

UNION PAN AM TRAINOR E-35

Drilling Authority No. 238
Date Issued 7-12-66

WELL NAME Union Pan Am Trainor E-35

FIELD Wildcat

LOCATION: Unit E Area: Section 35 Grid 60-20 - 120-25
Latitude 60-14-21 Longitude 120-22-29
From Established Reference Marker

U. W. L. R. - 60.22416 - 120.27472
U. W. I. No - 3004356020120150

Rig Release Date: 10-1-67
Status D-A
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
7-12-66	Application for a Drilling Authority.
3-3-67	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
6-3-67	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.
	Well Visit.
	Daily Drilling Reports.
	Logs. Large scale Small scale



RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.

Well name and number **Union Pan Am Trainor E-35**
 Permit No. **2697** Lease No. _____
Pan American Pet. Corp. Exploratory Licence No. **1132**
(Permitter, Lessee, Licensee)
Union Oil Co. of Canada Ltd. Exploratory Licence No. **1153**
(Operator)
 Location: Unit **E** Section **35** Grid **60° 20' x 120° 15'**
 Latitude **60° 14' 21"** Longitude **120° 22' 29"**
 From Established Reference Marker **Shot Point 300. Line 13 of Exploration Consultants Inc. Shot in 1960 for Pan Am.**

	DATE	DEPTH	Pool (s)
Spudded	Dec. 20/66		Interval(s) open to production
Suspended			
Resumed			
Finished Drilling	Jan. 26/67	7292 <i>for a landing</i>	
Deepened			Elevation: Gr. 2420 (Est.)
Complete (gas/oil)			K.B. 2436.5 (Est.)
Abandoned	Jan. 29/67		Drilling Contractor & Rig No. P. Bawden(1964)Ltd.#19
Rig released	Jan. 30/67		Contractor's Business Licence No. 24269

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at—	Sacks of Cement and Additives
1. 9-5/8	H40	32.3	309.25	808.11	650 plus 3% CaCl₂
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depth	Sub-Sec	From	To	Rec.	From	To	Rec.
Mississippian	2168	269						
Kotcho	2830	393						
Kotcho Shale	3090	653						
Utahn	4293	1856						
Ft. Simpson	4337	1900						
Muskwa	5925	3488						
Slave Point	6000	3563						
Sulphur Point	6253	3816						
Presquile Reef	6480	4043						
Keg River	6638	4201						
Chinchaga	7005	4568						
Red Beds	7170	4733						
Pre-Cambrian	7256	4819						
Total Depth	7290	4853						

LOG RECORD

Run No.	Type of Log	From	To
1	Dual Induction		
	Laterolog.	7289	808
1	Borehole Comp. Sonic.	7289	808
1	Formation Den. Log.	7292	5800
1	Microlog Caliper	7292	5792
	Velocity survey by Century Geophysical		

CEMENTING RECORD (Plug, Squares, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
1/28/67	7290	7240	w/30 axs. Not felt.								
1/28	6700	6410	w/170 axs plus 2% CaCl ₂ . Felt at 6375'.								
1/29	6100	Up hole	w/115 axs. Not felt.								
1/29	660	560	w/70 axs. plus 2% CaCl ₂ . Felt at 530'.								
	Surface		5 axs 3' down								
			5 axs each in rathole and mousehole. Voided in plate.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.R.H.P.	P.S.I.B.H.P.	I.F.B.H.P.	P.F.B.H.F.	I.H.P.	P.H.P.	REMARKS
1	1/17/67	Presquite	6497	6462	70	65	60	2300	2276	1539 1533	2276	3369 3355	3332 3327	Good blow on preflow. No blow on main floor. Tool plugged. Rec. 4260' fluid. 300' muddy salt water slightly gas cut, 3960' salt water.
2	1/19/67	Presquite	6646	6616	120	60	130	2337 2331	2318 2325	286 275	607 610	3425 3421	3360 3320	Fair becoming weak to faint at end of flow period. Rec. 1180' fluid, 300' muddy salt water slightly gas cut, 880' clean salt water slightly gas cut.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CBH-2-1115	Water	6462'	6497'	D.S.T. #1	1 Sample, above tool
CBH-2-1115	Water	6646'	6616'	D.S.T. #2	1 Sample, top of tool

PRESENT STATUS OF WELL

Oil	(Interval)
Gas	(Interval)
Dry	
Susp.	

Union Oil Company of Canada Limited

M. S. Hughes

District Superintendent

March 3, 1967

Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta

**DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES**
RESOURCE MANAGEMENT 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 Pan Am Trainor E-35**
Location: Unit **E** Section **35** Grid **60° - 20' x 120° - 15'**
Latitude **60° - 14' - 21"** Longitude **120° - 22' - 29"**
From Established Reference Marker **Shot point 300, Line 13 of Exploration**
Consultants Inc. Shot in 1960 for Pan Am.
Permit No. **2697** Lease No.

Pan American Petroleum Corporation
(Permittee, Licensee, Lessee)

Date of commencement of proposed program **January 28, 1967**

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at
Gas at
Water at **6462-6646**
Total Depth **7290** Date of last operations **January 27, 1967**
Present condition of well **Dry and Abandoned**

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. 9-5/8	32.3	809.25	808.11	650 plus 3% CaCl₂	Nil
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
1	7290-7240	Pre-Cambrian	300	No feel
2	6700-6410	Prossquile	170	Feel after 8 hrs.
3	660-560	Surface casing	15	Feel after 8 hrs.
4	Surface	Surface	5	Cut off csg. 3 feet down. 5 exs in rat and mouse hole

The following logs have been run **D-I-LL, BHCS, FDL, M-Cal., Velocity Survey**
Other operations proposed **Nil**

Operations to be carried out by **P. Bawden (1964) Ltd.** Contractor Licence No. **24269**
Address **707 - Seventh Ave. S.W., Calgary** Address
Responsible Agent in field **C. E. Smith** **Ft. Nelson, B.C.**
Dated at **Calgary**, this **Third** Day of **March** 19 **67**
Signed by **District Superintendent** Company **Union Oil Co. of Canada Limited**
Title **District Superintendent** Operator's Exploratory Licence No. **1153**

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 27th of January 1967

Dated **6th March**, 19 **67**

B.H.J. Thoms
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES 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 made hereby for approval to drill:—

