9 5/8	9796'

CASING BOWL OR SPOOL
 Make Commeron
 Model
 Size 13 3/8
 Series

2" vent

BOP MANIFOLD

Well: McPherson B-25

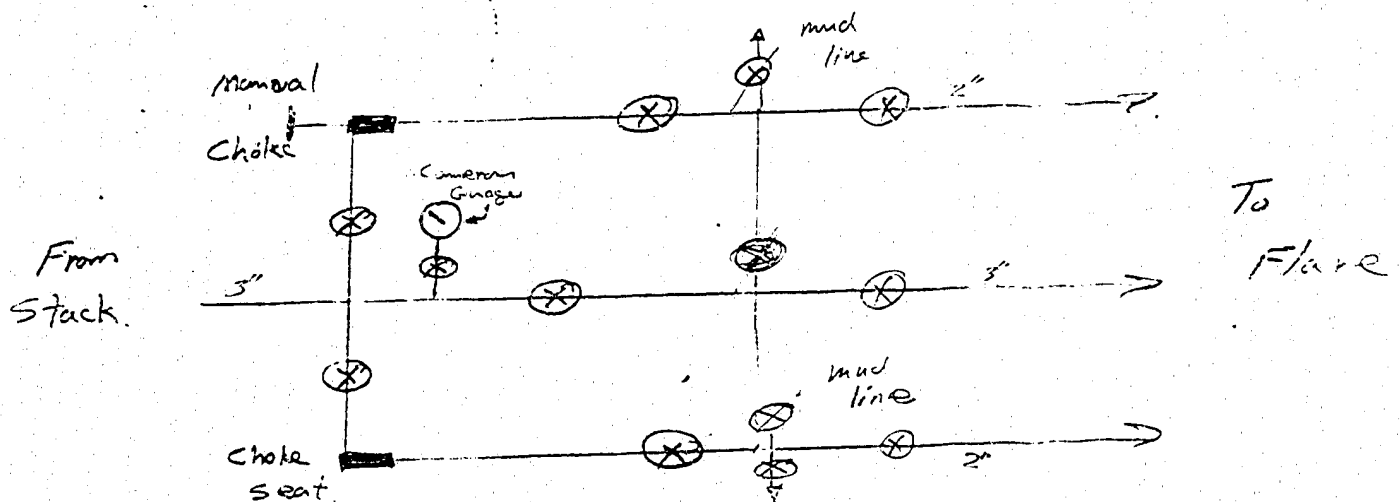
Operator: Union

Contractor: Bawden Rig No. 2

Date: February 5, 1973

Draw schematic of BOP manifold showing:

- (1) Size of all lines
- (2) Size, location and pressure rating of all remote and manual valves, chokes, and burst plates.
- (3) Termination point of all lines down stream of the manifold.



DRILLING AND SERVICE RIG INSPECTION REPORT

Date of Inspection Feb. 5, 1973..... Date of Last Inspection Mar. 14, 1972.....
 Well Name Union Amoco McPherson B-25..... Location 135.57288
 Operating Company Union Oil..... Contractor Peter Bawden..... Rig No. 2
 Operation in Progress Drilling..... Depth 10,680'
 Spud Date January 8, 1972..... D.A. No. 545..... Projected Total Depth 14,000'
 Depth of last casing string 9 5/8" at 8786'
 Toolpush Gordon Roseth..... Operators Representative Bill McIntosh..... Conservation Engineer John Kirk
 Signature..... Signature..... Signature *John Kirk*

N.B.: See Page 2 - Remarks re items checked as 'Unsatisfactory' or 'No'.

I. GENERAL

- | | | |
|--|-----|----|
| 1. D.A. posted | Yes | No |
| 2. Tour Reports complete, up to date and signed. | Yes | No |
| 3. Location of wellsite with respect to natural & installed facilities | S | US |
| 4. Sump adequately contained | Yes | No |
| 5. Housekeeping | S | US |
| 6. Radio communication in working order. | Yes | No |
| 7. Camp & kitchen facilities clean and sanitary. | Yes | No |
| 8. Adequate waste disposal | Yes | No |
| 9. Deviation surveys every 500' minimum and recorded in tour book | Yes | No |

II. SAFETY

- | | | |
|---|-----|----|
| 1. Flare pit and burn pit greater than 150' from wellbore. | Yes | No |
| 2. Boilers greater than 150' from the wellbore. Greater than 100' | Yes | No |
| 3. Rig lights operating and with protective covers. | Yes | No |
| 4. Electrical fixtures within 75' of wellbore explosion proof. | Yes | No |
| 5. Power plant grounded. | Yes | No |
| 6. Adequate gas masks; Type: Scott | Yes | No |
| 7. Resuscitator with adequate supply of air. | Yes | No |
| 8. Minimum of two 20# powder fire extinguishers in doghouse. | Yes | No |
| 9. Minimum of two 5 gal. CO ₂ fire extinguishers in each boiler house. | Yes | No |
| 10. Fire extinguishers in camp. | Yes | No |
| 11. First aid kits; No.: | S | US |
| 12. Safety goggles | S | US |
| 13. Stretchers and blankets | Yes | No |
| 14. All moving parts safely guarded | Yes | No |
| 15. Necessary guard rails in place | Yes | No |
| 16. Safety meeting held and recorded in tour book. | Yes | No |
| 17. Fuel storage greater than 75' from wellbore. | Yes | No |
| 18. Every driller has valid first aid certificate. | Yes | No |
| 19. Air support for medical emergency | Yes | No |

- | | | |
|---|-----|----|
| 20. Fireproof material in rig shelter | Yes | No |
| 21. Wiring high enough above ground for clearance. | Yes | No |
| 22. Hard hats worn on rig or in potentially dangerous areas. | Yes | No |
| 23. All breathing apparatus tested monthly & recorded in tour book. | Yes | No |

III. MUD SYSTEM

- | | | |
|--|-----|----|
| 1. Mud tank capacity | S | US |
| 2. Safety valve on pump discharge line | S | US |
| Type: | | |
| 3. Mud weight relative to depth. | S | US |
| 4. Gas analyzer. | Yes | No |
| 5. Degasser, if mud tanks in rig shelter | Yes | No |
| 6. Mud level warning system. Type: | S | US |
| 7. Condition of Kelly hose. | S | US |
| 8. Mud mixing platform clean. | Yes | No |
| 9. Studs and nuts on fluid cylinder head and valve covers. | S | US |
| 10. Pressure rating of mud discharge lines | S | US |
| 11. Mud gun anchors. | S | US |

IV. ENGINES AND FUEL

- | | | |
|---|-----|----|
| 1. Condition of motors | S | US |
| 2. Engine air inlets greater than 40' from wellbore. | Yes | No |
| 3. Engine exhausts greater than 40' from wellbore. | Yes | No |
| 4. Where engine exhausts exceed 400°F., such exhausts less than 75' from wellbore are insulated | Yes | No |
| 5. Motor safety shut down on floor. | S | US |
| 6. Condition of fuel lines. | S | US |
| 7. Shut-offs checked weekly and recorded on tour sheets. | Yes | No |
| 8. Water connections on engine exhausts working. | Yes | No |

V. FLOOR AND DERRICK

- | | | |
|--|-----|----|
| 1. Stabbing valves handy. | Yes | No |
| 2. Kelly cock operation. | S | US |
| 3. Emergency alarm. | S | US |
| 4. Tong lines and tong dies. | S | US |
| 5. Hoisting line examined weekly and recorded in tour book | Yes | No |
| 6. Exits from all four sides of rig floor. | Yes | No |

* Satisfactory
 ** Unsatisfactory

7. Pick up slings
8. Tie exits from pump house
9. Hoop line from monkey board
10. Condition of hook latch
11. All derrick floor exits open outward from floor.
12. Flushing valve adapters
13. Hoop buggy checked weekly and recorded.

S	US
Yes	No
S	US
S	US
S	US
Yes	No
Yes	No
Yes	No

12. BOP's tested before drilling out.
13. BOP stack enclosed and heated.
14. Manifold outside substructure enclosed and heated.
15. Flange bolts in place & tightened
16. High pressure lines, valves, fittings used on BOP's.
17. Accessibility of control valve handles.
18. Control arms for manually closing ram type preventer outside substructure. N. A.
19. High pressure lines, valves, fittings on remote control unit.
20. Remote controls for BOP's greater than 75' from wellbore.

Yes	No
Yes	No
Yes	No
Yes	No
Yes	No
S	No
Yes	No
Yes	No
Yes	No

VI. BOP's

1. S.I. time on bag type preventer
2. S.I. time on rams
3. Pressure test on bag type preventer.
4. Pressure test on pipe rams.
5. Pressure test on blind rams.
6. Valves open to manifold.
7. Flare line tied down.
8. Accumulator hydraulic reservoir
9. Standby pressure source - is: Nitrogen
10. BOP drill witnessed
11. General crew knowledge of blowouts and kicks.

S	US
S	US
S	US
S	US
S	US
Yes	No
Yes	No
S	US
S	US
Yes	No
S	US

VII. ELECTRICAL

1. All light fixtures and wiring in good condition
2. Light plant adequate for job.
3. Standby light plant.

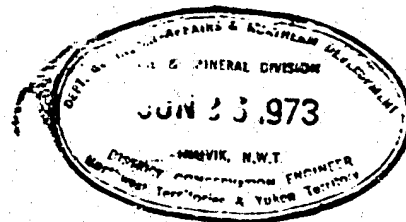
Yes	No
Yes	No
Yes	No

* Satisfactory
** Unsatisfactory

REMARKS RE- ITEMS CHECKED AS 'UNSATISFACTORY' OR 'NO':

1. Details of last casing string set should be recorded daily on the tour sheets.
2. An additional 20 lb. fire extinguisher is required in the Doghouse.
3. Flare lines from manifold house to flare pit must be weighted or tied down.

028-11-06-046



WELL HISTORY REPORT

on

UNION AMOCO MCPHERSON B-25

67 degrees 14' N

135 degrees 34' W

NORTHWEST TERRITORIES

CANADA



(Part 2 Winter 1972-73)

*Exploration Well Supervisor
Union Oil Co. of Canada*

W. P. Connolly

Submitted by

John K. Ontko
Professional Geologist

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SUMMARY OF SUB-SURFACE DATA

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- (b) MUD RECORD
- (c) DAILY PROGRESS REPORT
- (d) DEVIATION RECORD
- (e) DRILL STEM RESULTS
- (f) PLUGS
- (g) ABANDONMENT PLUGS

LITHOLOGIC LOG

GEOLOGIC ABSTRACT

Union Amoco McPherson B-25 was drilled on an indicated seismic anomaly to a depth of 13,570'. The oldest geologic formation penetrated was the Ronning of Silurian-Ordovician age.

During the first winter of operation (1971 - 72) the well was drilled to a depth of 9475'. Bottoming in an unidentified position in the Imperial shale. An intermediate string of 9-5/8" casing was run and cemented at 8786.31' K.B., it was impossible to get by 8320' where a "dog leg" occurred and shale sloughing was bad. Operations were suspended in April of 1972 and begun again in December, 1972.

The second season of operation began by drilling out the shoe of the intermediate string. Four plugs were run to retain the sloughing shale and allow drilling of a more vertical hole, also by-passing the old hole to 9475'. Much sloughing occurred and drilling was slow until the formation had healed and all cuttings were cleaned out of the hole.

The only porosity present was in the Ronning where two bottom hole tests were unsuccessful. There was no fluorescence, stain, or gas "kick" on the recorders in this section.

A large fish consisting of drill pipe and drill collars below 8930' was left in the hole. Two hook wall tests seated at the bottom of the 9-5/8" casing were run to test the entire bottom of the hole, but resulted in misruns.

The well was abandoned in a manner approved by the responsible government department.

SUMMARY OF PERTINENT WELL DATA

NAME OF WELL: Union Amoco McPherson B-25
LOCATION: Unit B, Section 25, Grid 67-30-135-30.
Latitude 67 deg.14'00.78"N.
Longitude 135 deg.34'22.37"W.
Located 30 miles by road southwest
of Ft. McPherson, N.W.T.
PERMITTEE: Amoco Canada Petroleum Co. Ltd.,
Union Oil Company of Canada Ltd.
PERMIT NO. 6239
OPERATOR: Union Oil Company of Canada Ltd.
335 - 8th Avenue, S.W., Calgary, Alta.
DRILLING CONTRACTOR: Peter Bawden Drilling Services Ltd.
Rig #2.
DRILLING AUTHORITY: No. 545 Issued October 29th, 1971.
CLASSIFICATION: New Field Wildcat
ELEVATION: 1590' Ground; 1615' K.B.
DATE SPUDDED: January 8th, 1972.
START DATE 2nd SEASON: December 8th, 1972.
TOTAL DEPTH: 13,570'
WELL STATUS: D & A
OPERATIONS ENDED: March 12th, 1973
HOLE SIZES:
26" 0 - 40'
17½" 40 - 1524'
12¼" 1524 - 9475'
8½" 8876 - TD
CASING: See detail Report 1.
Conductor pipe 20" set @ 40'
Surface casing 13-3/8" set @ 1524'
Intermediate casing 9-5/8" set @ 8786.31
NO. OF DST's: 4 (misruns)
NO. OF CORES:
LOGS: Schlumberger - GR-CNL-FDC-CALIPER
Dual Induction Laterolog
Sonic Log Caliper
Dipmeter
Sidewall cores
Century GEO - Customer Instrument
Service
TOOLPUSHER: G. Roseth, P. Paquette* (* temporary)
WELLSITE SUPERVISORS: Chas. Schneider (drilling)
John Ontko (geology)

SUMMARY OF PERTINENT DATA CONT'D.

MUD COMPANY: Baroid of Canada
MUD LOGGING COMPANY: Baroid of Canada
CEMENT & TESTING COMPANY: B. J. Service Division
HEADQUARTER SUPERVISION: J. Sullivan (engineering)
D. Connolly (geology)
DISTRIBUTION OF DATA: 2 sets vials, 1 set envelopes,
2 sets washed bagged, 2 sets unwashed
bagged, 1 set canned washed (30'interval)
- all to Union Oil Company
Schlumberger - all field prints &
original to Union Oil Company
Baroid Mud Loggers Report - all
copies to Union Oil Company
Well Reports - all to Union Oil Company
Lithology Log - all (original) to
Union Oil Company

SUMMARY OF SUB-SURFACE DATA

K.B. 1615*

<u>FORMATIONS</u>	<u>LOG DEPTH</u>	<u>ELEVATION</u>
Imperial	620	+ 995
<u>Middle Devonian</u>		
Canol	Missing	
Hume equivalent	9620	-8005
Prongs Creek	9965	-8350
Bear Rock	11370	-9755
<u>Silurian-Ordovician</u>		
Ronning	13090	-11475
TD	13570	11955

SAMPLE DESCRIPTIONS

- 8820 vps Shale - 40% dark grey, blocky with abundant cement plug. 60% contaminant. Poor sample
- Shale large fragments (caving.0
- 8830 vps Cement sand plug (85%) sandy - with large blocky, dark shale fragments (vugs.)
- 8850 vps Shale - 90% dark grey, blocky, large fragments with cement sand contaminants (10%).
- 8860 Shale - (80%) dark grey, blocky, slickensiding common on conchoidal fractures. 20% cement contamination. Occasional fragment of white calcite and clear quartz.
- 8870 Shale 90% - dark grey, blocky, with slickenside (10%) as above. Increase in white calcite and clear quartz (5%). Cement contamination 5%.
- 8880 vps Shale - 70% dark grey, blocky, cavings with cement contamination 30%.
- 8890 vps Shale - 50% dark grey, blocky, finer cuttings than above. Little to trace of slickenside. 50% cement contamination.
- 8900 Shale - 95% very dark grey to black, blocky micro-micaceous in part, slickenside common giving occasional chip an appearance of coal. Cement contamination 5%.
- 8910 Shale - 90% very dark grey as above, very fine cuttings. Cement contamination 10%.
- 8920 - 30 missing.
- 8940 Shale - 100% medium and dark grey, blocky, non-micro-micaceous. Occasional slickenside. Sand cement plug contaminant common.
- 8950 Shale - 90% very fine cuttings, predominantly dark grey 60% and medium grey, slightly micro-micaceous 40%, blocky, with cement contamination (10%) as above.

- 8960 Shale - 95%, slightly coarser cuttings than above, consisting of dark grey 60% and medium grey 40%, blocky shale, in part silty and slightly micro-micaceous.
- 8970 Shale - 90% as above, medium grey, silty, blocky shale 10%. Occasional white quartz fragment.
- 8930 Shale - 100% dark grey, fissile, slightly micro-micaceous.
- 8990 Shale - 100% dark grey, fissile, slightly micro-micaceous as above, 60% with medium grey, blocky in part silty shale 40%.
- 9000 vps Shale - cavings, large fragments of splintery and blocky shale. (Gilsonite - mud chemical-spots of fragments common.)
- 9010 Shale - 100% medium and dark grey, slightly micro-micaceous, blocky to partly fissile with minor amount of dull, black, blocky shale.
- 9020 Shale - as above with 5% medium grey, silty to sandy, blocky shale. Few fragments of pyrite.
- 9030 Shale - as above, with decrease in dark grey shale, also this type is less fissile.
- 9040 Shale - 95% dark grey, blocky to fissile in part with trace of grey, very argillaceous, very fine grained sandstone 5%.
- 9050 - 60 Shale - as above.
- 9070 Shale - as above 90%, grey, blocky, argillaceous siltstone to very fine grained sandstone 10%.
- 9090 - 9100 Shale - as above with grey, arenaceous shale approximately 20%.
- 9110 - 9190 Shale - 90 - 100% as above, predominantly dark grey in part medium grey, blocky to in part fissile. Slightly micro-micaceous in part. Silty shale 0 - 10%.
- 9200 Shale - 100% as above with occasional chip of dark grey, argillaceous, very fine grained sandstone with occasional floating, medium angular, clear quartz grain.

- 9210 Shale - 90% as above, with dark grey, argillaceous very fine grained sandstone to siltstone 10%.
- 9220 - 30 Shale - 90%, as above with occasional chip slickenside. Argillaceous siltstone 10%.
- 9240 - 50 Shale - 100% as above, with slickensided chips which often look like coal, comprising approximately 15% of sample.
- 9260 Shale - 100% as above, with approximately 10% medium, dull grey (slight galena-type lustre.)
- 9270 Shale - 100% as above, slightly darker grey, with considerable slickenside (25%). Numerous chips look like coal, however, will not burn (polished rubble fragments.)
- 9280 Shale - 100% as above, with decrease in amount of slickenside to less than 15%.
- 9290 Shale - 100% as above, noticeably darker grey in color. In part micro-micaceous.
- 9300 Shale - as above, in part slightly silty. Fracture zone.
- 9310 - 20 Shale - as above, slickensiding common with occasional chip that looks like coal (polished shale.)
- 9330 Shale - 85% as above with slickenside common. Clear, massive quartzite (fracture infill) is obvious 5%. Sandstone 10% dark grey, very argillaceous, very fine grained.
- 9340 - 50 Shale - 90% as above with black, blocky shale common. Decrease in slickensiding and quartz to trace. Sandstone 10% as above.
- 9360 Shale - as above. Slickensiding common.
- 9370 Shale - as above with occasional quartz fragment from fracture infill.
- 9380 Shale - quartz present as a trace, but more noticeable than above.
- 9390 Shale - 90% as above, with minor sandstone 10% as before.
- 9400 - 10 Shale - 95% as above, with trace of above sandstone.

- 9420 Shale - sandstone increase to 10+%. Minor amount of loose, very fine to fine grained, sub-angular, clear quartz sand (settlings out of mud tanks?)
- 9430 Shale - as above with loose friable sand mentioned above obvious.
- 9440 Shale - 90% and Sandstone 10%, dark grey, very argillaceous as above. No loose sand. Minor amount of slickensiding.
- 9450 - 60 Shale - as above - Shale and Sandstone - shale is occasionally slightly carbonaceous.
- 9470 Shale - 100% as above.
- 9480 Shale - 100% as above. Poor sample after trip.
- 9490 Shale - 100%, medium grey, micro-micaceous and dark grey; blocky to fissile in part. Occasional slickenside. Trace of white, opaque and clear quartz fracture infill.
- 9500 - 20 Shale - 100% as above.
- 9530 Shale - 95% as above, with minor amount of sandstone 5% - dark grey, very argillaceous and very fine grained, massive (blocky.)
- 9540 - 50 Shale - 90% as above, with slight increase in sandstone content to 10%. White, quartz obvious as a trace..
- 9560 Shale - 100% as above.
- 9570 Shale - with minor 10% sandstone as before.
- 9580 - 9610 Shale - 100% as above.
- 9620 Shale - 100% as above, with dark grey, dull fissile shale common. Trace of dark grey, hard siltstone (very fine grained sandstone). Odd pyrite fragment present.
- 9630 Limestone - poor sample - dark grey, fragmental, very crinoidal with dark grey shale infilling inter-granular space. 60% with light grey, chalky to fine grained to fragmental limestone common 40% (fossiliferous detrital section. Tight. Trace of pyrite. Shale contamination (cavings) approximately 50% of sample. Occasional chip of hard, dark grey, silicified shale (Canol type.

- 9640 Limestone - poor sample - as above, with a good portion becoming medium to coarse, granular, dark grey limestone with black shale infilling interstitial spaces (in part a fairly-well sorted grainstone.) Tight.
- 9650 Limestone - poor sample - as above, with minor amount of light grey, chalky limestone with large fragment inclusions of hard, dense, crypto-crystalline limestone. Trace of dark grey, hard, silicified shale (Canol type), more than in the above two samples.
- 9660 vps Limestone - predominantly shale cuttings (cavings?) minor amount of limestone - light grey, very finely crystalline, argillaceous, tight, with trace of light grey to light brown, dense, crypto-crystalline limestone. The dark grey, detrital, fossiliferous, crinoidal limestone of above not present.
- 9670 Shale - dark grey to black, fissile to blocky, with much pyrite occasionally disseminated through the shale. Minor amount of dark grey, hard, siltstone. Trace of clear quartz (fracture infil.)
- 9680 Shale - 70% dark grey, decrease in the above darker shale, with increase in hard, dark grey siltstone 10%, a noticeable amount of light brown, dense chert 5%, white, chalky, black speckled limestone 5%. Trace of white, quartz and pyrite (a pot pourri.)
- 9690 Shale - 50% dark grey, blocky as above (not the dark grey to black shale) with limestone 50% white to light grey, soft, chalky to very fine crystalline, argillaceous blotches, specks and then interbeds and occasional micro-fracture infill.

- 9700 - 10 Shale - 85% darker grey than above, blocky to fissile with minor amount of hard, dark grey siltstone, above limestone. Trace of pyrite as well as occasional white quartz fragments.
- 9720 Limestone - light grey to light brown, soft, chalky to very finely crystalline, slightly argillaceous. Above shale abundant. 70 - 30.
- 9730 Limestone - 90% as above with less shale.
- 9740 Limestone - white to light grey, soft, very fine granular to chalky, slightly argillaceous. Mottled and speckled (algal) appearance predominates.
- 9750 Limestone - as above with the light grey, granular limestone becoming more argillaceous and finer textured.
- 9760 Missing.
- 9770 Limestone - soft, light grey, crypto to very finely crystalline in part, with numerous dark grey shale fragments (medium grain sized) inclusions 80% - minor amount of white, chalky limestone 20%.
- 9780 Limestone - as above grading to a medium grey, soft, very calcareous, blocky shale 20%.
- 9790 - 9820 Limestone - 50% as above, Shale 40% as above and 10% light brown, dense, crypto-crystalline limestone.
- 9830 Limestone - 90%, soft, light grey, with dark grey shale grain inclusions (as above), granular, very argillaceous. Minor amount of white, chalky limestone 5%. Trace of dense, light brown, crypto-crystalline limestone and pyrite.
- 9840 - 50 As above. Occasional chip is fragmental. The overall section is a soft, white to light grey, argillaceous limestone interspersed with minute shale fragments, interbeds and fracture infill. Minor white, chalky limestone and light brown, dense, crypto-crystalline limestone is scattered throughout as lentils.

- 9700 - 10 Shale - 85% darker grey than above, blocky to fissile with minor amount of hard, dark grey siltstone, above limestone. Trace of pyrite as well as occasional white quartz fragments.
- 9720 Limestone - light grey to light brown, soft, chalky to very finely crystalline, slightly argillaceous. Above shale abundant. 70 - 30.
- 9730 Limestone - 90% as above with less shale.
- 9740 Limestone - white to light grey, soft, very fine granular to chalky, slightly argillaceous. Mottled and speckled (algal) appearance predominates.
- 9750 Limestone - as above with the light grey, granular limestone becoming more argillaceous and finer textured.
- 9760 Missing.
- 9770 Limestone - soft, light grey, crypto to very finely crystalline in part, with numerous dark grey shale fragments (medium grain sized) inclusions 80% - minor amount of white, chalky limestone 20%.
- 9780 Limestone - as above grading to a medium grey, soft, very calcareous, blocky shale 20%.
- 9790 - 9820 Limestone - 50% as above, Shale 40% as above and 10% light brown, dense, crypto-crystalline limestone.
- 9830 Limestone - 90%, soft, light grey, with dark grey shale grain inclusions (as above), granular, very argillaceous. Minor amount of white, chalky limestone 5%. Trace of dense, light brown, crypto-crystalline limestone and pyrite.
- 9840 - 50 As above. Occasional chip is fragmental. The overall section is a soft, white to light grey, argillaceous limestone interspersed with minute shale fragments, interbeds and fracture infill. Minor white, chalky limestone and light brown, dense, crypto-crystalline limestone is scattered throughout as lentils.

- 9860 As above. Occasional chip has a large limestone fragment suggesting a detrital appearance. Trace of pyrite.
- 9870 As above becoming predominantly medium grey in color, very argillaceous grading to a very calcareous, massive shale 80%.
- 9880 - 9900 Less argillaceous than above, same as before, with the partial fragmental character more obvious.
- 9910 Shale - 70% - medium grey, very calcareous, blocky with light grey, pelletoidal, fragmental, argillaceous limestone of above 30%.
- 9920 As above.
- 9930 - 10000 Limestone - as above, (very argillaceous, with shale fragments, interbeds etc.) Occasional chip of light brown, crypto to finely granular limestone. Trace of pyrite.
- 10010 - 40 Limestone - as above with minor amount of dark brown, argillaceous, crypto-crystalline limestone 10+%.
- 10050 Limestone - as above with increase in hard, dark brown, argillaceous, crypto-crystalline limestone - 15%. Trace of pyrite (solitary lumps.)
- 10060 - 10120 very poor sample - lost circulation material put in system as instructed by Calgary, in expectation of a lost circulation zone. Unable to use shale shaker, so all recoveries go to tank and portions are recirculated. The sample appears as above, predominantly a light grey, soft, granular, black speckled (shale grains), argillaceous limestone with minor amount of dark brown, argillaceous, crypto-crystalline limestone. The occasional chip of light grey-brown, "earthy" limestone continues to be present.
- 10130 - 190 very poor sample - sample approximately 80% shale cavings. Increase in dark brown, argillaceous, crypto-crystalline limestone portion. The occasional light grey, soft, speckled, pelletoidal limestone continues to exhibit some fragment character.

- 10200 - 30 Limestone - grey, medium brown to dark brown, dense, crypto-crystalline 40%, intermixed with abundant light grey, argillaceous, lithographic and white, chalky limestone 40% - remainder - 20% is the soft, light grey, chalky to finely granular, speckled (shale fragments), argillaceous limestone of above. Occasional chip of the crystalline and speckled limestone becomes fine crystalline and fine grained respectively. Shale contamination from above is abundant. The lime section continues to be a micrite.
- 10240 Limestone - as above with increase to approximately 50% of the chalky to fine granular, light grey, speckled, argillaceous limestone. The brown, crypto-crystalline is 25%, and the grey, lithographic, white, chalky is also 25%. (Note - the light to dark brown fragments are from the lost circulation material put in the mud system.)
- 10250 Limestone - as above, the brown, crypto-crystalline, and the grey, lithographic to white, chalky 40% each. The speckled, light grey, granular is approximately 20%.
- 10260 - 70 Limestone - as above with occasional clear, calcite crystal and a calcite infilled solitary, pin-point vugs present.
- 10280 Limestone - decrease in the lithographic and chalky limestone to approximately 20% with an increase in the soft, grey, argillaceous, fine granular, slightly speckled limestone 40%; brown crypto-crystalline limestone 40%.
- 10290 Limestone - the grey, argillaceous limestone is becoming more obviously granular, pelletoidal in character, with fair sorting and the fine to medium size grains are sub-angular to angular. There is less speckled appearance. The crypto-crystalline limestone (25%) is generally becoming lighter brown in color.

- 10300 Limestone - as above. Two green shale chips noticed.
- 10310 - 20 50 - 50 - very fine to fine granular (pelletoidal) grey, argillaceous limestone (shale material present as matrix fill and as fragment inclusions) and brown to dark brown, crypto-crystalline limestone with abundant grey, lithographic and white, chalky limestone.
- 10330 - 40 Increase in dark brown to very dark brown, argillaceous, dense, crypto to slightly micro-crystalline limestone 70%. The light grey, "earthy appearing" lithographic to chalky limestone is common 20%. The speckled, granular type is minor 10%.
- 10350 Increase in the speckled, granular, argillaceous limestone to 60%. The very dark brown, crypto-crystalline limestone is only in trace amounts, however, the dense, medium to dark brown, crypto-crystalline limestone is approximately 30%; the light grey, lithographic and chalky types comprise 10%.
- 10360 As above with the hard, dense, crypto-crystalline type becoming a trace. The white, chalky, which in part is finely crystalline and fragmental, limestone has increased to approximately 40%.
- 10370 As above with the grey, speckled limestone becoming less granular and more argillaceous, END OF "SPECKLE" LIMESTONE TYPE.
- 10380 Missing.
- 10390 Shale - medium grey, very calcareous, blocky with minor amount 30% of above limestone types.
- 10400 - 40 Shale - grading to a grey, very argillaceous limestone with minor amount of brown, crypto-crystalline and white, chalky limestone.
- 10450 - 80 Shale - predominantly light grey, slightly argillaceous, crypto to earthy limestone as above with minor amount (20%) of brown to dark

- 10450 - 80
cont'd. brown, crypto to micro-crystalline, slightly argillaceous limestone. Light grey, earthy to chalky limestone in part very finely crystalline is common (10%). Occasional limestone fragment and crinoidal column inclusion are present.
- 10490 - 530 As above with slight increase in amount of dark brown, slightly argillaceous, crypto to micro-crystalline limestone (30%). Occasional limestone and crinoidal fragment inclusions are present.
- 10540 - 60 As above, becoming abundantly (40%) dark brown, argillaceous, crypto to micro crystalline limestone. Occasional fossil fragment.
- 10570 - with fossil fragments, predominantly crinoids common.
- 10600 - 40 As above with fossil fragments occasionally present as trace.
- 10650 - 830 As above becoming predominantly (70%) dark to very dark brown, argillaceous, crypto to micro crystalline limestone, slightly dolomitic in part. Remainder continues to be grey, earthy, massive, slightly argillaceous limestone as above. Occasional fossil fragments.
- 10840 - 50 As above with few thin calcite infilled fractures (very minor.)
- 10860 - 70 The dark brown, dense, argillaceous, crypto to micro-crystalline limestone grades occasionally to a fine crystalline limestone (trace amount.)
- 10880 - 910 The light grey, earthy appearing, slightly argillaceous limestone predominates 60+%, the hard, dense, crypto-crystalline limestone has become less argillaceous and less dark brown (a light brown to medium grey brown.)
- 10920 - 30 As above with the minor, dense, crypto-crystalline portion grading to dark brown once more.
- 10940 Increase in dense, dark brown, crypto limestone to approximately 50%.

- 10950 - 90 Further increase of the dense, dark brown, argillaceous, crypto-crystalline limestone to approximately 60+%. Occasional thin calcite infilled fracture, and fossil fragment. The texture of limestone changes to micro-crystalline and very fine crystalline in a trace amount.
- 11000 Limestone - light grey to grey-brown, soft, slightly argillaceous, earthy, lithographic to micro-crystalline with minor amount of dark brown, crypto-crystalline limestone. Occasional fossil fragments present. There is a noticeable amount of white, chalky limestone and light grey to white, massive calcite 10%.
- 11010 - 20 As above with white, calcite common 10% (a fractured zone, but not a fault zone; contact of calcite with host rock usually sharp with no apparent displacement.)
- 11030 As above with decrease in calcite to trace amount.
- 11040 Limestone - as above. Occasionally trace of of micro fracture infilled with powdery, black material (shale.)
- 11050 - 90 As above, the dark brown, dense limestone remains minor (approximately 25%.)
- 11100 - 20 Limestone - color change from above and much less argillaceous. Rock type predominantly light grey to buff, soft, chalky (60%) grading to light brown, dense, crypto-crystalline limestone.
- 11130 As above, decrease in chalky limestone to 50%. Occasional suggestion of solitary vugs which are crystalline lined. No effective porosity.
- 11140 - 60 - becoming predominantly light brown, crypto-crystalline limestone 70+%. Few dark brown, argillaceous, micro-crystalline chips. Occasional stylolite fracture.
- 11170 - 220 As above with dark brown, argillaceous, micro-crystalline limestone common 15%.

- 11230 Limestone - decrease in the light brown type to less than 40%. The dark brown, micro-crystalline, argillaceous limestone approximately 30%, the white, chalky limestone in part mottled grey with argillaceous material is less than 10%. A light grey, soft, blocky, massive, very calcareous, slightly fossiliferous shale (very argillaceous limestone) is new in the sample and is approximately 20%.
- 11240 - 60 As above with decrease in dark brown, micro-crystalline, argillaceous limestone to less than 20% and increase in the predominant light brown, crypto-crystalline and the minor chalky, argillaceous, blebbed limestone - the grey, very calcareous, fossiliferous shale (very argillaceous limestone) remains common 20%.
- 11270 As above, decrease in shale to less than 10%.
- 11280 - 310 Increase in white, chalky limestone. Rock is predominantly mixed light brown, dense, crypto-crystalline and soft, white, chalky limestone. Trace to minor amount of dark brown, argillaceous limestone, and soft, light grey, very calcareous shale as above. Occasional chip has well formed clear calcite crystals (fine size) coating one edge suggesting few isolated solitary vugs (small.)
- 11320 - 80 As above with trace of light greenish-grey marlstone and occasional pyrite grain.
- 11390 - 400 As above with occasional trace of grey, micro-crystalline dolomite.
- 11410 - 400 As above light brown to grey-brown, crypto-crystalline limestone with abundant white, chalky limestone. Occasional small black, argillaceous blotches.
- 11470 As above with trace of pale green and dark grey waxy, pyrite disseminated shale.
- 11480 Limestone - as above with trace of light grey, dolomitic shale.

- 11490 As above with slight increase in the grey, dolomitic shale to very minor in amount. Less than 10%.
- 11500 - 10 Trace (a few chips) of grey, pelletoidal limestone with portion of the matrix, black, argillaceous cemented material, giving a partial mottled (granular) appearance.
- 11520 Limestone - as above, predominantly light grey-brown, crypto-crystalline with varying common amounts of white, chalky limestone.
- 11530 With dark material (bitumen) infilling minute fracture and as blotches (as above) obvious in numerous chips.
- 11540 As above, decrease in the black flecks to a trace.
- 11550 - 630 Limestone - as before with occasional trace of grey, crypto to micro-crystalline dolomite.
- 11640 - 50 As above with minor grey, micro-crystalline dolomite.
- 11660 - 80 Limestone - as above with minor amount of light grey, soft, slightly argillaceous, lithographic limestone.
- 11690 - 720 As above with trace of grey, crypto to micro-crystalline dolomite.
- 11730 - 60 As above with slight increase in amount of dolomite.
- 11770 With minor amount of dark brown, micro-crystalline, argillaceous limestone.
- 11780 Increase in dark brown, micro-crystalline, argillaceous limestone to common(15%).
- 11790 Decrease in the above dark brown limestone to minor (less than 10%). Trace of grey, micro-crystalline dolomite.
- 11800 - 30 As above, predominantly light brown, crypto-crystalline limestone with considerable light grey, slightly argillaceous, earthy to lithographic, soft limestone. The dark brown, micro-

- 11800 - 30
cont'd. crystalline limestone approximately 10%. Trace to minor amount of grey, crypto to micro-crystalline dolomite.
- 11840 - becoming predominantly light grey, massive, micro-crystalline dolomite.
- 11850 Predominantly limestone as 11830 with minor amount of dolomite - grey, argillaceous, crypto-crystalline limy.
- 11860 Limestone - noticeable color change to light grey, soft, micro to crypto to lithographic to chalky. Trace of medium grey, crypto to micro-crystalline dolomite as above.
- 11870 Limestone - becoming less chalky, increase in dolomite to minor. Limestone appears at times dolomitic.
- 11880 - 90 Limestone - predominantly a light grey to grey in part light brown, crypto to micro-crystalline, slightly argillaceous limestone, slightly dolomitic. Minor light grey, white, lithographic and chalky limestone respectively. Trace of dolomite.
- 11900 As above with increase in grey, crypto to micro-crystalline dolomite to common 10%.
- 11910 - 30 Predominantly grey dolomite of above.
- 11940 - 70 Decrease in dolomite to minor amount 10%, predominantly the light brown to grey, micro to lithographic to chalky limestone of above.
- 11980 - with abundant dolomite.
- 11990 Predominantly light to medium grey dolomite 60% as above with limestone as above 40%.
- 12000 - as above.
- 12010 Dolomite - light to medium grey, crypto to micro-crystalline, with minor lighter grey, earthy to micro-crystalline, relatively soft limestone.
- 12020 - 50 Dolomite - as above with decrease in limestone to less than 10%. Occasional chip of light grey, soft, very finely crystalline, silty dolomite present.

- 12060 As above. One chip of silty dolomite is stained. Very few chips (trace) of silty dolomite as above remains present.
- 12070 Dolomite - 60% - light grey, micro-crystalline with abundant light brown, dolomitic, crypto to micro-crystalline limestone 20% and soft, very light grey, chalky limestone 20%.
- 12080 As above with decrease in dolomite to less than 50%. The light brown limestone is only slightly dolomitic and has become more abundant 40%. The chalky limestone is approximately 10%.
- 12090 Limestone - as above, the light brown, slightly dolomitic limestone predominant 60%. The grey, dolomite 20%, and the light grey, soft limestone (chalky) 20%.
- 12100 As above, with the light brown, slightly dolomitic limestone 70% - the dolomite 10% and the chalky limestone 20%.
- 12110 - 20 As above. Trace of pyrite fragment inclusions.
- 12130 Increase in dolomite to approximately 50%, light brown dolomitic limestone approximately 35%, and white, chalky 15+%.
- 12140 Predominantly light brown limestone 60 - 30 - 10.
- 12150 Limestone - light grey, slightly dolomitic, very finely crystalline. Tight. Minor amount of grey, crypto-crystalline dolomite, white, chalky and light brown, micro-crystalline limestone (types as above) present.
- 12160 - 80 Dolomite - as above, crypto to very finely crystalline (80%), with light grey to white, chalky to lithographic 10%, light brown, crystalline, dolomitic limestone 10%.
- 12190 - 200 As above. Occasional chip of light grey, finely crystalline "sucrosic appearing" limestone.
- 12210 Predominantly dolomite as above with occasional pyrite inclusions. Chalky limestone remains minor in amount.

- 12220 As above with minor (10%) amount of light brown, crypto to micro-crystalline, dolomitic limestone and white, chalky limestone 10%.
- 12230 - 50 Increase in light brown, dolomitic, crystalline limestone and white, chalky limestone to approximately 20% each.
- 12260 As above with a couple of green, waxy shale chips.
- 12270 As above, increase in limestone to predominant approximately 60%. Both types, the light brown, crypto-crystalline and white, chalky are more abundant.
- 12280 - 350 Limestone - predominantly light brown, crypto to micro-crystalline, slightly dolomitic, with varying abundant amount of white, chalky limestone. Grey dolomite absent to minor (less than 10%.)
- 12360 Dolomite - grey, micro to very finely crystalline, dense with minor amounts of chalky and crypto-crystalline limestone of above (approximately 20% total.)
- 12370 As above, decrease in amount of limestone.
- 12380 Dolomite - lighter grey than above, micro to fine crystalline. One or two chips contain solitary, pin-point vug.
- 12390 As above with trace of pin-point vugs. No stain.
- 12400 As above. No vugs apparent.
- 12410 - 20 Becoming medium grey in color and finer textured, predominantly micro-crystalline and partly limy. Minor chalky limestone.
- 12430 - 60 As above grading to finely crystalline in part. Occasional chip of white, and translucent calcite, and very finely crystalline, slightly silty dolomite.
- 12470 - 80 Limestone - light grey to light brownish-grey, slightly dolomitic, crypto to micro-crystalline, in part finely crystalline (50%) with abundant

- 12470 - 80
cont'd. light grey to white, chalky to lithographic to very fine crystalline limestone 20% - dolomite 30% - grey, hard, micro to very finely crystalline.
- 12490 - 530 As above with increase in chalky to 30% and decrease in dolomite to less than 20%.
- 12540 - 70 Limestone - as above with decrease in dolomite to less than 10%. Light brown to light grey brown, slightly dolomitic limestone 50% - white, chalky to lithographic limestone 40%.
- 12580 As above, slight increase in grey, micro to finely crystalline dolomite to approximately 15%.
- 12590 Decrease in white, chalky to 30%, light grey brown limestone increases to 50%.
- 12600 Becoming grey, hard, micro-crystalline dolomite. Occasional chip has bitumen infilling interstitial spaces.
- 12610 - 70 Dolomite - light grey, hard, dense, micro to finely crystalline, tight.
- 12680 Limestone - becoming limestone, light brownish grey, crypto to micro-crystalline, dense, with abundant light grey, soft, chalky to earthy limestone. Dolomite of above is abundant (35%).
- 12690 - 700 Limestone - as above, light brown grey, crypto to micro-crystalline, dense, slightly dolomitic with abundant chalky limestone.
- 12710 Limestone - grading to light grey, micro to very finely crystalline, hard, dolomite 30%.
- 12720 Further increase in above dolomite to 60%.
- 12730 - 40 Dolomite - as above.
- 12750 - 60 Limestone - becoming predominantly light brownish grey, crypto to micro-crystalline, slightly dolomitic limestone and white, chalky limestone 60 - 30 - 10.
- 12770 - Limestone - as above with minor amount of light grey, slightly argillaceous, earthy limestone. Few chips of greenish grey, waxy shale. The dense, crypto-crystalline limestone often has fine crystalline calcite on edge suggests filled vugs.

- 12780 - 800 Limestone - as above. Predominantly light grey brown, crypto-crystalline 70 - 20 - 10 (dolomite.) Occasional trace of pyrite is often present as previously.
- 12810 - 20 Limestone - as above with very minor amount of dark grey, very finely crystalline dolomite. Trace of light grey, slightly silty, very fine crystalline dolomite. 70 - 15 - 15.
- 12830 - 900 Limestone - as above with slight increase in dolomite to approximately 10%.
- 12910 Increase in light grey, micro to fine crystalline dolomite to approximately 30% of sample.
- 12920 Dolomite - as above with minor 15% light grey, soft, lithographic limestone.
- 12930 As above with trace of dolomite grading to fine to medium crystalline (tight) with occasional bitumen infilling inter-crystalline space. Minor amount of dark grey, (black), very fine crystalline dolomite. Limestone is approximately 10% consisting of light grey brown, crypto-crystalline and light grey, soft lithographic. NOTICEABLE COLOR CHANGE.
- 12940 Limestone - white, soft, chalky to medium crystalline in part. Poorly sorted, tight. Above dolomite common 30%. Trace white, opaque calcite.
- 12950 Limestone - as above, predominantly chalky to very finely crystalline. Decrease in dolomite to minor (10%).
- 12960 - 13020 As above, in part grading to medium crystalline, poorly sorted, re-crystallized limestone with minor light grey brown, crypto-crystalline limestone (10%). Dolomite of above approximately 5% (cavings.) Occasional chip of greenish grey, waxy shale.

- 13030 - 40 As above, less white, chalky limestone with increase in light grey, crypto to fine crystalline dolomite to approximately 25%. Tight.
- 13050 As above, the chalky limestone is predominantly light grey. Dolomite has decreased to less than 10%.
- 13060 Limestone - grey, earthy appearing, lithographic to crypto-crystalline with abundant light grey, chalky limestone. Minor light brownish grey, dense, crypto-crystalline, slightly dolomitic limestone.
- 13070 - 80 As above with occasional chip light grey, fine crystalline limestone.
- 13090 Dolomite - light grey, micro to finely crystalline, well packed, dense with trace of dolomitic clusters indicating good porosity (very few of these clusters.) White, chalky to light grey, fine crystalline and light grey brown, dense, crypto-crystalline limestone abundant - approximately 40%.
- 13100 As above. Dolomite has trace of spotty porosity as above (dolomite rhomb clusters suggesting vug lining.) White, chalky limestone common. (Note one well-preserved vi-valved fossil with brain-type crenulation in sample vial of set #1.)
- 13110 - 20 As above with trace of patchy good porosity. Limestone remains present in common amount as above 20%.
- 13130 - 50 As above with dolomite exhibiting crystallinity (fine size) much better than above. Porosity remains spotty and a trace amount as above. White, chalky to finely crystalline limestone becoming minor (approximately 10%).
- 13160 - 70 Dolomite - light grey, fine to medium crystalline with considerable fair to good inter-crystalline and vugular porosity. No stain or fluorescence as above. Occasional coarse, clear, quartz crystal present.

- 13175 As above, becoming in part medium grey, finely crystalline dolomite with scattered, patchy, good vug and inter-crystalline porosity.
- 13180 - 270 Dolomite - light grey, dense to medium crystalline with occasional coarse dolomite rhomb. Porosity good to fair, inter-crystalline and vuggy is common, but not continuous throughout. Occasional coarse angular, clear, quartz grain present.
- 13280 - 300 As above with decrease in amount of porosity.
- 13310 - 40 As above with light grey, translucent and clear, coarse, angular quartz grains are more obvious (approximately 5%.)
- 13350 - 430 As above. Porosity grades from poor to good. Quartz becoming minor in amount (approximately 10%) present as whitish, opaque, light grey, translucent and clear, transparent. Occasionally the quartz is in crystal (hexagonal) form.
- 13440 - 570 As above. Decrease in quartz to less than 5%. Porosity and crystallinity continue as above in varying amount and quality. Quartz is predominantly the clear type.

TOTAL DEPTH - 13570 - driller.

ENGINEERING

BIT RECORD

<u>BIT NO.</u>	<u>SIZE</u>	<u>TYPE</u>	<u>JET SIZE</u>	<u>SERIAL</u>	<u>DEPTH OUT</u>	<u>TOTAL FEET</u>	<u>TOTAL HOURS</u>	<u>REMARKS</u>
					8786			
78	8½	X1G	3/18	FA 384	9000	214	34	2-1-1
79	8½	S44	3/18	287267			38	
80	8½	X3A	3/18	AL 416				Clean to bottom & drill cement.
81	8½	M44N	3/18	337041	8818			Drill cement - 5½ hrs.
82	8½	D1	diamond	EC47203	8917	99	36	Dyna-Drill
83	8½	M44n	3/18	352799	8918	1		Clean to bottom
84	8½	M44N	3/18	333325	8921	3		
85	8½	XV	3/18	BK 946				
81 RR	8½	M44N	3/18	337041				
86	8½	XD7	2/20, 1/18	XW 571	8936	12	11-3/4	3-1-1
87	8½	DMJ	3/18	3717	8951	15	7-3/4	7-1-1
88	8½	SVH	3/16	GR 245	8953	2		Clean to bottom
89	8½	SS1G	3/16	677002	9006	53	23¼	4-3-1
90	8½	X1G	2/18, 1/16	FA 390	9066	60	15½	5-3-1
91	8½	DSJ	2/18, 1/16	912226	9116	50	15½	5-3-1
92	8½	ST1AG	2/18, 1/16	196311	9178	62	20-3/4	2-2-1
93	8½	S44	2/16, 1/16	305540	9239	61	15½	1-1-1
94	8½	ST1AG	3/16	195180	9255	16	6-3/4	1-1-1
95	8½	DMJ	2/18, 1/16	340359	9298	43	22½	5-4-1
96	8½	DMJ	1/18, 2/16	340269	9352	54	25½	

BIT RECORD CONT'D.

<u>BIT NO.</u>	<u>SIZE</u>	<u>TYPE</u>	<u>JET SIZE</u>	<u>SERIAL</u>	<u>DEPTH OUT</u>	<u>TOTAL FEET</u>	<u>TOTAL HOURS</u>	<u>REMARKS</u>
97	8½	DMJ	1/18,2/16	340362	9396	44	20	5-4-1
98	8½	XDV	1/18,2/16	LK 314	9480	84	29¼	4-2-1
99	8½	SUH	3/16	GR 288	9577	97	25	8-5-1
100	8½	ST1AG	3/16	396710	9664	87	20¼	7-5-1
101	8½	SS1G	3/16	778724	9764	100	24	6-5-1
102	8½	SVH	2/16,1/15	3258	9930	166	22	6-3-1
103	8½	M44N	3/16	282245	10121	191	21½	6-2-1
104	8½	M44N	3/16	430408	10293	172	19	8-8-1
105	8½	XD7	3/16	SC 110	10495	202	22	6-2-1
106	8½	4JS	3/15	HC 178	10707	212	20-3/4	8-3-1
107	8½	5JS	3/15	GA 061	11177	470	55	1-3-1
108	8½	5JS	3/15	FB 977	11744	567	60¼	1-3-1
109	8½	5JS	2/15,1/14	FN 863	12077	333	39	8-6-1
110	8½	M88	3/15	3319	12474	397	40½	2-2-1
111	8½	SCH5J	3/15	885120	13081	607	59-3/4	7-8-1
112	8½	5JS	1/15,2/14	SD 702	13175	94	8½	1-1-1
113	8½	SHG-J	3/15	75341	13200	25	2	2-2-1
114	8½	M88	3/15		13570	370	28	7-2-1

DAILY MUD RECORD

<u>DATE</u>	<u>DEPTH</u>	<u>WT./ GAL.</u>	<u>VIS. SECS.</u>	<u>W.L.</u>	<u>PH</u>	<u>GEL</u>	<u>BENEX</u>	<u>BAROID</u>	<u>SODA ASH</u>	<u>WL-100</u>	<u>GILSONITE</u>	<u>HME</u>	<u>BICARB</u>	<u>KWIK SEAL</u>
Dec. 4/72														
- 7	Displaced hole.					120	24							
8	8893	8.7	51	8.4	9.0	117	24						6	
9	8950	8.8	55	7.4	9.0	116	23							
10	8940	9.1	65	8.0	9.0	30	9	100						
11	9000	11.0	110	7.6	9.0	13	34	1184						
12	9000	11.0	135	7.0	8.5									
13	9000	10.9	230	9.0	8.5		5			2				
14	9000	10.5	67	11.2	8.5		8	63						
15	8827	10.2	46	9.4	8.5	35	7						4	
16	8900	10.3	45	9.0	8.0				2				4	
17	8750	10.2	43	9.0	8.0								2	
18	8634	10.3	46	8.5	8.0	20	4		1				13	
19	8400	9.6	39	8.0	10.5	138	27		4				4	
20	Trip	9.6	43	8.8	11.0	12	3						3	
21	8800	9.5	43	9.6	11.0	43	8						5	
22	8800	9.4	42	8.4	11.0								18	
23	8800	9.5	41	22	11.5	57	20	500	2				6	
24	8915	9.6	44	18.4	12.0	7	3		1				6	
25	8840	9.5	45	19.2	12.5		3	122	1				3	
26	8855	9.6	42	23.0	12.5	28	12	402					7	
27	8889	10.4	40	33.6	12.0	44	17	400					17	
28	8917	10.5	43	17	11.0	33	9	90		2			12	
29	8917	10.7	51	13.2	12	9	19	795					2	

DAILY MUD RECORD CONT'D.

<u>DATE</u>	<u>DEPTH</u>	<u>WT./ GAL.</u>	<u>VIS. SECS.</u>	<u>W.L.</u>	<u>PH</u>	<u>GEL</u>	<u>BENEX</u>	<u>BAROID</u>	<u>SODA ASH</u>	<u>WL-100</u>	<u>GILSONITE</u>	<u>HME</u>	<u>BICARB</u>	<u>KWIK SEAL</u>
Dec. 30/72	8917	12.0	Fishing for	bit		16	7	170						
31	8910	11.5	64	13	12	14	5	78		4	160	11		
Jan. 1/73	8917	11.0	63	12.0	12.5			8						
2	8920	11.2	75	11.2	12.5	21	14	125		3	19			
3														
4								10						
5	8650	11.0	61	11.2	12.0									
6	8947	11.1	75	9.8	12.0	16	3	10				2		
7	8953	11.1	71	10.4	12.0		4	115						
8														
9	8930	11.1	69	11.0	12.0	4	6	180						
10	8957	11.1	67	9.4	12.0	39	8				10			5
11	8997	11.1	66	7.0	11.5	27	7	55			3			4
12	9037	11.2	67	7.2	11.0	50	10	90			3			5
13	9100	11.3	65	8.0	10.5	20	12	248			9	1		5
14	9119	11.2	66	7.6	10.5	25	5				13	1		1
15	9182	11.1	66	8.8	10.5	17	6	85				1		3
16	9227	11.1	60	8.2	10.5	15	6	90			9			2
17	9355	11.2	67	7.0	10.5	15	6	90			3			1
18	9287	11.2	65	6.8	10.5	18	5	90			9	5		1
19	9310	11.2	60	7.4	10.5		3	90			1			
20	9352	11.1	65	7.6	10.5	22	5				8	5		
21	9371	11.2	65	7.0	10.5	18	7	180			6	5		
22	9396	11.2	70	6.8	10.5	16	6				7			
23	9437	11.2	78	6.0	10.5	30	8	90			8			

DAILY MUD RECORD CONT'D.

<u>DATE</u>	<u>DEPTH</u>	<u>WT./ GAL.</u>	<u>VIS. SECS.</u>	<u>W.L.</u>	<u>PH</u>	<u>GEL</u>	<u>BENEX</u>	<u>BAROID</u>	<u>SODA ASH</u>	<u>WL-100</u>	<u>GILSONITE</u>	<u>HME</u>	<u>BICARB</u>	<u>KWIK SEAL</u>
Jan. 24/73	9430	11.1	68	6.2	10.5			60			7	4		
25	9510	11.2	74	8.6	10.5	15	10	83			5			
26	9577	11.3	64	7.0	10.0	12		170			7	5		
27	9618	11.4	76	6.6	10	20	9	110		1	3			
28	9664	11.3	75	6.2	10		4	210			1			
29	9741	11.3	200+	6.8	10.5		4	60	13	2	10	5		
30	9839	11.2	78	6.8	10.5	26	10	65			6			
31	9930	11.2	90	6.6	10.5		8	120			4			
Feb. 1/73	10068	11.2	105	6.6	10		14				3			
2	10196	11.2	120	6.6	10		10	54			6			
3	10293	11.2	105	6.9	9.5		26	60			5			32 (fine)
4	10475	10.8	95	6.6	9.5		6	165						
5	10627	10.9	95	8.0	9.5		14	131		3	2			
6	10752	11.0	100	7.2	10		10	120			2			
7	10957	11.0	80	6.8	9.5	64	48	31	2					
8	11138	11.0	92	7.2	9.5	25	24	18	1					
9	11233	10.9	92	6.8	9.5		2	40	1					
10	11445	11.0	100	7.4	9.5	10	8	21	2		9	10		
11	11664	11.0	93	7.6	9.5		13	145	2		7	5		
12	11795	11.0	90	7.6	9.5	15	17	115			5			

DAILY MUD RECORD CONT'D.

<u>DATE</u>	<u>DEPTH</u>	<u>WT./ GAL.</u>	<u>VIS. SECS.</u>	<u>W.L.</u>	<u>PH</u>	<u>GEL</u>	<u>BENEX</u>	<u>BAROID</u>	<u>SODA ASH</u>	<u>WL-100</u>	<u>GILSONITE</u>	<u>HME</u>	<u>BICARB</u>	<u>KWIK SEAL</u>
Feb.13/73	12000	11.0	90	7.6	10.0	36	21	185	3		4			
14	12106	10.9	78	8.8	9.5	11	4	10			2			
15	12344	11.0	95	8.5	9.5	20	18	165	1		6	20		
16	12474	11.0	240	8.2	9.0			10	3	2	2			
17	12676	11.0	97	7.6	9.0	40	24	180	1		4			
18	12914	11.0	94	7.2	9.5	22	14	90	2		3			
19	12937	11.0	80	8.4	9.5	10	8	100	2	3	2	5		
20	13175	11.0	97	7.2	9.5	10	4	10	1	1	1			
21		11.0	110	8.0	9.5									
22	13200	11.0	90	6.0	9.5									
23	13338	11.0	86	6.8	9.5	18	8		2		1			
24	13570	11.0	90	6.5	9.5			10	1		1			
25-27	Logging and fishing.													
28	13570	11	120	6	9.5		No record.							
Mar. 1	13570	11	87	5.8	10	26	19	230			6	5		
5	13570	11	83	6.4	10		No record							
TOTALS						712	474	4191	37	12	221	79	27	32

DAILY PROGRESS REPORT

8:00 AM - 7:59 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON BOTTOM</u>	<u>BIT NO.</u>	<u>8:00AM WEATHER</u>	<u>REMARKS</u>
Dec. 6/72	9475				+3	Pick up d.p. & ran in hole. Displace mud out of 9-5/8" csg. every 1000'. Csg. shoe @ 8786'.
7	8786				0	Run in d.p., work on electrical system
8	8821				+15 sno	Clean out under shoe, press. BOP's. Lay down d.p.
9	8946		22 1/2		+22	Clean out 12 1/2" hole below shoe.
10	9000		11 1/2		+10 cldy	Cleaning out. Measured out + 2000'.
11	8970		23 1/2		+24 cldy	Cleaning out. Hole remains tight. Ream often.
12	8995		13-3/4		+16 wdy	Cleaning out.
13	8995		1 1/2		+8 wdy	Cleaning out. Waiting to run plug.
14	8995				+12 wdy	Plug #1 - 100 sax + 100# R5, 145 sax + 160# D31, 145 sax + 27 sax sand. Displaced with 151 bbls. water. Plug down 6:45 PM, Dec.13/72.
15	8827				-10 wdy	Felt plug @ 8827'.
16	8949				-22 clr	Sat 14000# on plug. Pumped of to 8897. Rotated. Plug would not hold. Went to 8949' Measure out.
17	8949				-34 clr	Prepare to run Plug #2 @ 8945'
18	8949				-26 clr	Plug #2 - 100 sax cement w/32# R5, 300 sax cement w/64# sand & 240# D31. Displaced w/5 bbls. water & 140 bbls. mud. Plug in place @9:00 AM, Dec.18/72.
19	8951				-22 clr	Felt plug @ 8671'. Pumped same to 8951' Prepare to run Plug #3.
20					-15 clr	Plug #3 - 400 sax cement + 20% sand + 100# D31, River water. Slurry 15.9# to 17.5#. Plug down 9:45 AM, Dec.19/72.

DAILY PROGRESS REPORT CONT'D.

8:00 AM - 7:59 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON BOTTOM</u>	<u>BIT NO.</u>	<u>8:00AM WEATHER</u>	<u>REMARKS</u>
Dec.21/72	8886				-15 clr	Clean Plug #3. Ran Plug #4 from 8886 up in csg. 250 sax neat cement + 250 sax Oilwell, + 20% sand, + 300# D31, River water. Plug down @ 7:00 AM, Dec.21/72
22					-10	W.O.C.
23	8395		5-3/4		-20 clr	Top of Plug 8395'. Clean out to 8750'.
24	8815				-22 clr	Prepare to run dyna-drill.
25	8818		3		-22 cldy	Reamed 8786'- 8818'. Torque & drag decreased. Some shale continues to come over.
26	8855		12-3/4		-15 sno	Hole hazardous, keep reaming up & down with dyna-drill. 10'-15' of fill on bottom each time kelly picked up. Considerable large shale.
27	8890		10 1/4		-10 cldy	Hole condition hazardous.
28	8917		13		+20 clr	Hole poor, unable to make connection for sloughing.
29	8870		15		-12 clr	Hole sloughed, cleaning out @ 8870'.
30					-20 sno	Lost bit sub & bit in hole.
31	8910		10 1/4		-6 sno	Clean out to recover fish. Not @ 8910'.
Jan. 1/72	8918		15		-26 clr	Clean out to 8918', no fish. Trip - 5' of fill.
2	8923		14-3/4		+2 clr	Top of fish @ 8923'.
3	8923				+18	Circulating top of fish.
4	8923				+14 wdy	Circulating. Prepare to pick up overshot.
5	8923				+18 clr	Circulating & waiting on fish tools.
6	8923				+24 clr	Try work over fish. No marks on overshot. Run in with bit.

DAILY PROGRESS REPORT CONT'D.

8:00 AM - 7:59 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON BOTTOM</u>	<u>BIT NO.</u>	<u>8:00 AM WEATHER</u>	<u>REMARKS</u>
Jan. 7/73	8938	15	15½		+12 clr	Bit marked from iron @8938'
8	8953	15	16½		+30 clr	Worked by fish @8926. String hang up @ 8949'
9	8953				+26 clr	Ran w/overshot, unable to get to bottom. Ran in w/ bit - cleaning out.
10	8953				+15 sno	Ran in w/ overshot to 8949'. Picked up fish.
11	8997	44	20½	89	-10 clr	Drill. Hole tight.
12	9039	42	10-3/4	90	-28 clr	Drill.
13	9079	40	12½	91	-30 clr	Cleaned 40' to bottom after trip. Drill.
14	9123	44	13½	92	-22 wdy	22' fill after trip. Drill.
15	9178	55	19½	92	-24 clr	Hole tight. Drill.
16	9239	61	15½	93	-35 clr	Tight 9020-80. Drill. Geologist arrived.
17	9255	16	6½	94&95	-36 clr	Bridged 9039-9110. Tight 9075-9025.
18	9287	32	18½	95	-34 clr	Drill - light wt. to hold back deviation.
19	9310	23	13½	95&96	-34 clr	Hole tight 9204-9110 on trip, 5' fill.
20	9352	42	17	96	-38 clr	Trip pulled tight 9150-9070.
21	9371	19	7	97	-19 clr	Trip. Run in & ream 9050 to bottom.
22	9396	25	13	97	-30 clr	Bit trip. Pull out 1st single tight only.
23	9437	41	17	98	-22 wdy	126' of fill.
24	9480	43	12½	98	-24 clr	Trip to change bit. Top of fill (obstruction) @ 9200'.
25	9510	30	8	99	-26 clr	14-3/4 hrs. to clean fill to bottom.

DAILY PROGRESS REPORT CONT'D.

8:00 AM - 7:59 AM

<u>DATE---</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON BOTTOM</u>	<u>BIT NO.</u>	<u>8:00AM WEATHER</u>	<u>REMARKS</u>
Jan.26/73	9577	67	17	99	-26 clr	Trip to change bit - bottom 5 singles tight.
27	9618	41	9-3/4	100	0 wdy	Fill @ 9270-9577'. Clean out 7½ hrs.
28	9664	46	10½	100	+18 wdy	Trip to change bit. Not as bad coming off bottom.
29	9741	77	19-3/4	101	+24 wdy	Clean out 3-3/4 hrs.
30	9839	98	14½	101-2	-8 sno	Trip fair - few small bridges on bottom.
31	9930	91	11-3/4	102	-22 sno	Checked collars. Run in w/bit.
Feb. 1	10068	138	14½	103	-24 cldy	9250-TD bridge - hr. clean out.
2	10196	128	14½	103-4	-2 clr	Lost circ. mat. by-pass shaker. Request by Calg'y.
3	10293	97	12	104	0 wdy	Remove lost circ. mat. Too windy to trip 5 hrs.
4	10476	183	19-3/4	105	+22 wdy	Approx. 20' fill. Pipe did not hang up.
5	10627	151	14½	105-6	+20 calm	Hole good on trip.
6	10752	125	15	106-7	+12 wdy	Hole good on trip.
7	10957	205	23¼	107	+22 calm	Good drill.
8	11138	181	21½	107	+8 calm	Good drill.
9	11233	95	10-3/4	107-8	+14 lt.wd	Trip good - fix brake.
10	11445	212	23¼	108	-10 calm	
11	11664	219	22¼	108	-32	
12	11795	131	14½	108-9	-32	Trip good.
13	12000	205	23¼	109	-30	
14	12106	106	14½	109-10	-20	
15	12344	238	23¼	110	-16	Considerable torque on bit (erratic.)
16	12474	130	12-3/4	110	-20	Considerable torque on bit (erratic.)

DAILY PROGRESS REPORT CONT'D.

8:00 AM - 7:59 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON POTOM</u>	<u>BIT NO.</u>	<u>8:00AM WEATHER</u>	<u>REMARKS</u>
Feb. 17/73	12676	202	21½	111	-18	Drill.
18	12914	238	23¼	111	-20	Drill.
19	13081	167	15	111	-8	Drill.
20	13175	94	8½	112	+15 sno	Prepare to run DST#1.
21	13175				-4 sno	DST#1 13080-13175 - misrun.
22	13200	25	2	113	-6 sno	Ran DST#2 - 13112 - 200 - misrun.
23	13338	138	10½	114	-4 sno	Drill.
24	13570	232	17½	114	-16 clr	Trip to log.
25	13570				-20 clr	Logging - DIL tool & Dipmeter didn't work, got replacements. Ran some Caliper & CNL.
26					+10 clr	Finished logging - attempted 24 sidewall cores - recovered only 4. Prepare to run velocity survey.
27					+15 cldy	Lost 19 DC, 2 subs, 2 stands INBR - 1 jars plus 2 singles D.P. 5" Top of fish 12926.
28					+18 sno	Screwed on top of fish. Pipe parted @2424'.
Mar. 1					-18 sno	Top of fish 2376. Screwed on, no movement. Waiting on line operator to find free point.
2					-22 clr	Backed off @4493'. Pulled out.
3					-26 cldy	Top of fish 8899'. Latched on & circulated. Pulled to 250M. Pipe let go & kelly jumped off hook.
4					-26 clr	Laid down 21 singles bent drill pipe. Latched on fish & kept slipping off. Changed grapples from 6-1/8" to 5-7/8" to 6".

DAILY PROGRESS REPORT CONT'D.

8:00 AM - 7:59 AM

<u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>HRS.ON BOTTOM</u>	<u>BIT NO.</u>	<u>8:00AM WEATHER</u>	<u>REMARKS</u>
Mar. 5/73						
6					-18 clr	Top of fish @8910. Prepare to run hookwall test.
7					-20 clr	Waiting on test tools.
8					-2 clr	Ran DST#3 8710 - TD - MISRUN.
9					-26 clr	Ran DST#4 8705 - TD - MISRUN.
10					-33 ovcst	Ran Plug #1 8900 - 8600 w/450 sax.
11					-25 ovcst	Felt Plug #1 @ 8388.
12					-20 clr	Tear out part of rig.
					-15 clr	Cut csg. Ran 11 sax in hole, mouse & rat. Installed location marker, welded plate. Operations ended.

DEVIATION RECORD

<u>DEPTH</u>	<u>DEVIATION (degrees)</u>	<u>DEPTH</u>	<u>DEVIATION (degrees)</u>
8818	1½	9426	3-7/8
8911	2	9441	3-3/4
8936	1-1/8	9471	3-5/8
8949	1½	9510	misrun
8990	1¼	9520	4 Totco
9011	1-3/4	9560	4
9055	2-1/8	9577	4
9100	2¼	9664	3½
9148	2½	9764	3-1/8
9180	2-3/4	9930	2½
9210	3-3/8	10120	2
9233	3-5/8	10293	2
9254	3-7/8	10495	2
9270	3-3/4	10707	2½
9285	3½	10968	2¼
9297	3½	11088	2
9312	3-3/4	11445	2
9327	3-5/8	11744	2
9342	3-5/8	12077	1
9352	3-5/8	12474	4¼
9371	3-3/4	12596	4¼
9386	3-5/8	12937	3½
9396	3-3/4	13175	2-3/4
9410	3-3/4	13570	3

DRILL STEM TESTS

Company - B. J. Service Division

TEST #1

Date	February 21st, 1973
Operator	C. Martineau
Formation	Ronning
Interval	13,080' - 13,175'
Misrun	Packers would not hold

TEST #2

Date	February 22nd, 1973
Operator	C. Martineau
Formation	Ronning
Interval	13,112' - 13,200'
Results	Packers held for 20 mins. then failed Misrun. Used 6500' water cushion. Good initial puff, weak air blow, becoming imperceptible for 19 mins, becoming fair air blow for 1 min. before mud dropped down annulus Reset once (unsuccessful). Rec. 6500' water cushion & 503' mud. Took salinities of fluid. Test of water cushion 100 ppm chloride. Top of mud recovery 1150 ppm chloride. Decrease in chloride in mud recovery to 350 ppm at top of tool.

Initial Hydrostatic pressure	7800#
Initial Flow Pressure	3000#
Final Flow Pressure	3100#
Final Hydrostatic Pressure	7500#

DRILL STEM TESTS CONT'D.

TEST #3

Date	March 7th, 1973		
Operator	C. Martineau		
Formation	All below intermediate casing		
Interval	8710' - TD		
Results	Hookwall packer in 9-5/8" casing. Valve open 3 hrs. Final shut in 2 hrs. Small initial puff decreasing to nil. Recovered 660' drilling mud. MISRUN - plugged tool		
IHP	5350	ISIP	- not taken
FHP	4720	FSIP	4180

TEST #4

Date	March 8th, 1972
Operator	C. Martineau
Formation	All below intermediate casing
Interval	8705' - TD
Results	Hookwall in 9-5/8" casing. Valve open 1 hr. Final shut in 1 hr. Weak air blow dead in 14 mins. Recovered 480' mud. MISRUN - tool plugged with shale.

INSIDE BOMB

IHP	5320	IFP	2370		
FHP	4650	FFP	3065	FSIP	3005

OUTSIDE BOMB

IHP	5410	IFP	4300		
FHP	4880	FFP	4485	FSIP	4350

SIDEWALL CORE DESCRIPTION

- #1 13,370 Limestone, light to medium grey, very fine to fine grained, slightly argillaceous, tight with a 1/4 inch wide fracture filled with calcite, white, fine to medium crystalline.
- #10 11,566 Limestone, light to medium grey with medium brownish grey, micritic to fine grained with veinlets of calcite, white.
Sample has the appearance of a braccis.
- #16 11,003 Limestone, white, fine to medium crystalline, tight.
Sample is probably metasomatic replacement of primary limestone and is related to the vein calcite.
- #18 10,680.5 Limestone, black, very argillaceous, micritic.
- should be processed for micro fauna.

Attempted cores at 13,370; 13210; 13125;
13,000; 12617; 12367; 12,268; 11946; 11805;
11,661; 11,564; 11,355; 11,305; 11,275; 11,110;
11,000; 10,835; 10,677; 10,657; 10,235; 9,710;
9,675; 9,195; 8,988.

PLUGS

Plug #1

Ran 100 sax cement + 100# R5, 145 sax cement + 160# D31, 27 sax sand with 145 sax cement. Displaced with 151 bbls. water. Plug down 6:45 PM, December 13th, 1972. Drill pipe set at 8975' K.B. while cementing.

Plug #2

Ran 20 bbls. water followed by 100 sax Oilwell + 32#R%, 300 sax Oilwell + 64# sand + 240 D31. Displaced with 5 bbls. water and 140 bbls mud. Plug down 9:01 AM, December 17th, 1972. Drill pipe set at 8975' K.B. while cementing.

Plug #3

Ran 400 sax Oilwell, 20% frac. sand, 100# M31 + river water. Plug down 9:45 AM, December 19th, 1972. Drill pipe set at 8980' K.B. while cementing.

Plug #4

Ran 250 sax neat cement, 250 sax cement with 20% sand, 300# D31, River water. Plug down 5:45 PM, December 21st, 1972. Drill pipe set at 8886' while cementing.

ABANDONMENT PLUGS

Plug #1

8900'- 8600'. Ran 450 sax Oilwell
Plug down 6:45 PM, March 8th, 1972.
Felt plug using 25000# at 8388'.

Plug #2

Cut casing 3 feet below surface.
Ran 11 sax cement. Welded plate and
installed location marker. Ran cement
in rat and mouse holes.

Operations ended March 12th, 1972.

ENERGY RESOURCES CONSERVATION BOARD
603 - 6 AVENUE SW, CALGARY, ALBERTA T2P 0T4

- WATER ANALYSIS -

CONTAINER IDENTITY:

LABORATORY NUMBER: C73-6243-5

OPERATOR NAME AND ADDRESS: Union Oil Company of Canada Limited

SAMPLE LOCATION: WELL OR SAMPLE LOCATION NAME: Union B-25 McPherson

FIELD OR AREA: POOL OR ZONE: Ronning NAME OF SAMPLER:

TEST TYPE & NO: DST 2 503' TEST RECOVERY:

TEST INTERVAL OR DEPTH: 13,112 - 13,200

POINT OF SAMPLE: #5 Water Cushion AMT & TYPE OF CUSHION: MUD RESISTIVITY:

TYPE OF PRODUCTION: PUMPING FLOWING GAS LIFT SWAB

PRODUCTION RATES: WATER BBL/D OIL BBL/D GAS MCF/D

PRESSURES - PSIG: TEMPERATURES (°F):

SEPARATOR: TREATFN: RESERVOIR: WHEN SAMPLED: WHEN RECEIVED:

DATE SAMPLED (10/M/Y): Feb 22/73 DATE RECEIVED (10/M/Y): Mar 5/73 DATE ANALYZED (10/M/Y): Mar 13/73 ANALYST: REMARKS:

ION	MG/L	MG%	MEQ/L
Na	6	8.45	0.25
K			
Ca	18	30.41	0.90
Mg	4	11.15	0.33
Bo			
Sr			
Fe	Present	--	--

ION	MG/L	MG%	MEQ/L
Cl	4	3.72	0.11
Br			
I			
HCO ₃	71	39.19	1.16
SO ₄	10	7.09	0.21
CO ₃	trace	trace	trace
OH			
H ₂ S	Nil	--	--

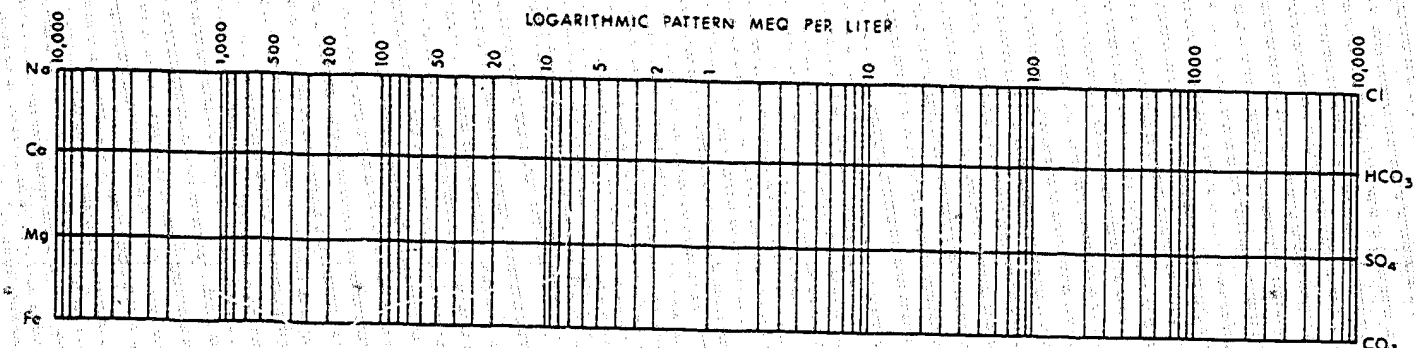
TOTAL SOLIDS Mg/L

BY EVAPORATION: 122 @ 110°C BY EVAPORATION: @ 160°C

AT IGNITION: 56 CALCULATED: 113

SPECIFIC GRAVITY: 1.001 @ 60°F REFRACTIVE INDEX: 1.3330 @ 25°C

OBSERVED PH: 8.3 @ 75°F RESISTIVITY (Ohm/meters): 72.5 @ 25°C



REMARKS

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. C73-6243-8

Received: March 5, 1973 Reported: March 13, 1973

Well: Location: Union B-25 McPherson

Operator: UNION OIL COMPANY OF CANADA LIMITED

Field or Area:

Elev.: K.B. Grd. Zone/Formation:

Sample Interval: 13,112' - 13,200'

Method of Production: D.S.T. #2

Sampled from: Top of Test Tool

Sampled by: B.J. Testers

Date: Feb. 22, 1973

OTHER PERTINENT DATA

Recovered: 503'

(Signed)

	Na & K	Ca	Mg					SO ₄	Cl			CO ₃	HCO ₃		
Mg./L	1431	14	17					653	270			143	2340		
Meq./L	62.23	0.70	1.40					13.58	7.61			4.76	38.38		
Meq. %	48.37	0.54	1.09					10.55	5.91			3.70	29.83		

Total Solids Mg/L: By Evaporation 4472

Fe Present Specific Gravity 1.008

@60°F

Observed pH 9.0 @ 75 °F

Calculated 4868 After Ignition 3356

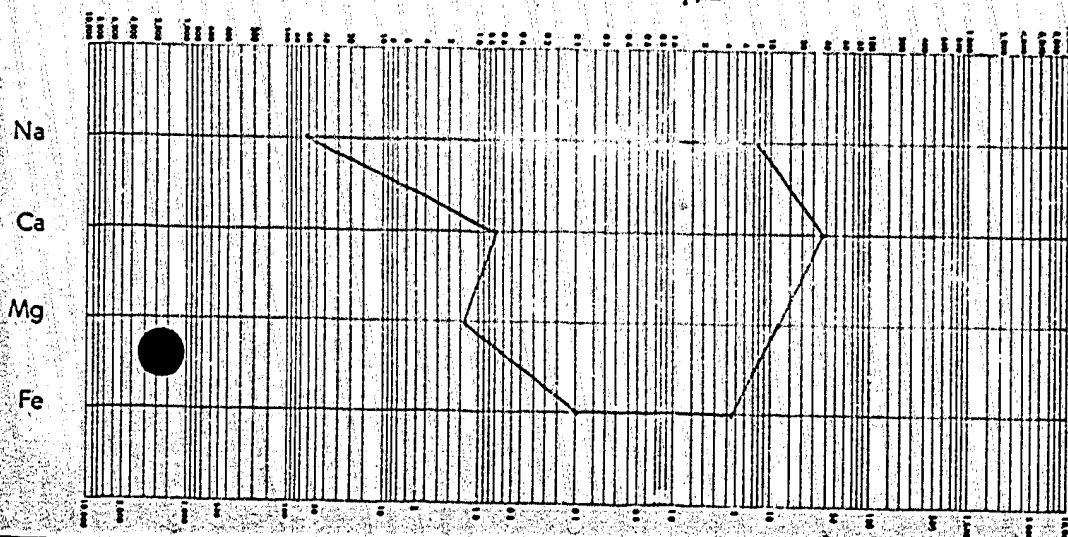
H₂S Nil Refractive Index 1.3338

@25°C

Resistivity 2.00 ohm meters @ 68 °F

Pattern Unit Meq./L

Organic matter - Present



Remarks and Conclusions

Analysis determined on an amber filtrate recovered from mud.

C73-6243-6: Top of Mud. Sample description same as above. RESISTIVITY: 1.85 OHM meters at 68°F.

C73-6243-7: Top of Collars. Sample description same as above. RESISTIVITY: 1.79 OHM meters at 68°F.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. C73-6243-5

Received: March 5, 1973 Reported: March 13, 1973

Well: Location: Union B-25 McPherson

Operator: UNION OIL COMPANY OF CANADA LIMITED

Field or Area:

Elev.: K.B.

Grd.

Zone/Formation: Ronning

Sample Interval: 13,112' - 13,200'

Method of Production: D.S.T. #2

Sampled from: #5 Water Cushion

Sampled by: B.J. Testers

Date: Feb. 22, 1973

OTHER PERTINENT DATA

Recovered: 503'

(Signed)

	Na & K	Ca	Mg					SO ₄	Cl			CO ₃	HCO ₃		
Mg./L	6	18	4					10	4			trace	71		
Meq./L	0.25	0.90	0.35					0.21	0.11			trace	1.16		
Meq. %	8.45	30.41	11.15					7.09	3.72			trace	39.19		

Total Solids Mg/L:

By Evaporation 122

Fe Present

Specific Gravity

1.001

@60°F

Observed pH 8.3

@ 75 °F

Calculated 113

After Ignition 56

H₂S Nil

Refractive Index

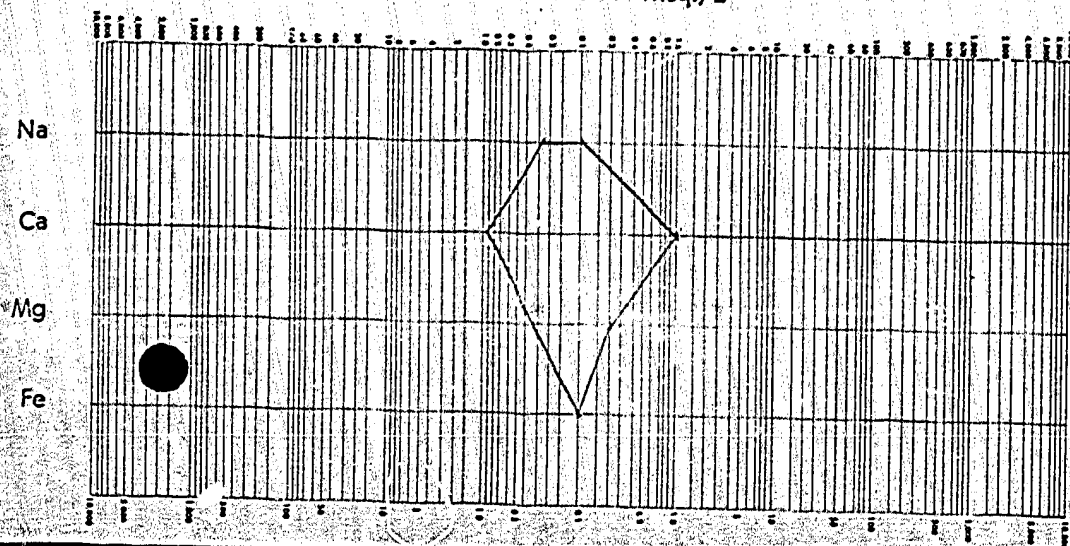
1.3330

@25°C

Resistivity 72.5 ohm meters @ 68 °F

Pattern Unit Meq./L

Organic matter - Present



Remarks and Conclusions

Analysis determined on a clear colorless filtrate recovered from water containing a trace of sediment.

C73-6243-1: Top of Water Cushion. Resistivity determined on an amber filtrate recovered from muddy water.

RESISTIVITY: 24.4 OHM meters at 68°F.

HCO₃ C73-6243-2: #2 Water Cushion. Sample description same as -1. RESISTIVITY: 25.6 OHM meters at 68°F.

SO₄ C73-6243-3: #3 Water Cushion. Sample description same as -1. RESISTIVITY: 70.2 OHM meters at 68°F.

CO₃ C73-6243-4: #4 Water Cushion. Sample description same as -1. RESISTIVITY: 52.1 OHM meters at 68°F.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E73-3459-5

Received: Mar. 15, 1973 Reported: Mar. 26, 1973

Operator: UNION OIL COMPANY OF CANADA LIMITED

Elev.: K.B.

Grd.

Zone/Formation:

Method of Production: D.S.T. #3

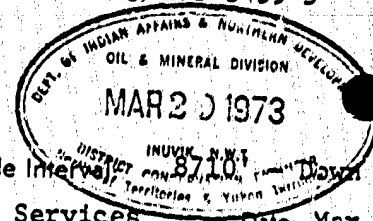
Well: Location: Union Amoco McPherson B-25

Field or Area:

Sampled from: Down Hole Sampler

Sampled by: B. J. Services

Date: Mar. 7, 1973



OTHER PERTINENT DATA

Recovered 660'.

(Signed)

	Na & K	K	Ca	Mg					SO ₄	Cl			CO ₂	HCO ₃	OH	
Mg./L	1,869		14	2					698	508			626	1,980	Nil	
Meq./L	81.31		0.70	0.16					14.52	14.33			20.85	32.47	---	
Meq. %	49.48		0.43	0.10					8.84	8.72			12.69	19.76	---	

Total Solids Mg/L:

By Evaporation 5,412

Fe Present

Specific Gravity

1.005

@60°F

Observed pH

8.9

@ 70 °F

Calculated 5,697

After Ignition

4,068

H₂S Nil

Refractive Index

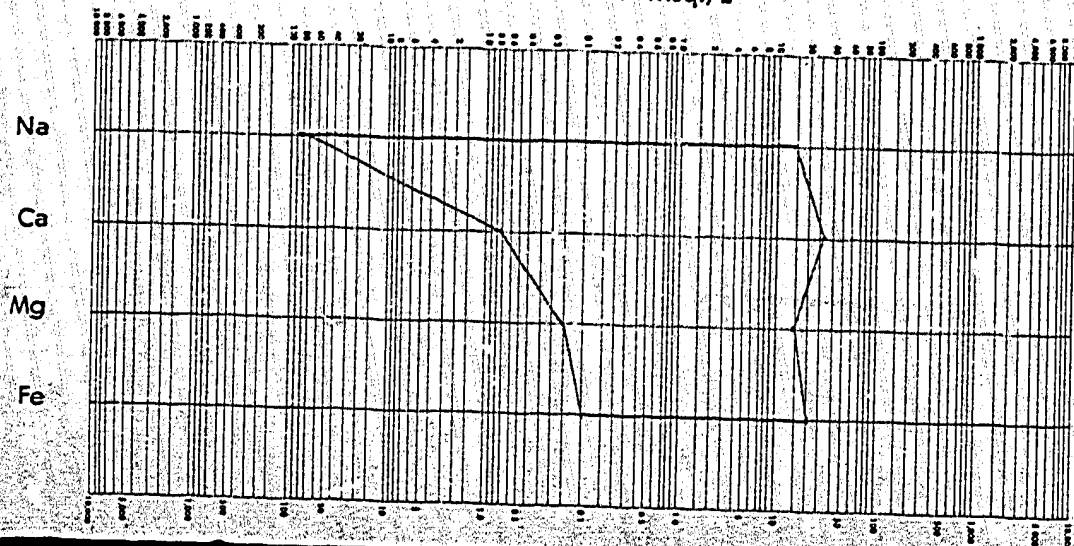
1.3341

@25°C

Resistivity 1.95

ohm meters @ 68 °F

Pattern Unit Meq./L



ORGANIC MATTER: Present

Remarks and Conclusions

Sample received in a B. J. Services down hole sampler under a pressure of 0.5 psig. Contained in the chamber was 2000 mls of mud. No recoverable gas was present. The water filtered from the mud was light yellowish in colour. The characteristics of the analysis are indicative of mud filtrate water.