Name and number of well **Union Pan Am. Trainor E35**
Location: Unit **E** Section **35** Grid **60° - 20' x 120° - 15'**
Latitude **60° - 14' - 21"** Longitude **120° - 22' - 29"**
From Established Reference Marker **Shot Point 300, Line 13 of Exploration**
Consultants Inc. Shot in 1960 for Pan Am
Elevation: Ground **2420' (Est.)** K.B. **2437 (Est.)** feet above sea-level.
Well is expected to produce from **Slave Point** formation at a depth
of about **6040** feet.
Area assigned to well
(for Oil Conservation Engineer's use only)

Permit No. **2697** Lease No. **--** Acreage **63,534**
Permitter, licensee, or lessee **Pan American Petroleum Corporation**
Exploratory Licence No. **215 1132**
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	Brand	New or Used	Estimated Depth	Barrels of Cement
1. 9-5/8"	32.30	H-40	Mann.	New	800'	Circulated
2. 5-1/2"	15.50	J-55	Mann.	New	T.D.	500
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment **Surface Casing to control surface waters. Blow out preventers will be used to control high pressure oil and/or gas.**

Well will be drilled with (Rotary) Rig No. **19** by **Peter Bawden (1964) Ltd.**
(Owner) (Drilling Contractor or company)

707 - Seventh Ave. S.W., Calgary, Alta.

Responsible agent of applicant:— Contractor's Licence No. **A-10247 24269**
At well **C. E. Smith** At registered office **H. E. Hughes**
Address **Fort Nelson, B.C.** Address **709 - 8 Ave. S.W., Calgary, Alta.**

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

Dated at **Calgary, Alberta** this **2** day of **December** 19**66**
Signed by **H. E. Hughes** Company **Union Oil Company of Canada Limited**
Title **District Supt.** Licence No. **220 and 1002 1153**

(For Resources Division use only)

APPROVED

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

The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

Dated **7th December** 19**66**

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

Final Well Report
Union Pan Am Trainor E-35
60° 14' 21" N. - 120° 22' 29" W.
Northwest Territories

28-11-4-20

January, 1967

1-5
67
12

WELL HISTORY REPORT

SECTION I - Summary of Well Data

Name of Well: Union Pan Am Trainor E-38

Permittee: Pan American Petroleum & Co. Corporation

Operator: Union Oil Company of Canada Limited

Location: Province: N.W.T.
Shot Point No. 300, Line 13, 1960 Exploration
Cons. Shot for Pan Am.
60° 14' 21" N. 120° 22' 29" W
Unit 3 Sec. 35 - 60° 20' N. 120° 15' W

Permit No: 2697

Drilling Contractor: Peter Bawden Drilling (1964) Ltd.

Drilling Authority No: 238 December 7, 1966

Classification: Exploratory - Wildcat

Elevations: Ground 2,420'
K.B. 2,437'

Spudded: December 20, 1966 at 2:00 P.M.

Completed Drilling: January 26, 1967 at 8:00 P.M.

Depths: T.D. 7292' Driller 7258'

Well Status: Dry & Abandoned

Rig Released: January 30, 1967 at 4:00 P.M.

Hole Size: 13 3/4" - 8' - 808'
8 3/4" - 808' - 7292'

Casing: 9 5/8" C 808' w/650 sxs Cement plus 3% CaCl2.

SECTION II - Geological Summary

Formation Tops:	B-Log	Depth	Subsida
	Mississippian	1168	289
	Kotoho	2890	-393
	Kotoho Shale	3060	-633
	Utahn	4293	-1856
	Fort Simpson	4337	-1900
	Muskwa	5925	-3488
	Slave Point	6000	-3563
	Sulphur Point	6253	-3810
	Presquile Reef	6460	-4043
	Keg River	6638	-4201
	Chinchaga	7005	-4568
	Red Beds	7170	-4733
	Pre-Cambrian	7256	-4819
	TD	7290	-4853

Cored Intervals: No cores were taken.

SAMPLE DESCRIPTION

UNION PAN AM TRAINOR E-35

4100 4289 shale medium grey, noncalcareous

Utahn 4289 (-1852)

4289 4300 limestone white pasty
limestone brown very fine grained, trace
micro-vuggy porosity, no show

4300 4330 limestone white pasty to light brown earthy,
very slightly argillaceous

Fort Simpson 4330 (-1893)

4330 4380 non-representative samples
(top of Fort Simpson picked from the geolograph)

4380 4470 shale medium grey noncalcareous

4470 4480 non-representative sample

4480 4720 shale medium grey noncalcareous
grading in part to
shale grey-green noncalcareous

4720 4740 non-representative samples

4740 5060 shale grey-green noncalcareous
4740-4890, 4930-5000, 5020-5030, 5050-5060
shale brown noncalcareous

4780-4810, 4850-4930, 4980-5030
siltstone white quartz-chert,
calcareous

5060 5590 shale green platy noncalcareous
5270-5280, 5510-5520, 5560-5590
shale brown platy noncalcareous

5590 5600 no sample

5600 5925 shale green platy noncalcareous
5630-5640.
trace pyrite
5650-5660 shale brown platy noncalcareous

Atuskwa 5925 (-3488)

5925	5996	shale	very dark grey, fissile, noncalcareous, in part brownish 5940-5950 trace pyrite 5960-5980 abundant pyrite
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N.B. 5' samples start at 5985

Slave Point 5996 (-3559)

5996	6060	limestone	white pasty
		limestone	dark grey earthy argillaceous with white limy inclusions
		6045-6050, 6055-6060	traces of micro-vuggy porosity, dead oil
		6010-6020, 6050-60	limestone brown dense Algal in part,
		6045-6050	shale, medium brown, noncalcareous (laminations)
6060	6065	non-representative sample	
6065	6110	limestone	white pasty
		limestone	dark grey earthy argillaceous with white limy inclusions
		6070-6085, 6095-6100, 6105-6110	traces of micro-vuggy porosity, dead oil
		limestone	brown dense Algal
6110	6242	limestone	brown dense Algal
		limestone	white pasty
		6130-6140, 6145-6155, 6215-6220, 6235-6240	traces of porosity, dead oil.

6120-6150, 6235-6242 limestone dark grey earthy
as above

Sulphur Point 6242 (-3805)

6242	6370	limestone	white pasty 6242-6255, 6275-6280, 6290-6295 6330-6340, 6365-6370 limestone light buff, pelleted and oolitic, in part Algal
			6245-50, 6255-6260, 6315-6320, 6345-6350 trace vuggy porosity, dead oil (?)
6370	6380	no samples	
6380	6477	limestone	white pasty as above 6380-6390, 6400-6405, 6430-6477 limestone light buff pelleted and oolitic, in part Algal (minor amounts)
		6455-6465	trace dead oil
		6470-6480	shale brown noncalcareous
		6465-6477	dolomite white, clean, (trace only)

Presqu'ile Reef 6477 (-4040)

6477	6588	dolomite	white clean massive with associated clear crystalline dolomite - vug linings - also few crescent shaped edges on cuttings - good to fair vuggy porosity, scattered traces of dead oil - 6575-6580 trace of pyrite
6588	6625	limestone limestone	white pasty, buff dense, part pelleted, Algal ?
6625	6640	dolomite	white porous as for 6477-6588

Keg River 6640 (-4203)

6640	6706	dolomite	buff to dark brown residual pelletting in part dense, very dark brown -
		6685-6690	dolomite white, massive (minor amounts)
		6695-6700	anhydrite white massive (minor amounts)
6706	6760	dolomite	buff dolomitized calcarenite 6706- 6747 trace micro-vuggy porosity, no show
6760	6770	dolomite	light greyish brown to dark grey finely crystalline to dense, argillaceous
6770	6775	no sample	
6775	6990	dolomite	very dark grey to dark brown very finely crystalline to dense argillaceous in part with residual, pelletting 6785-6790, 6805-6815, 6885-6895 white dolomite veining 6820-6855, 6860-6865 dolomite white clean crystalline dead oil no visible porosity. 6925-6940, 6970-6975, 6985-6990 dolomite dense grey anhydritic 6930-6935, 6965-6975 chert, trace
6990	7005	dolomite	grey dense argillaceous

Chinchaga 7005 (-4568)

7005	7050	anhydrite	soft white crumbly
7050	7080	shale	green platy noncalcareous
		7050-7060, 7070-7080	sandstone quartzose poorly sorted subangular to rounded
7080	7090	non-representative sample	
7090	7100	anhydrite shale	as above as above
7100	7110	sandstone	quartzose poorly sorted, sub- angular to rounded, anhydritic cement
7110	7130	dolomite	buff dense
7130	7140	anhydrite	white massive
7140	7150	shale	as above
7150	7157	anhydrite	as above

Redbeds 7157 (-4720)

7157	7160	shale	red in part anhydritic
7160	7180	anhydrite	white massive
7190	7200	shale anhydritic	red as above as above
7200	7255	shale shale	red as above green as above

Precambrian 7255 (-4818)

7255	7265	greywacke	dark colored, brownish-grey dolomitic in part sandy and gritty
7265	7288	igneous rock	quartz diorite (?) fresh, unweathered

SECTION III - Engineering Summary

Drillstem Test Summary: January 17 - Presquille Reef

DST #1. 6462 - 6497 - (3.H.)

Preble - 10 mins. ISI 13 mins.

V.O. - Tool plugged immediately.

FSI - No final shut in.

Blow: good blow on preble - no blow on mainflo.

Recovered 300' muddy salt water. very slightly

gas cut, 3960' clean salt water.

IHP 3333 IFP 1348 ISIP -

FHP 3300 FFP - FSIP 2261

January 19 - Presquille Reef

DST #2. 6616 - 6646

Preble 10 mins. ISI 60 VO 120 FSI 130

Blow: poor blow on preble - fair blow on mainflo.

becoming weak-faint at end of flow period.

Recovered 1180' slightly gas cut salt water -

top 300' slightly muddy.

IHP 3370 IFP 103 ISIP 2322

FHP 3300 FFP 281 FSIP 2315

Casing Record:

26 jts. 9 5/8" H-40 32.3# (809.25') set @ 808.11'
with 650 sacks cement + 3% CaCl₂.