Continued.....

- PAGE 2 -

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

OPERATOR: UNION OIL COMPANY OF CANADA LIMITED

REPORT NUMBER: E73-3459-1/-2/-3/-4

DATE SAMPLED: Mar. 7, 1973

DATE RECEIVED: Mar. 15, 1973

DATE REPORTED: Mar. 26, 1973

WELL: Union Amoco McPherson B-25

LABORATORY NUMBERSAMPLE POINTRESISTIVITY (OHM-METERS @ 68°F.)

F73-3459-1

570'

1.86

-2

390'

1.92

-3

210'

1.78

-4

30'

1.88

All four samples consisted of mud with a yellowish filtrate.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E73-3400-1

Received: Mar. 15, 1973 Reported: Mar. 26, 1973

Well: Location: Union Amoco McPherson B-25

Operator: UNION OIL COMPANY OF CANADA LIMITED

Field or Area:

Elev.: K.B.

Grd.

Zone/Formation:

Method of Production: D.S.T. #4

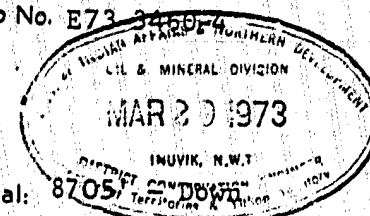
Sampled from: Down Hole Sampler

Sampled by: B. J. Services

Date: Mar. 7, 1973

OTHER PERTINENT DATA

Recovered 480'.

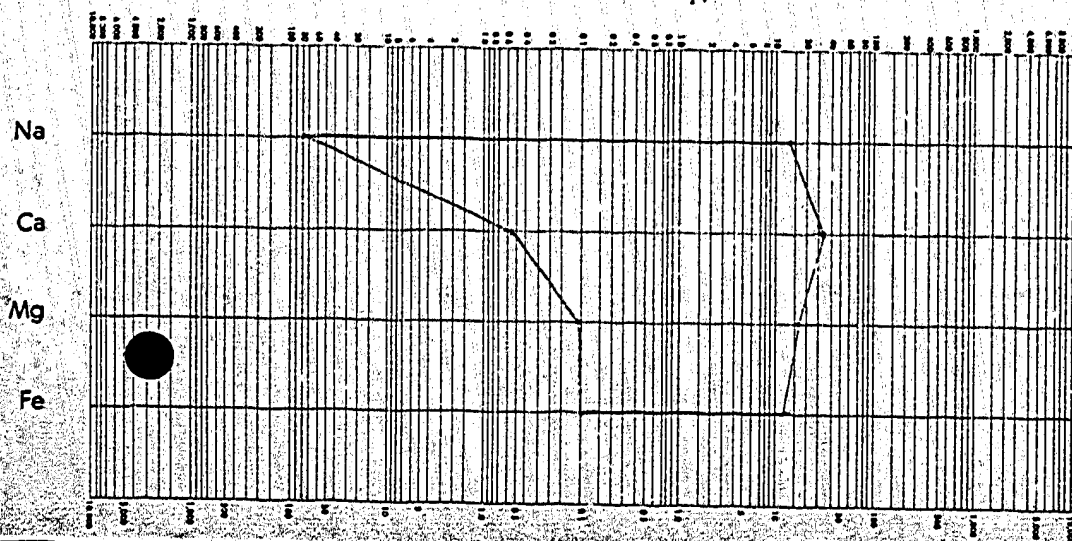


(Signed)

	Na & K	K	Ca	Mg					SO ₄	Cl			CO ₃	HCO ₃	OH	
Mg./L	1,761		11	1					739	518			414	2,040	Nil	
Meq./L	76.60		0.55	0.08					15.36	14.61			13.79	33.46	---	
Meq. %	49.59		0.36	0.05					9.95	9.46			8.93	21.66	---	

Total Solids Mg/L: By Evaporation 5,440 Fe Present Specific Gravity 1.005 @60°F Observed pH 8.9 @ 70 °F
 Calculated 5,484 After Ignition 4,220 H₂S Nil Refractive Index 1.3340 @25°C Resistivity 2.15 ohm meters @ 68 °F

Pattern Unit Meq./L



ORGANIC MATTER: Present

Remarks and Conclusions

Sample received in a B. J. Services down hole sampler under a pressure of 0 psig. Contained in the chamber was mud. No recoverable gas was present. The water filtered from the mud was colourless. The characteristics of the analysis are indicative of mud filtrate water.

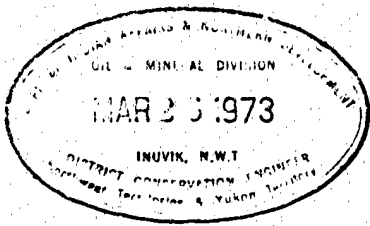
RESISTIVITY

LAB #	SAMPLE POINT	(OHM-METERS @ 68°F.)
E73-3400-1	390'	2.27
-2	210'	1.97
-3	Top of tool	1.99

All three samples consisted of mud with a colourless filtrate.

BJ

BORG X WARNER



DRILL STEM TEST REPORT

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED

UNION MCPHERSON

B 25

TEST NO. 1



TESTING REPORT

DRILL-STEM TEST DATA

Well Name UNION MCPHERSON B-25

Test No. 1

Well Number B-25

Zone Tested RONNING

Company UNION OIL COMPANY

Interval 13080 - 13175

Comp. Rep. C. SCHNEIDER

Tester C. MARTINEAU

Date FEBRUARY 20, 1973

Type of Test

RFS Tool No. 111

Prewlow

mins. ISI

mins. Flow

mins. FSI

mins.

	IN REC. No. 4485		OUT REC. No. 4484		REC. No.	
	12600	RANGE 24 HR CLOCK	12600	RANGE 24 HR CLOCK	RANGE	HR CLOCK
DEPTH						
Initial Hydro Mud Press		13062.5		13078.0		
Initial Shut-In Press		7594		7614		
Initial Flow Press						
Final Flow Press						
Final Shut-In Press						
Final Hydro Mud Press		7374		7382		

Mud Drop

Fluid Loss

Mud Weight 11

Viscosity 95

Temperature F 238

Net Pay Tested 95'

Top Packer Depth 13074

Bottom Packer Depth 13080

Total Depth 13175

Drill Pipe Size 5.0 EH

Wt 19.50 Drill Collar I D

Ft. Run

Surface Choke Size

Bottom Choke Size 0.5

Main Hole Size 8.500

Anchor Size 4.750

Rat Hole Size

Feet of Rat Hole

Cushion Amount 4000

Type

WATER

Rubber Size 7.500

Fluid Recovery Total Feet

K. covered Feet of

Rec. ired Feet of

Recover. d Feet of

Recovered Feet of

Recovered Feet of

Gas Recovery How Measured

Riser size:

mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press. Rdg.	psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe

REMARKS:

PACKERS WOULD NOT HOLD - MIS-RUN.



TESTING REPORT

WEIGHT INDICATOR READING
PRIOR TO SETTING PACKERS
AFTER PULL PACKERS LOOSE

	ID	OD	LENGTH	
4S LANDING SUB				
4S CHAMBER				
4S TOOL OR P.O. SUB			1.00	
CO SUB			2.00	
SHUT IN TOOL		4 3/4	6.20	
R.F.S. No. 111	2 1/4	4 3/4	3.00	
R.F.S. No.	2 1/4	4 3/4		
HYDRAULIC TOOL		4 3/4	7.20	
JARS	1	4 3/4		
RECORDER No. 4485	2 1/4	4 3/4	5.00	DEPTH 13062.50
RECORDER No.	2 1/4	4 3/4		DEPTH
SAFETY JOINT	2 1 1/16	4 3/4	2.50	
BY PASS SUB	1 5/32	4 3/4		
PACKER	1 OR 3/4		6.00	
PACKER	1 OR 3/4		5.00	TOOL ABOVE INTERVAL 37.90
ANCHOR—SPECIFY	2 1/2		1.00	
BLANK OFF OR BY PASS SUB	1 5/32	4 3/4		
RECORDER No. 4484	2 1/4	4 3/4	5.00	DEPTH 13078
PACKER	1 OR 3/4			TOTAL INTERVAL
PACKER	1 OR 3/4			
ANCHOR—SPECIFY	2 1/2			
PERFS			19.00	
X/O			1.00	
RECORDER No.	2 1/4	4 3/4		DEPTH
DRILL COLLARS			60.00	
X/O			1.00	
			5.00	
			3.00	
BULLNOSE	2 3/4	4 3/4		TOTAL TAIL PIPE 95
				TOTAL TEST TOOL 72.90

TOTAL DEPTH 13175

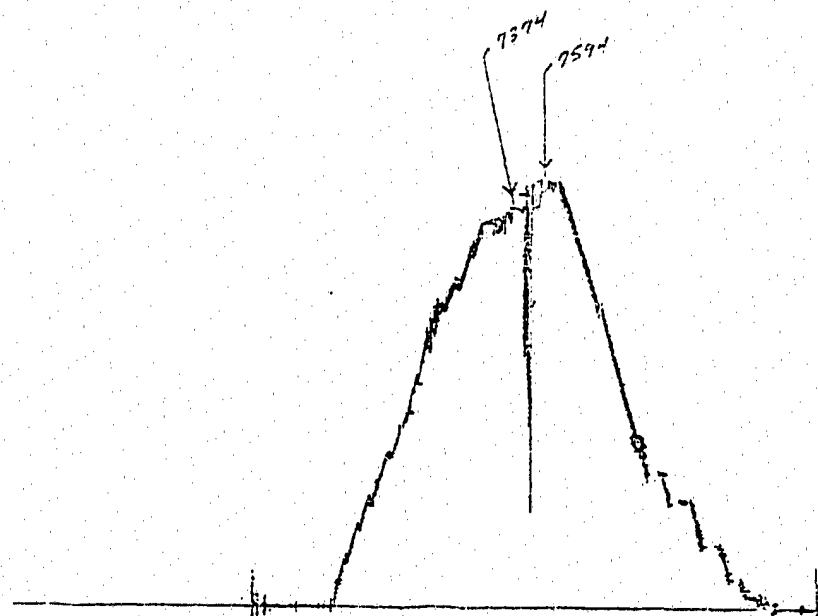
DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



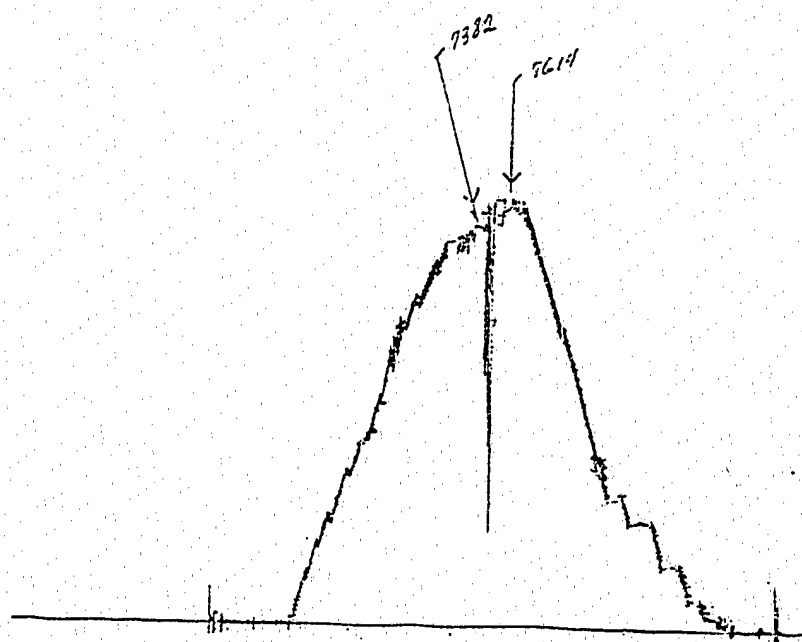
HIGH PERMEABILITY HIGH PERMEABILITY MEDIUM PERMEABILITY MEDIUM PERMEABILITY LOW PERMEABILITY LOW PERMEABILITY
NO DAMAGE EFFECT NO DAMAGE EFFECT STRONG DAMAGE EFFECT NO DAMAGE EFFECT STRONG DAMAGE EFFECT NO DAMAGE EFFECT

DST RECORDER CHARTS

UNION MCPHERSON B-25
DST NO. 1
INSIDE REC. NO. 4485



UNION MCPHERSON B-25
DST NO. 1
OUTSIDE REC. NO. 4484



BJ

BORG X WARNER

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED

UNION AMOCO MCPHERSON

B-25

TEST NO. 3



DRILL-STEM TEST DATA

Well Name	UNION AMOCO MCPHERSON	Test No.	3
Well Number	B25	Zone Tested	
Company	UNION OIL CO. OF CANADA LTD.	Interval	8710 - DOWN
Comp. Rep.	B. MACINTOSH	Tester	N. WIEBE
		Date	MARCH 6 & 7, 1973

Type of Test **CASING PACKER (OPEN HOLE BELOW)** RFS Tool No. **52**

Preflow **180** mins. ISI **120** mins. Flow mins. FSI mins.

	IN REC. No. 4484		OUT REC. No. 4485		REC. No.	
	12600	RANGE 24 HR. CLOCK	12600	RANGE 24 HR. CLOCK	RANGE	HR. CLOCK
DEPTH						
Initial Hydro Mud Press		8702		8732		
Initial Shut-In Press		5352		5357		
Initial Flow Press		3421		3802		
Final Flow Press		3241		4166		
Final Shut-In Press		4003		4086		
Final Hydro Mud Press		4669		4690		

Mud Drop	NIL	Fluid Loss		Mud Weight	11.2
Viscosity	95	Temperature °F		Net Pay Tested	
Top Packer Depth	8710	Bottom Packer Depth		Total Depth	13570
Drill Pipe Size	5.0	Wt.		Ft. Run	120'
Surface Choke Size	CLOSED	Bottom Choke Size	0.5	Main Hole Size	9.625 CSE
Ancho Size	4.750	Rat Hole Size		Feet of Rat Hole	
Cushion Amount		Type		Rubber Size	

Fluid Recovery Total Feet	660	
Recovered	660	Feet of
Recovered		Feet of
Recovered		Feet of
Recovered		Feet of
Recovered		Feet of

DRILLING MUD

Gas Recovery	How Measured			Riser size:	
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	= MCF/Day

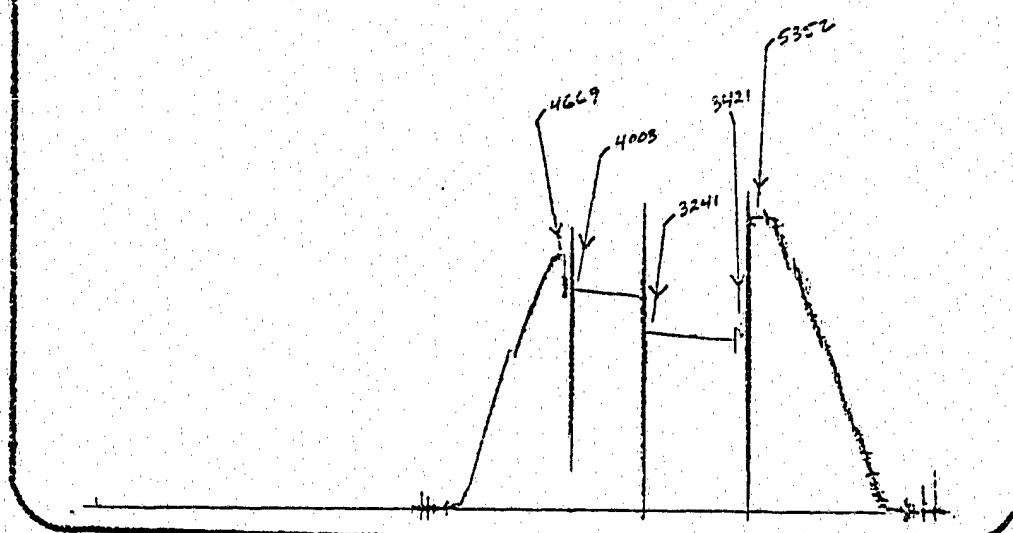
Bleed Off Time for Drill Pipe

REMARKS:

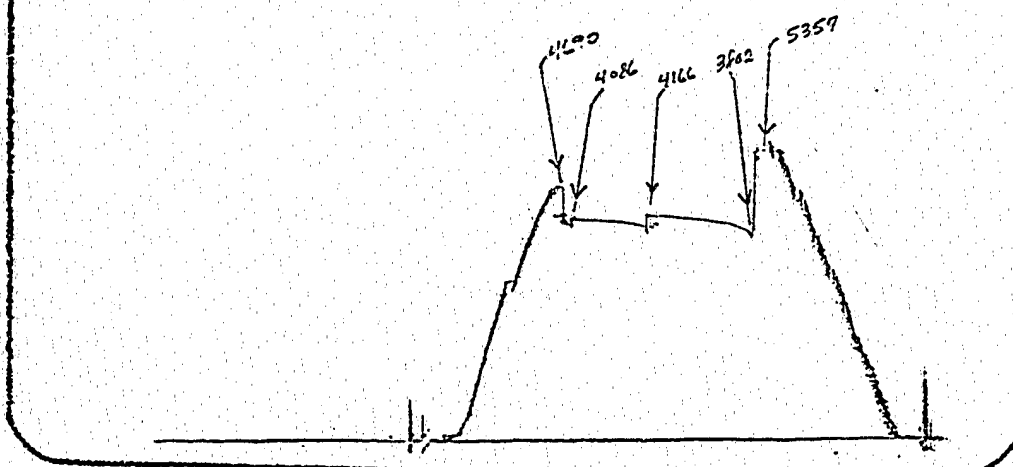
SMALL AIR BLOW DIEING AFTER 15 MINUTES.
NO TEMP. THERMOMETER - BROKE.
MIS-RUN DUE TO PLUGGING.

DST RECORDER CHARTS

UNION AMOCO MCPHERSON B-25
DST NO. 3
INSIDE REC. NO. 4484



UNION AMOCO MCPHERSON B-25
DST NO. 3
OUTSIDE REC. NO. 4485



BJ

BORG X WARNER

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED

UNION AMOCO MCPHERSON

B-25

TEST NO. 4



DRILL-STEM TEST DATA

Well Name	UNION AMOCO MCPHERSON	Test No.	4
Well Number	B25	Zone Tested	
Company	UNION OIL CO. OF CANADA LTD.	Interval	8705 - DOWN
Comp. Rep.	B.	Tester	
		Date	MARCH 7, 1973

Type of Test HOOK WALL

RFS Tool No. 111

Preflow 210 mins. ISI 60 mins. Flow mins. FSI mins.

DEPTH	IN REC No. 4484	OUT REC No. 4486	OUT REC No. 4487
	12600 RANGE 24 HR. CLOCK	12600 RANGE 24 HR. CLOCK	12650 RANGE 24 HR. CLOCK
Initial Hydro Mud Press.	5311	CLOCK STOPPED	5322
Initial Shut-In Press			
Initial Flow Press	2373		4047
Final Flow Press	3051		4307
Final Shut-In Press	2970		4182
Final Hydro Mud Press	4660		4686

Mud Drop NIL

Viscosity 95

Top Packer Depth 8705

Drill Pipe Size 5.0

Surface Choke Size

Anchor Size 4.750

Cushion Amount

Fluid Loss

Temperature °F

Bottom Packer Depth

Wt.

Drill Collar I.D.

Bottom Choke Size

Rat Hole Size

Type

Mud Weight 11.2

Net Pay Tested

Total Depth 13570

Fr. Run 120'

Main Hole Size 9.625 CSE

Feet of Rat Hole

Rubber Size

Fluid Recovery Total Feet 480

Recovered 480

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

DRILLING MUD

Gas Recovery How Measured

Riser size:

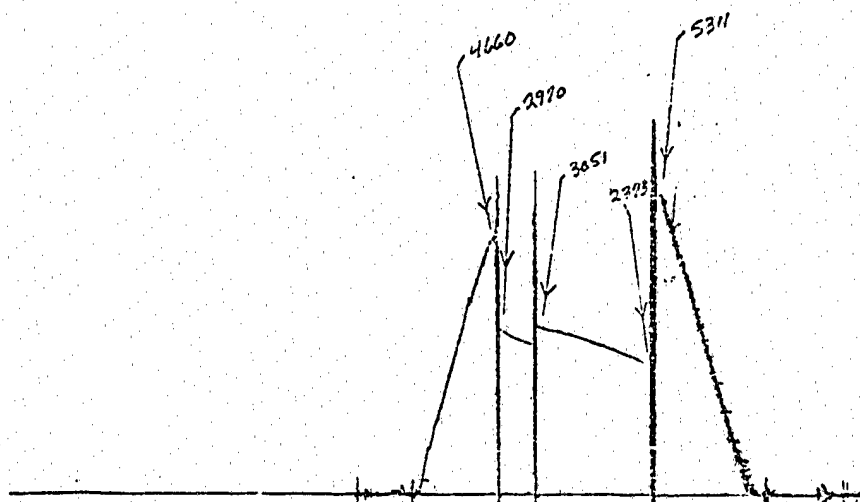
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe

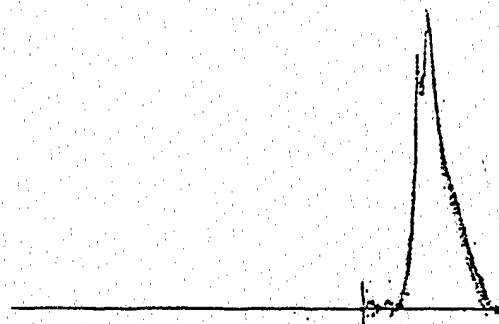
REMARKS: WEAK AIR BLOW, DEAD AFTER 15 MINUTES.
MIS-RUN DUE TO PLUGGING.

DST RECORDER CHARTS

UNION AMOCO MCPHERSON B-25
DST NO. 4
INSIDE REC. NO. 4484



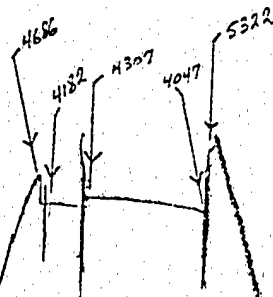
UNION AMOCO MCPHERSON B-25
DST NO. 4
OUTSIDE REC. NO. 4486





DST RECORDER CHARTS

UNION AMOCO MCPHERSON B-25
DST NO. 4
OUTSIDE REC. NO. 4487



CONSERVATION BOARD COPY

PETER BAWDEN DRILLING SERVICES LTD.
DRILLING CREW PAYROLL DATA

PROVINCE N.W.T.

WELL Union Amoco McPherson

COMPANY Union Oil Ltd.

[illegible][illegible]

CREW	CODE	NAME	EMPL. No.	HOURS		DIST CODE
				REG	OT	
DRILL- ER	1					
DRK- MAN	2					
CAT- HEAD	3					
FLR- MAN	4					
FLR- MAN	4					
COOK						
COOK'S HLPR.						
CAMP ATTN.						
			TOTAL REG HRS	TOTAL O.T. HRS.	TOTAL HOURS	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR Union Oil LTD		LOCATION Block #25		SEC. W.		TWP. W.		RGE. W.		WELL NAME Union Amoco McPherson B-25		No. B-25		PROVINCE NWT	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		No. MANUFACTURER TYPE		1.		2.		3.			

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
						Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING				STANDS DP		FT.																								WEIGHT				
TRIPPING				SNGLS. DP		FT.		TYPE																						VISC.				
RIG MAINTENANCE				D.C.		FT.		SIZE																						W.L.C.C.				
RIG REPAIRS				RMR BODY OD		FT.		NOZZ. SIZE																						FLTR. CK.				
HOLE SURVEYS				STB BODY OD		FT.		DEPTH IN																						pH				
CONDITIONING MUD				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
CONDITIONING HOLE				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
WORKING OR STUCK PIPE				Kelly Down		FT.		FT. CORED																										
FISHING				TOTAL		FT.		CUM. HRS. RUN																										
LOST CIRCULATION				WT OF STRING		LBS.		CONDITION																										
CASING				DRILLER		Thomas Devine																												
WAITING ON CEMENT				WEATHER CONDITIONS																														
HEADING UP & DRILLING OUT				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
MISC. ELLANEOUS				STANDS DP		FT.		Drilling or Core Bit No.																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
SUB TOTAL				SNGLS. DP		FT.		TYPE																						WEIGHT				
DAYWORK HOURS				D.C.		FT.		SIZE																						VISC.				
TOTAL HOURS				OD		FT.		NOZZ. SIZE																						W.L.C.C.				
WIRE LINE RECORD				RMR BODY OD		FT.		SERIAL No.																						FLTR. CK.				
				STB BODY OD		FT.		DEPTH IN																						pH				
				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
				Kelly Down		FT.		FT. CORED																										
				TOTAL		FT.		CUM. HRS. RUN																										
				WT OF STRING		LBS.		CONDITION																										
				DRILLER																														
				WEATHER CONDITIONS																														
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
				STANDS DP		FT.		Drilling or Core Bit No.																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
				SNGLS. DP		FT.		TYPE																						WEIGHT				
				D.C.		FT.		SIZE																						VISC.				
				OD		FT.		NOZZ. SIZE																						W.L.C.C.				
				RMR BODY OD		FT.		SERIAL No.																						FLTR. CK.				
				STB BODY OD		FT.		DEPTH IN																						pH				
				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
				Kelly Down		FT.		FT. CORED																										
				TOTAL		FT.		CUM. HRS. RUN																										
				WT OF STRING		LBS.		CONDITION																										
				DRILLER																														
				WEATHER CONDITIONS																														
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
				STANDS DP		FT.		Drilling or Core Bit No.																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
				SNGLS. DP		FT.		TYPE																						WEIGHT				
				D.C.		FT.		SIZE																						VISC.				
				OD		FT.		NOZZ. SIZE																						W.L.C.C.				
				RMR BODY OD		FT.		SERIAL No.																						FLTR. CK.				
				STB BODY OD		FT.		DEPTH IN																						pH				
				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
				Kelly Down		FT.		FT. CORED																										
				TOTAL		FT.		CUM. HRS. RUN																										
				WT OF STRING		LBS.		CONDITION																										
				DRILLER																														
				WEATHER CONDITIONS																														
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
				STANDS DP		FT.		Drilling or Core Bit No.																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
				SNGLS. DP		FT.		TYPE																						WEIGHT				
				D.C.		FT.		SIZE																						VISC.				
				OD		FT.		NOZZ. SIZE																						W.L.C.C.				
				RMR BODY OD		FT.		SERIAL No.																						FLTR. CK.				
				STB BODY OD		FT.		DEPTH IN																						pH				
				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
				Kelly Down		FT.		FT. CORED																										
				TOTAL		FT.		CUM. HRS. RUN																										
				WT OF STRING		LBS.		CONDITION																										
				DRILLER																														
				WEATHER CONDITIONS																														
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
				STANDS DP		FT.		Drilling or Core Bit No.																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
				SNGLS. DP		FT.		TYPE																						WEIGHT				
				D.C.		FT.		SIZE																						VISC.				
				OD		FT.		NOZZ. SIZE																						W.L.C.C.				
				RMR BODY OD		FT.		SERIAL No.																						FLTR. CK.				
				STB BODY OD		FT.		DEPTH IN																						pH				
				SUBS OD		FT.		DEPTH OUT																						SD. CONT.				
				BIT OR C.B.		FT.		FT. DRILLED																						MUD & CHEMICALS ADDED				
						FT.		FT. REAMED																						TYPE AMT. TYPE AMT.				
				Kelly Down		FT.		FT. CORED																										
				TOTAL		FT.		CUM. HRS. RUN																										
				WT OF STRING		LBS.		CONDITION																										
				DRILLER																														
				WEATHER CONDITIONS																														

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

DATE:

Sept 12/72

DATE:

Sept 12/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR Union Oil Ltd		LOCATION Block 25		SEC. 25		TWP. 25		RGE. 25		W. 25		WELL NAME Union Amoco McPherson		No. B-25		PROVINCE NWT	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2	TOOL JOINT OD	DRILL PIPE GRADE	PUMPS No. MANUFACTURER TYPE		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER															

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
DRILLING																																				
TRIPPING																																				
RIG MAINTENANCE																																				
RIG REPAIRS																																				
HOLE SURVEYS																																				
CONDITIONING MUD																																				
CONDITIONING HOLE																																				
Reaming & Cleaning To Bottom																																				
WORKING OR STUCK PIPE																																				
FISHING																																				
LOST CIRCULATION																																				
CASING																																				
WAITING ON CEMENT																																				
HEADING UP & DRILLING OUT																																				
MISC. ELLANEOUS																																				
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS																																				
WIRE LINE RECORD																																				
REEL No.																																				
No. OF LINES SIZE																																				
FEET SLIPPED																																				
FEET CUT OFF																																				
PRESENT LENGTH																																				
TON MI. or TRIPS SINCE LAST CUT																																				
CUMULATIVE TON MI. or TRIPS																																				
No. OF DAYS FROM SPUD																																				
CUMULATIVE ROTATING HRS.																																				
DAYS SINCE LAST ACCDNT.																																				
DRILLER ACCDNT. FREE DAYS																																				
MORNING TOUR																																				
DAY TOUR																																				
EVENING TOUR																																				

PETER BAWDEN DRILLING SERVICES LTD.
DRILLING CREW PAYROLL DATA

PROVINCE		NWT				
WELL		Union Amoco McPherson				
COMPANY		Union Oil Ltd				
TOOL PUSHER		RIG NO. 2				
CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2	THOMAS DEVINE		8		
CAT-HEAD	3	STEVE NEUFELD		8		
FLR-MAN	4					
FLR-MAN	4					
CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2					
CAT-HEAD	3					
FLR-MAN	4					
FLR-MAN	4					
CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2					
CAT-HEAD	3					
FLR-MAN	4					
FLR-MAN	4					
COOK						
COOK'S HLPR.						
CAMP ATTN.						
				TOTAL REG HRS	TOTAL OT HRS	TOTAL HOURS

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[illegible]

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[illegible]

DAILY TOUR REPORT

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OPERATOR Union Oil LTD	LOCATION BLOCK # 25	SEC. W.	TWP. W.	RGE. W.	WELL NAME Union Amoco McPherson	No. B-25	PROVINCE NWT.
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 2	TOOL JOINT OD	DRILL PIPE GRADE TYPE THD.	PUMPS No. MANUFACTURER TYPE 1. 2. 3.	CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER	
OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER						

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
DRILLING						STANDS DP		FT.		Drilling or Core Bit No.																				TIME						
TRIPPING						SNGLS. DP		FT.		TYPE																				WEIGHT						
RIG MAINTENANCE						D.C.		FT.		SIZE																				VISC.						
RIG REPAIRS						RMR BODY OD		FT.		NOZZ. SIZE																				W.L.-C.C.						
HOLE SURVEYS						STB BODY OD		FT.		SERIAL No.																				FLTR. CK.						
CONDITIONING MUD						SUBS OD		FT.		DEPTH IN																				pH						
CONDITIONING HOLE						BIT OR C.B.		FT.		DEPTH OUT																				SD. CONT.						
Reaming & Cleaning To Bottom								FT.		FT. DRILLED																				MUD & CHEMICALS ADDED						
WORKING OR STUCK PIPE						Kelly Down		FT.		FT. CORED																				TYPE AMT. TYPE AMT.						
FISHING						TOTAL		FT.		CUM. HRS. RUN																										
LOST CIRCULATION						WT OF STRING		LBS.		CONDITION																										
CASING						DRILLER																														
WAITING ON CEMENT						WEATHER CONDITIONS																														
HEADING UP & DRILLING OUT																																				
MISC. ELLANEOUS																																				
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS																																				

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
DRILLING						STANDS DP		FT.		Drilling or Core Bit No.																				TIME						
TRIPPING						SNGLS. DP		FT.		TYPE																				WEIGHT						
RIG MAINTENANCE						D.C.		FT.		SIZE																				VISC.						
RIG REPAIRS						RMR BODY OD		FT.		NOZZ. SIZE																				W.L.-C.C.						
HOLE SURVEYS						STB BODY OD		FT.		SERIAL No.																				FLTR. CK.						
CONDITIONING MUD						SUBS OD		FT.		DEPTH IN																				pH						
CONDITIONING HOLE						BIT OR C.B.		FT.		DEPTH OUT																				SD. CONT.						
Reaming & Cleaning To Bottom								FT.		FT. DRILLED																				MUD & CHEMICALS ADDED						
WORKING OR STUCK PIPE						Kelly Down		FT.		FT. CORED																				TYPE AMT. TYPE AMT.						
FISHING						TOTAL		FT.		CUM. HRS. RUN																										
LOST CIRCULATION						WT OF STRING		LBS.		CONDITION																										
CASING						DRILLER																														
WAITING ON CEMENT						WEATHER CONDITIONS																														
HEADING UP & DRILLING OUT																																				
MISC. ELLANEOUS																																				
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS																																				

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
DRILLING						STANDS DP		FT.		Drilling or Core Bit No.																				TIME						
TRIPPING						SNGLS. DP		FT.		TYPE																				WEIGHT						
RIG MAINTENANCE						D.C.		FT.		SIZE																				VISC.						
RIG REPAIRS						RMR BODY OD		FT.		NOZZ. SIZE																				W.L.-C.C.						
HOLE SURVEYS						STB BODY OD		FT.		SERIAL No.																				FLTR. CK.						
CONDITIONING MUD						SUBS OD		FT.		DEPTH IN																				pH						
CONDITIONING HOLE						BIT OR C.B.		FT.		DEPTH OUT																				SD. CONT.						
Reaming & Cleaning To Bottom								FT.		FT. DRILLED																				MUD & CHEMICALS ADDED						
WORKING OR STUCK PIPE						Kelly Down		FT.		FT. CORED																				TYPE AMT. TYPE AMT.						
FISHING						TOTAL		FT.		CUM. HRS. RUN																										
LOST CIRCULATION						WT OF STRING		LBS.		CONDITION																										
CASING						DRILLER																														
WAITING ON CEMENT						WEATHER CONDITIONS																														
HEADING UP & DRILLING OUT																																				
MISC. ELLANEOUS																																				
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS																																				

FORM D1-1.67	Gallons of Diesel Fuel on Hand at 8:00 a.m.	REPORT No.	DATE: <u>Sept 8/72</u>
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PETER BAWDEN DRILLING SERVICES LTD.
DRILLING CREW PAYROLL DATAPROVINCE NWT.
WELL Union Amoco McPherson B-25
COMPANY Union Oil LTDTOOL PUSHER _____ RIG NO. 2

CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2	Thomas Devine		8		
CAT-HEAD	3	Steve Neufeld		8		
FLR-MAN	4					
FLR-MAN	4					

CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2					
CAT-HEAD	3					
FLR-MAN	4					
FLR-MAN	4					

CREW	CODE	NAME	EMPL. No.	HOURS REG	OT	DIST CODE
DRILL-ER	1					
DRK-MAN	2					
CAT-HEAD	3					
FLR-MAN	4					
FLR-MAN	4					

TOTAL REG HRS	TOTAL OT HRS	TOTAL HOURS

DATE: Sept 8/72

CONSERVATION BOARD COPY

[illegible]

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PETER BAWDEN DRILLING SERVICES LTD.
DRILLING CREW PAYROLL DATA

PROVINCE NWT.

WELL Union Amoco McPherson B-25

COMPANY Union Oil Ltd

TOOL PUSHER _____ RIG NO. 2

[illegible][illegible][illegible]

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PROVINCE N.W.I.
WEL Union Amoco McPherson B-25
COMPANY Union Oil LTO

[illegible]

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION					WELL NAME		No.		PROVINCE								
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER				
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER					No.		MANUFACTURER		TYPE								
Union Oil LTD		2	2.54	4 1/2	OD	T				13 3/4	1524	0	1524	0.1111	15.70	2% Cat			
PETER BAWDEN DRILLING SERVICES LTD.																			
Charles Schneider		H. Rouse																	
TIME DISTRIBUTION—HOURS																			
Morn		Day		Eve															
DRILLING																			
TRIPPING																			
RIG MAINTENANCE																			
RIG REPAIRS																			
HOLE SURVEYS																			
CONDITIONING MUD																			
CONDITIONING HOLE																			
Reaming & Cleaning To Bottom																			
WORKING OR STUCK PIPE																			
FISHING																			
LOST CIRCULATION																			
CASING																			
WAITING ON CEMENT																			
HEADING UP & DRILLING OUT																			
MISC. ELLANEOUS																			
SUB TOTAL																			
DAYWORK HOURS																			
TOTAL HOURS																			
WIRE LINE RECORD																			
REEL No.																			
No. OF LINES		SIZE																	
FEET SLIPPED																			
FEET CUT OFF																			
PRESENT LENGTH																			
TON MI. OF TRIPS SINCE LAST CUT																			
CUMULATIVE TON MI. OF TRIPS																			
No. OF DAYS FROM SPUD		115																	
CUMULATIVE ROTATING HRS.																			
DAYS SINCE LAST ACCDNT.		175																	
DRILLER ACCDNT. FREE DAYS																			
MORNING TOUR																			
DAY TOUR																			
EVENING TOUR																			
MORNING TOUR																			
DAY TOUR																			
EVENING TOUR																			

CONSERVATION BOARD COPY

FORM D1-1.67

DATE: April 30 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil Ltd</i>		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME <i>Union Amoco McPherson</i>		No. <i>B-25</i>		PROVINCE <i>NWT</i>	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2 5</i>	TOOL JOINT <i>6 1/2</i>	OD <i>4 1/2</i>	DRILL PIPE GRADE <i>E</i>	PUMPS		CASING & LINER RECORD
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		1. MANUFACTURER <i>NATIONAL</i>		TYPE <i>10-2-130</i>		SIZE <i>1334</i>	WT & GR. <i>68155</i>
				2. <i>GD</i>		<i>9XR</i>		DEPTH SET FROM <i>1524</i>	TO <i>0-1000</i>
								TYPE OF CEMENT <i>0-1000</i>	CEMENT USED <i>15.70</i>
								OTHER <i>2% cat</i>	

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
DRILLING				STANDS DP		FT.		Drilling or Core Bit No.																												
TRIPPING				SNGLS. DP		FT.		TYPE																												
RIG MAINTENANCE				D.C. OD		FT.		SIZE																												
RIG REPAIRS				RMR BODY OD		FT.		SERIAL No.																												
HOLE SURVEYS				STB BODY OD		FT.		DEPTH IN																												
CONDITIONING MUD				SUBS OD		FT.		DEPTH OUT																												
CONDITIONING HOLE				BIT OR C.B.		FT.		FT. DRILLED																												
Reaming & Cleaning To Bottom								FT. REAMED																												
WORKING OR STUCK PIPE				Kelly Down		FT.		FT. CORED																												
				TOTAL		FT.		CUM. HRS. RUN																												
				WT OF STRING		LBS.		CONDITION																												
				DRILLER																																
				WEATHER CONDITIONS																																

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
FISHING				STANDS DP		FT.		Drilling or Core Bit No.																												
LOST CIRCULATION				SNGLS. DP		FT.		TYPE																												
CASING				D.C. OD		FT.		SIZE																												
WAITING ON CEMENT				RMR BODY OD		FT.		SERIAL No.																												
HEADING UP & DRILLING OUT				STB BODY OD		FT.		DEPTH IN																												
MISC. ELLANEOUS				SUBS OD		FT.		DEPTH OUT																												
				BIT OR C.B.		FT.		FT. DRILLED																												
								FT. REAMED																												
				Kelly Down		FT.		FT. CORED																												
				TOTAL		FT.		CUM. HRS. RUN																												
				WT OF STRING		LBS.		CONDITION																												
				DRILLER																																
				WEATHER CONDITIONS																																

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
REEL No.				STANDS DP		FT.		Drilling or Core Bit No.																												
No. OF LINES <i>10</i> SIZE <i>1 3/4</i>				SNGLS. DP		FT.		TYPE																												
FEET SLIPPED				D.C. OD		FT.		SIZE																												
FEET CUT OFF				RMR BODY OD		FT.		SERIAL No.																												
PRESENT LENGTH				STB BODY OD		FT.		DEPTH IN																												
TON MI. OF TRIPS SINCE LAST CUT				SUBS OD		FT.		DEPTH OUT																												
CUMULATIVE TON MI. OF TRIPS				BIT OR C.B.		FT.		FT. DRILLED																												
								FT. REAMED																												
				Kelly Down		FT.		FT. CORED																												
				TOTAL		FT.		CUM. HRS. RUN																												
				WT OF STRING		LBS.		CONDITION																												
				DRILLER																																
				WEATHER CONDITIONS																																

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
No. OF DAYS FROM SPUD <i>113</i>				STANDS DP		FT.		Drilling or Core Bit No.																												
CUMULATIVE ROTATING HRS. <i>173</i>				SNGLS. DP		FT.		TYPE																												
DAYS SINCE LAST ACCDNT. <i>173</i>				D.C. OD		FT.		SIZE																												
DRILLER ACCDNT. FREE DAYS				RMR BODY OD		FT.		SERIAL No.																												
				STB BODY OD		FT.		DEPTH IN																												
				SUBS OD		FT.		DEPTH OUT																												
				BIT OR C.B.		FT.		FT. DRILLED																												
								FT. REAMED																												
				Kelly Down		FT.		FT. CORED																												
				TOTAL		FT.		CUM. HRS. RUN																												
				WT OF STRING		LBS.		CONDITION																												
				DRILLER																																
				WEATHER CONDITIONS																																

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR union oil LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME union Amoro-Hobson		No. B-25		PROVINCE N.W.T.					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2 5/8"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE I	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		No. MANUFACTURER TYPE		1. 11AT 10P130		2. CO G&R		13 3/4 18 3/4 0 15 24 0 17 1/2 11 15.70		2 7/8 cat	

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR												
				No. DRILLING ASSEMBLY			BIT RECORD			Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.R.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
				STANDS DP FT.			Drilling or Core Bit No.																									TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
				SNGLS. DP FT.			TYPE																									WEIGHT				
				D.C. OD FT.			SIZE																									VISC.				
				RMR BODY OD FT.			SERIAL No.																									W.L.-C.C.				
				STB BODY OD FT.			DEPTH IN			From To		Elapsed Time																				FLTR. CK.				
				SUBS OD FT.			DEPTH OUT																									pH				
				BIT OR C.B. FT.			FT. DRILLED																									SD. CONT.				
				Kelly Down FT.			FT. CORED																									MUD & CHEMICALS ADDED				
				TOTAL FT.			CUM. HRS. RUN																									TYPE AMT. TYPE AMT.				
				WT OF STRING LBS.			CONDITION																													
				DRILLER <i>[Signature]</i>																																
				WEATHER CONDITIONS																																

WIRE LINE RECORD				MORNING TOUR										DAY TOUR										EVENING TOUR																		
PEEL No.				No. OF LINES SIZE			FEET SLIPPED			FEET CUT OFF			PRESENT LENGTH			TON MI. or TRIPS SINCE LAST CUT			CUMULATIVE TON MI. or TRIPS			No. OF DAYS FROM SPUD			CUMULATIVE ROTATING HRS.			DAYS SINCE LAST ACCDNT.			DRILLER ACCDNT. FREE DAYS			MORNING TOUR			DAY TOUR			EVENING TOUR		
				STANDS DP FT.			Drilling or Core Bit No.																																			
				SNGLS. DP FT.			TYPE																																			
				D.C. OD FT.			SIZE																																			
				RMR BODY OD FT.			SERIAL No.																																			
				STB BODY OD FT.			DEPTH IN			From To		Elapsed Time																														
				SUBS OD FT.			DEPTH OUT																																			
				BIT OR C.B. FT.			FT. DRILLED																																			
				Kelly Down FT.			FT. CORED																																			
				TOTAL FT.			CUM. HRS. RUN																																			
				WT OF STRING LBS.			CONDITION																																			
				DRILLER <i>[Signature]</i>																																						
				WEATHER CONDITIONS																																						

DAILY TOUR REPORT

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE																					
UNION OIL LTD.		LSD. SEC. TWP. RGE. W.				UNION AMOCO McPherson		B-25		NWT																					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																	
PETER BAWDEN DRILLING SERVICES LTD.		2	25	6 1/2" OD	E	No. MANUFACTURER TYPE			1374	6255	0 1524	Oilwell	15.70	2% cal.																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. NATIONAL 10-D-130																									
						2. G.D. GXR																									
						3.																									
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
Morn Day Eve		STANDS DP		Drilling or Core Bit No.		9475																						TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
DRILLING		SNGLS. DP		TYPE																								WEIGHT			
TRIPPING		D.C. 9' OD		14736 FT.		SIZE		12 1/4																				VISC.			
RIG MAINTENANCE		8' OD		238.33 FT.		NOZZ. SIZE		6C946																				W.L.-C.C.			
RIG REPAIRS		RMR BODY OD		89.24 FT.		SERIAL No.																						FLTR. CK.			
HOLE SURVEYS		STB BODY OD		FT.		DEPTH IN																						pH			
CONDITIONING MUD		SUBS 4' OD		3.91 FT.		DEPTH OUT																						SD. CONT.			
CONDITIONING HOLE		BIT OR C.B.		4.00 FT.		FT. DRILLED																									
Reaming & Cleaning To Bottom		JARS 10.45		FT.		FT. REAMED																									
WORKING OR STUCK PIPE		TOTAL		860 FT.		CUM. HRS. RUN		2 1/2																							
FISHING		WT OF STRING		205.00 LBS.		CONDITION																									
LOST CIRCULATION		DRILLER		Fred Schmidt		WEATHER CONDITIONS																									
CASING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
WAITING ON CEMENT		STANDS DP		FT.		Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
HEADING UP & DRILLING OUT		SNGLS. DP		FT.		TYPE		9475																						WEIGHT 10.5	
SUB TOTAL		D.C. OD		FT.		SIZE																								VISC. 320	
DAYWORK HOURS		RMR BODY OD		FT.		SERIAL No.																								W.L.-C.C. 8.8	
TOTAL HOURS		STB BODY OD		FT.		DEPTH IN																								FLTR. CK. 2/32	
WIRE LINE RECORD		SUBS OD		FT.		DEPTH OUT																								pH 8.5	
REEL No.		BIT OR C.B.		FT.		FT. DRILLED																								SD. CONT.	
No. OF LINES 10 SIZE 13/4		TOTAL		FT.		CUM. HRS. RUN																									
FEET SLIPPED		WT OF STRING		LBS.		CONDITION																									
FEET CUT OFF		DRILLER		P. P. Piquito		WEATHER CONDITIONS																									
PRESENT LENGTH		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
TON MI. OF TRIPS SINCE LAST CUT		STANDS DP		FT.		Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
CUMULATIVE TON MI. OF TRIPS		SNGLS. DP		FT.		TYPE		9475																						WEIGHT	
No. OF DAYS FROM SPUD 111		D.C. OD		FT.		SIZE																								VISC.	
DAYS SINCE LAST ACCDNT.		RMR BODY OD		FT.		SERIAL No.																								W.L.-C.C.	
DRILLER ACCDNT. FREE DAYS		STB BODY OD		FT.		DEPTH IN																								FLTR. CK.	
MORNING TOUR		SUBS OD		FT.		DEPTH OUT																								pH	
DAY TOUR		BIT OR C.B.		FT.		FT. DRILLED																								SD. CONT.	
EVENING TOUR		TOTAL		FT.		CUM. HRS. RUN																									
		WT OF STRING		LBS.		CONDITION																									
		DRILLER		L. Fortuna		WEATHER CONDITIONS																									
		No. OF DAYS FROM SPUD 111		CUMULATIVE ROTATING HRS.		DAYS SINCE LAST ACCDNT.		DRILLER ACCDNT. FREE DAYS																							
		MORNING TOUR		DAY TOUR		EVENING TOUR																									

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
Union Oil Ltd		Union Amoco McPherson							B-25	NWT					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	6 1/2" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD. 4 1/2 IF		E	No. MANUFACTURER TYPE		1. NATIONAL 10-P-130					15.70	2 1/2 cal
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Schneider		H. Roseth													

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD												
					STANDS DP	FT.	Drilling or Core Bit No.	76													TIME	1st HR.	3rd HR.	5th HR.	7th HR.								
DRILLING				1	SNGLS. DP	3133	FT.	TYPE	1144N	9475											WEIGHT	10.4	10.4	10.4	10.4								
TRIPPING				5	D.C. 9" OD	14736	FT.	SIZE	12 1/4												VISC.	295	290	290	265								
RIG MAINTENANCE				8	8" OD	238.33	FT.	NOZZ. SIZE	3/22												W.L.-C.C.	7.4	7.6	7.8	7.8								
RIG REPAIRS				3	RMR BODY 6 3/4" OD	89.24	FT.	SERIAL No.	325705												FLTR. CK.	3/32	3/32	3/32	3/32								
HOLE SURVEYS				2	STB BODY OD		FT.	DEPTH IN												PH	9.0	9.0	9.0	9.0									
CONDITIONING MUD				2	SUB 9/16 OD	3.91	FT.	DEPTH OUT													SD. CONT.												
CONDITIONING HOLE				2	BIT 9/16	400	FT.	FT. DRILLED													MUD & CHEMICALS ADDED												
Reaming & Cleaning To Bottom				2	JARS	10.45	FT.	FT. REAMED													TYPE	AMT.	TYPE	AMT.									
WORKING OR STUCK PIPE				2	Kelly Down		FT.	FT. CORED																									
FISHING				2	TOTAL	9180	FT.	CUM. HRS. RUN	86																								
LOST CIRCULATION				2	WT OF STRING	212000	LBS.	CONDITION																									
CASING				2	DRILLER	7000		WEATHER CONDITIONS																									
WAITING ON CEMENT				2																													
HEADING UP & DRILLING OUT				2																													
MISC. ELLANEOUS				2																													
SUB TOTAL				2																													
DAYWORK HOURS				2																													
TOTAL HOURS				2																													

WIRE LINE RECORD										MORNING TOUR										DAY TOUR										EVENING TOUR									
										No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD												
											STANDS DP	FT.	Drilling or Core Bit No.	76												TIME	1st HR.	3rd HR.	5th HR.	7th HR.									
No. OF LINES 10 SIZE 3/4										1	SNGLS. DP		FT.	TYPE	1144N	9475													WEIGHT	10.4	10.4	10.4	10.4						
FEET SLIPPED										5	D.C. 9" OD	14736	FT.	SIZE	12 1/4													VISC.	280	265	300	315							
FEET CUT OFF										8	8" OD	238.33	FT.	NOZZ. SIZE	3/22													W.L.-C.C.	7.4	7.6									
PRESENT LENGTH										3	RMR BODY 6 3/4" OD	89.24	FT.	SERIAL No.	325705														FLTR. CK.	3/32	3/32								
TON MI. OF TRIPS SINCE LAST CUT										2	STB BODY OD		FT.	DEPTH IN														PH	9.0	9.0									
CUMULATIVE TON MI. OF TRIPS										2	SUB 9/16 OD	3.91	FT.	DEPTH OUT													SD. CONT.												
No. OF DAYS FROM SPUD 110										2	BIT 9/16	400	FT.	FT. DRILLED														MUD & CHEMICALS ADDED											
CUMULATIVE ROTATING HRS. 171										2	JARS	10.45	FT.	FT. REAMED													TYPE	AMT.	TYPE	AMT.									
DAYS SINCE LAST ACCDNT. 171										2	Kelly Down		FT.	FT. CORED																									
DRILLER ACCDNT. FREE DAYS										2	TOTAL	9230	FT.	CUM. HRS. RUN	38 3/4																								
MORNING TOUR										2	WT OF STRING	210000	LBS.	CONDITION	IN																								
DAY TOUR										2	DRILLER	P. Paapant		WEATHER CONDITIONS																									
EVENING TOUR										2																													

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil Ltd</i>		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME <i>Union Amosa McPherson</i>		No. <i>B-25</i>		PROVINCE <i>NWT</i>				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2.5</i>	TOOL JOINT <i>6 1/2" OD</i>	DRILL PIPE GRADE <i>E</i>	PUMPS		CASING & LINER RECORD	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>H. Powell</i>		No. MANUFACTURER TYPE		1. <i>NATIONAL 10-2-130</i>		2. <i>G.D. GXR</i>		3.		
SIZE WT & GR.		1336 68555		0 1524		Oilwell		15.70		2% cat		

TIME DISTRIBUTION—HOURS				MORNING TOUR										MUD RECORD																				
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		TIME				
				90 STANDS DP 841146 FT.		Drilling or Core Bit No. 76																								1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING				1 SNGLS. DP 3110 FT.		TYPE 4444																								WEIGHT 10.35 10.35				
TRIPPING 3 1/4				D.C. 5' OD 4736 FT.		SIZE 12 1/2																								VISC. 6.30				
RIG MAINTENANCE 1 1/4 1/2				3 RMR BODY 238133 FT.		NOZZ. SIZE 3/22																								W.L.C.C. 7.6 7.6				
RIG REPAIRS				STB BODY OD 2924 FT.		SERIAL No. 325705																								FLTR. CK. 2/32 3/32				
HOLE SURVEYS				8 SUBS 2.91 FT.		DEPTH IN																								pH 4.0 9.0				
CONDITIONING MUD				BIT 500 400 FT.		FT. DRILLED																								SD. CONT.				
CONDITIONING HOLE				Jars 10.45 FT.		FT. REAMED																												
Reaming & Cleaning To Bottom 3 73/74				Kelly Down 4/00 FT.		FT. CORED																												
WORKING OR STUCK PIPE				TOTAL 8992 FT.		CUM. HRS. RUN 3																												
				WT OF STRING 212,000 LBS.		CONDITION																												
				DRILLER																														
				WEATHER CONDITIONS																														

DAY TOUR				DAY TOUR										MUD RECORD																				
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		TIME				
FISHING				91 STANDS DP 853494 FT.		Drilling or Core Bit No. 76																								1st HR. 3rd HR. 5th HR. 7th HR.				
LOST CIRCULATION				1 SNGLS. DP 14736 FT.		TYPE 4444																								WEIGHT 10.3 10.3 10.3 10.3				
CASING				5 D.C. 9' OD 14736 FT.		SIZE 12 1/2																								VISC. 3.15 2.53 2.60 3.30				
WAITING ON CEMENT				8 8' OD 238.33 FT.		NOZZ. SIZE 3/22																								W.L.C.C. 7.2 7.2 7.2 7.2				
HEADING UP & DRILLING OUT				3 RMR BODY 8924 FT.		SERIAL No. 325725																								FLTR. CK. 2/32 2/32 2/32 2/32				
MISC. ELLANEOUS				STB BODY OD 391 FT.		DEPTH IN																								pH 9.0 9.0 9.0 9.0				
SUB TOTAL				2 SUBS 391 FT.		DEPTH OUT																								SD. CONT.				
DAYWORK HOURS				BIT 500 400 FT.		FT. DRILLED																												
TOTAL HOURS 8 8 1/2				Jars 10.45 FT.		FT. REAMED																												
				Kelly Down 3400 FT.		FT. CORED																												
				TOTAL 9110 FT.		CUM. HRS. RUN 103 1/4																												
				WT OF STRING 210 LBS.		CONDITION																												
				DRILLER																														
				WEATHER CONDITIONS																														

WIRE LINE RECORD				EVENING TOUR										MUD RECORD																				
				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		TIME				
REEL No.				92 STANDS DP 862219 FT.		Drilling or Core Bit No. 76																								1st HR. 3rd HR. 5th HR. 7th HR.				
No. OF LINES 10 SIZE 13/4				1 SNGLS. DP 14736 FT.		TYPE 4444																								WEIGHT 10.3 10.4 10.4 10.4				
FEET SLIPPED				5 D.C. 9' OD 14736 FT.		SIZE 12 1/2																								VISC. 2.40 2.45 3.00 3.10				
FEET CUT OFF				8 8' OD 238.33 FT.		NOZZ. SIZE 3/22																								W.L.C.C. 7.4 7.0 7.2 7.0				
PRESENT LENGTH 110				3 RMR BODY 89.24 FT.		SERIAL No. 325705																								FLTR. CK. 2/32 2/32 2/32 2/32				
TON MI. or TRIPS SINCE LAST CUT 117				STB BODY OD 391 FT.		DEPTH IN																								pH 9.0 8.5 9.0 9.0				
CUMULATIVE TON MI. or TRIPS 322.77				2 SUBS 391 FT.		DEPTH OUT																								SD. CONT.				
No. OF DAYS FROM SPUD 109				BIT 500 400 FT.		FT. DRILLED																												
CUMULATIVE ROTATING HRS. 170				Jars 10.45 FT.		FT. REAMED																												
DAYS SINCE LAST ACCDNT. 170				Kelly Down 10 FT.		FT. CORED																												
DRILLER ACCDNT. FREE DAYS				TOTAL 9181 FT.		CUM. HRS. RUN 18																												
MORNING TOUR				WT OF STRING 212 LBS.		CONDITION																												
DAY TOUR				DRILLER																														
EVENING TOUR				WEATHER CONDITIONS																														

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE				
Union Oil Ltd		LSD. SEC. TWP. RGE. W.				Union Amoco McPherson		13-25		NWT				
CONTRACTOR		RIG No.	DRILL P/P	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5	6 1/2" OD	E	No. MANUFACTURER TYPE		133468155	0	1524	Oilwell	15.70	2% cal	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1. NATIONAL 10-P-130		2. G-2 6XR								
Charles McPherson		H. P. Reed												

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.											
DRILLING				91	STANDS DP	9054.30	Drilling or Core Bit No.	75											WEIGHT	103	103	103	103										
TRIPPING				2	SNGLS. DP	6266	TYPE	544											VISC.	300	330	300	265										
RIG MAINTENANCE				8	D.C.	238.33	SIZE	12 1/4											W.L.-C.C.	8.0	78	78	78										
RIG REPAIRS				3	6 3/4" OD	89.24	NOZZ. SIZE	3/22											FLTR. CK.	2/32	2/32	2/32	2/32										
HOLE SURVEYS					RMR BODY OD		SERIAL No.	378308											pH	9.0	9.0	9.0	9.0										
CONDITIONING MUD				2	SUBS % OD	3.91	DEPTH OUT												SD. CONT.														
CONDITIONING HOLE					BIT OR C.B.	2.80	FT. DRILLED												MUD & CHEMICALS ADDED														
Reaming & Cleaning To Bottom							FT. REAMED												TYPE	AMT.	TYPE	AMT.											
WORKING OR STUCK PIPE					Kelly Down	4/00	FT. CORED												GEL	600													
					TOTAL	9116	CUM. HRS. RUN	23 1/2																									
					WT OF STRING	190000	CONDITION																										
					DRILLER	Fred Schmitt											WATER																
					WEATHER CONDITIONS																												
FISHING					No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD														
LOST CIRCULATION																				TIME	1st HR.	3rd HR.	5th HR.	7th HR.									
CASING				8	8" OD	238.33	SIZE	12 1/4											WEIGHT	10.2	10.2	10.2	10.3										
WAITING ON CEMENT				3	6 3/4" OD	89.24	NOZZ. SIZE	3/22											VISC.	160	185	245	310										
HEADING UP & DRILLING OUT					RMR BODY OD		SERIAL No.	378308											W.L.-C.C.	7.8	7.8	7.8	7.2										
MISC. ELLANEOUS				2	SUBS % OD	3.91	DEPTH OUT												FLTR. CK.	2/32	2/32	2/32	2/32										
SUB TOTAL					BIT OR C.B.	2.80	FT. DRILLED												pH	9.0	9.0	9.0	9.0										
DAYWORK HOURS							FT. REAMED												SD. CONT.														
TOTAL HOURS				8	Kelly Down		FT. CORED												MUD & CHEMICALS ADDED														
WIRE LINE RECORD					TOTAL		CUM. HRS. RUN	3 1/4											TYPE	AMT.	TYPE	AMT.											
					WT OF STRING		CONDITION												GEL	1800													
					DRILLER	P. Paquette											CAUSTIC 50																
					WEATHER CONDITIONS												WATER																
REEL No.					No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD														
No. OF LINES 10 SIZE 1 3/4																				TIME	1st HR.	3rd HR.	5th HR.	7th HR.									
FEET SLIPPED					2	SNGLS. DP	6266	TYPE	544										WEIGHT	103	103												
FEET CUT OFF					8	D.C.	238.33	SIZE	12 1/4										VISC.	230	270												
PRESENT LENGTH					3	6 3/4" OD	89.24	NOZZ. SIZE	3/22										W.L.-C.C.	7.0	7.0												
TON MI. or TRIPS SINCE LAST CUT						RMR BODY OD		SERIAL No.	378308										FLTR. CK.	2/32	2/32												
CUMULATIVE TON MI. or TRIPS					2	SUBS % OD	3.91	DEPTH OUT											pH	9.0	9.0												
No. OF DAYS FROM SPUD 168						BIT OR C.B.	2.80	FT. DRILLED											SD. CONT.														
DAYS SINCE LAST ACCDNT. 169							FT. REAMED												MUD & CHEMICALS ADDED														
DRILLER ACCDNT. FREE DAYS						Kelly Down		FT. CORED											TYPE	AMT.	TYPE	AMT.											
MORNING TOUR						TOTAL		CUM. HRS. RUN	33 1/4										GEL	1200													
DAY TOUR						WT OF STRING	190000	CONDITION																									
EVENING TOUR						DRILLER	H. Fontana											WATER															
						WEATHER CONDITIONS	nice																										

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
union oil LTD		PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2		DRILL PIPE STRING No. 2		TOOL JOINT 6 1/2 OD		DRILL PIPE GRADE E	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.	
1. Nat		2. CO		3. 10P130		4. 64R		13 3/4 1625		0 1524	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		PUMP PRESS.		LINER SIZE	
DRILLING		4 3/4		1 1/4		1/4		PUMP No. 1		PUMP No. 2	
TRIPPING		4 3/4		1 1/4		1/4		PUMP No. 1		PUMP No. 2	
RIG MAINTENANCE		1 1/4		1/4		1/4		PUMP No. 1		PUMP No. 2	
RIG REPAIRS		2 1/2		1/4		1/4		PUMP No. 1		PUMP No. 2	
HOLE SURVEYS								PUMP No. 1		PUMP No. 2	
CONDITIONING MUD								PUMP No. 1		PUMP No. 2	
CONDITIONING HOLE								PUMP No. 1		PUMP No. 2	
Reaming & Cleaning To Bottom		7 3/4						PUMP No. 1		PUMP No. 2	
WORKING OR STUCK PIPE								PUMP No. 1		PUMP No. 2	
ST. P. CUT FISHING		3 1/4						PUMP No. 1		PUMP No. 2	
LOST CIRCULATION								PUMP No. 1		PUMP No. 2	
CASING								PUMP No. 1		PUMP No. 2	
WAITING ON CEMENT								PUMP No. 1		PUMP No. 2	
HEADING UP & DRILLING OUT								PUMP No. 1		PUMP No. 2	
MISC. ELLANEOUS								PUMP No. 1		PUMP No. 2	
SUB. TOTAL								PUMP No. 1		PUMP No. 2	
DAYWORK HOURS								PUMP No. 1		PUMP No. 2	
TOTAL HOURS		4 8 8						PUMP No. 1		PUMP No. 2	
WIRE LINE RECORD								PUMP No. 1		PUMP No. 2	
REEL No.								PUMP No. 1		PUMP No. 2	
No. OF LINES		10						PUMP No. 1		PUMP No. 2	
SIZE		1 3/4						PUMP No. 1		PUMP No. 2	
FEET SLIPPED		45						PUMP No. 1		PUMP No. 2	
FEET CUT OFF		90						PUMP No. 1		PUMP No. 2	
PRESENT LENGTH		110						PUMP No. 1		PUMP No. 2	
TON MI. or TRIPS SINCE LAST CUT		128						PUMP No. 1		PUMP No. 2	
CUMULATIVE TON MI. or TRIPS		3198						PUMP No. 1		PUMP No. 2	
No. OF DAYS FROM SPUD		167						PUMP No. 1		PUMP No. 2	
CUMULATIVE ROTATING HRS.								PUMP No. 1		PUMP No. 2	
DAYS SINCE LAST ACCT.		168						PUMP No. 1		PUMP No. 2	
DRILLER ACCT. FREE DAYS								PUMP No. 1		PUMP No. 2	
MORNING TOUR								PUMP No. 1		PUMP No. 2	
DAY TOUR								PUMP No. 1		PUMP No. 2	
EVENING TOUR								PUMP No. 1		PUMP No. 2	

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

3 190

REPORT No. 107

DATE: April 23 1972

CONSERVATION BOARD COPY

DATE: 6 Dec 79

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																						
Gulf Oil LTD		Union McPherson								B-25	UNIT																						
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/4	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																			
PETER BAWDEN DRILLING SERVICES LTD.		2	254	TYPE THD.	4 1/2	IF	E	No.	MANUFACTURER	TYPE	133/6455	0	1524 Oilwell	15,10	2 1/2 Cal																		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1.		2.		3.																									
Charles Wheeler		P. Roseth		1. Nat		10P130		2. GP		CXR																							
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
Morn Day Eve																																	
DRILLING		95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																							
TRIPPING		2		SNGLS. DP		6257 FT.		TYPE		XV																							
RIG MAINTENANCE		5		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																							
RIG REPAIRS		3		8" OD		238.33 FT.		NOZZ. SIZE		3/22																							
HOLE SURVEYS		3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																							
CONDITIONING MUD		2		SUBS 9" OD		391 FT.		DEPTH OUT		400																							
CONDITIONING HOLE		2		BIT 5" OD		400 FT.		FT. DRILLED		9475																							
Reaming & Cleaning To Bottom		13 1/4		Kelly Down		3500 FT.		FT. CORED		9475																							
WORKING OR STUCK PIPE		13 1/4		TOTAL		9475 FT.		CUM. HRS. RUN		9475																							
FISHING				WT OF STRING		222000 LBS.		CONDITION																									
LOST CIRCULATION				DRILLER		P. Roseth		WEATHER CONDITIONS																									
CASING				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
WAITING ON CEMENT				95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																					
HEADING UP & DRILLING OUT				2		SNGLS. DP		6257 FT.		TYPE		XV																					
MISC. ELLANEOUS				3		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																					
SUB TOTAL				8		8" OD		238.33 FT.		NOZZ. SIZE		3/22																					
DAYWORK HOURS				3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																					
TOTAL HOURS		8 88		2		SUBS 9" OD		391 FT.		DEPTH OUT		400																					
WIRE LINE RECORD				2		BIT 5" OD		400 FT.		FT. DRILLED		9475																					
REEL No.				2		Kelly Down		3500 FT.		FT. CORED		9475																					
No. OF LINES		10		TOTAL		9475 FT.		CUM. HRS. RUN		9475																							
FEET SLIPPED				WT OF STRING		222000 LBS.		CONDITION																									
FEET CUT OFF				DRILLER		P. Roseth		WEATHER CONDITIONS																									
PRESENT LENGTH				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
TON MI. OF TRIPS SINCE LAST CUT		1759		95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																					
CUMULATIVE TON MI. OF TRIPS		31860		2		SNGLS. DP		6257 FT.		TYPE		XV																					
No. OF DAYS FROM SPUD		105		3		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																					
DAYS SINCE LAST ACCDNT.		166		8		8" OD		238.33 FT.		NOZZ. SIZE		3/22																					
DRILLER ACCDNT. FREE DAYS				3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																					
MORNING TOUR				2		SUBS 9" OD		391 FT.		DEPTH OUT		400																					
DAY TOUR				2		BIT 5" OD		400 FT.		FT. DRILLED		9475																					
EVENING TOUR				2		Kelly Down		3500 FT.		FT. CORED		9475																					
				TOTAL		9475 FT.		CUM. HRS. RUN		9475																							
				WT OF STRING		222000 LBS.		CONDITION		1N																							
				DRILLER		P. Roseth		WEATHER CONDITIONS		P. Roseth																							
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
				95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																					
				2		SNGLS. DP		6257 FT.		TYPE		XV																					
				3		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																					
				8		8" OD		238.33 FT.		NOZZ. SIZE		3/22																					
				3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																					
				2		SUBS 9" OD		391 FT.		DEPTH OUT		400																					
				2		BIT 5" OD		400 FT.		FT. DRILLED		9475																					
				2		Kelly Down		3500 FT.		FT. CORED		9475																					
				TOTAL		9475 FT.		CUM. HRS. RUN		9475																							
				WT OF STRING		222000 LBS.		CONDITION		1N																							
				DRILLER		P. Roseth		WEATHER CONDITIONS		P. Roseth																							
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
				95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																					
				2		SNGLS. DP		6257 FT.		TYPE		XV																					
				3		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																					
				8		8" OD		238.33 FT.		NOZZ. SIZE		3/22																					
				3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																					
				2		SUBS 9" OD		391 FT.		DEPTH OUT		400																					
				2		BIT 5" OD		400 FT.		FT. DRILLED		9475																					
				2		Kelly Down		3500 FT.		FT. CORED		9475																					
				TOTAL		9475 FT.		CUM. HRS. RUN		9475																							
				WT OF STRING		222000 LBS.		CONDITION		1N																							
				DRILLER		P. Roseth		WEATHER CONDITIONS		P. Roseth																							
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
				95		STANDS DP		89460 FT.		Drilling or Core Bit No.		74																					
				2		SNGLS. DP		6257 FT.		TYPE		XV																					
				3		D.C. 9" OD		147.36 FT.		SIZE		12 1/4																					
				8		8" OD		238.33 FT.		NOZZ. SIZE		3/22																					
				3		RMR BODY 6" OD		89.24 FT.		SERIAL No.		110725																					
				2		SUBS 9" OD		391 FT.		DEPTH OUT																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																				
Union Oil LTD		Union Amoco McPherson								B-25	N.M.T.																				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER																		
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5/8	TYPE THD	4 1/2 IF	E	No.	MANUFACTURER	TYPE	SIZE	WT & GR.	FROM	TO																		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
Charles P. Bawden		H. Roseth																													
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn		Day		Eve																											
DRILLING		7 4																													
TRIPPING		3 1/4		4																											
RIG MAINTENANCE		1 1/4		1 1/4																											
RIG REPAIRS																															
HOLE SURVEYS				1 1/2																											
CONDITIONING MUD																															
CONDITIONING HOLE				4																											
Reaming & Cleaning To Bottom		3 1/4		3																											
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
CASING																															
WAITING ON CEMENT																															
HEADING UP & DRILLING OUT																															
MISC. ELLANEOUS																															
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS		8 88																													
WIRE LINE RECORD																															
REEL No.																															
No. OF LINES		10		SIZE 1 3/4																											
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH		155																													
TON MI. OF TRIPS SINCE LAST CUT		1447																													
CUMULATIVE TON MI. OF TRIPS		31549																													
No. OF DAYS FROM SPUD		104																													
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCNT.		165																													
DRILLER ACCDNT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR																															
EVENING TOUR																															

FORM D1-1.67

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE			
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				UNION AMOCO McPHERSON		B-25		N.W.T.			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/4 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD 1 1/2 IF	E	No. MANUFACTURER TYPE		1. NAT 10P-130	13 1/8 6.9555	0 1524		1570	2% CaCl2
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER											
Charles McPherson		H. Rose											

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.	DRILLING ASSEMBLY	BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD														
						Drilling or Core Bit No.													TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
DRILLING				7 3/4	2	STANDS DP 8837.85 FT.	72	9370	23		9393		85	25						WEIGHT	10.1	10.1	10.1	10.1									
TRIPPING					5	SNGLS. DP 61.87 FT.	XDU												VISC.	180	200	200	195										
RIG MAINTENANCE				1/4	8	D.C. 9" OD 147.36 FT.	12 1/4												W.L.C.C.	7.8	7.8	8.0	8.0										
RIG REPAIRS				2	3	8" OD 238.33 FT.	3/22												FLTR. CK.	2/32	2/32	2/32	2/32										
HOLE SURVEYS				1/4	1	RMR BODY 89.27 FT.	KD854												PH	9.5	9.5	9.5	9.5										
CONDITIONING MUD					2	STB BODY 13.80 FT.	9346												SD. CONT.														
CONDITIONING HOLE					1	SUBS 3.91 FT.	9346												MUD & CHEMICALS ADDED														
Reaming & Cleaning To Bottom					1	BIT 4.00 FT.	47												TYPE	AMT.	TYPE	AMT.											
WORKING OR STUCK PIPE						JARS 10.45 FT.													GEL 2000#														
FISHING						Kelly Down 23.00 FT.													CAUSTIC 50#														
LOST CIRCULATION						TOTAL 9393 FT.	11 3/4																										
CASING						WT OF STRING 220,000 LBS.																											
WAITING ON CEMENT						DRILLER																											
HEADING UP & DRILLING OUT						WEATHER CONDITIONS																											
MISC. ELLANEOUS																																	
SUB TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS				8 8																													

WIRE LINE RECORD		DAY TOUR										EVENING TOUR									
		No.	DRILLING ASSEMBLY	BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
				Drilling or Core Bit No.													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
REEL No.		95	STANDS DP 8941.01 FT.	72	9412	8	9420										WEIGHT	10.1	10.1		
No. OF LINES 10 SIZE 1 3/4		5	SNGLS. DP 147.36 FT.	XDU													VISC.	260	200		
FEET SLIPPED		8	D.C. 9" OD 147.36 FT.	12 1/4													W.L.C.C.	7.8	7.8		
FEET CUT OFF		3	8" OD 238.33 FT.	3/22													FLTR. CK.	2/32	2/32		
PRESENT LENGTH		1	RMR BODY 89.27 FT.	KD854													PH	9.5	9.5		
TON MI. or TRIPS SINCE LAST CUT		1	STB BODY 13.80 FT.	9346													SD. CONT.				
CUMULATIVE TON MI. or TRIPS		2	SUBS 3.91 FT.	9346													MUD & CHEMICALS ADDED				
		1	BIT 4.00 FT.	66													TYPE	AMT.	TYPE	AMT.	
No. OF DAYS FROM SPUD 102			JARS 10.45 FT.														GEL 1200#				
CUMULATIVE ROTATING HRS. 162			Kelly Down 10.00 FT.																		
DAYS SINCE LAST ACCDNT. 162			TOTAL 9412 FT.	17 1/2																	
DRILLER ACCDNT. FREE DAYS			WT OF STRING 22200 LBS.																		
MORNING TOUR			DRILLER																		
DAY TOUR			WEATHER CONDITIONS																		
EVENING TOUR 45																					

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL LTD		BLOCK-25												UNION AMOCO McPHERSON		B-25		N.W.T.							
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		OD		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 1/2"		6 1/2"		OD		E		No. MANUFACTURER TYPE		1. NAI 10 P-130		2. G-D GXR		133/68555 0 1524				1570		2% CaCl2	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																			
DRILLING		7 3/4		4 1/4																					
TRIPPING		2 1/2		3 1/4																					
RIG MAINTENANCE		1/4		1/4		1/4																			
RIG REPAIRS																									
HOLE SURVEYS				1/2																					
CONDITIONING MUD																									
CONDITIONING HOLE																									
Reaming & Cleaning To Bottom				1/4																					
WORKING OR STUCK PIPE																									
Shipping				1/4																					
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC ELLANEOUS																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		8		8		8																			
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE		13/8																			
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. or TRIPS SINCE LAST CUT																									
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCONT.																									
DRILLER ACCONT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR		44																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION Block-25		WELL NAME UNION AMOCO McPHERSON		No. B-25		PROVINCE N.W.T.						
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE No. 25 SIZE 2 1/2"	TOOL JOINT 6 1/2" OD 6 1/2"	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE 3 3/8 68 J55	WT & GR. 0	DEPTH SET FROM 1524 TO	TYPE OF CEMENT	CEMENT USED 1570	OTHER 2% Cal L2
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>H. Roseth</i>		1. NAT 2. G-D 3. GXR		1. 10P-130 2. GXR								

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
Morn	Day	Eve		No.		STANDS DP	Drilling or Core Bit No.	TYPE	SIZE	NOZZ. SIZE	SERIAL No.	DEPTH IN	DEPTH OUT	FT. DRILLED	FT. REAMED	FT. CORED	CUM. HRS. RUN	CONDITION	From	To	Elapsed Time	REMARKS	PUMP No. 1	PUMP No. 2	TIME	1st HR.	3rd HR.	5th HR.	7th HR.						
DRILLING	7 3/4	1 1/4	3 3/4	93	STANDS DP	8695.57	70	00V	12 1/4	3/22	FE080	9265	26	9291						85	25			1750	674	62	774	10.1	10.1	10.1	10.1				
TRIPPING		3 1/2		2	SNGLS. DP	62.54	00V		12 1/4	3/22	FE080	9265	26	9291						85	25			1750	674	62	774	200	200	220	245				
RIG MAINTENANCE	1/4	1/4	1/4	5	D.C.	142.36	12 1/4		3/22	FE080	9265	26	9291						85	25			1750	674	62	774	7.0	7.2	7.4	7.6					
RIG REPAIRS				8	8" OD	238.33	12 1/4		3/22	FE080	9265	26	9291						85	25			1750	674	62	774	3.2	3.2	3.2	3.2					
HOLE SURVEYS				3	RMR BODY	89.27	FE080												85	25			1750	674	62	774	9.5	9.5	9.5	9.0					
CONDITIONING MUD				1	STB BODY	13.80	9246												85	25			1750	674	62	774									
CONDITIONING HOLE				2	SUBS	3.91	9246												85	25			1750	674	62	774									
Reaming & Cleaning To Bottom			1 1/2	1	BIT	4.00	9246												85	25			1750	674	62	774									
WORKING OR STUCK PIPE				2	SUBS	3.91	9246												85	25			1750	674	62	774									
FISHING				1	BIT	4.00	9246												85	25			1750	674	62	774									
LOST CIRCULATION				2	SUBS	3.91	9246												85	25			1750	674	62	774									
CASING				1	BIT	4.00	9246												85	25			1750	674	62	774									
WAITING ON CEMENT				2	SUBS	3.91	9246												85	25			1750	674	62	774									
HEADING UP & DRILLING OUT				1	BIT	4.00	9246												85	25			1750	674	62	774									
MISC. ELLENEOUS				2	SUBS	3.91	9246												85	25			1750	674	62	774									
SUB TOTAL				1	BIT	4.00	9246												85	25			1750	674	62	774									
DAYWORK HOURS				2	SUBS	3.91	9246												85	25			1750	674	62	774									
TOTAL HOURS	8	8		1	BIT	4.00	9246												85	25			1750	674	62	774									
WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
REEL No.				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
No. OF LINES 10 SIZE 1 3/8				94		STANDS DP 8786.47		71		9303		11		9314						85		25		1750		674		22				TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
FEET SLIPPED				5		1 9" OD 142.36		SIZE 12 1/4		9303		11		9314						85		25		1750		674		22				WEIGHT 10.1 10.1 10.1 10.1			
FEET CUT OFF				8		8" OD 238.33		NOZZ. SIZE 3/22		9303		11		9314						85		25		1750		674		22				VISC. 220 220 210 T			
PRESENT LENGTH				3		RMR BODY 89.27		SERIAL No. 325563		9303		11		9314						85		25		1750		674		22				W.L.-C.C. 24 24 76 R			
TON MI. or TRIPS SINCE LAST CUT				1		STB BODY 13.80		DEPTH IN 9303		9303		11		9314						85		25		1750		674		22				FLTR. CK. 3/32 3/32 3/32 3/32			
CUMULATIVE TON MI. or TRIPS				2		SUBS 3.91		DEPTH OUT 9303		9303		11		9314						85		25		1750		674		22				PH 9.5 9.5 9.5 9.5			
No. OF DAYS FROM SPUD 100				1		BIT 4.00		FT. DRILLED 11		9303		11		9314						85		25		1750		674		22				SD. CONT.			
CUMULATIVE ROTATING HRS.				1		SUBS 3.91		FT. REAMED 11		9303		11		9314						85		25		1750		674		22				MUD & CHEMICALS ADDED			
DAYS SINCE LAST ACCDNT. 161				2		SUBS 3.91		FT. CORED 11		9303		11		9314						85		25		1750		674		22				TYPE AMT. TYPE AMT.			
DRILLER ACCDNT. FREE DAYS				1		SUBS 3.91		CUM. HRS. RUN 374		9303		11		9314						85		25		1750		674		22				CAUSTIC 50			
MORNING TOUR				1		SUBS 3.91		CONDITION 3.31		9303		11		9314						85		25		1750		674		22				WATER			
DAY TOUR				2		SUBS 3.91				9303		11		9314						85		25		1750		674		22							
EVENING TOUR 43				1		SUBS 3.91				9303		11		9314						85		25		1750		674		22							

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
Morn	Day	Eve		No.		STANDS DP	Drilling or Core Bit No.	TYPE	SIZE	NOZZ. SIZE	SERIAL No.	DEPTH IN	DEPTH OUT	FT. DRILLED	FT. REAMED	FT. CORED	CUM. HRS. RUN	CONDITION	From	To	Elapsed Time	REMARKS	PUMP No. 1	PUMP No. 2	TIME	1st HR.	3rd HR.	5th HR.	7th HR.						
DRILLING	7 3/4	1 1/4	3 3/4	93	STANDS DP	8695.57	70	00V	12 1/4	3/22	FE080	9265	26	9291						85	25			1750	674	62	774	10.1	10.1	10.1	10.1				
TRIPPING		3 1/2		2	SNGLS. DP	62.54	00V		12 1/4	3/22	FE080	9265	26	9291						85	25			1750	674	62	774	200	200	220	245				
RIG MAINTENANCE	1/4	1/4	1/4	5	D.C.	142.36	12 1/4		3/22	FE080	9265	26	9291						85	25			1750	674	62	774	7.0	7.2	7.4	7.6					
RIG REPAIRS				8	8" OD	238.33	12 1/4		3/22	FE080	9265	26	9291						85	25			1750	674	62	774	3.2	3.2	3.2	3.2					
HOLE SURVEYS				3	RMR BODY	89.27	FE080												85	25			1750	674	62	774	9.5	9.5	9.5	9.0					
CONDITIONING MUD				1	STB BODY	13.80	9246												85	25			1750	674	62	774									
CONDITIONING HOLE				2	SUBS	3.91	9246												85	25			1750	674	62	774									
Reaming & Cleaning To Bottom			1 1/2	1	BIT	4.00	9246												85	25			1750	674	62	774									
WORKING OR STUCK PIPE				2	SUBS	3.91	9246												85	25			1750	674	62	774									
FISHING				1	BIT	4.00	9246												85	25			1750	674	62	774									
LOST CIRCULATION				2	SUBS	3.91	9246												85	25			1750	674	62	774									
CASING				1	BIT	4.00	9246												85	25			1750	674	62	774									
WAITING ON CEMENT				2	SUBS	3.91	9246												85	25			1750	674	62	774									
HEADING UP & DRILLING OUT				1	BIT	4.00	9246												85	25			1750	674	62	774									
MISC. ELLENEOUS				2	SUBS	3.91	9246												85	25			1750	674	62	774									
SUB TOTAL																																			