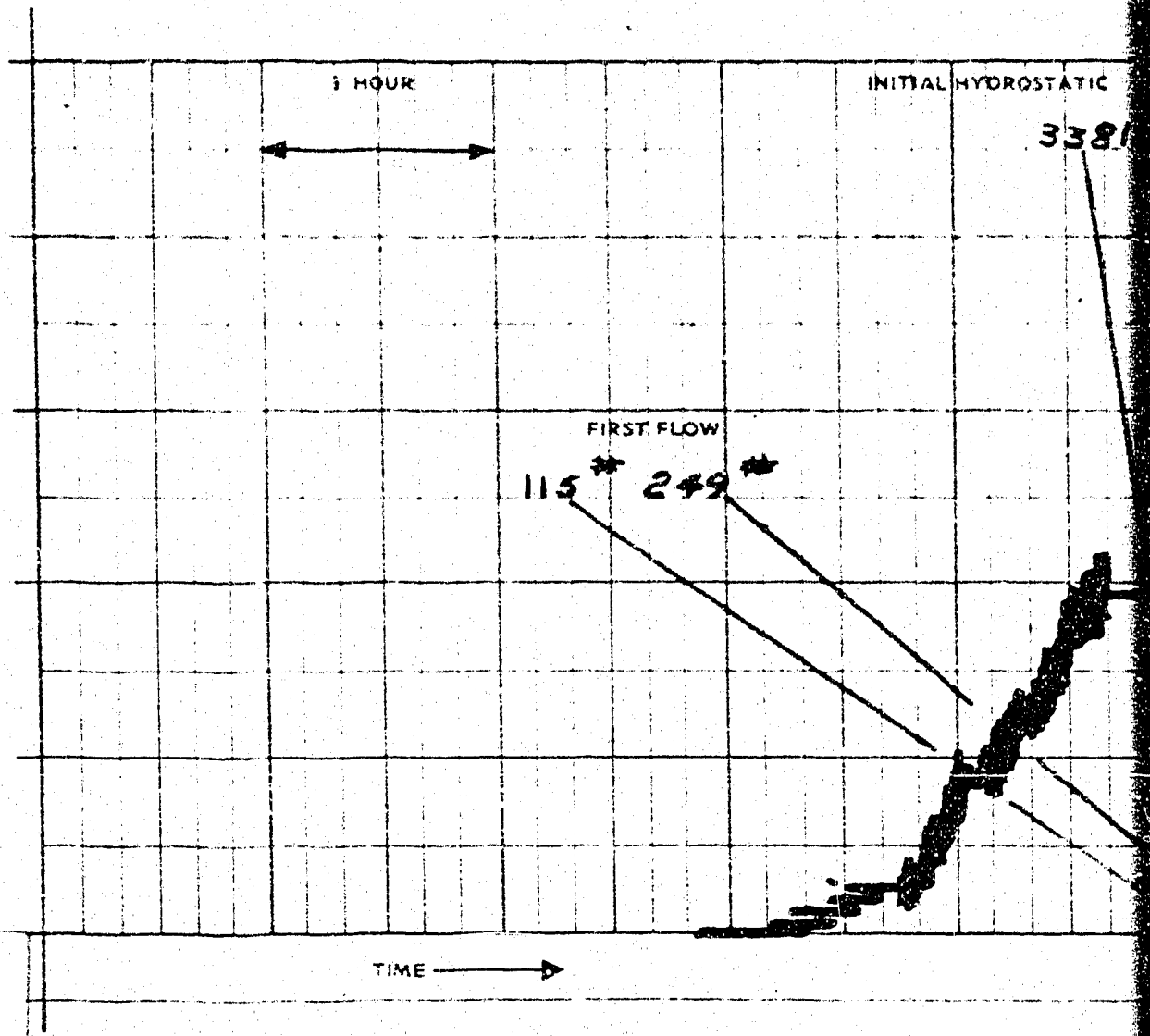


Field Report No C-9777

Instrument
Number AH1-1878

Capacity 7300 p.s.i.

Depth 6623 ft.



* a continuous tracing of the original chart

HYDROSTATIC

FINAL HYDROSTATIC

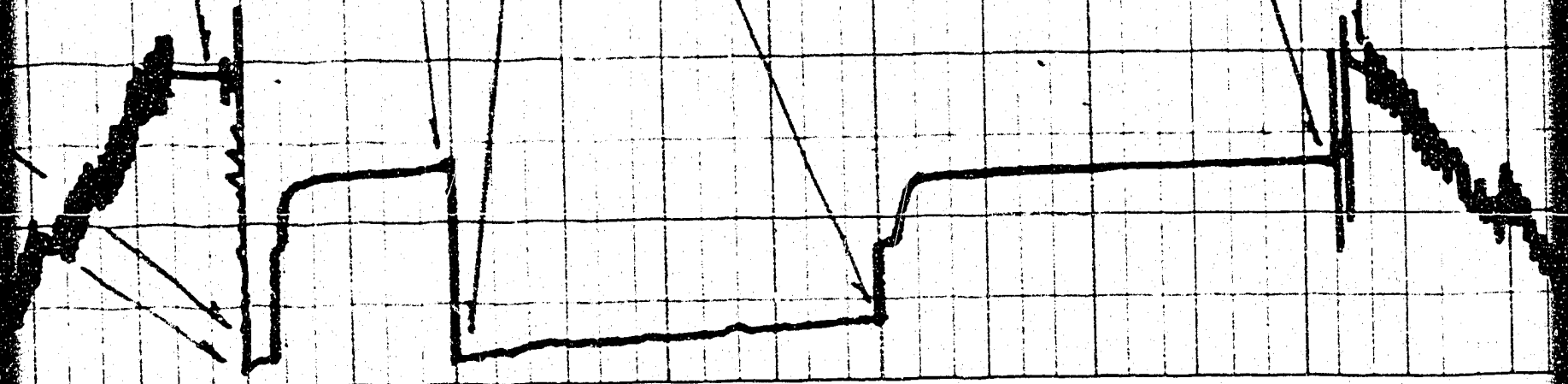
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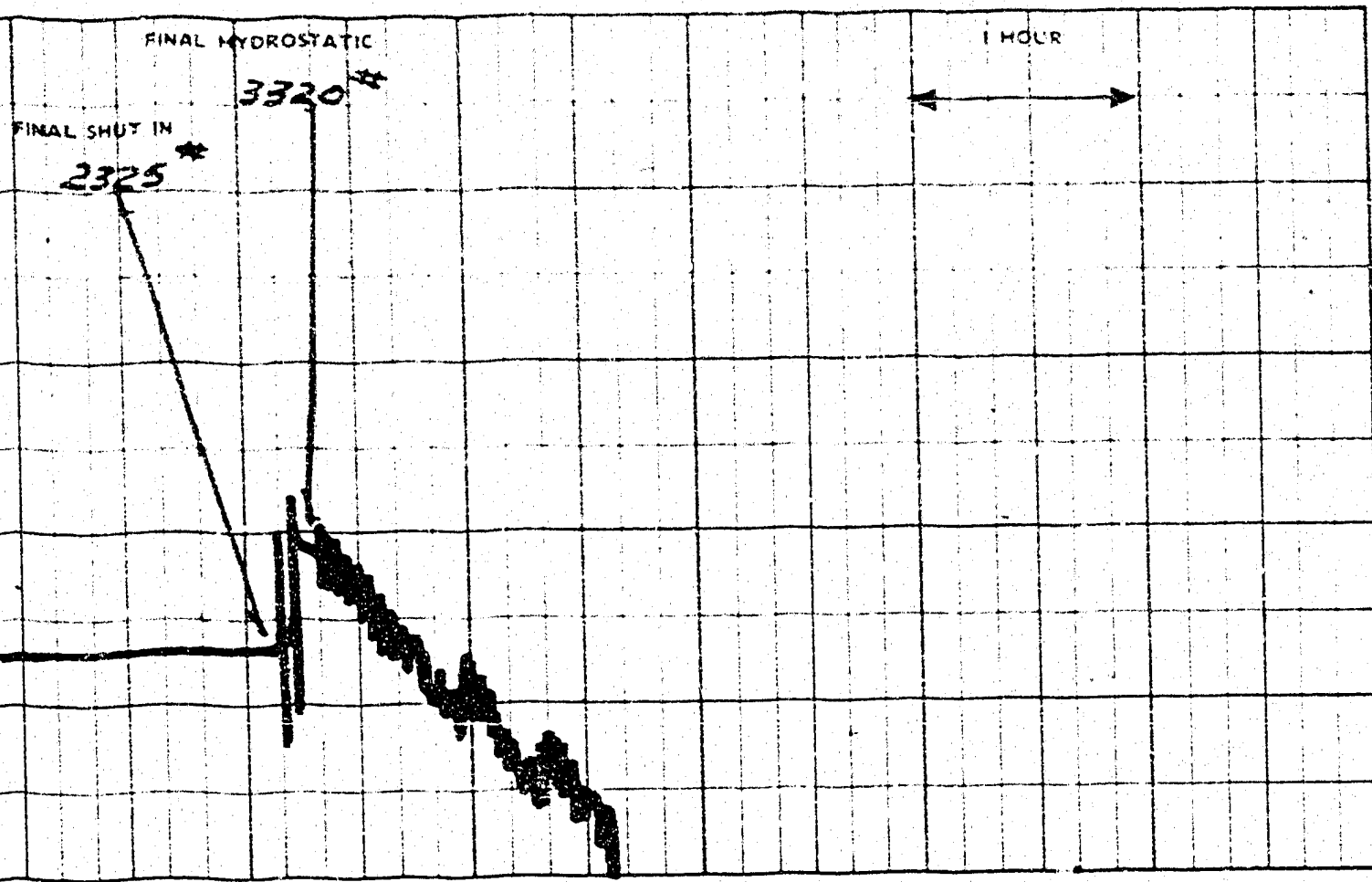
3320 #