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	NO.	PROVINCE													
UNION OIL LTD									UNION AMOCO McPHERSON	B-25	N.W.T.													
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/2" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER										
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 3/4"	TYPE THD 4 1/2 IF	E	No. MANUFACTURER TYPE		13 3/8 68 J55	0	1524			1570											
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																						
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD						
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.		
DRILLING		93 STANDS DP 8693.57 FT.		Drilling or Core Bit No. 69		9237		9		9246									WEIGHT	10.1	10.1	10.1	10.1	
TRIPPING		1 SNGLS. DP 31.38 FT.		TYPE D5J															VISC.	180	160	180	210	
RIG MAINTENANCE		5 9" OD 142.36 FT.		SIZE 12 1/4															W.L.C.C.	6.8	7.0	7.0	7.2	
RIG REPAIRS		8 8" OD 238.33 FT.		NOZZ. SIZE 3/22															FLTR. CK.	2/32	2/32	2/32	2/32	
HOLE SURVEYS		3 RMR BOD 89.27 FT.		SERIAL No. 339068															pH	9.5	9.5	9.5	9.5	
CONDITIONING MUD		1 STB BOD 13.80 FT.		DEPTH IN 9235															SD. CONT.					
CONDITIONING HOLE		2 SUB 3.91 FT.		DEPTH OUT 9246															MUD & CHEMICALS ADDED					
Reaming & Cleaning To Bottom		1 BIT 4.00 FT.		FT. DRILLED 11															TYPE	AMT.	TYPE	AMT.		
WORKING OUT		JARS 10.45 FT.		FT. REAMED															Caustic	50				
FISHING		Kelly Down 12.00 FT.		FT. CORED															GEL	1000				
LOST CIRCULATION		TOTAL 9246 FT.		CUM. HRS. RUN 5 1/4															WT. MI.	1500				
CASING		WT OF STRING 220.00 LBS.		CONDITION 12 1/2																				
WAITING ON CEMENT		DRILLER Roy Chambers		WEATHER CONDITIONS																				
HEADING UP & DRILLING OUT		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD						
MISC. ELLANEOUS																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
SUB TOTAL		93 STANDS DP 8693.57 FT.		Drilling or Core Bit No. 70		9246													WEIGHT	T			10.15	
DAYWORK HOURS		1 SNGLS. DP 31.38 FT.		TYPE 00V															VISC.	T			240	
TOTAL HOURS 8 8 8		5 9" OD 142.36 FT.		SIZE 12 1/4															W.L.C.C.	R				
WIRE LINE RECORD		8 8" OD 238.33 FT.		NOZZ. SIZE 3/22															FLTR. CK.	I				
		3 RMR BOD 89.27 FT.		SERIAL No. EE080															pH				9.5	
		1 STB BOD 13.80 FT.		DEPTH IN 9246															SD. CONT.					
		2 SUB 3.91 FT.		DEPTH OUT 9246															MUD & CHEMICALS ADDED					
		1 BIT 4.00 FT.		FT. DRILLED															TYPE	AMT.	TYPE	AMT.		
		JARS 10.45 FT.		FT. REAMED																				
		Kelly Down 12.00 FT.		FT. CORED																				
		TOTAL 9246 FT.		CUM. HRS. RUN																				
		WT OF STRING 220.00 LBS.		CONDITION																				
		DRILLER Frank Schmidt		WEATHER CONDITIONS																				
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD						
																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
		93 STANDS DP 8693.57 FT.		Drilling or Core Bit No. 70		9246		19		9265										WEIGHT	10.1	10.1	10.1	10.1
		1 SNGLS. DP 31.38 FT.		TYPE 00V																VISC.	315	245	240	190
		5 9" OD 142.36 FT.		SIZE 12 1/4																W.L.C.C.	6.8	6.4	6.5	7.0
		8 8" OD 238.33 FT.		NOZZ. SIZE 3/22																FLTR. CK.	2/32	2/32	2/32	2/32
		3 RMR BOD 89.27 FT.		SERIAL No. EE080																pH	9.5	9.3	9.5	9.5
		1 STB BOD 13.80 FT.		DEPTH IN 9246																SD. CONT.				
		2 SUB 3.91 FT.		DEPTH OUT 9246																MUD & CHEMICALS ADDED				
		1 BIT 4.00 FT.		FT. DRILLED 19																TYPE	AMT.	TYPE	AMT.	
		JARS 10.45 FT.		FT. REAMED																				
		Kelly Down 12.00 FT.		FT. CORED																				
		TOTAL 9265 FT.		CUM. HRS. RUN 6 3/4																				
		WT OF STRING 220.00 LBS.		CONDITION																				
		DRILLER P. Paquette		WEATHER CONDITIONS																				
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD						
																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
		93 STANDS DP 8693.57 FT.		Drilling or Core Bit No. 70		9246		19		9265										WEIGHT	10.1	10.1	10.1	10.1
		1 SNGLS. DP 31.38 FT.		TYPE 00V																VISC.	315	245	240	190
		5 9" OD 142.36 FT.		SIZE 12 1/4																W.L.C.C.	6.8	6.4	6.5	7.0
		8 8" OD 238.33 FT.		NOZZ. SIZE 3/22																FLTR. CK.	2/32	2/32	2/32	2/32
		3 RMR BOD 89.27 FT.		SERIAL No. EE080																pH	9.5	9.3	9.5	9.5
		1 STB BOD 13.80 FT.		DEPTH IN 9246																SD. CONT.				
		2 SUB 3.91 FT.		DEPTH OUT 9246																MUD & CHEMICALS ADDED				
		1 BIT 4.00 FT.		FT. DRILLED 19																TYPE	AMT.	TYPE	AMT.	
		JARS 10.45 FT.		FT. REAMED																				
		Kelly Down 12.00 FT.		FT. CORED																				
		TOTAL 9265 FT.		CUM. HRS. RUN 6 3/4																				
		WT OF STRING 220.00 LBS.		CONDITION																				
		DRILLER P. Paquette		WEATHER CONDITIONS																				
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD						
																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
		93 STANDS DP 8693.57 FT.		Drilling or Core Bit No. 70		9246		19		9265										WEIGHT	10.1	10.1	10.1	10.1
		1 SNGLS. DP 31.38 FT.		TYPE 00V																VISC.	315	245	240	190
		5 9" OD 142.36 FT.		SIZE 12 1/4																W.L.C.C.	6.8	6.4	6.5	7.0
		8 8" OD 238.33 FT.		NOZZ. SIZE 3/22																FLTR. CK.	2/32	2/32	2/32	2/32
		3 RMR BOD 89.27 FT.		SERIAL No. EE080																pH	9.5	9.3	9.5	9.5
		1 STB BOD 13.80 FT.		DEPTH IN 9246																SD. CONT.				
		2 SUB 3.91 FT.		DEPTH OUT 9246																MUD & CHEMICALS ADDED				
		1 BIT 4.00 FT.		FT. DRILLED 19																TYPE	AMT.	TYPE	AMT.	
		JARS 10.45 FT.		FT. REAMED																				
		Kelly Down 12.00 FT.		FT. CORED																				
		TOTAL 9265 FT.		CUM. HRS. RUN 6 3/4																				
		WT OF STRING 220.00 LBS.		CONDITION																				
		DRILLER P. Paquette		WEATHER CONDITIONS																				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION AMOCO McPHERSON		No. B-25		PROVINCE N. W. T.				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. #2	DRILL PIPE STRING No. SIZE 2 5"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. NAT 10-P-130 2. G-D GXR		CASING & LINER RECORD 13 3/8 68555 0 1524	DEPTH SET FROM TO 1524	TYPE OF CEMENT 1570	CEMENT USED 2% CaCl₂	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL FUSHER <i>[Signature]</i>										

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	7 3/4	5 3/4		93	STANDS DP 8692.57 FT.	Drilling or Core Bit No. 68													TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING	1 1/2	4 3/4		5	SNGLS. DP FT. TYPE	ODVJ	7186	21		9217		95	25						WEIGHT	10.1	10.1	10.1	10.1										
RIG MAINTENANCE	1/4	1/4	1/4	8	D.C. 9" OD 142.36 FT.	SIZE 12 1/4													VISC.	180	180	170	195										
RIG REPAIRS	1/4	1/4	1/2	3	RMR BOD 6 3/4 OD 89.27 FT.	SERIAL No. HR468													W.L.C.C.	7.5	7.5	7.4	7.4										
SLIP LINC				1	STB BOD 5 5/8 OD 13.80 FT.	DEPTH IN 9171													FLTR. CK.	2/32	2/32	2/32	2/32										
HOLE SURVEYS	1/2			2	SUBS 5/8 OD 3.91 FT.	DEPTH OUT 9171													pH	9.5	9.5	9.5	9.5										
CONDITIONING MUD				1	BIT 5/8 B. 4.00 FT.	FT. DRILLED 46													SD. CONT.														
CONDITIONING HOLE					JARS 10.45 FT.	FT. REAMED 46													MUD & CHEMICALS ADDED														
Reaming & Cleaning To Bottom	1 1/2				Kelly Down 16.00 FT.	FT. CORED													TYPE	AMT.	TYPE	AMT.											
WORKING OR STUCK PIPE					TOTAL 9217 FT.	CUM. HRS. RUN 12 1/4													CAUSTIC	500													
					WT OF STRING 220,000 LBS.	CONDITION DRLG.													GEL	1500													
					DRILLER <i>[Signature]</i>																												
					WEATHER CONDITIONS <i>[Signature]</i>																												

WIRE LINE RECORD				DAY TOUR										EVENING TOUR																				
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	FEET CUT OFF	PRESENT LENGTH	TON MI. OF TRIPS SINCE LAST CUT	CUMULATIVE TON MI. OF TRIPS	No. OF LINES FROM SPJD	CUMULATIVE ROTATING HRS.	DAYS SINCE LAST ACCNT.	DRILLER ACCNT. FREE DAYS	MORNING TOUR	DAY TOUR	EVENING TOUR	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	10	3/8	45	90				98	159					41	93	STANDS DP 8693.57 FT.	Drilling or Core Bit No. 69													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
															3	SNGLS. DP FT. TYPE	DSJ	9235	2		9237		75	20										
															8	D.C. 9" OD 142.36 FT.	SIZE 12 1/4																	
															3	RMR BOD 6 3/4 OD 89.27 FT.	SERIAL No. 339068																	
															1	STB BOD 5 5/8 OD 13.80 FT.	DEPTH IN 9235																	
															2	SUBS 5/8 OD 3.91 FT.	DEPTH OUT 9235																	
															1	BIT 5/8 B. 4.00 FT.	FT. DRILLED 2																	
																JARS 10.45 FT.	FT. REAMED 2																	
																Kelly Down 34. FT.	FT. CORED																	
																TOTAL 9237 FT.	CUM. HRS. RUN 1																	
																WT OF STRING 220,000 LBS.	CONDITION DRLG.																	
																DRILLER <i>[Signature]</i>																		
																WEATHER CONDITIONS																		

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL LTD		LSD.		SEC.		TWP.		RGE.		W.		UNION AMOCO McPHERSON		B-25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		OD		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		DEPTH SET	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 3/4"		6 1/2		4 1/2 IF		E		No. MANUFACTURER TYPE		1. NAI 10-4-130		2. G-D. GXR	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		No.		MANUFACTURER		TYPE		No.		MANUFACTURER		TYPE		No.	
Marked Chamberlain		H. Roseth		1.		NAI		10-4-130		2.		G-D.		GXR		3.	
TIME DISTRIBUTION—HOURS		Morn		Day		Eve		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
DRILLING		7 1/4		3 1/4		4 1/2		92		STANDS DP 85984 FT.		Drilling or Core Bit No. 67		9132		27	
TRIPPING		3 1/2		2 1/2		1/2		1		SNGLS. DP 3133 FT.		TYPE 355		9159		27	
RIG MAINTENANCE		1/4		1/4		1/2		2		D.C. 9" OD 14236 FT.		SIZE 12 1/4					
RIG REPAIRS								3		8" OD 23833 FT.		NOZZ. SIZE 3/22					
HOLE SURVEYS		1/2		1/2		1/2		4		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 621315					
CONDITIONING MUD								1		STB BOD 5" OD 1380 FT.		DEPTH IN 9091					
CONDITIONING HOLE								2		SUB 8" OD 391 FT.		DEPTH OUT 9091					
Reaming & Cleaning To Bottom		1/2						1		BIT 5 1/8" 4.00 FT.		FT. DRILLED 68					
WORKING OR STUCK PIPE								1		JARS 10.45 FT.		FT. REAMED 68					
FISHING								2		Kelly Down 20.00 FT.		FT. CORED					
LOST CIRCULATION								1		TOTAL 9159 FT.		CUM. HRS. RUN 19 1/4					
CASING								2		WT OF STRING 218,000 LBS.		CONDITION DRLG					
WAITING ON CEMENT								1		DRILLER		Roe Chamberlain					
HEADING UP & DRILLING OUT								2		WEATHER CONDITIONS		Mild					
MISC. ELANEOUS								1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
SUB TOTAL								2		STANDS DP 85984 FT.		Drilling or Core Bit No. 67		9159		12	
DAYWORK HOURS								1		SNGLS. DP 3133 FT.		TYPE 355		9171		12	
TOTAL HOURS		8		8		8		2		D.C. 9" OD 14236 FT.		SIZE 12 1/4					
WIRE LINE RECORD								3		8" OD 23833 FT.		NOZZ. SIZE 3/22					
REEL No.								4		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 621315					
No. OF LINES		10		SIZE 1 3/8				1		STB BOD 5" OD 1380 FT.		DEPTH IN 9091					
FEET SLIPPED								2		SUB 8" OD 391 FT.		DEPTH OUT 9091					
FEET CUT OFF								1		BIT 5 1/8" 4.00 FT.		FT. DRILLED 68					
PRESENT LENGTH								2		JARS 10.45 FT.		FT. REAMED 68					
TON MI. OF TRIPS SINCE LAST CUT								1		Kelly Down 20.00 FT.		FT. CORED					
CUMULATIVE ROTATING HRS.								2		TOTAL 9171 FT.		CUM. HRS. RUN 22 1/2					
DAYS SINCE LAST ACCNT.								1		WT OF STRING 218,000 LBS.		CONDITION					
DRILLER ACCNT. FREE DAYS								2		DRILLER		Frank Schmitt					
MORNING TOUR								1		WEATHER CONDITIONS							
DAY TOUR								2		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
EVENING TOUR								1		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								2		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								1		D.C. 9" OD 14236 FT.		SIZE 3/22					
								2		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								1		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					
								2		STB BOD 5" OD 1380 FT.		DEPTH IN 9171					
								1		SUB 8" OD 391 FT.		DEPTH OUT 9171					
								2		BIT 5 1/8" 4.00 FT.		FT. DRILLED 15					
								1		JARS 10.45 FT.		FT. REAMED 15					
								2		Kelly Down 16.00 FT.		FT. CORED					
								1		TOTAL 9186 FT.		CUM. HRS. RUN 4 1/2					
								2		WT OF STRING 220,000 LBS.		CONDITION					
								1		DRILLER		P. P. Pappalardo					
								2		WEATHER CONDITIONS							
								1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
								2		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								1		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								2		D.C. 9" OD 14236 FT.		SIZE 3/22					
								1		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								2		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					
								1		STB BOD 5" OD 1380 FT.		DEPTH IN 9171					
								2		SUB 8" OD 391 FT.		DEPTH OUT 9171					
								1		BIT 5 1/8" 4.00 FT.		FT. DRILLED 15					
								2		JARS 10.45 FT.		FT. REAMED 15					
								1		Kelly Down 16.00 FT.		FT. CORED					
								2		TOTAL 9186 FT.		CUM. HRS. RUN 4 1/2					
								1		WT OF STRING 220,000 LBS.		CONDITION					
								2		DRILLER		P. P. Pappalardo					
								1		WEATHER CONDITIONS							
								2		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
								1		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								2		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								1		D.C. 9" OD 14236 FT.		SIZE 3/22					
								2		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								1		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					
								2		STB BOD 5" OD 1380 FT.		DEPTH IN 9171					
								1		SUB 8" OD 391 FT.		DEPTH OUT 9171					
								2		BIT 5 1/8" 4.00 FT.		FT. DRILLED 15					
								1		JARS 10.45 FT.		FT. REAMED 15					
								2		Kelly Down 16.00 FT.		FT. CORED					
								1		TOTAL 9186 FT.		CUM. HRS. RUN 4 1/2					
								2		WT OF STRING 220,000 LBS.		CONDITION					
								1		DRILLER		P. P. Pappalardo					
								2		WEATHER CONDITIONS							
								1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
								2		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								1		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								2		D.C. 9" OD 14236 FT.		SIZE 3/22					
								1		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								2		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					
								1		STB BOD 5" OD 1380 FT.		DEPTH IN 9171					
								2		SUB 8" OD 391 FT.		DEPTH OUT 9171					
								1		BIT 5 1/8" 4.00 FT.		FT. DRILLED 15					
								2		JARS 10.45 FT.		FT. REAMED 15					
								1		Kelly Down 16.00 FT.		FT. CORED					
								2		TOTAL 9186 FT.		CUM. HRS. RUN 4 1/2					
								1		WT OF STRING 220,000 LBS.		CONDITION					
								2		DRILLER		P. P. Pappalardo					
								1		WEATHER CONDITIONS							
								2		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
								1		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								2		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								1		D.C. 9" OD 14236 FT.		SIZE 3/22					
								2		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								1		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					
								2		STB BOD 5" OD 1380 FT.		DEPTH IN 9171					
								1		SUB 8" OD 391 FT.		DEPTH OUT 9171					
								2		BIT 5 1/8" 4.00 FT.		FT. DRILLED 15					
								1		JARS 10.45 FT.		FT. REAMED 15					
								2		Kelly Down 16.00 FT.		FT. CORED					
								1		TOTAL 9186 FT.		CUM. HRS. RUN 4 1/2					
								2		WT OF STRING 220,000 LBS.		CONDITION					
								1		DRILLER		P. P. Pappalardo					
								2		WEATHER CONDITIONS							
								1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
								2		STANDS DP 85984 FT.		Drilling or Core Bit No. 68		9171		15	
								1		SNGLS. DP 6258 FT.		TYPE 0042		9186		15	
								2		D.C. 9" OD 14236 FT.		SIZE 3/22					
								1		8" OD 23833 FT.		NOZZ. SIZE 12 1/4					
								2		RMR BOD 6 3/4" OD 8927 FT.		SERIAL No. 48468					

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FORM D1-1.67

REPORT No. 96

DATE: APRIL 12-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL LTD		UNION		Amoco		McPherson		B-25		N.-W.-T.															
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		5'		6 1/2" OD		E		No. MANUFACTURER TYPE		1. NAT 10P130		2. G-D G-XR		133868555		0 1524		OILWELL		1570		2% BACK 2	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
Charles McPherson		H. Roseth																							
TIME DISTRIBUTION—HOURS																									
Morn		Day		Eve																					
DRILLING		7 3/4		7 3/4		7																			
TRIPPING																									
RIG MAINTENANCE		1/4		1/4																					
RIG REPAIRS																									
HOLE SURVEYS																									
CONDITIONING MUD																									
CONDITIONING HOLE																									
Reaming & Cleaning To Bottom																									
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELANEOUS																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		8		8		8																			
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE		1 3/4																			
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH		1394																							
TON MI. or TRIP SINCE LAST CUT		514																							
CUMULATIVE TON MI. or TRIPS		29205																							
No. OF DAYS FROM SPUD		95																							
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.		157																							
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR		124																							
DAY TOUR																									
EVENING TOUR																									
FORM D1-1.67																									

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

95

DATE:

APRIL 11 - 72

CONSERVATION BOARD COPY

FORM D1-1.67

CONSERVATION BOARD COPY

FORM: DI-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2190

REPORT No. 93

DATE: APRIL 9-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																		
UNION OIL LTD		BLOCK # 25							UNION AMOCO McPHERSON	B-25	N-W-T																		
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER														
PETER BAWDEN DRILLING SERVICES LTD.		2		6 1/2		E				1 3/4	68255	1524	OILWELL	1570	270 CAL C														
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD. I-F				No. MANUFACTURER TYPE																					
		Tom Cunningham						1. NAT 10P130																					
								2. G-D G-X-R																					
								3.																					
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		88 STANDS DP 8224.55 FT.		Drilling or Core Bit No. 65		8760		35				8795				85		40150		PUMP No. 1		1700		63/4		60		73/4	
DRILLING 7 3/4 7 3/4 3 1/4		1 SNGLS. DP 30.44 FT.		TYPE 00V																PUMP No. 2									
TRIPPING		5 9" OD 147.36 FT.		SIZE 12 1/4																									
RIG MAINTENANCE 1/4 1/4		8 8" OD 138.33 FT.		NOZZ. SIZE 3-22																									
RIG REPAIRS		3 RMR BODY 6 3/4 OD 89.27 FT.		SERIAL No. ED638																									
HOLE SURVEYS		1 STB BODY 5 1/2 OD 13.80 FT.		DEPTH IN 8746																									
CONDITIONING MJD		2 SUBS 3/4 OD 3.91 FT.		DEPTH OUT																									
CONDITIONING HOLE		1 BIT 5/8 B. 4.00 FT.		FT. DRILLED 49																									
Reaming & cleaning To Bottom		JARS 10.45 FT.		FT. REAMED																									
WORKING OR STUCK PIPE		Kelly Down 32.00 FT.		FT. CORED																									
FISHING		TOTAL 8795 FT.		CUM. HRS. RUN 10 1/4																									
LOST CIRCULATION		WT OF STRING 210 LBS.		CONDITION IN																									
CASING		DRILLER Chuck Palle																											
WAITING ON CEMENT		WEATHER CONDITIONS CLEAR -18°																											
HEADING UP DRILLING OUT																													
MISC. ELANEUS																													
SUB TOTAL																													
DAYWORK HOURS																													
TOTAL HOURS 8 8 8																													
WIRE LINE RECORD																													
REEL No.																													
No. OF LINES 10 SIZE 1 3/8																													
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON MI. or TRIPS SINCE LAST CUT																													
CUMULATIVE TON MI. or TRIPS																													
No. OF DAYS FROM SPUD 92																													
CUMULATIVE ROTATING HRS.																													
DAYS SINCE LAST ACCNT.																													
DRILLER ACCNT. FREE DAYS																													
MORNING TOUR 121																													
DAY TOUR																													
EVENING TOUR																													

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD	LOCATION Block # 25	SEC. W	TWP. RGE	WELL NAME UNION AMOCO McPHERSON	No. B-25	PROVINCE N-W-T
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 6 1/2	TOOL JOINT CD	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. NAT 10P130 2. G-D G-X-R 3.	CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER 13 3/8 68255 0 1524 OILWELL 1570 2 90 CAIC
OPERATOR'S REPRESENTATIVE <i>Tom Pennington</i>		CONTRACTOR'S TOOL PUSHER <i>Tom Pennington</i>				

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY										BIT RECORD										FORMATION (SHOW CORE RECOVERY)										MUD RECORD									
Morn	Day	Eve		No.	STANDS DP	FT.	Drilling or Core Bit No.	TYPE	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.																			
DRILLING	7 3/4	4 3/4	2 1/2	87	STANDS DP	8131.26	FT.	Drilling or Core Bit No.	64	8691	35	8726	FORMATION (SHOW CORE RECOVERY)	80	50																												
TRIPPING		1 1/2	5	2	SNGLS. DP	62.00	FT.	TYPE	X-U																																		
RIG MAINTENANCE	1/4	1/4		5	D.C. 9" OD	142.36	FT.	SIZE	12 1/4																																		
RIG REPAIRS		1/4		8	D.C. 8" OD	238.33	FT.	NOZZ. SIZE	3-22																																		
HOLE SURVEYS		1/4		3	RMR BOD 6 1/2" OD	89.27	FT.	SERIAL No.	FA424																																		
CONDITIONING MUD				1	STB BOD 5 1/2" OD	13.80	FT.	DEPTH IN	8656																																		
CONDITIONING HOLE				2	SUB 5/8" OD	3.91	FT.	DEPTH OUT																																			
Reaming & Cleaning To Bottom			1/2	1	BIT 5/8" B.S.	4.00	FT.	FT. DRILLED	70																																		
WORKING OR STUCK PIPE					JARS	10.45	FT.	FT. REAMED																																			
					Kelly Down	25.00	FT.	FT. CORED																																			
					TOTAL	8726	FT.	CUM. HRS. RUN	15 1/2																																		
					WT OF STRING	210 M	LBS.	CONDITION	IN																																		
					DRILLER	<i>Chuck Pallo</i>																																					
					WEATHER CONDITIONS	<i>SNOW + COLD</i>																																					

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY										BIT RECORD										FORMATION (SHOW CORE RECOVERY)										MUD RECORD									
Morn	Day	Eve		No.	STANDS DP	FT.	Drilling or Core Bit No.	TYPE	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.																			
FISHING				88	STANDS DP	8224.55	FT.	Drilling or Core Bit No.	64	8726	20	8746	FORMATION (SHOW CORE RECOVERY)	80	45																												
LOST CIRCULATION				5	SNGLS. DP	142.36	FT.	TYPE	X-U																																		
CASING				8	D.C. 9" OD	142.36	FT.	SIZE	12 1/4																																		
WAITING ON CEMENT				3	RMR BOD 6 1/2" OD	89.27	FT.	SERIAL No.	FA424																																		
HEADING UP & DRILLING OUT				1	STB BOD 5 1/2" OD	13.80	FT.	DEPTH IN	8656																																		
MISC. ELANEUS				2	SUB 5/8" OD	3.91	FT.	DEPTH OUT	8746																																		
SUB TOTAL				1	BIT 5/8" B.S.	4.00	FT.	FT. DRILLED	90																																		
DAYWORK HOURS					JARS	10.45	FT.	FT. REAMED																																			
TOTAL HOURS	8	8	3		Kelly Down	14.00	FT.	FT. CORED																																			
					TOTAL	8746	FT.	CUM. HRS. RUN	20 1/4																																		
					WT OF STRING	205,000	LBS.	CONDITION	6 1/2																																		
					DRILLER	<i>Ron Chambers</i>																																					
					WEATHER CONDITIONS	<i>Cold + Snowing</i>																																					

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY										BIT RECORD										FORMATION (SHOW CORE RECOVERY)										MUD RECORD									
Morn	Day	Eve		No.	STANDS DP	FT.	Drilling or Core Bit No.	TYPE	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.																			
REEL No.				66	STANDS DP	8224.55	FT.	Drilling or Core Bit No.	65	8746	14	8760	FORMATION (SHOW CORE RECOVERY)	85	40																												
No. OF LINES	10	SIZE	3/4	5	SNGLS. DP	142.36	FT.	TYPE	20V																																		
FEET SLIPPED				8	D.C. 9" OD	142.36	FT.	SIZE	12 1/4																																		
FEET CUT OFF				3	RMR BOD 6 1/2" OD	89.27	FT.	SERIAL No.	ED638																																		
PRESENT LENGTH	1998			1	STB BOD 5 1/2" OD	13.80	FT.	DEPTH IN	8746																																		
TON MI. OF TRIPS SINCE LAST CUT	275			2	SUB 5/8" OD	3.91	FT.	DEPTH OUT																																			
CUMULATIVE TON MI. OF TRIPS	236426			1	BIT 5/8" B.S.	4.00	FT.	FT. DRILLED	14																																		
No. OF DAYS FROM SPUD	91				JARS	10.45	FT.	FT. REAMED																																			
DAYS SINCE LAST ACCDNT.	154				Kelly Down	23.00	FT.	FT. CORED																																			
DRILLER ACCDNT. FREE DAYS					TOTAL	8760	FT.	CUM. HRS. RUN	2 1/2																																		
MORNING TOUR	120				WT OF STRING	210,000	LBS.	CONDITION																																			
DAY TOUR					DRILLER	<i>Frank Schmidt</i>																																					
EVENING TOUR					WEATHER CONDITIONS																																						

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No. 90

DATE: APRIL 6 - 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
UNION OIL LTD		BLOCK # B-25						UNION AMOCO McPHERSON		B-25	N-W-T				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	G ¹ / ₂ OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2				E				13 3/8	18255	0 1524	OILWELL	1570	270 CALC
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD. I-F		E		No. MANUFACTURER TYPE							
		Tom Cunningham						1. NAT 10P130							
								2. G-D G-X-R							
								3.							

TIME DISTRIBUTION—HOURS				MORNING TOUR												DAY TOUR												EVENING TOUR											
				No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD																		
					STANDS DP	FT.	Drilling or Core Bit No.														TIME	1st HR.	3rd HR.	5th HR.	7th HR.														
DRILLING				5	9" OD	142.36 FT.	SIZE	12 1/2	8548	9		8557			85	25/40						WEIGHT	10.3	10.3	10.3	10.3													
TRIPPING				8	8" OD	238.33 FT.	NOZZ. SIZE	3-22														VISC.	142	145	175	175													
RIG MAINTENANCE				3	RMR BOD 6 3/4 OD	89.27 FT.	SERIAL No.	10782														W.L.C.C.	7.2	7.2	7.2	7.2													
RIG REPAIRS				1	STB BOD 5 5/8 OD	1380 FT.	DEPTH IN	8548														FLTR. CK.	2/32	2/32	2/32	2/32													
HOLE SURVEYS				2	SUB 5/8 OD	3.91 FT.	DEPTH OUT															PH	9.5	9.5	9.5	9.5													
CONDITIONING MUD				1	BIT SUB B.	4.00 FT.	FT. DRILLED	9														MUD & CHEMICALS ADDED																	
CONDITIONING HOLE					JARS	10.45 FT.	FT. REAMED															TYPE	AMT.	TYPE	AMT.														
Reaming & Cleaning To Bottom					Kelly Down	39.00 FT.	FT. CORED																																
WORKING OR STUCK PIPE					TOTAL	8557 FT.	CUM. HRS. RUN	13 1/4																															
FISHING					WT OF STRING	212 M LBS.	CONDITION	IN																															
LOST CIRCULATION					DRILLER	Chuck Palle																																	
CASING					WEATHER CONDITIONS	SNOWING																																	
WAITING ON CEMENT					No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD																	
HEADING UP & DRILLING OUT				5	9" OD	142.36 FT.	SIZE	12 1/2	8557	36		8593			85	40						TIME	1st HR.	3rd HR.	5th HR.	7th HR.													
MISC. ELLANEOUS				8	8" OD	238.33 FT.	NOZZ. SIZE	3-22														WEIGHT	10.3	10.3	10.3	10.3													
SUB TOTAL				3	RMR BOD 6 3/4 OD	89.27 FT.	SERIAL No.	10782														VISC.	142	145	175	175													
DAYWORK HOURS				7	STB BOD 5 5/8 OD	13.80 FT.	DEPTH IN	8548														W.L.C.C.	7.2	7.2	7.2	7.2													
TOTAL HOURS				2	SUB 5/8 OD	3.91 FT.	DEPTH OUT															FLTR. CK.	2/32	2/32	2/32	2/32													
WIRE LINE RECORD				1	BIT SUB B.	4.00 FT.	FT. DRILLED	45														PH	9.5	9.5	9.5	9.5													
REEL No.					JARS	10.45 FT.	FT. REAMED															MUD & CHEMICALS ADDED																	
No. OF LINES					Kelly Down		FT. CORED															TYPE	AMT.	TYPE	AMT.														
FEET SLIPPED					TOTAL		FT.																																
FEET CUT OFF					WT OF STRING		LBS.																																
PRESENT LENGTH					DRILLER	Roy Chamber																																	
TON MI. OF TRIPS SINCE LAST CUT					WEATHER CONDITIONS	Cold & Windy																																	
CUMULATIVE TON MI. OF TRIPS					No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD																	
No. OF DAYS FROM SPUD					26	STANDS DP	80292	FT.	Drilling or Core Bit No.	63												TIME	1st HR.	3rd HR.	5th HR.	7th HR.													
CUMULATIVE ROTATING HRS.					2	SINGLS. DP	61.35	FT.	TYPE	XV												WEIGHT	10.2	10.2	10.2	10.2													
DAYS SINCE LAST ACCONT.					5	D.C. 9" OD	142.36	FT.	SIZE	12 1/2												VISC.	145	145	135	170													
DRILLER ACCONT. FREE DAYS					8	8" OD	238.33	FT.	NOZZ. SIZE	3-22												W.L.C.C.	7.2	7.2	7.3	7.3													
MORNING TOUR					3	RMR BOD 6 3/4 OD	89.27	FT.	SERIAL No.	10782												FLTR. CK.	2/32	2/32	2/32	2/32													
DAY TOUR					1	STB BOD 5 5/8 OD	13.80	FT.	DEPTH IN	8548												PH	9.5	9.5	9.5	9.5													
EVENING TOUR					2	SUB 5/8 OD	3.91	FT.	DEPTH OUT													SD. CONT.																	
					1	BIT SUB B.	4.00	FT.	FT. DRILLED	80												MUD & CHEMICALS ADDED																	
					JARS	10.45	FT.	FT. REAMED														TYPE	AMT.	TYPE	AMT.														
					Kelly Down		FT. CORED																																
					TOTAL		FT.																																
					WT OF STRING	21200	LBS.	CONDITION																															
					DRILLER	Tom Schmidt																																	
					WEATHER CONDITIONS																																		

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
UNION OIL LTD.		BLOCK # B-25												UNION AMOCO McPHERSEN		B-25		N.W.T.									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER								
PETER BAWDEN DRILLING SERVICES LTD.		2	1 3/8	TYPE THD. I F	E						13 7/8	8555	0	1524	DIL WELL	1520	2 9/16 CAL										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																									
Tom Cunningham																											
TIME DISTRIBUTION—HOURS																											
Morn Day Eve																											
DRILLING		8 7/4 7																									
TRIPPING																											
RIG MAINTENANCE		1/4 1/4																									
RIG REPAIRS																											
HOLE SURVEYS																											
CONDITIONING MUD																											
CONDITIONING HOLE		3/4																									
Reaming & Cleaning To Bottom																											
WORKING OR STUCK PIPE																											
FISHING																											
LOST CIRCULATION																											
CASING																											
WAITING ON CEMENT																											
HEADING UP & DRILLING OUT																											
MISC. ELLENEOUS																											
SUB TOTAL																											
DAYWORK HOURS																											
TOTAL HOURS		8 8 8																									
WIRE LINE RECORD																											
REEL No.																											
No. OF LINES		SIZE																									
FEET SLIPPED																											
FEET CUT OFF																											
PRESENT LENGTH																											
TON MI. or TRIPS SINCE LAST CUT																											
CUMULATIVE TON MI. or TRIPS																											
No. OF DAYS FROM SPUD																											
CUMULATIVE ROTATING HRS.																											
DAYS SINCE LAST ACCDNT.																											
DRILLER ACCDNT. FREE DAYS																											
MORNING TOUR																											
DAY TOUR		117																									
EVENING TOUR																											
No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
85 STANDS DP 7948.24 FT.		Drilling or Core Bit No. 62		8495		27		8522		85		45		85		45		1500		6"		145		1		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
1 SNGLS. DP 30.57 FT.		TYPE XV		8495		27		8522		85		45		85		45		1500		6"		145		1		WEIGHT 10.3 10.3 10.3 10.3	
5 9" OD 142.36 FT.		SIZE 12 1/4		8495		27		8522		85		45		85		45		1500		6"		145		1		VISC. 160 143 150 170	
8 8" OD 238.33 FT.		NOZZ. SIZE 3/22		8495		27		8522		85		45		85		45		1500		6"		145		1		W.L.C.C. 7.2 7.0 7.2 7.0	
3 RMR BODY 89.27 FT.		SERIAL No. TE624		8495		27		8522		85		45		85		45		1500		6"		145		1		FLTR. CK. 132 132 132 132	
1 STB BODY 13.80 FT.		DEPTH IN 8445		8495		27		8522		85		45		85		45		1500		6"		145		1		PH 9.5 9.5 9.5 9.5	
2 SUBS 3.91 FT.		DEPTH OUT 8445		8495		27		8522		85		45		85		45		1500		6"		145		1		SD. CONT.	
1 BIT 4.00 FT.		FT. DRILLED 77		8495		27		8522		85		45		85		45		1500		6"		145		1		MUD & CHEMICALS ADDED	
JARS 10.45 FT.		FT. REAMED		8495		27		8522		85		45		85		45		1500		6"		145		1		TYPE AMT. TYPE AMT.	
Kelly Down 35.00 FT.		FT. CORED		8495		27		8522		85		45		85		45		1500		6"		145		1		CAUSTIC 50°	
TOTAL 8522 FT.		CUM. HRS. RUN 19 1/2		8495		27		8522		85		45		85		45		1500		6"		145		1		WATER	
WT OF STRING 212M LBS.		CONDITION IN		8495		27		8522		85		45		85		45		1500		6"		145		1			
DRILLER 6 buck Palleo				8495		27		8522		85		45		85		45		1500		6"		145		1			
WEATHER CONDITIONS MILD				8495		27		8522		85		45		85		45		1500		6"		145		1			
No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
85 STANDS DP 7948.24 FT.		Drilling or Core Bit No. 62		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
2 SNGLS. DP 61.87 FT.		TYPE XV		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		WEIGHT 9.3 9.3 9.3 9.3	
5 9" OD 142.36 FT.		SIZE 12 1/4		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		VISC. 170 175 175 175	
8 8" OD 238.33 FT.		NOZZ. SIZE 3/22		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		W.L.C.C. 7.3 7.3 7.4 7.4	
3 RMR BODY 89.27 FT.		SERIAL No. TE624		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		FLTR. CK. 232 232 232 232	
1 STB BODY 13.80 FT.		DEPTH IN 8445		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		PH 9.5 9.5 9.5 9.5	
2 SUBS 3.91 FT.		DEPTH OUT 8548		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		SD. CONT.	
1 BIT 4.00 FT.		FT. DRILLED 103		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		MUD & CHEMICALS ADDED	
JARS 10.45 FT.		FT. REAMED		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		TYPE AMT. TYPE AMT.	
Kelly Down 30.00 FT.		FT. CORED		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		CAUSTIC 50°	
TOTAL 8548 FT.		CUM. HRS. RUN 26 1/2		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		GEL 1000°	
WT OF STRING 212,000		CONDITION 4-2-1		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4			
DRILLER Row Chambers				8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4			
WEATHER CONDITIONS MILD				8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4			
No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
85 STANDS DP 7948.24 FT.		Drilling or Core Bit No. 62		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
2 SNGLS. DP 61.87 FT.		TYPE XV		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		WEIGHT 9.3 9.3 9.3 9.3	
5 9" OD 142.36 FT.		SIZE 12 1/4		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		VISC. 170 175 175 175	
8 8" OD 238.33 FT.		NOZZ. SIZE 3/22		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		W.L.C.C. 7.3 7.3 7.4 7.4	
3 RMR BODY 89.27 FT.		SERIAL No. TE624		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		FLTR. CK. 232 232 232 232	
1 STB BODY 13.80 FT.		DEPTH IN 8445		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		PH 9.5 9.5 9.5 9.5	
2 SUBS 3.91 FT.		DEPTH OUT 8548		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		SD. CONT.	
1 BIT 4.00 FT.		FT. DRILLED 103		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		MUD & CHEMICALS ADDED	
JARS 10.45 FT.		FT. REAMED		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		TYPE AMT. TYPE AMT.	
Kelly Down 30.00 FT.		FT. CORED		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		CAUSTIC 50°	
TOTAL 8548 FT.		CUM. HRS. RUN 26 1/2		8522		26		8548		85		45		85		45		1850		6 3/4		62		7 3/4		GEL 1000°	
WT OF STRING 212,000		CONDITION 4-2-1		8522		26		8548		85		45		85													

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
UNION O-L LTD.							UNION AMOCO M-PHERSON								
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5	6 1/2	OD	E				13 3/4	6455	0	1574	OILWELL	1570 290 CAL.
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles P. Bawden		H. Roseth													
TIME DISTRIBUTION—HOURS															
Morn Day Eve															
DRILLING		8 5 1/2 3 1/4													
TRIPPING		1 3/4 3 1/2													
RIG MAINTENANCE		1 1/4 1/4													
RIG REPAIRS															
HOLE SURVEYS															
CONDITIONING MUD															
CONDITIONING HOLE		1/2													
Reaming & Cleaning To Bottom		1/2													
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8 8													
WIRE LINE RECORD															
REEL No.															
No. OF LINES 10 SIZE 1 3/8															
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON MI. OF TRIPS SINCE LAST CUT															
CUMULATIVE TON MI. OF TRIPS															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.															
DRILLER ACCONT. FREE DAYS															
MORNING TOUR															
DAY TOUR		116													
EVENING TOUR															
No. OF DAYS FROM SPUD															
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL LTD.		Block # B-25												UNION Amoco McPherson		B-25		N.W.T.							
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 3/4		6 1/2 OD		E						1524 OIL WELL		1570		2 9/16 C.P.L.							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
X Charles Phemister		H. P. P. P. P.																							
TIME DISTRIBUTION—HOURS																									
Morn		Day		Even																					
DRILLING		8 1/2		3 3/4																					
TRIPPING		2 1/2		3 1/4																					
RIG MAINTENANCE		1 1/4		1 1/4																					
RIG REPAIRS																									
HOLE SURVEYS		1 1/4																							
CONDITIONING MUD																									
CONDITIONING HOLE		1 1/2																							
Reaming & Cleaning To Bottom		1 1/4																							
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
SLIP PLANE																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		8		8		8																			
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES																									
SIZE																									
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. OF TRIPS SINCE LAST CUT																									
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FORM DI-1-67																									

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2190 27"

REPORT No. 86.

DATE: April 2 1977

CONSERVATION BOARD COPY

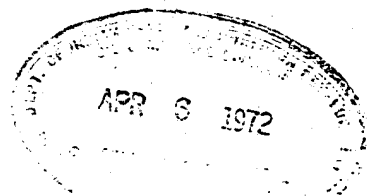
FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 7115 36

REPORT No. 85

DATE: Nov 1. 1972 Fols

MONTHLY SUMMARY



UNION AMOCO McPHERSON B-25

Lat. 67°14'00.78"N.

Long. 135°34'22.37"W.

March 1 - Day 53

Depth 6254', Ftg. 104'
Operation: Drilling 12-1/4" hole
M.W. 9.0, Visc. 61, W.L. 8.8, pH 9.3
Surveys - 6186' - 6°, 6233' - 5-1/2°
Formation - Imperial

March 2 - Day 54

Depth 6385', Ftg. 131'
Operation: Drilling 12-1/4" hole
M.W. 9.0, Visc. 60, W.L. 9.5, pH 9.0
Surveys - 6279' - 5-1/2°, 6342' - 4-1/2°
Formation - Imperial

March 3 - Day 55

Depth 6504', Ftg. 119'
Operation: Drilling 12-1/4" hole
M.W. 9.0, Visc. 52, W.L. 8.0, F.C. 2/32, pH 9
Surveys - 6395' - 5°, 6456' - 4-1/4°
Formation - Imperial

March 4 - Day 56

Depth 6652', Ftg. 148'
Operation: Drilling 12-1/4" hole
M.W. 9.0, Visc. 52, W.L. 8.0, pH 9.5
Surveys - 6527' - 4-1/4°, 6589' - 4°, 6652' - 4°
Formation - Imperial

March 5 - Day 57

Depth 6816', Ftg. 164'
Operation: Drilling 12-1/4" hole
M.W. 9.0, Visc. 51, W.L. 8.0, pH 9.5
Survey - 6746' - 3-1/2°
Formation - Imperial

March 6 - Day 58

Depth 6930', Ftg. 114'
Operation: Drilling 12-1/4" hole
M.W. 9.1, Visc. 50, W.L. 8.0, F.C. 2/32, pH 9
Survey - 6861' - 3-1/2°
Formation - Imperial

March 7 - Day 59

Depth 7100', Ftg. 170'
Operation: Drilling 12-1/4" hole
M.W. 9.1, Visc. 57, W.L. 8.6, FC 2/32, pH 9.0
Survey - 7058' - 4°
Formation - Imperial

March 8 - Day 60

Depth 7268', Ftg. 168'
Operation: Drilling 12-1/4" hole
M.W. 9.1, Visc. 66, W.L. 8.0, FC 2/32, pH 9.5
Formation - Imperial

March 9 - Day 61

Depth 7337', Ftg. 69
Operation: Working singles out of hole
M.W. 9.1, Visc. 61, W.L. 8.6, FC 2/32, pH 9.0
Surveys - 7276' - 3-1/2°, 7337' - 4°

March 10 - Day 62

Depth 7337', Ftg. 0
Operation: Reaming at 6120'
M.W. 9.2, Visc. 140, W.L. 7.2, FC 2/32, pH 8.5

March 11 - Day 63

Depth 7337', Ftg. 0
Operation: Tripping
M.W. 9.4, Visc. 108, W.L. 8.0, FC 2/32, pH 9.0

March 12 - Day 64

Depth 7337', Ftg. 0
Operation: Cleaning 12-1/4" hole
M.W. 9.4, Visc. 170, W.L. 7.2, FC 2/32, pH 9.0

March 13 - Day 65

Depth 7337', Ftg. 0
Operation: Cleaning 12-1/4" hole
M.W. 9.6, Visc. 220, W.L. 6.4, FC 2/32, Ph 9.5

March 14 - Day 66

Depth 7337', Ftg. 0
Operation: Tripping
M.W. 9.8, Visc. 180, W.L. 8.0, FC 2/32, pH 9.5

March 15 - Day 67

Depth 7337', Ftg. 0
Operation: Cleaning 12-1/4" hole
M.W. 9.8, Visc. 225, W.L. 9.0, pH 9.0

March 16 - Day 68

Depth 7341', Ftg. 4'
Operation: Drilling 12-1/4" hole
M.W. 10.0, Visc. 165, W.L. 8.4, pH 9.5
Formation - Imperial

March 17 - Day 69

Depth 7396', Ftg. 55'
Operation: Cleaning to bottom from 7216'
M.W. 10.6, Visc. 160, W.L. 8.0, pH 9.5
Formation - Imperial

March 18 - Day 70

Depth 7454', Ftg. 58'
Operation: Drilling 12-1/4" hole
M.W. 10.4, Visc. 159, W.L. 7.6, F.C.2/32, pH 9
Survey - 7444' - 4°
Formation - Imperial

March 19 - Day 71

Depth 7550', Ftg. 96'
Operation: Drilling 12-1/4" hole
M.W. 10.3, Visc. 160, W.L. 7.8, pH 9.5
Formation - Imperial

March 20 - Day 72

Depth 7614', Ftg. 64'
Operation: Drilling 12-1/4" hole
M.W. 10.4, Visc. 146, W.L. 8.0, FC 2/32, pH 9.5
Survey - 7550' - 5°
Formation - Imperial

March 21 - Day 73

Depth 7671', Ftg. 57'
Operation: Drilling 12-1/4" hole
M.W. 10.4, Visc. 145, W.L. 6.4, FC 2/32, pH 9.5
Survey - Misrun
Formation - Imperial

March 22 - Day 74

Depth 7747', Ftg. 76'
Operation: Tripping
M.W. 10.7, Visc. 155, W.L. 6.1, pH 9.5
Formation - Imperial

March 23 - Day 75

Depth 7822', Ftg. 75'
Operation: Drilling 12-1/4" hole
M.W. 10.7, Visc. 127, W.L. 6.4, FC 2/32, pH 9.5
Survey - 7747' - 4-1/2°
Formation - Imperial

March 24 - Day 76

Depth 7854', Ftg. 32'
Operation: Drilling 12-1/2" hole.
M.W. 10.7, Visc. 128, W.L. 7.2, pH 9.5
Formation - Imperial

March 25 - Day 77

Depth 7926', Ftg. 72'
Operation: Drilling 12-1/4" hole
M.W. 10.7, Visc. 141, W.L. 6.0, F.C. 2/32, pH 9.5

March 26 - Day 78

Depth 7964', Ftg. 38'
Operation: Drilling 12-1/4" hole
M.W. 10.7, Visc. 220, W.L. 6.6, pH 9.5

March 27 - Day 79

Depth 8010', Ftg. 46'
Operation: Tripping for bit
M.W. 10.6, Visc. 247, W.L. 5.4, pH 9.5
Survey - 8010' - 2-3/4°
Formation - Imperial

March 28 - Day 80

Depth 8075', Ftg. 65'
Operation: Drilling 12-1/4" hole
M.W. 10.7, Visc. 194, W.L. 5.6, FC 2/32, pH 9.5
Formation - Imperial

March 29 - Day 81

Depth 8124', Ftg. 49'
Operation: Drilling 12-1/4" hole
M.W. 10.2, Visc. 220, W.L. 6.2, pH 10
Survey - 8082' - 2-1/2°
Formation - Imperial

March 30 - Day 82

Depth 3177', Ftg. 53'
Operation: Drilling 12-1/4" hole
M.W. 10.9, Visc. 240, W.L. 6.2, FC 2/32, pH 9.7
Formation - Imperial

March 31 - Day 83

Depth 8235', Ftg. 58'
Operation: Drilling 12-1/4" hole
M.W. 10.6, Visc. 180, W.L. 5.8, pH 9.5

DAILY TOUR REPORT

CONSERV

LOCATION L.S.D. SEC. TWP. RGE. W. WELL NAME **UNION AMOCO McPHERSON** No. **B-25**

SERVICES LTD. RIG No. **2** DRILL PIPE STRING No. **25** TOOL JOINT **6 1/2 OD** DRILL PIPE GRADE **E** PUMPS

CONTRACTOR'S TOOL PUSHER **H. R. R. R.**

No.	MANUFACTURER	TYPE
1.	NAT	10P 130
2.		
3.	GO	CXR

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	TO	TYPE OF CEMENT
13 1/8	68.35	0	1524	OIL WELL

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.
82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59										
1	SINGLS. DP 3098 FT.	TYPE M44N	8202	33		8235		95	50	1550	6	145
5	9" OD 19236 FT.	SIZE 12 1/4										
8	8" OD 23833 FT.	NOZZ. SIZE 3-22										
3	RMR. BOD 6 3/4" OD 8925 FT.	SERIAL No. 389249										
	STB. BOD 5 1/2" OD 1380 FT.	DEPTH IN 8177										
2	SUB 4" OD 391 FT.	DEPTH OUT	1200	800	8		DRILL 12 1/4 HOLE					
1	BIT OR C.B. 4.00 FT.	FT. DRILLED 58										
	JARS 10.45 FT.	FT. REAMED										
	Kelly Down 3000 FT.	FT. CORED										
	TOTAL 8235 FT.	CUM. HRS. RUN 13										
	WT OF STRING 206 LBS.	CONDITION DRILL										
	DRILLER P. P. P. P.											
	WEATHER CONDITIONS											

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.
82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59										
2	SINGLS. DP 6227 FT.	TYPE M44N	8235	25		8260		90	50	1500	6	140
5	9" OD 14236 FT.	SIZE 12 1/4										
8	8" OD 23833 FT.	NOZZ. SIZE 3-22										
3	RMR. BOD 6 3/4" OD 8925 FT.	SERIAL No. 389249										
1	STB. BOD 5 1/2" OD 1380 FT.	DEPTH IN 8177										
2	SUB 5" OD 391 FT.	DEPTH OUT	8:00	10:00	2		DRILL 12 1/4 HOLE					
	BIT OR C.B. 4.00 FT.	FT. DRILLED 83	10:00	10:30			1/2 RIG SERV. B.O.P.					
	JARS 10.45 FT.	FT. REAMED	10:30	4:00	5		1/2 DRILL 12 1/4 HOLE					
	Kelly Down 24 FT.	FT. CORED										
	TOTAL 8260 FT.	CUM. HRS. RUN 20 1/2										
	WT OF STRING 206 LBS.	CONDITION IN										
	DRILLER Chuck Paller											
	WEATHER CONDITIONS MILD											

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.
82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59										
2	SINGLS. DP 6227 FT.	TYPE M44N	8260	14		8274		80	50	1500	6	140
5	9" OD 14236 FT.	SIZE 12 1/4										
8	8" OD 23833 FT.	NOZZ. SIZE 3/22										
3	RMR. BOD 6 3/4" OD 8925 FT.	SERIAL No. 389249										
1	STB. BOD 5 1/2" OD 1380 FT.	DEPTH IN 8177										
2	SUB 4" OD 391 FT.	DEPTH OUT 8274	1:00	4:15	1/4		DRILL 12 1/4" HOLE					
	BIT OR C.B. 4.00 FT.	FT. DRILLED 97	1:15	4:30	1/4		RIG SERV + B.O.P.					
	JARS 10.45 FT.	FT. REAMED	1:20	4:45	3 3/4		DRILL 12 1/4" HOLE					
	Kelly Down 38.00 FT.	FT. CORED	1:25	9:00	2 1/4		CIRC COND. HOLE PRIOR TO T.R.P.					
	TOTAL 8274 FT.	CUM. HRS. RUN 24 1/2	1:30	9:15	2 3/4		PUMP DOWN SURVEY					
	WT OF STRING 206 LBS.	CONDITION	1:35	12:00			HOIST W/ BIT 59					
	DRILLER Roy Chamber											
	WEATHER CONDITIONS Mild											

allons of Diesel Fuel on Hand at 8:00 a.m. 276.4 GAL 38"

REPORT No. 84

DATE: Mo

CONFIDENTIAL

No.	DRILLING ASSEMBLY			BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HR
2	STANDS	DP	766.28	Drilling or Core Bit No.	59											
	SNGLS.	DP	FT.	TYPE	MHUN	8177	25		8202		95	50				
	9"	OD	142.36	SIZE	12 1/4								PUMP No. 1	1600	6"	135
	D.C.												PUMP No. 2	1850	6 3/4	61
	8"	OD	238.32	NOZ. SIZE	3/22											
	RMR BOD	13 1/4	89.25	SERIAL No.	389249											
	STB BOD	5 1/2	13.80	DEPTH IN	8177	From	To	Elapsed Time								
	SUB	4 1/2	3.91	DEPTH OUT		4:00	4:15	1/4								
	BIT SUB	4 1/2	4.00	FT. DRILLED	25	4:15	5:15	1								
	SARS		10.45	FT. REAMED		5:15	6:00	3/4								
	Kelly Down		28.00	FT. CORED		6:00										
	TOTAL		8202	CUM. HRS. RUN	5	6:00	7:20	1 1/2								
	WT OF STRING		204.00	CONDITION		7:20	8:30	1								
	DRILLER					8:30	12:00	3 1/2								
	WEATHER CONDITIONS															

2 Boilers 8 HRS

RIG SERV + BOPS

FIN RUNNING IN. HOLE W/ BIT 29

BREAK CORE + CLEAN 60' TO 21m

ELECTRICIANS WORKING ON POWER STAIRS

DRLG 12 1/4" HOLE

ELECTRICIANS WORKING ON POWER STAIRS

DRLG 12 1/4" HOLE

DUMP SAND TRAPS

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION LSD.		SEC. SEC.		TWP. TWP.		RGE. RGE.		W. W.		WELL NAME UNION Amoco McPHERSON		No. 23-25		PROVINCE N.W.T.	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2 1/2	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE IF	PUMPS		CASING & LINER RECORD		SIZE 13 1/8 6875	WT & GR. 0	DEPTH JET FROM TO 1524	TYPE OF CEMENT OIL WELL	CEMENT USED 1570	OTHER 2% CAL.		
OPERATOR'S REPRESENTATIVE <i>Charles Bawden</i>		CONTRACTOR'S TOOL PUSHER <i>A. Rasmussen</i>		1. NAT 10P 130		2. CD 6 X B											

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.											
DRILLING	8	7 1/2	4	82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59	8202	33		8235		95	50		1550	6	145	1	WEIGHT	10.5	10.5	10.5	10.5										
TRIPPING				1	SNGLS. DP 3098 FT.	TYPE M44N												VISC.	183	215	200	180											
RIG MAINTENANCE		1/2	4	5	D.C. 9 OD 14236 FT.	SIZE 12 1/4												W.L.C.C.	5.8	6.0	5.8	5.6											
RIG REPAIRS				8	8 OD 23833 FT.	NOZZ. SIZE 3-22												FLTR. CK.	132	132	132	132											
HOLE SURVEYS				3	RMR BOD 6 1/4 OD 8925 FT.	SERIAL No. 389249												pH	9.5	9.5	9.5	9.5											
CONDITIONING MUD				1	STB BOD 5/8 OD 1380 FT.	DEPTH IN 8177												SD. CONT.															
CONDITIONING HOLE				2	SUB 5/8 OD 391 FT.	DEPTH OUT 1200	800	8			DRILL 12 1/4 HOLE							MUD & CHEMICALS ADDED															
Reaming & Cleaning To Bottom				1	BIT OR SUB 4.00 FT.	FT. DRILLED 58												TYPE	AMT.	TYPE	AMT.												
WORKING OR STUCK PIPE					JARS 10.45 FT.	FT. REAMED																											
FISHING					Kelly Down 3000 FT.	FT. CORED																											
LOST CIRCULATION					TOTAL 8235 FT.	CUM. HRS. RUN 13																											
CASING					WT OF STRING 206 LBS.	CONDITION DARK																											
WAITING ON CEMENT					DRILLER P. Paugueho.																												
HEADING UP & DRILLING OUT					WEATHER CONDITIONS																												
MISC. ELANEOUS																																	
SUB TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS	8	8	8																														

WIRE LINE RECORD				DAY TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
				82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59	8260	14		8274		80	50		1500	6	140	1 1/2	WEIGHT	10.6	10.6	10.5	10.5
				2	SNGLS. DP 6227 FT.	TYPE M44N												VISC.	176	172	164	160	
				5	D.C. 9 OD 14236 FT.	SIZE 12 1/4												W.L.C.C.	5.8	5.6	5.8	6.2	
				8	8 OD 23833 FT.	NOZZ. SIZE 3-22												FLTR. CK.	132	132	132	132	
				3	RMR BOD 6 1/4 OD 8925 FT.	SERIAL No. 389249												pH	9.5	9.5	9.5	9.5	
				1	STB BOD 5/8 OD 1380 FT.	DEPTH IN 8177												SD. CONT.					
				2	SUB 5/8 OD 391 FT.	DEPTH OUT 800	1000	2			DRILL 12 1/4 HOLE							MUD & CHEMICALS ADDED					
				1	BIT OR SUB 4.00 FT.	FT. DRILLED 83												TYPE	AMT.	TYPE	AMT.		
					JARS 10.45 FT.	FT. REAMED																	
					Kelly Down 24 FT.	FT. CORED																	
					TOTAL 8260 FT.	CUM. HRS. RUN 20 1/2																	
					WT OF STRING 206 LBS.	CONDITION IN																	
					DRILLER G. Huch Rallo																		
					WEATHER CONDITIONS MILD.																		

WIRE LINE RECORD				EVENING TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
				82	STANDS DP 7666.28 FT.	Drilling or Core Bit No. 59	8274	4							1500	6	140		WEIGHT	10.5	10.5	10.5	10.5
				2	SNGLS. DP 6227 FT.	TYPE M44N												VISC.	150	160	165	165	
				5	D.C. 9 OD 14236 FT.	SIZE 12 1/4												W.L.C.C.	6.4	6.4	6.4	6.4	
				8	8 OD 23833 FT.	NOZZ. SIZE 3-22												FLTR. CK.	232	232	232	232	
				3	RMR BOD 6 1/4 OD 8925 FT.	SERIAL No. 389249												pH	9.5	9.5	9.5	9.5	
				1	STB BOD 5/8 OD 1380 FT.	DEPTH IN 8177												SD. CONT.					
				2	SUB 5/8 OD 391 FT.	DEPTH OUT 8274	400	4 1/2			DRILL 12 1/4 HOLE							MUD & CHEMICALS ADDED					
				1	BIT OR SUB 4.00 FT.	FT. DRILLED 97												TYPE	AMT.	TYPE	AMT.		
					JARS 10.45 FT.	FT. REAMED																	
					Kelly Down 38.00 FT.	FT. CORED																	
					TOTAL 8274 FT.	CUM. HRS. RUN 24 1/2																	
					WT OF STRING 206 LBS.	CONDITION																	
					DRILLER R. Chambers																		
					WEATHER CONDITIONS MILD.																		

CONSERVATION BOARD COPY

FORM D1-1.57

REPORT No. 82

DATE: MARCH 30, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION AMOCO MCPHERSON		No. B-25		PROVINCE N.W.T.				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2.5"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. NAT 10P130 2. GO GOYR.		CASING & LINER RECORD 13 1/4 68255	DEPTH SET FROM TO 0 1524	TYPE OF CEMENT DILWELL	CEMENT USED 1570	OTHER 2% C.A.L.
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>										

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	8	7 3/4	6 1/4	81	STANDS DP 7573.43 FT.	Drilling or Core Bit No. 58													TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING				1	SNGLS. DP 3090 FT.	TYPE M44N	8096	28		8124		80	45						WEIGHT	10.7	10.7	10.7	10.7										
RIG MAINTENANCE		1/4	1/4	5	D.C. 142.36 FT.	SIZE 12 1/4													VISC.	198	187	185	225										
RIG REPAIRS				8	OD 238.33 FT.	NOZZ. SIZE 3-22													W.L.-C.C.	5.6	5.8	5.6	5.6										
HOLE SURVEYS				3	RMR BOD 89.25 FT.	SERIAL No. 326200													FLTR. CK.	3/32	3/32	3/32	3/32										
CONDITIONING MUD				1	STB 138.0 FT.	DEPTH IN 8082													pH	8.0	9.5	9.5	9.5										
CONDITIONING HOLE				2	SUB 391 FT.	DEPTH OUT	1200	800	8		DRILL 12 1/4 HOLE								SD. CONT.														
Reaming & Cleaning To Bottom				1	BIT OR C.B. 400 FT.	FT. DRILLED 42													MUD & CHEMICALS ADDED														
WORKING OR STUCK PIPE						FT. REAMED													TYPE	AMT.	TYPE	AMT.											
FISHING						FT. CORED													GEL	100G													
LOST CIRCULATION						CUM. HRS. RUN 11 1/2													CAUSTIC	50"													
CASING						WT OF STRING 205.000 LBS.																											
WAITING ON CEMENT						CONDITION DRILLING																											
HEADING UP & DRILLING OUT						DRILLER P. P. [Signature]																											
MISCELLANEOUS						WEATHER CONDITIONS																											
SUB TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS	8	8	8																														

WIRE LINE RECORD		DAY TOUR										EVENING TOUR									
PEEL No.		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
No. OF LINES	SIZE	81	STANDS DP 7634.71 FT.	Drilling or Core Bit No. 58												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
FEET SLIPPED		2	SNGLS. DP 7 FT.	TYPE M44N	8124	30		8154		80	45					WEIGHT	10.7	10.7	10.7	10.7	
FEET CUT OFF		5	9" OD 142.36 FT.	SIZE 12 1/4												VISC.	224	226	225	224	
PRESENT LENGTH		8	8" OD 238.33 FT.	NOZZ. SIZE 3-22												W.L.-C.C.	5.6	5.4	5.6	6.0	
TON MI. OF TRIPS SINCE LAST CUT		3	RMR BOD 89.25 FT.	SERIAL No. 326200												FLTR. CK.	3/32	3/32	3/32	3/32	
CUMULATIVE TON MI. OF TRIPS		1	STB 13.80 FT.	DEPTH IN 8082												pH	10.0	9.5	9.5	10.0	
No. OF DAYS FROM SPUD	82	2	SUB 391 FT.	DEPTH OUT	8:00	10:00	2		DRILL 12 1/4 HOLE							SD. CONT.					
DAYS SINCE LAST ACCDNT.	146	1	BIT OR C.B. 400 FT.	FT. DRILLED 72	10:00	10:15	14		RIG SERV. B.O.P.												
DRILLER ACCDNT. FREE DAYS			JARS 10.45 FT.	FT. REAMED	10:15	4:00	5		3/4 DRILL 12 1/4 HOLE												
MORNING TOUR			Kelly Down 11.00 FT.	FT. CORED																	
DAY TOUR	111		TOTAL 8154 FT.	CUM. HRS. RUN 19 1/4																	
EVENING TOUR			WT OF STRING 205 M LBS.	CONDITION IN																	
			DRILLER G. [Signature]																		
			WEATHER CONDITIONS MILD																		

WIRE LINE RECORD		DAY TOUR										EVENING TOUR									
PEEL No.		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
No. OF LINES	SIZE	81	STANDS DP 7628.43 FT.	Drilling or Core Bit No. 58												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
FEET SLIPPED		2	SNGLS. DP 61.28 FT.	TYPE M44N	8154	23		8177		70	50					WEIGHT	10.7	10.7	10.7	10.7	
FEET CUT OFF		5	9" OD 142.36 FT.	SIZE 12 1/4												VISC.	210	210	205	205	
PRESENT LENGTH		8	8" OD 238.33 FT.	NOZZ. SIZE 3/22												W.L.-C.C.	6.0	6.0	6.1	6.1	
TON MI. OF TRIPS SINCE LAST CUT		3	RMR BOD 89.25 FT.	SERIAL No. 326200												FLTR. CK.	3/32	3/32	3/32	3/32	
CUMULATIVE TON MI. OF TRIPS		1	STB 13.80 FT.	DEPTH IN 8082												pH	9.5	9.5	9.5	9.5	
No. OF DAYS FROM SPUD	82	2	SUB 391 FT.	DEPTH OUT	4:00	9:00	5		DRILL 12 1/4 HOLE							SD. CONT.					
DAYS SINCE LAST ACCDNT.	146	1	BIT OR C.B. 400 FT.	FT. DRILLED 95	9:00	9:15	14		RIG SERV. & BOYS												
DRILLER ACCDNT. FREE DAYS			Kelly Down 34.00 FT.	FT. CORED	9:15	10:30	1 1/4		DRILL 12 1/4 HOLE												
MORNING TOUR			TOTAL 8177 FT.	CUM. HRS. RUN 25 1/2																	
DAY TOUR	111		WT OF STRING 206,000 LBS.	CONDITION																	
EVENING TOUR			DRILLER R. [Signature]																		
			WEATHER CONDITIONS Cool																		

Gallons of Diesel Fuel on Hand at 8:00 a.m.		REPORT No.		DATE	
1900 X 37"		82		MARCH 29 1972	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE						
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
UNION OIL LTD.		2	2 5/8"	6 1/2	OD	E	UNION AMOCO McPHERSON 8-25			13 1/2	13.75	0 1524	Oilwell 5.70	2% cable		
PETER BAWDEN DRILLING SERVICES LTD.																
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. MANUFACTURER		TYPE								
Charles Schneider		H. Raseth				NAT 10 R130		GTR								
TIME DISTRIBUTION—HOURS																
Morn	Day	Eve														
DRILLING	7 3/4	2 1/2	3 1/2													
TRIPPING	1 1/4	1 1/4	1 1/4													
RIG MAINTENANCE	1/4	1/4	1/4													
RIG REPAIRS																
HOLE SURVEYS	1/4															
CONDITIONING MUD																
CONDITIONING HOLE	1/4															
Reaming & Cleaning To Bottom			2 1/4													
WORKING OR STUCK PIPE																
FISHING																
LOST CIRCULATION																
CASING																
WAITING ON CEMENT																
HEADING UP & DRILLING OUT																
MISC. ELANES	1/2															
SUB TOTAL																
DAYWORK HOURS																
TOTAL HOURS	8	8	8													
WIRE LINE RECORD																
REEL No.																
No. OF LINES	10	SIZE	13/8													
FEET SLIPPED	45															
FEET CUT OFF																
PRESENT LENGTH																
TON MI. or TRIPS SINCE LAST CUT	536															
CUMULATIVE TON MI. or TRIPS	266.74															
No. OF DAYS FROM SPUD	81															
CUMULATIVE ROTATING HRS.																
DAYS SINCE LAST ACCONT.	145															
DRILLER ACCONT. FREE DAYS																
MORNING TOUR																
DAY TOUR																
EVENING TOUR	100															
MORNING TOUR																
DAY TOUR																
EVENING TOUR																
FORM D1-1.67																

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 38" 2264 cals

REPORT No. 81

DATE: March 28, 1972

CONSERVATION BOARD COPY

FORM 01-1-67

REPORT No. 80

DATE: MAR 27/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSO.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE			
UNION OIL L.T.O.		UNION AMALGAMATION							R-25		M.W.I.			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD. IF		E	No. MANUFACTURER TYPE		1. MAT 12P130	13 3/4 68755 0	1524 0114411	15.70	2 1/2 Call	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
H. Schneider		S. Parikh												

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn	Day	Eve		No.	STANDS DP	Drilling or Core Bit No.	56												TIME	1st HR.	3rd HR.	5th HR.	7th HR.
DRILLING	7 3/4	7 1/4	7	4	9" OD	113.61 FT.	SIZE	1 1/4	1924	36	7964		50	42					WEIGHT	10.7	10.7	10.7	10.7
TRIPPING				7	8" OD	208.75 FT.	NOZZ. SIZE	3/22											VISC.	175	160	170	220
RIG MAINTENANCE	1/4	1/4	1/4	3	RMR BOD 3/4 OD	89.25 FT.	SERIAL No.	378632											W.L.C.C.	6.3	6.3	6.0	6.0
RIG REPAIRS				1	STB BOD 5/8 OD	13.80 FT.	DEPTH IN	7926											FLTR. CK.	2/32	2/32	2/32	2/32
HOLE SURVEYS			1/2	2	SUB 5/8 OD	3.91 FT.	DEPTH OUT												PH	9.5	9.5	10.0	10.0
CONDITIONING MUD				1	BIT 3/4 OD	4.00 FT.	FT. DRILLED	38											SD. CONT.				
CONDITIONING HOLE					JARS	10.45 FT.	FT. REAMED												MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom					Kelly Down	34.00 FT.	FT. CORED												TYPE	AMT.	TYPE	AMT.	
WORKING OR STUCK PIPE			1/4		TOTAL	7964 FT.	CUM. HRS. RUN	8 1/4											GEL	1800			
					WT OF STRING	18200 LBS.	CONDITION												CUSTIC	50			
					DRILLER	Frank Schmidt																	
					WEATHER CONDITIONS																		

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn	Day	Eve		No.	STANDS DP	Drilling or Core Bit No.	56												TIME	1st HR.	3rd HR.	5th HR.	7th HR.
DRILLING				1	SNGLS. DP	20.18 FT.	TYPE	544	7964	26	7990		90	42					WEIGHT	10.7	10.7	10.7	10.7
CASING				4	9" OD	113.61 FT.	SIZE	1 1/4											VISC.	250	230	220	220
WAITING ON CEMENT				7	8" OD	208.75 FT.	NOZZ. SIZE	3/22											W.L.C.C.	6.0	6.0	5.2	5.2
HEADING UP & DRILLING OUT				3	RMR BOD 3/4 OD	89.25 FT.	SERIAL No.	378632											FLTR. CK.	2/32	2/32	2/32	2/32
MISC. ELLANEOUS				1	STB BOD 5/8 OD	13.80 FT.	DEPTH IN	7926											PH	10.6	10.0	9.5	9.5
SUB TOTAL				2	SUB 5/8 OD	3.91 FT.	DEPTH OUT												SD. CONT.				
DAYWORK HOURS				1	BIT 5/8 OD	4.00 FT.	FT. DRILLED	64											MUD & CHEMICALS ADDED				
TOTAL HOURS	8	8	8		JARS	10.45 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
					Kelly Down	29.00 FT.	FT. CORED												W.L.	100	300		
					TOTAL	7990 FT.	CUM. HRS. RUN	16															
					WT OF STRING	18200 LBS.	CONDITION																
					DRILLER	Ron Chambers																	
					WEATHER CONDITIONS	Mild + Snowing																	

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn	Day	Eve		No.	STANDS DP	Drilling or Core Bit No.	56												TIME	1st HR.	3rd HR.	5th HR.	7th HR.
DRILLING				2	SNGLS. DP	61.26 FT.	TYPE	544	7990	20	8010		80	45					WEIGHT	10.6	10.6	10.5	10.6
PRESENT LENGTH				4	9" OD	113.61 FT.	SIZE	2 1/4											VISC.	200	190	250	247
TON MI. or TRIPS SINCE LAST CUT	115			7	8" OD	208.75 FT.	NOZZ. SIZE	3-22											W.L.C.C.	6.2	5.6	5.4	5.4
CUMULATIVE TON MI. or TRIPS	26938			3	RMR BOD 3/4 OD	13.80 FT.	SERIAL No.	378632											FLTR. CK.	2/32	2/32	2/32	2/32
No. OF DAYS FROM SPUD	779			1	STB BOD 5/8 OD	8.925 FT.	DEPTH IN	7926											PH	9.5	9.5	10.0	9.5
DAYS SINCE LAST ACCT.	142			2	SUB 5/8 OD	4.00 FT.	DEPTH OUT	8010											SD. CONT.				
DRILLER ACCT. FREE DAYS				1	BIT 3/4 OD	3.91 FT.	FT. DRILLED	84											MUD & CHEMICALS ADDED				
MORNING TOUR					JARS	10.45 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
DAY TOUR					Kelly Down	24.08 FT.	FT. CORED												Gel	1200			
EVENING TOUR					TOTAL	8010 FT.	CUM. HRS. RUN	23											BenL	4			
					WT OF STRING	18200 LBS.	CONDITION	6-3-1											Custic	50			
					DRILLER	Chuck Pello													WT MAT	2500			
					WEATHER CONDITIONS	SNOWING																	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LS.D.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		GULION AMOLOMORPHENSON							B-25		N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2#	25	TYPE THD.	IF	E	No. MANUFACTURER TYPE		1. MAT 10P130						2 1/2 Calk
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Robinson		A. Roseth													

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	Drilling or Core Bit No.	TYPE	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING	6 1/4		1 1/2	29	STANDS DP 7386.95 FT.	55		1909	17		1926		80	35						WEIGHT	10.7	10.2	10.7	
TRIPPING	1 1/2	3 1/4		2	SNGLS. DP 6342 FT.	544														VISC.	165	160	148	
RIG MAINTENANCE		1 1/4		4	D.C. 9" OD 113.61 FT.	12 1/4														W.L.C.C.	6.0	6.2	6.2	
RIG REPAIRS		1 1/2		7	8" OD 208.75 FT.	3/22														FLTR. CK.	2/32	2/32	2/32	
HOLE SURVEYS	1 1/4			3	RMR BODY 89.27 FT.	378632														pH	9.5	9.5	9.0	
CONDITIONING MUD				1	STB BODY 13.80 FT.	7926														SD. CONT.				
CONDITIONING HOLE				2	SUBS 3.91 FT.	7926														MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom	1 1/2	7 1/2		1	BIT 4.00 FT.	48														TYPE	AMT.	TYPE	AMT.	
WORKING OR STUCK PIPE					JARS 10.45 FT.															2500	DARSE			
FISHING					Kelly Down 2600 FT.																			
LOST CIRCULATION					TOTAL 7926 FT.																			
CASING					WT OF STRING 20900 LBS.																			
WAITING ON CEMENT					DRILLER Frank Schmitt																			
HEADING UP & DRILLING OUT					WEATHER CONDITIONS																			
MISCELLANEOUS																								
SUB TOTAL																								
DAYWORK HOURS																								
TOTAL HOURS	8	8																						

WIRE LINE RECORD				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	REEL No.	No. OF LINES	SIZE	No.	DRILLING ASSEMBLY	Drilling or Core Bit No.	TYPE	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
		10	1 3/8	29	STANDS DP 7386.95 FT.	56		7926	2		7928		80	35						WEIGHT	10.6	10.6	10.6	10.7
		45		2	SNGLS. DP 6342 FT.	544														VISC.	170	120	173	203
		90		4	D.C. 9" OD 113.61 FT.	12 1/4														W.L.C.C.	6.2	6.4	6.6	6.4
				7	8" OD 208.75 FT.	3/22														FLTR. CK.	2/32	-	-	-
				3	RMR BODY 89.27 FT.	378632														pH	9.5	9.5	9.0	9.5
				1	STB BODY 13.80 FT.	7926														SD. CONT.				
				2	SUBS 3.91 FT.	7926														MUD & CHEMICALS ADDED				
				1	BIT 4.00 FT.	2														TYPE	AMT.	TYPE	AMT.	
					JARS 10.45 FT.															GEL	1900 #			
					Kelly Down 28.00 FT.															BENEX	8 #			
					TOTAL 7928 FT.															CAUSTIC	50 #			
					WT OF STRING 180M LBS.																			
					DRILLER 6 Luch Pallo																			
					WEATHER CONDITIONS WINDY																			

DAILY TOUR REPORT

OPERATOR		LOCATION				LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
CUNIFF OIL LTD		PETER BAWDEN DRILLING SERVICES LTD.				2		2		2		2		2		GULIH AMOLO MURPHYSON		B-25		N W T	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		OD		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		DEPTH SET		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 1/2		TYPE THD. EF		E		E		No. MANUFACTURER TYPE		1. WAT 10 P130 2. GO G&R		13 3/8 6855 0 1524 oil well		15.70		2% Gell	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																			
Charles Murphy		H. Roseth																			
TIME DISTRIBUTION—HOURS		Morn		Day		Eve															
DRILLING		4		7		7 1/4															
TRIPPING		1																			
RIG MAINTENANCE						1 1/4															
RIG REPAIRS						1															
HOLE SURVEYS																					
CONDITIONING MUD																					
CONDITIONING HOLE																					
Reaming & Cleaning To Bottom		3																			
WORKING OR STUCK PIPE																					
FISHING																					
LOST CIRCULATION																					
CASING																					
WAITING ON CEMENT																					
HEADING UP & DRILLING OUT																					
MISC. ELLANEOUS																					
SUB TOTAL																					
DAYWORK HOURS																					
TOTAL HOURS		4		8		8															
WIRE LINE RECORD																					
REEL No.																					
No. OF LINES		10		SIZE 1 3/8																	
FEET SLIPPED																					
FEET CUT OFF																					
PRESENT LENGTH																					
TON MI. OF TRIPS SINCE LAST CUT		921																			
CUMULATIVE TON MI. OF TRIPS		25.893																			
No. OF DAYS FROM SPUD		77																			
CUMULATIVE ROTATING HRS.																					
DAYS SINCE LAST ACCDNT.																					
DRILLER ACCDNT. FREE DAYS																					
MORNING TOUR																					
DAY TOUR																					
EVENING TOUR																					

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DAILY TOUR REPORT

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OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
Union Oil LTD								UNION AMOLCOMPHERSON	B-25	N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	25	TYPE THD	4 1/2 IF	E	No. MANUFACTURER TYPE		1. Nait 10 P130						2 3/4 Cable
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Chambers		A. Roseth													

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD						
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	53	7732	15		7747																									
4 1/2	3 1/4	7 1/4		4 D.C.	113.61	FT.	SIZE 12 1/4																													
3 1/4	3 1/2			7 8" OD	208.75	FT.	NOZZ. SIZE 2 1/2																													
	1/2	1/4		3 RMR BODY	89.27	FT.	SERIAL No. 38055																													
	1/4			1 STB BODY	13.80	FT.	DEPTH IN 7653																													
				2 SUBS	3.91	FT.	DEPTH OUT 7747																													
				1 BIT OR C.B.	4.00	FT.	FT. DRILLED 94																													
				JARS	10.45	FT.	FT. REAMED																													
				Kelly Down	3400	FT.	FT. CORED																													
				TOTAL	7747	FT.	CUM. HRS. RUN 21 3/4																													
				WT OF STRING	195000	LBS.	CONDITION																													
				DRILLER	A. Roseth																															
				WEATHER CONDITIONS																																

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD						
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	54	7747	7		7754																									
				4 D.C.	113.61	FT.	SIZE 12 1/4																													
				3 RMR BODY	89.27	FT.	SERIAL No. 38055																													
				2 STB BODY	13.80	FT.	DEPTH IN 7747																													
				1 SUBS	3.91	FT.	DEPTH OUT 7747																													
				1 BIT OR C.B.	4.00	FT.	FT. DRILLED 7																													
				Kelly Down	4100	FT.	FT. CORED																													
				TOTAL	7754	FT.	CUM. HRS. RUN 13 1/4																													
				WT OF STRING	195000	LBS.	CONDITION																													
				DRILLER	P. Panquato																															
				WEATHER CONDITIONS																																

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD						
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	54	7754	37		7791																									
				1 SNGLS. DP	30.98	FT.	TYPE XV																													
				4 D.C.	113.61	FT.	SIZE 12 1/4																													
				3 RMR BODY	89.27	FT.	SERIAL No. 38055																													
				1 STB BODY	13.80	FT.	DEPTH IN 7747																													
				2 SUBS	3.91	FT.	DEPTH OUT 7747																													
				1 BIT OR C.B.	4.00	FT.	FT. DRILLED 44																													
				JARS	10.45	FT.	FT. REAMED																													
				Kelly Down	22.29	FT.	FT. CORED																													
				TOTAL	7791	FT.	CUM. HRS. RUN 9 1/2																													
				WT OF STRING	195000	LBS.	CONDITION																													
				DRILLER	G. Much Pollo																															
				WEATHER CONDITIONS	FAIR																															

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD					
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	54	7754	37		7791																								
				1 SNGLS. DP	30.98	FT.	TYPE XV																												
				4 D.C.	113.61	FT.	SIZE 12 1/4																												
				3 RMR BODY	89.27	FT.	SERIAL No. 38055																												
				1 STB BODY	13.80	FT.	DEPTH IN 7747																												
				2 SUBS	3.91	FT.	DEPTH OUT 7747																												
				1 BIT OR C.B.	4.00	FT.	FT. DRILLED 44																												
				JARS	10.45	FT.	FT. REAMED																												
				Kelly Down	22.29	FT.	FT. CORED																												
				TOTAL	7791	FT.	CUM. HRS. RUN 9 1/2																												
				WT OF STRING	195000	LBS.	CONDITION																												
				DRILLER	G. Much Pollo																														
				WEATHER CONDITIONS	FAIR																														

TIME DISTRIBUTION—HOURS				DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	54	7754	37		7791																							
				1 SNGLS. DP	30.98	FT.	TYPE XV																											
				4 D.C.	113.61	FT.	SIZE 12 1/4																											
				3 RMR BODY	89.27	FT.	SERIAL No. 38055																											
				1 STB BODY	13.80	FT.	DEPTH IN 7747					</																						

DAILY TOUR REPORT

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OPERATOR UNION OIL LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME Union Amoco McPHERSON		No. B-25		PROVINCE N.W.T.						
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. 2	TOOL JOINT 5 1/2 OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>Roseth</i>		1. NAT 10-P-130		2. G.D. GXR		3.		13 3/8 8555		0 1524	OH WELL 1570	2% CACIA

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
Morn	Day	Eve		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
				77	STANDS DP 7203.73 FT.	Drilling or Core Bit No. 53													TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
DRILLING	3 1/2	6 3/4	7 1/4	4	SNGLS. DP 113.61 FT.	TYPE XDC	7653	18		7671									WEIGHT	10.4	10.4	10.4	10.4										
TRIPPING	1/2			7	D.C. 208.75 FT.	SIZE 12 1/4													VISC.	160	160	145	160										
RIG MAINTENANCE	1/4	1/4		3	RMR BODY OD 89.27 FT.	NOZZ. SIZE 3/8 1/2													W.L.-C.C.	6.2	6.2	7.4	7.4										
RIG REPAIRS		1	1	1	STB BODY 1380 FT.	SERIAL No. 38053													FLTR. CK.	2/32	2/32	2/32	2/32										
HOLE SURVEYS				2	SUBS 3.91 FT.	DEPTH IN 7653													pH	9.5	9.5	9.5	9.5										
CONDITIONING MUD				1	BIT 4.00 FT.	DEPTH OUT 1200													SD. CONT.														
CONDITIONING HOLE				1	JARS 10.45 FT.	FT. DRILLED 18													MUD & CHEMICALS ADDED														
Reaming & Cleaning To Bottom	3 3/4				Kelly Down 19 FT.	FT. REAMED													TYPE	AMT.	TYPE	AMT.											
WORKING OR STUCK PIPE					TOTAL 7671 FT.	CUM. HRS. RUN 3 1/2													GEL	2000													
					WT OF STRING 195000 LBS.	CONDITION													BENEX	10													
					DRILLER <i>Roseth</i>														CAUSTIC	50													
					WEATHER CONDITIONS <i>COLDER</i>																												

WIRE LINE RECORD				DAY TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	10	1 1/8		77	STANDS DP 7203.73 FT.	Drilling or Core Bit No. 53													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
FEET SLIPPED				1	SNGLS. DP 3141 FT.	TYPE XDC	7671	37		7708									WEIGHT	10.4	10.4	10.5	10.6
FEET CUT OFF				4	D.C. 113.61 FT.	SIZE 12 1/4													VISC.	160	155	150	130
PRESENT LENGTH				7	RMR BODY 89.27 FT.	NOZZ. SIZE 3/8 1/2													W.L.-C.C.	6.5	6.8	6.8	6.8
TON MI. or TRIPS SINCE LAST CUT				3	STB BODY 1380 FT.	SERIAL No. 38053													FLTR. CK.	2/32	2/32	2/32	2/32
CUMULATIVE TON MI. or TRIPS				2	SUBS 3.91 FT.	DEPTH IN 7653													pH	9.5	9.5	9.5	9.5
No. OF DAYS FROM SPUD	74			1	BIT 4.00 FT.	DEPTH OUT 800													SD. CONT.				
DAYS SINCE LAST ACCDNT.					JARS 10.45 FT.	FT. DRILLED 53													MUD & CHEMICALS ADDED				
DRILLER ACCDNT. FREE DAYS					Kelly Down 2400 FT.	FT. REAMED													TYPE	AMT.	TYPE	AMT.	
MORNING TOUR	138				TOTAL 7708 FT.	CUM. HRS. RUN 10 1/4													GEL	1000			
DAY TOUR					WT OF STRING 195000 LBS.	CONDITION													BENEX	4			
EVENING TOUR					DRILLER <i>Frank Schmidt</i>														BARITE	2700			
					WEATHER CONDITIONS																		

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		PROVINCE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & CR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				No. MANUFACTURER TYPE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
UNION O.L. LTD.		UNION Amco McPherson				B-25		N.W.T.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 5/8"	6 1/2 OD	E	1. NAT 10-P-130 2. G.D. GXR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Charles Schneider		H. Routh																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION Amoco McPHERSON		No. D-25		PROVINCE N.W.T.					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. 2	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles Bawden</i>		CONTRACTOR'S TOOL PUSHER <i>G. Paruth</i>		1. NAT 10-P-130 2. G.D. GXR									

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.											
DRILLING	7 3/4	4		25	STANDS DP 7016.09 FT.	Drilling or Core Bit No. 51	7520	30		7550		90	40	PUMP No. 1 1250	6"	135	634	WEIGHT	10.3	10.3	10.3	10.3											
TRIPPING	5 1/2			4	SNGLS. DP 62.99 FT.	TYPE 544								PUMP No. 2 1100	6 3/4	62	1	VISC.	140	160	160	160											
RIG MAINTENANCE	4			7	D.C. 9" OD 113.61 FT.	SIZE 12 1/4												W.L.C.C.	7.6	7.6	7.8	7.8											
RIG REPAIRS	1			3	RMR BOD 6 3/4 OD 89.27 FT.	NOZZ. SIZE 1 1/2												FLTR. CK.	3/32	3/32	3/32	3/32											
HOLE SURVEYS	1/4			1	STR 5 1/2 OD 13.80 FT.	SERIAL No. 375834												pH	9.0	9.0	9.5	9.5											
CONDITIONING MUD				2	SUBS 3.91 FT.	DEPTH IN 7444												SD. CONT.															
CONDITIONING HOLE				1	BIT 5 1/2 B. 4.00 FT.	FT. DRILLED 106												MUD & CHEMICALS ADDED															
Reaming & Cleaning To Bottom	1 1/4				JARS 10.45 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.												
WORKING OR STUCK PIPE					Kelly Down 21 FT.	FT. CORED												GEL	1000														
					TOTAL 7230 FT.	CUM. HRS. RUN 24 1/2												BENEX	6														
					WT OF STRING 182000 LBS.	CONDITION 3-5-T												CAUSTIC	100														
					DRILLER <i>Ken Chambers</i>																												
					WEATHER CONDITIONS <i>Mild</i>																												

WIRE LINE RECORD				DAY TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
	10	3/8		25	STANDS DP 7016.09 FT.	Drilling or Core Bit No. 52	7550			7575		90	35	PUMP No. 1 1200	6"	135	4	WEIGHT	10.3	10.3	10.3	10.3	
				4	SNGLS. DP 62.99 FT.	TYPE X16								PUMP No. 2 1650	6 3/4	60	4	VISC.	165	140	120	164	
				7	D.C. 9" OD 113.61 FT.	SIZE 12 1/4												W.L.C.C.	7.8	7.8	7.8	7.8	
				3	RMR BOD 6 3/4 OD 89.27 FT.	NOZZ. SIZE 1 1/2												FLTR. CK.	3/32	3/32	3/32	3/32	
				1	STR 5 1/2 OD 13.80 FT.	SERIAL No. 375834												pH	9.5	9.5	9.0	9.5	
				2	SUBS 3.91 FT.	DEPTH IN 7550												SD. CONT.					
				1	BIT 5 1/2 B. 4.00 FT.	FT. DRILLED												MUD & CHEMICALS ADDED					
					JARS 10.45 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.		
					Kelly Down 2100 FT.	FT. CORED												GEL	1900				
					TOTAL 7550 FT.	CUM. HRS. RUN												BENEX	8				
					WT OF STRING 192000 LBS.	CONDITION												CAUSTIC	50				
					DRILLER <i>P. Paruth</i>																		
					WEATHER CONDITIONS																		

WIRE LINE RECORD				EVENING TOUR																		
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	3/8		26	STANDS DP 7016.09 FT.	Drilling or Core Bit No. 52	7550			7575		90	35	PUMP No. 1 1200	6"	135	4	WEIGHT	10.3	10.3	10.3	10.3
				4	SNGLS. DP 62.99 FT.	TYPE X16								PUMP No. 2 1650	6 3/4	60	4	VISC.	165	140	120	164
				7	D.C. 9" OD 113.61 FT.	SIZE 12 1/4												W.L.C.C.	7.8	7.8	7.8	7.8
				3	RMR BOD 6 3/4 OD 89.27 FT.	NOZZ. SIZE 1 1/2												FLTR. CK.	3/32	3/32	3/32	3/32
				1	STR 5 1/2 OD 13.80 FT.	SERIAL No. 375834												pH	9.5	9.5	9.0	9.5
				2	SUBS 3.91 FT.	DEPTH IN 7550												SD. CONT.				
				1	BIT 5 1/2 B. 4.00 FT.	FT. DRILLED												MUD & CHEMICALS ADDED				
					JARS 10.45 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
					Kelly Down 1500 FT.	FT. CORED												GEL	1900			
					TOTAL 7525 FT.	CUM. HRS. RUN 4												BENEX	8			
					WT OF STRING 192000 LBS.	CONDITION												CAUSTIC	50			
					DRILLER <i>P. Paruth</i>																	
					WEATHER CONDITIONS																	

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. *37" 2190 Halo*REPORT No. *72*DATE: *MARCH 19, 72*

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION UNION AMOEO McPHERSON		WELL NAME B-25		PROVINCE N.W.T	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. #2	DRILL PIPE STRING No. SIZE 2 5/8"	TOOL JOINT 6 1/2"	OD OD	DRILL PIPE GRADE E	
OPERATOR'S REPRESENTATIVE <i>Charles Phares</i>		CONTRACTOR'S TOOL PUSHER <i>A. Rosell</i>		PUMPS		CASING & LINER RECORD	
				No. MANUFACTURER TYPE		SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER	
				1. NAT 10-P-120		3 1/2" 8.535 0 1524 1570	
				2. G-D. GXR			
				3.			

TIME DISTRIBUTION—HOURS				MORNING TOUR		DAY TOUR		EVENING TOUR	
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour
DRILLING	5 1/2	1/2		74	STANDS DP 6921.18 FT.	Drilling or Core Bit No. 50	7396		
TRIPPING	3	1/4		4	SNGLS. DP 113.61 FT.	TYPE M44N			
RIG MAINTENANCE	1/4	1/4		7	D.C. 208.75 FT.	SIZE 12 1/4			
RIG REPAIRS				3	RMR BOD 89.27 FT.	NOZZ. SIZE 3/64			
HOLE SURVEYS		1/4		1	STB BOD 13.80 FT.	SERIAL No. 341151			
CONDITIONING MUD				1	SUBS OD 3.91 FT.	DEPTH IN 7396			
CONDITIONING HOLE				2	BIT 508	DEPTH OUT 7396			
Reaming & Cleaning To Bottom	3 3/4	2 1/2		1	STB BOD 13.80 FT.	FT. DRILLED 26			
WORKING OR STUCK PIPE				1	SUBS OD 3.91 FT.	FT. REAMED 26			
FISHING				1	BIT 508	FT. CORED 5 1/2			
LOST CIRCULATION				1	STB BOD 13.80 FT.	CONDITION 2-1-I			
CASING				1	SUBS OD 3.91 FT.				
WAITING ON CEMENT				1	BIT 508				
HEADING UP & DRILLING OUT				1	STB BOD 13.80 FT.				
MISCELLANEOUS				1	SUBS OD 3.91 FT.				
SUB TOTAL				1	BIT 508				
DAYWORK HOURS				1	STB BOD 13.80 FT.				
TOTAL HOURS	8	8		1	SUBS OD 3.91 FT.				

WIRE LINE RECORD				MORNING TOUR		DAY TOUR		EVENING TOUR	
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour
	10	3/8	120	74	STANDS DP 6921.18 FT.	Drilling or Core Bit No. 50	7396		
			120	4	SNGLS. DP 113.61 FT.	TYPE M44N			
				7	D.C. 208.75 FT.	SIZE 12 1/4			
				3	RMR BOD 89.27 FT.	NOZZ. SIZE 3/64			
				1	STB BOD 13.80 FT.	SERIAL No. 341151			
				1	SUBS OD 3.91 FT.	DEPTH IN 7396			
				2	BIT 508	DEPTH OUT 7396			
				1	STB BOD 13.80 FT.	FT. DRILLED 26			
				1	SUBS OD 3.91 FT.	FT. REAMED 26			
				1	BIT 508	FT. CORED 5 1/2			
				1	STB BOD 13.80 FT.	CONDITION 2-1-I			
				1	SUBS OD 3.91 FT.				
				1	BIT 508				
				1	STB BOD 13.80 FT.				
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				1	STB BOD 13.80 FT.				
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE							
UNION OIL LTD		UNION AMOCO McPHERSON		B-25	N.W.T.													
CONTRACTOR		IRIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER			
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 5/8"	6 1/2"	4 1/2 IF	E	No. MANUFACTURER TYPE		1. NAT 10P-130	2. G-D. 6XR	3.							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																
Charles Thompson		H. Roseth																
TIME DISTRIBUTION—HOURS																		
	Morn	Day	Eve															
DRILLING		1/2	6 3/4	3 1/2														
TRIPPING				4 1/2														
RIG MAINTENANCE			1/4															
RIG REPAIRS																		
HOLE SURVEYS																		
CONDITIONING MUD			7 1/2															
CONDITIONING HOLE			1 3/4															
Reaming & Cleaning To Bottom			5 3/4	1														
WORKING OR STUCK PIPE																		
FISHING																		
LOST CIRCULATION																		
CASING																		
WAITING ON CEMENT																		
HEADING UP & DRILLING OUT																		
MISC. ELLANEOUS																		
SUB TOTAL																		
DAYWORK HOURS																		
TOTAL HOURS		8	8															
WIRE LINE RECORD																		
REEL No.																		
No. OF LINES 10		SIZE 7/8																
FEET SLIPPED																		
FEET CUT OFF																		
PRESENT LENGTH																		
TON MI. OF TRIPS SINCE LAST CUT																		
CUMULATIVE TON MI. OF TRIPS																		
No. OF DAYS FROM SPUD		69																
CUMULATIVE ROTATING HRS.																		
DAYS SINCE LAST ACCDNT.		132																
DRILLER ACCDNT. FREE DAYS																		
MORNING TOUR																		
DAY TOUR																		
EVENING TOUR																		
No. OF DAYS FROM SPUD		69																
CUMULATIVE ROTATING HRS.																		
DAYS SINCE LAST ACCDNT.		132																
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OPERATOR UNION OIL LTD.		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION AMOCO McPHERSON		No. B-25		PROVINCE N.W.T.					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2-3 1/2"	TOOL JOINT 6 1/2" OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Mark P. P. P.</i>		CONTRACTOR'S TOOL PUSHER <i>Roseth</i>		No. MANUFACTURER TYPE		1. NAT 10-P-BO		2. G-D. G&R		3.			

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn	Day	Eve		No.	DRILLING ASSEMBLY	BIT RECORD													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
				22	STANDS DP 6234.75	Drilling or Core Bit No. 48																	
				2	SNGLS. DP 62.08	TYPE X1G																	
				4	9" OD 113.61	SIZE 12 1/4																	
				5	8" OD 149.27	NOZZ. SIZE 3/16																	
				3	RMR BODY 89.27	SERIAL No. 4E376																	
				2	STB BODY	DEPTH IN																	
				2	SUBS 3.91	DEPTH OUT																	
				1	BIT 4.00	FT. DRILLED																	
						FT. REAMED 120																	
					Kelly Down 13	FT. CORED																	
					TOTAL 7170	CUM. HRS. RUN 19 1/4																	
					WT OF STRING	LBS. CONDITION																	
					DRILLER <i>Row</i>																		
					WEATHER CONDITIONS <i>Cold</i>																		
MORNING TOUR																							
FISHING																							
LOST CIRCULATION																							
CASING																							
WAITING ON CEMENT																							
HEADING UP & DRILLING OUT																							
MISC. ELLANEOUS																							
SUB TOTAL																							
DAYWORK HOURS																							
TOTAL HOURS <i>8 5 1/2</i>																							
WIRE LINE RECORD																							
REEL No.																							
No. OF LINES <i>10</i> SIZE <i>7/8</i>																							
FEET SLIPPED																							
FEET CUT OFF																							
PRESENT LENGTH																							
TON MI. or TRIPS SINCE LAST CUT																							
CUMULATIVE TON MI. or TRIPS																							
No. OF DAYS FROM SPUD <i>68</i>																							
CUMULATIVE ROTATING HRS.																							
DAYS SINCE LAST ACCDNT. <i>182</i>																							
DRILLER ACCDNT. FREE DAYS																							
MORNING TOUR																							
DAY TOUR																							
EVENING TOUR <i>22</i>																							

No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
No.	DRILLING ASSEMBLY	BIT RECORD													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
22	STANDS DP 6234.75	Drilling or Core Bit No. 48																	
2	SNGLS. DP 62.08	TYPE X1G																	
4	9" OD 113.61	SIZE 12 1/4																	
5	8" OD 149.27	NOZZ. SIZE 3/16																	
3	RMR BODY 89.27	SERIAL No. 4E376																	
2	STB BODY	DEPTH IN																	
2	SUBS 3.91	DEPTH OUT																	
1	BIT 4.00	FT. DRILLED																	
		FT. REAMED 435																	
	Kelly Down 2800	FT. CORED																	
	TOTAL 7185	CUM. HRS. RUN 24 3/4																	
	WT OF STRING	LBS. CONDITION																	
	DRILLER <i>Row</i>																		
	WEATHER CONDITIONS <i>Cold</i>																		
DAY TOUR																			
FISHING																			
LOST CIRCULATION																			
CASING																			
WAITING ON CEMENT																			
HEADING UP & DRILLING OUT																			
MISC. ELLANEOUS																			
SUB TOTAL																			
DAYWORK HOURS																			
TOTAL HOURS <i>8 8 8</i>																			
WIRE LINE RECORD																			
REEL No.																			
No. OF LINES <i>10</i> SIZE <i>7/8</i>																			
FEET SLIPPED																			
FEET CUT OFF																			
PRESENT LENGTH																			
TON MI. or TRIPS SINCE LAST CUT																			
CUMULATIVE TON MI. or TRIPS																			
No. OF DAYS FROM SPUD <i>68</i>																			
CUMULATIVE ROTATING HRS.																			
DAYS SINCE LAST ACCDNT. <i>182</i>																			
DRILLER ACCDNT. FREE DAYS																			
MORNING TOUR																			
DAY TOUR																			
EVENING TOUR <i>22</i>																			

No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
No.	DRILLING ASSEMBLY	BIT RECORD													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
22	STANDS DP 6234.75	Drilling or Core Bit No. 49																	
2	SNGLS. DP 62.08	TYPE SH7																	
4	9" OD 113.61	SIZE 12 1/4																	
5	8" OD 149.27	NOZZ. SIZE 3/16																	
3	RMR BODY 89.27	SERIAL No. 391290																	
2	STB BODY	DEPTH IN																	
2	SUBS 3.91	DEPTH OUT																	
1	BIT 4.00	FT. DRILLED																	
		FT. REAMED																	
	Kelly Down 22	FT. CORED																	
	TOTAL 7189	CUM. HRS. RUN 3																	
	WT OF STRING	LBS. CONDITION																	
	DRILLER <i>P. P. P.</i>																		
	WEATHER CONDITIONS																		
EVENING TOUR																			
FISHING																			
LOST CIRCULATION																			
CASING																			
WAITING ON CEMENT																			
HEADING UP & DRILLING OUT																			
MISC. ELLANEOUS																			
SUB TOTAL																			
DAYWORK HOURS																			
TOTAL HOURS <i>22</i>																			

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 67

DATE: March 1, 1972

CONSERVATION BOARD COPY

FORM D1-1-67

0190

DATE: March 13/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION UNION ANOCO McPHERSON		WELL NAME B-25		PROVINCE N.W.T.	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2-5"	TOOL JOINT 6 1/2"	DRILL PIPE GRADE E.	PUMPS	
OPERATOR'S REPRESENTATIVE Tom Cunningham		CONTRACTOR'S TOOL PUSHER		Casing & Liner Record		DEPTH SET	
				No. MANUFACTURER TYPE		TYPE OF CEMENT	
				1. NAT 10-P-130		CEMENT USED	
				2. E-D EXR		OTHER	
				3.			

TIME DISTRIBUTION—HOURS				MORNING TOUR												MUD RECORD							
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cured or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING				46	STANDS DP 617447	Drilling or Core Bit No. 46													WEIGHT	9.6	9.4	9.4	9.4
TRIPPING				4	SNGLS. DP FT. TYPE	5516	2337					90							VISC.	235	280	195	145
RIG MAINTENANCE		1/4		5	D.C. 9" OD 113.61 FT. SIZE 12 1/4														W.L.-C.C.	6.6	6.4	6.8	6.6
RIG REPAIRS				3	RMR BODY 8927 FT. NOZZ. SIZE 3/14	SERIAL No. 794394													FLTR. CK.	1/32	1/32	1/32	1/32
HOLE SURVEYS				3	STB BODY OD FT. DEPTH IN		From To Elapsed Time	REMARKS										pH	10.0	9.5	9.5	9.5	
CONDITIONING MUD				2	SUBS 3.91 FT. DEPTH OUT		12 00 8 00	REAM F16404 TO 6575-171 FT										SD. CONT.					
CONDITIONING HOLE				1	BIT 548 4.00 FT. FT. DRILLED													MUD & CHEMICALS ADDED					
Reaming & Cleaning To Bottom	8	7/48			FT. REAMED													TYPE	AMT.	TYPE	AMT.		
WORKING OR STUCK PIPE					FT. CORED																		
					Kelly Down 4100 FT.																		
					TOTAL 6575.43 FT. CUM. HRS. RUN 10 1/2																		
					WT OF STRING 17800 LBS. CONDITION INC																		
					DRILLER R. Pare																		
					WEATHER CONDITIONS Cold																		

DAY TOUR				DAY TOUR												MUD RECORD							
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cured or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
FISHING				67	STANDS DP 626871	Drilling or Core Bit No. 46													WEIGHT	9.4	9.4	9.4	9.4
LOST CIRCULATION				4	SNGLS. DP FT. TYPE	5516	6575	103	6678										VISC.	143	145	170	170
CASING				5	D.C. 9" OD 113.61 FT. SIZE 12 1/4														W.L.-C.C.	7.1	7.1	7.2	7.2
WAITING ON CEMENT				3	RMR BODY 8927 FT. NOZZ. SIZE 3/14	SERIAL No. 794394													FLTR. CK.	3/32	3/32	3/32	3/32
HEADING UP & DRILLING OUT				3	STB BODY OD FT. DEPTH IN		From To Elapsed Time	REMARKS										pH	9.5	9.5	9.0	9.0	
MISC. ELLENEOUS				2	SUBS 3.91 FT. DEPTH OUT		8 00 8 00	REAMING										SD. CONT.					
SUB TOTAL				1	BIT 548 4.00 FT. FT. DRILLED		8 00 8 00	RIG SERU + 2 ops.										MUD & CHEMICALS ADDED					
DAYWORK HOURS					FT. REAMED		8 45 4 00	REAMING & CLEANING FROM 6575-6678										TYPE	AMT.	TYPE	AMT.		
TOTAL HOURS	8	8			FT. CORED													GEL 2400					
					Kelly Down 10,000 FT.													BENEX 32					
					TOTAL 17800 LBS. CUM. HRS. RUN 17 1/4													CAUSTIC 100					
					WT OF STRING 17800 LBS. CONDITION																		
					DRILLER R. Pare																		
					WEATHER CONDITIONS Cold																		

WIRE LINE RECORD				EVENING TOUR												MUD RECORD							
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cured or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
REEL No.				69	STANDS DP 645304	Drilling or Core Bit No. 46													WEIGHT	9.4	9.4	9.5	9.5
No. OF LINES 10 SIZE 1 3/8				4	SNGLS. DP FT. TYPE	5516	6678	256	6834			70							VISC.	180	185	165	155
FEET SLIPPED —				5	D.C. 9" OD 113.61 FT. SIZE 12 1/4														W.L.-C.C.	7.6	7.8	7.6	7.6
FEET CUT OFF —				3	RMR BODY 8927 FT. NOZZ. SIZE 3/14	SERIAL No. 794394													FLTR. CK.	1/32	1/32	1/32	1/32
PRESENT LENGTH 2133				3	STB BODY OD FT. DEPTH IN		From To Elapsed Time	REMARKS										pH	10.0	10.0	10.0	10.0	
TON MI. or TRIPS SINCE LAST CUT 826				2	SUBS 3.91 FT. DEPTH OUT		400 1300	REAMING FROM 6678 TO 6834										SD. CONT.					
CUMULATIVE TON MI. or TRIPS 23190				1	BIT 548 4.00 FT. FT. DRILLED													MUD & CHEMICALS ADDED					
No. OF DAYS FROM SPUD 65					FT. REAMED													TYPE	AMT.	TYPE	AMT.		
DAYS SINCE LAST ACCDNT. 129					FT. CORED													GEL 1000					
DRILLER ACCDNT. FREE DAYS					Kelly Down 4100 FT.													BENEX 10					
MORNING TOUR 601					TOTAL 6854 FT. CUM. HRS. RUN 25 3/4													CAUSTIC 50F					
DAY TOUR					WT OF STRING 18000 LBS. CONDITION																		
EVENING TOUR					DRILLER R. Pare																		
					WEATHER CONDITIONS																		

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION AMOCO McPHERSON							R-25		N. W. T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	TYPE THD.	X.H.	E	No. MANUFACTURER TYPE		1. NAT 10-P430			1524	511 WELL	1570 SXS	2% Gel
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		Tom Cunningham											
TIME DISTRIBUTION—HOURS		Morn		Day		Eve									
DRILLING															
TRIPPING		1/2 H/2													
RIG MAINTENANCE		1/4													
RIG REPAIRS															
HOLE SURVEYS															
CONDITIONING MUD															
CONDITIONING HOLE		2													
Reaming & Cleaning To Bottom		7 1/2		6											
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8		8		0									
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10		SIZE 1 3/4											
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH		2433													
TON MI. OF TRIPS SINCE LAST CUT		826													
CUMULATIVE TON MI. OF TRIPS		23190													
No. OF DAYS FROM SPUD		64													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCONT.		128													
DRILLER ACCONT. FREE DAYS															
MORNING TOUR		600													
DAY TOUR															
EVENING TOUR															

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

2190

REPORT No.

64

DATE:

March 11/72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 6.3

DATE: *March 10/72*

CONSERVATION BOARD COPY

FORM D1—A-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

DATE _____

March 9/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION AMOCO McPHERSON		No. B-25		PROVINCE N. W. T.	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2-5"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE F	PUMPS		DEPTH SET	
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>Tom Cunningham</i>		TYPE THD. X.H.		Casing & Liner Record		CEMENT USED	
						No. MANUFACTURER TYPE		OTHER	
						1. NAT 10-P-130		2% Bd.	
						2. G-D GXR			
						3.			

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN			
				73		STANDS DP 6858.41 FT.		Drilling or Core Bit No. 41		7219		49				7268				60		35		1650		6"		118		734			
				1		SNGLS. DP 21.64 FT.		TYPE 588																									
				4		D.C. 9" OD 113.61 FT.		SIZE 12 1/4																									
				5		8" OD 149.27 FT.		NOZZ. SIZE 3/2 1/2																									
				3		RMR BOD 6340 89.27 FT.		SERIAL No. 344647																									
				2		STB BOD 9" OD 14.00 FT.		DEPTH IN 6861																									
				2		SUBS 4" OD 3.91 FT.		DEPTH OUT																									
				1		BIT OR B. 4.00 FT.		FT. DRILLED 407																									
						Kelly Down 3553 FT.		FT. CORED																									
						TOTAL 7268.00 FT.		CUM. HRS. RUN 56 3/4																									
						WT OF STRING 1800 LBS.		CONDITION INC																									
						DRILLER <i>P. Pare</i>																											
						WEATHER CONDITIONS <i>cool & snowing</i>																											

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN			
				74		STANDS DP 6921.18 FT.		Drilling or Core Bit No. 41		7268		46				7314				60		35		1650		6"		118		7			
				4		SNGLS. DP 113.61 FT.		TYPE 588																									
				5		D.C. 9" OD 113.61 FT.		SIZE 12 1/4																									
				3		RMR BOD 6340 89.27 FT.		SERIAL No. 344647																									
				2		STB BOD 9" OD 14.00 FT.		DEPTH IN 6861																									
				2		SUBS 4" OD 3.91 FT.		DEPTH OUT																									
				1		BIT OR B. 4.00 FT.		FT. DRILLED 453																									
						Kelly Down 20 FT.		FT. CORED																									
						TOTAL 7314 FT.		CUM. HRS. RUN 64																									
						WT OF STRING 1780 LBS.		CONDITION DRLG																									
						DRILLER <i>Row E. Lamber</i>																											
						WEATHER CONDITIONS <i>Mild</i>																											

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN			
				24		STANDS DP 6921.18 FT.		Drilling or Core Bit No. 41 42		7337		23				7337				60		35		1700		6"		120					
				4		SNGLS. DP 113.61 FT.		TYPE 588 588																									
				5		D.C. 9" OD 113.61 FT.		SIZE 12 1/4 12 1/4																									
				3		RMR BOD 6340 89.27 FT.		SERIAL No. 344647 330005																									
				2		STB BOD 9" OD 14.00 FT.		DEPTH IN 6861 7337																									
				2		SUBS 4" OD 3.91 FT.		DEPTH OUT 7337																									
				1		BIT OR B. 4.00 FT.		FT. DRILLED 476																									
						Kelly Down 41-00 FT.		FT. CORED																									
						TOTAL 7337 FT.		CUM. HRS. RUN 67 1/4																									
						WT OF STRING 1600 LBS.		CONDITION 5-4-1																									
						DRILLER <i>Frank Schmidt</i>																											
						WEATHER CONDITIONS																											

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No. 60

DATE: MARCH 7 1972

CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 59

DATE: MARCH 6 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION. Amoco McPherson		No. 18-25		PROVINCE N. W. T.							
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2 3/4	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE 3 3/4	WT & GR. 1524	DEPTH SET FROM TO 0 1524	TYPE OF CEMENT Oil well	CEMENT USED 1520	OTHER 3/6 CAL	
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>St. Rose</i>		1. NAT 10P130		2. G.D. 6XR									

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
DRILLING	8	6 1/2	1/2	13	STANDS DP 6331.28 FT.	Drilling or Core Bit No. 40																											
TRIPPING		1	3/4	2	SNGLS. DP 6176 FT.	TYPE 3TS	6157.59			6816																							
RIG MAINTENANCE		1/4	1/4	4	D.C. 9" OD 11361 FT.	SIZE 12 1/4																											
RIG REPAIRS				5	8" OD 14927 FT.	NOZZ. SIZE 3/2 1/3																											
HOLE SURVEYS		4		3	RMR BODY 6 3/4" OD 8927 FT.	SERIAL No. 28590																											
CONDITIONING MUD				2	STB BODY 9" OD 1400 FT.	DEPTH IN 6395																											
CONDITIONING HOLE				2	SUBS 9" OD 391 FT.	DEPTH OUT 6395																											
Peaming & Cleaning To Bottom		3/4		1	BIT 5 1/8" 400 FT.	FT. DRILLED 421																											
WORKING OR PIPE		1/2																															
FISHING																																	
LOST CIRCULATION																																	
CASING																																	
WAITING ON CEMENT																																	
HEADING UP & DRILLING OUT																																	
SLIP CUT ELLIPTICAL																																	
SUR TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS	8	8	8																														
WIRE LINE RECORD																																	
REEL No.																																	
No. OF LINES 100 SIZE 1 3/8																																	
FEET SLIPPED 45																																	
FEET CUT OFF 45																																	
PRESENT LENGTH																																	
TON MI. OF TRIPS SINCE LAST CUT																																	
CUMULATIVE TON MI. OF TRIPS																																	
No. OF DAYS FROM SPUD 58																																	
CUMULATIVE ROTATING HRS.																																	
DAYS SINCE LAST ACCDNT. 122																																	
DRILLER ACCDNT. FREE DAYS																																	
MORNING TOUR																																	
DAY TOUR 593																																	
EVENING TOUR																																	

MORNING TOUR				DAY TOUR				EVENING TOUR					
No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
69	STANDS DP 6453.08 FT.	Drilling or Core Bit No. 40											
4	SNGLS. DP 113.61 FT.	TYPE 3TS	6816	45		6861		60	35	1650	6" 118	4 1/2	
5	8" OD 149.27 FT.	NOZZ. SIZE 3/2 1/3											
3	RMR BODY 6 3/4" OD 89.27 FT.	SERIAL No. 28590											
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 6395											
2	SUBS 9" OD 3.91 FT.	DEPTH OUT 6861											
1	BIT 5 1/8" 4.00 FT.	FT. DRILLED 456											
		FT. REAMED											
	Kelly Down 3400 FT.	FT. CORED											
	TOTAL 6861 FT.	CUM. HRS. RUN 67											
	WT OF STRING 175,000 LBS.	CONDITION 1-2 F											
	DRILLER P. Pare												
	WEATHER CONDITIONS Cooler												

DAY TOUR				EVENING TOUR									
No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
69	STANDS DP 6453.08 FT.	Drilling or Core Bit No. 41											
4	SNGLS. DP 113.61 FT.	TYPE 588	6861	15		6876		60	34	1650	6" 118	4	
5	8" OD 149.27 FT.	NOZZ. SIZE 3/2 1/3											
3	RMR BODY 6 3/4" OD 89.27 FT.	SERIAL No. 244647											
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 6861											
2	SUBS 9" OD 3.91 FT.	DEPTH OUT 15											
1	BIT 5 1/8" 4.00 FT.	FT. DRILLED 15											
		FT. REAMED											
	Kelly Down 18 FT.	FT. CORED											
	TOTAL 6876 FT.	CUM. HRS. RUN 2 1/2											
	WT OF STRING 172,000 LBS.	CONDITION											
	DRILLER Row B. Chambers												
	WEATHER CONDITIONS Cold												

EVENING TOUR				MORNING TOUR									
No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
69	STANDS DP 6453.08 FT.	Drilling or Core Bit No. 41											
4	SNGLS. DP 113.61 FT.	TYPE 588	6861	15		6876		60	34	1650	6" 118	4	
5	8" OD 149.27 FT.	NOZZ. SIZE 3/2 1/3											
3	RMR BODY 6 3/4" OD 89.27 FT.	SERIAL No. 244647											
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 6861											
2	SUBS 9" OD 3.91 FT.	DEPTH OUT 15											
1	BIT 5 1/8" 4.00 FT.	FT. DRILLED 15											
		FT. REAMED											
	Kelly Down 18 FT.	FT. CORED											
	TOTAL 6876 FT.	CUM. HRS. RUN 2 1/2											
	WT OF STRING 172,000 LBS.	CONDITION											
	DRILLER Row B. Chambers												
	WEATHER CONDITIONS Cold												

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																						
UNION OIL LTD.		B 25	6020	135	30		UNION AMOCO McPHERON	B-25	N.W.T.																						
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																	
PETER BAWDEN DRILLING SERVICES LTD.		2	2 3/4	6 1/2 OD	X.H.	E			3 1/4 168758	0	1524	OILWELL	1520	2/0 CAL.																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		No.		MANUFACTURER		TYPE																					
[Signature]		[Signature]		X.H.		10 P/130		G.D.		C.T.P.																					
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve																															
DRILLING		7 1/2		7 3/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4		13 1/4	
TRIPPING																															
RIG MAINTENANCE		1/4		1/4																											
RIG REPAIRS																															
HOLE SURVEYS		1/2		1																											
CONDITIONING MUD																															
CONDITIONING HOLE																															
Reaming & Cleaning To Bottom																															
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
CASING																															
WAITING ON CEMENT																															
HEADING UP & DRILLING OUT																															
MISC. ELONGOUS																															
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS		8		8		8																									
WIRE LINE RECORD		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
REEL No.		10		SIZE 7/8																											
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH																															
TON MI. or TRIPS SINCE LAST CUT																															
CUMULATIVE TON MI. or TRIPS																															
No. OF DAYS FROM SPUD		58																													
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCONT.		121																													
DRILLER ACCONT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR		592																													
EVENING TOUR																															

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 37" 7192 gal.

REPORT No. 57

DATE: MARCH 4 1972

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 34 1244 on Din

REPORT No. 56

DATE: MARCH 3 1972

CONSERVATION BOARD COPY

FORM D-1-67

REPORT No. 33

DATE: MARCH 2. 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		PROVINCE				
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				UNION AMOCO McPHERSON		B-25 N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	5 1/2	6 1/2 OD	E	No. MANUFACTURER TYPE		1. NAT 10P170	13748555	0	1524 oil well	570 2 1/2 CAL
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER										
Charles McPherson		R. Roseth										

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
MORNING TOUR				62 STANDS DP 5803.32 FT.		Drilling or Core Bit No. RR19		6233		21		6254						60		2 1/2		1600		6" 120						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING 5 1/4 7 1/4 7 1/4				2 SNGLS. DP 6152 FT.		TYPE X44		6233		21		6254						60		2 1/2		1600		6" 120						WEIGHT 9.0 9.0 9.0 9.0				
TRIPPING 1 1/2				4 D.C. 9" OD 11361 FT.		SIZE 12 1/4		6233		21		6254						60		2 1/2		1600		6" 120						VISC. 58 63 57 60				
RIG MAINTENANCE 1/4 1/4 1/4				5 8" OD 14927 FT.		NOZZ. SIZE 3/2 1/3		6233		21		6254						60		2 1/2		1600		6" 120						W.L.C.C. 90				
RIG REPAIRS 1/2				3 RMR BOD 6 3/4 OD 8927 FT.		SERIAL No. H2377		6233		21		6254						60		2 1/2		1600		6" 120						FLTR. CK. 2/32				
HOLE SURVEYS 1/2 1/2				2 STB BOD 9 OD 1400 FT.		DEPTH IN 6233		6233		21		6254						60		2 1/2		1600		6" 120						PH 9.5				
CONDITIONING MUD				2 SUBS 5/8 OD 391 FT.		DEPTH OUT 1200 125		6233		21		6254						60		2 1/2		1600		6" 120						SD. CONT. 1P				
CONDITIONING HOLE				1 BIT 5/8 400 FT.		FT. DRILLED 21		6233		21		6254						60		2 1/2		1600		6" 120						MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom 1/2				Kelly Down 1600 FT.		FT. CORED		6233		21		6254						60		2 1/2		1600		6" 120						TYPE AMT. TYPE AMT.				
WORKING OR STUCK PIPE				TOTAL 6254.98 FT.		CUM. HRS. RUN 5 1/4		6233		21		6254						60		2 1/2		1600		6" 120						CAUSTIC 50#				
FISHING				WT OF STRING 168000 LBS.		CONDITION		6233		21		6254						60		2 1/2		1600		6" 120						WATER				
LOST CIRCULATION				DRILLER P. P. Roseth		WEATHER CONDITIONS		6233		21		6254						60		2 1/2		1600		6" 120										
CASING				62 STANDS DP 5896.24 FT.		Drilling or Core Bit No. RR19		6254		41		6295						60		35		1650		6" 188 7/4						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
WAITING ON CEMENT				4 SNGLS. DP 11361 FT.		TYPE X44		6254		41		6295						60		35		1650		6" 188 7/4						WEIGHT 9.0 9.0 9.0 9.0				
HEADING UP & DRILLING OUT				5 8" OD 14927 FT.		NOZZ. SIZE 3/2 1/3		6254		41		6295						60		35		1650		6" 188 7/4						VISC. 55 66 68 59				
MISC. ELLANEOUS				3 RMR BOD 6 3/4 OD 8927 FT.		SERIAL No. H2377		6254		41		6295						60		35		1650		6" 188 7/4						W.L.C.C. 8.0				
SUB TOTAL				2 STB BOD 9 OD 1400 FT.		DEPTH IN 6233		6254		41		6295						60		35		1650		6" 188 7/4						FLTR. CK. 9.5 9.5 9.5 9.0				
DAYWORK HOURS				2 SUBS 5/8 OD 391 FT.		DEPTH OUT 800 815		6254		41		6295						60		35		1650		6" 188 7/4						SD. CONT.				
TOTAL HOURS 10 8 8				1 BIT 5/8 400 FT.		FT. DRILLED 62		6254		41		6295						60		35		1650		6" 188 7/4						MUD & CHEMICALS ADDED				
WIRE LINE RECORD				Kelly Down 2470 FT.		FT. CORED		6254		41		6295						60		35		1650		6" 188 7/4						TYPE AMT. TYPE AMT.				
REEL				TOTAL 6295.00 FT.		CUM. HRS. RUN 12 1/2		6254		41		6295						60		35		1650		6" 188 7/4						Gel 1800#				
No. OF LINES 10 SIZE 1 3/8				WT OF STRING 172000 LBS.		CONDITION INC		6254		41		6295						60		35		1650		6" 188 7/4						BOL. EX 8"				
FEET SLIPPED 45				DRILLER P. Pare		WEATHER CONDITIONS Mild		6254		41		6295						60		35		1650		6" 188 7/4										
FEET CUT OFF				62 STANDS DP 5896.24 FT.		Drilling or Core Bit No. RR19		6295		47		6342						60		20		1650		6" 11 1/4						TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
PRESENT LENGTH				4 SNGLS. DP 6226 FT.		TYPE X44		6295		47		6342						60		20		1650		6" 11 1/4						WEIGHT 9.0 9.0 9.0 9.0				
TON MI. or TRIPS SINCE LAST CUT				5 9" OD 11361 FT.		SIZE 12 1/4		6295		47		6342						60		20		1650		6" 11 1/4						VISC. 54 57 60 62				
CUMULATIVE TON MI. or TRIPS				5 8" OD 14927 FT.		NOZZ. SIZE 3/2 1/3		6295		47		6342						60		20		1650		6" 11 1/4						W.L.C.C. 9.4 9.5 9.5 9.5				
No. OF DAYS FROM SPUD 54				3 RMR BOD 6 3/4 OD 8927 FT.		SERIAL No. H2377		6295		47		6342						60		20		1650		6" 11 1/4						FLTR. CK. 2/32 2/32 2/32 2/32				
DAYS SINCE LAST ACCDNT. 118				2 STB BOD 9 OD 1400 FT.		DEPTH IN 6233		6295		47		6342						60		20		1650		6" 11 1/4						PH 9.0 9.5 9.5 9.5				
DRILLER ACCDNT. FREE DAYS				2 SUBS 5/8 OD 391 FT.		DEPTH OUT 400 600		6295		47		6342						60		20		1650		6" 11 1/4						SD. CONT.				
MORNING TOUR				1 BIT 5/8 1400 FT.		FT. DRILLED 109		6295		47		6342						60		20		1650		6" 11 1/4						MUD & CHEMICALS ADDED				
DAY TOUR 589				Kelly Down 10 FT.		FT. CORED		6295		47		6342						60		20		1650		6" 11 1/4						TYPE AMT. TYPE AMT.				
EVENING TOUR				TOTAL 6342 FT.		CUM. HRS. RUN 19 3/4		6295		47		6342						60		20		1650		6" 11 1/4						Gel 1500#				
				WT OF STRING 170000 LBS.		CONDITION		6295		47		6342						60		20		1650		6" 11 1/4						CAUSTIC 100#				
				DRILLER R. J. Roseth		WEATHER CONDITIONS Mild		6295		47		6342						60		20		1650		6" 11 1/4						HME CORAL 1 GRM				
				62 STANDS DP 5896.24 FT.		Drilling or Core Bit No. RR19		6295		47		6342						60		20		1650		6" 11 1/4						BENEX 6"				
				4 SNGLS. DP 6226 FT.		TYPE X44		6295		47		6342						60		20		1650		6" 11 1/4						WATER				
				5 9" OD 11361 FT.		SIZE 12 1/4		6295		47		6342						60		20		1650		6" 11 1/4										
				5 8" OD 14927 FT.		NOZZ. SIZE 3/2 1/3		6295		47		6342						60		20		1650		6" 11 1/4										
				3 RMR BOD 6 3/4 OD 8927 FT.		SERIAL No. H2377		6295		47		6342						60		20		1650		6" 11 1/4										
				2 STB BOD 9 OD 1400 FT.		DEPTH IN 6233		6295		47		6342						60		20		1650		6" 11 1/4										
				2 SUBS 5/8 OD 391 FT.		DEPTH OUT 400 600		6295		47		6342						60		20		1650		6" 11 1/4										
				1 BIT 5/8 1400 FT.		FT. DRILLED 109		6295		47		6342						60		20		1650		6" 11 1/4										
				Kelly Down 10 FT.		FT. CORED		6295		47		6342						60		20		1650		6" 11 1/4										
				TOTAL 6342 FT.		CUM. HRS. RUN 19 3/4		6295		47		6342						60		20		1650		6" 11 1/4										
				WT OF STRING 170000 LBS.		CONDITION		6295		47		6342						60		20		1650		6" 11 1/4										
				DRILLER R. J. Roseth		WEATHER CONDITIONS Mild		6295		47		6342						60		20		1650		6" 11 1/4										
				62 STANDS DP 5896.24 FT.		Drilling or Core Bit No. RR19		6295		47		6342						60		20		1650		6" 11 1/4										
				4 SNGLS. DP 6226 FT.		TYPE X44		6295		47		6342						60		20		1650		6" 11 1/4										
				5 9" OD 11361 FT.		SIZE 12 1/4		6295		47		6342						60		20		1650		6" 11 1/4										
				5 8" OD 14927 FT.		NOZZ. SIZE 3/2 1/3		6295		47		6342						60		20		1650		6" 11 1/4										
				3 RMR BOD 6 3/4 OD 8927 FT.		SERIAL No. H2377		6295		47		6342						60		20		1650		6" 11 1/4										
				2 STB BOD 9 OD 1400 FT.		DEPTH IN 6233		6295		47		6342						60		20		1650		6" 11 1/4										
				2 SUBS 5/8 OD 391 FT.		DEPTH OUT 400 600		6295		47		6342						60		20		1650		6" 11 1/4										
				1 BIT 5/8 1400 FT.		FT. DRILLED 109		6295		47		6342						60		20		1650		6" 11 1/4										
				Kelly Down 10 FT.		FT. CORED		6295		47		6342						60		20		1650		6" 11 1/4										
				TOTAL 6342 FT.		CUM. HRS. RUN 19 3/4		6295		47		6342						60		20		1650		6" 11 1/4										
				WT OF STRING 170000 LBS.		CONDITION		6295		47		6342						60		20		1650		6" 11 1/4										
				DRILLER R. J. Roseth		WEATHER CONDITIONS Mild		6295		47																								

CONSERVATION BOARD COPY

FORM DI-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 53

DATE: FEB 29 1972

CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 37" 2190

REPORT No. 100-2-100

DATE: FEB 28. 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE			
UNION OIL LTD		PETER BAWDEN DRILLING SERVICES LTD.				2		8 5/8		TOOL JOINT 6 1/2		OD		DRILL PIPE GRADE E		UNION AMOCO McPHERSON		B-25		N.W.T.	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER			
Charles Schneider		H. Rasch		1. VAT 10-P-130		2. G.D. GXR		13 5/8		1855		0		1524		OIL WELL		15.70		2 1/2 bbl.	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		DRILLING		7 1/2		7 1/4		7 1/2		TRIPPING					
RIG MAINTENANCE		1/4						RIG REPAIRS								HOLE SURVEYS		1/2		1/2	
CONDITIONING MUD								CONDITIONING HOLE								Reaming & Cleaning To Bottom					
WORKING OR STUCK PIPE								FISHING								LOST CIRCULATION					
CASING								WAITING ON CEMENT								HEADING UP & DRILLING OUT					
MISC. ELLANEOUS								SUB TOTAL								DAYWORK HOURS					
TOTAL HOURS		8		8		8		WIRELINE RECORD								REEL No.					
No. OF LINES		10		SIZE		13/8		FEET SLIPPED		✓						FEET CUT OFF		✓			
PRESENT LENGTH		2548		TON MI. or TRIPS SINCE LAST CUT		276		CUMULATIVE TON MI. or TRIPS		21593						No. OF DAYS FROM SPUD		51			
CUMULATIVE ROTATING HRS.		835 1/2		DAYS SINCE LAST ACCDNT.		415		DRILLER ACCOUNT. FREE DAYS								MORNING TOUR					
DAY TOUR								EVENING TOUR		586											
FORM DI-1.67																					

Gallons of Diesel Fuel on Hand at 8:00 a.m. 36" 2115

REPORT No. 51

DATE: FEB 27 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE																				
UNION OIL LTD		LSD.						UNION AMOCO McPHERSON		B-25	N.W.T.																				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER																
PETER BAWDEN DRILLING SERVICES LTD.		2		6 1/2		E				13 3/4	8.55	0	1524	OIL WELL	5170																
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		1. MANUFACTURER		TYPE																							
Charles Schneider		G. Roseth		4 1/2 X H		1. NAT		10-P-130																							
						2. G.D.		G X R																							
						3.																									
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		57		STANDS DP 533429		Drilling or Core Bit No. 39		5756		20		5776				20/352400		40				PUMP No. 1		1600		6" 120		5		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
DRILLING 5 7/8		S		SNGLS. DP 3132		TYPE 455		5756		20		5776				20/352400		40				PUMP No. 2						WEIGHT T 9.2 9.2 9.1			
TRIPPING 2 1/2		4		D.C. 9" OD 113.61		SIZE 12 1/4																				VISC. R 62 60 55					
RIG MAINTENANCE 1/4		5		8" OD 149.27		NOZZ. SIZE 1/2 1/3																				W.L.C.C. I 9.2 9.2 9.4					
RIG REPAIRS		3		RMR BODY 8927		SERIAL No. 88925																				FLTR. CK. I 2/32 3/32 2/32					
HOLE SURVEYS 1/2		2		STB BODY 9" OD 1400		DEPTH IN 5756																				pH I 9.5 9.5 10.0					
CONDITIONING MUD		2		SUBS 6 OD 391		DEPTH OUT																				SD. CONT.					
CONDITIONING HOLE		1		BIT SUB 4.00		FT. DRILLED 20																				MUD & CHEMICALS ADDED					
Reaming & Cleaning To Bottom 1/2				Kelly Down 3700		FT. CORED																				TYPE AMT. TYPE AMT.					
WORKING OR STUCK PIPE				TOTAL 5776		CUM. HRS. RUN 5																				GUSIIC 100#					
FISHING				WT OF STRING 16220		CONDITION																									
LOST CIRCULATION				DRILLER		Weather Conditions																									
CASING				58		STANDS DP 542783		Drilling or Core Bit No. 39		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
WAITING ON CEMENT				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 2						WEIGHT 9.1 9.1 9.1 9.1			
HEADING UP & DRILLING OUT				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		VISC. 62 50 60 53			
MISC. ELLANEOUS				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 2						W.L.C.C. 9.2 9.4			
SUB TOTAL				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		FLTR. CK. 3/32 4/32			
DAYWORK HOURS				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 2						pH 10.5 10.0			
TOTAL HOURS 8 8 8				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		SD. CONT.			
WIRE LINE RECORD				1		SUB 4.00		FT. REAMED		5776		39		5815				40		30		PUMP No. 2						MUD & CHEMICALS ADDED			
REEL No.				1		SNGLS. DP 3132		TYPE 455		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		TYPE AMT. TYPE AMT.			
No. OF LINES 10 SIZE 1 3/4				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 2						GEL 3000			
FEET SLIPPED ✓				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		BENEX 12			
FEET CUT OFF ✓				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 2						GILSONITE 200			
PRESENT LENGTH 2548				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 1		1600		6" 120		H.M.F. 30			
TON MI. or TRIPS SINCE LAST CUT 276				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 2									
CUMULATIVE TON MI. or TRIPS 21593				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
No. OF DAYS FROM SPUD 50				1		SNGLS. DP 3132		TYPE 455		5776		39		5815				40		30		PUMP No. 2									
CUMULATIVE ROTATING HRS. 813 1/4				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
DAYS SINCE LAST ACCNT. 114				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 2									
DRILLER ACCNT. FREE DAYS				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
MORNING TOUR				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 2									
DAY TOUR				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
EVENING TOUR 585				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 2									
				1		SUB 4.00		FT. REAMED		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 2									
				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 2									
				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 2									
				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				1		SUB 4.00		FT. REAMED		5776		39		5815				40		30		PUMP No. 2									
				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 2									
				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 2									
				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 2									
				1		SUB 4.00		FT. REAMED		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 2									
				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 2									
				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 2									
				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				1		SUB 4.00		FT. REAMED		5776		39		5815				40		30		PUMP No. 2									
				4		D.C. 9 OD 11361		SIZE 12 1/4		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				5		8 OD 149.27		NOZZ. SIZE 1/2 1/3		5776		39		5815				40		30		PUMP No. 2									
				3		RMR BODY 8927		SERIAL No. 88925		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				2		STB BODY 9" OD 1400		DEPTH IN 5756		5776		39		5815				40		30		PUMP No. 2									
				2		SUBS 6 OD 391		DEPTH OUT		5776		39		5815				40		30		PUMP No. 1		1600		6" 120					
				1		BIT OR C.B. 4.00		FT. DRILLED 59		5776		39		5815				40		30		PUMP No. 2									

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>4-18-21 0:1 LID</i>		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME <i>ANIMATED ALCOHOLIC 8.25</i>		No.		PROVINCE <i>N.W.T</i>				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2nd</i>	DRILL PIPE STRING No. SIZE <i>2.5"</i>	TOOL JOINT <i>6 1/2 OD</i>	DRILL PIPE GRADE <i>E.</i>	PUMPS No. MANUFACTURER TYPE <i>1. NAT 10P.130</i> <i>2. GD G&R</i>		CASING & LINER RECORD <i>133/86TSS</i>	DEPTH SET FROM TO <i>0 1534</i>	TYPE OF CEMENT <i>OKWELL</i>	CEMENT USED <i>15.10</i>	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>										

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD						
Morn	Day	Eve																																	
DRILLING			7 1/2	11 1/2	2 3/4	56	STANDS DP	524091 FT.	Drilling or Core Bit No.	37				563013		5703			110	94			1600	6"	120										
TRIPPING			1	1/4		4	SNGLS. DP	6197 FT.	TYPE	SUN																									
RIG MAINTENANCE						5	D.C. 9" OD	11361 FT.	SIZE	12 1/4																									
RIG REPAIRS						3	RMR BOD 3/4" OD	8927 FT.	NOZZ. SIZE	3/2 1/3																									
HOLE SURVEYS			1/2	1/2		2	STB BOD 9" OD	1400 FT.	SERIAL No.	375610																									
CONDITIONING MUD						2	SUB 4" OD	391 FT.	DEPTH IN	5613																									
CONDITIONING HOLE						1	BIT 8" B.	400 FT.	FT. DRILLED	90																									
Reaming & Cleaning To Bottom			1/2			1	SS	7.12	FT. REAMED																										
WORKING OR STUCK PIPE							Kelly Down	1674	FT. CORED																										
							TOTAL	5703	FT.	CUM. HRS. RUN	9 1/4																								
							WT OF STRING	16600	LBS.	CONDITION																									
							DRILLER	<i>Frank Schmidt</i>																											
							WEATHER CONDITIONS																												

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD					
Morn	Day	Eve																																
FISHING						4	STANDS DP	533422 FT.	Drilling or Core Bit No.	37				5703		5744			110	24			1600	6"	120									
LOST CIRCULATION						5	SNGLS. DP	11361 FT.	TYPE	544																								
CASING						4	D.C. 9" OD	11361 FT.	SIZE	12 1/4																								
WAITING ON CEMENT						5	8" OD	14927 FT.	NOZZ. SIZE	3/2 1/3																								
HEADING UP & DRILLING OUT						3	RMR BOD 3/4" OD	8927 FT.	SERIAL No.	325670																								
MISC. ELLANEOUS						2	STB BOD 9" OD	1400 FT.	DEPTH IN	5613																								
SUB TOTAL						2	SUB 4" OD	391 FT.	DEPTH OUT	5744																								
DAYWORK HOURS						1	BIT 8" B.	400 FT.	FT. DRILLED	133																								
TOTAL HOURS			8	8	8	1	SHOCK	9.12	FT. REAMED																									
							Kelly Down	2600	FT. CORED																									
							TOTAL	5744	FT.	CUM. HRS. RUN	15 3/4																							
							WT OF STRING	16600	LBS.	CONDITION																								
							DRILLER	<i>J. Panguito</i>																										
							WEATHER CONDITIONS																											

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD					
Morn	Day	Eve																																
REEL No.						57	STANDS DP	533422 FT.	Drilling or Core Bit No.	38				5744		5756			120	25			1560	6"	118	23 1/4								
No. OF LINES			10	SIZE	13/8	4	SNGLS. DP	11361 FT.	TYPE	X16																								
FEET SLIPPED			✓			5	D.C. 9" OD	11361 FT.	SIZE	12 1/4																								
FEET CUT OFF			✓			3	8" OD	14927 FT.	NOZZ. SIZE	3/2 1/3																								
PRESENT LENGTH			2548			2	RMR BOD 3/4" OD	8927 FT.	SERIAL No.	KM821																								
TON MI. or TRIPS SINCE LAST CUT			238			2	STB BOD 9" OD	1400 FT.	DEPTH IN	5744																								
CUMULATIVE TON MI. or TRIPS			21533			2	SUB 4" OD	391 FT.	DEPTH OUT	5756																								
No. OF DAYS FROM SPUD			49			1	BIT 8" B.	400 FT.	FT. DRILLED	12																								
CUMULATIVE ROTATING HRS.			793			1	S.S.	9.12	FT. REAMED																									
DAYS SINCE LAST ACCDNT.			113				Kelly Down	3860	FT. CORED																									
DRILLER ACCDNT. FREE DAYS							TOTAL	575600	FT.	CUM. HRS. RUN	234																							
MORNING TOUR							WT OF STRING	166000	LBS.	CONDITION	731																							
DAY TOUR							DRILLER	<i>P. Pano</i>																										
EVENING TOUR			584				WEATHER CONDITIONS																											

FORM D-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

2190 cdb

REPORT No. 49

DATE: Feb 25

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LS.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION 4800 McPHERSON							B-25		MANIT				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	25 1/2	TYPE THD. 4 1/2 x 4		F	No. MANUFACTURER TYPE		1. 1.6T 10P130	13 1/4	155	0 1524		15-70	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		E. Roseth											
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE									
DRILLING		6 1/2		7 3/4											
TRIPPING		1 1/2		3 1/4											
RIG MAINTENANCE		1 1/4		1 1/4											
RIG REPAIRS															
HOLE SURVEYS		1 1/2		3 1/4											
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom		1 1/4		1 1/2											
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
SLIP CUT ELONGATE															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8		8		8									
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10		SIZE 1 3/8											
FEET SLIPPED		45													
FEET CUT OFF		90													
PRESENT LENGTH		2548													
TON MI. or TRIPS SINCE LAST CUT		1053													
CUMULATIVE TON MI. or TRIPS		21302													
No. OF DAYS FROM SPUD.		48													
CUMULATIVE ROTATING HRS.		776 1/4													
DAYS SINCE LAST ACCNT.		112													
DRILLER ACCNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR		583													

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2190

REPORT No. 49

DATE: FEB 24

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE																			
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				44104 AMOLO McPherson		B-25		N.W.T.																			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD 4 1/2 x 1 1/2		No. MANUFACTURER TYPE			3 3/4 x 5 1/2	0 1524		15.70																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. HWT 10 P 130																							
		H. Russell				2. G-D GXR																							
3. G-D GXR																													
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		53 STANDS DP 49.42 FT.		Drilling or Core Bit No. 35		5323		57		5390						110 24		1700		6"		120		5		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
DRILLING 5 14 4		4 SNGLS. DP 9 1/2 OD 113.61 FT.		TYPE 544		5323		57		5390						110 24		1700		6"		120		5		WEIGHT 91 9.0 9.1			
TRIPPING 2 3		5 8" OD 149.27 FT.		NOZZ. SIZE 2 1/2 x 3		5323		57		5390						110 24		1700		6"		120		5		VISC. 95 72 62			
RIG MAINTENANCE 1/2 1/4 1/4		3 RMR BODY OD 69.27 FT.		SERIAL No. 375768		5323		57		5390						110 24		1700		6"		120		5		W.L.C.C. 9.6 9.6			
RIG REPAIRS		2 STB BODY OD 14.00 FT.		DEPTH IN 5323		5323		57		5390						110 24		1700		6"		120		5		FLTR. CK. 2 1/2 2 1/2			
HOLE SURVEYS 1/2 3/4		2 SUBS OD 3.91 FT.		DEPTH OUT 5323		5323		57		5390						110 24		1700		6"		120		5		PH 9.5 9.5 9.5			
CONDITIONING MUD		1 BIT OD 4.00 FT.		FT. DRILLED 57		5323		57		5390						110 24		1700		6"		120		5		SD. CONT.			
CONDITIONING HOLE		1 SHOCK 9.12 FT.		FT. REAMED 57		5323		57		5390						110 24		1700		6"		120		5					
Reaming & Clearing To Bottom 1/2		Kelly Down 3508 FT.		FT. CORED 57		5323		57		5390						110 24		1700		6"		120		5					
WORKING OR STUCK PIPE		TOTAL 5380 FT.		CUM. HRS. RUN 5		5323		57		5390						110 24		1700		6"		120		5					
FISHING		WT OF STRING 162.00 LBS.		CONDITION		5323		57		5390						110 24		1700		6"		120		5					
LUST CIRCULATION		DRILLER H. Russell		WEATHER CONDITIONS		5323		57		5390						110 24		1700		6"		120		5					
CASING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
WAITING ON CEMENT		53 STANDS DP 49.42 FT.		Drilling or Core Bit No. 35		5380		67		5447						110 24		1700		6"		120				TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
HEADING UP & DRILLING OUT		2 SNGLS. DP 6.09 FT.		TYPE 544		5380		67		5447						110 24		1700		6"		120				WEIGHT 90 9.0 9.0 9.0			
MISC ELLANEOUS		4 11361 OD 113.61 FT.		SIZE 12 1/4		5380		67		5447						110 24		1700		6"		120				VISC. 62 57 55 55			
SUB TOTAL		5 14924 OD 149.24 FT.		NOZZ. SIZE 2 1/2 x 3		5380		67		5447						110 24		1700		6"		120				W.L.C.C. 10.2 9.6			
DAYWORK HOURS		3 RMR BODY OD 89.24 FT.		SERIAL No. 375768		5380		67		5447						110 24		1700		6"		120				FLTR. CK. 2 1/2 2 1/2			
TOTAL HOURS 8 8 8		2 STB BODY OD 14.00 FT.		DEPTH IN 5323		5380		67		5447						110 24		1700		6"		120				PH 9.3 9.5			
WIRE LINE RECORD		2 SUBS OD 3.91 FT.		DEPTH OUT 5323		5380		67		5447						110 24		1700		6"		120				SD. CONT.			
REEL No.		1 BIT OD 4.00 FT.		FT. DRILLED 124		5380		67		5447						110 24		1700		6"		120							
No. OF LINES 10 SIZE 3/8		1 SHOCK 9.12 FT.		FT. REAMED 124		5380		67		5447						110 24		1700		6"		120							
FEET SLIPPED 45		Kelly Down 4300 FT.		FT. CORED 124		5380		67		5447						110 24		1700		6"		120							
FEET CUT OFF		TOTAL 5447 FT.		CUM. HRS. RUN 12 1/4		5380		67		5447						110 24		1700		6"		120							
PRESENT LENGTH 2638		WT OF STRING 162.00 LBS.		CONDITION		5380		67		5447						110 24		1700		6"		120							
TON MI. OF TRIPS SINCE LAST C.T. 905		DRILLER H. Russell		WEATHER CONDITIONS		5380		67		5447						110 24		1700		6"		120							
CUMULATIVE TON MI. OF TRIPS 21151		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
MORNING TOUR		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
DAY TOUR		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
EVENING TOUR 582		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700		6"		120							
		No. OF DAYS FROM SPUD 47				5380		67		5447						110 24		1700		6"		120							
		CUMULATIVE ROTATING HRS. 747				5380		67		5447						110 24		1700		6"		120							
		DAYS SINCE LAST ACCNT. 171				5380		67		5447						110 24		1700		6"		120							
		DRILLER ACCNT. FREE DAYS				5380		67		5447						110 24		1700											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL LTD														UNION AMOCO McPHERSON		B-25		N.W.T.							
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT 6 1/2 OD		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		#2		2 5		TYPE THD 1 1/2 X 1 1/2				No. MANUFACTURER TYPE		1. NAT 10-P-130		2. G-D GXR				FROM TO				12-70			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
PETER BAWDEN		H. Russell																							
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																			
DRILLING		5 1/2		6																					
TRIPPING		2 1/4		13 1/4																					
RIG MAINTENANCE		1/4																							
RIG REPAIRS																									
HOLE SURVEYS		1/2		1/4																					
CONDITIONING MUD																									
CONDITIONING HOLE																									
Reaming & Cleaning To Bottom		1/2																							
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELLANEOUS																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		8		8																					
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE 1 3/8																					
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. or TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. or TRIPS																									
No. OF DAYS FROM SPUD		46																							
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.		100																							
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 =		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
51 STANDS DP 4773.56 FT.		Drilling or Core Bit No. 34		5200		55		5255						110		324		1700		6"		120		5 1/2	
1 SNGLS. DP 31.74 FT.		TYPE X16																							
4 D.C. 9" OD 113.61 FT.		SIZE 12 1/4																							
5 8" OD 149.27 FT.		NOZZ. SIZE 3/2 1/3																							
3 RMR BOD 1/4 89.27 FT.		SERIAL No. 36472																							
2 STB BOD 9" OD 14.00 FT.		DEPTH IN 5200																							
2 SUBS 1/4 OD 3.91 FT.		DEPTH OUT 1200																							
1 BIT 5/8 B. 4.00 FT.		FT. DRILLED 55																							
1 SHOCKS 9.12 FT.		FT. REAMED 55																							
Kelly Down 36 FT.		FT. CORED 100																							
TOTAL 5255 FT.		CUM. HRS. RUN 5																							
WT OF STRING 123,000 LBS.		CONDITION																							
DRILLER Ron Chambers																									
WEATHER CONDITIONS mild + very windy																									
2 Boilers 8 Hrs																									
WATER BY THE GALS.																									
52 STANDS DP 4184.14 FT.		Drilling or Core Bit No. 34		5255		40		5295						110		324		1600		6"		120			
1 SNGLS. DP 31.38 FT.		TYPE X16																							
4 D.C. 8 1/2 OD 113.61 FT.		SIZE 12 1/4																							
5 8" OD 149.27 FT.		NOZZ. SIZE 3/2 1/3																							
3 RMR BOD 1/4 89.27 FT.		SERIAL No. 36472																							
2 STB BOD 9" OD 14.00 FT.		DEPTH IN 5200																							
2 SUBS 1/4 OD 3.91 FT.		DEPTH OUT 5200																							
1 BIT 5/8 B. 4.00 FT.		FT. DRILLED 95																							
1 SHOCKS 9.12 FT.		FT. REAMED 95																							
Kelly Down 1300 FT.		FT. CORED 830																							
TOTAL 5295 FT.		CUM. HRS. RUN 12 1/2																							
WT OF STRING 158,000 LBS.		CONDITION																							
DRILLER Ron Chambers																									
WEATHER CONDITIONS																									
Run DESILTER 8 Hrs																									
WATER																									
52 STANDS DP 4045.14 FT.		Drilling or Core Bit No. 34		5295		28		5323						110		324		1700		6"		120			
1 SNGLS. DP 31.74 FT.		TYPE X16																							
4 D.C. 9" OD 113.61 FT.		SIZE 12 1/4																							
5 8" OD 149.27 FT.		NOZZ. SIZE 3/2 1/3																							
3 RMR BOD 1/4 89.27 FT.		SERIAL No. 36472																							
2 STB BOD 9" OD 14.00 FT.		DEPTH IN 5200																							
2 SUBS 1/4 OD 3.91 FT.		DEPTH OUT 5323																							
1 BIT 5/8 B. 4.00 FT.		FT. DRILLED 123																							
1 SHOCKS 9.12 FT.		FT. REAMED 123																							
Kelly Down 4100 FT.		FT. CORED 1015																							
TOTAL 5323 FT.		CUM. HRS. RUN 18 1/2																							
WT OF STRING		LBS.																							
DRILLER J. Russell																									
WEATHER CONDITIONS																									
Desilter																									
2 Boilers 8																									
WATER																									
52 STANDS DP 4045.14 FT.		Drilling or Core Bit No. 34		5295		28		5323						110		324		1700		6"		120			
1 SNGLS. DP 31.74 FT.		TYPE X16																							
4 D.C. 9" OD 113.61 FT.		SIZE 12 1/4																							
5 8" OD 149.27 FT.		NOZZ. SIZE 3/2 1/3																							
3 RMR BOD 1/4 89.27 FT.		SERIAL No. 36472																							
2 STB BOD 9" OD 14.00 FT.		DEPTH IN 5200																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LS.D.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION AMOCO McDERSON		B-25		N.W.T									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD 1/2 XH	E	No. MANUFACTURER TYPE		1. NAT 10-P-130	2. G-D. GXR	3 3/8	68355	0 1524		1570	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Schmeckel		H. Roseth													
TIME DISTRIBUTION—HOURS															
Morn Day Eve															
DRILLING		5 3/4 7 1/2 5 1/2													
TRIPPING		1 1/4 2													
RIG MAINTENANCE		1/4 1/4													
RIG REPAIRS															
HOLE SURVEYS		3 1/4													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom		3 1/4													
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		88													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10 SIZE 3/8													
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON MI. or TRIPS SINCE LAST CUT															
CUMULATIVE TON MI. or TRIPS															
No. OF DAYS FROM SPUD		45													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCDNT.		109													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR															
FORM D1-1.67															

Gallons of Diesel Fuel on Hand at 8:00 a.m.

36" 2115

REPORT No.

445

DATE:

FEB 21, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE					
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				UNION AMOCO McPHERSON.		B-25		N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 5"	6 1/2	OD	E	No. MANUFACTURER TYPE					FROM TO		1570	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. NAT 10-P-130		2. E-D EXR							
Charles Schneider		J. Russell													
TIME DISTRIBUTION—HOURS															
Morn Day Eve															
DRILLING		4 3/4 1/2 4													
TRIPPING		3 1/4 3 1/2													
RIG MAINTENANCE		1/4 1/2 1/4													
RIG REPAIRS															
HOLE SURVEYS		1/4 1/4													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom		2													
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 1/2													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10 SIZE 1 3/8													
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON MI. or TRIPS SINCE LAST CUT															
CUMULATIVE TON MI. or TRIPS															
No. OF DAYS FROM SPUD		4 1/4													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCDNT.		108													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR															
FORM D1—1-67															

Gallons of Diesel Fuel on Hand at 8:00 a.m. 40" 2413 Gal's.

REPORT No. 144

DESILTER.
2. Boilers

DATE: FEB 20, 72

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No. 43

DATE: FEB 19, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																					
UNION OIL LTD.		LSD.						UNION AMOCO McPHERSON	B-25	N.W.T.																					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																	
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD 4 1/2 XH	E				3 3/8	68 535	0 1524		15 70																		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
Charles Bawden		G. Roseth																													
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		47		STANDS DP 4406.89 FT.		Drilling or Core Bit No. 30		4804		34				4838				95 20		68 20		1450		6"		120		5		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
DRILLING 5 1/2		1		SNGLS. DP 31.17 FT.		TYPE 5T35		4804		34				4838				95 20		68 20		1450		6"		120		5		WEIGHT 9.3 9.3 9.3	
TRIPPING 1		4		D.C. 9" OD 113.62 FT.		SIZE 12 1/4																								VISC. 80 60 62	
RIG MAINTENANCE 1/4		2		RMR BODY 6 3/4 OD 89.27 FT.		NOZZ. SIZE 3/4 1 1/11																								W.L.-C.C. 8.6 8.6 8.6	
RIG REPAIRS		2		STB BODY 9" OD 14.00 FT.		SERIAL No. 214413																								FLTR. CK. 3/32 3/32 3/32	
HOLE SURVEYS 5 1/2		2		SUBS 1/2 OD 3.91 FT.		DEPTH IN 4804																								pH 9.5 9.5 9.5	
CONDITIONING MUD		1		BIT 5/8 B. 4.00 FT.		FT. DRILLED 34																								SD. CONT.	
CONDITIONING HOLE		1		5" RMR 9.55 FT.		FT. REAMED																									
Reaming & Cleaning To Bottom 1 3/4		1		5" RMR 9.55 FT.		FT. REAMED																									
WORKING OR STUCK PIPE		1		Kelly Down 13. FT.		FT. CORED																									
FISHING		1		TOTAL 4838 FT.		CUM. HRS. RUN 5																									
LOST CIRCULATION		1		WT OF STRING 122,000 LBS.		CONDITION DRL																									
CASING		1		DRILLER Ron Shonker		WEATHER CONDITIONS Cold																									
WAITING ON CEMENT		1		DESILTER 5 HRS		2 BOILER 8 HRS.																									
HEADING UP & DRILLING OUT		1		MUD & CHEMICALS ADDED																											
MISC. ELANEOUS		1		TYPE AMT. TYPE AMT.																											
SUB TOTAL		1		GEL 2200 #																											
DAYWORK HOURS		1		BENEX 8 #																											
TOTAL HOURS 8 1/2		1		CAUSTIC 50 #																											
WIRE LINE RECORD		1																													
REEL No.		1																													
No. OF LINES 10 SIZE 1 3/8		1																													
FEET SLIPPED		1																													
FEET CUT OFF		1																													
PRESENT LENGTH 2628		1																													
TON MI. OF TRIPS SINCE LAST CUT 13		1																													
CUMULATIVE TON MI. OF TRIPS 20392		1																													
No. OF DAYS FROM SPUD 42		1																													
CUMULATIVE ROTATING HRS. 106		1																													
DAYS SINCE LAST ACCDNT. 106		1																													
DRILLER ACCDNT. FREE DAYS		1																													
MORNING TOUR Lots		1																													
DAY TOUR		1																													
EVENING TOUR		1																													

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No.

DATE:

FEB 17, 72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 40

DATE: FEB 16, 72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 39

DATE: FEB 15/72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2264 Pals

REPORT No. 38

DATE: FEB 14/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE																																	
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER																													
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				No.	MANUFACTURER	TYPE			FROM	TO																															
UNION OIL LTD		UNION ANDCO McPHERSON				B-25		N. W. T.																																			
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	6 1/2" OD	F.			13488355	0	1524	OKWELL	1570	2 1/2	Bel.																													
Charles Schneider		H. Roseth				1.	NAT	10-F-130																																			
						2.	G-D	GXR																																			
						3.																																					
TIME DISTRIBUTION—HOURS																																											
	Morn	Day	Eve																																								
DRILLING	4 1/2	6 3/4	3 1/4																																								
TRIPPING	1 3/4	3 1/2																																									
RIG MAINTENANCE	1 1/4	1 1/4																																									
SLIP LINE			1 1/2																																								
HOLE SURVEYS		1 1/4																																									
CONDITIONING MUD																																											
CONDITIONING HOLE																																											
Reaming & Cleaning To Bottom	1/2	1/2																																									
WORKING OR STUCK PIPE																																											
FISHING																																											
LCST CIRCULATION																																											
CASING																																											
WAITING ON CEMENT																																											
HEADING UP & DRILLING OUT																																											
MISC. ELLENEOUS	1																																										
SUB TOTAL																																											
DAYWORK HOURS																																											
TOTAL HOURS	8	8	8																																								
WIRE LINE RECORD																																											
REEL No.																																											
No. OF LINES	10	SIZE	7/8																																								
FEET SLIPPED	45																																										
FEET CUT OFF																																											
PRESENT LENGTH	2728																																										
TON MI. OF TRIPS SINCE LAST CUT	587																																										
CUMULATIVE TON MI. OF TRIPS	19859																																										
No. OF DAYS FROM SPUD	37																																										
CUMULATIVE ROTATING HRS.																																											
DAYS SINCE LAST ACCDNT.	101																																										
DRILLER ACCDNT. FREE DAYS																																											
MORNING TOUR	578																																										
DAY TOUR																																											
EVENING TOUR																																											
No. DRILLING ASSEMBLY				BIT RECORD				Depth At Beginning of Tour				Drilled This Tour				Cored or Reamed This Tour				Depth At End of Tour				FORMATION (SHOW CORE RECOVERY)				ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
40 STANDS DP 3811.11 FT.				Drilling or Core Bit No. 25				4181				45				4226								96		158		1580		6"		120		5		TIME 1st HR. 3rd HR. 5th HR. 7th HR.							
2 SNGLS. DP 113.63 FT.				TYPE XDG																												WEIGHT T 9.2 9.1											
4 D.C. 8" OD 145.27 FT.				SIZE 12 1/4																												VISC. R 4.3 4.1											
5 8" OD 89.27 FT.				NOZZ. SIZE 3/2 1/3																												W.L.C.C. 9.6 9.8											
3 RMR BODY 8" OD 14.00 FT.				SERIAL No. 38033																												FLTR. CK. 3/32 3/32											
2 STB BODY 8" OD 14.00 FT.				DEPTH IN 4181																												pH 9.5 9.5											
2 SUBS 8" OD 39.1 FT.				DEPTH OUT 1200.125																												SD. CONT.											
1 BIT 8" OD 4.00 FT.				FT. DRILLED 45																																							
1 SRR 8" OD 7.55 FT.				FT. REAMED																																							
Kelly Down 25.14 FT.				FT. CORED																																							
TOTAL 4226.00 FT.				CUM. HRS. RUN 442																																							
WT OF STRING 145.000 LBS.				CONDITION INC																																							
DRILLER: P. Rose																																											
WEATHER CONDITIONS: Cold & Windy																																											
REMARKS: (STB @ 60' & 90' S.S. @ 90' & 5. RMR @ 180') 1 3/4 RUN IN BIT # 25 & PICK UP STB & PUT ONE NEW RUBBER ON THAW OUT KELLY HOSE & KELLY 1/2 CLEAN 20' OF FILL 4 1/2 DRILL 12 1/4" HOLE																																											
BOP. DRILL DESIKTER 5 HRS TIAGA 8 HRS 2 BOILERS 8 HRS.																																											
No. DRILLING ASSEMBLY				BIT RECORD				Depth At Beginning of Tour				Drilled This Tour				Cored or Reamed This Tour				Depth At End of Tour				FORMATION (SHOW CORE RECOVERY)				ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
41 STANDS DP 3842.04 FT.				Drilling or Core Bit No. 25				4226				5244				4278								96		158		1650		6"		120		374		TIME 1st HR. 3rd HR. 5th HR. 7th HR.							
4 SNGLS. DP 31.20 FT.				TYPE XDG																														WEIGHT 9.1 9.1 9.1 9.1									
4 D.C. 8" OD 113.63 FT.				SIZE 12 1/4																														VISC. 4.5 4.7 5.5 5.0									
5 8" OD 149.27 FT.				NOZZ. SIZE 3/2 1/3																														W.L.C.C. 9.8 9.8 9.8 9.8									
3 RMR BODY 8" OD 89.27 FT.				SERIAL No. 38033																														FLTR. CK. 3/32 3/32 3/32 3/32									
2 STB BODY 8" OD 14.00 FT.				DEPTH IN 4181																														pH 7.5 9.2 9.8 9.8									
2 SUBS 8" OD 3.91 FT.				DEPTH OUT 800.100																														SD. CONT.									
1 BIT 8" OD 4.00 FT.				FT. DRILLED 97 1/4																																							
1 SRR 8" OD 7.55 FT.				FT. REAMED																																							
Kelly Down 15 FT.				FT. CORED																																							
TOTAL 4278 FT.				CUM. HRS. RUN 11 1/4																																							
WT OF STRING 148.100 LBS.				CONDITION																																							
DRILLER: Ron Chambers																																											
WEATHER CONDITIONS: Cold & Windy																																											
REMARKS: DRILL 12 1/4" HOLE 1/4 RIG SERV BOPS + Blow out DRILL SAT. SURVEY DRILL 12 1/4" HOLE SURVEY DRILL 12 1/4" HOLE																																											
DESIKTER 4 HRS. UNDER FLOW - 14.6 OVER FLOW - 9.0 TIAGA 6 HRS. 2 BOILERS 8 HRS.																																											
No. DRILLING ASSEMBLY				BIT RECORD				Depth At Beginning of Tour				Drilled This Tour				Cored or Reamed This Tour				Depth At End of Tour				FORMATION (SHOW CORE RECOVERY)				ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
41 STANDS DP 3842.04 FT.				Drilling or Core Bit No. 25				4226				5244				4278								96		158		1650		6"		120		374		TIME 1st HR. 3rd HR. 5th HR. 7th HR.							
4 SNGLS. DP 31.20 FT.				TYPE XDG																														WEIGHT 9.1 9.1 9.1 9.1									
4 D.C. 8" OD 113.63 FT.				SIZE 12 1/4																														VISC. 4.5 4.7 5.5 5.0									
5 8" OD 149.27 FT.				NOZZ. SIZE 3/2 1/3																														W.L.C.C. 9.8 9.8 9.8 9.8									
3 RMR BODY 8" OD 89.27 FT.				SERIAL No. 38033																														FLTR. CK. 3/32 3/32 3/32 3/32									
2 STB BODY 8" OD 14.00 FT.				DEPTH IN 4181																														pH 7.5 9.2 9.8 9.8									
2 SUBS 8" OD 3.91 FT.				DEPTH OUT 800.100																														SD. CONT.									
1 BIT 8" OD 4.00 FT.				FT. DRILLED 97 1/4																																							
1 SRR 8" OD 7.55 FT.				FT. REAMED																																							
Kelly Down 15 FT.				FT. CORED																																							
TOTAL 4278 FT.				CUM. HRS. RUN 11 1/4																																							
WT OF STRING 148.100 LBS.				CONDITION																																							
DRILLER: Ron Chambers																																											
WEATHER CONDITIONS: Cold & Windy																																											
REMARKS: DRILL 12 1/4" HOLE 1/4 RIG SERV BOPS + Blow out DRILL SAT. SURVEY DRILL 12 1/4" HOLE SURVEY DRILL 12 1/4" HOLE																																											
DESIKTER 4 HRS. UNDER FLOW - 14.6 OVER FLOW - 9.0 TIAGA 6 HRS. 2 BOILERS 8 HRS.																																											
No. DRILLING ASSEMBLY				BIT RECORD				Depth At Beginning of Tour				Drilled This Tour				Cored or Reamed This Tour				Depth At End of Tour				FORMATION (SHOW CORE RECOVERY)				ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
41 STANDS DP 3842.04 FT.				Drilling or Core Bit No. 25				4226				5244				4278								96		158		1650		6"		120		374		TIME 1st HR. 3rd HR. 5th HR. 7th HR.							
4 SNGLS. DP 31.20 FT.				TYPE XDG																														WEIGHT 9.1 9.1 9.1 9.1									
4 D.C. 8" OD 113.63 FT.				SIZE 12 1/4																														VISC. 4.5 4.7 5.5 5.0									
5 8" OD 149.27 FT.				NOZZ. SIZE 3/2 1/3																														W.L.C.C. 9.8 9.8 9.8 9.8									
3 RMR BODY 8" OD 89.27 FT.				SERIAL No. 38033																														FLTR. CK. 3/32 3/32 3/32 3/32									
2 STB BODY 8" OD 14.00 FT.				DEPTH IN 4181																														pH 7.5 9.2 9.8 9.8									
2 SUBS 8" OD 3.91 FT.				DEPTH OUT 800.100																														SD. CONT.									
1 BIT 8" OD 4.00 FT.				FT. DRILLED 97 1/4																																							
1 SRR 8" OD 7.55 FT.				FT. REAMED																																							
Kelly Down 15 FT.				FT. CORED																																							
TOTAL 4278 FT.				CUM. HRS. RUN 11 1/4																																							
WT OF STRING 148.100 LBS.				CONDITION																																							
DRILLER: Ron Chambers																																											
WEATHER CONDITIONS: Cold & Windy																																											
REMARKS: DRILL 12 1/4" HOLE 1/4 RIG SERV BOPS + Blow out DRILL SAT. SURVEY DRILL 12 1/4" HOLE SURVEY DRILL 12 1/4" HOLE																																											
DESIKTER 4 HRS. UNDER FLOW - 14.6 OVER FLOW - 9.0 TIAGA 6 HRS. 2 BOILERS 8 HRS.																																											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE															
UNION OIL LTD		UNION AMOCO McPHERSON							B-25		N. W. T.															
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	6 1/2" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER											
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	TYPE THD.	XH	E	No. MANUFACTURER TYPE		1. NAT 10-P-130			0 1524	OILWELL	1570	2% Gel.											
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																								
H. Schneider		H. Roseth																								
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn Day Eve		39 STANDS DP 3686.23 FT.		Drilling or Core Bit No. 23 24		4040		42		4082		4082				96	175	1700	6"	120	4 1/4	TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING 3 3/4 7 5 1/4		1 SNGLS. DP 113.63 FT.		TYPE SUH XDG		4040		42		4082		4082										WEIGHT 9.0 9.0 9.0 9.1				
TRIPPING 2 3/4 1 3/4		4 D.C. 8" OD 149.27 FT.		SIZE 12 1/4 12 1/4		4040		42		4082		4082										VISC. 43 44 44 51				
RIG MAINTENANCE 1/4 1/4 1/4		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12 3/12		4040		42		4082		4082										W.L.-C.C. 9.4 9.4 9.4 9.4				
RIG REPAIRS		3 RMP BODY 8 3/4" OD 89.27 FT.		SERIAL No. 44022 38030		4040		42		4082		4082										FLTR. CK. 732 732 732 732				
HOLE SURVEYS 3/4 3/4 3/4		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896 4045		4040		42		4082		4082										pH 9.0 9.0 9.0 9.0				
CONDITIONING MUD		2 SUBS 6" OD 3.91 FT.		DEPTH OUT 4045		4040		42		4082		4082										SD. CONT.				
CONDITIONING HOLE		1 BIT 5" OD 4.00 FT.		FT. DRILLED 149 37		4040		42		4082		4082										MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom 1/2		1 5.5" Kelly Down 7.55 FT.		FT. REAMED 100 215		4040		42		4082		4082										TYPE AMT. TYPE AMT.				
WORKING OR STUCK PIPE		TOTAL 4082.00 FT.		CUM. HRS. RUN 26 1/3		4040		42		4082		4082										BARITE 1700				
FISHING		WT OF STRING 1380 LBS.		CONDITION 5-3-1 INC 400 430		4040		42		4082		4082										GEL 900				
LOST CIRCULATION		DRILLER D. Page		430 715		4040		42		4082		4082										CAUSTIC 50				
CASING		WEATHER CONDITIONS 35 BELOW		715 245		4040		42		4082		4082										BENEX 4				
WAITING ON CEMENT		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
HEADING UP & DRILLING OUT		40 STANDS DP 3749.06 FT.		Drilling or Core Bit No. 24		4082		58		4140		4140				95	15	1700	6"	120	7	TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
MISC. ELLANEOUS		1 SNGLS. DP 113.63 FT.		TYPE XDG		4082		58		4140		4140										WEIGHT 9.1 9.1 9.1 9.1				
SUB TOTAL		4 D.C. 8" OD 149.27 FT.		SIZE 12 1/4		4082		58		4140		4140										VISC. 53 60 54 55				
DAYWORK HOURS		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		4082		58		4140		4140										W.L.-C.C. 10.0 9.8 10.0 10.0				
TOTAL HOURS 8 8		3 RMP BODY 8 3/4" OD 89.27 FT.		SERIAL No. 38030		4082		58		4140		4140										FLTR. CK. 732 732 732 732				
WIRE LINE RECORD		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 4045		4082		58		4140		4140										pH 9.3 9.3 9.5 9.5				
REEL No.		2 SUBS 6" OD 3.91 FT.		DEPTH OUT 800 115		4082		58		4140		4140										SD. CONT.				
No. OF LINES 10 SIZE 1 3/8		1 BIT 5" OD 4.00 FT.		FT. DRILLED 95		4082		58		4140		4140										MUD & CHEMICALS ADDED				
FEET SLIPPED —		1 5.5" Kelly Down 7.55 FT.		FT. REAMED 115 130		4082		58		4140		4140										TYPE AMT. TYPE AMT.				
FEET CUT OFF —		TOTAL 4140 FT.		CUM. HRS. RUN 10		4082		58		4140		4140										GEL - 1000				
PRESENT LENGTH 2773		WT OF STRING 1400 LBS.		CONDITION		4082		58		4140		4140										CAUSTIC - 50				
TON MI. or TRIPS SINCE LAST CUT 387		DRILLER Ron Chambers		430 715		4082		58		4140		4140										BENEX - 4				
CUMULATIVE TON MI. or TRIPS 191644		WEATHER CONDITIONS Cold + Windy		715 245		4082		58		4140		4140										GELATER				
No. OF DAYS FROM SPUD 36		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
CUMULATIVE ROTATING HRS. 583 3/4		40 STANDS DP 3749.08 FT.		Drilling or Core Bit No. 24		4170		60		4170		4170				85	15	1800	6"	23	5 1/4	TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DAYS SINCE LAST ACCDNT. 100		1 SNGLS. DP 113.63 FT.		TYPE XDG		4170		60		4170		4170										WEIGHT 9.1 9.1 9.1 9.1				
DRILLER ACCDNT. FREE DAYS		4 D.C. 8" OD 149.27 FT.		SIZE 12 1/4		4170		60		4170		4170										VISC. 56 55 51				
MORNING TOUR 577		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		4170		60		4170		4170										W.L.-C.C. 9.2 9.2 9.2				
DAY TOUR		3 RMP BODY 8 3/4" OD 89.27 FT.		SERIAL No. 38030		4170		60		4170		4170										FLTR. CK. 732 732 732 732				
EVENING TOUR		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 4045		4170		60		4170		4170										pH 10 10 10				
		2 SUBS 6" OD 3.91 FT.		DEPTH OUT 4081		4170		60		4170		4170										SD. CONT.				
		1 BIT 5" OD 4.00 FT.		FT. DRILLED 136		4170		60		4170		4170										MUD & CHEMICALS ADDED				
		1 5.5" Kelly Down 7.55 FT.		FT. REAMED 300 820		4170		60		4170		4170										TYPE AMT. TYPE AMT.				
		TOTAL 4181 FT.		CUM. HRS. RUN 15 1/4		4170		60		4170		4170										BARITE 1100				
		WT OF STRING 1400 LBS.		CONDITION 5-2-1		4170		60		4170		4170										GEL 500				
		DRILLER J. Schmitt		430 715		4170		60		4170		4170										BENEX 2				
		WEATHER CONDITIONS		1015 200		4170		60		4170		4170										UNDER FLOW 11.8				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE				
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				UNION AMCO McPHERSON		B-25		N. W. T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 1 1/2" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	TYPE THD. X.H.	E	No. MANUFACTURER TYPE		1. NAT 10-P-130					1570	2% bel
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				2. G-D GXR								
Charles Schneider		H Roseth												