INITIAL SHUT IN
2381 #

FINAL SHUT IN
2325 *

SECOND FLOW
284 * 610 *





[illegible]



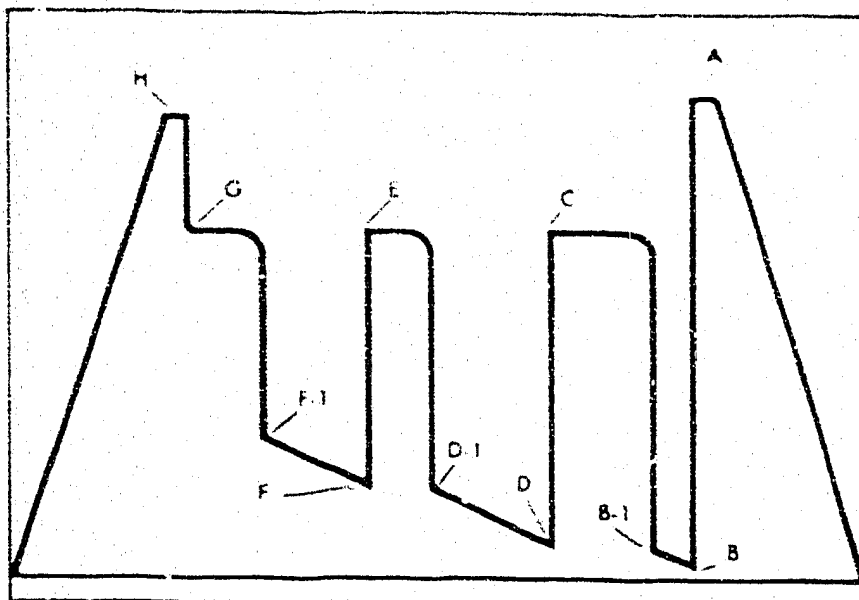
PRESSURE DATA

INSTRUMENT NO.		AKI-2091	AKI-1878	FIELD REPORT NO. C-9777	
CAPACITY INQ.		7300	7300		
INSTRUMENT DEPTH		6619	6623		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT (PSI/FT)				TIME DATA	
WELL TEMP. °F		211°	211°		
INITIAL HYDROSTATIC		A 3370#	3381#	TIME GIVEN	TIME COMPUTED
FIRST FLOW		B 103#	115#	MINS	MINS
B-1		239#	249#		
INITIAL SHUTIN		C 2322#	2331#	MINS	MINS
SECOND FLOW		D 281#	284#	MINS	MINS
D-1		598#	610#		
SECOND SHUTIN		E		MINS	MINS
THIRD FLOW		F		MINS	MINS
FINAL SHUTIN		G 2315#	2325#	MINS	MINS
FINAL HYDROSTATIC		H 3300#	3320#	CLOCK TRAVEL	IN/MIN

PRESSURE INCREMENTS	
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A 1, A 2, A 3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.



FIELD
REPORT NO.

C-9777

RECORDER NO.

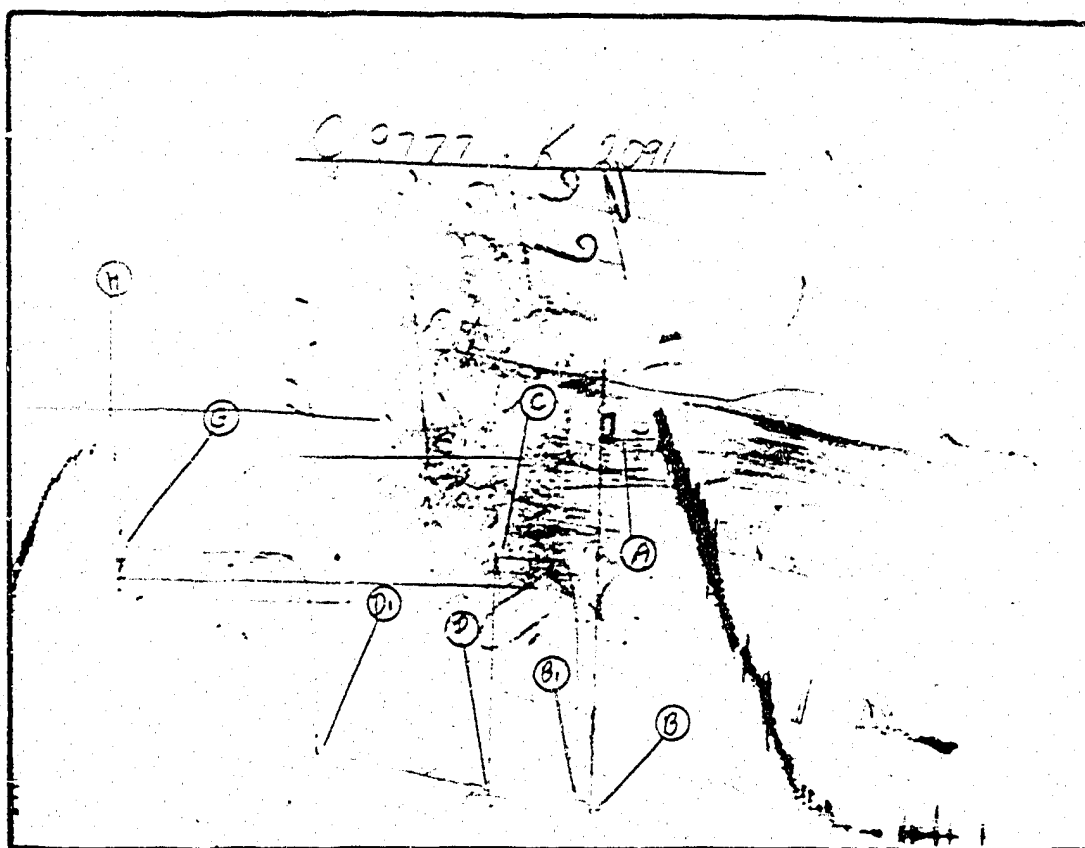
AKI-2091

CAPACITY

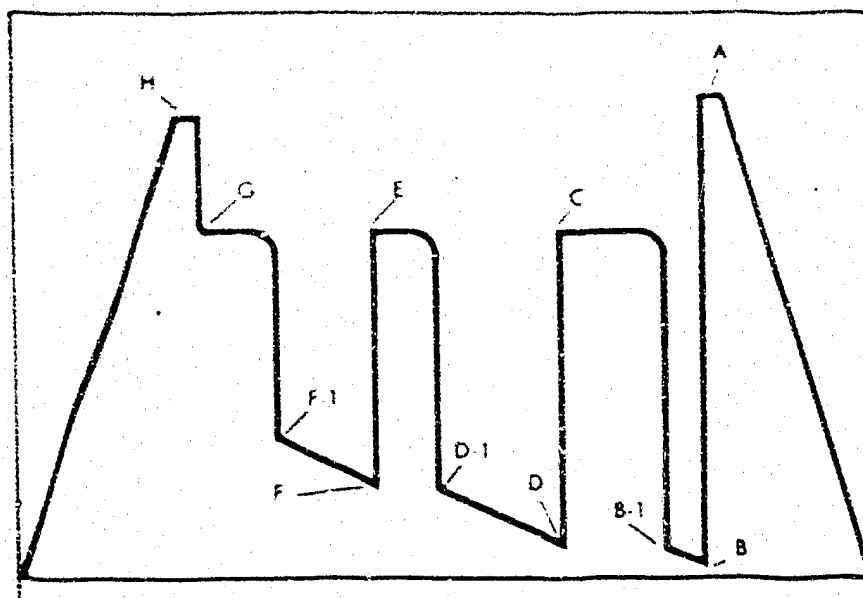
7300

REPORTS
REQUESTED

10



GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- M. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2. Third Flow Pressures
- G, Final Shut-In
- M, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