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn Day Eve				38 STANDS DP 3562.75 FT.		Drilling or Core Bit No. 23		3918		44		3962						20		5 1/2		1700		6"		118		7		TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING 7 7 1/2 7				4 SNGLS. DP 113.63 FT.		TYPE SUH		3918		44		3962						20		5 1/2		1700		6"		118		7		WEIGHT 9.1 9.1 9.0 9.1				
TRIPPING				5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		3918		44		3962						20		5 1/2		1700		6"		118		7		VISC. 48 46 65 61				
RIG MAINTENANCE 1/4				3 RMR BODY 8 3/4" OD 89.27 FT.		SERIAL No. H4022		3918		44		3962						20		5 1/2		1700		6"		118		7		W.L.-C.C. 9.2 9.2 - 9.2				
RIG REPAIRS				1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896		3918		44		3962						20		5 1/2		1700		6"		118		7		FLTR. CK.				
HOLE SURVEYS 1 1/4 1				2 SUBS 10" OD 3.91 FT.		DEPTH OUT 1200330		3 1/2		DRILL 12 1/4" HOLE								20		5 1/2		1700		6"		118		7		pH 8.5 8.5 9.0 9.0				
CONDITIONING MUD				1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 66		330400		1/2		SURVEY @ 3946						20		5 1/2		1700		6"		118		7		SD. CONT.				
CONDITIONING HOLE				1 S.S. 9.12 FT.		FT. REAMED 400430		400430		1/2		DRILL 12 1/4" HOLE						20		5 1/2		1700		6"		118		7		MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom				TOTAL 3962.00		CUM. HRS. RUN 11		500800		3		DRILL 12 1/4" HOLE						20		5 1/2		1700		6"		118		7		TYPE AMT. TYPE AMT.				
WORKING OR STUCK PIPE				WT OF STRING 132000		CONDITION INC.												20		5 1/2		1700		6"		118		7		GEL 1500				
FISHING				DRILLER P. Pare		WEATHER CONDITIONS Cold & Windy												20		5 1/2		1700		6"		118		7		CAUSTIC 50				
LOST CIRCULATION				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
CASING				38 STANDS DP 3562.75 FT.		Drilling or Core Bit No. 23		3962		38		H4000						60		20		1700		6"		120		7 1/2		TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
WAITING ON CEMENT				1 SNGLS. DP 29.93 FT.		TYPE SUH		3962		38		H4000						60		20		1700		6"		120		7 1/2		WEIGHT 9.1 9.1 9.1 9.1				
HEADING UP & DRILLING OUT				4 D.C. 113.63 FT.		SIZE 12 1/4		3962		38		H4000						60		20		1700		6"		120		7 1/2		VISC. 65 55 52 54				
MISC. ELLANEOUS				2 8" OD 149.27 FT.		NOZZ. SIZE 3/12		3962		38		H4000						60		20		1700		6"		120		7 1/2		W.L.-C.C. 8.0 8.0 8.0 8.4				
SUB TOTAL				3 RMR BODY 8 3/4" OD 89.27 FT.		SERIAL No. H4022		3962		38		H4000						60		20		1700		6"		120		7 1/2		FLTR. CK. 3 3 3 3				
DAYWORK HOURS				1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896		3962		38		H4000						60		20		1700		6"		120		7 1/2		pH 9.5 9.5 9.5 9.3				
TOTAL HOURS 8 8				2 SUBS 10" OD 3.91 FT.		DEPTH OUT 8001000		2 1/2		DRILL 12 1/4" HOLE								60		20		1700		6"		120		7 1/2		SD. CONT.				
WIRE LINE RECORD				1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 104		10001045		1/4		R.G. SERV + BOP						60		20		1700		6"		120		7 1/2		MUD & CHEMICALS ADDED				
REEL No.				1 S.S. 9.12 FT.		FT. REAMED 10001100		10001100		1/4		SURVEY @ 3977 H						60		20		1700		6"		120		7 1/2		TYPE AMT. TYPE AMT.				
No. OF LINES 10 SIZE 138				TOTAL 3962.00		CUM. HRS. RUN 18 1/2		11001400		5		DRILL 12 1/4" HOLE						60		20		1700		6"		120		7 1/2		WATER				
FEET SLIPPED -				WT OF STRING 132000		CONDITION												60		20		1700		6"		120		7 1/2		CAUSTIC 50				
FEET CUT OFF -				DRILLER Ron Chambers		WEATHER CONDITIONS Cold												60		20		1700		6"		120		7 1/2		UNDER FLOW - 11.4				
PRESENT LENGTH 2863				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
TON MI. or TRIPS SINCE LAST CUT 386				39 STANDS DP 3655.59 FT.		Drilling or Core Bit No. 23		4000		40		4040						60		50		1700		6"		118				TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
CUMULATIVE TON MI. or TRIPS 19543				4 D.C. 113.63 FT.		SIZE 12 1/4		4000		40		4040						60		50		1700		6"		118				WEIGHT 9.0 9.0 9.0 9.0				
No. OF DAYS FROM SPUD 35				5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		4000		40		4040						60		50		1700		6"		118				VISC. 49 48 47 45				
CUMULATIVE ROTATING HRS. 568 1/2				3 RMR BODY 8 3/4" OD 89.27 FT.		SERIAL No. H4022		4000		40		4040						60		50		1700		6"		118				W.L.-C.C. 8.6 8.6 8.6 8.6				
DAYS SINCE LAST ACCONT. 99				1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896		4000		40		4040						60		50		1700		6"		118				FLTR. CK. 2 3 2 3				
DRILLER ACCONT. FREE DAYS				2 SUBS 10" OD 3.91 FT.		DEPTH OUT 400500		1		DRILL 12 1/4" HOLE								60		50		1700		6"		118				pH 10.5 10.5 10.0 10.0				
MORNING TOUR 576				1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 144		500530		1/2		SURVEY						60		50		1700		6"		118				SD. CONT.				
DAY TOUR				1 S.S. 9.12 FT.		FT. REAMED 5301045		5 1/4		DRILL 12 1/4" HOLE								60		50		1700		6"		118				MUD & CHEMICALS ADDED				
EVENING TOUR				TOTAL 4040		CUM. HRS. RUN 35 1/2		1152000		3 1/4		DRILL 12 1/4" HOLE						60		50		1700		6"		118				TYPE AMT. TYPE AMT.				
				WT OF STRING 133000		CONDITION												60		50		1700		6"		118				WATER				
				DRILLER J Schmidt		WEATHER CONDITIONS												60		50		1700		6"		118				CHANGE HEAD LINES				
																		60		50		1700		6"		118				NO 3 P-130				
																		60		50		1700		6"		118				PUMP & CEMENT				

DAILY TOUR REPORT

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OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE						
UNION OIL LTD		UNION ARMOCO McPHERSON		8-25		N. W. T.												
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER			
PETER BAWDEN DRILLING SERVICES LTD.		2	2 1/5"	TYPE THD.	X.H.	E	No. MANUFACTURER TYPE		1. NAT 10-P-130	2. G-D GXR	13 3/8	1555	0	1524	DILWELL	1570 28 1/2		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-PY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
Morn Day Eve		37 STANDS DP 3468.49 FT.		Drilling or Core Bit No. 21 22													TIME	1st HR. 3rd HR. 5th HR. 7th HR.
DRILLING		4 9" OD 113.63 FT.		SIZE 12 1/4 12 1/4		3828	38		3866		65	20					WEIGHT	9.1 - 9.1 9.1
TRIPPING		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12 3/12													VISC.	52 - 52 46
RIG MAINTENANCE		3 RMR BODY 3 1/2" OD 89.27 FT.		SERIAL No. 1104884366		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		FLTR. CK.		
RIG REPAIRS		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3876 3831		From To Elapsed Time		REMARKS								PH		10.5 - 10.5 9.5
HOLE SURVEYS		2 SUBS 10" OD 3.91 FT.		DEPTH OUT 3831		1200 1230		1/2 DRILL 12 1/4" HOLE								SD. CONT.		
CONDITIONING MUD		1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 155 35		1230 145		1 1/4 HOIST F.A.B.										
CONDITIONING HOLE		1 RMR 5 1/2" OD 5.12 FT.		FT. REAMED 145 200				1/4 RIG SERV BLIND ARMS										
Reaming & Cleaning To Bottom		1 RMR Kelly Down 16.40 FT.		FT. CORED 200 315		1 1/4 RUN IN W/RT 22		DESILTER 5 1/4 HRS										
WORKING OR STUCK PIPE		TOTAL 3866.40 FT.		CUM. HRS. RUN 2 1/4 4 3/4		315 800		4 3/4 DRILL 12 1/4 HOLE										
FISHING		WT OF STRING 137.000 LBS.		CONDITION 5-3-1 INC.														
LOST CIRCULATION		DRILLER P. Page		WEATHER CONDITIONS Cold -35°														
CASING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-PY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
WAITING ON CEMENT		37 STANDS DP 3468.49 FT.		Drilling or Core Bit No. 22													TIME	1st HR. 3rd HR. 5th HR. 7th HR.
HEADING UP & DRILLING OUT		1 SNGLS. DP 3125 FT.		TYPE STIAG		3866	30		3896		65	20					WEIGHT	9.1 9.1 9.1 9.1
MISC. ELLENCEOUS		4 9" OD 113.63 FT.		SIZE 12 1/4													VISC.	50 55 55 50
SUB TOTAL		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		FLTR. CK.		
DAYWORK HOURS		3 RMR BODY 3 1/2" OD 89.27 FT.		SERIAL No. 884366		2889 3 1/2		2889								PH		10.5 10.5 10.0 10.0
TOTAL HOURS		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3831		From To Elapsed Time		REMARKS								SD. CONT.		
WIRE LINE RECORD		2 SUBS 10" OD 3.91 FT.		DEPTH OUT 3896		800 1230		4 1/2 DRILL 12 1/4" HOLE										
REEL No.		1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 65		1230 1245		1/4 RIG SERV + BOPS.										
No. OF LINES		1 RMR 5 1/2" OD 6.00 FT.		FT. REAMED 1245 145		1245 145		1/4 2 SURVEYS (ONE MISRUN)										
FEET SLIPPED		1 RMR Kelly Down 17. FT.		FT. CORED 15 35		2		DRILL 12 1/4" HOLE										
FEET CUT OFF		TOTAL 3896 FT.		CUM. HRS. RUN 1 1/4		315 830		1/4 DRAP SURVEY										
PRESENT LENGTH		WT OF STRING 132.000 LBS.		CONDITION 2-1		330 400		1/2 HOIST W/ BIT # 22										
TON MI. OF TRIPS SINCE LAST CUT		DRILLER Ron Chambers		WEATHER CONDITIONS Cold														
CUMULATIVE TON MI. OF TRIPS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-PY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
No. OF DAYS FROM SPUD		37 STANDS DP 3468.49 FT.		Drilling or Core Bit No. 23													TIME	1st HR. 3rd HR. 5th HR. 7th HR.
CUMULATIVE ROTATING HRS.		2 SNGLS. DP 1256 FT.		TYPE SHH		3896	22		3918		55	20					WEIGHT	9.0 9.1
DAYS SINCE LAST ACCDNT.		4 9" OD 113.63 FT.		SIZE 12 1/4													VISC.	68 58
DRILLER ACCDNT. FREE DAYS		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		FLTR. CK.		
MORNING TOUR		3 RMR BODY 3 1/2" OD 89.27 FT.		SERIAL No. 44059		3914 40										PH		8.5 8.0
DAY TOUR		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896		From To Elapsed Time		REMARKS								SD. CONT.		
EVENING TOUR		2 SUBS 10" OD 3.90 FT.		DEPTH OUT 400 415		2 1/4		HOIST LAY DOWN REAMER MOVE										
No. OF DAYS FROM SPUD		1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 615 730		1 1/4		RAN IN HOLE										
CUMULATIVE ROTATING HRS.		1 RMR 5 1/2" OD 9.12 FT.		FT. REAMED 730 1045		3 1/4		DRILL 12 1/4 HOLE										
DAYS SINCE LAST ACCDNT.		1 RMR Kelly Down 12.13 FT.		FT. CORED 1045 1115		1/2		SURVEY										
DRILLER ACCDNT. FREE DAYS		TOTAL 3718 FT.		CUM. HRS. RUN 4		115 1200		1/4 DRILL										
MORNING TOUR		WT OF STRING 132.000 LBS.		CONDITION														
DAY TOUR		DRILLER Frank Submitt		WEATHER CONDITIONS														
EVENING TOUR		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-PY R.P.M.	WT ON BIT 1000 =	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
No. OF LINES		37 STANDS DP 3468.49 FT.		Drilling or Core Bit No. 23													TIME	1st HR. 3rd HR. 5th HR. 7th HR.
FEET SLIPPED		2 SNGLS. DP 1256 FT.		TYPE SHH		3896	22		3918		55	20					WEIGHT	9.0 9.1
FEET CUT OFF		4 9" OD 113.63 FT.		SIZE 12 1/4													VISC.	68 58
PRESENT LENGTH		5 8" OD 149.27 FT.		NOZZ. SIZE 3/12		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		FLTR. CK.		
TON MI. OF TRIPS SINCE LAST CUT		3 RMR BODY 3 1/2" OD 89.27 FT.		SERIAL No. 44059		3914 40										PH		8.5 8.0
CUMULATIVE TON MI. OF TRIPS		1 STB BODY 9" OD 5.90 FT.		DEPTH IN 3896		From To Elapsed Time		REMARKS								SD. CONT.		
No. OF DAYS FROM SPUD		2 SUBS 10" OD 3.90 FT.		DEPTH OUT 400 415		2 1/4		HOIST LAY DOWN REAMER MOVE										
CUMULATIVE ROTATING HRS.		1 BIT 5 1/2" OD 4.00 FT.		FT. DRILLED 615 730		1 1/4		RAN IN HOLE										
DAYS SINCE LAST ACCDNT.		1 RMR 5 1/2" OD 9.12 FT.		FT. REAMED 730 1045		3 1/4		DRILL 12 1/4 HOLE										
DRILLER ACCDNT. FREE DAYS		1 RMR Kelly Down 12.13 FT.		FT. CORED 1045 1115		1/2		SURVEY										
MORNING TOUR		TOTAL 3718 FT.		CUM. HRS. RUN 4		115 1200		1/4 DRILL										
DAY TOUR		WT OF STRING 132.000 LBS.		CONDITION														
EVENING TOUR		DRILLER Frank Submitt		WEATHER CONDITIONS														

DAILY TOUR REPORT

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OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																					
UNION OIL LTD		UNION AMOCO McPHERSON						B-25		N. W. T.																					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																	
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	6 1/2 OD	E.				133/8	55	0 1524		1570																		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
Charles Schneider		E. Roseth																													
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
MORNING TOUR		35		STANDS DP 3342.47		Drilling or Core Bit No. 21		3678		58				3736				580		295		1550		6"		118		7		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
DRILLING		7 7 1/2 6		SNGLS. DP		FT. TYPE		3678		58				3736				580		295		1550		6"		118		7		WEIGHT 9.0 9.0 9.1 9.1	
TRIPPING				D.C. 9" OD		113.63 FT. SIZE		3678		58				3736				580		295		1550		6"		118		7		VISC. 61 47 47 60	
RIG MAINTENANCE		1/4		8" OD		149.27 FT. NOZZ. SIZE		3678		58				3736				580		295		1550		6"		118		7		W.L.-C.C. 8.0 8.0 8.0	
RIG REPAIRS				RMR BODY 6 3/4 OD		89.27 FT. SERIAL No. 11064		3678		58				3736				580		295		1550		6"		118		7		FLTR. CK. 9.5 9.0 9.0 9.0	
HOLE SURVEYS		1 1/4 2		1 STB BODY 5" OD		5.90 FT. DEPTH IN		3678		58				3736				580		295		1550		6"		118		7		SD. CONT. 9.5 9.0 9.0 9.0	
CONDITIONING MUD				2 SUB 5/8 OD		3.91 FT. DEPTH OUT		3678		58				3736				580		295		1550		6"		118		7			
CONDITIONING HOLE				1 BIT 5/8		4.00 FT. FT. DRILLED		3678		58				3736				580		295		1550		6"		118		7			
Rea ing & Cleaning To Bottom				1 RMR		8.12 FT. FT. REAMED		3678		58				3736				580		295		1550		6"		118		7			
WORKING OR STUCK PIPE				Kelly Down		12.40 FT. FT. CORED		3678		58				3736				580		295		1550		6"		118		7			
				TOTAL		373600		7 3/4						3736				580		295		1550		6"		118		7			
				WT OF STRING		130,000		INC						3736				580		295		1550		6"		118		7			
				DRILLER		P. Perez								3736				580		295		1550		6"		118		7			
				WEATHER CONDITIONS		Cold								3736				580		295		1550		6"		118		7			
														3736				580		295		1550		6"		118		7			
														3736				580		295		1550		6"		118		7			
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
UNION OIL LTD.		PETER BAWDEN DRILLING SERVICES LTD.		2		2.5"		6 1/2" OD		B-25	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS	
PETER BAWDEN DRILLING SERVICES LTD.		2		2.5"		4 1/2" IF		E		1. NAT 10-P-130	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD		4 1/2" IF		E		2. G-D GXR	
PETER BAWDEN		H. Rosend		TYPE THD		4 1/2" IF		E		3. G-D GXR	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		MORNING TOUR		DAY TOUR	
DRILLING		7		7		4		3 1/2		8 8 8	
TRIPPING											
RIG MAINTENANCE											
RIG REPAIRS											
HOLE SURVEYS		1		1		1/2					
CONDITIONING MUD											
CONDITIONING HOLE											
Reaming & Cleaning To Bottom											
WORKING OR STUCK PIPE											
FISHING											
LOST CIRCULATION											
CASING											
WAITING ON CEMENT											
HEADING UP & DRILLING OUT											
MISC. ELLANEOUS											
SUB TOTAL											
DAYWORK HOURS											
TOTAL HOURS		8		8		8					
WIRE LINE RECORD		REEL No.		No. OF LINES		SIZE		FEET SLIPPED		FEET CUT OFF	
				10		1 3/8		✓		✓	
		PRESENT LENGTH		2773							
		TON MI. OF TRIPS SINCE LAST CUT		93							
		CUMULATIVE TON MI. OF TRIPS		19350							
		No. OF DAYS FROM SPUD		32							
		CUMULATIVE ROTATING HRS.		506 3/4							
		DAYS SINCE LAST ACCDNT.		96							
		DRILLER ACCDNT. FREE DAYS									
		MORNING TOUR		29							
		DAY TOUR		573							
		EVENING TOUR									
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour	
34		STANDS DP 3184.66 FT.		Drilling or Core Bit No. 20		3539 61		3600			
4		SNGLS. DP 113.63 FT.		TYPE XDU							
5		D.C. 8" OD 149.27 FT.		SIZE 12 1/4							
3		RMR BODY 89.27 FT.		NOZZ. SIZE 3/12							
1		STB BODY 5.90 FT.		SERIAL No. 38024							
2		SUBS 3.91 FT.		DEPTH IN 3536							
1		BIT 4.00 FT.		DEPTH OUT 12 1/4" HOLE							
1		S.S. 4.12 FT.		FT. DRILLED 64							
1		RMR 4.12 FT.		FT. REAMED 130 1/4							
1		Kelly Down 35.22 FT.		FT. CORED 145 5/8							
TOTAL		36000 FT.		CUM. HRS. RUN 7 1/2							
WT OF STRING		1254 LBS.		CONDITION INC.							
DRILLER		Wyle Nash		2 Boilers 8 hrs							
WEATHER CONDITIONS		COLD		TIOGA 8 hrs.							
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour	
34		STANDS DP 3247.35 FT.		Drilling or Core Bit No. 20		3600 55		3655			
2		SNGLS. DP 113.63 FT.		TYPE XDU							
4		D.C. 9" OD 149.27 FT.		SIZE 12 1/4							
5		RMR BODY 89.27 FT.		NOZZ. SIZE 3/12							
3		STB BODY 5.90 FT.		SERIAL No. 38024							
1		SUBS 3.91 FT.		DEPTH IN 3536							
2		BIT 4.00 FT.		DEPTH OUT 800 8/5							
1		S.S. 4.12 FT.		FT. DRILLED 119							
1		RMR 4.12 FT.		FT. REAMED 845 100							
1		Kelly Down 26.54 FT.		FT. CORED 100 130							
TOTAL		365500		CUM. HRS. RUN 14 1/2							
WT OF STRING		128000		CONDITION INC.							
DRILLER		P. Pare		1/4 DRILL 12 1/4" HOLE							
WEATHER CONDITIONS		COLD 35°		1/2 SURVEY @ 3605 RIG SER + BOPS							
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour	
34		STANDS DP 3247.35 FT.		Drilling or Core Bit No. 20 21		3655 23		3678			
2		SNGLS. DP 113.63 FT.		TYPE XDU 5 1/4							
4		D.C. 9" OD 149.27 FT.		SIZE 12 1/4 12 1/4							
5		RMR BODY 89.27 FT.		NOZZ. SIZE 3/12 3/12							
3		STB BODY 5.90 FT.		SERIAL No. 38024 38024							
1		SUBS 3.91 FT.		DEPTH IN 3536 3676							
2		BIT 4.00 FT.		DEPTH OUT 400 600							
1		S.S. 4.12 FT.		FT. DRILLED 140 2							
1		RMR 4.12 FT.		FT. REAMED 630 745							
1		Kelly Down 1900 FT.		FT. CORED 745 930							
TOTAL		3676 FT.		CUM. HRS. RUN 17 3/4 3/4							
WT OF STRING		12800 LBS.		CONDITION 111							
DRILLER				1/4 DRILL 12 1/4" HOLE							
WEATHER CONDITIONS				1/2 SURVEY @ 3668							
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour	
34		STANDS DP 3247.35 FT.		Drilling or Core Bit No. 20 21		3655 23		3678			
2		SNGLS. DP 113.63 FT.		TYPE XDU 5 1/4							
4		D.C. 9" OD 149.27 FT.		SIZE 12 1/4 12 1/4							
5		RMR BODY 89.27 FT.		NOZZ. SIZE 3/12 3/12							
3		STB BODY 5.90 FT.		SERIAL No. 38024 38024							
1		SUBS 3.91 FT.		DEPTH IN 3536 3676							
2		BIT 4.00 FT.		DEPTH OUT 400 600							
1		S.S. 4.12 FT.		FT. DRILLED 140 2							
1		RMR 4.12 FT.		FT. REAMED 630 745							
1		Kelly Down 1900 FT.		FT. CORED 745 930							
TOTAL		3676 FT.		CUM. HRS. RUN 17 3/4 3/4							
WT OF STRING		12800 LBS.		CONDITION 111							
DRILLER				1/4 DRILL 12 1/4" HOLE							
WEATHER CONDITIONS				1/2 SURVEY @ 3668							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSO	SEC	TWP	RGE	W.	WELL NAME	No.	PROVINCE
UNION OIL LTD.		PETER BAWDEN DRILLING SERVICES LTD.		2	2	5	1	1	UNION ARMOED MEDHERSON	R-25	N.W.T.
CONTRACTOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS	
1. NAT		2. G.D.		3. G.D.		1. 10-P-130		2. GXR		3. GXR	
CASING & LINER RECORD		SIZE		WT & GR		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED	
12 3/4" 60#		1524		1570							
TIME DISTRIBUTION—HOURS		Morn		Day		Eve					
DRILLING		7 1/2		7		3 1/2					
TRIPPING				3							
RIG MAINTENANCE				1 1/4							
RIG REPAIRS											
HOLE SURVEYS		1/2		1							
CONDITIONING MUD											
CONDITIONING HOLE											
Reaming & Cleaning To Bottom											
WORKING OR STUCK PIPE											
FISHING											
LOST CIRCULATION											
CASING											
WAITING ON CEMENT											
HEADING UP & DRILLING OUT											
MISC. DRILL LINE											
SUB TOTAL											
DAYWORK HOURS											
TOTAL HOURS		8		8		8					
WIRE LINE RECORD		REEL No.		No. OF LINES		SIZE		FEET SLIPPED		FEET CUT OFF	
10		10		13 1/8		45		90		2773	
TON MI. or TRIPS SINCE LAST CUT		946		CUMULATIVE TON MI. or TRIPS		19,257		No. OF DAYS FROM SPUD		31	
CUMULATIVE ROTATING HRS.		95		DAYS SINCE LAST ACCDNT.		95		DRILLER ACCDNT. FREE DAYS		28	
MORNING TOUR		28		DAY TOUR		572		EVENING TOUR			
No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour	
33 STANDS DP 2047.99 FT.		Drilling or Core Bit No. 109		3436		40		3476			
2 SNGLS. DP 61.83 FT.		TYPE X44		3436		40		3476			
4 8" OD 113.63 FT.		SIZE 12 1/4		3436		40		3476			
5 8" OD 149.27 FT.		NOZZ. SIZE 3/4		3436		40		3476			
3 8" OD 89.27 FT.		SERIAL No. H2371		3436		40		3476			
1 8" OD 5.90 FT.		DEPTH IN 3318		3436		40		3476			
2 8" OD 3.91 FT.		DEPTH OUT 1200		3436		40		3476			
1 8" OD 4.00 FT.		FT. DRILLED 158		3436		40		3476			
1 8" OD 9.12 FT.		FT. REAMED 25		3436		40		3476			
1 8" OD 6.00 FT.		FT. CORED 25		3436		40		3476			
1 8" OD 25.96 FT.		FT. CORED 25		3436		40		3476			
TOTAL 3476.00 FT.		CUM. HRS. RUN 2034		3436		40		3476			
WT OF STRING 1354 LBS.		CONDITION 100		3436		40		3476			
DRILLER Kyle Nash		WEATHER CONDITIONS COLD - 35°		3436		40		3476			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3449 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3449 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3449 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		2 1/4 SURVEY		5 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"	
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3481 2 1/4"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3481 2 1/4"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3481 2 1/4"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	
1 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3481 & RIG SER V BOPS		5 1/4 DRILL 12 1/4" HOLE		1 1/4 SURVEY @ 3512		1 1/4 DRILL 12 1/4" HOLE			
2 1/4 DRILL 12 1/4" HOLE		2 1/4		1550		6"		118			
FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.	
3512 2 1/2"		40		1550		6"		118			
DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.	
3512 2 1/2"		40		1550		6"		118			
From To Elapsed Time		REMARKS		3512 2 1/2"		40		1550		6"	

CONSERVATION BOARD COPY

FORM D1—1.67

REPORT No. 30

DATE: 10-2-77

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD.		UNION AMOCO M'PHERSEN		B-25		N.W.T.									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5/8"	TYPE TH 4 1/2 IF	E	No. MANUFACTURER TYPE		1. NAT 10-P-130		2. G-D. GXR		13 3/8 6 1/2 1524		1524	1571
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
H. L. Morris		Tom Manning Com.													

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
MORNING TOUR				31		STANDS DP 2904.49 FT.		Drilling or Core Bit No. 18		3215		39		3314						100		30-40		1550		6"		120				TIME 1st HR. 3rd HR. 5th HR. 7th HR.				
DRILLING				4		SNGLS. DP 113.63 FT.		TYPE XDU		3215		39		3314																		WEIGHT 9.1 9.1 9.2				
TRIPPING				5		8" OD 149.27 FT.		NOZZ. SIZE 1 1/2 3/4		3215		39		3314																		VISC. 4.2 4.0 4.2				
RIG MAINTENANCE				3		RMR 89.27 FT.		SERIAL No. 38018		3215		39		3314																		W.L.-C.C.				
RIG REPAIRS				1		STB 5.90 FT.		DEPTH IN 3240		3215		39		3314																		FLTR. CK.				
HOLE SURVEYS				2		SUB 3.91 FT.		DEPTH OUT 12 3/4		3215		39		3314																		pH 10. 9.5 10.5				
CONDITIONING MUD				1		BIT OR C.B. 4.00 FT.		FT. DRILLED 74		3215		39		3314																		SD. CONT.				
CONDITIONING HOLE				1		RMR 9.12 FT.		FT. REAMED 74		3215		39		3314																		MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom				1		Kelly Down 24.24 FT.		FT. CORED 74		3215		39		3314																		TYPE AMT. TYPE AMT.				
WORKING OR STUCK PIPE				1		TOTAL 331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																		GEL 2000				
FISHING				1		WT OF STRING 1122 M. LBS.		CONDITION INC		3215		39		3314																		BENEX 8				
LOST CIRCULATION				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																		CAUSTIC 50				
CASING				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
WAITING ON CEMENT				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				
HEADING UP & DRILLING OUT				1		331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																						
MISC. ELLANEOUS				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																						
SUB TOTAL				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
DAYWORK HOURS				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				
TOTAL HOURS				1		331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																						
WIRE LINE RECORD				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																						
REEL No.				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
No. OF LINES				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				
FEET SLIPPED				1		331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																						
FEET CUT OFF				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																						
PRESENT LENGTH				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
TON MI. OF TRIPS SINCE LAST CUT				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				
CUMULATIVE TON MI. OF TRIPS				1		331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																						
No. OF DAYS FROM SPUD				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																						
CUMULATIVE ROTATING HRS.				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
DAYS SINCE LAST ACCDNT.				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				
DRILLER ACCDNT. FREE DAYS				1		331400 FT.		CUM. HRS. RUN 13 1/2		3215		39		3314																						
MORNING TOUR				1		DRILLER Mike Nash		WEATHER CONDITIONS		3215		39		3314																						
DAY TOUR				1		Tioga 8 HRS.		DESILTER RUN		3215		39		3314																		OVER FLOW 11.3				
EVENING TOUR				1		2-Boiler 8 HRS.		OVER FLOW 11.3		3215		39		3314																		UNDER FLOW 9.1				

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 26 1/2 9115 NADA

REPORT No. 704

DATE: 5-2-72

CONSERVATION BOARD COPY

FORM D1-1-67

REPORT No. 22

DATE: 4-2-72

CONSERVATION BOARD COPY

FORM D1-1-67

REPORT No. 27

DATE: 3-2-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE			
UNION OIL LTD.		LSD.						UNION AMOCO McPHERSON	B-25	N.W.T.			
PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER	TYPE THD		F	No. MANUFACTURER TYPE							
H. M. M. M.		Tom Cunningham	10-1/2"			1. NAT. 10-P-130 2. G.D. GXR			13 1/2 68 T-55	0 1524		1570	
TIME DISTRIBUTION—HOURS													
Morn Day Eve													
DRILLING		3 1/2 3 1/4 P4											
TRIPPING		3 2 3/4											
RIG MAINTENANCE		1/4 1/4 1/4											
RIG REPAIRS													
HOLE SURVEYS													
CONDITIONING MUD													
CONDITIONING HOLE													
Reaming & Cleaning To Bottom		1/4 1											
WORKING OR STUCK PIPE													
FISHING													
LOST CIRCULATION													
CASING													
WAITING ON CEMENT													
HEADING UP & DRILLING OUT													
MISC. ELLENEOUS		3/4											
SUB TOTAL													
DAYWORK HOURS													
TOTAL HOURS		8 8 8											
WIRE LINE RECORD													
REEL No.													
No. OF LINES		10 SIZE 1 3/8											
FEET SLIPPED		✓											
FEET CUT OFF		✓											
PRESENT LENGTH		2863											
TON MI. OF TRIPS SINCE LAST CUT		511											
CUMULATIVE TON MI. OF TRIPS		18823											
No. OF DAYS FROM SPUD		26											
CUMULATIVE ROTATING HRS.													
DAYS SINCE LAST ACCNT.		90											
DRILLER ACCNT. FREE DAYS													
MORNING TOUR													
DAY TOUR		564											
EVENING TOUR													
No. DRILLING ASSEMBLY													
No. STANDS DP		2622.75											
SNGLS. DP		113.63											
D.C. OD		149.27											
RMR. BODY 3/4 OD		89.27											
STB BODY 9" OD		5.90											
SUBS 1/2 OD		3.91											
BIT 5/8		4.00											
S.S.		4.12											
RMR.		4.00											
Kelly Down		28.15											
TOTAL		3032.00											
WT OF STRING		128.00											
DRILLER		P. Page											
WEATHER CONDITIONS		Cooler											
No. DRILLING ASSEMBLY													
No. STANDS DP		2622.75											
SNGLS. DP		113.63											
D.C. OD		149.27											
RMR. BODY 3/4 OD		89.27											
STB BODY 9" OD		5.90											
SUBS 1/2 OD		3.91											
BIT 5/8		4.00											
S.S.		4.12											
RMR.		4.00											
Kelly Down		21.82											
TOTAL		3057.00											
WT OF STRING		128.00											
DRILLER		P. Page											
WEATHER CONDITIONS		Cooler											
No. DRILLING ASSEMBLY													
No. STANDS DP		2622.75											
SNGLS. DP		113.63											
D.C. OD		149.27											
RMR. BODY 3/4 OD		89.27											
STB BODY 9" OD		5.90											
SUBS 1/2 OD		3.91											
BIT 5/8		4.00											
S.S.		4.12											
RMR.		4.00											
Kelly Down		21.82											
TOTAL		3057.00											
WT OF STRING		128.00											
DRILLER		P. Page											
WEATHER CONDITIONS		Cooler											

FORM DI-167

Gallons of Diesel Fuel on Hand at 8:00 a.m. 371-91912 BALE

REPORT No. 26

DATE: FEB 21 72

CONSERVATION BOARD COPY

FORM D'—1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 38'2.26'

REPORT No. 25

DATE: FEB 1 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE			
UNION OIL CO		LSD. SEC. TWP. RGE. W.				UNION ANGELO McPHERSON		B-25		N.W.T.			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	254	6 1/2 OD	4 1/2	No. MANUFACTURER TYPE		1. 40T 10P130	13 3/8	0 1524	15-70		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER											
H. M. Morris		J. R. R. R.											
TIME DISTRIBUTION—HOURS													
Morn Day Eve													
DRILLING		13 7 4 5											
TRIPPING		3 1/4 2 1/2											
RIG MAINTENANCE		1/4 1/4 1/4											
RIG REPAIRS													
HOLE SURVEYS		1/4 1/2 1/4											
CONDITIONING MUD													
CONDITIONING HOLE													
Reaming & Cleaning To Bottom													
WORKING OR STUCK PIPE													
FISHING													
LOST CIRCULATION													
CASING													
WAITING ON CEMENT													
HEADING UP & DRILLING OUT													
MISC. ELLANEOUS													
SUB TOTAL													
DAYWORK HOURS													
TOTAL HOURS		6 8 8											
WIRE LINE RECORD													
REEL No.													
No. OF LINES		10 SIZE 13/8											
FEET SLIPPED		✓											
FEET CUT OFF		✓											
PRESENT LENGTH		2863											
TON MI. OF TRIPS SINCE LAST CUT		322											
CUMULATIVE TON MI. OF TRIPS		18634											
No. OF DAYS FROM SPUD		24											
CUMULATIVE ROTATING HRS.													
DAYS SINCE LAST ACCDNT.		88											
DRILLER ACCDNT. FREE DAYS													
MORNING TOUR													
DAY TOUR													
EVENING TOUR		562											
FORM DI-1-67													

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 99" 2329 CLC

REPORT No. 911

DATE: Jan 31, 1979

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
Operator 21.60		CONTRACTOR				RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT 6 1/2 OD		DRILL PIPE GRADE		PUMPS		Casing & Liner Record		SIZE WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		27		2 5/8		TYPE THD 4 1/2 x 4		E		No. 1		MANUFACTURER		TYPE		133613355		0		1524		1570					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																									
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																					
DRILLING		2 1/2		1 1/4		1 1/4																					
TRIPPING		5 1/2		1 3/4																							
RIG MAINTENANCE		1/4		3/4																							
RIG REPAIRS		3/4		1/4																							
HOLE SURVEYS		1/4		1/4																							
CONDITIONING MUD																											
CONDITIONING HOLE																											
Reaming & Cleaning To Bottom																											
WORKING OR STUCK PIPE																											
FISHING																											
LOST CIRCULATION																											
CASING																											
WAITING ON CEMENT																											
HEADING UP & DRILLING OUT																											
MISC. ELLANEOUS																											
SUB TOTAL																											
DAYWORK HOURS																											
TOTAL HOURS		8 8		8																							
WIRE LINE RECORD																											
REEL No.																											
No. OF LINES		A		SIZE 1 3/8																							
FEET SLIPPED		✓																									
FEET CUT OFF		✓																									
PRESENT LENGTH		2863																									
TON MI. OF TRIPS SINCE LAST CUT		250																									
CUMULATIVE TON MI. OF TRIPS		18562																									
No. OF DAYS FROM SPUD		23																									
CUMULATIVE ROTATING HRS.		350																									
DAYS SINCE LAST ACCDNT.		87																									
DRILLER ACCDNT. FREE DAYS																											
MORNING TOUR																											
DAY TOUR																											
EVENING TOUR		561																									

DAILY TOUR REPORT

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE													
Gulf Oil LTD		LSD.						UNION AMOLCON PHILLIPS	8-25	MAINT													
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER								
PETER BAWDEN DRILLING SERVICES LTD.		2	2.5"	6 1/2	OD	E	No. MANUFACTURER TYPE		1. NUT 10 P130	13 3/4	555	0 1524		1570									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER						2. CD															
H. H. Harris		H. Paseth																					
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
Morn Day Eve		24 STANDS DP 2248.85 FT.		Drilling or Core Bit No. 10 11		2672		2672		2672		2672		80 20		PUMP No. 1		PUMP No. 2		1350 6"		56 5 1/2	
DRILLING 5 1/2 7 1/4 4 1/4		4 SNGLS. DP 114.72 FT.		SIZE 12 1/4 12 1/4		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
TRIPPING 2 1/4 1/4 3 1/2		5 8" OD 149.29 FT.		NOZZ. SIZE 3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
RIG MAINTENANCE 1/4		3 RMR BODY 89.27 FT.		SERIAL No. 6814861521		2558		2558		2558		2558		2558		2558		2558		2558		2558	
RIG REPAIRS		2 SUBS 3.54 FT.		DEPTH IN 2672		2672		2672		2672		2672		2672		2672		2672		2672		2672	
HOLE SURVEYS 1/4 1/4 1/4		1 BIT 8 1/8 2.80 FT.		FT. DRILLED 114		114		114		114		114		114		114		114		114		114	
CONDITIONING MUD		1 S.S. 9.12 FT.		FT. REAMED		114		114		114		114		114		114		114		114		114	
CONDITIONING HOLE		Kelly Down 1100 FT.		FT. CORED		114		114		114		114		114		114		114		114		114	
Reaming & Cleaning To Bottom		TOTAL 9672 FT.		CUM. HRS. RUN 16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2	
WORKING OR STUCK PIPE		WT OF STRING 118000 LBS.		CONDITION		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2		16 1/2	
FISHING		DRILLER J. McNamee		WEATHER CONDITIONS																			
LOST CIRCULATION		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
CASING		24 STANDS DP 2248.85 FT.		Drilling or Core Bit No. 11		2672		2672		2672		2672		2672		70 40		PUMP No. 1		PUMP No. 2		1400 6 1/2 5 1/4	
WAITING ON CEMENT		2 SNGLS. DP 161.43 FT.		TYPE SDGH		36		36		36		36		36		36		36		36		36	
HEADING UP & DRILLING OUT		4 4" OD 114.72 FT.		SIZE 12 1/4		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
MISC. ELANEUS		5 8" OD 149.29 FT.		NOZZ. SIZE 3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
SUB TOTAL		3 RMR BODY 89.27 FT.		SERIAL No. CC-521		2672		2672		2672		2672		2672		2672		2672		2672		2672	
DAYWORK HOURS		2 SUBS 3.54 FT.		DEPTH IN 2672		2672		2672		2672		2672		2672		2672		2672		2672		2672	
TOTAL HOURS 8 8 8		1 BIT 8 1/8 2.80 FT.		FT. DRILLED		114		114		114		114		114		114		114		114		114	
WIRE LINE RECORD		1 S.S. 9.12 FT.		FT. REAMED		114		114		114		114		114		114		114		114		114	
REEL No.		Kelly Down 14.99 FT.		FT. CORED		114		114		114		114		114		114		114		114		114	
No. OF LINES 10 SIZE 13/8		TOTAL 270800 FT.		CUM. HRS. RUN		11		11		11		11		11		11		11		11		11	
FEET SLIPPED		WT OF STRING 120,000 LBS.		CONDITION		11		11		11		11		11		11		11		11		11	
FEET CUT OFF		DRILLER		WEATHER CONDITIONS																			
PRESENT LENGTH 2863		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
TON MI. OF TRIPS SINCE LAST CUT 194		24 STANDS DP 2310.30 FT.		Drilling or Core Bit No. 11		2708		2708		2708		2708		2708		90 120		PUMP No. 1		PUMP No. 2		1400 6 1/2 5 1/4 4 1/4	
CUMULATIVE TON MI. OF TRIPS 18,506		2 SNGLS. DP 114.72 FT.		TYPE SDGH		17		17		17		17		17		17		17		17		17	
No. OF DAYS FROM SPUD 22		4 9" OD 114.72 FT.		SIZE 12 1/4		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
CUMULATIVE ROTATING HRS. 334 3/4		5 8" OD 149.29 FT.		NOZZ. SIZE 3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
DAYS SINCE LAST ACCDNT. 86		3 RMR BODY 89.27 FT.		SERIAL No. CC-521		2672		2672		2672		2672		2672		2672		2672		2672		2672	
DRILLER ACCDNT. FREE DAYS		2 SUBS 3.54 FT.		DEPTH IN 2672		2672		2672		2672		2672		2672		2672		2672		2672		2672	
MORNING TOUR		1 BIT 8 1/8 2.80 FT.		FT. DRILLED		114		114		114		114		114		114		114		114		114	
DAY TOUR		1 S.S. 9.12 FT.		FT. REAMED		114		114		114		114		114		114		114		114		114	
EVENING TOUR 560		Kelly Down 3200 FT.		FT. CORED		114		114		114		114		114		114		114		114		114	
		TOTAL 2725.04 FT.		CUM. HRS. RUN 8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
		WT OF STRING 120,000 LBS.		CONDITION		531		531		531		531		531		531		531		531		531	
		DRILLER P. Paseth		WEATHER CONDITIONS Windy																			
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
		24 STANDS DP 2310.30 FT.		Drilling or Core Bit No. 11		2708		2708		2708		2708		2708		90 120		PUMP No. 1		PUMP No. 2		1400 6 1/2 5 1/4 4 1/4	
		2 SNGLS. DP 114.72 FT.		TYPE SDGH		17		17		17		17		17		17		17		17		17	
		4 9" OD 114.72 FT.		SIZE 12 1/4		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
		5 8" OD 149.29 FT.		NOZZ. SIZE 3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
		3 RMR BODY 89.27 FT.		SERIAL No. CC-521		2672		2672		2672		2672		2672		2672		2672		2672		2672	
		2 SUBS 3.54 FT.		DEPTH IN 2672		2672		2672		2672		2672		2672		2672		2672		2672		2672	
		1 BIT 8 1/8 2.80 FT.		FT. DRILLED		114		114		114		114		114		114		114		114		114	
		1 S.S. 9.12 FT.		FT. REAMED		114		114		114		114		114		114		114		114		114	
		Kelly Down 3200 FT.		FT. CORED		114		114		114		114		114		114		114		114		114	
		TOTAL 2725.04 FT.		CUM. HRS. RUN 8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
		WT OF STRING 120,000 LBS.		CONDITION		531		531		531		531		531		531		531		531		531	
		DRILLER P. Paseth		WEATHER CONDITIONS Windy																			
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
		24 STANDS DP 2310.30 FT.		Drilling or Core Bit No. 11		2708		2708		2708		2708		2708		90 120		PUMP No. 1		PUMP No. 2		1400 6 1/2 5 1/4 4 1/4	
		2 SNGLS. DP 114.72 FT.		TYPE SDGH		17		17		17		17		17		17		17		17		17	
		4 9" OD 114.72 FT.		SIZE 12 1/4		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
		5 8" OD 149.29 FT.		NOZZ. SIZE 3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2		3 1/2	
		3 RMR BODY 89.27 FT.		SERIAL No. CC-521		2672		2672		2672		2672		2672		2672		2672		2672		2672	
		2 SUBS 3.54 FT.		DEPTH IN 2672		2672		2672		2672		2672		2672		2672		2672		2672		2672	
		1 BIT 8 1/8 2.80 FT.		FT. DRILLED		114		114		114		114		114		114		114		114		114	
		1 S.S. 9.12 FT.		FT. REAMED		114		114		114		114		114		114		114		114		114	
		Kelly Down 3200 FT.		FT. CORED		114		114		114		114		114		114		114		114		114	
		TOTAL 2725.04 FT.		CUM. HRS. RUN 8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2		8 1/2	
		WT OF STRING 120,000 LBS.		CONDITION		531		531		531		531		531		531		531		531		531	
		DRILLER P. Paseth		WEATHER CONDITIONS Windy																			

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION Amoco McPherson		No. B 25		PROVINCE N.W.T.						
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. 2	TOOL JOINT 6 1/2" UD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE <i>H.R. Harris</i>		CONTRACTOR'S TOOL PUSHER <i>J. Roeth</i>		1. NAT 10-P-130		2. G-D. GXR		3.		13 1/8 68555		0	1524	1570

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve	No.	STANDS DP	FT.	Drilling or Core Bit No.	9	2525	27		2552																						
DRILLING			4	9" OD	114.72	FT.	TYPE	544																									
TRIPPING			5	8" OD	149.29	FT.	NOZZ. SIZE	3/12																									
RIG MAINTENANCE			3	RMR BOD 6 1/4 OD	89.27	FT.	SERIAL No.	308822																									
RIG REPAIRS			2	STB BODY 9" OD	14.00	FT.	DEPTH IN	2484																									
HOLE SURVEYS			1	BIT SUB	2.80	FT.	FT. DRILLED	68																									
CONDITIONING MUD			1	SS. 9"	9.12	FT.	FT. REAMED																										
CONDITIONING HOLE				Kelly Down	14.02	FT.	FT. CORED																										
Reaming & Cleaning To Bottom				TOTAL	2552	FT.	CUM. HRS. RUN	14 1/2																									
WORKING OR STUCK PIPE				WT OF STRING	110,000	LBS.	CONDITION																										
FISHING				DRILLER	Frank Schmidt																												
LOST CIRCULATION				WEATHER CONDITIONS																													

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve	No.	STANDS DP	FT.	Drilling or Core Bit No.	9	2552	30		2588																						
DRILLING			4	9" OD	114.72	FT.	TYPE	544	5064																								
TRIPPING			5	8" OD	149.29	FT.	NOZZ. SIZE	3/12	3/12																								
RIG MAINTENANCE			3	RMR BOD 6 1/4 OD	89.27	FT.	SERIAL No.	308822	GBMD																								
RIG REPAIRS			2	STB BODY 9" OD	14.00	FT.	DEPTH IN	2484	2558																								
HOLE SURVEYS			1	BIT SUB	2.80	FT.	FT. DRILLED	74	30																								
CONDITIONING MUD			1	SS. 9"	9.12	FT.	FT. REAMED																										
CONDITIONING HOLE				Kelly Down	18.24	FT.	FT. CORED																										
Reaming & Cleaning To Bottom				TOTAL	2588.00	FT.	CUM. HRS. RUN	15 1/4	3 1/2																								
WORKING OR STUCK PIPE				WT OF STRING	116,000	LBS.	CONDITION	6-2-1																									
FISHING				DRILLER	Kyle Nash																												
LOST CIRCULATION				WEATHER CONDITIONS																													

TIME DISTRIBUTION—HOURS			No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve	No.	STANDS DP	FT.	Drilling or Core Bit No.	10	2588	55 <td></td> <td>2643</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		2643																						
DRILLING			4	9" OD	114.72	FT.	TYPE	5064																									
TRIPPING			5	8" OD	149.29	FT.	NOZZ. SIZE	3/12																									
RIG MAINTENANCE			3	RMR BOD 6 1/4 OD	89.27	FT.	SERIAL No.	GB148																									
RIG REPAIRS			2	STB BODY 9" OD	14.00	FT.	DEPTH IN	2558																									
HOLE SURVEYS			1	BIT SUB	2.80	FT.	FT. DRILLED	85																									
CONDITIONING MUD			1	SS. 9"	9.12	FT.	FT. REAMED																										
CONDITIONING HOLE				Kelly Down	12.00	FT.	FT. CORED																										
Reaming & Cleaning To Bottom				TOTAL	2643.00	FT.	CUM. HRS. RUN	11																									
WORKING OR STUCK PIPE				WT OF STRING	118,000	LBS.	CONDITION	INC																									
FISHING				DRILLER	P. Perez																												
LOST CIRCULATION				WEATHER CONDITIONS																													

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE																		
UNION OIL LTD		UNION AMOCO McPHERSON						B-25			N.W.T.																		
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER															
PETER BAWDEN DRILLING SERVICES LTD.		*2	2 1/2"	TYPE TH	4 1/2 X 1/2	E	No. MANUFACTURER TYPE		1. NAT 10-R-130				1570																
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																											
K. H. Morris		A. Roath																											
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		STANDS DP		2061.35 FT.		Drilling or Core Bit No.		8		2435		2484		2484		9530		1500		6"		120 3/2		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
DRILLING		SNGLS. DP		FT.		TYPE		STAG		2435		2484		2484		9530		1500		6"		120 3/2		WEIGHT		9.1 9.1 9.1 9.1			
TRIPPING		D.C. OD		114.72 FT.		SIZE		12 1/4		2435		2484		2484		9530		1500		6"		120 3/2		VISC.		40 38 37 38			
RIG MAINTENANCE		RMP BODY 13 1/2 OD		89.27 FT.		SERIAL No.		193824		2435		2484		2484		9530		1500		6"		120 3/2		W.L.C.C.		10.4 10.6 10.8			
RIG REPAIRS		STB BODY 9 OD		14.00 FT.		DEPTH IN		2354		2435		2484		2484		9530		1500		6"		120 3/2		FLTR. CK.		7.32 2/32			
HOLE SURVEYS		SUBS OD		3.54 FT.		DEPTH OUT		120 2 1/4		2435		2484		2484		9530		1500		6"		120 3/2		pH		11.0 10.0 10.0			
CONDITIONING MUD		BIT SUB		5.88 FT.		FT. DRILLED		130		2435		2484		2484		9530		1500		6"		120 3/2		SD. CONT.					
CONDITIONING HOLE		Kelly Down		32.0 FT.		FT. CORED				2435		2484		2484		9530		1500		6"		120 3/2		MUD & CHEMICALS ADDED					
Reaming & Cleaning To Bottom		TOTAL		2484 FT.		CUM. HRS. RUN		16 1/2		2435		2484		2484		9530		1500		6"		120 3/2		TYPE		AMT.			
WORKING OR STUCK PIPE		WT OF STRING		110.00 BS.		CONDITION				2435		2484		2484		9530		1500		6"		120 3/2		Belt 2700					
FISHING		DRILLER		Row Chamber		WEATHER CONDITIONS		F15 + Windy		2435		2484		2484		9530		1500		6"		120 3/2		BENEX 10					
LOST CIRCULATION		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
CASING		STANDS DP		FT.		Drilling or Core Bit No.		8 9		2435		2502		2502		10015		1050		6"		56		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
WAITING ON CEMENT		SNGLS. DP		FT.		TYPE		STAG		2435		2502		2502		10015		1050		6"		56		WEIGHT		9.1 9.1 9.0			
HEADING UP & DRILLING OUT		D.C. OD		114.72 FT.		SIZE		12 1/4		2435		2502		2502		10015		1050		6"		56		VISC.		40 60			
MISC. ELLANEOUS		RMP BODY 13 1/2 OD		89.27 FT.		SERIAL No.		1938743088		2435		2502		2502		10015		1050		6"		56		W.L.C.C.		10.5 10.5			
SUB TOTAL		STB BODY 9 OD		14.00 FT.		DEPTH IN		2354		2435		2502		2502		10015		1050		6"		56		FLTR. CK.		I			
DAYWORK HOURS		SUBS OD		3.54 FT.		DEPTH OUT		2484		2435		2502		2502		10015		1050		6"		56		pH		10.5 10.5			
TOTAL HOURS		BIT SUB		5.88 FT.		FT. DRILLED		130		2435		2502		2502		10015		1050		6"		56		SD. CONT.					
WIRE LINE RECORD		Kelly Down		22.39 FT.		FT. CORED				2435		2502		2502		10015		1050		6"		56		MUD & CHEMICALS ADDED					
REEL No.		TOTAL		2502 FT.		CUM. HRS. RUN		16 1/2		2435		2502		2502		10015		1050		6"		56		TYPE		AMT.			
No. OF LINES		WT OF STRING		140.14 LBS.		CONDITION		8-2-1		2435		2502		2502		10015		1050		6"		56		GEL 500					
FEET SLIPPED		DRILLER		J. Schmidt		WEATHER CONDITIONS		WINDS SOTO 80 MPH		2435		2502		2502		10015		1050		6"		56		BENEX 2					
FEET CUT OFF		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
PRESENT LENGTH		STANDS DP		2061.35 FT.		Drilling or Core Bit No.		4		2502		2525		2525		40 20		1400		6"		54		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
TON MI. or TRIPS SINCE LAST CUT		SNGLS. DP		62.32 FT.		TYPE		5-44		2502		2525		2525		40 20		1400		6"		54		WEIGHT		9.1 9.1 9.1 9.1			
CUMULATIVE TON MI. or TRIPS		D.C. OD		114.72 FT.		SIZE		12 1/4		2502		2525		2525		40 20		1400		6"		54		VISC.		37 40 43 45			
No. OF DAYS FROM SPUD		RMP BODY 13 1/2 OD		89.27 FT.		SERIAL No.		302222		2502		2525		2525		40 20		1400		6"		54		W.L.C.C.		10.5 10.5 10.5 11.5			
CUMULATIVE ROTATING HRS.		STB BODY 9 OD		14.00 FT.		DEPTH IN		2484		2502		2525		2525		40 20		1400		6"		54		FLTR. CK.					
DAYS SINCE LAST ACCDNT.		SUBS OD		3.54 FT.		DEPTH OUT		400 430		2502		2525		2525		40 20		1400		6"		54		pH		7.5 9.5 10.5 11.5			
DRILLER ACCDNT. FREE DAYS		BIT SUB		5.88 FT.		FT. DRILLED		38		2502		2525		2525		40 20		1400		6"		54		SD. CONT.					
MORNING TOUR		Kelly Down		19.31 FT.		FT. CORED				2502		2525		2525		40 20		1400		6"		54		MUD & CHEMICALS ADDED					
DAY TOUR		TOTAL		2525 FT.		CUM. HRS. RUN		7		2502		2525		2525		40 20		1400		6"		54		TYPE		AMT.			
EVENING TOUR		WT OF STRING		110.00 BS.		CONDITION				2502		2525		2525		40 20		1400		6"		54		CAUSE 50					
		DRILLER		K. H. Morris		WEATHER CONDITIONS		WINDY		2502		2525		2525		40 20		1400		6"		54		GEL 500					
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		STANDS DP		2061.35 FT.		Drilling or Core Bit No.		4		2502		2525		2525		40 20		1400		6"		54		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
		SNGLS. DP		62.32 FT.		TYPE		5-44		2502		2525		2525		40 20		1400		6"		54		WEIGHT		9.1 9.1 9.1 9.1			
		D.C. OD		114.72 FT.		SIZE		12 1/4		2502		2525		2525		40 20		1400		6"		54		VISC.		37 40 43 45			
		RMP BODY 13 1/2 OD		89.27 FT.		SERIAL No.		302222		2502		2525		2525		40 20		1400		6"		54		W.L.C.C.		10.5 10.5 10.5 11.5			
		STB BODY 9 OD		14.00 FT.		DEPTH IN		2484		2502		2525		2525		40 20		1400		6"		54		FLTR. CK.					
		SUBS OD		3.54 FT.		DEPTH OUT		400 430		2502		2525		2525		40 20		1400		6"		54		pH		7.5 9.5 10.5 11.5			
		BIT SUB		5.88 FT.		FT. DRILLED		38		2502		2525		2525		40 20		1400		6"		54		SD. CONT.					
		Kelly Down		19.31 FT.		FT. CORED				2502		2525		2525		40 20		1400		6"		54		MUD & CHEMICALS ADDED					
		TOTAL		2525 FT.		CUM. HRS. RUN		7		2502		2525		2525		40 20		1400		6"		54		TYPE		AMT.			
		WT OF STRING		110.00 BS.		CONDITION				2502		2525		2525		40 20		1400		6"		54		CAUSE 50					
		DRILLER		K. H. Morris		WEATHER CONDITIONS		WINDY		2502		2525		2525		40 20		1400		6"		54		GEL 500					
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		STANDS DP		2061.35 FT.		Drilling or Core Bit No.		4		2502		2525		2525		40 20		1400		6"		54		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
		SNGLS. DP		62.32 FT.		TYPE		5-44		2502		2525		2525		40 20		1400		6"		54		WEIGHT		9.1 9.1 9.1 9.1			
		D.C. OD		114.72 FT.		SIZE		12 1/4		2502		2525		2525		40 20		1400		6"		54		VISC.		37 40 43 45			
		RMP BODY 13 1/2 OD		89.27 FT.		SERIAL No.		302222		2502		2525		2525		40 20		1400		6"		54		W.L.C.C.		10.5 10.5 10.5 11.5			
		STB BODY 9 OD		14.00 FT.		DEPTH IN		2484		2502		2525		2525		40 20		1400		6"		54		FLTR. CK.					
		SUBS OD		3.54 FT.		DEPTH OUT		400 430		2502		2525		2525		40 20		1400		6"		54		pH		7.5 9.5 10.5 11.5			
		BIT SUB		5.88 FT.		FT. DRILLED		38		2502		2525		2525		40 20		1400		6"		54		SD. CONT.					
		Kelly Down		19.31 FT.		FT. CORED				2502		2525		2525		40 20		1400		6"		54		MUD & CHEMICALS ADDED					
		TOTAL		2525 FT.		CUM. HRS. RUN		7		2502		2525		2525		40 20		1400		6"		54		TYPE		AMT.			
		WT OF STRING		110.00 BS.		CONDITION				2502		2525		2525		40 20		1400		6"		54		CAUSE 50					
		DRILLER		K. H. Morris		WEATHER CONDITIONS		WINDY		2502		2525		2525		40 20		1400		6"		54		GEL 500					
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		STANDS DP		2061.35 FT.		Drilling or Core Bit No.		4		2502		2525		2525															

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION AMOCO McPHERSON		B-25		N.W.T									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OP	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE TH 4 1/2 XH		E				133/64 X 35	0	1524		1570	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Schneider		R. Routh													
TIME DISTRIBUTION—HOURS															
Morn Day Eve															
DRILLING		6 3/4 1/2													
TRIPPING		3 1/4 3/4													
RIG MAINTENANCE		1/4 1/4													
RIG REPAIRS															
HOLE SURVEYS		1/4													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELANEUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8													
WIRE LINE RECORD		8													
REEL No.															
No. OF LINES		10 SIZE 1 3/8													
FEET SLIPPED		—													
FEET CUT OFF		—													
PRESENT LENGTH		2438													
TON MI. or TRIPS SINCE LAST CUT		507													
CUMULATIVE TON MI. or TRIPS		18,264													
No. OF DAYS FROM SPUD		19													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST 4-DNT.															
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR		15													
FORM D1-1.67															

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
20	STANDS DP 1874.88 FT.	Drilling or Core Bit No. 7												TIME 1st HR. 3rd HR. 5th HR. 7th HR.
2	SNGLS. DP 62.25 FT.	TYPE SVH	2305	43		2348		580	1520		6"	120	6 3/4	WEIGHT 9.1 9.1 9.0 9.0
4	9" OD 114.72 FT.	SIZE 12 1/4												VISC. 34 37 40 39
5	8" OD 148.29 FT.	NOZZ. SIZE 3/12												W.L.C.C. 9.6 9.6 9.6 9.6
3	RMP BODY 89.27 FT.	SERIAL No. FW918												FLTR. CK. 1.2 2.3 3.2 3.2
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 2305												pH 9.0 9.5 9.5
2	SUB 3.54 FT.	DEPTH OUT 2305												SD. CONT.
1	BIT 5.88 FT.	FT. DRILLED 43												MUD & CHEMICALS ADDED
1	SS. 9" 9.12 FT.	FT. REAMED												TYPE AMT. TYPE AMT.
	Kelly Down 26. FT.	FT. CORED												GELL 800
	TOTAL 2348 FT.	CUM. HRS. RUN 6 3/4												BENEX 4
	WT OF STRING 110,000 LBS.	CONDITION RY												CAUSTIC 50
	DRILLER Ron Chambers													WATER
	WEATHER CONDITIONS Very Mild													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP FT.	Drilling or Core Bit No. 7 8												TIME 1st HR. 3rd HR. 5th HR. 7th HR.
	SNGLS. DP FT.	TYPE SVH STIR	2348	12		2360		580	1500		6"	120	4 1/2	WEIGHT 8.9 7 8.8
4	9" OD 114.72 FT.	SIZE 12 1/4 12 1/4												VISC. 38 2 36
5	8" OD 148.29 FT.	NOZZ. SIZE 3/12 3/12												W.L.C.C. 10.5 10.5 10.5
3	RMP BODY 89.27 FT.	SERIAL No. FW918												FLTR. CK. 10.5 10.5 10.5
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 2305												pH 10.5 10.5 10.5
2	SUB 3.54 FT.	DEPTH OUT 2354												SD. CONT.
1	BIT 5.88 FT.	FT. DRILLED 49												MUD & CHEMICALS ADDED
1	SS. 9" 9.12 FT.	FT. REAMED												TYPE AMT. TYPE AMT.
	Kelly Down 26. FT.	FT. CORED												WATER
	TOTAL 2360 FT.	CUM. HRS. RUN 9 1/4												
	WT OF STRING 110,000 LBS.	CONDITION												
	DRILLER Frank Schmitt													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
21	STANDS DP 1968.49 FT.	Drilling or Core Bit No. 8												TIME 1st HR. 3rd HR. 5th HR. 7th HR.
2	SNGLS. DP 62.33 FT.	TYPE STIR	2360	15		2435		60-10	1500		6"	120	7	WEIGHT 9 9 9 9
4	9" OD 114.72 FT.	SIZE 12 1/4												VISC. 34 40 37 38
5	8" OD 148.29 FT.	NOZZ. SIZE 3/12												W.L.C.C. 9 11 11.5 11
3	RMP BODY 89.27 FT.	SERIAL No. 193874												FLTR. CK. 9 11 11.5 11
2	STB BODY 9" OD 14.00 FT.	DEPTH IN 2354												pH 9 11 11.5 11
2	SUB 3.54 FT.	DEPTH OUT 2354												SD. CONT.
1	BIT 5.88 FT.	FT. DRILLED												MUD & CHEMICALS ADDED
1	SS. 9" 9.12 FT.	FT. REAMED												TYPE AMT. TYPE AMT.
	Kelly Down 26. FT.	FT. CORED												CAUSTIC 50
	TOTAL 2435 FT.	CUM. HRS. RUN 9 1/4												GEL 1500
	WT OF STRING 110,000 LBS.	CONDITION												BENEX 6
	DRILLER Kyle Zash													
	WEATHER CONDITIONS Windy													

REPORT No.

DATE: 26-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
UNION OIL LTD.		UNION AMOCO McPHERSON						B-25			N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/2	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 5"	4 1/2 X H	E					13 3/8 62 JSS	0	15 24		15 70	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		No.		MANUFACTURER	TYPE								
Charles Schneider		G. Rose		1.		NAT	10-A-130								
				2.		G-D	GZR								
				3.											
TIME DISTRIBUTION - HOURS															
Morn Day Eve															
DRILLING		7 1/2 5 5 1/4													
TRIPPING		9 2 1/4													
RIG MAINTENANCE		1/4 1/4 1/4													
RIG REPAIRS															
HOLE SURVEYS		1/4 1/4 1/4													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8 2													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10													
SIZE		3/8													
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH		2438													
TON MI. or TRIPS SINCE LAST CUT		421													
CUMULATIVE TON MI. or TRIPS		18,183													
No. OF DAYS FROM SPUD		18													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCNT.															
DRILLER ACCNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR		14													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
19	STANDS DP 1780.81 FT.	Drilling or Core Bit No. 5												
2	SNGLS. CP 62.92 FT.	TYPE YMG	2235	29		2264								
4	D.C. 114.72 FT.	SIZE 12 1/4												
5	8" OD 148.29 FT.	NOZZ. SIZE 3/12												
3	RMR BODY 89.27 FT.	SERIAL No. 380003												
2	STB BODY 14.00 FT.	DEPTH IN 2184												
2	SUBS 3.54 FT.	DEPTH OUT												
1	BIT 5.88 FT.	FT. DRILLED 80												
1	55.9" 9.12 FT.	FT. REAMED												
	Kelly Down 36 FT.	FT. CORED												
	TOTAL 2264 FT.	CUM. HRS. RUN 16 1/4												
	WT OF STRING 106,000 LBS.	CONDITION RUN												
	DRILLER Ron Chambers													
	WEATHER CONDITIONS VERY MILD													
REMARKS: 1/4 DR LG 12 1/4" HOLE 1/4 R.C. SERU + BOPS 1/4 SURVEY @ 2238 1/4 DR LG 12 1/4" HOLE DESILTER 8 HRS UNDERFLOW 12.2 OVERFLOW 9.0 2 BOILERS 8 HRS														
MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT. GELL 3000# BENEX 12# WATER														
29	STANDS DP 2300.78 FT.	Drilling or Core Bit No. 6												
4	SNGLS. DP 114.72 FT.	TYPE 588	2264	9		2273								
5	8" OD 148.29 FT.	SIZE 12 1/4												
3	RMR BODY 89.27 FT.	NOZZ. SIZE 3/12												
2	STB BODY 14.00 FT.	SERIAL No. 329127												
2	SUBS 3.54 FT.	DEPTH IN 2264												
1	BIT 5.88 FT.	DEPTH OUT												
1	55.9" 9.12 FT.	FT. DRILLED 9												
	Kelly Down 1300 FT.	FT. REAMED												
	TOTAL 2273 FT.	FT. CORED												
	WT OF STRING 110M LBS.	CUM. HRS. RUN 5												
	DRILLER													
	WEATHER CONDITIONS													
REMARKS: 1/4 RIG SERVICE LK. BOPS 1/4 SERVED at 2264 1/4 HOIST change BIT Run in hole Drill 12 1/4 hole Run DESILTER 5 hrs OVERFLOW 12.1 UNDERFLOW 8.9														
MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT. WATER														
4	STANDS DP 2300.78 FT.	Drilling or Core Bit No. 7												
5	SNGLS. DP 114.72 FT.	TYPE 5-835KH	2273	32		2305								
4	8" OD 114.72 FT.	SIZE 12 1/4 12 1/4												
5	8" OD 148.29 FT.	NOZZ. SIZE 3/12 3/12												
2	RMR BODY 89.27 FT.	SERIAL No. 329127												
2	STB BODY 14.00 FT.	DEPTH IN 2264 2305												
2	SUBS 3.54 FT.	DEPTH OUT												
1	BIT 5.88 FT.	FT. DRILLED 41												
1	55.9" 9.12 FT.	FT. REAMED												
	Kelly Down 13.30 FT.	FT. CORED												
	TOTAL 2305.00 FT.	CUM. HRS. RUN 10 1/4												
	WT OF STRING 110M LBS.	CONDITION 1-1												
	DRILLER Kyle Nash													
	WEATHER CONDITIONS													
REMARKS: 1/4 DR LG 12 1/4" HOLE 1/4 RIG SER 1/4 SURVEY @ 2300 1/4 DR LG 12 1/4" HOLE 1/4 TRIP FOR BIT # 7														
MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT. GEL 1000 BENDEX 4 CAUSTIC 100														

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION Amoco McPherson		No. B-25		PROVINCE N. W. T					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. #2	DRILL PIPE STRING No. SIZE 2 5"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		1. MANUFACTURER NAF		TYPE 10-P-130		2. B-D		BXR			
TIME DISTRIBUTION - HOURS													
MORNING TOUR													
DRILLING													
TRIPPING													
RIG MAINTENANCE													
RIG REPAIRS													
HOLE SURVEYS													
CONDITIONING MUD													
CONDITIONING HOLE													
Reaming & Cleaning To Bottom													
WORKING OR STUCK PIPE													
FISHING													
LOST CIRCULATION													
CASING													
WAITING ON CEMENT													
HEADING UP & DRILLING OUT													
MISC. ELLANEOUS													
SUB TOTAL													
DAYWORK HOURS													
TOTAL HOURS		8 8 8											
WIRE LINE RECORD													
REEL No.													
No. OF LINES		10 SIZE 3/8											
FEET SLIPPED													
FEET CUT OFF													
PRESENT LENGTH		2938											
TON MI. or TRIPS SINCE LAST CUT		372											
CUMULATIVE TON MI. or TRIPS		18,134											
No. OF DAYS FROM SPUD		17											
CUMULATIVE ROTATING HRS.													
DAYS SINCE LAST ACCDNT.													
DRILLER ACCDNT. FREE DAYS													
MORNING TOUR													
DAY TOUR													
EVENING TOUR		13											

FORM DI-167

Gallons of Diesel Fuel on Hand at 8:00 a.m. **39" 2339 Hols**REPORT No. **17**DATE: **24-1-72**

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE	
UNION OIL LTD		PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2" OD	DRILL PIPE GRADE	E	UNION AMOCO McPHERSON		B-25	N.W.T.
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMPS		CASING & LINER RECORD		DEPTH SET		TYPE OF CEMENT		CEMENT USED	OTHER
1. NAT		10-P-130		2. B-D		GXR		133 1/2 155		0 1524		1570	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		MORNING TOUR		DAY TOUR		EVENING TOUR	
DRILLING		7 1/2		6 1/2		1 1/4		17		STANDS DP		2020.82	
TRIPPING		1		1 1/4		1 1/4		4		SNGLS. DP		114.72	
RIG MAINTENANCE		1/4		1/4		1/4		5		D.C.		8" OD	
RIG REPAIRS		3/4		3/4		3/4		2		RMR BODY		89.57	
HOLE SURVEYS		1/4		1/4		1/4		2		STB BODY		14.00	
CONDITIONING MUD		1/4		1/4		1/4		1		SUBS		3.54	
CONDITIONING HOLE		1/4		1/4		1/4		1		BIT		5.88	
Reaming & Cleaning To Bottom		1/4		1/4		1/4		1		Kelly Down		28	
WORKING OR STUCK PIPE		1/4		1/4		1/4		1		TOTAL		2007	
FISHING		1/4		1/4		1/4		1		WT OF STRING		106,000	
LOST CIRCULATION		1/4		1/4		1/4		1		DRILLER		Row Chambers	
CASING		1/4		1/4		1/4		1		WEATHER CONDITIONS		MILD	
WAITING ON CEMENT		1/4		1/4		1/4		1		No.		DRILLING ASSEMBLY	
HEADING UP & DRILLING OUT		1/4		1/4		1/4		1		17		STANDS DP	
MISCELLANEOUS		1/4		1/4		1/4		1		1		SNGLS. DP	
SUB TOTAL		1/4		1/4		1/4		1		4		D.C.	
DAYWORK HOURS		1/4		1/4		1/4		1		5		8" OD	
TOTAL HOURS		1/4		1/4		1/4		1		3		RMR BODY	
WIRE LINE RECORD		1/4		1/4		1/4		1		2		STB BODY	
REEL No.		1/4		1/4		1/4		1		2		SUBS	
No. OF LINES		1/4		1/4		1/4		1		1		BIT	
FEET SLIPPED		1/4		1/4		1/4		1		1		Kelly Down	
FEET CUT OFF		1/4		1/4		1/4		1		1		TOTAL	
PRESENT LENGTH		1/4		1/4		1/4		1		1		WT OF STRING	
TON MI. or TRIPS SINCE LAST CUT		1/4		1/4		1/4		1		1		DRILLER	
CUMULATIVE TON MI. or TRIPS		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
No. OF DAYS FROM SPUD		1/4		1/4		1/4		1		1		No.	
CUMULATIVE ROTATING HRS.		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
DAYS SINCE LAST ACCDNT.		1/4		1/4		1/4		1		1		17	
DRILLER ACCDNT. FREE DAYS		1/4		1/4		1/4		1		1		STANDS DP	
MORNING TOUR		1/4		1/4		1/4		1		1		SNGLS. DP	
DAY TOUR		1/4		1/4		1/4		1		1		D.C.	
EVENING TOUR		1/4		1/4		1/4		1		1		8" OD	
FORM D1-167		1/4		1/4		1/4		1		1		RMR BODY	
Gallons of Diesel Fuel on Hand at 3:00 a.m.		1/4		1/4		1/4		1		1		STB BODY	
REPORT No.		1/4		1/4		1/4		1		1		SUBS	
DATE		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
23-1-72		1/4		1/4		1/4		1		1		TOTAL	
47" 2920		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4		1/4		1		1		WEATHER CONDITIONS	
16		1/4		1/4		1/4		1		1		No.	
16		1/4		1/4		1/4		1		1		DRILLING ASSEMBLY	
16		1/4		1/4		1/4		1		1		17	
16		1/4		1/4		1/4		1		1		STANDS DP	
16		1/4		1/4		1/4		1		1		SNGLS. DP	
16		1/4		1/4		1/4		1		1		D.C.	
16		1/4		1/4		1/4		1		1		8" OD	
16		1/4		1/4		1/4		1		1		RMR BODY	
16		1/4		1/4		1/4		1		1		STB BODY	
16		1/4		1/4		1/4		1		1		SUBS	
16		1/4		1/4		1/4		1		1		BIT	
16		1/4		1/4		1/4		1		1		Kelly Down	
16		1/4		1/4		1/4		1		1		TOTAL	
16		1/4		1/4		1/4		1		1		WT OF STRING	
16		1/4		1/4		1/4		1		1		DRILLER	
16		1/4		1/4									

DAILY TOUR REPORT

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																
UNION OIL LTD								UNION AMOCO McPERSON	B-25	N.W.T.																
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER											
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD	4 1/2 X H	E	No. MANUFACTURER TYPE		1. NAT 100-130					1570												
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																								
Charles Schneider		R. Roselt																								
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
Morn Day Eve		16 STANDS DP 1501.68 FT.		Drilling or Core Bit No. 2		1875		45		1920						100	20	1400	6"	120	7 1/2	TIME	1st HR.	3rd HR.	5th HR.	7th HR.
DRILLING 7 1/2 6 1/2		1 SNGLS. DP 30.66 FT.		TYPE 544																		WEIGHT	9.4	9.3	9.2	9.1
TRIPPING 1 1/2 5 1/4		6 D.C. 172.03 FT.		SIZE 12 1/4																		VISC.	35	36	36	35
RIG MAINTENANCE 1/4 1/4 1/4		3 8" OD 88.89 FT.		NOZZ. SIZE 3/12																		W.L.-C.C.		10.4	9.6	
RIG REPAIRS		3 RMR BODY 89.57 FT.		SERIAL No. 300330																		FLTR. CK.				
HOLE SURVEYS 1/4 1/4		2 STB BODY 14.00 FT.		DEPTH IN 1734																		pH		10.5	10.	
CONDITIONING MUD		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 1200 1/3																		SD. CONT.				
CONDITIONING HOLE		1 BIT SUB 4.89 FT.		FT. DRILLED 186																		MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom		Kelly Down 16' FT.		FT. CORED																		TYPE	AMT.	TYPE	AMT.	
WORKING CR STUCK PIPE		TOTAL 1920 FT.		CUM. HRS. RUN 20 1/4																		BELL H800				
FISHING		WT OF STRING 108,000 LBS.		CONDITION																		BENEX 20				
LOST CIRCULATION		DRILLER Row Chambers		WEATHER CONDITIONS MILD.																		WATER.				
CASING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
WAITING ON CEMENT		16 STANDS DP 1914.63 FT.		Drilling or Core Bit No. 2		1920		26		1948						100	25	1400	6"	120		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
HEADING UP & DRILLING OUT		2 SNGLS. DP 614.4 FT.		TYPE 544																		WEIGHT	7.5	9.4	9.35	
MISC ELLANEOUS		6 9" OD 112.03 FT.		SIZE 12 1/4																		VISC.	40	42	38	
SUB TOTAL		3 8" OD 88.89 FT.		NOZZ. SIZE 3/12																		W.L.-C.C.				
DAYWORK HOURS		3 RMR BODY 89.57 FT.		SERIAL No. 300330																		FLTR. CK.				
TOTAL HOURS 8 8 8		2 STB BODY 14.00 FT.		DEPTH IN 1734																		pH	10.0			
WIFE LINE RECORD		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 1948																		SD. CONT.				
REEL No.		1 BIT SUB 4.89 FT.		FT. DRILLED 214																		MUD & CHEMICALS ADDED				
No. OF LINES 10 SIZE 1 3/8		Kelly Down 1300 FT.		FT. CORED																		TYPE	AMT.	TYPE	AMT.	
FEET SLIPPED		TOTAL 1948 FT.		CUM. HRS. RUN 26 1/4																		GEL 3100				
FEET CUT OFF		WT OF STRING 108,000 LBS.		CONDITION 884																		BENEX 12				
PRESENT LENGTH		DRILLER J. Schmidt		WEATHER CONDITIONS																		MUD RECORD				
TON MI. or TRIPS SINCE LAST CUT		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.
CUMULATIVE TON MI. or TRIPS		16 STANDS DP 1501.68 FT.		Drilling or Core Bit No. 3		1948		19		1967						80	20	1400	6"	120	2 1/2	WEIGHT				
No. OF DAYS FROM SPUD		2 SNGLS. DP 614.4 FT.		TYPE 744-1																		VISC.				
DAYS SINCE LAST ACCNT.		4 9" OD 114.72 FT.		SIZE 12 1/4																		W.L.-C.C.				
DRILLER ACCNT. FREE DAYS		5 8" OD 148.27 FT.		NOZZ. SIZE 3/12 1/2																		FLTR. CK.				
MORNING TOUR		3 RMR BODY 89.57 FT.		SERIAL No. 326208																		pH		10.5		
DAY TOUR		2 STB BODY 14.00 FT.		DEPTH IN 1948																		SD. CONT.				
EVENING TOUR		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 440 4/5																		MUD & CHEMICALS ADDED				
		1 BIT SUB 5.88 FT.		FT. DRILLED 19																		TYPE	AMT.	TYPE	AMT.	
		Kelly Down 18.88 FT.		FT. CORED																		GEL 500				
		TOTAL 1967.00 FT.		CUM. HRS. RUN 2 1/2																		BENEX 2				
		WT OF STRING 105,000 LBS.		CONDITION INC																		MUD RECORD				
		DRILLER Kyle Nash		WEATHER CONDITIONS MILD - 20°																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	WEIGHT				
		16 STANDS DP 1501.68 FT.		Drilling or Core Bit No. 3		1948		19		1967						80	20	1400	6"	120	2 1/2	VISC.				
		2 SNGLS. DP 614.4 FT.		TYPE 744-1																		W.L.-C.C.				
		4 9" OD 114.72 FT.		SIZE 12 1/4																		FLTR. CK.				
		5 8" OD 148.27 FT.		NOZZ. SIZE 3/12 1/2																		pH		10.5		
		3 RMR BODY 89.57 FT.		SERIAL No. 326208																		SD. CONT.				
		2 STB BODY 14.00 FT.		DEPTH IN 1948																		MUD & CHEMICALS ADDED				
		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 440 4/5																		TYPE	AMT.	TYPE	AMT.	
		1 BIT SUB 5.88 FT.		FT. DRILLED 19																		GEL 500				
		Kelly Down 18.88 FT.		FT. CORED																		BENEX 2				
		TOTAL 1967.00 FT.		CUM. HRS. RUN 2 1/2																		MUD RECORD				
		WT OF STRING 105,000 LBS.		CONDITION INC																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
		DRILLER Kyle Nash		WEATHER CONDITIONS MILD - 20°																		WEIGHT				
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	VISC.				
		16 STANDS DP 1501.68 FT.		Drilling or Core Bit No. 3		1948		19		1967						80	20	1400	6"	120	2 1/2	W.L.-C.C.				
		2 SNGLS. DP 614.4 FT.		TYPE 744-1																		FLTR. CK.				
		4 9" OD 114.72 FT.		SIZE 12 1/4																		pH		10.5		
		5 8" OD 148.27 FT.		NOZZ. SIZE 3/12 1/2																		SD. CONT.				
		3 RMR BODY 89.57 FT.		SERIAL No. 326208																		MUD & CHEMICALS ADDED				
		2 STB BODY 14.00 FT.		DEPTH IN 1948																		TYPE	AMT.	TYPE	AMT.	
		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 440 4/5																		GEL 500				
		1 BIT SUB 5.88 FT.		FT. DRILLED 19																		BENEX 2				
		Kelly Down 18.88 FT.		FT. CORED																		MUD RECORD				
		TOTAL 1967.00 FT.		CUM. HRS. RUN 2 1/2																		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
		WT OF STRING 105,000 LBS.		CONDITION INC																		WEIGHT				
		DRILLER Kyle Nash		WEATHER CONDITIONS MILD - 20°																		VISC.				
		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	W.L.-C.C.				
		16 STANDS DP 1501.68 FT.		Drilling or Core Bit No. 3		1948		19		1967						80	20	1400	6"	120	2 1/2	FLTR. CK.				
		2 SNGLS. DP 614.4 FT.		TYPE 744-1																		pH		10.5		
		4 9" OD 114.72 FT.		SIZE 12 1/4																		SD. CONT.				
		5 8" OD 148.27 FT.		NOZZ. SIZE 3/12 1/2																		MUD & CHEMICALS ADDED				
		3 RMR BODY 89.57 FT.		SERIAL No. 326208																		TYPE	AMT.	TYPE	AMT.	
		2 STB BODY 14.00 FT.		DEPTH IN 1948																		GEL 500				
		2 SUB 3/8 OD 3.54 FT.		DEPTH OUT 440 4/5																						

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION AMOCO McPHERSON							B-25	N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		#2	2 5"	TYPE THD	4 1/2 X 1/4	E	No. MANUFACTURER TYPE		1. NAT 102-130	2. B-D. GXR	13 1/4 68 155	0 1524	1270	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
HME DISTRIBUTION—HOURS														
MORN		DAY		EVE										
DRILLING		7 5 1/4		1/4										
TRIPPING		1/4		3/4										
RIG MAINTENANCE		1/4		1/4										
RIG REPAIRS														
HOLE SURVEYS		1/2		1/4										
CONDITIONING MUD														
CONDITIONING HOLE														
Reaming & Cleaning To Bottom														
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
MISC. ELLANEOUS														
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS		8 58												
WIRE LINE RECORD														
REEL No.														
No. OF LINES		10		SIZE		1 3/8								
FEET SLIPPED														
FEET CUT OFF														
PRESENT LENGTH														
TON MI. or TRIPS SINCE LAST CUT														
CUMULATIVE TON MI. or TRIPS														
No. OF DAYS FROM SPUD		14												
DAYS SINCE LAST ACCDNT.														
DRILLER ACCDNT. FREE DAYS														
MORNING TOUR														
DAY TOUR														
EVENING TOUR		10												

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 36" 2115 1/2

REPORT No. 14

DATE: 21-1-72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 36" 2115-R

REPORT No. 12

DATE: 20-1-72

CONSERVATION BOARD COPY

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

DATE:

CONSERVATION BOARD COPY

FORM D1-1.67REPORT No. 11

DATE: 18-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE				
UNION OIL LTD		LSD. SEC. TWP. RGE. W.				UNION AMOLD McPHERSON		B-25		N. W. T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2.5"	TYPE THD. X.H.	E	No. MANUFACTURER TYPE								
OPERATOR REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. NAT 10-P-130								
Charles McPherson		H. Roseth				2. G-D G-XR								
3.														
TIME DISTRIBUTION—HOURS														
Morn Day Eve														
DRILLING														
TRIPPING		2 1/4 3												
RIG MAINTENANCE		1/4 1/4												
RIG REPAIRS		1 3/4												
HOLE SURVEYS														
CONDITIONING MUD														
CONDITIONING HOLE		2 1/4												
Reaming & P. To Bottom		8 1/2 3 1/4												
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
MISC. ELLANEOUS		1												
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS		8 8 6												
WIRE LINE RECORD														
REEL No.														
No. OF LINES		10 SIZE 178												
FEET SLIPPED														
FEET CUT OFF														
PRESENT LENGTH														
TON MI. or TRIPS SINCE LAST CUT														
CUMULATIVE TON MI. or TRIPS														
No. OF DAYS FROM SPUD		10												
CUMULATIVE ROTATING HRS.														
DAYS SINCE LAST ACCDNT.		74												
DRILLER ACCDNT. FREE DAYS														
MORNING TOUR		554												
DAY TOUR														
EVENING TOUR														
MORNING TOUR		554												
DAY TOUR														
EVENING TOUR														
No. DRILLING ASSEMBLY														
No. STANDS DP		12 1158.50												
SNGLS. DP		1 172.03												
D.C. 9" OD		2 59.27												
RMR BOD 3/4" OD		1 29.64												
STB BOD 9" OD		2 14.00												
SUBS 1/2 OD		2 3.54												
BIT 5" C.B.		1 4.89												
H.O.		1 4.20												
Kelly Down		31.00												
TOTAL		1477.07												
WT OF STRING		105,000												
DRILLER		P. Rose												
WEATHER CONDITIONS		30 BELOW												
No. DRILLING ASSEMBLY														
No. STANDS DP		12 1123.19												
SNGLS. DP		2 62.00												
D.C. 9" OD		2 59.27												
RMR BOD 3/4" OD		1 29.64												
STB BOD 9" OD		2 14.00												
SUBS 1/2 OD		2 3.54												
BIT 5" C.B.		1 4.89												
H.O.		1 4.20												
Kelly Down		41												
TOTAL		1220												
WT OF STRING		100,000												
DRILLER		R. Chambers												
WEATHER CONDITIONS														
No. DRILLING ASSEMBLY														
No. STANDS DP		13 1290.83												
SNGLS. DP		6 172.03												
D.C. 9" OD		2 59.27												
RMR BOD 3/4" OD		1 29.64												
STB BOD 9" OD		2 14.00												
SUBS 1/2 OD		2 3.54												
BIT 5" C.B.		1 4.89												
H.O.		1 4.20												
Kelly Down		15												
TOTAL		1534												
WT OF STRING		105,000												
DRILLER		A. Schmidt												
WEATHER CONDITIONS														

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE				
UNION OIL LTD		UNION AMOCO McPHERSON		B-25		N. W. T.									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/4" OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2-54	TYPE THD.	XH	E.	No. MANUFACTURER TYPE								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Peter Bawden		H. P. Pouch													
TIME DISTRIBUTION - HOURS															
Morn Day Eve															
DRILLING															
TRIPPING															
RIG MAINTENANCE															
RIG REPAIRS															
HOLE SURVEYS															
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Bottom Hole 17 1/2" 5 1/2" 3 1/4" 1 1/4"															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8 8													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10 SIZE 13/8													
FEET SLIPPED		✓													
FEET CUT OFF		✓													
PRESENT LENGTH		2938													
TON MI. or TRIPS SINCE LAST CUT		131													
CUMULATIVE TON MI. or TRIPS		17893													
No. OF DAYS FROM SPUD		9													
CUMULATIVE ROTATING HRS.		146 1/2													
DAYS SINCE LAST ACCDNT.		73													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR		553													
DAY TOUR															
EVENING TOUR															
FORM DI-1-67															

Gallons of Diesel Fuel or. Hand at 8:00 a.m.

2190

REPORT No. 9

DATE: 16-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION					WELL NAME		No.		PROVINCE			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
UNION OIL LTD						UNION AMOCO McPHERSON								
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	TYPE THD. X.H	E	1. NAT 10-P-130 2. G-D GXR								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
Charles J. Smuder		He Routh												
TIME DISTRIBUTION—HOURS														
Morn Day Eve														
DRILLING 104 76 3														
TRIPPING 3 1 1														
RIG MAINTENANCE 1 7 3 1/4														
RIG REPAIRS														
HOLE SURVEYS														
CONDITIONING MUD														
CONDITIONING HOLE														
Reaming & Cleaning OUT 17 1/2 5 1/2 7 1/2 8														
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION 2 1/2														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
MISC. ELLENEOUS														
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS 8 8 8														
WIRE LINE RECORD														
REEL No.														
No. OF LINES 10 SIZE 138														
FEET SLIPPED														
FEET CUT OFF														
PRESENT LENGTH 2938														
TON MI. or TRIPS SINCE LAST CUT 94														
CUMULATIVE TON MI. or TRIPS 17856														
No. OF DAYS FROM SPUD 8														
CUMULATIVE ROTATING HRS. 125 1/2														
DAYS SINCE LAST ACCDNT. 72														
DRILLER ACCDNT. FREE DAYS														
MORNING TOUR 552														
DAY TOUR														
EVENING TOUR														
Gallons of Diesel Fuel on Hand at 8:00 a.m. 1452														
REPORT No. 8														
DATE: 15-1-72														

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

DATE: 14-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION					WELL NAME		No.		PROVINCE			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
UNION OIL LTD						UNION AMOCO McPHERSON								
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	6 1/4" OD	F	NAT 10-P-130								
OPERATOR REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
TIME DISTRIBUTION - HOURS														
MORNING TOUR														
DRILLING														
TRIPPING														
RIG MAINTENANCE														
RIG REPAIRS														
HOLE SURVEYS														
CONDITIONING MUD														
CONDITIONING HOLE														
Reamite & Clearing To Bottom														
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
MISC. ELANEUS														
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS														
WIRE LINE RECORD														
REEL No.														
No. OF LINES														
FEET SLIPPED														
FEET OUT OFF														
PRESENT LENGTH														
TON MI. OF TRIPS SINCE LAST CUT														
CUMULATIVE TON MI. OF TRIPS														
No. OF DAYS FROM SPUD														
CUMULATIVE ROTATING HRS.														
DAYS SINCE LAST ACCNT.														
DRILLER ACCNT. FREE DAYS														
MORNING TOUR														
DAY TOUR														
EVENING TOUR														
FORM D1-1-67														

Gallons of Diesel Fuel on Hand at 8:00 a.m.

2190

REPORT No. 6

DATE: 13-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE										
UNION OIL LTD		UNION ARMOCO MEMPHIS		B-25		N. W. T.															
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/4 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER						
PETER BAWDEN DRILLING SERVICES LTD.		2	2-5"	TYPE THD.	X.H.	E	No. MANUFACTURER TYPE														
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																			
Charles Henderson		E. Russell																			
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
MORNING TOUR		9 STANDS DP 91047 FT.		Drilling or Core Bit No. 3A		1109		101				1210				160	9/10	1400	6"	120	7
DRILLING		2 SNGLS. DP 11203 FT.		TYPE X16																	
TRIPPING		6 D.C. 9" OD 59.27 FT.		SIZE 12 1/4																	
RIG MAINTENANCE		2 8" OD 59.27 FT.		NOZZ. SIZE 3/4 1/2																	
RIG REPAIRS		1 RM 3 1/4" OD 29.64 FT.		SERIAL No. CH181																	
HOLE SURVEYS		2 STB 9" OD 14.00 FT.		DEPTH IN 1002																	
CONDITIONING MUD		2 SUBS 4" OD 3.54 FT.		DEPTH OUT 1200																	
CONDITIONING HOLE		1 BIT 5" C.B. 4.89 FT.		FT. DRILLED 208																	
Reaming & Cleaning To Bottom		Kelly Down 1614 FT.		FT. CORED																	
WORKING OR STUCK PIPE		TOTAL 121000		CUM. HRS. RUN 16 1/4																	
SHING		WT OF STRING 88000		CONDITION 1NC																	
LOST CIRCULATION		DRILLER R. Russell		WEATHER CONDITIONS 30 BELOW																	
CASING		10 STANDS DP 941.27 FT.		Drilling or Core Bit No. 3A		1210		61				1271				160	9/10	1400	6"	120	7 1/4
WAITING ON CEMENT		1 SNGLS. DP 31.56 FT.		TYPE X16																	
HEADING UP & DRILLING OUT		6 9" OD 172.03 FT.		SIZE 12 1/4																	
MISC. ELLANEOUS		2 8" OD 59.27 FT.		NOZZ. SIZE 3/4 1/2																	
SUB TOTAL		1 RM 3 1/4" OD 29.64 FT.		SERIAL No. CH181																	
DAYWORK HOURS		2 STB 9" OD 14.00 FT.		DEPTH IN 1002																	
TOTAL HOURS 8 8 8		2 SUBS 4" OD 3.54 FT.		DEPTH OUT 1200																	
WIRE LINE RECORD		1 BIT 5" C.B. 4.89 FT.		FT. DRILLED 269																	
REEL No.		Kelly Down 15 FT.		FT. CORED																	
No. OF LINES 10 SIZE 13/4		TOTAL 1271 FT.		CUM. HRS. RUN 22 1/2																	
FEET SLIPPED		WT OF STRING 88000		CONDITION 2 1/2																	
FEET CUT OFF		DRILLER R. Russell		WEATHER CONDITIONS 20° Below																	
PRESENT LENGTH 2938		10 STANDS DP 126604 FT.		Drilling or Core Bit No. 3A 4A		1271		33				1310				160	4/16	1400	6"	120	4 3/4
TON MI. OF TRIPS SINCE LAST CUT 69		2 SNGLS. DP 6257 FT.		TYPE X16 4T3																	
CUMULATIVE TON MI. OF TRIPS 17831		6 D.C. 9" OD 172.03 FT.		SIZE 12 1/4 12 1/4																	
No. OF DAYS FROM SPUD 5		2 8" OD 59.27 FT.		NOZZ. SIZE 3/4 1/2 3/12																	
CUMULATIVE ROTATING HRS. 8042		1 RM 3 1/4" OD 29.64 FT.		SERIAL No. CH181																	
DAYS SINCE LAST ACCDNT. 69		2 STB 9" OD 14.00 FT.		DEPTH IN 1002																	
DRILLER ACCDNT. FREE DAYS		2 SUBS 4" OD 3.54 FT.		DEPTH OUT 1200																	
MORNING TOUR 549		1 BIT 5" C.B. 4.89 FT.		FT. DRILLED 278																	
DAY TOUR		Kelly Down 2236 FT.		FT. CORED																	
EVENING TOUR		TOTAL 1310 FT.		CUM. HRS. RUN 24 3 1/4																	
		WT OF STRING 90000		CONDITION 115																	
		DRILLER R. Russell		WEATHER CONDITIONS																	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION				WELL NAME		No.		PROVINCE					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
UNION OIL LTD.		2	2 1/2	4 1/2	E		UNION AMOCO M'PHERSEN		B-25	N.W.T.					
PETER BAWDEN DRILLING SERVICES LTD.															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Schneider		R. Roseth													
TIME DISTRIBUTION - HOURS															
MORNING TOUR															
DRILLING		7 1/4 5 7 1/4													
TRIPPING		2 1/2													
RIG MAINTENANCE		1 1/4 1/4 1/4													
RIG REPAIRS															
HOLE SURVEYS		1/2 1/4 1/2													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLENEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8 8													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10 SIZE 1 3/8													
FEET SLIPPED		✓													
FEET CUT OFF		✓													
PRESENT LENGTH		2938													
TON MI. or TRIPS SINCE LAST CUT		47													
CUMULATIVE TON MI. or TRIPS		38286													
No. OF DAYS FROM SPUD		4													
CUMULATIVE ROTATING HRS.		62 1/2													
DA SINCE LA. ACCDNT.		68													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR		8													
DAY TOUR		5 4 8													
EVENING TOUR															
DAY TOUR		5 4 8													
EVENING TOUR															
FORM D1-1-67															

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2560

REPORT No. 4

DATE: 11-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION					WELL NAME		No.		PROVINCE				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
LTD. OIL LTD.		2		4 1/2 IF		E	UNION AMCO MCFERSEN								
PETER BAWDEN DRILLING SERVICES LTD.															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
TIME DISTRIBUTION - HOURS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR															
WIRE LINE RECORD															
REEL No.															
No. OF LINES															
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON MI. OF TRIPS SINCE LAST CUT															
CUMULATIVE TON MI. OF TRIPS															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCDNT.															
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR															
GALLONS OF DIESEL FUEL ON HAND AT 8:00 A.M.															
REPORT No.															
DATE															

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m. 2115

REPORT No. 3

DATE: 10-1-72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME UNION AMCO McPHERSON		No. B-25		PROVINCE N.W.T.					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2 1/2"	TOOL JOINT 1 1/4" OD	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD	SIZE WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles McPherson</i>		CONTRACTOR'S TOOL PUSHER <i>A. Routh</i>		No. MANUFACTURER TYPE 1. NAT W-P-130 2. G-D G-R 3.									

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	6 1/4	1 3/4	3 1/2	6	STANDS DP 172.03 FT.	Drilling or Core Bit No. 1A	193	58		237		120	15-5					10 1/2	TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING		3		1	SNGLS. DP 24.68 FT.	TYPE X3													WEIGHT														
RIG MAINTENANCE	1/4	1/4	1/4	1	D.C. 8" OD 24.68 FT.	SIZE 12 1/4													VISC.														
RIG REPAIRS	2	1/2		2	NOZZ. SIZE 3 1/2	NOZZ. SIZE 3 1/2													W.L.C.C.														
HOLE SURVEYS	1/2	1	1/2	2	SERIAL No. FH840	SERIAL No. FH840													FLTR. CK.														
CONDITIONING MUD				2	DEPTH IN 0	DEPTH IN 0													pH														
CONDITIONING HOLE				2	DEPTH OUT 2.94 FT.	DEPTH OUT 2.94 FT.													SD. CONT.														
Reaming & Cleaning To Bottom				2	BIT OR C.B. 4.89 FT.	BIT OR C.B. 4.89 FT.													MUD & CHEMICALS ADDED														
WORKING OR STUCK PIPE				2	FT. DRILLED 4.89 FT.	FT. DRILLED 4.89 FT.													TYPE	AMT.	TYPE	AMT.											
FISHING				2	FT. REAMED	FT. REAMED													Gal 1200														
LOST CIRCULATION				2	Kelly Down 41.00 FT.	FT. CORED													CAUST 37														
CASING				2	TOTAL 251.54 FT.	CUM. HRS. RUN																											
WAITING ON CEMENT				2	WT OF STRING 105.00 LBS.	CONDITION																											
HEADING UP & DRILLING OUT				2	DRILLER <i>Paul Routh</i>																												
MISC. ELLANEOUS				2	WEATHER CONDITIONS 41.80 Below																												
SUB TOTAL				2																													
DAYWORK HOURS				2																													
TOTAL HOURS	8	8	8	2																													

WIRE LINE RECORD										MORNING TOUR										DAY TOUR										EVENING TOUR									
REEL No.										No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
No. OF LINES 10 SIZE 13/8										2	STANDS DP 252.01 FT.	Drilling or Core Bit No. 1A	251	267		518		109	15						TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
FEET SLIPPED										2	SNGLS. DP 172.03 FT.	TYPE X3													WEIGHT														
FEET CUT OFF										2	D.C. 8" OD 59.27 FT.	SIZE 12 1/4													VISC.														
PRESENT LENGTH										2	NOZZ. SIZE 3 1/2	NOZZ. SIZE 3 1/2													W.L.C.C.														
TON MI. or TRIPS SINCE LAST CUT / CUMULATIVE TON MI. or TRIPS										2	SERIAL No. FH840	SERIAL No. FH840													FLTR. CK.														
No. OF DAYS FROM SPUD										2	DEPTH IN 0	DEPTH IN 0													pH														
CUMULATIVE ROTATING HRS.										2	DEPTH OUT 3.54 FT.	DEPTH OUT 3.54 FT.													SD. CONT.														
DAYS SINCE LAST ACCNT.										2	BIT OR C.B. 4.89 FT.	BIT OR C.B. 4.89 FT.													MUD & CHEMICALS ADDED														
DRILLER ACCNT. FREE DAYS										2	FT. DRILLED 4.89 FT.	FT. DRILLED 4.89 FT.													TYPE	AMT.	TYPE	AMT.											
MORNING TOUR										2	FT. REAMED	FT. REAMED													Gal 1000														
DAY TOUR										2	Kelly Down 26 FT.	FT. CORED													CAUST 100														
EVENING TOUR										2	TOTAL 518.14 FT.	CUM. HRS. RUN 2 13/4																											
										2	WT OF STRING 78.00 LBS.	CONDITION 14C																											
										2	DRILLER <i>P. Routh</i>																												
										2	WEATHER CONDITIONS Cold																												

WIRE LINE RECORD										MORNING TOUR										DAY TOUR										EVENING TOUR									
REEL No.										No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
No. OF LINES 10 SIZE 13/8										2	STANDS DP 374.40 FT.	Drilling or Core Bit No. X3 2	514	122		640		109	20					TIME	1st HR.	3rd HR.	5th HR.	7th HR.											
FEET SLIPPED										2	SNGLS. DP 62.84 FT.	TYPE 12 1/4 S-33													WEIGHT														
FEET CUT OFF										2	D.C. 8" OD 17.203 FT.	SIZE 12 1/4													VISC.														
PRESENT LENGTH										2	NOZZ. SIZE 3 1/2	NOZZ. SIZE 3 1/2													W.L.C.C.														
TON MI. or TRIPS SINCE LAST CUT / CUMULATIVE TON MI. or TRIPS										2	SERIAL No. FH840	SERIAL No. FH840													FLTR. CK.														
No. OF DAYS FROM SPUD										2	DEPTH IN 0	DEPTH IN 0													pH														
CUMULATIVE ROTATING HRS.										2	DEPTH OUT 3.54 FT.	DEPTH OUT 3.54 FT.													SD. CONT.														
DAYS SINCE LAST ACCNT.										2	BIT OR C.B. 4.89 FT.	BIT OR C.B. 4.89 FT.													MUD & CHEMICALS ADDED														
DRILLER ACCNT. FREE DAYS										2	FT. DRILLED 4.89 FT.	FT. DRILLED 4.89 FT.													TYPE	AMT.	TYPE	AMT.											
MORNING TOUR										2	FT. REAMED	FT. REAMED													Gal 500														
DAY TOUR										2	Kelly Down 26 FT.	FT. CORED													CAUST 50														
EVENING TOUR										2	TOTAL 640 FT.	CUM. HRS. RUN 2 3/4																											
										2	WT OF STRING 180.00 LBS.	CONDITION 3-12																											
										2	DRILLER <i>Paul Routh</i>																												
										2	WEATHER CONDITIONS Cold																												

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE														
UNION OIL LTD.		PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	UNION AMALO McPHERSON		R-25														
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMPS		CASING & LINER RECORD		SIZE WT. & GR.		DEPTH SET FROM TO		TYPE OF CEMENT	CEMENT USED	OTHER											
Charles McPherson		H. Burt		No. MANUFACTURER TYPE		1. 2. 3.																			
TIME DISTRIBUTION - HOURS		MORNING TOUR		DAY TOUR		EVENING TOUR																			
Morn Day Eve		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD			
DRILLING		STANDS DP		FT. Drilling or Core Bit No.																		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
TRIPPING		SNGLS. DP		FT. TYPE																		WEIGHT			
RIG MAINTENANCE		D.C. OD		FT. SIZE																		VISC.			
RIG REPAIRS		RMR BODY OD		FT. NOZZ. SIZE																		W.L.C.C.			
HOLE SURVEYS		STB BODY OD		FT. SERIAL No.																		FLTR. CK.			
CONDITIONING MUD		SUBS OD		FT. DEPTH IN																		PH			
CONDITIONING HOLE		BIT OR C.B.		FT. FT. DRILLED																		SD. CONT.			
Reaming & Cleaning To Bottom		Kelly Down		FT. FT. CORED																		MUD & CHEMICALS ADDED			
WORKING OR STUCK PIPE		TOTAL		FT. CUM. HRS. RUN																		TYPE AMT. TYPE AMT.			
		WT OF STRING		LBS. CONDITION																					
		DRILLER		WEATHER CONDITIONS																					
		FISHING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD	
LOST CIRCULATION		STANDS DP		FT. Drilling or Core Bit No.																				TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
CASING		SNGLS. DP		FT. TYPE																				WEIGHT	
WAITING ON CEMENT		D.C. OD		FT. SIZE																				VISC.	
HEADING UP & DRILLING OUT		1 9" OD		2884 FT. NOZZ. SIZE																				W.L.C.C.	
RIG UP		RMR BODY OD		FT. SERIAL No.																				FLTR. CK.	
5:45 SPUD		STB BODY OD		FT. DEPTH IN																				PH	
6:00 SPUD		SUBS OD		FT. DEPTH OUT																				SD. CONT.	
SUB TOTAL		BIT OR C.B.		FT. FT. DRILLED																				MUD & CHEMICALS ADDED	
DAYWORK HOURS		Kelly Down		FT. FT. CORED																				TYPE AMT. TYPE AMT.	
TOTAL HOURS		TOTAL		FT. CUM. HRS. RUN																					
WIRE LINE RECORD		WT OF STRING		LBS. CONDITION																					
		DRILLER		WEATHER CONDITIONS																					
		REEL No.		No. OF LINES		SIZE																			
		FEET SLIPPED		FEET CUT OFF		PRESENT LENGTH																			
		TON MI. or TRIPS SINCE LAST CUT		CUMULATIVE TON MI. or TRIPS																					
		No. OF DAYS FROM SPUD		CUMULATIVE ROTATING HRS.																					
		DAYS SINCE LAST ACCDNT.		DRILLER ACCDNT. FREE DAYS																					
		MORNING TOUR		DAY TOUR		EVENING TOUR																			
		4		544																					
		FORM D1-1-67		Gallons of Diesel Fuel on Hand at 8:00 a.m.																					
		REPORT No.		DATE																					
		1		8-1-72																					

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 211

DATE: March 12/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil</i>		LOCATION <i>Block 25</i>	SEC. <i>25</i>	TWP. <i>25</i>	RGE. <i>25</i>	W. <i>25</i>	WELL NAME <i>Union Amoco 7th-7th-25</i>	No. <i>13-25</i>	PROVINCE <i>N. W. J.</i>
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2</i>	TOOL JOINT <i>2</i>	OD <i>2</i>	DRILL PIPE GRADE <i>2</i>	PUMPS No. MANUFACTURER TYPE		CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER
OPERATOR'S REPRESENTATIVE <i>W. H. McArthur</i>		CONTRACTOR'S TOOL PUSHER <i>W. H. McArthur</i>							
TIME DISTRIBUTION—HOURS									
Morn Day Eve									
DRILLING									
TRIPPING									
RIG MAINTENANCE									
RIG REPAIRS									
HOLE SURVEYS									
CONDITIONING MUD									
CONDITIONING HOLE									
Reaming & Cleaning To Bottom									
WORKING OR STUCK PIPE									
FISHING									
LOST CIRCULATION									
CASING									
WAITING ON CEMENT									
HEADING UP & DRILLING OUT									
MISC. ELLANEQUOUS									
SUB TOTAL									
DAYWORK HOURS <i>8 8 8</i>									
TOTAL HOURS <i>8 8 8</i>									
WIRE LINE RECORD									
REEL No.									
No. OF LINES SIZE									
FEET SLIPPED									
FEET CUT OFF									
PRESENT LENGTH									
TON MI. OF TRIPS SINCE LAST CUT									
CUMULATIVE TON MI. OF TRIPS									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
DAYS SINCE LAST ACCDNT.									
DRILLER ACCDNT. FREE DAYS									
MORNING TOUR <i>33</i>									
DAY TOUR									
EVENING TOUR									
Gallons of Diesel Fuel on Hand at 8:00 a.m.									
REPORT No. <i>210</i>									
DATE <i>March 11/73</i>									

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		STANDS DP		FT.		Drilling or Core Bit No.																							
		SNGLS. DP		FT.		TYPE																							
		D.C.		OD		FT.		SIZE																					
		RMR BODY OD		FT.		NOZZ. SIZE																							
		STB BODY OD		FT.		SERIAL No.																							
		SUBS OD		FT.		DEPTH IN																							
		BIT OR C.B.		FT.		DEPTH OUT																							
				FT.		FT. DRILLED																							
				FT.		FT. REAMED																							
		Kelly Down		FT.		FT. CORED																							
		TOTAL		FT.		CUM. HRS. RUN																							
		WT OF STRING		LBS.		CONDITION																							
		DRILLER																											
		WEATHER CONDITIONS																											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil</i>		LOCATION <i>Block # 25</i>		SEC. TWP. RGE. W		WELL NAME <i>Union Oil #1 McPherson</i>		No. <i>B-25</i>		PROVINCE <i>W. Va. J.</i>				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. <i>25</i>	TOOL JOINT <i>6 1/4</i> OD	DRILL PIPE GRADE <i>E+G</i>	PUMPS		CASING & LINER RECORD	SIZE	WT & GR	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>W. Mc Intosh</i>		CONTRACTOR'S TOOL JOINT <i>H. P. Smith</i>		No. <i>1</i>		MANUFACTURER <i>N.S.C.U.</i>		TYPE <i>10 P. 150 G.R.</i>		13 1/8 7 1/2		0 1524 8786		

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR																		
				No. DRILLING ASSEMBLY			BIT RECORD			Depth At Beginning of Tour			Drilled This Tour			Cored or Reamed This Tour			Depth At End of Tour			FORMATION (SHOW CORE RECOVERY)			ROTA-RY R.P.M.			WT ON BIT 1000 #			PUMP PRESS.			LINER SIZE			S.P.M.			HRS. RUN		
				STANDS DP			FT. Drilling or Core Bit No.																																			
				SNGLS. DP			FT. TYPE																																			
				D.C.			FT. SIZE																																			
				RMR BODY OD			FT. NOZZ. SIZE																																			
				STB BODY OD			FT. SERIAL No.																																			
				SUBS OD			FT. DEPTH IN																																			
				BIT OR C.B.			FT. FT. DRILLED																																			
							FT. FT. REAMED																																			
				Kelly Down			FT. FT. CORED																																			
				TOTAL			FT. CUM. HRS. RUN																																			
				WT OF STRING			LBS. CONDITION																																			
				DRILLER			<i>W. H. Dugan</i>																																			
				WEATHER CONDITIONS			<i>Cloudy - 35</i>																																			

				No. DRILLING ASSEMBLY			BIT RECORD			Depth At Beginning of Tour			Drilled This Tour			Cored or Reamed This Tour			Depth At End of Tour			FORMATION (SHOW CORE RECOVERY)			ROTA-RY R.P.M.			WT ON BIT 1000 #			PUMP PRESS.			LINER SIZE			S.P.M.			HRS. RUN		
				STANDS DP			FT. Drilling or Core Bit No.																																			
				SNGLS. DP			FT. TYPE																																			
				D.C.			FT. SIZE																																			
				RMR BODY OD			FT. NOZZ. SIZE																																			
				STB BODY OD			FT. SERIAL No.																																			
				SUBS OD			FT. DEPTH IN																																			
				BIT OR C.B.			FT. FT. DRILLED																																			
							FT. FT. REAMED																																			
				Kelly Down			FT. FT. CORED																																			
				TOTAL			FT. CUM. HRS. RUN																																			
				WT OF STRING			LBS. CONDITION																																			
				DRILLER			<i>P. P. Payne</i>																																			
				WEATHER CONDITIONS			<i>Cloudy - 35</i>																																			

				No. DRILLING ASSEMBLY			BIT RECORD			Depth At Beginning of Tour			Drilled This Tour			Cored or Reamed This Tour			Depth At End of Tour			FORMATION (SHOW CORE RECOVERY)			ROTA-RY R.P.M.			WT ON BIT 1000 #			PUMP PRESS.			LINER SIZE			S.P.M.			HRS. RUN		
				STANDS DP			FT. Drilling or Core Bit No.																																			
				SNGLS. DP			FT. TYPE																																			
				D.C.			FT. SIZE																																			
				RMR BODY OD			FT. NOZZ. SIZE																																			
				STB BODY OD			FT. SERIAL No.																																			
				SUBS OD			FT. DEPTH IN																																			
				BIT OR C.B.			FT. FT. DRILLED																																			
							FT. FT. REAMED																																			
				Kelly Down			FT. FT. CORED																																			
				TOTAL			FT. CUM. HRS. RUN																																			
				WT OF STRING			LBS. CONDITION																																			
				DRILLER			<i>James Amery</i>																																			
				WEATHER CONDITIONS			<i>Cloudy</i>																																			

WIRE LINE RECORD		REEL No.		No. OF LINES		SIZE		FEET SLIPPED		FEET CUT OFF		PRESENT LENGTH		TON MI. or TRIPS SINCE LAST CUT		CUMULATIVE TON MI. or TRIPS		No. OF DAYS FROM SPUD		CUMULATIVE ROTATING HRS.		DAYS SINCE LAST ACCDNT.		DRILLER ACCDNT. FREE DAYS	
MORNING TOUR		<i>32</i>																							
DAY TOUR																									
EVENING TOUR																									

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. *209*DATE: *March 10/73*

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

208

DATE: March 9/73

CONSERVATION BOARD COPY

FORM DI-1.67

REPORT No. 207

DATE: March 8/73

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 206

DATE: March 7/73

CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 205

DATE: 3/6/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR LEVIAN OIL CO		LOCATION BLOCK - 25		SEC. TWP. RGE. W.		WELL NAME LEVIAN HAMACO FT MCPHERSON		No. 13-25		PROVINCE N.W.T.				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. 2	TOOL JOINT 6" OD	DRILL PIPE GRADE E & G	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles McPherson</i>		CONTRACTOR'S TOOL PUSHER <i>A. Heath</i>		TYPE THD. IF		No. MANUFACTURER TYPE		1. NSCO 100-130		2. G.D. GXR				

TIME DISTRIBUTION—HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
Morn	Day	Eve																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING						STANDS DP		FT.														WEIGHT				
TRIPPING						SNGLS. DP		FT.														VISC.				
RIG MAINTENANCE						D.C.		FT.														W.L.-C.C.				
RIG REPAIRS						RMR BODY OD		FT.														FLTR. CK.				
HOLE SURVEYS						STB BODY OD		FT.														pH				
CONDITIONING MUD						SUBS OD		FT.														SD. CONT.				
CONDITIONING HOLE						BIT OR C.B.		FT.														MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom								FT.														TYPE	AMT.	TYPE	AMT.	
WORKING OR STUCK PIPE						Kelly Down		FT.																		
FISHING						TOTAL		FT.																		
LOST CIRCULATION						WT OF STRING		LBS.																		
CASING						DRILLER																				
WAITING ON CEMENT						WEATHER CONDITIONS																				
HEADING UP & DRILLING OUT																										
MISC ELLANEOUS																										
SUB TOTAL																										
DAYWORK HOURS																										
TOTAL HOURS																										

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
REEL No.	No. OF LINES	SIZE																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	10	1 3/8																			WEIGHT				
																					VISC.				
																					W.L.-C.C.				
																					FLTR. CK.				
																					pH				
																					SD. CONT.				
																					MUD & CHEMICALS ADDED				
																					TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Re
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CONSERVATION BOARD COPY

FORM DI-1.67

REPORT No. 203

DATE: 3/4/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE						
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 5"	TYPE THD. I F	IE E C		1. WSCD 100-130 2. C-10 C+K 3.									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER															
Charles Bawden		H. Paseth															
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE											
DRILLING																	
TRIPPING				2													
RIG MAINTENANCE																	
RIG REPAIRS				4													
HOLE SURVEYS																	
CONDITIONING MUD																	
CONDITIONING HOLE																	
Reaming & Cleaning To Bottom																	
WORKING OR STUCK PIPE																	
FISHING				2													
LOST CIRCULATION																	
CASING																	
WAITING ON CEMENT																	
HEADING UP DRILLING OUT																	
MISC. ELLANEOUS																	
SUB TOTAL																	
DAYWORK HOURS																	
TOTAL HOURS				8													
WIRE LINE RECORD																	
REEL No.																	
No. OF LINES																	
SIZE																	
FEET SLIPPED																	
FEET CUT OFF																	
PRESENT LENGTH																	
TON MI. or TRIPS SINCE LAST CUT																	
CUMULATIVE TON MI. or TRIPS																	
No. OF DAYS FROM SPUD																	
CUMULATIVE ROTATING HRS.																	
DAYS SINCE LAST ACCDNT.																	
DRILLER ACCDNT. FREE DAYS																	
MORNING TOUR																	
DAY TOUR				2.5													
EVENING TOUR																	
FORM DI-1-67																	

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 202

DATE: 3/3/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
Union Oil Co		Block-25										LIMBON RANCO RT IN PHN 13-25		13-25		N.M.T.									
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		1 1/2		6" OD		EFG																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
Shirley Chmides		A. Roseth																							
TIME DISTRIBUTION—HOURS		Morn		Day		Even																			
DRILLING																									
TRIPPING				5																					
RIG MAINTENANCE																									
RIG REPAIRS																									
HOLE SURVEYS																									
CONDITIONING MUD																									
CONDITIONING HOLE																									
WORKING OR STUCK PIPE				1 1/2																					
FISHING				1 1/2																					
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELLANEOUS																									
SUB TOTAL																									
DAY WORK HOURS																									
TOTAL HOURS				8																					
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES																									
SIZE																									
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. OF TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. OF TRIPS																									
No. OF DAYS FROM SPUD				201																					
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.																									
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR																									
FORM D1-1.67																									

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
STANDS DP		FT.		Drilling or Core Bit No.																									
SNGLS. DP		FT.		TYPE																									
D.C.		OD		FT.		SIZE																							
RMR BODY		OD		FT.		NOZZ. SIZE																							
STB BODY		OD		FT.		SERIAL No.																							
SUBS		OD		FT.		DEPTH IN																							
BIT OR C.B.		FT.		FT. DRILLED																									
Kelly Down		FT.		FT. REAMED																									
TOTAL		FT.		CUM. HRS. RUN																									
WT OF STRING		LBS.		CONDITION																									
DRILLER																													
WEATHER CONDITIONS																													
Back off 4492 wireline measure																													

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
STANDS DP		FT.		Drilling or Core Bit No.																									
SNGLS. DP		FT.		TYPE																									
D.C.		OD		FT.		SIZE																							
RMR BODY		OD		FT.		NOZZ. SIZE																							
STB BODY		OD		FT.		SERIAL No.																							
SUBS		OD		FT.		DEPTH IN																							
BIT OR C.B.		FT.		FT. DRILLED																									
OVERSHOT 5.47		FT.		FT. REAMED																									
Kelly Down		FT.		FT. CORED																									
TOTAL		FT.		CUM. HRS. RUN																									
WT OF STRING		LBS.		CONDITION																									
DRILLER																													
WEATHER CONDITIONS																													
Run in hole open end pipe. Tighten every 100 ft.																													
Break circ. circ. above fish.																													
Try to screw in to fish. (Failed to do so.)																													
Hoist to run over shot.																													
Make up over shot & run in hole.																													

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
STANDS DP		FT.		Drilling or Core Bit No.																									
SNGLS. DP		FT.		TYPE																									
D.C.		OD		FT.		SIZE																							
RMR BODY		OD		FT.		NOZZ. SIZE																							
STB BODY		OD		FT.		SERIAL No.																							
SUBS		OD		FT.		DEPTH IN																							
BIT OR C.B.		FT.		FT. DRILLED																									
OVERSHOT 1810		FT.		FT. REAMED																									
Kelly Down		FT.		FT. CORED																									
TOTAL		FT.		CUM. HRS. RUN																									
WT OF STRING		LBS.		CONDITION																									
DRILLER																													
WEATHER CONDITIONS																													
Run in w/ over shot																													
Break circ. & circ. on top of fish.																													
Hoist pipe recover 24' of drill pipe.																													
Run in open end																													
circ & try to screw on to fish.																													
Hoist																													
Pick up over shot & run in																													
circ & work over shot.																													
1/2 Hoist																													

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 201

DATE: 3/2/73

CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 200

DATE: 3/1/73

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 199

DATE: 2/28/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.		LOCATION BLOCK 25		SEC. TWP. RGE. W.		WELL NAME UNION AMACO FORT McPHERSON		No. B-25		PROVINCE N.W.T.					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 2 5"	TOOL JOINT 6"	OD OD	DRILL PIPE GRADE E+G	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>		1. MANUFACTURER NSCO		TYPE 100-130		2. G.D.		GXR					

TIME DISTRIBUTION—HOURS				MORNING TOUR												MUD RECORD							
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING				139	STANDS DP	12550 FT.																	
TRIPPING	4 1/2	6 3/4			SNGLS. DP	FT.																	
RIG MAINTENANCE					D.C. OD	FT.																	
RIG REPAIRS					RMR BODY OD	FT.																	
HOLE SURVEYS					STB BODY OD	FT.																	
CONDITIONING MUD					SUBS OD	FT.																	
CONDITIONING HOLE					BIT OR C.B.	FT.																	
Reaming & Cleaning To Bottom						FT.																	
WORKING OR STUCK PIPE						FT.																	
FISHING						FT.																	
LOST CIRCULATION						FT.																	
CASING						FT.																	
WAITING ON CEMENT						FT.																	
HEADING UP & DRILLING OUT						FT.																	
TRY TO BREAK CIRC	3 1/2	1 1/4				FT.																	
SUB TOTAL						FT.																	
DAYWORK HOURS						FT.																	
TOTAL HOURS	8	8				FT.																	
WIRE LINE RECORD																							
REEL No.																							
No. OF LINES SIZE																							
FEET SLIPPED																							
FEET CUT OFF 933																							
PRESENT LENGTH 4100																							
TON MI. or TRIPS SINCE LAST CUT 629																							
CUMULATIVE TON MI. or TRIPS 17941																							
No. OF DAYS FROM SPUD 198																							
CUMULATIVE ROTATING HRS.																							
DAYS SINCE LAST ACCDNT.																							
DRILLER ACCDNT. FREE DAYS																							
MORNING TOUR																							
DAY TOUR																							
EVENING TOUR 21																							

DAY TOUR												MUD RECORD						
No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	STANDS DP	FT.																
	SNGLS. DP	FT.																
	D.C. OD	FT.																
	RMR BODY OD	FT.																
	STB BODY OD	FT.																
	SUBS OD	FT.																
	BIT OR C.B.	FT.																
		FT.																
	Kelly Down	FT.																
	TOTAL	FT.																
	WT OF STRING	LBS.																
	DRILLER																	
	WEATHER CONDITIONS																	

EVENING TOUR												MUD RECORD						
No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	STANDS DP	FT.																
	SNGLS. DP	FT.																
	D.C. OD	FT.																
	RMR BODY OD	FT.																
	STB BODY OD	FT.																
	SUBS OD	FT.																
	BIT OR C.B.	FT.																
		FT.																
	Kelly Down	FT.																
	TOTAL	FT.																
	WT OF STRING	LBS.																
	DRILLER																	
	WEATHER CONDITIONS																	

CONSERVATION BOARD COPY

FORM D1-1-67

DATE: 2/26/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE								
UNION OIL LTD.		B-25						UNION ADAMCO FORT McPHERSON		B-25	N.W.T.								
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER				
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5	TYPE THD.	IF	E+G	No. MANUFACTURER TYPE			13 3/4		0 1524							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1. NSCO 10P-130		2. G.D. 6XR													
Charles Schneider		H. Paseth																	
TIME DISTRIBUTION—HOURS																			
Morn		Day		Eve															
DRILLING																			
TRIPPING																			
RIG MAINTENANCE																			
RIG REPAIRS																			
HOLE SURVEYS																			
CONDITIONING MUD																			
CONDITIONING HOLE																			
Reaming & Cleaning To Bottom																			
WORKING OR STUCK PIPE																			
FISHING																			
LOST CIRCULATION																			
Logging		8		8		8													
WAITING ON CEMENT																			
HEADING UP & DRILLING OUT																			
MISC. ELLANEOUS																			
SUB TOTAL																			
DAYWORK HOURS																			
TOTAL HOURS		8		8		8													
WIRE LINE RECORD																			
REEL No.																			
No. OF LINES		10		SIZE 1 3/8															
FEET SLIPPED																			
FEET CUT OFF		843																	
PRESENT LENGTH		4192																	
TON MI. OF TRIPS SINCE LAST CUT		1050																	
CUMULATIVE TON MI. OF TRIPS		17302																	
No. OF DAYS FROM SPUD		196																	
CUMULATIVE ROTATING HRS.		57894																	
DAYS SINCE LAST ACCNT.																			
DRILLER ACCNT. FREE DAYS																			
MORNING TOUR																			
DAY TOUR																			
EVENING TOUR		19																	
FORM D1-167																			
Gallons of Diesel Fuel on Hand at 8:00 a.m.																			
REPORT No.		196																	
DATE		2/15/73																	

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
1	STANDS DP	FT.	Drilling or Core Bit No.											TIME
2	SNGLS. DP	FT.	TYPE											1st HR.
3	D.C.	FT.	SIZE											3rd HR.
4	RMR BODY OD	FT.	NOZZ. SIZE											5th HR.
5	STB BODY OD	FT.	SERIAL No.											7th HR.
6	SUBS OD	FT.	DEPTH IN											WEIGHT
7	BIT OR C.B.	FT.	FT. DRILLED											VISC.
8		FT.	FT. REAMED											W.L.-C.C.
9	Kelly Down	FT.	FT. CORED											FLTR. CK.
10	TOTAL	FT.	CUM. HRS. RUN											pH
11	WT OF STRING	LBS.	CONDITION											SD. CONT.
12	DRILLER	David Hudis												
13	WEATHER CONDITIONS													
14	DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
15	From	To	Elapsed Time	REMARKS										
16	12:00	8:00	8	Logging w/ SCHLUMBERGER										
17														
18														
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No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
1	STANDS DP	FT.	Drilling or Core Bit No.											TIME
2	SNGLS. DP	FT.	TYPE											1st HR.
3	D.C.	FT.	SIZE											3rd HR.
4	RMR BODY OD	FT.	NOZZ. SIZE											5th HR.
5	STB BODY OD	FT.	SERIAL No.											7th HR.
6	SUBS OD	FT.	DEPTH IN											WEIGHT
7	BIT OR C.B.	FT.	FT. DRILLED											VISC.
8		FT.	FT. REAMED											W.L.-C.C.
9	Kelly Down	FT.	FT. CORED											FLTR. CK.
10	TOTAL	FT.	CUM. HRS. RUN											pH
11	WT OF STRING	LBS.	CONDITION											SD. CONT.
12	DRILLER	Steve Skatichky												
13	WEATHER CONDITIONS													
14	DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
15	From	To	Elapsed Time	REMARKS										
16	4:00	12:00	8	Logging w/ SCHLUMBERGER										
17														
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No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
1	STANDS DP	FT.	Drilling or Core Bit No.											TIME
2	SNGLS. DP	FT.	TYPE											1st HR.
3	D.C.	FT.	SIZE											3rd HR.
4	RMR BODY OD	FT.	NOZZ. SIZE											5th HR.
5	STB BODY OD	FT.	SERIAL No.											7th HR.
6	SUBS OD	FT.	DEPTH IN											WEIGHT
7	BIT OR C.B.	FT.	FT. DRILLED											VISC.
8		FT.	FT. REAMED											W.L.-C.C.
9	Kelly Down	FT.	FT. CORED											FLTR. CK.
10	TOTAL	FT.	CUM. HRS. RUN											pH
11	WT OF STRING	LBS.	CONDITION											SD. CONT.
12	DRILLER	D.H. Dupuis												
13	WEATHER CONDITIONS													
14	DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
15	From	To	Elapsed Time	REMARKS										
16	4:00	12:00	8	Logging w/ SCHLUMBERGER										
17														
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE							
UNION OIL LTD		BLOCK 25					UNION AMOCO FORT Mc PHERSON	8-25	N.W.T.							
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	PUMPS			CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	1 5/8	TYPE THD. IF	E+G		No. MANUFACTURER TYPE				13 3/4		0 1524			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER			1. NSCO 10P-130			2. G.D. G.X.R.			9 3/4			0 8786		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER			1. NSCO 10P-130			2. G.D. G.X.R.			9 3/4			0 8786		
TIME DISTRIBUTION—HOURS																
Morn Day Eve																
DRILLING		2														
TRIPPING		3 1/4														
RIG MAINTENANCE																
RIG REPAIRS																
HOLE SURVEYS																
CONDITIONING MUD																
CONDITIONING HOLE		3														
Reaming & Cleaning To Bottom																
WORKING OR STUCK PIPE																
MORNING TOUR																
DAY TOUR																
EVENING TOUR																
WIRE LINE RECORD																
REEL No.																
No. OF LINES		10 SIZE 1 7/8														
FEET SLIPPED																
FEET CUT OFF		843														
PRESENT LENGTH		4192														
TON MI. or TRIPS SINCE LAST CUT		1050														
CUMULATIVE TON MI. or TRIPS		17302														
No. OF DAYS FROM SPUD		795														
CUMULATIVE ROTATING HRS.		578 3/4														
DAYS SINCE LAST ACCDNT.																
DRILLER ACCDNT. FREE DAYS																
MORNING TOUR																
DAY TOUR																
EVENING TOUR		18														
No. DRILLING ASSEMBLY																
STANDS DP		129550 FT.														
SNGLS. DP		FT.														
D.C.		563.91 FT.														
RMR BODY OD		6.00 FT.														
STB BODY OD		11.15 FT.														
SUBS OD		2.13 FT.														
BIT OR C.B.		5.35 FT.														
JARS		13.75 FT.														
Kelly Down		13.80 FT.														
TOTAL		13570.00 FT.														
WT OF STRING		240m LBS.														
DRILLER		David Hardie														
WEATHER CONDITIONS		MILD														
No. DRILLING ASSEMBLY																
STANDS DP		FT.														
SNGLS. DP		FT.														
D.C.		FT.														
RMR BODY OD		FT.														
STB BODY OD		FT.														
SUBS OD		FT.														
BIT OR C.B.		FT.														
Kelly Down		FT.														
TOTAL		FT.														
WT OF STRING		LBS.														
DRILLER		Steve Skotnicki														
WEATHER CONDITIONS																
No. DRILLING ASSEMBLY																
STANDS DP		FT.														
SNGLS. DP		FT.														
D.C.		FT.														
RMR BODY OD		FT.														
STB BODY OD		FT.														
SUBS OD		FT.														
BIT OR C.B.		FT.														
Kelly Down		FT.														
TOTAL		FT.														
WT OF STRING		LBS.														
DRILLER		Steve Skotnicki														
WEATHER CONDITIONS																
No. DRILLING ASSEMBLY																
STANDS DP		FT.														
SNGLS. DP		FT.														
D.C.		FT.														
RMR BODY OD		FT.														
STB BODY OD		FT.														
SUBS OD		FT.														
BIT OR C.B.		FT.														
Kelly Down		FT.														
TOTAL		FT.														
WT OF STRING		LBS.														
DRILLER		Steve Skotnicki														
WEATHER CONDITIONS																
No. DRILLING ASSEMBLY																
STANDS DP		FT.														
SNGLS. DP		FT.														
D.C.		FT.														
RMR BODY OD		FT.														
STB BODY OD		FT.														
SUBS OD		FT.														
BIT OR C.B.		FT.														
Kelly Down		FT.														
TOTAL		FT.														
WT OF STRING		LBS.														
DRILLER		Steve Skotnicki														
WEATHER CONDITIONS																

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
UNION OIL LTD.		BLADIS 25						UNION AMOCO FORT McPHERSON	B-25	N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD.	1 F	E+G	No. MANUFACTURER TYPE		1. NSCO 10P-130	13 3/4		0 1524			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER						2. G.D. GXR		9 3/4		0 8786			
3. G.D. GXR															

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR																			
				Morn		Day		Eve		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD					
DRILLING				7 3/4		7 3/4		7 3/4		19		D.C. 6 3/4		563.91 FT.		NOZZ. SIZE 3-15		13245		93		13238				44		20 1/2		1800		4		108		7 3/4		WEIGHT 110 110 110 110					
TRIPPING										1		RMR BODY OD		6.00 FT.		SERIAL No. 912264																						VISC. 97 94 88 86					
RIG MAINTENANCE				1/4		1/4		1/4		2		STB BODY OD		11.15 FT.		DEPTH IN 13200																						W.L.-C.C. 7.2 6.8					
RIG REPAIRS										1		SUBS 9/16		2.13 FT.		DEPTH OUT 1200																						FLTR. CK. 2/32 2/32					
HOLE SURVEYS										2		BIT OR C.B.		5.35 FT.		FT. DRILLED 233																						pH 9.5 9.0 9.0 9.5					
CONDITIONING MUD										1		JARS		13.75 FT.		FT. REAMED 233																						SD. CONT.					
CONDITIONING HOLE										2		Kelly Down		24.97 FT.		FT. CORED 233																						MUD & CHEMICALS ADDED					
Reaming & Cleaning To Bottom										1		TOTAL		13328 FT.		CUM. HRS. RUN 10 1/2																						TYPE AMT. TYPE AMT.					
WORKING OR STUCK PIPE										2		WT OF STRING		2400 LBS.		CONDITION 0.8																						GEL 1800					
FISHING										1		DRILLER		David H. H. H.																								BENEX 8					
LOST CIRCULATION										2		WEATHER CONDITIONS		MILD																								SODA ASH 200					
CASING										1		137		STANDS DP		FT. 114		13338		85		13423				49		39		1800		6"		108						GILSONITE 100			
WAITING ON CEMENT										2		1		SINGLS. DP		12800.55 FT.		13338		85		13423				49		39		1800		6"		108									
HEADING UP & DRILLING OUT										2		D.C.		563.91 FT.		NOZZ. SIZE 3-15																											
MISC. ELANEUS										1		RMR BODY OD		6.00 FT.		SERIAL No. 912264																											
SUB TOTAL										2		STB BODY OD		11.15 FT.		DEPTH IN 13200																											
DAYWORK HOURS										2		SUBS 9/16		2.13 FT.		DEPTH OUT 1200																											
TOTAL HOURS				8		8		8		1		BIT OR C.B.		5.35 FT.		FT. DRILLED 233																											
WIRE LINE RECORD										2		JARS		13.75 FT.		FT. REAMED 233																											
REEL No.										1		Kelly Down		19.16 FT.		FT. CORED 233																											
No. OF LINES				10		SIZE 1 3/8				2		TOTAL		13423 FT.		CUM. HRS. RUN 18 1/2																											
FEET SLIPPED										1		WT OF STRING		2400 LBS.		CONDITION 0.8																											
FEET CUT OFF				843						2		DRILLER		Steve H. H. H.																													
PRESENT LENGTH				4192						1		WEATHER CONDITIONS		MILD																													
TON MI. OF TRIPS SINCE LAST CUT				712						2		138		STANDS DP		FT. 114		13423		134		13557																					
CUMULATIVE TON MI. OF TRIPS				16.964						1		D.C.		563.91 FT.		NOZZ. SIZE 3-15																											
No. OF DAYS FROM SPUD				194						2		RMR BODY OD		6.00 FT.		SERIAL No. 912264																											
CUMULATIVE ROTATING HRS.				576 3/4						1		STB BODY OD		11.15 FT.		DEPTH IN 13200																											
DAYS SINCE LAST ACCDNT.				3						2		SUBS 9/16		2.13 FT.		DEPTH OUT 1200																											
DRILLER ACCDNT. FREE DAYS										1		BIT OR C.B.		5.35 FT.		FT. DRILLED 357																											
MORNING TOUR										2		JARS		13.75 FT.		FT. REAMED 233																											
DAY TOUR										1		Kelly Down		19.16 FT.		FT. CORED 233																											
EVENING TOUR				17						2		TOTAL		13423 FT.		CUM. HRS. RUN 26																											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
UNION AMOCO LTD.		B-25					UNION AMOCO PORT McPHERSON	B-25	N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SFT FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2.5"	6 1/2 OD	F + G	Nasco G-X-R 100 P-130 G.O.		1336 952	0	1524	0	1786		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
Charles Schneider		H. Roseth												
TIME DISTRIBUTION—HOURS														
Morn Day Eve														
DRILLING		23 1/2												
TRIPPING		677 1/2												
RIG MAINTENANCE														
RIG REPAIRS														
HOLE SURVEYS														
CONDITIONING MUD														
CONDITIONING HOLE														
Reaming & Cleaning To Bottom		3 1/4												
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
RIG TO TEST		1 1/2												
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS														
WIRE LINE RECORD														
REEL No.														
No. OF LINES		10 SIZE 1 3/8												
FEET SLIPPED														
FEET CUT OFF		843												
PRESENT LENGTH		4192												
TON MI. OF TRIPS SINCE LAST CUT		712												
CUMULATIVE TON MI. OF TRIPS		16964												
No. OF DAYS FROM SPUD		193												
CUMULATIVE ROTATING HRS.														
DAYS SINCE LAST ACCONT.														
DRILLER ACCONT. FREE DAYS														
MORNING TOUR														
DAY TOUR														
EVENING TOUR		16												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
132	STANDS DP 12449.98 FT.	Drilling or Core Bit No. 114												
2	SNGLS. DP 12449.98 FT.	TYPE M88												
17	D.C. 439.51 FT.	SIZE 8 1/2												
1	RMR BODY OD 13.75 FT.	NOZZ. SIZE 3/15												
1	STB BODY OD 5.40 FT.	SERIAL No. 912204												
1	SUBS DP 0.13 FT.	DEPTH IN 13200												
1	BIT OR C.H. 7.00 FT.	DEPTH OUT 13200												
1	STB BODY OD 12.590 FT.	FT. DRILLED 13200												
1	Kelly Down 12.590 FT.	FT. REAMED 13200												
	TOTAL 13213.75 FT.	FT. CORED 13200												
	WT OF STRING LBS.	CUM. HRS. RUN												
	DRILLER David Handie	CONDITION												
	WEATHER CONDITIONS													
TRIP IN W/ D.S.T. #2, FILL W/ RIG TO TEST. Taking Break off hood Pull out of hole. DST #2 Inst 13112 - 13200 - 88 Ft Tool Open 6:35 - 7:05. Rubber Rubbers Failed Try to Reset Tool.														
134	STANDS DP 12558.84 FT.	Drilling or Core Bit No. 114												
2	SNGLS. DP 12558.84 FT.	TYPE M88												
19	D.C. 563.91 FT.	SIZE 8 1/2												
1	RMR BODY OD 6.00 FT.	NOZZ. SIZE 3/15												
2	STB BODY OD 11.15 FT.	SERIAL No. 912204												
2	SUBS DP 2.13 FT.	DEPTH IN 13200												
1	BIT OR C.H. 5.35 FT.	DEPTH OUT 13200												
1	JARS 13.75 FT.	FT. DRILLED 13200												
1	Kelly Down 38.17 FT.	FT. REAMED 13200												
	TOTAL 13200 FT.	FT. CORED 13200												
	WT OF STRING LBS.	CUM. HRS. RUN												
	DRILLER Stan Shatunsky	CONDITION												
	WEATHER CONDITIONS													
HAIST OUT W/ DST #2. BREAK DOWN TESTING TOOL. RUN IN W/ D.C. MAKE DRAG STRING. Two Rubbers Damaged on Test (H.S.)														
135	STANDS DP 12619.10 FT.	Drilling or Core Bit No. 114												
1	SNGLS. DP 12619.10 FT.	TYPE M88												
19	D.C. 563.91 FT.	SIZE 8 1/2												
1	RMR BODY OD 6.00 FT.	NOZZ. SIZE 3/15												
2	STB BODY OD 11.15 FT.	SERIAL No. 912204												
2	SUBS DP 2.13 FT.	DEPTH IN 13200												
1	BIT OR C.H. 5.35 FT.	DEPTH OUT 13200												
1	JARS 13.75 FT.	FT. DRILLED 13200												
1	Kelly Down 23.61 FT.	FT. REAMED 13200												
	TOTAL 13245 FT.	FT. CORED 13200												
	WT OF STRING LBS.	CUM. HRS. RUN												
	DRILLER C.H. Dugan	CONDITION												
	WEATHER CONDITIONS													
Run in hole w/ BIT # 114. Break Circ + Clean in Bit To B.T.M. Drag 8 1/2" hole.														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
135	STANDS DP 12619.10 FT.	Drilling or Core Bit No. 114												
1	SNGLS. DP 12619.10 FT.	TYPE M88												
19	D.C. 563.91 FT.	SIZE 8 1/2												
1	RMR BODY OD 6.00 FT.	NOZZ. SIZE 3/15												
2	STB BODY OD 11.15 FT.	SERIAL No. 912204												
2	SUBS DP 2.13 FT.	DEPTH IN 13200												
1	BIT OR C.H. 5.35 FT.	DEPTH OUT 13200												
1	JARS 13.75 FT.	FT. DRILLED 13200												
1	Kelly Down 23.61 FT.	FT. REAMED 13200												
	TOTAL 13245 FT.	FT. CORED 13200												
	WT OF STRING LBS.	CUM. HRS. RUN												
	DRILLER C.H. Dugan	CONDITION												
	WEATHER CONDITIONS													
Run in hole w/ BIT # 114. Break Circ + Clean in Bit To B.T.M. Drag 8 1/2" hole.														

CONSERVATION BOARD COPY

FORM DI-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 192

DATE: FEB 21/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE
Huron Dr. LTD		Block 25					Union Amoco FT. H. PERSON	B-25	N.W.T.
CONTRACTOR		RIG No.	DRILL PIPE STRING No.	TOO JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	
PETER SAWDEN DRILLING SERVICES LTD.		2	25	IF	LAG	No. MANUFACTURER TYPE		SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1 N.A.S. 10-P. 130		13 1/2 0 1524	
Charles Rosell		H Rosell				2 G.D. G.R.		9 1/2 0 8786	

TIME DISTRIBUTION—HOURS			MORNING TOUR		DAY TOUR		EVENING TOUR	
	Morn	Day	Eve					
DRILLING								
TRIPPING	5	6 1/4	6					
RIG MAINTENANCE								
RIG REPAIRS								
HOLE SURVEYS	4							
CONDITIONING MUD								
CONDITIONING HOLE	1 1/2							
Reaming & Cleaning To Bottom								
WORKING OR STUCK PIPE								
FISHING								
LOST CIRCULATION								
CASING								
WAITING ON CEMENT								
HEADING UP & DRILLING OUT								
MAN OIL								
ELLAND								
SUB TOTAL								
DAYWORK HOURS								
TOTAL HOURS	8							
WIRE LINE RECORD								
REEL No.								
No. OF LINES	SIZE							
FEET SLIPPED								
FEET CUT OFF								
PRESENT LENGTH								
TON MI. OF TRIPS SINCE LAST CUT								
CUMULATIVE TON MI. OF TRIPS								
No. OF DAYS FROM SPUD	191							
CUMULATIVE ROTATING HRS.								
DAYS SINCE LAST ACCNT.								
DRILLER ACCNT. FREE DAYS								
MORNING TOUR								
DAY TOUR								
EVENING TOUR								

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME 1st HR. 3rd HR. 5th HR. 7th HR.
134	STANDS DP	1249.32												
	SNGLS. DP	FT.	TYPE											
	D.C.	OD	FT.	SIZE										
21	6 3/4 OD	621.57		NOZZ. SIZE										
1	RMR BODY OD	2.00		SERIAL No.										
	STB BODY OD	11.15		DEPTH IN										
	SUBS OD	2.13		DEPTH OUT										
	BIT OR C.B.	5.35		FT. DRILLED										
	JARS	13.75		FT. REAMED										
	Kelly Down	17.73		FT. CORED										
	TOTAL	13.75		CUM. HRS. RUN										
	WT OF STRING	256.0		CONDITION										
	DRILLER	Jarvis Smith												
	WEATHER CONDITIONS	MILD												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME 1st HR. 3rd HR. 5th HR. 7th HR.
0	STANDS DP	0649.92												
13	D.C. 6 3/4 OD	384.19		SIZE										
	OD	FT.	NOZZ. SIZE											
	RMR BODY OD	FT.	SERIAL No.											
	STB BODY OD	FT.	DEPTH IN											
2	SUBS OD	2.13		DEPTH OUT										
	TEST OR C.B.	130.90		FT. DRILLED										
	JARS	13.75		FT. REAMED										
	Kelly Down	FT.	FT. CORED											
	TOTAL	FT.	CUM. HRS. RUN											
	WT OF STRING	LBS.	CONDITION											
	DRILLER	David Handie												
	WEATHER CONDITIONS	MILD												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME 1st HR. 3rd HR. 5th HR. 7th HR.
	STANDS DP	FT.												
	SNGLS. DP	FT.	TYPE											
	D.C.	OD	FT.	SIZE										
	OD	FT.	NOZZ. SIZE											
	RMR BODY OD	FT.	SERIAL No.											
	STB BODY OD	FT.	DEPTH IN											
	SUBS OD	FT.	DEPTH OUT											
	BIT OR C.B.	FT.	FT. DRILLED											
	Kelly Down	FT.	FT. CORED											
	TOTAL	FT.	CUM. HRS. RUN											
	WT OF STRING	LBS.	CONDITION											
	DRILLER	Steve Shatunsky												
	WEATHER CONDITIONS													

REMARKS: CIRC TO SAND HOLE TO TEST
BROP SURVEY @ 131.75
HOIST & LAY DOWN REAMERS SUBS & JARS.
PICK UP 1 DRILL COLLAR & TEST TOOL & MAKEUP SAME
TEST # 1

REMARKS: MAKE UP OF D.S.T. #1
RUN IN W/ D.S.T. #1, 4000' WATER CUSHION
RIG TO TEST

REMARKS: DST #1 Int 130.80-131.75 Mis Run
No Packer Seat
Bottom Hole Temp 238

REMARKS: TRY TO TEST PACKERS DON'T SEAT
TRIP OUT W/ PACKERS.
BREAK DOWN TEST TOOLS

REMARKS: 2 Testing Rubbers Damaged

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE															
Union Drilling Ltd		Black 25										Union Drilling Ltd		B-25		N.W.T.															
CONTRACTOR		RIG No.	DRILL PIPE STRING No.	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER														
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5	6 1/2	IF	E & G					FROM TO																				
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
No.		MANUFACTURER		TYPE																											
1.		NAT		N-P-130																											
2.		G.D.		GXR																											
3.																															
TIME DISTRIBUTION - HOURS		MORN		DAY		EVE																									
DRILLING		1 1/2		3		5 1/2																									
TRIPPING		6 1/4		4 1/4																											
RIG MAINTENANCE																															
RIG REPAIRS																															
HOLE SURVEYS																															
CONDITIONING MUD																															
CONDITIONING HOLE																															
Reaming & Cleaning To Bottom																															
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
CASING																															
WAITING ON CEMENT																															
HEADING UP & DRILLING OUT																															
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS		8		8		8																									
WIRE LINE RECORD																															
REEL No.																															
No. OF LINES		10		SIZE 1 1/2																											
FEET SLIPPED		13		8																											
FEET CUT OFF																															
PRESENT LENGTH																															
TON MI. OF TRIPS SINCE LAST CUT																															
CUMULATIVE TON MI. OF TRIPS																															
No. OF DAYS FROM SPUD																															
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCONT.																															
DRILLER ACCONT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR																															
EVENING TOUR																															
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
133		STANDS DP 12381.91 FT.		Drilling of Core Bit No. 111 112		13075		6		13081																		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
		SNGLS. DP		FT. TYPE		54 51 51 51																						WEIGHT 11.0			
		D.C. OD		FT. SIZE		8 1/2 8 1/2																						VISC. 97			
		21 6 3/4 OD		621.57 FT.		NOZZ. SIZE 3-15 1 1/2 3/4																						W.L.C.C. 2.2			
		RMR BODY OD		6.00 FT.		SERIAL No. 875120 F0802																						FLTR. CK. 432			
		STB BODY OD		11.15 FT.		DEPTH IN 12474 13081																						PH 9.5			
		2 SUBS 1/2 OD		2.13 FT.		DEPTH OUT 13081																						SD. CONT.			
		1 BIT OR C.B.		5.35 FT.		FT. DRILLED 607																									
		JARS		13.75 FT.		FT. REAMED																									
		Kelly Down		29.14 FT.		FT. CORED																									
		TOTAL		13081 FT.		CUM. HRS. RUN 59 3/4																									
		WT OF STRING		256 M LBS.		CONDITION 78 1																									
		DRILLER		James Smith																											
		WEATHER CONDITIONS		2 Air																											
		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		133		STANDS DP 12405.60 FT.		Drilling of Core Bit No. 112		13081		30		13111																		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
				SNGLS. DP		FT. TYPE		51 51 51 51																						WEIGHT 11.0	
				D.C. OD		FT. SIZE		8 1/2 8 1/2																						VISC. 98	
				21 6 3/4 OD		621.57 FT.		NOZZ. SIZE 1 1/2 3/4																						W.L.C.C.	
				RMR BODY OD		6.00 FT.		SERIAL No. F0802																						FLTR. CK.	
				STB BODY OD		11.15 FT.		DEPTH IN 13081																						PH	
				2 SUBS 1/2 OD		2.13 FT.		DEPTH OUT 13081																						SD. CONT.	
				1 BIT OR C.B.		5.35 FT.		FT. DRILLED 30																							
				JARS		13.75 FT.		FT. REAMED																							
				Kelly Down		14.91 FT.		FT. CORED																							
				TOTAL		13111.00 FT.		CUM. HRS. RUN 30																							
				WT OF STRING		256 M LBS.		CONDITION 0.8																							
				DRILLER		David Hardie																									
				WEATHER CONDITIONS		MILD																									
		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		134		STANDS DP 12497.32 FT.		Drilling of Core Bit No. 112		13111		64		13175																		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
				SNGLS. DP		FT. TYPE		51 51 51 51																						WEIGHT 11.0	
				D.C. OD		FT. SIZE		8 1/2 8 1/2																						VISC. 80	
				21 6 3/4 OD		621.57 FT.		NOZZ. SIZE 1 1/2 3/4																						W.L.C.C. 76 74 74 72	
				RMR BODY OD		6.00 FT.		SERIAL No. F0802																						FLTR. CK. 332 332 332 332	
				STB BODY OD		11.15 FT.		DEPTH IN 13081																						PH 90 93 9.5 9.5	
				2 SUBS OD		2.13 FT.		DEPTH OUT 13081																						SD. CONT.	
				BIT OR C.B.		5.35 FT.		FT. DRILLED 94																							
				JARS		13.75 FT.		FT. REAMED																							
				Kelly Down		17.73 FT.		FT. CORED																							
				TOTAL		13175 FT.		CUM. HRS. RUN 8 1/2																							
				WT OF STRING		256 M LBS.		CONDITION																							
				DRILLER		C. Hardie																									
				WEATHER CONDITIONS		MILD																									
		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		134		STANDS DP 12497.32 FT.		Drilling of Core Bit No. 112		13111		64		13175																		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
				SNGLS. DP		FT. TYPE		51 51 51 51																						WEIGHT 11.0	
				D.C. OD		FT. SIZE		8 1/2 8 1/2																						VISC. 80	
				21 6 3/4 OD		621.57 FT.		NOZZ. SIZE 1 1/2 3/4																						W.L.C.C. 76 74 74 72	
				RMR BODY OD		6.00 FT.		SERIAL No. F0802																						FLTR. CK. 332 332 332 332	
				STB BODY OD		11.15 FT.		DEPTH IN 13081																						PH 90 93 9.5 9.5	
				2 SUBS OD		2.13 FT.		DEPTH OUT 13081																						SD. CONT.	
				BIT OR C.B.		5.35 FT.		FT. DRILLED 94																							
				JARS		13.75 FT.		FT. REAMED																							
				Kelly Down		17.73 FT.		FT. CORED																							
				TOTAL		13175 FT.		CUM. HRS. RUN 8 1/2																							
				WT OF STRING		256 M LBS.		CONDITION																							
				DRILLER		C. Hardie																									
				WEATHER CONDITIONS		MILD																									
		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour																			

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil Ltd</i>		LOCATION LSD. SEC. TWP. RGE. W.		WELL NAME <i>Union Amoco Ft. McPherson</i>		No. <i>B-25</i>		PROVINCE <i>N.W.T</i>				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2 5</i>	TOOL JOINT <i>2 5</i>	DRILL PIPE GRADE <i>IF E4G</i>	PUMPS No. MANUFACTURER TYPE <i>1. NAT 10-P.130 2. G.O. GXR</i>		CASING & LINER RECORD <i>13 1/2 9 9/16</i>	DEPTH SET FROM TO <i>0 1524 0 2786</i>	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>P. Pagnutti</i>										

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	7 3/4	6 3/4	7 3/4	131	STANDS DP 12203.69	Drilling or Core Bit No. 111	12827	87		12914		44/44	3 3/4		1800	6	106		TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING				1	SNGLS. DP 31.43	TYPE SCHST													WEIGHT	10.9	10.9	11.0	11.0										
RIG MAINTENANCE	1/4	1/4	1/4	21	D.C. 6 3/4 OD 621.57	SIZE 8 1/2													VISC.	70	72	96	94										
RIG REPAIRS				1	RMR BODY OD 6.00	NOZZ. SIZE 3-15													W.L.-C.C.	6.8	6.8	7.2	7.2										
HOLE SURVEYS	1			2	STB BODY OD 11.15	SERIAL No. 885120													FLTR. CK.	7.2													
CONDITIONING MUD				2	SUBS 2.13	DEPTH IN 12474													PH	9.0	9.0	9.0	9.5										
CONDITIONING HOLE				1	BIT OR G.B. 5.35	DEPTH OUT													SD. CONT.														
Reaming & Cleaning To Bottom					JARS 13.75	FT. DRILLED 440													MUD & CHEMICALS ADDED														
WORKING OR STUCK PIPE					Kelly Down 16.93	FT. REAMED													TYPE	AMT.	TYPE	AMT.											
					TOTAL 12914	FT. CORED													Barite 9000														
					WT OF STRING 2461	CUM. HRS. RUN 44 1/2													Ben-F 5 gals														
					DRILLER <i>James Smith</i>	CONDITION 1st													Gel 1200														
					WEATHER CONDITIONS <i>Fair 41F</i>														Colmanite 100														
																			Soda Ash 100														

WIRE LINE RECORD				DAY TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	10	1 3/4		132	STANDS DP 12299.08	Drilling or Core Bit No. 111	12914	74		12988		44	40		1850	6	108		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
				21	D.C. 6 3/4 OD 621.57	SIZE 8 1/2													WEIGHT	11.0	11.0	11.0	11.0
				1	RMR BODY OD 6.00	NOZZ. SIZE 3-15													VISC.	9.3	9.1	8.8	8.4
				2	STB BODY OD 11.15	SERIAL No. 885120													W.L.-C.C.	7.2			
				2	SUBS 2.13	DEPTH IN 12474													FLTR. CK.	7.2			
				1	BIT OR G.B. 5.35	DEPTH OUT													PH	9.5	9.5	9.5	9.5
					JARS 13.75	FT. DRILLED 514													SD. CONT.				
					Kelly Down 28.97	FT. REAMED													MUD & CHEMICALS ADDED				
					TOTAL 12988.00	FT. CORED													TYPE	AMT.	TYPE	AMT.	
					WT OF STRING 256m	CUM. HRS. RUN 51 1/2													Soda Ash 100				
					DRILLER <i>David Hardie</i>	CONDITION 0.8													Ben-F 100				
					WEATHER CONDITIONS <i>Mild</i>														Gel 100				
																			Wt 100				

WIRE LINE RECORD				EVENING TOUR										EVENING TOUR									
REEL No.	No. OF LINES	SIZE	FEET SLIPPED	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
	10	1 3/4		133	STANDS DP 12381.97	Drilling or Core Bit No. 111	12988	87		13075		44	40		1850	6	108		TIME	1st HR.	3rd HR.	5th HR.	7th HR.
				21	D.C. 6 3/4 OD 621.57	SIZE 8 1/2													WEIGHT	10.9	10.9	11.0	11.0
				1	RMR BODY OD 6.00	NOZZ. SIZE 3-15													VISC.	9.2	9.0	8.0	8.4
				2	STB BODY OD 11.15	SERIAL No. 885120													W.L.-C.C.	6.8	6.8	7.2	6.8
				2	SUBS 2.13	DEPTH IN 12474													FLTR. CK.	7.2			
				1	BIT OR G.B. 5.35	DEPTH OUT													PH	9.5	9.5	9.0	9.0
					JARS 13.75	FT. DRILLED 601													SD. CONT.				
					Kelly Down 23.14	FT. REAMED													MUD & CHEMICALS ADDED				
					TOTAL 13075	FT. CORED													TYPE	AMT.	TYPE	AMT.	
					WT OF STRING	CUM. HRS. RUN 59 1/2													Barite 9000				
					DRILLER <i>Steve Shostinsky</i>	CONDITION													Ben-F 5				
					WEATHER CONDITIONS														Gel 100				
																			Soda Ash 100				
																			Time 5 gals				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil L.P.</i>		LOCATION <i>Block 25</i>	SEC. <i>6 1/2</i>	TWP. <i>OD</i>	RGE. <i>IF</i>	W. <i>E & G</i>	WELL NAME <i>Union Amoco 6 Ft. M. Parsons</i>	No. <i>B-25</i>	PROVINCE <i>N.W.T.</i>					
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2 5</i>	TOOL JOINT <i>6 1/2</i>	DRILL PIPE GRADE <i>E & G</i>	PUMPS No. MANUFACTURER TYPE 1. <i>NAT</i> <i>10-P-130</i> 2. <i>G.D.</i> <i>GXR</i> 3.		CASING & LINER RECORD <i>B 3/8 9 3/4</i>	SIZE <i>0 1524</i> <i>0 7786</i>	WT & GR.	DEPTH SET FROM TO <i>0 1524</i> <i>0 7786</i>	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles Smith</i>		CONTRACTOR'S TOOL PUSHER <i>P. P. Pagnett</i>												

TIME DISTRIBUTION - HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Even	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	<i>7 1/4</i>	<i>1 1/4</i>	<i>7 1/4</i>	<i>28</i>	STANDS DP <i>11907.30</i>	Drilling or Core Bit No. <i>111</i>													TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING				<i>21</i>	SNGLS. DP <i>62.67</i>	TYPE <i>SCH55</i>	<i>12606</i>	<i>70</i>		<i>12626</i>									WEIGHT	<i>10.8</i>	<i>10.9</i>	<i>10.9</i>	<i>11.0</i>										
RIG MAINTENANCE	<i>1/4</i>	<i>1/4</i>	<i>1/4</i>		OD <i>62.67</i>	SIZE <i>8 1/2</i>													VISC.	<i>66</i>	<i>78</i>	<i>80</i>	<i>97</i>										
RIG REPAIRS				<i>1</i>	D.C. <i>6 3/4</i>	NOZZ. SIZE <i>3-15</i>													W.L.C.C.	<i>6.8</i>	<i>7.0</i>	<i>7.0</i>	<i>7.3</i>										
HOLE SURVEYS				<i>1</i>	RMR BODY OD <i>6.00</i>	SERIAL No. <i>885120</i>													FLTR. CK.	<i>1/32</i>													
CONDITIONING MUD				<i>2</i>	STB BODY OD <i>11.15</i>	DEPTH IN <i>12474</i>													pH	<i>9.0</i>	<i>9.0</i>	<i>9.0</i>	<i>9.0</i>										
CONDITIONING HOLE				<i>2</i>	SUBS <i>2.13</i>	DEPTH OUT													SD. CONT.														
Reaming & Cleaning To Bottom				<i>1</i>	BIT <i>5.35</i>	FT. DRILLED <i>202</i>													MUD & CHEMICALS ADDED														
WORKING OR STUCK PIPE					<i>JARS</i> <i>13.75</i>	FT. REAMED													TYPE	AMT.	TYPE	AMT.											
FISHING					Kelly Down <i>27.08</i>	FT. CORED													<i>BARITE</i> <i>18000</i>														
LOST CIRCULATION					TOTAL <i>12676</i>	CUM. HRS. RUN <i>21 1/2</i>													<i>GEL</i> <i>3000</i>														
CASING					WT OF STRING <i>246.11</i>	CONDITION <i>IN</i>													<i>BEN. EX</i> <i>10751</i>														
WAITING ON CEMENT					DRILLER <i>James Smith</i>														<i>GILSONITE</i> <i>1000</i>														
HEADING UP & DRILLING OUT					WEATHER CONDITIONS <i>Fair 220</i>														<i>SODASH</i> <i>1000</i>														
MISC. ELLANEOUS																																	
SUB TOTAL																																	
DAYWORK HOURS	<i>8</i>																																
TOTAL HOURS	<i>8</i>	<i>8</i>	<i>8</i>																														

WIRE LINE RECORD		DAY TOUR										EVENING TOUR									
REEL No.		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
No. OF LINES <i>10</i> SIZE <i>1 3/8</i>		<i>129</i>	STANDS DP <i>12018.90</i>	Drilling or Core Bit No. <i>111</i>												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
FEET SLIPPED		<i>2</i>	SNGLS. DP <i>62.19</i>	TYPE <i>SCH55</i>	<i>12676</i>	<i>78</i>		<i>12754</i>								WEIGHT	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>	<i>11.0</i>	
FEET CUT OFF		<i>21</i>	D.C. <i>6 3/4</i>	SIZE <i>8 1/2</i>												VISC.	<i>94</i>	<i>96</i>	<i>92</i>	<i>88</i>	
PRESENT LENGTH <i>4376</i>			OD <i>62.157</i>	NOZZ. SIZE <i>3-15</i>												W.L.C.C.	<i>6.8</i>	<i>6.6</i>			
TON MI. or TRIPS SINCE LAST CUT <i>1521</i>		<i>1</i>	RMR BODY OD <i>6.00</i>	SERIAL No. <i>885120</i>												FLTR. CK.	<i>1/32</i>	<i>1/32</i>			
CUMULATIVE TON MI. or TRIPS <i>14177</i>		<i>2</i>	STB BODY OD <i>11.15</i>	DEPTH IN <i>12474</i>												pH	<i>9.0</i>	<i>9.5</i>	<i>9.5</i>	<i>9.5</i>	
No. OF DAYS FROM SPUD <i>188</i>		<i>3</i>	SUBS <i>2.13</i>	DEPTH OUT												SD. CONT.					
CUMULATIVE ROTATING HRS SINCE LAST ACCDNT		<i>1</i>	BIT <i>5.35</i>	FT. DRILLED <i>280</i>												MUD & CHEMICALS ADDED					
DRILLER ACCDNT. FREE DAYS			<i>JARS</i> <i>13.75</i>	FT. REAMED												TYPE	AMT.	TYPE	AMT.		
MORNING TOUR			Kelly Down <i>12.10</i>	FT. CORED												<i>GILSONITE</i> <i>1000</i>					
DAY TOUR			TOTAL <i>12754.00</i>	CUM. HRS. RUN <i>29 1/4</i>												<i>SODASH</i> <i>1000</i>					
EVENING TOUR			WT OF STRING <i>246.11</i>	CONDITION <i>0.8</i>																	
			DRILLER <i>David Harding</i>																		
			WEATHER CONDITIONS																		

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
Union Oil Ltd		Block 25		62 OD		EF		FC		Union Amoco of McPherson		B-25		NW.T											
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER					
PETER BAWDEN DRILLING SERVICES LTD.		2	2 S	TYPE THD. EF	FC	No. MANUFACTURER TYPE		1. NAT 10-P-130		2. G.D. GXR		13 1/2 954		0 1524											
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
D. B. Bawden		D. B. Bawden																							
TIME DISTRIBUTION—HOURS																									
Morn		Day		Eve																					
DRILLING		7		6 3/4																					
TRIPPING		7 1/2		3/4																					
RIG MAINTENANCE		1/4		1/4																					
RIG REPAIRS																									
HOLE SURVEYS				1																					
CONDITIONING MUD																									
CONDITIONING HOLE																									
Flaming & Chasing To Bottom																									
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISCELLANEOUS		1/2																							
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		8		8																					
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE 1 3/8																					
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH		4376																							
TON MI. OF TRIPS SINCE LAST CUT		1521																							
CUMULATIVE TON MI. OF TRIPS		14177																							
No. OF DAYS FROM SPUD		187																							
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCT.																									
DRILLER ACCT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR																									
Gallons of Diesel Fuel on Hand at 8:00 a.m.																									
REPORT No.		187																							
DATE		FEB 16 / 73																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCAL	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																													
PETER BAWDEN DRILLING SERVICES LTD.		2	25	16	OD	16	16	Union Amoco McPherson B	B-23	N.W.T.																													
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMPS		CASING & LINER RECORD		DEPTH SET		CEMENT USED		OTHER																											
1. N.A.S.		1. 11-P-170		1. 13 3/4		1. 0		1. 1524																															
2. G.D.		2. G.R.		2. 9 3/4		2. 0		2. 8786																															
3.																																							
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD									
Morn		Day		Eve		STANDS DP		1115.54 FT.		110		12258		86		12344				40/44		3/44		1800		6"		108		TIME		1st HR.		3rd HR.		5th HR.		7th HR.	
DRILLING		7 3/4		7 3/4		7 3/4																								WEIGHT		110		109		109		110	
TRIPPING																														VISC.		90		89		87		95	
RIG MAINTENANCE		1/4		1/4		1/4																								W.L.-C.C.		7.8		8.0		8.0		8.3	
RIG REPAIRS																														FLTR. CK.		7.2		8.0		8.0		8.3	
HOLE SURVEYS																														PH		9.5		9.5		9.5		9.0	
CONDITIONING MUD																														SD. CONT.									
CONDITIONING HOLE																																							
Reaming & Cleaning To Bottom																																							
WORKING OR STUCK PIPE																																							
FISHING																																							
LOST CIRCULATION																																							
CASING																																							
WAITING ON CEMENT																																							
HEADING UP & DRILLING OUT																																							
MISC. ELLENEOUS																																							
SUB TOTAL																																							
DAYWORK HOURS																																							
TOTAL HOURS		8		8		8																																	
WIRE LINE RECORD																																							
REEL No.																																							
No. OF LINES		10		SIZE		1 3/4																																	
FEET SLIPPED																																							
FEET CUT OFF																																							
PRESENT LENGTH																																							
TON MI. or TRIPS SINCE LAST CUT																																							
CUMULATIVE TON MI. or TRIPS																																							
No. OF DAYS FROM SPUD		186																																					
CUMULATIVE ROTATING HRS.																																							
DAYS SINCE LAST ACCNT.																																							
DRILLER ACCNT. FREE DAYS																																							
MORNING TOUR																																							
DAY TOUR																																							
EVENING TOUR																																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCALITY		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
Huron Dr. Ltd.		B-25		L-4		OD		L-4		E+G		Huron Assoc. Ft. M. C. Patterson		B-25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.	
PETER BAWDEN DRILLING SERVICES LTD.		2		5.5		TYPE THD IF		E+G		10-P-170 G.R.		13.8 9.58		0 15.24 2986			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD		IF		E+G		10-P-170 G.R.		13.8 9.58		0 15.24 2986			
TIME DISTRIBUTION—HOURS		Morn		Day		Eve											
DRILLING		4 1/2		7 1/4		7 1/4											
TRIPPING		3 1/4															
RIG MAINTENANCE		4		4		4											
RIG REPAIRS																	
HOLE SURVEYS																	
CONDITIONING MUD																	
CONDITIONING HOLE																	
Reaming & Cleaning To Bottom																	
WORKING OR STUCK PIPE																	
FISHING																	
LOST CIRCULATION																	
CASING																	
WAITING ON CEMENT																	
HEADING UP & DRILLING OUT																	
MISC. ELLANEOUS																	
SUB TOTAL																	
DAYWORK HOURS																	
TOTAL HOURS		8		8		8											
WIRE LINE RECORD																	
REEL No.																	
NO. OF LINES		10		SIZE 1 3/8													
FEET SLIPPED																	
FEET CUT OFF																	
PRESENT LENGTH		4376															
TON MI. OF TRIPS SINCE LAST CUT		1001															
CUMULATIVE TON MI. OF TRIPS		13656															
No. OF DAYS FROM SPUD		185															
CUMULATIVE ROTATING HRS.																	
DAYS SINCE LAST ACCDNT.																	
DRILLER ACCDNT. FREE DAYS																	
MORNING TOUR																	
DAY TOUR																	
EVENING TOUR																	

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

185

DATE:

FEB 14/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCAL		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
Union Dr. & T.O.		B-25		L-4		OD		IF		E+G		Union Assoc. Ft. M. C. P. 170		B-25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.	
PETER BAWDEN DRILLING SERVICES LTD.		2		2 5		TYPE THD.		E+G		No. MANUFACTURER TYPE		13 1/2 9 5/8		0 15 3/4		27 1/2	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		PUMP		TYPE OF CEMENT		CEMENT USED		OTHER							
Charles J. Bawden		P. P. Agnew		G.B.		10-P-170		G.A.R.									