FIELD
REPORT NO

C-9777

RECORDER NO

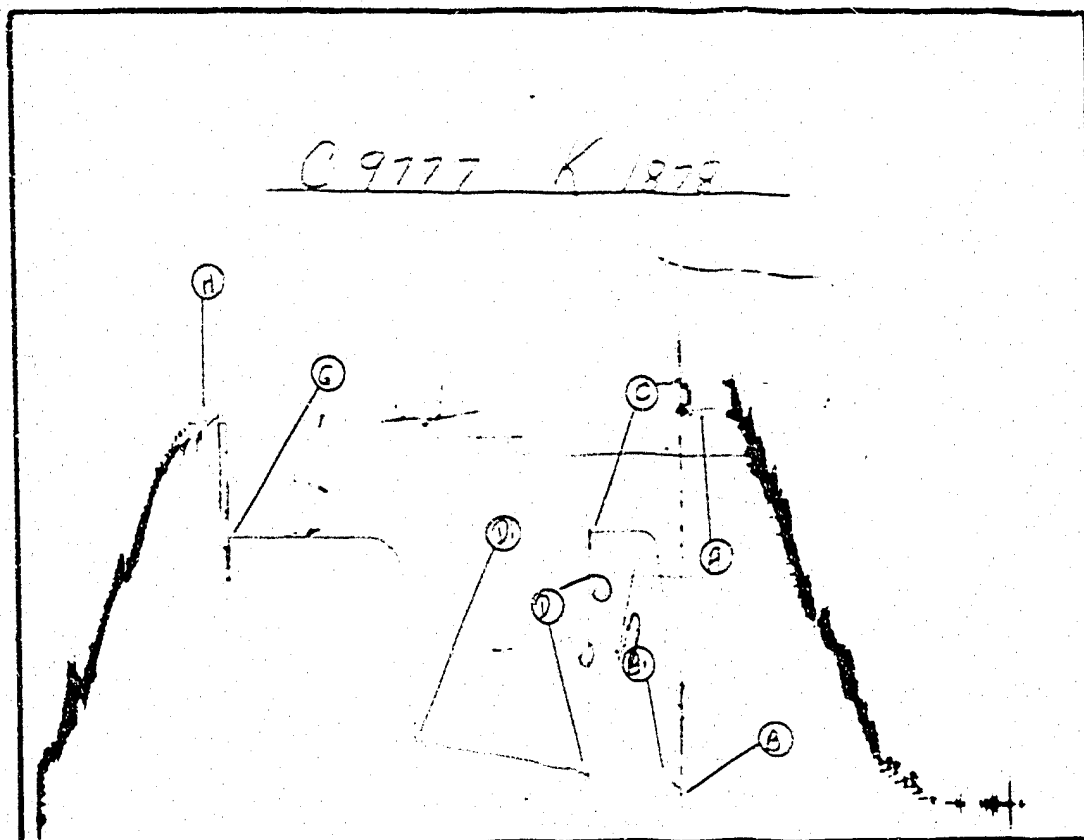
AK1-1878

CAPACITY

7300

REPORTS
REQUESTED

10





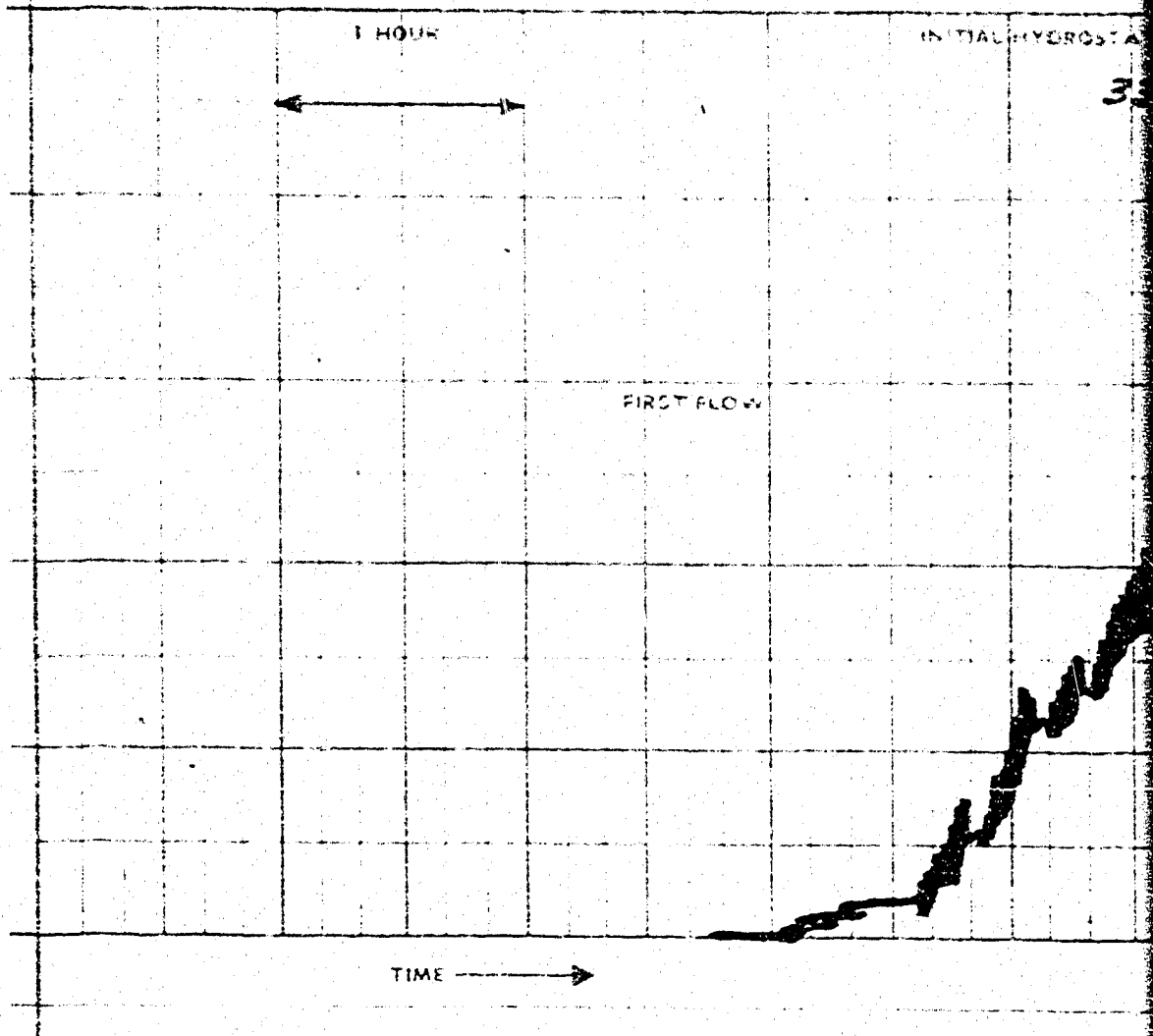
Field Report No. E-9776

Instrument
Number AKI-1878

Capacity 7300 psi

Depth 6462 ft

To continue is facing of the original chart



INITIAL HYDROSTATIC

FINAL HYDROSTATIC

3355 #

INITIAL SHUT IN

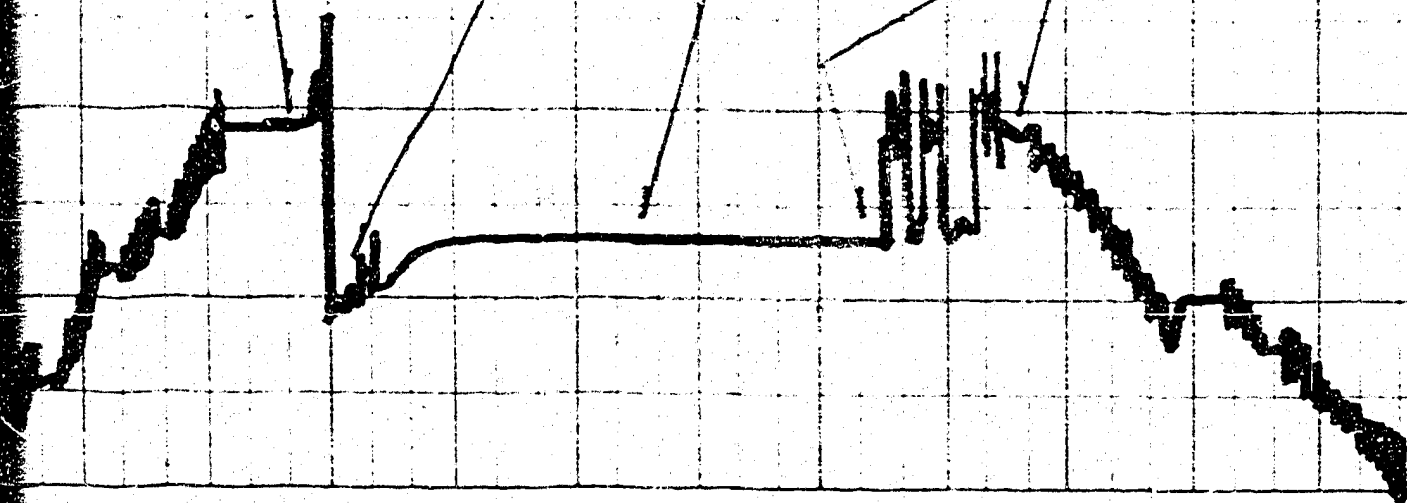
SECOND FLOW

1553 # 2276 #

FINAL SHUT IN

3327 #

2276 #



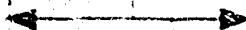
FINAL HYDROSTATIC

3327 *

FINAL SHUT IN

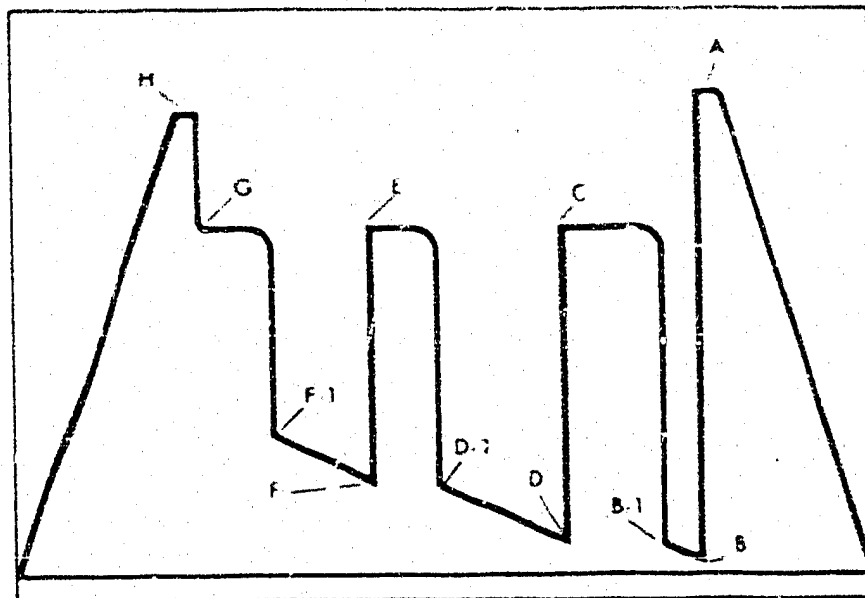
2276 *

1 HOUR



[illegible]