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
				No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN			
DRILLING				1		STANDS DP 11372.43		Drilling or Core Bit No. 110		12077		29				12106				35/40		3 1/2		1700		6"		98					
TRIPPING				21		D.C. 6 3/4		SIZE 8 1/2																									
RIG MAINTENANCE				1		RMR BODY OD 6.00		SERIAL No. 331962																									
RIG REPAIRS				2		STB BODY OD 11.15		DEPTH IN 12077																									
HOLE SURVEYS				1		SUBS OD 2.13		DEPTH OUT																									
CONDITIONING MUD				1		BIT R.R. 5.35		FT. DRILLED 29																									
CONDITIONING MUD				1		JARS 13.75		FT. REAMED																									
CONDITIONING MUD				1		Kelly Down 32.57		FT. CORED																									
CONDITIONING MUD				1		TOTAL 1210.6		CUM. HRS. RUN 4 1/2																									
Reaming & Cleaning To Bottom				1		WT OF STRING 2607 LBS.		CONDITION RUN																									
WORKING OR STUCK PIPE				1		DRILLER James J. Smith		WEATHER CONDITIONS FAIR																									
FISHING				1		STANDS DP 11474.23		Drilling or Core Bit No. 110		12106		75				12181				35/40		3 1/2		1700		6"		106		7 3/4			
LOST CIRCULATION				21		D.C. 6 3/4		SIZE 8 1/2																									
CASING				1		RMR BODY OD 6.00		SERIAL No. 331962																									
WAITING ON CEMENT				2		STB BODY OD 11.15		DEPTH IN 12077																									
HEADING UP & DRILLING OUT				2		SUBS OD 2.13		DEPTH OUT																									
MISC. ELANEOUS				1		BIT R.R. 5.35		FT. DRILLED 104																									
SUB TOTAL				1		JARS 13.75		FT. REAMED																									
DAYWORK HOURS				1		Kelly Down 16.72		FT. CORED																									
TOTAL HOURS				8		TOTAL 12121.00		CUM. HRS. RUN 12 1/4																									
WIRE LINE RECORD				1		WT OF STRING 2444 LBS.		CONDITION 0.8																									
REEL No.				1		DRILLER Daniel J. Smith		WEATHER CONDITIONS																									
No. OF LINES				10		STANDS DP 11565.05		Drilling or Core Bit No. 110		12181		77				12258				45/55		3 1/2		1700		6"		106					
FEET SLIPPED				-		D.C. 6 3/4		SIZE 8 1/2																									
FEET CUT OFF				-		RMR BODY OD 6.00		SERIAL No. 331962																									
PRESENT LENGTH				4376		STB BODY OD 11.15		DEPTH IN 12077																									
ION MI. or TRIPS SINCE LAST CUT				1001		SUBS OD 2.13		DEPTH OUT																									
CUMULATIVE TON MI. or TRIPS				13656		BIT R.R. 5.35		FT. DRILLED 181																									
No. OF DAYS FROM SPUD				185		JARS 13.75		FT. REAMED																									
CUMULATIVE ROTATING HRS.				-		Kelly Down 33.50		FT. CORED																									
DAYS SINCE LAST ACCDNT.				-		TOTAL 12258		CUM. HRS. RUN 20																									
DRILLER ACCDNT. FREE DAYS				-		WT OF STRING 244 LBS.		CONDITION																									
MORNING TOUR				-		DRILLER Steve Skatutsky		WEATHER CONDITIONS																									
DAY TOUR				-																													
EVENING TOUR				-																													

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil Co.</i>		LOCATION <i>Block 25</i>		SEC. <i>25</i>		TWP. <i>25</i>		RGE. <i>25</i>		W. <i>25</i>		WELL NAME <i>Union Oil Co. 3rd Dr. 25</i>		No. <i>25</i>		PROVINCE <i>25</i>	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2 5"</i>	TOOL JOINT <i>6 3/4 OD</i>	DRILL PIPE GRADE <i>E+G</i>	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SLT FROM TO		TYPE OF CEMENT	CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>B. P. August</i>		TYPE THD. <i>1 F</i>		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		MORNING TOUR		DAY TOUR		EVENING TOUR		MORNING TOUR		DAY TOUR	
DRILLING		7 1/4		7 1/2		2		121		122		123		124		125	
TRIPPING						5 3/4		21		22		23		24		25	
RIG MAINTENANCE		1 1/4		4				1		2		3		4		5	
RIG REPAIRS								1		2		3		4		5	
HOLE SURVEYS						1 1/4		1		2		3		4		5	
CONDITIONING MUD								1		2		3		4		5	
CONDITIONING HOLE								1		2		3		4		5	
Reaming & Cleaning To Bottom								1		2		3		4		5	
WORKING OR STUCK PIPE								1		2		3		4		5	
FISHING								1		2		3		4		5	
LOST CIRCULATION								1		2		3		4		5	
CASING								1		2		3		4		5	
WAITING ON CEMENT								1		2		3		4		5	
HEADING UP & DRILLING OUT								1		2		3		4		5	
MISC. ELANEOUS								1		2		3		4		5	
SUB TOTAL								1		2		3		4		5	
DAYWORK HOURS								1		2		3		4		5	
TOTAL HOURS		8		8				1		2		3		4		5	
WIRE LINE RECORD								1		2		3		4		5	
REEL No.								1		2		3		4		5	
No. OF LINES								1		2		3		4		5	
SIZE								1		2		3		4		5	
FEET SLIPPED								1		2		3		4		5	
FEET CUT OFF								1		2		3		4		5	
PRESENT LENGTH								1		2		3		4		5	
TON MI. or TRIPS SINCE LAST CUT								1		2		3		4		5	
CUMULATIVE ROTATING HRS.								1		2		3		4		5	
DAYS SINCE LAST ACCDNT.								1		2		3		4		5	
DRILLER ACCDNT. FREE DAYS								1		2		3		4		5	
MORNING TOUR		14						1		2		3		4		5	
DAY TOUR								1		2		3		4		5	
EVENING TOUR								1		2		3		4		5	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
Union Oil Co.		Block 25												Union Amoco Ft. McPherson		B. 25		N.W.T.									
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER			
PETER BAWDEN DRILLING SERVICES LTD.		2		2 5/8"		6 3/4" OD		E + G		No. MANUFACTURER TYPE		1. NSCO 10 P-130		2. G.D. GXR.		13 1/2"		0 1524									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUMPER																									
Charles J. Jones		H. Roseth																									
TIME DISTRIBUTION—HOURS																											
Morn		Day		Eve																							
DRILLING		6 7 1/2 7 3/4																									
TRIPPING		1 3/4																									
RIG MAINTENANCE		1/4 1/4																									
RIG REPAIRS																											
HOLE SURVEYS																											
CONDITIONING MUD																											
CONDITIONING HOLE																											
Reaming & Cleaning To Bottom		1/4																									
WORKING OR STUCK PIPE																											
FISHING																											
LOST CIRCULATION																											
CASING																											
WAITING ON CEMENT																											
HEADING UP & DRILLING OUT																											
MISC. ELLENEOUS																											
SUB TOTAL																											
DAYWORK HOURS																											
TOTAL HOURS		8 8 8																									
WIRE LINE RECORD																											
REEL No.		2																									
No. OF LINES		10 SIZE 1 3/8																									
FEET SLIPPED																											
FEET CUT OFF																											
PRESENT LENGTH		4376																									
TON MI. OF TRIPS SINCE LAST CUT		630																									
CUMULATIVE TON MI. OF TRIPS		13135																									
No. OF DAYS FROM SPUD		182																									
CUMULATIVE ROTATING HRS.		13135																									
DAYS SINCE LAST ACCDNT.																											
DRILLER ACCDNT. FREE DAYS																											
MORNING TOUR		13																									
DAY TOUR																											
EVENING TOUR		144																									
MORNING TOUR																											
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
119		STANDS DP 1110839		Drilling or Core Bit No. 109		11744		51				11795				40		7 1/2		1550		6"		100		6	
2		SNGLS. DP 6139		TYPE 555		11795		68				11863				40		40		1600		6"		104		7 3/4	
21		D.C. 6 3/4 OD 62157		SIZE 8 1/2																							
1		RMR BODY OD 600		SERIAL No. FN863																							
2		STB BODY OD 1115		DEPTH IN 11244																							
2		SUBS 90 OD 213		DEPTH OUT 11244																							
1		BIT DR. 535		FT. DRILLED 119																							
2		JARS 1375		FT. REAMED 119																							
1		Kelly Down 3300		FT. CORED 119																							
TOTAL		11863		CUM. HRS. RUN 13 3/4																							
WT OF STRING		2480		CONDITION RUN																							
DRILLER		P. Paquette																									
WEATHER CONDITIONS																											
DAY TOUR																											
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
119		STANDS DP 1110839		Drilling or Core Bit No. 109		11795		68				11863				40		40		1600		6"		104		7 3/4	
2		SNGLS. DP 6139		TYPE 555		11795		68				11863				40		40		1600		6"		104		7 3/4	
21		D.C. 6 3/4 OD 62157		SIZE 8 1/2																							
1		RMR BODY OD 600		SERIAL No. FN863																							
2		STB BODY OD 1115		DEPTH IN 11244																							
2		SUBS 90 OD 213		DEPTH OUT 11244																							
1		BIT DR. 535		FT. DRILLED 119																							
2		JARS 1375		FT. REAMED 119																							
1		Kelly Down 3300		FT. CORED 119																							
TOTAL		11863		CUM. HRS. RUN 13 3/4																							
WT OF STRING		2480		CONDITION RUN																							
DRILLER		P. Paquette																									
WEATHER CONDITIONS																											
EVENING TOUR																											
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
119		STANDS DP 1110839		Drilling or Core Bit No. 109		11863		64				11927				40		40		2025		6		93		7 3/4	
1		SNGLS. DP 1193073		TYPE 555		11863		64				11927				40		40		2025		6		93		7 3/4	
21		D.C. 6 3/4 OD 62157		SIZE 8 1/2																							
1		RMR BODY OD 600		SERIAL No. FN863																							
2		STB BODY OD 1115		DEPTH IN 11244																							
2		SUBS 90 OD 213		DEPTH OUT 11244																							
1		BIT DR. 535		FT. DRILLED 193																							
2		JARS 1375		FT. REAMED 193																							
1		Kelly Down 3599		FT. CORED 193																							
TOTAL		11927.00		CUM. HRS. RUN 21 1/2																							
WT OF STRING		2480		CONDITION 0.8																							
DRILLER		David Handi																									
WEATHER CONDITIONS																											
MUD RECORD																											
TIME		1st HR.		3rd HR.		5th HR.		7th HR.																			
WEIGHT		108		11.0		11.0		11.0																			
VISC.		80		8.5		9.0		9.0																			
W.L.-C.C.		7.2		7.6		7.4		7.4																			
FLTR. CK.		432		432		432		432																			
PH		9.5		9.5		9.5		9.5																			
SD. CONT.																											
MUD & CHEMICALS ADDED																											
TYPE		AMT.		TYPE		AMT.																					
BARITE		4000						</																			

DAILY TOUR REPORT

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OPERATOR <i>Union Oil Co.</i>		LOCATION <i>Block + 25</i>		SEC. <i>67-10D</i>		TWP. <i>E+G</i>		RGE. <i>W.</i>		WELL NAME <i>Union Amer 3rd Phase</i>		No. <i>B. 25</i>		PROVINCE <i>N. W. J.</i>	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. <i>2</i>	DRILL PIPE STRING No. SIZE <i>2 5/8"</i>	TOOL JOINT <i>6 7/8"</i>	DRILL PIPE GRADE <i>E+G</i>	PUMPS		CASING & LINER RECORD		SIZE <i>13 3/8</i>	WT & GR. <i>938</i>	DEPTH SET FROM TO <i>0 1524</i>	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Charles R. Smith</i>		CONTRACTOR'S TOOL PUSHER <i>H. Roseth</i>		TYPE THD. <i>1 F</i>		E+G		1. MANUFACTURER <i>NSCO</i>		TYPE <i>10 P-130</i>		2. <i>G.O.</i>		<i>G.A.R.</i>	

TIME DISTRIBUTION—HOURS				MORNING TOUR												DAY TOUR												EVENING TOUR											
Morn	Day	Eve		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD																					
																			TIME	1st HR.	3rd HR.	5th HR.	7th HR.																
DRILLING	7 3/4	2 3/4	3/4	117	STANDS DP	108	11586	75		11664		40	40						WEIGHT	10.9	11.0	11.0	11.0																
TRIPPING			6 3/4	2	SNGLS. DP	515													VISC.	86	84	85	93																
RIG MAINTENANCE	1/4	1/4	1/4	21	D.C. OD	8 1/2													W.L.C.C.	10.8	7.0	7.2	7.2																
RIG REPAIRS				1	RMR BODY OD	6.00													FLTR. CK.	732	732	732	732																
HOLE SURVEYS			1/4	2	STB BODY OD	11.15													pH	9.5	9.5	9.5	9.5																
CONDITIONING MUD				2	SUBS OD	2.13													SD. CONT.																				
CONDITIONING HOLE				1	BIT OD	5.35													MUD & CHEMICALS ADDED																				
Reaming & Cleaning To Bottom					JARS	13.75													TYPE	AMT.	TYPE	AMT.																	
WORKING OR STUCK PIPE					Kelly Down	18.31													GILSONITE 100#																				
					TOTAL	11664													BAROID 6000#																				
					WT OF STRING	2350													BENEX 3#																				
					DRILLER	<i>P.H. Smith</i>													SUGAR 200#																				
					WEATHER CONDITIONS																																		

WIRE LINE RECORD				DAY TOUR												EVENING TOUR											
REEL No.	No. OF LINES	SIZE		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD									
2	10	1 3/4		118	STANDS DP	108	11664	73		11737		40	40						TIME	1st HR.	3rd HR.	5th HR.	7th HR.				
				1	SNGLS. DP	515													WEIGHT	11.0	11.0	10.9	10.9				
				21	D.C. OD	8 1/2													VISC.	85	83	80	77				
				1	RMR BODY OD	6.00													W.L.C.C.	7.8	7.6	7.8	7.8				
				2	STB BODY OD	11.15													FLTR. CK.	732							
				2	SUBS OD	2.13													pH	9.5	9.5	9.5	9.5				
				1	BIT OD	5.35													SD. CONT.								
					JARS	13.75													MUD & CHEMICALS ADDED								
					Kelly Down	30.00													TYPE	AMT.	TYPE	AMT.					
					TOTAL	11737													GEL 300#								
					WT OF STRING	2400													BARITE 3000#								
					DRILLER	<i>P. Papadakis</i>													BENEX 2#								
					WEATHER CONDITIONS														GILSONITE 150#								

WIRE LINE RECORD				EVENING TOUR																			
REEL No.	No. OF LINES	SIZE		No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
2	10	1 3/4		118	STANDS DP	108	11737	7		11744		40	40						TIME	1st HR.	3rd HR.	5th HR.	7th HR.
				1	SNGLS. DP	515													WEIGHT	10.9			
				21	D.C. OD	8 1/2													VISC.	73			
				1	RMR BODY OD	6.00													W.L.C.C.	7.4			
				2	STB BODY OD	11.15													FLTR. CK.	732			
				2	SUBS OD	2.13													pH	9.5			
				1	BIT OD	5.35													SD. CONT.				
					JARS	13.75													MUD & CHEMICALS ADDED				
					Kelly Down	36.92													TYPE	AMT.	TYPE	AMT.	
					TOTAL	11744													GEL 800#				
					WT OF STRING	2400													BARITE 4500#				
					DRILLER	<i>David Hendrix</i>													BENEX 8#				
					WEATHER CONDITIONS														GILSONITE 50#				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOC.	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
Union Oil Co.								Black 25		B-25	N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2	2 1/2	6 1/4 OD	E+G	1. MANUFACTURER 11560 10 P-130 2. G.D. GXR		1. 13 1/8 2. 9 1/8	0	15 2 1/2	0	8 7 8 6			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
Charles Schneider		H. Roseth													
TIME DISTRIBUTION—HOURS															
	Morn	Day	Eve												
DRILLING	7 3/4	13 1/4	7 3/4												
TRIPPING															
RIG MAINTENANCE	1 1/4	1 1/4	1 1/4												
RIG REPAIRS															
HOLE SURVEYS	1														
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELANEQUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS	8	8	8												
WIRE LINE RECORD															
REEL No.	2														
No. OF LINES	10	SIZE	1 3/8												
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH	4376														
TON MI. OF TRIPS SINCE LAST CUT	0														
CUMULATIVE TON MI. OF TRIPS	12555														
No. OF DAYS FROM SPUD	180														
CUMULATIVE ROTATING HRS.	393 1/4														
DAYS SINCE LAST ACCNT.															
DRILLER ACCNT. FREE DAYS															
MORNING TOUR	11														
DAY TOUR															
EVENING TOUR	143														
MORNING TOUR															
No.	DRILLING ASSEMBLY	BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
115	STANDS DP 10743.10	Drilling or Core Bit No. 108													TIME 1st HR. 3rd HR. 5th HR. 7th HR.
1	SNGLS. DP 302.8	TYPE 5JS		11373	72		11445								WEIGHT 10.9 11.0 11.0 11.0
	D.C. OD	FT. SIZE 8 1/2													VISC. 97 105 107 102
21	6 3/4 OD 621.5	NOZZ. SIZE 3-15													W.L.C.C. 6.8 7.0 7.4 7.4
1	RMR BODY OD 6.00	SERIAL No. FB977													FLTR. CK. 432 432 432 432
2	STB BODY OD 11.15	DEPTH IN 11177													pH 9.0 9.0 9.0 9.0
2	SUBS 1/2 OD 2.13	DEPTH OUT													SD. CONT.
1	BWDR 15.35	FT. DRILLED 268													MUD & CHEMICALS ADDED
	JARS 13.57	FT. REAMED													TYPE AMT. TYPE AMT.
	Kelly Down 12.02	FT. CORED													GILSONITE 150 #
	TOTAL 11445	CUM. HRS. RUN 29 1/2													BARROD 7100 #
	WT OF STRING 235	CONDITION B.M.													BENEX 4 #
	DRILLER P.H. Dupuis														SODA ASH 100 #
	WEATHER CONDITIONS														
DAY TOUR															
No.	DRILLING ASSEMBLY	BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
116	STANDS DP 10833.19	Drilling or Core Bit No. 108													TIME 1st HR. 3rd HR. 5th HR. 7th HR.
	SNGLS. DP	TYPE 5JS		11445	69		11514								WEIGHT 11.0 11.0 10.8 10.9
	D.C. OD	FT. SIZE 8 1/2													VISC. 95 90 78 90
21	6 3/4 OD 621.5	NOZZ. SIZE 3-15													W.L.C.C. 7.2 7.0 6.6 6.6
1	RMR BODY OD 6.00	SERIAL No. FB977													FLTR. CK. 432
2	STB BODY OD 11.15	DEPTH IN 11177													pH 9.5 9.5 9.5 9.5
2	SUBS 1/2 OD 2.13	DEPTH OUT													SD. CONT.
1	BWDR 13.57	FT. DRILLED 304													MUD & CHEMICALS ADDED
	JARS 53.5	FT. REAMED 337													TYPE AMT. TYPE AMT.
	Kelly Down 22	FT. CORED													GILSONITE 150 #
	TOTAL 11514.98	CUM. HRS. RUN 36 1/4													BARROD 9500 #
	WT OF STRING 235	CONDITION D.R.L.													BEN-EX 5 #
	DRILLER P. Paquette														GEL 800 #
	WEATHER CONDITIONS														H.M.E. 5 #
EVENING TOUR															
No.	DRILLING ASSEMBLY	BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA. R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
116	STANDS DP 10833.19	Drilling or Core Bit No. 108													TIME 1st HR. 3rd HR. 5th HR. 7th HR.
2	SNGLS. DP 61.8	TYPE 5JS		11514	72		11586								WEIGHT 11.0 11.1 11.0 11.0
21	6 3/4 OD 621.5	NOZZ. SIZE 3-15													VISC. 91 92 89 88
1	RMR BODY OD 6.00	SERIAL No. FB977													W.L.C.C. 6.8 6.9 7.0
2	STB BODY OD 11.15	DEPTH IN 11177													FLTR. CK. 3/32 3/32 3/32
2	SUBS 1/2 OD 2.13	DEPTH OUT													pH 9.5 9.5 9.5 9.5
1	BWDR 5.35	FT. DRILLED 409													SD. CONT.
	JARS 13.57	FT. REAMED													MUD & CHEMICALS ADDED
	Kelly Down 31.24	FT. CORED													TYPE AMT. TYPE AMT.
	TOTAL 11586.00	CUM. HRS. RUN 44													GILSONITE 100 #
	WT OF STRING	CONDITION O.B.													
	DRILLER David Hardie														
	WEATHER CONDITIONS COOL & WINDY														

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
Union Oil Co.		Block		25		25		25		25		Union Oil Co. Ft. McPherson		B-25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		DEPTH SET	
PETER BAWDEN DRILLING SERVICES LTD.		2		25"		TYPE THD. 1F		E-G		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE		DEPTH SET		TYPE OF CEMENT	
A. Bawden		H. Bawden		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE		DEPTH SET		TYPE OF CEMENT	
TIME DISTRIBUTION—HOURS		Morn		Day		Eve		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
DRILLING		6 3/4		7 1/4		7 1/4		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
TRIPPING		3 1/4						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
RIG MAINTENANCE		1 1/4		1 1/4		1 1/4		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
RIG REPAIRS								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
HOLE SURVEYS								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
CONDITIONING MUD								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
CONDITIONING HOLE								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
Reaming & Cleaning To Bottom		1 1/4						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
WORKING OR STUCK PIPE								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
FISHING								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
LOST CIRCULATION								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
CASING								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
WAITING ON CEMENT								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
HEADING UP & DRILLING OUT								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
MISC. ELLANEOUS								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
SUB TOTAL								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
DAYWORK HOURS								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
TOTAL HOURS		8		8		8		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
WIRE LINE RECORD								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
REEL No.		2						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
No. OF LINES		10		SIZE		13 1/2		No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
FEET SLIPPED								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
FEET CUT OFF								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
PRESENT LENGTH		4376						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
TON MI. or TRIPS SINCE LAST CUT		0						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
CUMULATIVE TON MI. or TRIPS		12555						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
No. OF DAYS FROM SPUD		179						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
CUMULATIVE ROTATING HRS.		371 1/2						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
DAYS SINCE LAST ACCDNT.								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
DRILLER ACCDNT. FREE DAYS								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
MORNING TOUR		10						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
DAY TOUR								No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	
EVENING TOUR		142						No. MANUFACTURER TYPE		1. NSCO 10-P.130		2. E.O. EXH.		3.		SIZE	

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
113		STANDS DP 10,559.55		Drilling or Core Bit No. 108		11177		56		11233		11233		FORMATION (SHOW CORE RECOVERY)		40		40		1550		6"		106		110		10.9	
2		SNGLS. DP 6160		TYPE 525		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
21		6 3/4 OD 621.57		NOZZ. SIZE 3-15		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		RMR BODY OD 6.00		SERIAL No. FB977		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		STB BODY OD 11.15		DEPTH IN 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		SUBS % OD 2.13		DEPTH OUT 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		BIT BODY 5.35		FT. DRILLED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		JARS 13.57		FT. REAMED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		Kelly Down 11.15		FT. CORED 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
TOTAL		11303		FT. CUM. HRS. RUN 14 1/2		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WT OF STRING		235		LBS. CONDITION DRILL		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
DRILLER		P. Pagnetto		WEATHER CONDITIONS		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WEATHER CONDITIONS		COOL & WINDY		11233		70		11303		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
113		STANDS DP 10,559.55		Drilling or Core Bit No. 108		11177		56		11233		11233		FORMATION (SHOW CORE RECOVERY)		40		40		1550		6"		106		110		10.9	
2		SNGLS. DP 6160		TYPE 525		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
21		6 3/4 OD 621.57		NOZZ. SIZE 3-15		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		RMR BODY OD 6.00		SERIAL No. FB977		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		STB BODY OD 11.15		DEPTH IN 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		SUBS % OD 2.13		DEPTH OUT 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		BIT BODY 5.35		FT. DRILLED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		JARS 13.57		FT. REAMED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		Kelly Down 11.15		FT. CORED 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
TOTAL		11303		FT. CUM. HRS. RUN 14 1/2		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WT OF STRING		235		LBS. CONDITION DRILL		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
DRILLER		P. Pagnetto		WEATHER CONDITIONS		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WEATHER CONDITIONS		COOL & WINDY		11233		70		11303		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
113		STANDS DP 10,559.55		Drilling or Core Bit No. 108		11177		56		11233		11233		FORMATION (SHOW CORE RECOVERY)		40		40		1550		6"		106		110		10.9	
2		SNGLS. DP 6160		TYPE 525		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
21		6 3/4 OD 621.57		NOZZ. SIZE 3-15		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		RMR BODY OD 6.00		SERIAL No. FB977		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		STB BODY OD 11.15		DEPTH IN 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
2		SUBS % OD 2.13		DEPTH OUT 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		BIT BODY 5.35		FT. DRILLED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		JARS 13.57		FT. REAMED 126		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
1		Kelly Down 11.15		FT. CORED 11177		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
TOTAL		11303		FT. CUM. HRS. RUN 14 1/2		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WT OF STRING		235		LBS. CONDITION DRILL		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
DRILLER		P. Pagnetto		WEATHER CONDITIONS		11233		70		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
WEATHER CONDITIONS		COOL & WINDY		11233		70		11303		11303		11303		FORMATION (SHOW CORE RECOVERY)		40		35		1550		6"		106		734		11.0	
No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)</															

DAILY TOUR REPORT										CONSERVATION BOARD COPY																	
OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
Union Oil		Block 25												Union Amara 3rd McPherson		B-25		N.W.T.									
CONTRACTOR				RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BOWDEN DRILLING SERVICES LTD.				2		2 5/8"		6 7/8" OD		IF		EG		1. NISCO 10 P-130		13 3/4		0		1524							
OPERATOR'S REPRESENTATIVE				CONTRACTOR'S TOOL PUSHER																							
TIME DISTRIBUTION—HOURS																											
				Morn		Day		Eve																			
DRILLING				7		4		2																			
TRIPPING				3		4		33																			
RIG MAINTENANCE				1		4		4																			
RIG REPAIRS				1		4																					
HOLE SURVEYS				1		1		4																			
CONDITIONING MUD																											
CONDITIONING HOLE																											
Reaming & Cleaning To Bottom																											
WORKING OR STUCK PIPE																											
FISHING																											
LOST CIRCULATION																											
CASING																											
WAITING ON CEMENT																											
HEADING UP & DRILLING OUT																											
MISC. ELANEIOUS																											
SUB TOTAL																											
DAYWORK HOURS																											
TOTAL HOURS				8		8																					
WIRE LINE RECORD																											
REEL No. 2																											
No. OF LINES 10 SIZE 13/8																											
FEET SLIPPED 46																											
FEET CUT OFF 46																											
PRESENT LENGTH 4376																											
TON MI. OF TRIPS SINCE LAST CUT 0																											
CUMULATIVE TON MI. OF TRIPS 12555																											
No. OF DAYS FROM SPUD 178																											
CUMULATIVE ROTATING HRS. 349 3/4																											
DAYS SINCE LAST ACCDNT.																											
DRILLER ACCDNT. FREE DAYS																											
MORNING TOUR 9																											
DAY TOUR																											
EVENING TOUR 141																											

FORM 01-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 179

DATE: FEB. 8/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
Union Oil Co.		Block 25		6 1/4 OD		IF		F+G		N.S.C.D.		10-P-130		G.D.		G.R.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT. & GR.	
PETER BAWDEN DRILLING SERVICES LTD.		2		25"		TYPE THD		IF		F+G		13 3/8		25 1/2		1524	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		No.		MANUFACTURER		TYPE		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
Charles Schneider		H. P. Smith		1		N.S.C.D.		10-P-130		G.D.		G.R.		1500		6"	
TIME DISTRIBUTION—HOURS		Morn		Day		Eve		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
DRILLING		7 1/2		12 1/2		7 1/2		109		STANDS DP		1025639		107		72	
TRIPPING		1 1/4		1 1/4		1 1/4		21		SNGLS. DP		621.51		8 1/2		10957	
RIG MAINTENANCE		1 1/4		1 1/4		1 1/4		1		D.C.		6.00		8 1/2		11011	
RIG REPAIRS		1 1/4		1 1/4		1 1/4		2		RMR BODY OD		6.00		8 1/2		11011	
HOLE SURVEYS		1		1		1		2		STB BODY OD		11.15		8 1/2		11011	
CONDITIONING MUD								1		SUBS OD		2.13		8 1/2		11011	
CONDITIONING HOLE								1		BIT OR C.B.		5.35		8 1/2		11011	
Reaming & Cleaning To Bottom								1		JARS		13.85		8 1/2		11011	
WORKING OR STUCK PIPE								1		Kelly Down		4.06		8 1/2		11011	
FISHING								1		TOTAL		10957		8 1/2		11011	
LOST CIRCULATION								1		WT OF STRING		240.00		8 1/2		11011	
CASING								1		DRILLER		C.H. Dupuis		8 1/2		11011	
WAITING ON CEMENT								1		WEATHER CONDITIONS		Clear		8 1/2		11011	
HEADING UP & DRILLING OUT								1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
MISC. ELLENCEOUS								1		STANDS DP		1025639		107		72	
SUB TOTAL								21		SNGLS. DP		621.51		8 1/2		10957	
DAYWORK HOURS								1		D.C.		6.00		8 1/2		11011	
TOTAL HOURS								2		RMR BODY OD		6.00		8 1/2		11011	
WIRE LINE RECORD								2		STB BODY OD		11.15		8 1/2		11011	
REEL No.		2						1		SUBS OD		2.13		8 1/2		11011	
No. OF LINES		10		SIZE 3/8				1		BIT OR C.B.		5.35		8 1/2		11011	
FEET SLIPPED								1		Kelly Down		3.60		8 1/2		11011	
FEET CUT OFF								1		TOTAL		11011		8 1/2		11011	
PRESENT LENGTH		4422						1		WT OF STRING		240.00		8 1/2		11011	
TON MI. or TRIPS SINCE LAST CUT		698						1		DRILLER		D. Paquette		8 1/2		11011	
CUMULATIVE TON MI. or TRIPS		12047						1		WEATHER CONDITIONS		Clear		8 1/2		11011	
No. OF DAYS FROM SPUD		178						1		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
CUMULATIVE ROTATING HRS.		33934						21		STANDS DP		1037663		107		11011	
DAYS SINCE LAST ACCT.								1		SNGLS. DP		3062		8 1/2		11011	
DRILLER ACCT. FREE DAYS								2		D.C.		621.51		8 1/2		11011	
MORNING TOUR		87						1		RMR BODY OD		6.00		8 1/2		11011	
DAY TOUR								2		STB BODY OD		11.15		8 1/2		11011	
EVENING TOUR		140						1		SUBS OD		2.13		8 1/2		11011	
								1		BIT OR C.B.		5.35		8 1/2		11011	
								1		JARS		13.85		8 1/2		11011	
								1		Kelly Down		4.76		8 1/2		11011	
								1		TOTAL		11074.00		8 1/2		11011	
								1		WT OF STRING		240m		8 1/2		11011	
								1		DRILLER		David Handie		8 1/2		11011	
								1		WEATHER CONDITIONS		MILD		8 1/2		11011	

FORM D1-157

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 178

DATE: FEB 7/73

CONSERVATION BOARD COPY

FORM DI-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 177

DATE: FEB 6/73

CONSERVATION BOARD COPY

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 176

DATE: FEB 5/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		CONTRACTOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
CLAYTON OIL CO		PETER BAWDEN DRILLING SERVICES LTD.		BLOCK-25		6 3/4		OD		E+G		E+G		13-25		N.W.T.					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		Casing & Liner Record		SIZE		WT & GR.		DEPTH SET	
W.K. Mc Intosh		H. Paruth		2		2 3/4		6 3/4		E+G		1. NSCO 1012-130		2. G-10 G+R							
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE															
DRILLING		8 1/4		44																	
TRIPPING		5 1/2		22																	
RIG MAINTENANCE				1/4																	
RIG REPAIRS				1/2																	
HOLE SURVEYS				1/4																	
CONDITIONING MUD																					
CONDITIONING HOLE																					
Reaming & Cleaning To Bottom				1/2																	
WORKING OR STUCK PIPE																					
FISHING																					
LOST CIRCULATION																					
CASING																					
WAITING ON CEMENT																					
HEADING UP & DRILLING OUT																					
MISC. ELLANEOUS																					
SUB TOTAL																					
DAY WORK HOURS																					
TOTAL HOURS		8		8		8															
WIRE LINE RECORD																					
REEL No.		2																			
No. OF LINES		10		SIZE 1 3/8																	
FEET SLIPPED																					
FEET CUT OFF																					
PRESENT LENGTH		4422																			
TON MI. or TRIPS SINCE LAST CUT		342																			
CUMULATIVE TON MI. or TRIPS		11215																			
No. OF DAYS FROM SPUD		175																			
CUMULATIVE ROTATING HRS.																					
DAYS SINCE LAST ACCDNT.																					
DRILLER ACCDNT. FREE DAYS																					
MORNING TOUR																					
DAY TOUR				5																	
EVENING TOUR																					

FORM DI-1-57

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 175

DATE: FEB 4/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		CONTRACTOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL CO		PETER BAWDEN DRILLING SERVICES LTD.		Block - 25		6 3/4		OD		E + G		E + G		E + G		UNION AMCO LT INCORPORATED		13-25		N.W.T.	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.		TYPE THD.	
W.K. Mc Intosh		A. Pasch		2		2		2		2		2		2		2		2		2	
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE		MORN		DAY		EVE		MORN		DAY		EVE		MORN	
DRILLING		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8		4 7/8	
TRIPPING		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2		4 1/2	
RIG MAINTENANCE		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4		1/4	
RIG REPAIRS		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4		3/4	
HOLE SURVEYS																					
CONDITIONING MUD																					
CONDITIONING HOLE																					
Reaming & Cleaning To Bottom		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2		1/2	
WORKING OR STUCK PIPE																					
FISHING																					
LOST CIRCULATION																					
CASING																					
WAITING ON CEMENT																					
HEADING UP & DRILLING OUT																					
MISC. ELLENEOUS		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4		3 1/4	
SUB TOTAL																					
DAYWORK HOURS																					
TOTAL HOURS		8		8		8		8		8		8		8		8		8		8	
WIRE LINE RECORD																					
REEL No.		2		2		2		2		2		2		2		2		2		2	
No. OF LINES		10		10		10		10		10		10		10		10		10		10	
SIZE		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8		1 3/8	
FEET SLIPPED		46		46		46		46		46		46		46		46		46		46	
FEET CUT OFF		44		44		44		44		44		44		44		44		44		44	
PRESENT LENGTH		4422		4422		4422		4422		4422		4422		4422		4422		4422		4422	
TON MI. or TRIPS SINCE LAST CUT		182		182		182		182		182		182		182		182		182		182	
CUMULATIVE TON MI. or TRIPS		11373		11373		11373		11373		11373		11373		11373		11373		11373		11373	
No. OF DAYS FROM SPUD																					
CUMULATIVE ROTATING HRS.																					
DAYS SINCE LAST ACCNT.																					
DRILLER ACCNT. FREE DAYS																					
MORNING TOUR																					
DAY TOUR		4		4		4		4		4		4		4		4		4		4	
EVENING TOUR																					
FORM D1-1-57																					

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
102		STANDS DP		FT.		Drilling or Core Bit No.		105		10293		27		10320		65		40		1650		6"		100				TIME	
2		SNGLS. DP		FT.		TYPE		X07		10293		27		10320		65		40		1650		6"		100				1st HR.	
21		D.C.		FT.		SIZE		8 1/2		10293		27		10320		65		40		1650		6"		100				3rd HR.	
1		RMR BODY OD		FT.		NOZZ. SIZE		3/16		10293		27		10320		65		40		1650		6"		100				5th HR.	
2		STB BODY OD		FT.		SERIAL No.		SC110		10293		27		10320		65		40		1650		6"		100				7th HR.	
2		SUBS OD		FT.		DEPTH IN		10293		10293		27		10320		65		40		1650		6"		100					
1		BIT BODY OD		FT.		DEPTH OUT		10293		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. DRILLED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. REAMED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. CORED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		CUM. HRS. RUN		4		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		CONDITION		RUN		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		DRILLER		P.H. Dupuis		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		WEATHER CONDITIONS				10293		27		10320		65		40		1650		6"		100					
102		STANDS DP		FT.		Drilling or Core Bit No.		105		10293		27		10320		65		40		1650		6"		100				TIME	
2		SNGLS. DP		FT.		TYPE		X07		10293		27		10320		65		40		1650		6"		100				1st HR.	
21		D.C.		FT.		SIZE		8 1/2		10293		27		10320		65		40		1650		6"		100				3rd HR.	
1		RMR BODY OD		FT.		NOZZ. SIZE		3/16		10293		27		10320		65		40		1650		6"		100				5th HR.	
2		STB BODY OD		FT.		SERIAL No.		SC110		10293		27		10320		65		40		1650		6"		100				7th HR.	
2		SUBS OD		FT.		DEPTH IN		10293		10293		27		10320		65		40		1650		6"		100					
1		BIT BODY OD		FT.		DEPTH OUT		10293		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. DRILLED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. REAMED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		FT. CORED		27		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		CUM. HRS. RUN		4		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		CONDITION		RUN		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		DRILLER		P.H. Dupuis		10293		27		10320		65		40		1650		6"		100					
1		JARS		FT.		WEATHER CONDITIONS				10293		27		10320		65		40		1650		6"		100					

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
102		STANDS DP		FT.		Drilling or Core Bit No.		105		10320		74		10394		65		40		1850		6"		74		6		TIME	
2		SNGLS. DP		FT.		TYPE		X07		10320		74		10394		65		40		1850		6"		74		6		1st HR.	
21		D.C.		FT.		SIZE		8 1/2		10320		74		10394		65		40		1850		6"		74		6		3rd HR.	
1		RMR BODY OD		FT.		NOZZ. SIZE		3/16		10320		74		10394		65		40		1850		6"		74		6		5th HR.	
2		STB BODY OD		FT.		SERIAL No.		SC110		10320		74		10394		65		40		1850		6"		74		6		7th HR.	
2		SUBS OD		FT.		DEPTH IN		10320		10320		74		10394		65		40		1850		6"		74		6			
1		BIT BODY OD		FT.		DEPTH OUT		10320		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		FT. DRILLED		701		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		FT. REAMED		701		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		FT. CORED		701		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		CUM. HRS. RUN		11 3/4		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		CONDITION		DRILL		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		DRILLER		P. Pasquetti		10320		74		10394		65		40		1850		6"		74		6			
1		JARS		FT.		WEATHER CONDITIONS				10320		74		10394		65		40		1850		6"		74		6			

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
102		STANDS DP		FT.		Drilling or Core Bit No.		105		10320		74		10394		65		40		1850		6"		74		6		TIME	
2		SNGLS. DP		FT.		TYPE		X07		10320		74		10394		65		40		1850		6"		74		6		1st HR.	
21		D.C.		FT.		SIZE		8 1/2		10320		74		10394		65		40		1850		6"		74		6		3rd HR.	
1		RMR BODY OD		FT.		NOZZ. SIZE		3/16		10320		74		10394		65		40		1850		6"		74		6		5th HR.	
2		STB BODY OD																											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
Union Oil Co		Block - 25						Union AMCO FT McPHERSON		13-25	N.W.T				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD.	IF	EEG	1. NSCO 10P-130 2. G-D G-XR			9 1/8		8786			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
C. McIntosh		H. Raseth													

TIME DISTRIBUTION—HOURS			MORNING TOUR															MUD RECORD					
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING	7	7 1/4		101	STANDS DP	FT.	Drilling or Core Bit No.	104											WEIGHT				
TRIPPING			3/4	2	SNGLS. DP	952765	TYPE	MH-N		10121	75		10196						VISC.				
RIG MAINTENANCE		1/4		21	D.C.	6 3/4 OD	FT.	NOZZ. SIZE	3/16										W.L.C.C.				
RIG REPAIRS				1	RMR BODY OD	6.00 FT.	SERIAL No.	430408											FLT. CK.				
HOLE SURVEYS			1/4	2	STB BODY OD	11.15 FT.	DEPTH IN	10121											pH				
CONDITIONING MUD				2	SUBS 9 OD	2.13 FT.	DEPTH OUT												SD. CONT.				
CONDITIONING HOLE				1	BIT 10 3/8	5.35 FT.	FT. DRILLED	75											MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom	1/2				Jars	13.83 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
WORKING OR STUCK PIPE					Kelly Down	8.38 FT.	FT. CORED												GILSONITE 150*				
FISHING					TOTAL	10196 FT.	CUM. HRS. RUN	7															
LOST CIRCULATION					WT OF STRING	225.00 LBS.	CONDITION																
CASING					DRILLER	Steve Skatutsky	WEATHER CONDITIONS																

DAY TOUR			DAY TOUR															MUD RECORD					
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WAITING ON CEMENT				102	STANDS DP	FT.	Drilling or Core Bit No.	104											WEIGHT				
HEADING UP & DRILLING OUT				1	SNGLS. DP	958854	TYPE	MH-N		10196	68		10264						VISC.				
MISC. ELANEUS				21	D.C.	6 3/4 OD	FT.	NOZZ. SIZE	3/16										W.L.C.C.				
SUB. TOTAL				1	RMR BODY OD	6.05 FT.	SERIAL No.	430408											FLT. CK.				
DAYWORK HOURS				2	STB BODY OD	11.15 FT.	DEPTH IN	10121											pH				
TOTAL HOURS	8	8		2	SUBS 9 OD	2.13 FT.	DEPTH OUT												SD. CONT.				
WIRE LINE RECORD				1	BIT 10 3/8	5.35 FT.	FT. DRILLED	143											MUD & CHEMICALS ADDED				
REEL No.	2				Jars	13.83 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
No. OF LINES	10	SIZE	1 3/8		Kelly Down	16.19 FT.	FT. CORED												GILSONITE 150*				
FEET SLIPPED					TOTAL	10264 FT.	CUM. HRS. RUN	14 3/4											GEL 300*				
FEET CUT OFF					WT OF STRING	225.00 LBS.	CONDITION	RUN.											BENEX 20*				
PRESENT LENGTH	4433				DRILLER	C.H. Dupuis	WEATHER CONDITIONS												BAROID 600*				
TON MI. OF TRIPS SINCE LAST CUT	731																						
CUMULATIVE TON MI. OF TRIPS	11040																						

EVENING TOUR			EVENING TOUR															MUD RECORD					
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
No. OF DAYS FROM SPUD				102	STANDS DP	FT.	Drilling or Core Bit No.	104											WEIGHT				
DAYS SINCE LAST ACCT.				2	SNGLS. DP	961988	TYPE	MH-N		10264	29		10293						VISC.				
DRILLER/ACCT. FREE DAYS				21	D.C.	6 3/4 OD	FT.	NOZZ. SIZE	3/16										W.L.C.C.				
MORNING TOUR				1	RMR BODY OD	6.00 FT.	SERIAL No.	430408											FLT. CK.				
DAY TOUR				2	STB BODY OD	11.15 FT.	DEPTH IN	10121											pH				
EVENING TOUR				2	SUBS 9 OD	2.13 FT.	DEPTH OUT												SD. CONT.				
				1	BIT 10 3/8	5.35 FT.	FT. DRILLED	172											MUD & CHEMICALS ADDED				
					Jars	13.83 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.	
					Kelly Down	14.00 FT.	FT. CORED												BEN-EX 2 pes				
					TOTAL	10293 FT.	CUM. HRS. RUN	19											GILSONITE 100*				
					WT OF STRING	228.00 LBS.	CONDITION	Hoist 8-8-1															
					DRILLER	P. Pagnone	WEATHER CONDITIONS																

FORM DI-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 173

DATE: FEB 2/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE						
ILLINOIS OIL CO		BLOCK - 25						UNION AMCO FT McPHERSON		13-25-	W. V. T.						
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER		
PETER BAWDEN DRILLING SERVICES LTD.		2	2 5"	TYPE THD. IF		E E C	1. N.S.C.D. 10P-130 2. G.D. C.R.			9 3/4		0 8786					
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER															
W. H. McInnis		H. Roseth															
TIME DISTRIBUTION—HOURS																	
	Morn	Day	Eve														
DRILLING	8	3/4															
TRIPPING		7 1/2															
RIG MAINTENANCE		1/4	1/4														
8 HOURS DRILL			1/4														
HOLE SURVEYS		1/4															
CONDITIONING MUD		1/4															
CONDITIONING HOLE																	
Reaming & Cleaning To Bottom																	
WORKING OR STUCK PIPE																	
FISHING																	
LOST CIRCULATION																	
CASING																	
WAITING ON CEMENT																	
HEADING UP & DRILLING OUT																	
MISC. ELLANEOUS																	
SUB TOTAL																	
DAYWORK HOURS																	
TOTAL HOURS	8	8															
WIRE LINE RECORD																	
REEL No.																	
No. OF LINES	10	SIZE	1 3/8														
FEET SLIPPED																	
FEET CUT OFF																	
PRESENT LENGTH	4468																
TON MI. OF TRIPS SINCE LAST CUT	731																
CUMULATIVE TON MI. OF TRIPS	11400																
No. OF DAYS FROM SPUD	172																
CUMULATIVE ROTATING HRS.																	
DAYS SINCE LAST ACCDNT.																	
DRILLER ACCDNT. FREE DAYS																	
MORNING TOUR																	
DAY TOUR	2																
EVENING TOUR																	
MORNING TOUR																	
DAY TOUR																	
EVENING TOUR																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
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WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
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DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
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2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
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DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
1 STB BODY OD																	
2 SUBS 9 OD																	
BIT 10 1/2																	
JARS																	
Kelly Down																	
TOTAL																	
WT OF STRING																	
DRILLER																	
WEATHER CONDITIONS																	
No. DRILLING ASSEMBLY																	
100 STANDS DP																	
2 SNGLS. DP																	
D.C.																	
21 6 3/4 OD																	
RMR BODY OD																	
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		CONTRACTOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL LTD		PETER BAWDEN DRILLING SERVICES LTD.		BLOCK-25		62		OD		EFC		EFC		EFC		EFC		B-25		N.W.T	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		RIG No.		DRILL PIPE STRING NO. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET	
W. McInch		H. Rasmussen		2		2.5"		TYPE THD. 1F		EFC		1. NSCO 10P-130		2. G.D. 6AR							
TIME DISTRIBUTION—HOURS		MORNING TOUR		DAY TOUR		EVENING TOUR															
DRILLING		1 3/4		1 1/4		1 1/2															
TRIPPING		1 3/4		1 1/4		1 1/2															
RIG MAINTENANCE		1 3/4		1 1/4		1 1/2															
RIG REPAIRS		1 3/4		1 1/4		1 1/2															
HOLE SURVEYS		1 3/4		1 1/4		1 1/2															
CONDITIONING MUD		1 3/4		1 1/4		1 1/2															
CONDITIONING HOLE		1 3/4		1 1/4		1 1/2															
Reaming & Cleaning To Bottom		1 3/4		1 1/4		1 1/2															
WORKING OR STUCK PIPE		1 3/4		1 1/4		1 1/2															
FISHING		1 3/4		1 1/4		1 1/2															
LOST CIRCULATION		1 3/4		1 1/4		1 1/2															
CASING		1 3/4		1 1/4		1 1/2															
WAITING ON CEMENT		1 3/4		1 1/4		1 1/2															
HEADING UP & DRILLING OUT		1 3/4		1 1/4		1 1/2															
MISC. ELANEOUS		1 3/4		1 1/4		1 1/2															
SUB TOTAL		1 3/4		1 1/4		1 1/2															
DAYWORK HOURS		1 3/4		1 1/4		1 1/2															
TOTAL HOURS		1 3/4		1 1/4		1 1/2															
WIRE LINE RECORD		1 3/4		1 1/4		1 1/2															
REEL No.		1 3/4		1 1/4		1 1/2															
No. OF LINES		1 3/4		1 1/4		1 1/2															
FEET SLIPPED		1 3/4		1 1/4		1 1/2															
FEET CUT OFF		1 3/4		1 1/4		1 1/2															
PRESENT LENGTH		1 3/4		1 1/4		1 1/2															
TON MI. or TRIPS SINCE LAST CUT		1 3/4		1 1/4		1 1/2															
CUMULATIVE TON MI. or TRIPS		1 3/4		1 1/4		1 1/2															
No. OF DAYS FROM SPUD		1 3/4		1 1/4		1 1/2															
CUMULATIVE ROTATING HRS.		1 3/4		1 1/4		1 1/2															
DAYS SINCE LAST ACCDNT.		1 3/4		1 1/4		1 1/2															
DRILLER ACCDNT. FREE DAYS		1 3/4		1 1/4		1 1/2															
MORNING TOUR		1 3/4		1 1/4		1 1/2															
DAY TOUR		1 3/4		1 1/4		1 1/2															
EVENING TOUR		1 3/4		1 1/4		1 1/2															

FORM D1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 171

DATE: JAN 31/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE																							
UNION OIL LTD.		BLOCK 25							UNION MACO FORT McPHERSON B-75		B-75	N.W.T.																							
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & CR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																				
PETER BAWDEN DRILLING SERVICES LTD.		2	1 5"	TYPE THD.	IF	E + G	No. MANUFACTURER TYPE																												
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																																	
W.H. McLeod		A. Rose																																	
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD							
MORNING TOUR		STANDS DP		FT.		Drilling or Core Bit No.		102		9779		60		9899		80		30 1/2		125		6		1800		TIME		1st HR.		3rd HR.		5th HR.		7th HR.	
DRILLING		7:30		7:44		18		D.C. 528.18 FT.		SIZE		3 1/2		9779		80		30 1/2		125		6		1800		WEIGHT		11.3		11.2		11.2		11.2	
TRIPPING		2:30		2:34		1		S.D.C. OD 9.62 FT.		NOZZ. SIZE		3 1/2		9779		80		30 1/2		125		6		1800		VISC.		115		105		95		78	
RIG MAINTENANCE		1/4		1/4		1		RMR BODY OD 6.00 FT.		SERIAL No.		2258		9779		80		30 1/2		125		6		1800		W.L.-C.C.		7.2		7.1		6.8			
RIG REPAIRS		1/4		1/4		2		STB BODY OD 11.15 FT.		DEPTH IN		9764		9779		80		30 1/2		125		6		1800		FLTR. CK.		2/32		2/32		2/32			
HOLE SURVEYS		1/4		1/4		2		SUBS OD 2.83 FT.		DEPTH OUT		9764		9779		80		30 1/2		125		6		1800		pH		10.5		10.5		10.5			
CONDITIONING MUD		1/4		1/4		1		3IT OR C.B. 4.00 FT.		FT. DRILLED		75		9779		80		30 1/2		125		6		1800		SD. CONT.									
CONDITIONING HOLE		1/4		1/4		1		JARS 13.83 FT.		FT. REAMED		75		9779		80		30 1/2		125		6		1800											
Reaming & Cleaning To Bottom		1/4		1/4		1		Kelly Down 9.37 FT.		FT. CORED		75		9779		80		30 1/2		125		6		1800											
WORKING OR STUCK PIPE		1/4		1/4		1		TOTAL 9839.00 FT.		CUM. HRS. RUN		104		9779		80		30 1/2		125		6		1800											
		1/4		1/4		1		WT OF STRING 214 M LBS.		CONDITION		O.B.		9779		80		30 1/2		125		6		1800											
		1/4		1/4		1		DRILLER David Hardie						9779		80		30 1/2		125		6		1800											
		1/4		1/4		1		WEATHER CONDITIONS 25° + 12:00 - 5°C 7:00						9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
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		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
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		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											
		1/4		1/4		1								9779		80		30 1/2		125		6		1800											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD		LOCATION 8 BLOCK 25		SEC. TWP. RGE. W.		WELL NAME UNION & MACO FORT McPHERSON		No. B-25		PROVINCE N.W.T				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 1 5	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE TYPE THD. 1 F	PUMPS No. MANUFACTURER TYPE 1. NSCO 10-P-130 2. G.D. GXR		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>												

TIME DISTRIBUTION—HOURS				MORNING TOUR										DAY TOUR										EVENING TOUR									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD															
DRILLING	7 3/4	4 1/2	2 1/2	97	STANDS DP	FT.	Drilling or Core Bit No.	101											TIME	1st HR.	3rd HR.	5th HR.	7th HR.										
TRIPPING		3 3/4		1	SNGLS. DP	9130.14 FT.	TYPE	SSIG		9709	33		9741						WEIGHT	11.4	11.3	11.3	11.3										
RIG MAINTENANCE	1/4	1/4	1/4	18	D.C. 3/4 OD	528.18 FT.	SIZE	8 1/2											VISC.	200	200	200	200										
RIG REPAIRS				1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	3-16											W.L.-C.C.			6.8	6.8										
HOLE SURVEYS		1/4		1	RMR BODY OD	6.00 FT.	SERIAL No.	778724											FLTR. CK.			3/32	3/32										
CONDITIONING MUD				2	STB BODY OD	11.15 FT.	DEPTH IN	9764											PH	10.5		10.0	10.5										
CONDITIONING HOLE				2	SUBS 3/8 OD	2.83 FT.	DEPTH OUT												SD. CONT.														
Reaming & Cleaning To Bottom			1/2		BIT OR C.B.	4.00 FT.	FT. DRILLED	77											MUD & CHEMICALS ADDED														
WORKING OR STUCK PIPE					JARS	13.83 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.											
FISHING					Kelly Down	35.25 FT.	FT. CORED																										
LOST CIRCULATION					TOTAL	9741.00 FT.	CUM. HRS. RUN	1934																									
CASING					WT OF STRING	214 M LBS.	CONDITION	0.9																									
WAITING ON CEMENT					DRILLER	David Hardie																											
HEADING UP & DRILLING OUT					WEATHER CONDITIONS	MILD + WINDY 25° E. 2100																											
MISC. ELLENEOUS					No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD														
SUB TOTAL					97	STANDS DP	FT.	Drilling or Core Bit No.	101											TIME	1st HR.	3rd HR.	5th HR.	7th HR.									
DAYWORK HOURS	8	8	8		2	SNGLS. DP	9160.79 FT.	TYPE	SSIG		9741	23		9764						WEIGHT	11.2	11.2											
TOTAL HOURS					18	D.C. 3/4 OD	528.18 FT.	SIZE	8 1/2											VISC.	200	140											
WIRE LINE RECORD					1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	3/16											W.L.-C.C.	7.0	6.8											
REEL No.					1	RMR BODY OD	6.00 FT.	SERIAL No.	778724											FLTR. CK.	3/32	3/32											
No. OF LINES	10	SIZE	1 3/8		2	STB BODY OD	11.15 FT.	DEPTH IN	9764											PH	10.5	10.8											
FEET SLIPPED	46				2	SUBS 3/8 OD	2.83 FT.	DEPTH OUT	9764											SD. CONT.													
FEET CUT OFF	91				1	BIT OR C.B.	4.00 FT.	FT. DRILLED	100											MUD & CHEMICALS ADDED													
PRESENT LENGTH	4400					JARS	13.83 FT.	FT. REAMED												TYPE	AMT.	TYPE	AMT.										
TON MI. or TRIPS SINCE LAST CUT	160					Kelly Down	27.60 FT.	FT. CORED																									
CUMULATIVE TON MI. or TRIPS	1657					TOTAL	9741.00 FT.	CUM. HRS. RUN	24																								
No. OF DAYS FROM SPUD	169					WT OF STRING	214 M LBS.	CONDITION	63-1																								
CUMULATIVE ROTATING HRS.	192					DRILLER	Steve Shatinsky																										
DAYS SINCE LAST ACCDNT.	250					WEATHER CONDITIONS																											
DRILLER ACCDNT. FREE DAYS						No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD													
MORNING TOUR						97	STANDS DP	919.50 FT.	Drilling or Core Bit No.	102											TIME	1st HR.	3rd HR.	5th HR.	7th HR.								
DAY TOUR						18	SNGLS. DP	528.17 FT.	TYPE	SVH		9764	15		9779						WEIGHT												
EVENING TOUR	234					1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	2 1/16											VISC.												
						1	RMR BODY OD	6.00 FT.	SERIAL No.	3258											W.L.-C.C.												
						2	STB BODY OD	11.15 FT.	DEPTH IN	9764											FLTR. CK.												
						2	SUBS OD	2.83 FT.	DEPTH OUT												PH												
						1	BIT OR C.B.	4.00 FT.	FT. DRILLED	15											SD. CONT.												
						1	JARS	13.83 FT.	FT. REAMED												MUD & CHEMICALS ADDED												
							Kelly Down	11.89 FT.	FT. CORED												TYPE	AMT.	TYPE	AMT.									
							TOTAL	9779 FT.	CUM. HRS. RUN	2 1/2																							
							WT OF STRING	214 M LBS.	CONDITION	0.5																							
							DRILLER	Lynn Lill																									
							WEATHER CONDITIONS	72° S.W. 1/2																									

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 119.

DATE: 1 29 72

CONSERVATION BOARD COPY

FORM-D1-1-67

DATE: Tues. 7-5-72

CONSERVATION BOARD COPY

DATE: 1 27 73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	Fl.	PROVINCE				
UNION OIL & T.O.		BLOCK 25							UNION AMARO FORT McPHERSON	9-25	N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAYDEN DRILLING SERVICES LTD.		2	1 5/8	6 1/2 OD	E	No. MANUFACTURER TYPE		1. NSCO 10-P-130							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				2. G.D. GXR									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
TIME DISTRIBUTION—HOURS		MORN		DAY		EVE									
DRILLING		3 1/2													
TRIPPING		3 1/4													
RIG MAINTENANCE															
RIG REPAIRS															
HOLE SURVEYS		1/4													
CONDITIONING MUD															
CONDITIONING HOLE		1													
Reaming & Cleaning To Bottom															
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8		8											
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10		SIZE 1 3/8											
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH		4559													
TON MI. or TRIPS SINCE LAST CUT		957													
CUMULATIVE TON MI. or TRIPS		9599													
No. OF DAYS FROM SPUD		166													
CUMULATIVE ROTATING HRS.		2474													
DAYS SINCE LAST ACCDNT.		247													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR															
EVENING TOUR		231													

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 11.1

DATE: 1 26 77

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION					WELL NAME		No.		PROVINCE				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
UNION 914 LTD.		2	1 5"	TYPE THD. 4 1/2 IF	E	UNION AMAGO FORT McHERSON		A-25						N.W.T.	
PETER BAWDEN DRILLING SERVICES LTD.															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER					No. MANUFACTURER TYPE								
							1. NSCO 10 P-130								
							2. G.O. GXR								
							3.								
TIME DISTRIBUTION - HOURS															
	Morn	Day	Eve												
DRILLING	6 1/2	6 1/2	6 1/2												
TRIPPING															
RIG MAINTENANCE		1/4	7												
RIG REPAIRS															
HOLE SURVEYS	1	1	1												
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom	1/2														
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISC. ELANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS	8	8	8												
WIRE LINE RECORD															
REEL No.															
No. OF LINES 10 SIZE 1 3/4															
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH 4459															
TON MI. OF TRIPS SINCE LAST CUT 691															
CUMULATIVE TON MI. OF TRIPS 9234															
No. OF DAYS FROM SPUD 16 1/2															
CUMULATIVE ROTATING HRS. 246															
DAYS SINCE LAST ACCDNT. 246															
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR 142															
DAY TOUR 3															
EVENING TOUR 230															
FORM D1-167															

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 1165

DATE: 1 25 73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL LTD.	LOCATION BLOCK 25	SEC. W.	TWP. W.	RGE. W.	WELL NAME UNION AMAGO FT. McPHERSON	No. B-25	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 1 3/8	TOOL JOINT 6 1/2	OD OD	DRILL PIPE GRADE E	PUMPS	
OPERATOR'S REPRESENTATIVE <i>Markus Schneider</i>	CONTRACTOR'S TOOL PUSHER <i>H. Paruth</i>		TYPE THD. 1 F		CASING & LINER RECORD		SIZE WT & GR.
No.		MANUFACTURER		TYPE		DEPTH SET	
1.		MSCO		10-2-130		FROM TO	
2.		G.D.		GXR		TYPE OF CEMENT	
3.						CEMENT USED	
						OTHER	

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			1 1/2
TRIPPING	5 3/4		
RIG MAINTENANCE	3 1/4		1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1 1/2	8 3/4	
WORKING OR STUCK PIPE			

MORNING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
94	STANDS DP	FT.	Drilling or Core Bit No.										
2	SNGLS. DP	8882.68 FT.	TYPE	SVH		9480							
19	D.C. 6 3/4	528.18 FT.	SIZE	8 1/2		9480							
1	SOC. OD	9.62 FT.	NOZZ. SIZE	3/16									
1	RMR BODY OD	6.00 FT.	SERIAL No.	GR288									
2	STB BODY OD	11.15 FT.	DEPTH IN	9480									
2	SUBS% OD	2.83 FT.	DEPTH OUT										
	BIT OR C.B.	4.00 FT.	FT. DRILLED										
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	21.70 FT.	FT. CORED										
	TOTAL	9480.00 FT.	CUM. HRS. RUN										
	WT OF STRING	2200 LBS.	CONDITION	CLEANING									
	DRILLER												
	WEATHER CONDITIONS	COLD											

MUD RECORD					
TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WEIGHT					
VISC.					
W.L.-C.C.					
FLTR. CK.					
PH					
SD. CONT.					
MUD & CHEMICALS ADDED					
TYPE	AMT.	TYPE	AMT.		
BARITE	3500				
BENEX	2#				

FISHING	
LOST CIRCULATION	
CASING	
WAITING ON CEMENTS	
HEADING UP & DRILLING OUT	
MISC. ELLANEOUS	
SUB TOTAL	
DAYWORK HOURS	
TOTAL HOURS	8 88

DAY TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
94	STANDS DP	FT.	Drilling or Core Bit No.	99									
2	SNGLS. DP	8882.68 FT.	TYPE	SVH		9480							
18	D.C. 6 3/4	528.18 FT.	SIZE	8 1/2		9480							
1	SHUT. OD	9.62 FT.	NOZZ. SIZE	3/16									
1	RMR BODY OD	6.00 FT.	SERIAL No.	GR288									
2	STB BODY OD	11.15 FT.	DEPTH IN	9480									
2	SUBS% OD	2.83 FT.	DEPTH OUT										
	BIT OR C.B.	4.00 FT.	FT. DRILLED										
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	21.70 FT.	FT. CORED										
	TOTAL	9480.00 FT.	CUM. HRS. RUN										
	WT OF STRING	2140 LBS.	CONDITION	CLEANING									
	DRILLER	Steve Skotnicky											
	WEATHER CONDITIONS												

MUD RECORD					
TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WEIGHT	10.8	11.2	11.2	11.2	
VISC.	105	95	75	75	
W.L.-C.C.					
FLTR. CK.					
PH	10.5	10.5			
SD. CONT.					
MUD & CHEMICALS ADDED					
TYPE	AMT.	TYPE	AMT.		

WIRE LINE RECORD	
REEL No.	
No. OF LINES	10 SIZE 1 3/8
FEET SLIPPED	45
FEET CUT OFF	
PRESENT LENGTH	4559
TON MI. OF TRIPS SINCE LAST CUT	592
CUMULATIVE TON MI. OF TRIPS	9234
No. OF DAYS FROM SPUD	164
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	245
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	141
EVENING TOUR	229

EVENING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
	STANDS DP	FT.	Drilling or Core Bit No.	99									
	SNGLS. DP	FT.	TYPE	SVH		9480							
18	D.C. OD	528.18 FT.	SIZE	8 1/2		9480							
1	SHUT. OD	9.62 FT.	NOZZ. SIZE	3X16									
1	RMR BODY OD	6.00 FT.	SERIAL No.	GR288									
2	STB BODY OD	11.15 FT.	DEPTH IN	9480									
2	SUBS% OD	2.83 FT.	DEPTH OUT										
	BIT OR C.B.	4.00 FT.	FT. DRILLED	5									
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	26.70 FT.	FT. CORED										
	TOTAL	9480.00 FT.	CUM. HRS. RUN	1 1/2									
	WT OF STRING	2140 LBS.	CONDITION	OB									
	DRILLER	James Smith											
	WEATHER CONDITIONS	Cloudy & Windy											

MUD RECORD					
TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WEIGHT	11.2	11.2	11.2	11.1	
VISC.	76	77	77	71	
W.L.-C.C.	6.4	7.0	7.2	6.8	
FLTR. CK.	2/32	3/32	4/32	5/32	
PH	10.5	10.5	10.5	10.5	
SD. CONT.					
MUD & CHEMICALS ADDED					
TYPE	AMT.	TYPE	AMT.		
WT MNT	1300 LBS				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR Union Oil Ltd	LOCATION Block 25	SEC. 63	TWP. 15	RGE. IF	W. E	WELL NAME Union Amoco FT McPherson	No. 73-25	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 1.5	TOOL JOINT 63	OD 63	DRILL PIPE GRADE E	PUMPS		
OPERATOR'S REPRESENTATIVE Charles Schmides						CONTRACTOR'S TOOL PUSHER H. P. Smith		
Casing & Liner Record						PUMP		
No. 1. NAT TYPE 10P-130						No. 2. QD TYPE GKR		
Casing & Liner Record						PUMP		
No. 1. NAT TYPE 10P-130						No. 2. QD TYPE GKR		

TIME DISTRIBUTION—HOURS

	Morn.	Day	Eve
DRILLING	7	6 3/4	5
TRIPPING			
RIG MAINTENANCE	1/4		
RIG REPAIRS		1/4	
HOLE SURVEYS	3/4	1	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP & DRILLING OUT			
MISC. ELLENEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	

MORNING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINEP. SIZE	S.P.M.	HRS. RUN
94	STANDS DP	FT.	Drilling or Core Bit No.	98									
18	6 3/4 OD	528.18 FT.	SIZE	8 1/2									
1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	3/4 1/8									
2	RMR BODY OD	6.00 FT.	SERIAL No.	LK 314									
2	STB BODY OD	11.15 FT.	DEPTH IN	9396									
2	SUBS % OD	2.83 FT.	DEPTH OUT										
1	BIT SUB	4.00 FT.	FT. DRILLED	41									
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	9.76 FT.	FT. CORED										
	TOTAL	9437 FT.	CUM. HRS. RUN	17									
	WT OF STRING	LBS.	CONDITION	Run									
DRILLER James Stork													
WEATHER CONDITIONS Cold + Windy													

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	11.0	11.1	11.2	11.2
VISC.	61	70	80	78
W.L.C.C.	6.66	8.50	6.0	
FLTR. CK.	3/32			
pH	10.5	10.5	10.5	10.5
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
GEL	1800#			
BEN-EX	6.5%			
BARTIE	9000			
GILSONITE	200#			

DAY TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINEP. SIZE	S.P.M.	HRS. RUN
94	STANDS DP	FT.	Drilling or Core Bit No.	98									
18	6 3/4 OD	528.18 FT.	SIZE	8 1/2									
1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	3/4 1/8									
2	RMR BODY OD	6.00 FT.	SERIAL No.	LK 314									
2	STB BODY OD	11.15 FT.	DEPTH IN	9396									
2	SUBS % OD	2.83 FT.	DEPTH OUT										
1	BIT SUB	4.00 FT.	FT. DRILLED	64									
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	32.76 FT.	FT. CORED										
	TOTAL	9460 FT.	CUM. HRS. RUN	23 3/4									
	WT OF STRING	2200 LBS.	CONDITION	Run									
DRILLER David Hardie													
WEATHER CONDITIONS MILD													

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	11.2	11.2	11.2	11.2
VISC.	78	76	77	76
W.L.C.C.	6.2	7.0		
FLTR. CK.	3/32	3/32		
pH	10.5	10.5	10.5	10.5
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
GILSONITE	200#			
HMF	40#			

WIRE LINE RECORD

REEL No.	
No. OF LINES	10 SIZE 1 3/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	4459
TUN M. or TRFS SINCE LAST CUT	292
CUMULATIVE TON MI. or TRIPS	8934
No. OF DAYS FROM SPUD	163
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCNT.	244
DRILLER ACCNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	140
EVENING TOUR	

EVENING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINEP. SIZE	S.P.M.	HRS. RUN
94	STANDS DP	FT.	Drilling or Core Bit No.	98									
2	SNGLS. DP	FT.	TYPE	XDU									
18	6 3/4 OD	528.18 FT.	SIZE	8 1/2									
1	S.D.C. OD	9.62 FT.	NOZZ. SIZE	3/4 1/8									
1	RMR BODY OD	6.00 FT.	SERIAL No.	LK 314									
2	STB BODY OD	11.15 FT.	DEPTH IN	9396									
2	SUBS % OD	2.83 FT.	DEPTH OUT	9480									
1	BIT SUB	4.00 FT.	FT. DRILLED	84									
	JARS	13.84 FT.	FT. REAMED										
	Kelly Down	21.70 FT.	FT. CORED										
	TOTAL	9480 FT.	CUM. HRS. RUN	29 1/4									
	WT OF STRING	2200 LBS.	CONDITION	Run									
DRILLER Steve Chabinsky													
WEATHER CONDITIONS													

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	11.1	11.1	11.1	11.1
VISC.	74	68	68	
W.L.C.C.	6.8	6.8	6.2	
FLTR. CK.	3/32	3/32	3/32	
pH	10.5	10.5	10.5	
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
BARTIE	6000#			
Borex	4#			
GILSONITE	150#			

CONSERVATION BOARD COPY

FORM D1-1-67

REPORT No. 112

DATE: Jan 22/72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 161

DATE: TAN 22 / 73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE					
Union Oil LTD		Black 25						Union Amoco M'PHERSON		B-25	N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2	15	TYPE THD.	TF	F										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER														
TIME DISTRIBUTION - HOURS																
	Morn	Day	Eve													
DRILLING	3 3/4															
TRIPPING	3 1/2	1														
RIG MAINTENANCE	1/4	1														
RIG REPAIRS																
HOLE SURVEYS	1															
CONDITIONING MUD																
CONDITIONING HOLE																
Drilling & Cleaning To Bottom			8													
WORKING OR STUCK PIPE																
FISHING																
LOST CIRCULATION																
CASING																
WAITING ON CEMENT																
HEADING UP & DRILLING OUT																
MISC. ELLEANOUS																
SUB TOTAL																
DAYWORK HOURS																
TOTAL HOURS	8	8														
WIRE LINE RECORD																
REEL No.																
No. OF LINES	SIZE															
FEET SLIPPED																
FEET CUT OFF																
PRESENT LENGTH																
TON MI. OF TRIPS SINCE LAST CUT																
CUMULATIVE TON MI. OF TRIPS																
No. OF DAYS FROM SPUD																
CUMULATIVE ROTATING HRS.																
DAYS SINCE LAST ACCDNT.	241															
DRILLER ACCDNT. FREE DAYS																
MORNING TOUR																
DAY TOUR																
EVENING TOUR																

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
93	STANDS DP 9756.63 FT.	Drilling or Core Bit No. 96 97												
1	SNGLS. DP FT. TYPE DMJ 1	9342 10	9352											
18	D.C. 6 3/4 OD 528.18 FT. SIZE 8 1/2													
1	S-DC OD 9.62 FT. NOZZ. SIZE 2 1/8													
1	RMR BODY OD 6.00 FT. SERIAL No. 340369													
1	STB BODY OD 11.15 FT. DEPTH IN 9298													
2	SUBS 1/2 OD 2.83 FT. DEPTH OUT													
1	BIT OD 4.00 FT. FT. DRILLED 54													
1	JARS 13.57 FT. FT. REAMED													
1	Kelly Down 2.1.02 FT. FT. CORED													
1	TOTAL 9352.00 FT. CUM. HRS. RUN 252													
1	WT OF STRING 2067 LBS. CONDITION 331													
DRILLER Jorence Soreby														
WEATHER CONDITIONS														
DEVIATION RECORD: 9342 3 3/8 9352 REMARKS: SURVEY, RIG SEUR, DRILL 8 1/2 HOLE, SURVEY @ 9352 dropped, HAST BIT #96 & WORK TIGHT HOLE														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
93	STANDS DP 8756.65 FT.	Drilling or Core Bit No. 97												
1	SNGLS. DP FT. TYPE DMJ	9352	9352											
18	D.C. 6 3/4 OD 528.18 FT. SIZE 8 1/2													
1	S-DC OD 9.62 FT. NOZZ. SIZE 2 1/8													
1	RMR BODY OD 6.00 FT. SERIAL No. 340362													
3	STB BODY OD 11.15 FT. DEPTH IN 9352													
1	SUBS 1/2 OD 2.83 FT. DEPTH OUT													
1	JARS 13.57 FT. FT. DRILLED													
1	Kelly Down 19.75 FT. FT. REAMED													
1	TOTAL 9352.00 FT. CUM. HRS. RUN 0													
1	WT OF STRING 2067 LBS. CONDITION 0													
DRILLER David Hardie														
WEATHER CONDITIONS														
DEVIATION RECORD: 9352 5 3/8 REMARKS: TRIP OUT W/BIT #96, RIG SEA & CHECK BLIND RAMS, RECOVER SURVEY BBL, CHANGE BITS, RUN IN W/DC, LAY DOWN OLD JARS & PICK UP NEW SET, CUT 90' DRIG. & 34" LINE & SLIP 45', TRIP IN W/BIT #97														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
93	STANDS DP 8756.65 FT.	Drilling or Core Bit No. 97												
1	SNGLS. DP FT. TYPE DMJ	9352	9352											
18	D.C. 6 3/4 OD 528.18 FT. SIZE 8 1/2													
1	S-DC OD 9.62 FT. NOZZ. SIZE 2 1/8													
1	RMR BODY OD 6.00 FT. SERIAL No. 83232													
1	STB BODY OD 6.00 FT. DEPTH IN													
2	SUBS OD 11.15 FT. DEPTH OUT													
2	BIT OD 2.83 FT. FT. DRILLED													
1	JARS 13.84 FT. FT. REAMED													
1	Kelly Down 19.75 FT. FT. CORED													
1	TOTAL 9352.00 FT. CUM. HRS. RUN													
1	WT OF STRING 2067 LBS. CONDITION													
DRILLER Steve Skotnitsky														
WEATHER CONDITIONS														
DEVIATION RECORD: 9352 8 REMARKS: REAM OUT BRIDGES FROM 9050, CLEAN OUT HOLE FROM 9240 (HOLE STUFFED)														

DAILY TOUR REPORT

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OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
Union Dr. Ltd.		Bayer 25						Union Amoco M'Parrison	B-25	N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	1.5	TYPE THD.	IF	E	1. NAT 10-P-130 2. Q.D. 6XR								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
P. Paquette															

TIME DISTRIBUTION - HOURS			MORNING TOUR		DAY TOUR		EVENING TOUR	
	Morn	Day						
DRILLING	7	9 6/4						
TRIPPING								
RIG MAINTENANCE		1/4						
RIG REPAIRS								
HOLE SURVEYS		1 1/2						
CONDITIONING MUD								
CONDITIONING HOLE								
Reaming & Cleaning To Bottom	1							
WORKING OR STUCK PIPE								
FISHING								
LOST CIRCULATION								
CASING								
WAITING ON CEMENT								
HEADING UP & DRILLING OUT								
MISC. ELLENEOUS								
SUB TOTAL								
DAYWORK HOURS								
TOTAL HOURS	8							

WIRE LINE RECORD	
REEL No.	
No. OF LINES	10 SIZE 1 1/2
FEET SLIPPED	-
FEET CUT OFF	-
PRESENT LENGTH	4604
TON MI. or TRIPS SINCE LAST CUT	838
CUMULATIVE TON MI. or TRIPS	8366
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	240
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
		STANDS DP	FT.	Drilling or Core Bit No.	TYPE												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
93		STANDS DP	9341.28	Drilling or Core Bit No.	96																	
18		SNGLS. DP	528.18	TYPE	DMJ																	
1		D.C. OD	9.62	SIZE	8 1/2																	
1		S.D.C. OD	9.62	NOZZ. SIZE	3/4 - 1/2																	
1		RMR BODY OD	6.00	SERIAL No.	340369																	
2		STB BODY OD	11.15	DEPTH IN	9298																	
2		SUBS OD	283	DEPTH OUT																		
1		BIT SUB	4.00	FT. DRILLED	12																	
1		JARS	13.57	FT. REAMED																		
1		Kelly Down	41.00	FT. CORED																		
1		TOTAL	9310.500	CUM. HRS. RUN	8 1/2																	
1		WT OF STRING	206	LBS.	CONDITION	RUN																
1		DRILLER	Science & Mealy																			
1		WEATHER CONDITIONS	Clear																			
93		STANDS DP	8724.93	Drilling or Core Bit No.	96																	
18		SNGLS. DP	528.18	TYPE	DMJ																	
1		D.C. OD	9.62	SIZE	8 1/2																	
1		S.D.C. OD	9.62	NOZZ. SIZE	3/4 - 1/8																	
1		RMR BODY OD	6.00	SERIAL No.	340369																	
2		STB BODY OD	11.15	DEPTH IN	9298																	
2		SUBS OD	283	DEPTH OUT																		
1		BIT SUB	4.00	FT. DRILLED	29																	
1		JARS	13.57	FT. REAMED																		
1		Kelly Down	26.72	FT. CORED																		
1		TOTAL	9327.00	CUM. HRS. RUN	15 1/2																	
1		WT OF STRING	206m	LBS.	CONDITION	O.B.																
1		DRILLER	David Hardie																			
1		WEATHER CONDITIONS	- 32° @ 8:00 A.M.																			
93		STANDS DP	8756.63	Drilling or Core Bit No.	96																	
18		SNGLS. DP	528.18	TYPE	DMJ																	
1		D.C. OD	9.62	SIZE	8 1/2																	
1		S.D.C. OD	9.62	NOZZ. SIZE	2 - 1/2																	
1		RMR BODY OD	6.00	SERIAL No.	340369																	
2		STB BODY OD	11.15	DEPTH IN	9298																	
2		SUBS OD	283	DEPTH OUT																		
1		BIT SUB	4.00	FT. DRILLED	44																	
1		JARS	13.57	FT. REAMED																		
1		Kelly Down	10.02	FT. CORED																		
1		TOTAL	9342.00	CUM. HRS. RUN	21 3/4																	
1		WT OF STRING	206.00	LBS.	CONDITION																	
1		DRILLER	Steve Skatunsky																			
1		WEATHER CONDITIONS																				

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
		STANDS DP	FT.	Drilling or Core Bit No.	TYPE												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
93		STANDS DP	8756.63	Drilling or Core Bit No.	96																	
18		SNGLS. DP	528.18	TYPE	DMJ																	
1		D.C. OD	9.62	SIZE	8 1/2																	
1		S.D.C. OD	9.62	NOZZ. SIZE	2 - 1/2																	
1		RMR BODY OD	6.00	SERIAL No.	340369																	
2		STB BODY OD	11.15	DEPTH IN	9298																	
2		SUBS OD	283	DEPTH OUT																		
1		BIT SUB	4.00	FT. DRILLED	44																	
1		JARS	13.57	FT. REAMED																		
1		Kelly Down	10.02	FT. CORED																		
1		TOTAL	9342.00	CUM. HRS. RUN	21 3/4																	
1		WT OF STRING	206.00	LBS.	CONDITION																	
1		DRILLER	Steve Skatunsky																			
1		WEATHER CONDITIONS																				

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD					
		STANDS DP	FT.	Drilling or Core Bit No.	TYPE												TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
93		STANDS DP	8756.63	Drilling or Core Bit No.	96																	
18		SNGLS. DP	528.18	TYPE	DMJ																	
1		D.C. OD	9.62	SIZE	8 1/2																	
1		S.D.C. OD	9.62	NOZZ. SIZE	2 - 1/2																	
1		RMR BODY OD	6.00	SERIAL No.	340369																	
2		STB BODY OD	11.15	DEPTH IN	9298																	
2		SUBS OD	283	DEPTH OUT																		
1		BIT SUB	4.00	FT. DRILLED	44																	
1		JARS	13.57	FT. REAMED																		
1		Kelly Down	10.02	FT. CORED																		
1		TOTAL	9342.00	CUM. HRS. RUN	21 3/4																	
1		WT OF STRING	206.00	LBS.	CONDITION																	
1		DRILLER	Steve Skatunsky																			
1		WEATHER CONDITIONS																				

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
Union Andrew McPherson		Bancroft 25						Union Andrew McPherson		B-25	N.W.T.				
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	1.5	TYPE THD.	IF	E	No. MANUFACTURER TYPE								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER													
P. Papaguetto															
TIME DISTRIBUTION - HOURS															
Morn Day Eve															
DRILLING		6 5 1/2													
TRIPPING		2 1/2 5 1/2													
RIG MAINTENANCE		1/4													
RIG REPAIRS															
HOLE SURVEYS		1/4 1/2													
CONDITIONING MUD															
CONDITIONING HOLE															
Reaming & Cleaning To Bottom		1/2 3/4													
WORKING OR STUCK PIPE															
FISHING															
LOST CIRCULATION															
CASING															
WAITING ON CEMENT															
HEADING UP & DRILLING OUT															
MISCELLANEOUS															
SUB TOTAL															
DAYWORK HOURS															
TOTAL HOURS		8 8 8													
WIRE LINE RECORD															
REEL No.															
No. OF LINES		10 SIZE 1 3/8													
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON MI. or TRIPS SINCE LAST CUT															
CUMULATIVE TON MI. or TRIPS															
No. OF DAYS FROM SPUD		158													
CUMULATIVE ROTATING HRS.															
DAYS SINCE LAST ACCDNT.		239													
DRILLER ACCDNT. FREE DAYS															
MORNING TOUR															
DAY TOUR		135													
EVENING TOUR															

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	95										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340359										
2	STB BODY OD	11.15 FT.	DEPTH IN	9255										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	38										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	9.00 FT.	FT. CORED											
	TOTAL	9277 FT.	CUM. HRS. RUN	18 1/2										
	WT OF STRING	2060 LBS.	CONDITION	Run										
	DRILLER	James Smiley												
	WEATHER CONDITIONS	Cloud												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	95										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340359										
2	STB BODY OD	11.15 FT.	DEPTH IN	9255										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT	9298										
1	BIT OR CB	4.00 FT.	FT. DRILLED	43										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	28.50 FT.	FT. CORED											
	TOTAL	9298.00 FT.	CUM. HRS. RUN	23 1/2										
	WT OF STRING	2060 LBS.	CONDITION	4-3-1										
	DRILLER	David Hardie												
	WEATHER CONDITIONS	-32 @ 8:00 A.M.												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS. RUN	1 1/2										
	WT OF STRING	2060 LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	FT.	Drilling or Core Bit No.	96										
2	SNGLS. DP	8694.15 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	S-DC OD	9.62 FT.	NOZZ. SIZE	2-1/2										
1	RMR 3 POINT BODY	6.00 FT.	SERIAL No.	340369										
2	STB BODY OD	11.15 FT.	DEPTH IN	9298										
2	SUBS 1/2 OD	2.83 FT.	DEPTH OUT											
1	BIT OR CB	4.00 FT.	FT. DRILLED	2										
	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	30.50 FT.	FT. CORED											
	TOTAL	9300 FT.	CUM. HRS											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE																			
Union Oil Ltd		Rock-25							Union Amoco 11th PERSON		B-25	N.W.T.																			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																
PETER BAWDEN DRILLING SERVICES LTD.		2	1.5"	TYPE THD.	IF	E																									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
Charles Schneider		P. Paquette																													
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn		Day		Eve																											
DRILLING		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	
TRIPPING		6		4		1																									
RIG MAINTENANCE		1		4																											
RIG REPAIRS																															
HOLE SURVEYS		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15	
CONDITIONING MUD																															
CONDITIONING HOLE																															
Reaming & Cleaning To Bottom																															
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
CASING																															
WAITING ON CEMENT																															
HEADING UP & DRILLING OUT																															
MISC. ELLANEQUOUS																															
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS		8		8		8																									
WIRE LINE RECORD																															
REEL No.																															
No. OF LINES		10		SIZE		1 1/2																									
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH		4604																													
TON MI. OF TRIPS SINCE LAST CUT		668																													
CUMULATIVE TON MI. OF TRIPS		8216																													
No. OF DAYS FROM SPUD		157																													
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCDNT.		238																													
DRILLER ACCDNT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR																															
EVENING TOUR		880																													
FORM DI-1-67																															

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	8662.52 FT.	Drilling or Core Bit No.	95										
1	SNGLS. DP	8662.52 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	SUBS 9/16 OD	9.62 FT.	NOZZ. SIZE	3/16										
1	RMR POINT BODY	6.00 FT.	SERIAL No.	340359										
2	STB BODY	11.15 FT.	DEPTH IN	9255										
2	SUBS 9/16 OD	2.83 FT.	DEPTH OUT	9255										
1	BIT 9/16	4.00 FT.	FT. DRILLED	9										
1	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	26.13 FT.	FT. CORED											
	TOTAL	9264.00 FT.	CUM. HRS. RUN	5 3/4										
	WT OF STRING	202m	LBS.	0.8										
	DRILLER	David Hardie												
	WEATHER CONDITIONS	COLD												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	8662.52 FT.	Drilling or Core Bit No.	95										
1	SNGLS. DP	8662.52 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	SUBS 9/16 OD	9.62 FT.	NOZZ. SIZE	3/16										
1	RMR POINT BODY	6.00 FT.	SERIAL No.	340359										
2	STB BODY	11.15 FT.	DEPTH IN	9255										
2	SUBS 9/16 OD	2.83 FT.	DEPTH OUT	9255										
1	BIT 9/16	4.00 FT.	FT. DRILLED	9										
1	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	26.13 FT.	FT. CORED											
	TOTAL	9264.00 FT.	CUM. HRS. RUN	5 3/4										
	WT OF STRING	202m	LBS.	0.8										
	DRILLER	David Hardie												
	WEATHER CONDITIONS	COLD												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
92	STANDS DP	8662.52 FT.	Drilling or Core Bit No.	95										
1	SNGLS. DP	8662.52 FT.	TYPE	DMJ										
18	D.C. 6 3/4 OD	528.18 FT.	SIZE	8 1/2										
1	SUBS 9/16 OD	9.62 FT.	NOZZ. SIZE	3/16										
1	RMR POINT BODY	6.00 FT.	SERIAL No.	340359										
2	STB BODY	11.15 FT.	DEPTH IN	9255										
2	SUBS 9/16 OD	2.83 FT.	DEPTH OUT	9255										
1	BIT 9/16	4.00 FT.	FT. DRILLED	22										
1	JARS	13.57 FT.	FT. REAMED											
	Kelly Down	39.13 FT.	FT. CORED											
	TOTAL	9277.00 FT.	CUM. HRS. RUN	13										
	WT OF STRING	206.00	LBS.	0.29										
	DRILLER	Alan St. Anthony												
	WEATHER CONDITIONS	COLD												

A SAFETY MEETING WAS HELD

REPORT No. 157

DATE: JAN 17/73

Gallons of Diesel Fuel on Hand at 8:00 a.m.

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No. 157

DATE: JAN 16 1973

DAILY TOUR REPORT

CONSERVATION BOARD COPY

CONTRACTOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE											
UNION OIL CO		BLOCK-25												UNION AMCO McPHERSON BLOCK-25		N.W.T													
PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER	TYPE THD. 4 1/2 IF		E		No. MANUFACTURER TYPE																						
Charles Schneider		H. Roseth					1. NAT 10P-130																						
2. C-D								3. C-R																					
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
DRILLING		91 STANDS DP 8540.60 FT.		Drilling or Core Bit No. 92		9165		13				9178				64		26		1500		6"		122				TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
TRIPPING		19 SNGLS. DP 31.70 FT.		TYPE 5T-1AC		9165		13				9178				64		26		1500		6"		122				WEIGHT 11.2 11.2	
RIG MAINTENANCE		19 D.C. 537.80 FT.		SIZE 2-1 1/2		9165		13				9178				64		26		1500		6"		122				VISC. 75 65	
RIG REPAIRS		1 RMR BODY 6.00 FT.		SERIAL No. 196311		9165		13				9178				64		26		1500		6"		122				W.L.C.C. 7.8 7.8	
HOLE SURVEYS		2 STB BODY 11.85 FT.		DEPTH IN 9116		9165		13				9178				64		26		1500		6"		122				FLTR. CK. 7/32 7/32	
CONDITIONING MUD		2 SUBS OD 2.93 FT.		DEPTH OUT 9178		9165		13				9178				64		26		1500		6"		122				PH 10.5 10.5	
CONDITIONING HOLE		1 W.B.S. 5.31 FT.		FT. DRILLED 62		9165		13				9178				64		26		1500		6"		122				SD. CONT.	
Reaming & Cleaning To Bottom		1 JARS 13.57 FT.		FT. REAMED		9165		13				9178				64		26		1500		6"		122				MUD & CHEMICALS ADDED	
WORKING OR STUCK PIPE		Kelly Down 29.04 FT.		FT. CORED		9165		13				9178				64		26		1500		6"		122				TYPE AMT. TYPE AMT.	
FISHING		TOTAL 9178.00 FT.		CUM. HRS. RUN 20 3/4		9165		13				9178				64		26		1500		6"		122				BE-CAR 1000	
LOST CIRCULATION		WT OF STRING 199.00 LBS.		CONDITION		9165		13				9178				64		26		1500		6"		122					
CASING		DRILLER Stan Skornitsky		WEATHER CONDITIONS		9165		13				9178				64		26		1500		6"		122					
WAITING ON CEMENT		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
HEADING UP & DRILLING OUT		91 STANDS DP 8540.60 FT.		Drilling or Core Bit No. 93		9178		9				9187				75		25		1500		6"		122 3/4				TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
MISC. ELLANEOUS		18 SNGLS. DP 31.70 FT.		TYPE 544		9178		9				9187				75		25		1500		6"		122 3/4				WEIGHT 11.2 11.2 11.1 11.2	
SUB TOTAL		18 D.C. 528.18 FT.		SIZE 8 1/2		9178		9				9187				75		25		1500		6"		122 3/4				VISC. 66 65 63 67	
DAYWORK HOURS		1 SHURDO 9.62 FT.		NOZZ. SIZE 2-1 1/2		9178		9				9187				75		25		1500		6"		122 3/4				W.L.C.C. 7.2 7.2 21	
TOTAL HOURS 8 1/2		2 RMR BODY 11.15 FT.		SERIAL No. 305540		9178		9				9187				75		25		1500		6"		122 3/4				FLTR. CK. 7/32 7/32	
WIRE LINE RECORD		2 STB BODY 28.3 FT.		DEPTH IN 9178		9178		9				9187				75		25		1500		6"		122 3/4				PH 10.5 10.5 10.5	
REEL No.		1 W.B.S. 5.31 FT.		DEPTH OUT		9178		9				9187				75		25		1500		6"		122 3/4				SD. CONT.	
No. OF LINES 10 SIZE 1 3/4		1 JARS 13.57 FT.		FT. DRILLED 9		9178		9				9187				75		25		1500		6"		122 3/4				MUD & CHEMICALS ADDED	
FEET SLIPPED		Kelly Down 38. FT.		FT. CORED		9178		9				9187				75		25		1500		6"		122 3/4				TYPE AMT. TYPE AMT.	
FEET CUT OFF		TOTAL 9197 FT.		CUM. HRS. RUN 2 1/2		9178		9				9187				75		25		1500		6"		122 3/4					
PRESENT LENGTH 4604		WT OF STRING 205.00 LBS.		CONDITION		9178		9				9187				75		25		1500		6"		122 3/4					
TON MI. OF TRIPS SINCE LAST CUT -		DRILLER C.P. Aquino		WEATHER CONDITIONS		9178		9				9187				75		25		1500		6"		122 3/4					
CUMULATIVE TON MI. OF TRIPS 7528		No. OF DAYS FROM SPUD 156		CUMULATIVE ROTATING HRS.		9178		9				9187				75		25		1500		6"		122 3/4					
DAYS SINCE LAST ACCDNT. 239		DRILLER ACCDNT. FREE DAYS		MORNING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
DRILLER ACCDNT. FREE DAYS		DAY TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
MORNING TOUR		DAY TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
DAY TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR		EVENING TOUR		9178		9				9187				75		25		1500		6"		122 3/4					
EVENING TOUR		EVENING TOUR																											

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OP. OR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE																																																																																																																																																																																																																																																																																																																																							
UNION OIL CO		BLOCK - 25-							UNION AMOCO McPHERSON B-25			N.W.T.																																																																																																																																																																																																																																																																																																																																							
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																																																																																																																																																																																																																																																																																																																																				
PETER BAWDEN DRILLING SERVICES LTD.		2	1.5	TYPE THD. 4 1/2 IF	E	No. MANUFACTURER TYPE																																																																																																																																																																																																																																																																																																																																													
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER				1. NAT 10P-130																																																																																																																																																																																																																																																																																																																																													
		H. Roseth				2. C.D. C.R.																																																																																																																																																																																																																																																																																																																																													
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FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 155

DATE: JAN 14/72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

CONTRACTOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE				
UNION OIL CO		BLOCK 25												UNION AMOCO McPHERSON		B-25		N.W.T.				
PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER	
OPERATOR'S REPRESENTATIVE		2	1.5	TYPE THD. 4 1/2 IF		E	No. MANUFACTURER TYPE															
CONTRACTOR'S TOOL PUSHER																						
TIME DISTRIBUTION—HOURS																						
Morn Day Eve																						
DRILLING		3 3/4 7 3/4 4																				
TRIPPING		3 3																				
RIG MAINTENANCE		1/4 1/4																				
RIG REPAIRS																						
HOLE SURVEYS		1																				
CONDITIONING MUD																						
CONDITIONING HOLE																						
Reaming & Cleaning To Bottom		1																				
WORKING OR STUCK PIPE																						
FISHING																						
LOST CIRCULATION																						
CASING																						
WAITING ON CEMENT																						
HEADING UP & DRILLING OUT																						
MISC. ELLANEOUS																						
SUB TOTAL																						
DAYWORK HOURS																						
TOTAL HOURS		8 3/8																				
WIRE LINE RECORD																						
REEL No.																						
No. OF LINES		10 SIZE 1 3/4																				
FEET SLIPPED																						
FEET CUT OFF																						
PRESENT LENGTH		4694																				
TON MI. or TRIPS SINCE LAST CUT		329																				
CUMULATIVE TON MI. or TRIPS		7179																				
No. OF DAYS FROM SPUD		154																				
CUMULATIVE ROTATING HRS.																						
DAYS SINCE LAST ACCT.		237																				
DRILLER ACCT. FREE DAYS																						
MORNING TOUR																						
DAY TOUR																						
EVENING TOUR		130																				
FORM D1-1-67																						

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 154

DATE: JAN 13/73

DAILY TOUR REPORT

CONSERVATION BOARD COPY

UNION OIL CO		LOCATION		LS.	SEC.	TWP.	RGE.	W.	WELL NAME		No.	PROVINCE				
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
OPERATOR'S REPRESENTATIVE <i>Michael P. Pineda</i>		2	1 5	TYPE THD. 4 1/2 IF	E		No. MANUFACTURER TYPE									
CONTRACTOR'S TOOL PUSHER <i>H. P. Routh</i>																
TIME DISTRIBUTION - HOURS																
MORNING TOUR																
DRILLING																
TRIPPING																
RIG MAINTENANCE																
RIG REPAIRS																
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DAYS SINCE LAST ACCDNT.																
DRILLER ACCDNT. FREE DAYS																
MORNING TOUR																
DAY TOUR																
EVENING TOUR																

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8446.62	Drilling or Core Bit No. 90												
18	D.C. 6 3/4 OD 537.86 FT.	SIZE 8 1/2	9006	33		9039		72	28	1450	6"	122	7 1/2	
2	RMR BODY OD 11.15 FT.	NOZZ. SIZE 2-1/8												
2	STB BODY OD 11.15 FT.	SERIAL No. FA390												
2	SUBS OD 2.83 FT.	DEPTH IN 9006												
1	AT 8.50 5.31 FT.	FT. DRILLED 33												
1	JARS 13.57 FT.	FT. REAMED												
	Kelly Down 21.66 FT.	FT. CORED												
	TOTAL 9039.00 FT.	CUM. HRS. RUN 7												
	WT OF STRING 195.00 LBS.	CONDITION												
	DRILLER <i>Steve Skatinsky</i>													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8446.215	Drilling or Core Bit No. 90												
1	SNGLS. DP 3171 FT.	TYPE X16	9039	24		9063		74	28 1/2	1500	6"	124		
18	D.C. OD 528.18 FT.	SIZE 8 1/2												
1	RMR BODY OD 9.62 FT.	NOZZ. SIZE 2-1/8												
2	STB BODY OD 11.15 FT.	SERIAL No. FA390												
2	SUBS OD 2.83 FT.	DEPTH IN 9006												
1	AT 8.50 5.31 FT.	FT. DRILLED 57												
1	JARS 13.57 FT.	FT. REAMED												
	Kelly Down 14.00 FT.	FT. CORED												
	TOTAL 9063.00 FT.	CUM. HRS. RUN 74												
	WT OF STRING 195.00 LBS.	CONDITION												
	DRILLER <i>J. Paquette</i>													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8446.26	Drilling or Core Bit No. 90												
18	D.C. 6 3/4 OD 528.18 FT.	SIZE 8 1/2	9063	3		9066		70	29 1/2	1500	6"	124	1 1/2	
1	RMR BODY OD 5.63 FT.	NOZZ. SIZE 2-1/8												
1	STB BODY OD 5.63 FT.	SERIAL No. FA390												
2	SUBS OD 2.83 FT.	DEPTH IN 9006												
1	AT 8.50 4.03 FT.	FT. DRILLED 60												
1	JARS 13.57 FT.	FT. REAMED												
	Kelly Down 27.79 FT.	FT. CORED												
	TOTAL 9066.00 FT.	CUM. HRS. RUN 15 1/2												
	WT OF STRING 195.00 LBS.	CONDITION												
	DRILLER <i>David Hardie</i>													
	WEATHER CONDITIONS													

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	DRILLER <i>David Hardie</i>													
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	WT OF STRING 195.00 LBS.	CONDITION												
	DRILLER <i>David Hardie</i>													
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	Kelly Down 27.79 FT.	FT. CORED												
	TOTAL 9066.00 FT.	CUM. HRS. RUN 15 1/2												
	WT OF STRING 195.00 LBS.	CONDITION												
	DRILLER <i>David Hardie</i>													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
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DAILY TOUR REPORT

CONSERVATION BOARD COPY

CONTRACTOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE					
UNION OIL CO		BLOCK 25										UNION AMOCO McPHERSON		13-25		N.W.T.					
PETER SAWDEN DRILLING SERVICES LTD.		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER		
OPERATOR'S REPRESENTATIVE		2	1.5	TYPE THD.	4 1/2 IF	E	1. MAT 10P-130		2. G.D. G.R.												
CONTRACTOR'S TOOL PUSHER		H. Roseth																			
TIME DISTRIBUTION—HOURS																					
Morn Day Eve																					
DRILLING		7 3/4																			
TRIPPING		3 1/4																			
RIG MAINTENANCE		1 1/4																			
RIG REPAIRS																					
HOLE SURVEYS		1 1/2																			
CONDITIONING MUD																					
CONDITIONING HOLE																					
Reaming & Cleaning To Bottom		3 3/4																			
WORKING OR STUCK PIPE																					
FISHING																					
LOST CIRCULATION																					
CASING																					
WAITING ON CEMENT																					
HEADING UP & DRILLING OUT																					
MISC. ELLENEOUS																					
SUB TOTAL																					
DAYWORK HOURS																					
TOTAL HOURS		8 8 8																			
WIRE LINE RECORD																					
REEL No.																					
No. OF LINES		10 SIZE 1 3/8																			
FEET SLIPPED																					
FEET CUT OFF																					
PRESENT LENGTH		4694																			
TON MI. or TRIPS SINCE LAST CUT		666																			
CUMULATIVE TON MI. or TRIPS		6517																			
No. OF DAYS FROM SPUD		152																			
CUMULATIVE ROTATING HRS.																					
DAYS SINCE LAST ACCDNT.		235																			
DRILLER ACCDNT. FREE DAYS																					
MORNING TOUR																					
DAY TOUR																					
EVENING TOUR		128																			

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP	FT.	Drilling or Core Bit No.	89										
1	SNGLS. DP	8877.98	TYPE	5510		8981	16		8997	70	25			
16	D.C. OD	447.93	SIZE	8 1/2										
	OD		NOZZ. SIZE	3-16										
2	RMR BODY OD		SERIAL No.	677002										
2	STB BODY OD	11.15	DEPTH IN	8953										
2	SUBS % OD	2.83	DEPTH OUT											
1	STB OD	5.31	FT. DRILLED	44										
1	JARS	13.57	FT. REAMED											
	Kelly Down	38.23	FT. CORED											
	TOTAL	8997.00	CUM. HRS. RUN	19 1/2										
	WT OF STRING	192M LBS.	CONDITION											
	DRILLER													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP	FT.	Drilling or Core Bit No.	89										
2	SNGLS. DP	8509.61	TYPE	5510		8991	9		9006	68	25/30			
16	D.C. OD	447.93	SIZE	8 1/2										
16	OD		NOZZ. SIZE	3-16										
2	RMR BODY OD	2.83	SERIAL No.	177002										
1	STB OD	5.31	DEPTH IN	8953										
2	SUBS % OD	4.45	DEPTH OUT	9006										
2	STB OD	11.15	FT. DRILLED	53										
1	JARS	13.57	FT. REAMED											
	Kelly Down	16.00	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN	23 1/4										
	WT OF STRING	191000	CONDITION											
	DRILLER													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
89	STANDS DP	FT.	Drilling or Core Bit No.	90										
2	SNGLS. DP	8415.83	TYPE	XIG		9006	-		9006	70/90				
19	D.C. OD	537.86	SIZE	8 1/2										
	OD		NOZZ. SIZE	2-1 1/4										
1	RMR BODY OD	5.31	SERIAL No.	FA390										
2	STB BODY OD	11.15	DEPTH IN	9006										
2	SUBS % OD	2.83	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED											
	JARS	13.57	FT. REAMED											
	Kelly Down	19.45	FT. CORED											
	TOTAL	9006.00	CUM. HRS. RUN											
	WT OF STRING	200M LBS.	CONDITION											
	DRILLER	David Hardie												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	C
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CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 151

DATE: JAN 10 1973

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL Co.		Block 25												UNION AMOLO McPHERSON		B-25		N.W.T.							
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		T 5		6 1/2 OD		E		No. MANUFACTURER TYPE															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER								1. NAT 10P-130															
										2. G.H. GXR															
										3.															
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																			
DRILLING																									
TRIPPING		3 3/4				7																			
RIG MAINTENANCE				1/4																					
RIG REPAIRS																									
HOLE SURVEYS																									
CONDITIONING MUD																									
CONDITIONING HOLE																									
Reaming & Cleaning To Bottom				1 3/4																					
WORKING OR STUCK PIPE																									
FISHING						1																			
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELLENEOUS																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS				8																					
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE		13/8																			
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. or TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. or TRIPS																									
No. OF DAYS FROM SPUD																									
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.				233																					
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR				124																					

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No.

149

DATE: JAN. 1973

CONSERVATION BOARD COPY

FORM D1-1.67

REPORT No. 14R

DATE: JAN 7/73

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 147

DATE: JAN 6, 1973

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE			
UNION Dr Co.		LSD.		SEC.		TWP.		RGE.		W.		UNION Amoco McPHERSON		B-25		N.W.T			
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		DEPTH SET			
PETER BAWDEN DRILLING SERVICES LTD.		2		1.5		6 1/2 OD		E		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		WT & GR		FROM TO			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		4 1/2 IF		E		1. NAT		10P130		G.I.		GXR			
TIME DISTRIBUTION—HOURS		Morn		Day		Eve		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Dilled This Tour			
DRILLING								90		STANDS DP		8445.65		Drilling or Core Bit No.		RR.91			
TRIPPING		4 3/4						2		SNGLS. DP		63.75		TYPE		M44N			
RIG MAINTENANCE								12		D.C.		353.18 FT.		SIZE		8 1/2			
RIG REPAIRS										OD		FT.		NOZZ. SIZE		3-18			
HOLE SURVEYS								2		RMR BODY OD		FT.		SERIAL No.		337041			
CONDITIONING MUD								1		SUBS OD		2.93		DEPTH IN		337041			
CONDITIONING HOLE								1		BIT OR C.B.		4.03		FT. DRILLED					
Heating & Cleaning To Bottom								1		JARS		1957		FT. REAMED					
WORKING OR STUCK PIPE								1		Kelly Down		38		FT. CORED					
FISHING								1		TOTAL		8921.61		CUM. HRS. RUN					
CIRCULATION		8 1/2		4 1/4						WT OF STRING		180,000		CONDITION					
CASING										DRILLER		Don Deuro		WEATHER CONDITIONS					
WAITING ON FISH TOOLS		1 1/2								No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour			
HEADING UP & DRILLING OUT										STANDS DP		FT.		Drilling or Core Bit No.		Dilled This Tour			
HANDS OFF FISH TOOLS		1								SNGLS. DP		FT.		TYPE		Cored or Reamed This Tour			
SUB TOTAL										D.C.		FT.		SIZE		Depth At End of Tour			
DAYWORK HOURS										OD		FT.		NOZZ. SIZE		FORMATION (SHOW CORE RECOVERY)			
TOTAL HOURS		888								RMR BODY OD		FT.		SERIAL No.		ROTA. R.P.M.			
WIRE LINE RECORD										STB BODY OD		FT.		DEPTH IN		WT ON BIT 1000			
REEL No.										SUBS OD		FT.		DEPTH OUT		PUMP PRESS.			
No. OF LINES		10		SIZE		1 3/8				BIT OR C.B.		FT.		FT. DRILLED		LINER SIZE			
FEET SLIPPED										Kelly Down		FT.		FT. REAMED		S.P.M.			
FEET CUT OFF										TOTAL		FT.		CUM. HRS. RUN		HRS. RUN			
PRESENT LENGTH										WT OF STRING		LBS.		CONDITION					
TON MI. OF TRIPS SINCE LAST CUT										DRILLER		Joune Smiley		WEATHER CONDITIONS		MILD			
CUMULATIVE ROTATING HRS.										No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour			
DAYS SINCE LAST ACCDNT.		229								90		STANDS DP		8445.65		Drilling or Core Bit No.			
DRILLER ACCDNT. FREE DAYS										2		SNGLS. DP		63.75		TYPE			
MORNING TOUR										12		D.C.		353.18 FT.		SIZE			
DAY TOUR												OD		FT.		NOZZ. SIZE			
EVENING TOUR										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.		TIME	
										2		SNGLS. DP		63.75		TYPE		1st HR.	
										12		D.C.		353.18 FT.		SIZE		3rd HR.	
												OD		FT.		NOZZ. SIZE		5th HR.	
										2		RMR BODY OD		2.93		SERIAL No.		7th HR.	
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS		S.P.M.			
										No.		DRILLING ASSEMBLY		BIT RECORD		HRS. RUN			
										90		STANDS DP		8445.65		Drilling or Core Bit No.			
										2		SNGLS. DP		63.75		TYPE			
										12		D.C.		353.18 FT.		SIZE			
												OD		FT.		NOZZ. SIZE			
										2		RMR BODY OD		2.93		SERIAL No.			
										STB BODY OD		FT.		DEPTH IN		DEPTH AT END OF TOUR			
										SUBS OD		FT.		DEPTH OUT		FORMATION (SHOW CORE RECOVERY)			
										BIT OR C.B.		FT.		FT. DRILLED		ROTA. R.P.M.			
										Kelly Down		FT.		FT. REAMED		WT ON BIT 1000			
										TOTAL		FT.		CUM. HRS. RUN		PUMP PRESS.			
										WT OF STRING		LBS.		CONDITION		LINER SIZE			
										DRILLER		Joune Smiley		WEATHER CONDITIONS					

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL CO		BLOCK-25		6 1/2		OD		E				UNION AMOCO McPHERSON		B-25		N.W.T	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.	
PETER BAWDEN DRILLING SERVICES LTD.		2		T 5		4 1/2 IF		E		No. MANUFACTURER TYPE		No. MANUFACTURER TYPE		FROM TO		TYPE OF CEMENT	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER								1. NAT 10P/30 GXR		2. GXR					
TIME DISTRIBUTION HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)	
Morn Day Eve		90		STANDS DP 8445.64		Drilling or Core Bit No.		8921									
DRILLING		1		SNGLS. DP 31.85		TYPE											
TRIPPING		12		D.C. 63 1/4		SIZE											
RIG MAINTENANCE				OD		FT. NOZZ. SIZE											
RIG REPAIRS				RMR BODY OD		FT. SERIAL No.											
HOLE SURVEYS				STB BODY OD		FT. DEPTH IN											
CONDITIONING MUD				SUBS OD		FT. DEPTH OUT											
CONDITIONING HOLE				10.65		FT. DRILLED											
Reaming & Cleaning To Bottom				1 BENSIMPLE 29.50		FT. REAMED											
WORKING OR STUCK PIPE				Kelly Down 35		FT. CORED											
FISHING				TOTAL		CUM. HRS. RUN											
LOST CIRCULATION				WT OF STRING 180,000		CONDITION											
CASING				DRILLER Don Newkirk													
WAITING ON CEMENT				WEATHER CONDITIONS													
HEADING UP & DRILLING OUT																	
MISC. ELLANEOUS																	
SUB TOTAL																	
DAYWORK HOURS																	
TOTAL HOURS																	
WIRE LINE RECORD																	
REEL No.																	
No. OF LINES																	
FEET SLIPPED																	
FEET CUT OFF																	
PRESENT LENGTH																	
TON MI. or TRIPS SINCE LAST CUT																	
CUMULATIVE TON MI. or TRIPS																	
No. OF DAYS FROM SPUD																	
CUMULATIVE ROTATING HRS.																	
DAYS SINCE LAST ACCDNT.																	
DRILLER ACCDNT. FREE DAYS																	
MORNING TOUR																	
DAY TOUR																	
EVENING TOUR																	

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
90		STANDS DP 8445.64		Drilling or Core Bit No.		8921																							
1		SNGLS. DP 31.85		TYPE																									
12		D.C. 63 1/4		SIZE																									
		OD		FT. NOZZ. SIZE																									
		RMR BODY OD		FT. SERIAL No.																									
		STB BODY OD		FT. DEPTH IN																									
		SUBS OD		FT. DEPTH OUT																									
		2 B C/O C.B. 283		FT. DRILLED																									
		1 SUB 4.03		FT. REAMED																									
		1 JARS 13.57		FT. CORED																									
		TOTAL 38		CUM. HRS. RUN																									
		WT OF STRING 180,000		CONDITION																									
		DRILLER Don Newkirk																											
		WEATHER CONDITIONS																											

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
90		STANDS DP 8445.64		Drilling or Core Bit No.		8921																							
2		SNGLS. DP 63.75		TYPE																									
12		D.C. 63 1/4		SIZE																									
		OD		FT. NOZZ. SIZE																									
		RMR BODY OD		FT. SERIAL No.																									
		STB BODY OD		FT. DEPTH IN																									
		SUBS OD		FT. DEPTH OUT																									
		2 B C/O C.B. 283		FT. DRILLED																									
		1 SUB 4.03		FT. REAMED																									
		1 JARS 13.57		FT. CORED																									
		TOTAL 38		CUM. HRS. RUN																									
		WT OF STRING 180,000		CONDITION																									
		DRILLER Don Newkirk																											
		WEATHER CONDITIONS																											

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
90		STANDS DP 8445.64		Drilling or Core Bit No.		8921																							
2		SNGLS. DP 63.75		TYPE																									
12		D.C. 63 1/4		SIZE																									
		OD		FT. NOZZ. SIZE																									
		RMR BODY OD		FT. SERIAL No.																									
		STB BODY OD		FT. DEPTH IN																									
		SUBS OD		FT. DEPTH OUT																									
		2 B C/O C.B. 283		FT. DRILLED																									
		1 SUB 4.03		FT. REAMED																									
		1 JARS 13.57		FT. CORED																									
		TOTAL 38		CUM. HRS. RUN																									
		WT OF STRING 180,000		CONDITION																									
		DRILLER Don Newkirk																											
		WEATHER CONDITIONS																											

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
90		STANDS DP 8445.64		Drilling or Core Bit No.		8921																							
2		SNGLS. DP 63.75		TYPE																									
12		D.C. 63 1/4		SIZE																									
		OD		FT. NOZZ. SIZE																									
		RMR BODY OD		FT. SERIAL No.																									
		STB BODY OD		FT. DEPTH IN																									
		SUBS OD		FT. DEPTH OUT																									
		2 B C/O C.B. 283		FT. DRILLED																									
		1 SUB 4.03		FT. REAMED																									
		1 JARS 13.57		FT. CORED																									
		TOTAL 38		CUM. HRS. RUN																									
		WT OF STRING 180,000		CONDITION																									
		DRILLER Don Newkirk																											
		WEATHER CONDITIONS																											

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
90		STANDS DP 8445.64		Drilling or Core Bit No.		8921																							
2		SNGLS. DP 63.75		TYPE																									
12		D.C. 63 1/4		SIZE																									
		OD		FT. NOZZ. SIZE																									
		RMR BODY OD		FT. SERIAL No.																									

CONSERVATION BOARD COPY

FORM D1-1.57

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

DATE:

JAN. 3, 1973

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE									
UNION OIL CO		Block 25										UNION AMOCO McPHERSON		B-25		N.W.T.									
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER				
PETER BAWDEN DRILLING SERVICES LTD.		2	7 5/8	6 1/2	4 1/2 XH	E																			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1.		MANUFACTURER		TYPE																	
Charles Chambers		J. Roseth		NAT		10-P-130		E-XR																	
2.																									
3.																									
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																			
DRILLING																									
TRIPPING		6																							
RIG MAINTENANCE		1/4		1/4		1/4																			
RIG REPAIRS																									
HOLE SURVEYS																									
CONDITIONING MUD																									
CONDITIONING HOLE																									
Reaming & Cleaning To Bottom		13 1/4																							
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELLANEOUS																									
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		888																							
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE 3/8																					
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. or TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. or TRIPS																									
No. OF DAYS FROM SPUD																									
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.		226																							
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
90 STANDS DP 8445.64		Drilling or Core Bit No. 85		8928																					
2 SNGLS. DP 63.75		TYPE XV																							
12 D.C. 63/4 OD 353.18		SIZE 8 1/2																							
1 D.C. 63/4 OD 9.60		NOZZ. SIZE 3-3/8																							
1 RMR BODY OD 5.31		SERIAL No. BK946																							
2 STB BODY OD 11.12		DEPTH IN 8921																							
2 SUBS 400D 2.83		DEPTH OUT																							
BIT OR C.B.		FT. DRILLED																							
1 JARS 13.57		FT. REAMED																							
Kelly Down 18.00		FT. CORED																							
TOTAL 8923		CUM. HRS. RUN																							
WT OF STRING 180,000		CONDITION																							
DRILLER Row Chambers																									
WEATHER CONDITIONS																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
90 STANDS DP 8445.64		Drilling or Core Bit No. 85		8921																					
2 SNGLS. DP 63.75		TYPE XV																							
12 D.C. 63/4 OD 353.18		SIZE 8 1/2																							
1 D.C. 63/4 OD 9.60		NOZZ. SIZE 3-3/8																							
1 RMR BODY OD 5.31		SERIAL No. BK946																							
2 STB BODY OD 11.12		DEPTH IN 8921																							
2 SUBS OD 2.83		DEPTH OUT																							
BIT OR C.B.		FT. DRILLED																							
1 JARS 13.57		FT. REAMED																							
Kelly Down 15.00		FT. CORED																							
TOTAL 89		CUM. HRS. RUN																							
WT OF STRING 180,000		CONDITION																							
DRILLER Don Chambers																									
WEATHER CONDITIONS																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
90 STANDS DP 8445.64		Drilling or Core Bit No. 85		8944																					
2 SNGLS. DP 63.75		TYPE XV																							
12 D.C. 63/4 OD 353.18		SIZE 8 1/2																							
1 D.C. 63/4 OD 9.60		NOZZ. SIZE 3-3/8																							
1 RMR BODY OD 5.31		SERIAL No. RR.																							
2 STB BODY OD 11.12		DEPTH IN																							
2 SUBS OD 2.83		DEPTH OUT																							
BIT OR C.B.		FT. DRILLED																							
1 JARS 13.57		FT. REAMED																							
Kelly Down 15.00		FT. CORED																							
TOTAL 180,000		CUM. HRS. RUN																							
WT OF STRING 180,000		CONDITION																							
DRILLER																									
WEATHER CONDITIONS																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
90 STANDS DP 8445.64		Drilling or Core Bit No. 85		8944																					
2 SNGLS. DP 63.75		TYPE XV																							
12 D.C. 63/4 OD 353.18		SIZE 8 1/2																							
1 D.C. 63/4 OD 9.60		NOZZ. SIZE 3-3/8																							
1 RMR BODY OD 5.31		SERIAL No. RR.																							
2 STB BODY OD 11.12		DEPTH IN																							
2 SUBS OD 2.83		DEPTH OUT																							
BIT OR C.B.		FT. DRILLED																							
1 JARS 13.57		FT. REAMED																							
Kelly Down 15.00		FT. CORED																							
TOTAL 180,000		CUM. HRS. RUN																							
WT OF STRING 180,000		CONDITION																							
DRILLER																									
WEATHER CONDITIONS																									
No. DRILLING ASSEMBLY		No. BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA. R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN	
90 STANDS DP 8445.64		Drilling or Core Bit No. 85		8944																					
2 SNGLS. DP 63.75		TYPE XV																							
12 D.C. 63/4 OD 353.18		SIZE 8 1/2																							
1 D.C. 63/4 OD 9.60		NOZZ. SIZE 3-3/8																							
1 RMR BODY OD 5.31		SERIAL No. RR.																							
2 STB BODY OD 11.12		DEPTH IN																							
2 SUBS OD 2.83		DEPTH OUT																							
BIT OR C.B.		FT. DRILLED																							
1 JARS 13.57		FT. REAMED																							
Kelly Down 15.00		FT. CORED																							

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL CO		Block 25										UNION Amoco McPHERSON		B-25		N.W.T.							
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER		
PETER BAWDEN DRILLING SERVICES LTD.		2	1 5"	TYPE THD 4 1/2 X N		E																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																					
Charles Chambers																							
TIME DISTRIBUTION—HOURS																							
Morn		Day		Eve																			
DRILLING																							
TRIPPING		1 1/4		5 1/2																			
RIG MAINTENANCE		1 1/4		1 1/4																			
RIG REPAIRS																							
HOLE SURVEYS		1																					
CONDITIONING MUD																							
CONDITIONING HOLE																							
Reaming & Cleaning To Bottom		1 1/2		6 1/4																			
WORKING OR STUCK PIPE																							
FIGHTING ASSEMBLY		2 1/2		1																			
LOST CIRCULATION																							
STOP CUTLINE																							
WAITING ON CEMENT																							
HEADING UP & DRILLING OUT																							
MISC. ELLANEOUS																							
SUB TOTAL																							
DAYWORK HOURS																							
TOTAL HOURS		8		8		8																	
WIRE LINE RECORD																							
REEL No.																							
No. OF LINES		10		SIZE		1 3/8																	
FEET SLIPPED																							
FEET CUT OFF																							
PRESENT LENGTH																							
TON MI. or TRIPS SINCE LAST CUT																							
CUMULATIVE TON MI. or TRIPS																							
No. OF DAYS FROM SPUD																							
CUMULATIVE ROTATING HRS.																							
DAYS SINCE LAST ACCDNT.		225																					
DRILLER ACCDNT. FREE DAYS																							
MORNING TOUR																							
DAY TOUR																							
EVENING TOUR																							
FORM DI-1-67																							

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8445.90	Drilling or Core Bit No. 84												
2	SNGLS. DP 63.75 FT.	TYPE M44N												
12	D.C. 349.83 FT.	SIZE 8 1/2												
1	JARS OD 13.57 FT.	NOZZ. SIZE 3-18												
1	RMR BCDY OD 5.31 FT.	SERIAL No. 333325												
1	STB BODY OD 5.52 FT.	DEPTH IN												
2	SUBS OD 2.83 FT.	DEPTH OUT												
	Kelly Down 31.00 FT.	FT. DRILLED												
	TOTAL 8921 FT.	FT. CORED												
	WT OF STRING 182,000 LBS.	CUM. HRS. RUN												
	DRILLER Ron Chambers	CONDITION												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8449.99	Drilling or Core Bit No. 84												
2	SNGLS. DP 63.75 FT.	TYPE M44N												
12	D.C. 349.83 FT.	SIZE 3-18												
1	RMR BCDY OD 13.57 FT.	NOZZ. SIZE 333325												
1	STB BODY OD 5.52 FT.	SERIAL No.												
2	SUBS OD 2.83 FT.	DEPTH IN												
	BIT OR C.B. FT.	FT. DRILLED												
1	3P. REAM 5.31 FT.	FT. REAMED												
	Kelly Down 31.00 FT.	FT. CORED												
	TOTAL 8921 FT.	CUM. HRS. RUN												
	WT OF STRING 182,000 LBS.	CONDITION												
	DRILLER Don Decker													
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
90	STANDS DP 8449.99	Drilling or Core Bit No. 85												
2	SNGLS. DP 63.75 FT.	TYPE XV												
12	D.C. 349.83 FT.	SIZE 8 1/2												
1	JARS OD 9.60 FT.	NOZZ. SIZE 3-18 1/4												
1	RMR BCDY OD 5.31 FT.	SERIAL No. 333325												
2	STB BODY OD 10.83 FT.	DEPTH IN 8921												
2	SUBS OD 2.23 FT.	DEPTH OUT												
	BIT OR C.B. FT.	FT. DRILLED												
1	JARS 13.57 FT.	FT. REAMED												
	Kelly Down 16. FT.	FT. CORED												
	TOTAL 8921 FT.	CUM. HRS. RUN												
	WT OF STRING 180,000 LBS.	CONDITION												
	DRILLER													
	WEATHER CONDITIONS													

REMARKS: The Best of A New Year To You All.
2 1/2 Fm Hoisting Bit #83 STRAP PIPE
1/4 RIG SERV + BOPS.
MAKE UP BUT, PICK UP EASE CIRC STRAP, RUN IN
2 1/2 COLLARS SERIAL ALL JOINTS, PICK UP 6 MORE D.C.S
2 1/4 RUN IN HOLE LAY DOWN 6 SINGLES
1/2 BREAK CIRC + CLEANING TO Btm. 5' Fill
BOARD Tally 8917
STRAP Tally 8921. — 4' DIFF CORR. MADE

REMARKS: RIG SERV. E. BOPS
CIR. E. WORK PIPE CLEAN OUT 5' TO Btm.
WIRE LINE SURVEY
CIR. E. WORK PIPE CLEANING TO Btm.

REMARKS: HOIST OUT
PICK UP IC 3 STAB. + NEW BIT.
1/4 RIG SERV + BLIND RAMS.
SKIP 45' + CUT 90' DRAG LINE
2 1/4 RUN IN HOLE W/ BIT #85.
1/4 BREAK CIRC + CLEANING TO Btm.

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

142

DATE:

JAN 15, 73

CONSERVATION BOARD COPY

FORM D1--1.67

REPORT No. 141

DATE: Dec 21, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL CO	LOCATION Block 25	SEC. 6 1/2	TWP. OD	RGL. E	W. UNION AMOCO McPHERSON	No. B-25	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 7 5/8	TOOL JOINT 6 1/2	OD 4 1/2 X 1 1/2	DRILL PIPE GRADE E	PUMPS	
OPERATOR'S REPRESENTATIVE Charles Schneider		CONTRACTOR'S TOOL PUSHER A. Paulth		CASING & LINER RECORD		SIZE WT & GR.	
1. NAT		2. 6-5		3. 10-P-130		TYPE	
1. 6-5		2. 6-5		3. 6-5		TYPE	

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	83	8917																										
DRILLING				SNGLS. DP	FT.	TYPE	M44N																											
TRIPPING	4 1/2	7 3/4	2 1/2	D.C.	FT.	SIZE	8 1/2																											
RIG MAINTENANCE		1 1/4	1/4	OD	FT.	NOZZ. SIZE	3-18																											
RIG REPAIRS				RMR BODY OD	FT.	SERIAL No.	352797																											
HOLE SURVEYS	1			STB BODY OD	FT.	DEPTH IN																												
CONDITIONING MUD			2 1/4	SUBS OD	FT.	DEPTH OUT																												
CONDITIONING HOLE			2 1/2	BIT OR C.B.	FT.	FT. DRILLED																												
Reaming & Cleaning To Bottom	1/2																																	
WORKING OR STUCK PIPE																																		

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	83																											
DRILLING				SNGLS. DP	FT. <td>TYPE</td> <td>M44N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	TYPE	M44N																											
TRIPPING	1/2			D.C.	FT. <td>SIZE</td> <td>8 1/2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SIZE	8 1/2																											
RIG MAINTENANCE				OD	FT. <td>NOZZ. SIZE</td> <td>3-18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	NOZZ. SIZE	3-18																											
RIG REPAIRS				RMR BODY OD	FT. <td>SERIAL No.</td> <td>352797</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SERIAL No.	352797																											
HOLE SURVEYS				STB BODY OD	FT. <td>DEPTH IN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DEPTH IN																												
CONDITIONING MUD				SUBS OD	FT. <td>DEPTH OUT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DEPTH OUT																												
CONDITIONING HOLE				BIT OR C.B.	FT. <td>FT. DRILLED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	FT. DRILLED																												
Reaming & Cleaning To Bottom	1/2																																	
WORKING OR STUCK PIPE																																		

TIME DISTRIBUTION—HOURS				No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD				
Morn	Day	Eve		STANDS DP	FT.	Drilling or Core Bit No.	83																											
DRILLING				SNGLS. DP	FT. <td>TYPE</td> <td>M44N</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	TYPE	M44N																											
TRIPPING				D.C.	FT. <td>SIZE</td> <td>8 1/2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SIZE	8 1/2																											
RIG MAINTENANCE				OD	FT. <td>NOZZ. SIZE</td> <td>3-18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	NOZZ. SIZE	3-18																											
RIG REPAIRS				RMR BODY OD	FT. <td>SERIAL No.</td> <td>352797</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SERIAL No.	352797																											
HOLE SURVEYS				STB BODY OD	FT. <td>DEPTH IN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DEPTH IN																												
CONDITIONING MUD				SUBS OD	FT. <td>DEPTH OUT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DEPTH OUT																												
CONDITIONING HOLE				BIT OR C.B.	FT. <td>FT. DRILLED</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	FT. DRILLED																												
Reaming & Cleaning To Bottom	1/2																																	
WORKING OR STUCK PIPE																																		

FORM 01-1-57

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 140

DATE: DEC 30, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL CO		LOCATION Block-25		WELL NAME UNION AMOCO McPHERSON 1		PROVINCE B-25		N.W.T.			
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE No. 15	JOINT 6 1/2	OD 4 1/2 X 4	DRILL PIPE GRADE E	PUMPS No. 1 MANUFACTURER NAT TYPE G-D		LINER No. 2 MANUFACTURER D-P TYPE EXR		
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUSHER <i>H. Routh</i>									

TIME DISTRIBUTION—HOURS			MORNING TOUR		DAY TOUR		EVENING TOUR	
	Morn	Day						
DRILLING								
TRIPPING								
RIG MAINTENANCE	1/4	1/4	1/4					
RIG REPAIRS								
HOLE SURVEYS								
CONDITIONING MUD								
CONDITIONING HOLE								
Reaming & Cleaning To Bottom	7 3/4	7 3/4						
WORKING OR STUCK PIPE								
FISHING								
LOST CIRCULATION								
CASING								
WAITING ON CEMENT								
HEADING UP & DRILLING OUT								
MISC. ELLENEOUS								
SUB TOTAL								
DAY WORK HOURS								
TOTAL HOURS	8	8	8					

WIRE LINE RECORD	
REEL No.	No. OF LINES 10 SIZE 1 3/8
FEET SLIPPED	FEET CUT OFF
PRESENT LENGTH	TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS	No. OF DAYS FROM SPUD
DAYS SINCE LAST ACCDNT. 222	DRILLER ACCDNT. FREE DAYS
MORNING TOUR	DAY TOUR
EVENING TOUR	

No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 8634.22	Drilling or Core Bit No.	RR80	8917							1200	6"	140	
2	SINGLS. DP 61.82	TYPE	X3A ONE											
6	D.C. 174.68	SIZE	8 1/2 CONE											
1	6 3/4 OD 9.60 FT.	NOZZ. SIZE	3-18 CONE											
1	RM BODARS 13.57 FT.	SERIAL No.	AL416 CUTOFF											
1	STAB 4.64 FT.	DEPTH IN												
1	SUBS OD	FT. DEPTH OUT												
1	BIT SUB 3.17 FT.	FT. DRILLED												
		FT. REAMED												
	Kelly Down	FT. FT. CORED												
	TOTAL	FT. CUM. HRS. RUN												
	WT OF STRING 174.00 LBS.	CONDITION												
DRILLER		Don Newbo												
WEATHER CONDITIONS														

No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 8634.22	Drilling or Core Bit No.	RR80	8917							1200	6"	140	
2	SINGLS. DP 61.82	TYPE	X3A ONE											
6	D.C. 174.68	SIZE	8 1/2 CONE											
1	6 3/4 OD 9.60 FT.	NOZZ. SIZE	3-18 CONE											
1	RM BODARS 13.57 FT.	SERIAL No.	AL416 CUTOFF											
1	STAB 4.64 FT.	DEPTH IN												
1	SUBS OD	FT. DEPTH OUT												
1	BIT SUB 3.17 FT.	FT. DRILLED												
		FT. REAMED												
	Kelly Down	FT. FT. CORED												
	TOTAL	FT. CUM. HRS. RUN												
	WT OF STRING 174.00 LBS.	CONDITION												
DRILLER		Don Newbo												
WEATHER CONDITIONS														

No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000 ±	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 8634.22	Drilling or Core Bit No.	RR80	8917							1200	6"	140	
2	SINGLS. DP 61.82	TYPE	X3A ONE											
6	D.C. 174.68	SIZE	8 1/2 CONE											
1	6 3/4 OD 9.60 FT.	NOZZ. SIZE	3-18 CONE											
1	RM BODARS 13.57 FT.	SERIAL No.	AL416 CUTOFF											
1	STAB 4.64 FT.	DEPTH IN												
1	SUBS OD	FT. DEPTH OUT												
1	BIT SUB 3.17 FT.	FT. DRILLED												
		FT. REAMED												
	Kelly Down	FT. FT. CORED												
	TOTAL	FT. CUM. HRS. RUN												
	WT OF STRING 174.00 LBS.	CONDITION												
DRILLER		Don Newbo												
WEATHER CONDITIONS														

MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	10.7 10.7 10.7 10.7
VISC.	52 53 54 53
W.L.C.C.	9.6 9.8
FLTR. CK.	3.2 3.3
pH	12.5 12.5 12.5 12.5
SD. CONT.	

MUD & CHEMICALS ADDED	
TYPE	AMT.
GEL	300#
BT CARD	200#

MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	10.7 10.7 10.7 10.7
VISC.	52 53 56
W.L.C.C.	9.9
FLTR. CK.	3.2
pH	12.5
SD. CONT.	

MUD & CHEMICALS ADDED	
TYPE	AMT.
Bonded	53,500#
Bond	26#
Sub	600#

MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	11.2 11.5 11.7 12.0
VISC.	59 62 68 67
W.L.C.C.	12.1
FLTR. CK.	3.2
pH	12.5 12.5 12.5
SD. CONT.	

MUD & CHEMICALS ADDED	
TYPE	AMT.
BARITE	2600#
BENEX	12#

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL CO		LOCATION Block-25		WELL NAME UNION AMOCO McPHERSON 1		No B-25		PROVINCE N.W.T.	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 75	TOOL JOINT 6 1/2	OD 4	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD
OPERATOR'S REPRESENTATIVE <i>Charles Schneider</i>		CONTRACTOR'S TOOL PUMPER <i>H. Pasch</i>		No. 1 NAT		Type E-D		No. 2 D-P-30	
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	
Morn. Day Eve		92		STANDS DP 8634.22		Drilling or Core Bit No.		8917	
DRILLING		2		SNGLS. DP 61.82		TYPE		8917	
TRIPPING		6		634 OD 174.68		SIZE			
RIG MAINTENANCE		1		634 OD 9.60 FT.		NOZZ. SIZE			
RIG REPAIRS		1		RMS 13.57		SERIAL No.			
HOLE SURVEYS		1		STAB 4.64		DEPTH IN			
CONDITIONING MUD		1		SUBS OD		DEPTH OUT			
CONDITIONING HOLE		1		BIT SUB 3.17		FT. DRILLED			
Reaming & Cleaning To Bottom		7 3/4		Kelly Down		FT. CORED			
WORKING OR STUCK PIPE				TOTAL		CUM. HRS. RUN			
FISHING				WT. OF STRING 174.00		CONDITION			
LOST CIRCULATION				DRILLER		WEATHER CONDITIONS			
CASING				No.		DRILLING ASSEMBLY		BIT RECORD	
WAITING ON CEMENT				92		STANDS DP 8634.22		Drilling or Core Bit No. RR80	
HEADING UP & DRILLING OUT				2		SNGLS. DP 61.82		TYPE X3A ONE	
MISC. ELLENEOUS				6		634 OD 174.68		SIZE 8 1/2 CONE	
SUB TOTAL				1		634 OD 9.60 FT.		NOZZ. SIZE 3-18 SHANK	
DAYWORK HOURS				1		RMS 13.57		SERIAL No. AL416 CUTOFF	
TOTAL HOURS 888				1		STAB 4.64		DEPTH IN	
WIRE LINE RECORD				1		SUBS OD		DEPTH OUT	
REEL No.				1		BIT SUB 3.17		FT. DRILLED	
No. OF LINES 10 SIZE 1 3/8				1		Kelly Down		FT. CORED	
FEET SLIPPED				1		TOTAL		CUM. HRS. RUN	
FEET CUT OFF				1		WT. OF STRING 174.00		CONDITION	
PRESENT LENGTH				1		DRILLER		WEATHER CONDITIONS	
TON MI. or TRIPS SINCE LAST CUT				1		No.		DRILLING ASSEMBLY	
CUMULATIVE TON MI. or TRIPS				1		STANDS DP 8634.22		Drilling or Core Bit No. RR80	
No. OF DAYS FROM SPUD				1		2		SNGLS. DP 61.82	
CUMULATIVE ROTATING HRS.				1		6		634 OD 174.68	
DAYS SINCE LAST ACCDNT. 222				1		1		634 OD 9.60 FT.	
DRILLER ACCDNT. FREE DAYS				1		1		RMS 13.57	
MORNING TOUR				1		1		STAB 4.64	
DAY TOUR				1		1		SUBS OD	
EVENING TOUR				1		1		BIT SUB 3.17	
				1		1		Kelly Down	
				1		1		TOTAL	
				1		1		WT. OF STRING 174.00	
				1		1		DRILLER	
				1		1		WEATHER CONDITIONS	

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR UNION OIL CO	LOCATION Block-25	WELL NAME UNION AMOCO McPHERSON	No. B-25	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.	RIG No. 2	DRILL PIPE STRING No. SIZE 1 3/4"	TOOL JOINT 6 1/2 OD	DRILL PIPE GRADE E
OPERATOR'S REPRESENTATIVE <i>[Signature]</i>	CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	PUMPS No. MANUFACTURER TYPE 1 8-D 10-P-130 6XR	CASING & LINER RECORD	SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			

MORNING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 863.42	Drilling or Core Bit No. 82											
2	SNGLS. DP 61.82	TYPE 0	8917										
6	D.C. 174.68	SIZE 8 1/2											
1	DYNAD 19.41	NOZZ. SIZE											
1	RMR BODY OD 13.57	SERIAL No. 8818											
1	SUBS KICK 1.26	DEPTH OUT											
1	BIT OR B. 1.83	FT. DRILLED 98											
1	BIT SUB 3.17	FT. REAMED											
	Kelly Down 41.00	FT. CORED											
	TOTAL 8917	CUM. HRS. RUN 26											
	WT OF STRING 174.00	CONDITION											
	DRILLER <i>Row Chambers</i>												
	WEATHER CONDITIONS												

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.6	10.7	10.6	10.6
VISC.	42	44	42	41
W.L.C.C.	13.8	14.4		
FLTR. CK.	2/3	2		
PH	12.5	12.5		
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
GEL	1800			
BENEX	12			
BARITE	9000			
BICARB	900			

	Morn	Day	Eve
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP & DRILLING OUT			
MISC. ELLEANOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

DAY TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 863.42	Drilling or Core Bit No. 82											
2	SNGLS. DP 61.82	TYPE 0	8917										
6	D.C. 174.68	SIZE 8 1/2											
1	DYNAD 19.41	NOZZ. SIZE											
1	RMR BODY OD 13.57	SERIAL No. 8818											
1	SUBS KICK 1.26	DEPTH OUT											
1	BIT OR B. 1.83	FT. DRILLED											
1	BIT SUB 3.17	FT. REAMED											
	Kelly Down	FT. CORED											
	TOTAL	CUM. HRS. RUN											
	WT OF STRING	LBS.											
	DRILLER <i>Don Newbo</i>												
	WEATHER CONDITIONS												

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.6			
VISC.	43			
W.L.C.C.	13.9			
FLTR. CK.	3/2			
PH	12.5			
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	

WIRE LINE RECORD

REEL No.	
No. OF LINES 10 SIZE 13/8	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCONT.	221
DRILLER ACCONT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

EVENING TOUR

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
92	STANDS DP 863.42	Drilling or Core Bit No. 82											
2	SNGLS. DP 61.82	TYPE 0											
6	D.C. 174.68	SIZE 8 1/2											
1	DYNAD 9.60	NOZZ. SIZE											
1	RMR BODY OD 13.57	SERIAL No. 8818											
1	SUBS OD 1.64	DEPTH IN											
1	BIT SUB 3.17	FT. DRILLED											
	Kelly Down	FT. REAMED											
	TOTAL	CUM. HRS. RUN											
	WT OF STRING	LBS.											
	DRILLER												
	WEATHER CONDITIONS												

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.7	10.7
VISC.			46	48
W.L.C.C.			13.4	
FLTR. CK.			2/3	
PH			12.5	12.5
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
GEL	1500			
BENEX	6			
BICARB	300			
WL100	200			

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		IWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL CO.		Block 25										UNION AMOCO McPHERSON		B-25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		DEPTH SET		TYPE OF CEMENT	
PETER BAWDEN DRILLING SERVICES LTD.		#2		1 3		6 1/2 OD		E		No. MANUFACTURER TYPE		No. 1 NA 1 8-D. 10-P-130 2 GXR		FROM TO		CEMENT USED OTHER	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUNCH															
G. H. Edwards		H. Routh															
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)	
Morn Day Eve		92		STANDS DP 8634.22		Drilling or Core Bit No. 82		8884		6		8890					
DRILLING		1		SNGLS. DP 30.85		TYPE 0											
TRIPPING		6		D.C. 174.68 FT.		SIZE 8 1/2											
RIG MAINTENANCE		1		DYNADOD 19.4 FT.		NOZZ. SIZE											
RIG REPAIRS		1		RMR BODY OD 13.57 FT.		SERIAL No.											
HOLE SURVEYS		1		SUBS KEX 1.26 FT.		DEPTH OUT											
CONDITIONING MUD		1		BIT OR C.B. .83 FT.		FT. DRILLED											
CONDITIONING HOLE		1		BITSUB 3.17 FT.		FT. REAMED											
Reaming & Cleaning To Bottom		1		Kelly Down 14. FT.		FT. CORED											
WORKING OR STUCK PIPE		1		TOTAL 8890 FT.		CUM. HRS. RUN											
FISHING		1		WT OF STRING 172.00 BS.		CONDITION											
LOST CIRCULATION		1		DRILLER Row Chambers													
CASING		1		WEATHER CONDITIONS													
WAITING ON CEMENT		1															
HEADING UP & DRILLING OUT		1															
MISC. ELLANEOUS		1															
SUB TOTAL		1															
DAYWORK HOURS		1															
TOTAL HOURS		1															
WIRE LINE RECORD		1															
REEL No.		1															
No. OF LINES 10 SIZE 1 3/8		1															
FEET SLIPPED		1															
FEET CUT OFF		1															
PRESENT LENGTH		1															
TON MI. or TRIPS SINCE LAST CUT		1															
CUMULATIVE TON MI. or TRIPS		1															
No. OF DAYS FROM SPUD		1															
CUMULATIVE ROTATING HRS.		1															
DAYS SINCE LAST ACCDNT.		1															
DRILLER ACCDNT. FREE DAYS		1															
MORNING TOUR		1															
DAY TOUR		1															
EVENING TOUR		1															

MORNING TOUR		DAY TOUR		EVENING TOUR	
92 STANDS DP 8634.22		92 STANDS DP 8634.22		92 STANDS DP 8634.22	
1 SNGLS. DP 30.85		1 SNGLS. DP 30.85		1 SNGLS. DP 30.85	
6 D.C. 174.68 FT.		6 D.C. 174.68 FT.		6 D.C. 174.68 FT.	
1 DYNADOD 19.4 FT.		1 DYNADOD 19.4 FT.		1 DYNADOD 19.4 FT.	
1 RMR BODY OD 13.57 FT.		1 RMR BODY OD 13.57 FT.		1 RMR BODY OD 13.57 FT.	
1 SUBS KEX 1.26 FT.		1 SUBS KEX 1.26 FT.		1 SUBS KEX 1.26 FT.	
1 BIT OR C.B. .83 FT.		1 BIT OR C.B. .83 FT.		1 BIT OR C.B. .83 FT.	
1 BITSUB 3.17 FT.		1 BITSUB 3.17 FT.		1 BITSUB 3.17 FT.	
1 Kelly Down 14. FT.		1 Kelly Down 14. FT.		1 Kelly Down 14. FT.	
1 TOTAL 8890 FT.		1 TOTAL 8903 FT.		1 TOTAL 8917 FT.	
WT OF STRING 172.00 BS.		WT OF STRING 172.00 BS.		WT OF STRING 172.00 BS.	
DRILLER Row Chambers		DRILLER Don Edwards		DRILLER Don Edwards	
WEATHER CONDITIONS		WEATHER CONDITIONS		WEATHER CONDITIONS	

MUD RECORD		MUD RECORD		MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.	TIME	1st HR. 3rd HR. 5th HR. 7th HR.	TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	9.9 10.0 10.1 10.4	WEIGHT	10.4 10.4 10.4 10.4	WEIGHT	10.4 10.4 10.5 10.6
VISC.	40 42 43 42	VISC.	41 40 40 41	VISC.	44 45 44 43
W.L.C.C.		W.L.C.C.		W.L.C.C.	
FLTR. CK.		FLTR. CK.		FLTR. CK.	
PH	12.5 12.5	PH	12.5 12.0	PH	12.0 12.5 12.5
SD. CONT.		SD. CONT.		SD. CONT.	
MUD & CHEMICALS ADDED		MUD & CHEMICALS ADDED		MUD & CHEMICALS ADDED	
TYPE	AMT.	TYPE	AMT.	TYPE	AMT.
BARITE 32000					
GEL 1400					
BENEX 22					
BICARB 800					

MUD RECORD		MUD RECORD		MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.	TIME	1st HR. 3rd HR. 5th HR. 7th HR.	TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	10.4 10.4 10.4 10.4	WEIGHT	10.4 10.4 10.5 10.6	WEIGHT	10.4 10.4 10.5 10.6
VISC.	41 40 40 41	VISC.	44 45 44 43	VISC.	44 45 44 43
W.L.C.C.		W.L.C.C.		W.L.C.C.	
FLTR. CK.		FLTR. CK.		FLTR. CK.	
PH	12.5 12.0	PH	12.5 12.0	PH	12.0 12.5 12.5
SD. CONT.		SD. CONT.		SD. CONT.	
MUD & CHEMICALS ADDED		MUD & CHEMICALS ADDED		MUD & CHEMICALS ADDED	
TYPE	AMT.	TYPE	AMT.	TYPE	AMT.
BARITE 32000					
GEL 12					
BENEX 2000					
BICARB 900					
W.L. 100-200					

HELD SAFETY MEETING & BLOW OUT DRILL.

HELD SAFETY MEETING & BLOW OUT DRILL.

HELD SAFETY MEETING & BLOW OUT DRILL.

CONSERVATION BOARD COPY

DATE: DEC 26/72

CONSERVATION BOARD COPY

FORM. D1-1-57

REPORT No. 133

DATE: DEC 25 / 72

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 132

DATE: Dec 24/75

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 131

DATE: _____

DEC 23, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR <i>Union Oil</i>		LOCATION <i>Block 25</i>		WELL NAME <i>Union Amoco M² Phelps</i>		PROVINCE	
CONTRACTOR PETER BAWDEN DRILLING SERVICES LTD.		RIG No. 2	DRILL PIPE STRING No. SIZE 1.5	TOOL JOINT 6 3/4	DRILL PIPE GRADE E	PUMPS	
OPERATOR'S REPRESENTATIVE <i>G. H. Edwards</i>		CONTRACTOR'S TOOL PUSHER <i>P. Parquett</i>		MANUFACTURER <i>NAT</i>		TYPE <i>LP-170</i>	
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD	
Morn	Day	Eve					
DRILLING							
TRIPPING							
RIG MAINTENANCE							
RIG REPAIRS							
HOLE SURVEYS							
CONDITIONING MUD							
CONDITIONING HOLE							
Reaming & Cleaning To Bottom							
WORKING OR STUCK PIPE							
FISHING							
LOST CIRCULATION							
CASING							
WAITING ON CEMENT							
HEADING UP & DRILLING OUT							
MISC. ELANF JUS							
SUB TOTAL							
DAYWORK HOURS							
TOTAL HOURS							
WIRE LINE RECORD							
REEL No.							
No. OF LINES							
FEET SLIPPED							
FEET CUT OFF							
PRESENT LENGTH							
TON MI. OF TRIPS SINCE LAST CUT							
CUMULATIVE TON MI. OF TRIPS							
No. OF DAYS FROM SPUD							
CUMULATIVE ROTATING HRS.							
DAYS SINCE LAST ACCDNT.							
DRILLER ACCDNT. FREE DAYS							
MORNING TOUR							
DAY TOUR							
EVENING TOUR							

FORM D1-167

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. *130*DATE: *DEC 22, 72*

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCAT.	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																							
Union Dr.								Union Andrew McPherson	B-25	N.W.T.																							
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SLT FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																			
PETER BAWDEN DRILLING SERVICES LTD.		2	1.5	TYPE THD. XH	E																												
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		1. MANUFACTURER		TYPE																											
G. H. Edwards		P. H. Edwards		NAT		10-P-130																											
				G.D.		G.Y.R.																											
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD			
Morn		Day		Eve																													
DRILLING		1		STANDS DP		982.50		Drilling or Core Bit No.																									
TRIPPING		4		SNGLS. DP		31.19 FT.		TYPE																									
RIG MAINTENANCE				D.C.		OD		FT.		SIZE																							
RIG REPAIRS				RMR BODY		OD		FT.		NOZZ. SIZE																							
HOLE SURVEYS				STB BODY		OD		FT.		SERIAL No.																							
CONDITIONING MUD		4 3/4		SUBS		OD		FT.		DEPTH IN																							
CONDITIONING HOLE				BIT OR C.B.		FT.		FT. DRILLED																									
Reaming & Cleaning To Bottom																																	
WORKING OR STUCK PIPE				Kelly Down		32.00 FT.		FT. CORED																									
FISHING				TOTAL		8884.69 FT.		CUM. HRS. RUN																									
LOST CIRCULATION				WT OF STRING		LBS.		CONDITION																									
CASING				DRILLER		Jorence Amely		WEATHER CONDITIONS																									
HEADING UP & DRILLING OUT		2 8		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
MISC. ELANEUS				STANDS DP		FT.		Drilling or Core Bit No.																									
SUB TOTAL				SNGLS. DP		FT.		TYPE																									
DAYWORK HOURS				D.C.		OD		FT.		SIZE																							
TOTAL HOURS		4 8 8		RMR BODY		OD		FT.		NOZZ. SIZE																							
WIRE LINE RECORD				STB BODY		OD		FT.		SERIAL No.																							
REEL No.				SUBS		OD		FT.		DEPTH IN																							
No. OF LINES		10 SIZE 1 3/4		BIT OR C.B.		FT.		FT. DRILLED																									
FEET SLIPPED																																	
FEET CUT OFF																																	
PRESENT LENGTH																																	
TON MI. or TRIPS SINCE LAST CUT																																	
CUMULATIVE TON MI. or TRIPS																																	
No. OF DAYS FROM SPUD																																	
CUMULATIVE ROTATING HRS.																																	
DAYS SINCE LAST ACCT.		214																															
DRILLER ACCT. FREE DAYS																																	
MORNING TOUR																																	
DAY TOUR																																	
EVENING TOUR																																	
FORM DI-1-67																																	

REMARKS:
1200 4 3/4 CIRC. & CONDITION MUD TO RUN CEMENT
445 5 1/2 RIG TO CEMENT
55 6 1/2 CEMENT + PUMP PLUG DOWN.
445 7 1/4 HOIST 5 STANDS
700 8 1/4 CIRC & W.O.C.
PLUG NO 4 FROM 8886' TO 8392'
PLUG DOWN @ 7:00 AM.

REMARKS:
8 1/2 8 1/2 W.O.C. CIRC W/ PIPE
PLUG NO 4: 20 BBL. WATER AHEAD
250 SACKS NEAT CEMENT
250 SACKS CEMENT w/ 20% FRAC SAND
300 LBS. D-31
145 BBL. DISPLACEMENT
SERV. ALL FAST COUPLES ON MOTORS

REMARKS:
4 1/2 4 1/2 1/4 RIG SERV + BOPS
4 1/2 12 7 1/2 W.O.C. CIRC W/ PIPE

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 129

DATE: DEC 21/72

CONSERVATION BOARD COPY

[illegible]

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
UNION OIL Co.		Block 25					UNION AMOCO McPHERSON B-25		N.W.T.					
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER
PETER BAWDEN DRILLING SERVICES LTD.		2	1 3/4	6 1/2 OD	F	No. MANUFACTURER TYPE								
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER												
G. H. Edwards		Pat Paquette												
TIME DISTRIBUTION—HOURS														
Morn Day Eve														
DRILLING														
TRIPPING														
RIG MAINTENANCE														
RIG REPAIRS														
HOLE SURVEYS														
CONDITIONING MUD														
CONDITIONING HOLE														
Reaming & Cleaning To Bottom														
WORKING OR STUCK PIPE														
FISHING														
LOST CIRCULATION														
CASING														
WAITING ON CEMENT														
HEADING UP & DRILLING OUT														
MISC. ELLENEOUS														
SUB TOTAL														
DAYWORK HOURS														
TOTAL HOURS														
WIRE LINE RECORD														
REEL No.														
No. OF LINES														
SIZE														
FEET SLIPPED														
FEET CUT OFF														
PRESENT LENGTH														
TON MI. or TRIPS SINCE LAST CUT														
CUMULATIVE TON MI. or TRIPS														
No. OF DAYS FROM SPUD														
CUMULATIVE ROTATING HRS.														
DAYS SINCE LAST ACCDNT.														
DRILLER ACCDNT. FREE DAYS														
MORNING TOUR														
DAY TOUR														
EVENING TOUR														
FORM DI-1-67														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
95	STANDS DP	FT.	Drilling or Core Bit No.											TIME
1	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											36 42
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											W.L.-C.C.
	Kelly Down	FT.	FT. CORED											FLTR. CK.
	TOTAL	FT.	CUM. HRS. RUN											pH
	WT OF STRING	LBS.	CONDITION											105
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
1200215 2 1/4 CIR W/ PIPE & COND. MUD														
25 645 4 1/2 TRIP PIPE TO RUN IN OPEN END														
645 800 1 1/4 CIR W/ PIPE PRIOR TO RUN PLUG #3														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
93	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											37
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
Plug From 8570' TO 8951'														
Rig To Run CEMENT & CIR														
Run CEMENT														
Pull 4 STDS & SINGLE & Pick Up Kelly To CIR														
CIR & W.O.C. { 400 SACKS CEMENT }														
SLURRY 15.9# - 17.5# { 20% FRAC SAND }														
100# M-31														
Plug Down AT 945 RIVER WATER														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
4 1/2 4 1/2 1/4 RIG SERV + BOPS ✓														
4 1/2 12 7 3/4 W.O.C. CIR. W/ PIPE														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											40 38
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											TIME
	SNGLS. DP	FT.	TYPE											1st HR.
	D.C.	FT.	SIZE											3rd HR.
	OD	FT.	NOZZ. SIZE											5th HR.
	RMR BODY OD	FT.	SERIAL No.											7th HR.
	STB BODY OD	FT.	DEPTH IN											WEIGHT
	SUBS OD	FT.	DEPTH OUT											9.6
	BIT OR C.B.	FT.	FT. DRILLED											VISC.
		FT.	FT. REAMED											41
	Kelly Down	FT.	FT. CORED											W.L.-C.C.
	TOTAL	FT.	CUM. HRS. RUN											FLTR. CK.
	WT OF STRING	LBS.	CONDITION											pH
	DRILLER													
	WEATHER CONDITIONS													
REMARKS														
10.0 10.0														

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TV/P.		RGE.		W.		WELL NAME		No.		PROVINCE															
UNION OIL CO.		Block 25										UNION AMOCO McPHERSON		B25		N.W.T															
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE	WT & GR.	DEPTH SET		TYPE OF CEMENT		CEMENT USED															
PETER BAWDEN DRILLING SERVICES LTD.		2	15	6 1/2 OD	E							FROM TO																			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		No.		MANUFACTURER		TYPE																					
Charles Bawden		H. Roser		XH		1.		NAT		10-P130																					
						2.		G		GXR																					
						3.																									
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 ±		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		STANDS DP		FT.		Drilling or Core Bit No.																									
DRILLING		6		63 OD		173.47		TYPE		X3A		SIZE		8 1/2		NOZZ. SIZE		3-18		SERIAL No.		AL416									
TRIPPING																															
RIG MAINTENANCE																															
RIG REPAIRS																															
HOLE SURVEYS																															
CONDITIONING MUD																															
CONDITIONING HOLE																															
Reaming & Cleaning To Bottom																															
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
CASING																															
WAITING ON CEMENT																															
HEADING UP & DRILLING OUT																															
MISC. ELLANEOUS																															
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS																															
888																															
WIRE LINE RECORD																															
REEL No.																															
No. OF LINES																															
10 SIZE 138																															
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH																															
TON MI. OF TRIPS SINCE LAST CUT																															
CUMULATIVE TON MI. OF TRIPS																															
No. OF DAYS FROM SPUD																															
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCONT.																															
211																															
DRILLER ACCONT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR																															
EVENING TOUR																															

CONSERVATION BOARD COPY

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 1125

DATE: DEC 17, 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION Oil Co.		B-25		UNION AMOCO McPHERSON		B-25		N.W.T.																	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2		1.5		6 1/2		XH		E															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																							
Charles McPherson		A. Roseth																							
TIME DISTRIBUTION—HOURS		Morn		Day		Eve																			
DRILLING																									
TRIPPING		3 1/4		3 1/2																					
RIG MAINTENANCE		1/4		1/4																					
RIG REPAIRS																									
HOLE SURVEYS																									
CONDITIONING MUD		4 1/4																							
CONDITIONING HOLE		4 1/4		1 1/4																					
Reaming & Cleaning To Bottom																									
WORKING OR STUCK PIPE																									
FISHING																									
LOST CIRCULATION																									
CASING																									
WAITING ON CEMENT																									
HEADING UP & DRILLING OUT																									
MISC. ELLANEOUS		1 1/2																							
SUB TOTAL																									
DAYWORK HOURS																									
TOTAL HOURS		888																							
WIRE LINE RECORD																									
REEL No.																									
No. OF LINES		10		SIZE 1 1/2																					
FEET SLIPPED		1740																							
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. or TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. or TRIPS																									
No. OF DAYS FROM SPUD																									
CUMULATIVE ROTATING HRS.																									
DAYS SINCE LAST ACCDNT.		209																							
DRILLER ACCDNT. FREE DAYS																									
MORNING TOUR																									
DAY TOUR																									
EVENING TOUR																									
FORM D1-1.67																									

No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000 #		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
		STANDS DP		FT.		Drilling or Core Bit No.																							
		SNGLS. DP		FT.		TYPE																							
		D.C.		OD		FT.		SIZE																					
		RMR BODY		OD		FT.		NOZZ. SIZE																					
		STB BODY		OD		FT.		SERIAL No.																					
		SUBS		OD		FT.		DEPTH IN																					
		BIT OR C.B.		FT.		FT. DRILLED																							
		Kelly Down		FT.		FT. CORED																							
		TOTAL		FT.		CUM. HRS. RUN																							
		WT OF STRING		LBS.		CONDITION																							
		DRILLER																											
		WEATHER CONDITIONS																											
		6		173.4		80		X3A		8 1/2		3-18		AL 416		120405		4 1/4		CIR & COND MUD									
		1		1.45		FT.		DEPTH OUT																					
		1		1.38		FT.		FT. DRILLED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1		3.99		FT.		FT. REAMED																					
		1																											

CONSERVATION BOARD COPY

FORM D1-1.67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No.

123 DEC 15, 1972

DATE:

EC 15. 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE	
UNION OIL CO		BLOCK 25										UNION AMOCO McPHERSON		B25		N.W.T.	
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE		WT & GR.	
PETER BARDEN DRILLING SERVICES LTD.		2		5		6 1/2 OD		E		1. NAT 100 130		2. G 11 100 130		3. 8786			
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER		TYPE THD.		X H		E									
Charles McPherson		H. Roseth															
TIME DISTRIBUTION—HOURS		Morn		Day		Eve											
DRILLING																	
TRIPPING		3 1/2		1 1/2													
RIG MAINTENANCE		4		1 1/4													
RIG REPAIRS																	
HOLE SURVEYS																	
CONDITIONING MUD		4 1/4		7 1/4													
CONDITIONING HOLE																	
Reaming & Cleaning To Bottom																	
WORKING OR STUCK PIPE																	
FISHING																	
LOST CIRCULATION																	
CASING																	
WAITING ON CEMENT		8															
HEADING UP & DRILLING OUT																	
MISC. ELLANEOUS																	
SUB TOTAL																	
DAYWORK HOURS																	
TOTAL HOURS		8		8		8											
WIRE LINE RECORD																	
REEL No.																	
No. OF LINES		10		SIZE		1 3/8											
FEET SLIPPED																	
FEET CUT OFF																	
PRESENT LENGTH																	
TON MI. OF TRIPS SINCE LAST CUT																	
CUMULATIVE TON MI. OF TRIPS																	
No. OF DAYS FROM SPUD																	
CUMULATIVE ROTATING HRS.																	
DAYS SINCE LAST ACCDIT.		207															
DRILLER ACCDNT. FREE DAYS																	
MORNING TOUR																	
DAY TOUR																	
EVENING TOUR																	

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 122

DATE: DEC 14 1972

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE															
Union Oil Co.		Block 25										Union Anaco McPherson		B 25		N.W.T.															
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD		SIZE		WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER											
PETER BANDEN DRILLING SERVICES LTD.		2	2	6 1/2 OD	L																										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
No.		MANUFACTURER		TYPE																											
1.		NAT		10-P. 130																											
2.		G.H.		CXR																											
3.																															
TIME DISTRIBUTION—HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn		Day		Eve																											
DRILLING																															
TRIPPING		3/4																													
RIG MAINTENANCE																															
RIG REPAIRS																															
HOLE SURVEYS																															
CONDITIONING MUD																															
CONDITIONING HOLE																															
Reaming & Cleaning To Bottom		1 1/4																													
WORKING OR STUCK PIPE																															
FISHING																															
LOST CIRCULATION																															
WAITING ON CEMENTING		1 1/2																													
HEADING UP & DRILLING OUT		2																													
MISC. ELLANEOUS																															
SUB. TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS		8 8																													
WIRE LINE RECORD																															
REEL No.																															
No. OF LINES		10		SIZE 138																											
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH																															
TON MI. OF TRIPS SINCE LAST CUT																															
CUMULATIVE TON MI. OF TRIPS																															
No. OF DAYS FROM SPUD																															
CUMULATIVE ROTATING HRS.																															
DAYS SINCE LAST ACCDNT.		206																													
DRILLER ACCDNT. FREE DAYS																															
MORNING TOUR																															
DAY TOUR																															
EVENING TOUR																															

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
95	STANDS DP	FT.	Drilling or Core Bit No.											
2	SNGLS. DP	FT.	TYPE											
	OD	FT.	SIZE											
	D.C.	FT.	NOZZ. SIZE											
	RMR BODY OD	FT.	SERIAL No.											
	STB BODY OD	FT.	DEPTH IN											
	SUBS OD	FT.	DEPTH OUT											
	BIT OR C.B.	FT.	FT. DRILLED											
		FT.	FT. REAMED											
	Kelly Down	20.00	FT. CORED											
	TOTAL	8995.66	CUM. HRS. RUN											
	WT OF STRING	155.000	CONDITION											
	DRILLER	Don Neuber												
	WEATHER CONDITIONS	Windy												

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
95	STANDS DP	FT.	Drilling or Core Bit No.											
2	SNGLS. DP	FT.	TYPE											
	OD	FT.	SIZE											
	D.C.	FT.	NOZZ. SIZE											
	RMR BODY OD	FT.	SERIAL No.											
	STB BODY OD	FT.	DEPTH IN											
	SUBS OD	FT.	DEPTH OUT											
	BIT OR C.B.	FT.	FT. DRILLED											
		FT.	FT. REAMED											
	Kelly Down	20.00	FT. CORED											
	TOTAL	8995.66	CUM. HRS. RUN											
	WT OF STRING	155.000	CONDITION											
	DRILLER	P. Purgator												
	WEATHER CONDITIONS													

No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD
	STANDS DP	FT.	Drilling or Core Bit No.											
	SNGLS. DP	FT.	TYPE											
	OD	FT.	SIZE											
	D.C.	FT.	NOZZ. SIZE											
	RMR BODY OD	FT.	SERIAL No.											
	STB BODY OD	FT.	DEPTH IN											
	SUBS OD	FT.	DEPTH OUT											
	BIT OR C.B.	FT.	FT. DRILLED											
		FT.	FT. REAMED											
	Kelly Down	20.00	FT. CORED											
	TOTAL	8995.66	CUM. HRS. RUN											
	WT OF STRING	155.000	CONDITION											
	DRILLER	P. Purgator												
	WEATHER CONDITIONS													

REMARKS: FINISH RUNNING IN E PICK FIVE SINGLES
CLEAN 60' TO BTM. @ 8995.66
CIR W/ PIPE @ 8995.66 OPEN END
HOLE SUFFING CIR TO CLEAN OUT.
Wait on wind to die Blowing Gusts
to 70 M.P.H.

REMARKS: Circ a Clean Hole wait on wind & Storms
to die Blowing Gusts to 70 M.P.H.
Right Run Cement Plug
Cementing
Plug #1 Ben 100 Sachs Oilwell Cement
Ben 145 Sachs Oilwell Cement 2' Back Sand
100 lbs R-2 160 lbs R-31 Dispersant 151 R-1's Mud

REMARKS: Pull 450 Cased & Cond Mud

REMARKS: Displace DP To Mud w/ BT
Circ & con Mud & W.O.C

CONSERVATION BOARD COPY

FORM D1-1.67

Galley of Diesel Fuel on Hand at 8:00 P.m.

REPORT No. 120

DATE DEC 12, 72

CONSERVATION BOARD COPY

FORM D1-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No. 119

DATE: DEC 11, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

PERATOR	UNION OIL CO	LOCATION	Block 25	SEC.	TWP.	RGE.	W.	WELL NAME	Union Amoco McPherson	No.	B-25	PROVINCE	N.W.T.
CONTRACTOR	PETER BAWDEN DRILLING SERVICES LTD.	RIG No.	2	DRILL PIPE STRING No. SIZE	5"	TOOL JOINT	6 1/2 OD	DRILL PIPE GRADE	E	PUMPS		CASING & LINER RECORD	
OPERATOR'S REPRESENTATIVE	Charles Chambers	CONTRACTOR'S TOOL PUSHER	A. Rasmussen	TYPE THD	4 1/2 X 11					No.	MANUFACTURER	TYPE	
										1.	WAT	10-B-130	
										2.	G-D	GXR	
										3.			

TIME DISTRIBUTION—HOURS				MORNING TOUR										MUD RECORD									
	Morn	Day	Eve	No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING				6	D. 6 3/4 OD 172.37	Drilling or Core Bit No. 79 TYPE 544 SIZE 8 1/2 NOZZ. SIZE 3-18													WEIGHT				
TRIPPING	7				OD	FT.													VISC.				
RIG MAINTENANCE	1/4	1/4			RMR BODY OD	FT.													W.L.-C.C.				
RIG REPAIRS				2	SUBS OD 2.83	FT.													FLTR. CK.				
HOLE SURVEYS				1	BIT OR C.B. 3.99	FT.													pH				
CONDITIONING MUD					FT.	FT. REAMED													SD. CONT.				
CONDITIONING HOLE					Kelly Down	FT.													MUD & CHEMICALS ADDED				
Reaming & Cleaning To Bottom	3/4	7/8	7/8		TOTAL	FT.													TYPE	AMT.	TYPE	AMT.	
WORKING OR STUCK PIPE					WT OF STRING	LBS.																	
					DRILLER	CONDITION																	
					WEATHER CONDITIONS																		

DAY TOUR				DAY TOUR										MUD RECORD									
				No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
LOST CIRCULATION				93	STANDS DP	FT.													WEIGHT				
CASING				1	SNGLS. DP	FT.													VISC.				
WAITING ON CEMENT				6	D. 6 3/4 OD 172.37	Drilling or Core Bit No. 79 TYPE 544 SIZE 8 1/2 NOZZ. SIZE 3-18													W.L.-C.C.				
HEADING UP & DRILLING OUT					OD	FT.													FLTR. CK.				
MISC. ELLANEOUS					RMR BODY OD	FT.													pH				
SUB TOTAL					STB BODY OD	FT.													SD. CONT.				
DAYWORK HOURS				2	SUBS OD 2.83	FT.													MUD & CHEMICALS ADDED				
TOTAL HOURS	8	8		1	BIT OR C.B. 3.99	FT.													TYPE	AMT.	TYPE	AMT.	
					FT.	FT. REAMED																	
					Kelly Down	FT.																	
					TOTAL	FT.																	
					WT OF STRING	LBS.																	
					DRILLER	CONDITION																	
					WEATHER CONDITIONS																		

WIRE LINE RECORD				EVENING TOUR										MUD RECORD									
				No.	DRILLING ASSEMBLY	BIT RECORD	Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
REEL No.				93	STANDS DP	FT.													WEIGHT				
No. OF LINES	10	SIZE	1 3/8	2	SNGLS. DP	FT.													VISC.				
FEET SLIPPED				6	D.C.	FT.													W.L.-C.C.				
FEET CUT OFF					OD	FT.													FLTR. CK.				
PRESENT LENGTH					172.37	Drilling or Core Bit No. 79 TYPE 544 SIZE 8 1/2 NOZZ. SIZE 3-18													pH				
TON MI. or TRIPS SINCE LAST CUT CUMULATIVE					RMR BODY OD	FT.													SD. CONT.				
TON MI. or TRIPS					STB BODY OD	FT.													MUD & CHEMICALS ADDED				
No. OF DAYS FROM SPUD					SUBS OD 2.83	FT.													TYPE	AMT.	TYPE	AMT.	
CUMULATIVE ROTATING HRS.					BIT OR C.B. 3.99	FT.																	
DAYS SINCE LAST ACCONT.	203				FT.	FT. REAMED																	
DRILLER ACCONT. FREE DAYS					Kelly Down	FT.																	
MORNING TOUR					TOTAL	FT.																	
DAY TOUR					WT OF STRING	LBS.																	
EVENING TOUR					DRILLER	CONDITION																	
					WEATHER CONDITIONS																		

CONSERVATION BOARD COPY

FORM D-1-67

Gallons of Diesel Fuel on Hand at 8:00 a.m.

REPORT No

DATE: Dec. 9, 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION		LSD.		SEC.		TWP.		RGE.		W.		WELL NAME		No.		PROVINCE							
UNION OIL CO.		BLOCK - 25												UNION AMOCO McPherson		B-25		N.W.T.							
CONTRACTOR		RIG No.		DRILL PIPE STRING No. SIZE		TOOL JOINT		OD		DRILL PIPE GRADE		PUMPS		CASING & LINER RECORD		SIZE WT & GR.		DEPTH SET		TYPE OF CEMENT		CEMENT USED		OTHER	
PETER BAWDEN DRILLING SERVICES LTD.		2										1. No. MANUFACTURER TYPE						FROM TO							
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER										2. No. MANUFACTURER TYPE													
Charles Schneider		R. Rosch										1. No. MANUFACTURER TYPE													
2. No. MANUFACTURER TYPE												2. No. MANUFACTURER TYPE													
G-5												G-5													
10-P-130												10-P-130													
G-XR.												G-XR.													

CONSERVATION BOARD COPY

FORM DI-1-67

Gallons of Diesel Fuel on Hand at 8:30 a.m.

REPORT No.

DATE: DEC 7 72

DAILY TOUR REPORT

CONSERVATION BOARD COPY

OPERATOR		LOCATION	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE											
UNION OIL Co		Block - 25					UNION AMCO McPHERSON	B-25	N.W.T.											
CONTRACTOR		RIG No.	DRILL PIPE STRING No. & SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD											
PETER BAWDEN DRILLING SERVICES LTD.		2					No. MANUFACTURER TYPE		SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER											
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																		
1. <i>Alast</i>		10-P-130																		
2. <i>G-D</i>		GXR																		
3. <i>G-D</i>		GXR																		
TIME DISTRIBUTION—HOURS																				
	Morn	Day	Eve																	
DRILLING																				
TRIPPING			2																	
RIG MAINTENANCE																				
RIG REPAIRS			6																	
HOLE SURVEYS																				
CONDITIONING MUD																				
CONDITIONING HOLE																				
Reaming & Cleaning To Bottom																				
WORKING OR STUCK PIPE																				
FISHING																				
LOST CIRCULATION																				
CASING																				
WAITING ON CEMENT																				
HEADING UP & DRILLING OUT																				
MISC. ELLANEOUS																				
SUB TOTAL																				
DAYWORK HOURS																				
TOTAL HOURS			8																	
WIRE LINE RECORD																				
REEL No.																				
No. OF TIMES	10 SIZE 1 1/2																			
FEET SLIPPED																				
FEET CUT OFF																				
PRESENT LENGTH																				
TON MI. or TRIPS SINCE LAST CUT																				
CUMULATIVE TON MI. or TRIPS																				
No. OF DAYS FROM SPUD																				
CUMULATIVE ROTATING HRS.																				
DAYS SINCE LAST ACCDNT.	199																			
DRILLER ACCDNT. FREE DAYS																				
MORNING TOUR	1500																			
DAY TOUR																				
EVENING TOUR																				
MORNING TOUR																				
No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
33	STANDS DP	FT.	Drilling or Core Bit No.													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
1	SNGLS. DP	FT.	TYPE	X16												WEIGHT				
6	D.C. 1 1/2	173.41	SIZE	8 1/2												VISC.				
	OD	FT.	NOZZ. SIZE	3/18												W.L.C.C.				
	RMR BODY OD	FT.	SERIAL No.	FA384												FLTR. CK.				
	STB BODY OD	FT.	DEPTH IN													PH				
2	SUBS 1/2 OD	2.83	DEPTH OUT		120 1/2	123 1/4		14	RIG SERV + PIPE RAMS.							SD. CONT.				
	BIT OR C.B.	FT.	FT. DRILLED		125 1/5	125 1/5	1		PICKING UP SINGLES							MUD & CHEMICALS ADDED				
1	BIT SUB	3.99	FT. REAMED		115 1/2	120 1/2	1/4		TRY TO BREAK CIRC. PLUG BIT @ 1400'							TYPE	AMT.	TYPE	AMT.	
	Kelly Down	FT.	FT. CORED		120 2/5	120 2/5	3/4		HOIST W/ PLUG BIT											
	TOTAL	3293.80	CUM. HRS. RUN		245 2/5	245 2/5	1/2		W/ PLUG BIT + BIT SUB.											
	WT OF STRING	LBS.	CONDITION		245 3/4	245 3/4	1		RUN IN + BREAK CIRC.											
	DRILLER	Row Chamber			245 7/8	245 7/8	3		PICKING UP SINGLES BREAK CIRC. EVERY 20 SINGLES.											
	WEATHER CONDITIONS				730 8/2	730 8/2	1/2		CIRC. HEAVY MUD OUT OF HOLE.											
DAY TOUR																				
No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
3	STANDS DP	5024.58	Drilling or Core Bit No.													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
2	SNGLS. DP	FT.	TYPE	X16												WEIGHT				
6	D.C. 1 1/2	173.41	SIZE	8 1/2												VISC.				
	OD	FT.	NOZZ. SIZE	3/18												W.L.C.C.				
	RMR BODY OD	FT.	SERIAL No.	FA384												FLTR. CK.				
	STB BODY OD	FT.	DEPTH IN													PH				
2	SUBS 1/2 OD	2.83	DEPTH OUT		500 8/5	500 8/5	1/4		RIG SERV. E. BOPS							SD. CONT.				
	BIT OR C.B.	FT.	FT. DRILLED		315 1/2	1200			PICK UP 5" PIPE STEAM & CLEAN SAME OUT							MUD & CHEMICALS ADDED				
1	BIT SUB	3.99	FT. REAMED		1200 1/30	1200 1/30			MOVE PIPE IN JERRICK TO WORK TONGS							TYPE	AMT.	TYPE	AMT.	
	Kelly Down	FT.	FT. CORED		130	130			RUN 5" PIPE FROM JERRICK STEAM											
	TOTAL	5204.81	CUM. HRS. RUN						CALIBER SAME LAY DOWN ONE'S UNDER GAUGE											
	WT OF STRING	LBS.	CONDITION		300	300			WORK ON ELECTRICAL SYSTEM W/ ELECTRICIAN											
	DRILLER	Don Henderson			300	400														
	WEATHER CONDITIONS																			
EVENING TOUR																				
No.	DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA-RY R.P.M.	WT ON BIT 1000 #	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN	MUD RECORD				
	STANDS DP	FT.	Drilling or Core Bit No.													TIME	1st HR.	3rd HR.	5th HR.	7th HR.
	SNGLS. DP	FT.	TYPE	X16												WEIGHT				
6	D.C. 1 1/2	173.41	SIZE	8 1/2												VISC.				
	OD	FT.	NOZZ. SIZE	3/18												W.L.C.C.				
	RMR BODY OD	FT.	SERIAL No.	FA384												FLTR. CK.				
	STB BODY OD	FT.	DEPTH IN													PH				
2	SUBS 1/2 OD	2.83	DEPTH OUT		400 1/2	400 1/2	6		WORK ON ELECTRICAL SYSTEM							SD. CONT.				
	BIT OR C.B.	FT.	FT. DRILLED													MUD & CHEMICALS ADDED				
1	BIT SUB	3.99	FT. REAMED		1000 1/2	1000 1/2	2		RUN IN HOLE LAY DOWN UNDER GAUGE RPE							TYPE	AMT.	TYPE	AMT.	
	Kelly Down	FT.	FT. CORED																	
	TOTAL	FT.	CUM. HRS. RUN																	
	WT OF STRING	LBS.	CONDITION																	
	DRILLER	P. P. P. P. P.																		
	WEATHER CONDITIONS																			

DAILY TOUR REPORT

NON BOARD COPY

OPERATOR		LOCATION	LSP	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																			
UNION OIL CO		Block 25						UNION AMOCO McPHERSON	B. 25	N.W.T.																			
CONTRACTOR		RIG No.	DRILL PIPE STRING No. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER														
PETER BAWDEN DRILLING SERVICES LTD.		2					No. MANUFACTURER TYPE					FROM TO																	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																											
Charles Schneider		G. Roseth																											
TIME DISTRIBUTION—HOURS		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
Morn Day Eve		STANDS DP		FT. Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
DRILLING		SNGLS. DP		FT. TYPE																								WEIGHT	
THIPPING		D.C. OD		FT. SIZE																								VISC.	
RIG MAINTENANCE		RMR BODY OD		FT. NOZZ. SIZE																								W.L.C.C.	
RIG REPAIRS		STB BODY OD		FT. SERIAL No.																								FLTR. CK.	
HOLE SURVEYS		SUBS OD		FT. DEPTH IN																								PH	
CONDITIONING MUD		BIT OR C.B.		FT. FT. DRILLED																								SD. CONT.	
CONDITIONING HOLE		Kelly Down		FT. FT. CORED																								MUD & CHEMICALS ADDED	
Reaming & Cleaning To Bottom		TOTAL		FT. CUM. HRS. RUN																								TYPE AMT. TYPE AMT.	
WORKING OR STUCK PIPE		WT OF STRING		LBS. CONDITION																									
FISHING		DRILLER		Raw Chambers																									
LOST CIRCULATION		WEATHER CONDITIONS																											
CASING		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
WAITING ON CEMENT		STANDS DP		FT. Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
HEADING UP & DRILLING OUT		SNGLS. DP		FT. TYPE																								WEIGHT	
MISC. ELLANEOUS		D.C. OD		FT. SIZE																								VISC.	
SUB TOTAL		RMR BODY OD		FT. NOZZ. SIZE																								W.L.C.C.	
DAYWORK HOURS		STB BODY OD		FT. SERIAL No.																								FLTR. CK.	
TOTAL HOURS		SUBS OD		FT. DEPTH IN																								PH	
WIRE LINE RECORD		BIT OR C.B.		FT. FT. DRILLED																								SD. CONT.	
REFL No.		Kelly Down		FT. FT. CORED																								MUD & CHEMICALS ADDED	
No. OF LINES		TOTAL		FT. CUM. HRS. RUN																								TYPE AMT. TYPE AMT.	
FEET SLIPPED		WT OF STRING		LBS. CONDITION																									
FEET CUT OFF		DRILLER		Don Nando																								SEND TOM SINCLAIR	
PRESENT LENGTH		WEATHER CONDITIONS																										CHECK TO ROYAL	
TON MI. OF TRIPS SINCE LAST CUT		No. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cored or Reamed This Tour		Depth At End of Tour		FORMATION (SHOW CORE RECOVERY)		ROTA- RY R.P.M.		WT ON BIT 1000#		PUMP PRESS.		LINER SIZE		S.P.M.		HRS. RUN		MUD RECORD	
CUMULATIVE TON MI. OF TRIPS		STANDS DP		FT. Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
No. OF DAYS FROM SPUD		SNGLS. DP		FT. TYPE																								WEIGHT	
CUMULATIVE ROTATING HRS.		D.C. OD		FT. SIZE																								VISC.	
DAYS SINCE LAST ACCDNT.		RMR BODY OD		FT. NOZZ. SIZE																								W.L.C.C.	
DRILLER ACCDNT. FRFE DAYS		STB BODY OD		FT. SERIAL No.																								FLTR. CK.	
MORNING TOUR		SUBS OD		FT. DEPTH IN																								PH	
DAY TOUR		BIT OR C.B.		FT. FT. DRILLED																								SD. CONT.	
EVENING TOUR		Kelly Down		FT. FT. CORED																								MUD & CHEMICALS ADDED	
		TOTAL		FT. CUM. HRS. RUN																								TYPE AMT. TYPE AMT.	
		WT OF STRING		LBS. CONDITION																									
		DRILLER		James Sharby																									
		WEATHER CONDITIONS		Mid																									