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2, Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

FIELD
REPORT NO.

C-9776

RECORDER NO.

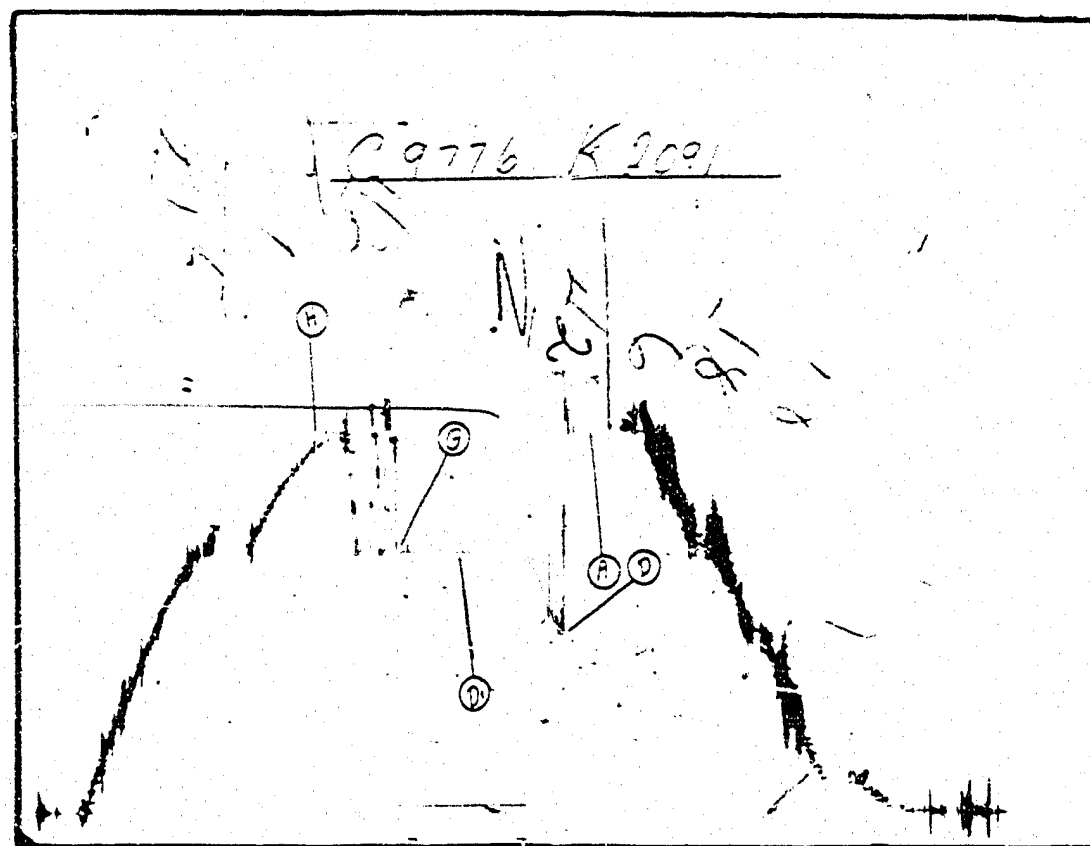
AK1-2091

CAPACITY

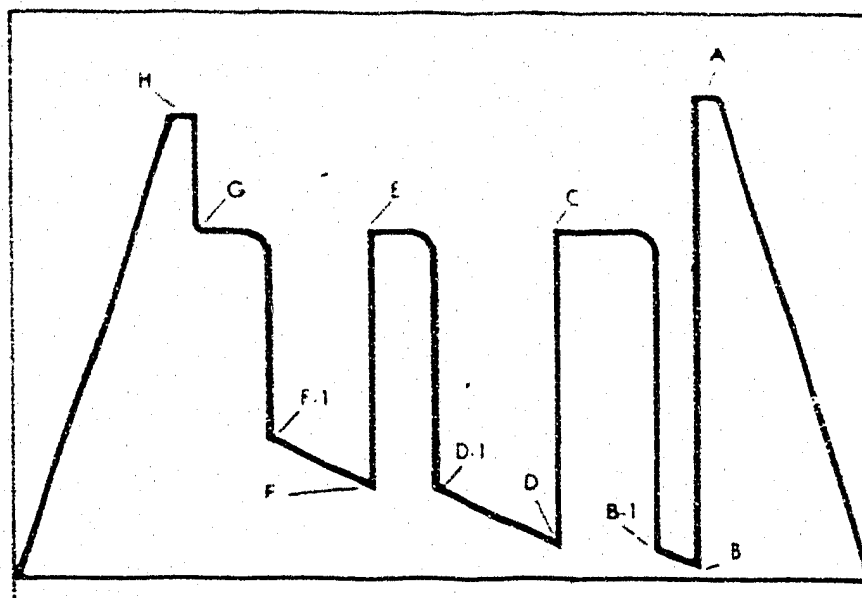
7300

REPORTS
REQUESTED

10



GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



- A. Initial Hyd. Mud
- B. First Flow
- C. Initial Shut-In
- D. Second Flow
- E. Second Shut-In
- F. Third Flow
- G. Final Shut-In
- H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

- A-1, A-2, A-3, etc. Initial Hyd. Pressures
- B, B-1, Initial Flow Pressures
- C, Initial Shut-In
- D-1, D-2, D-3, etc. Second Flow Pressures
- E, Second Shut-In
- F, F-1, F-2 Third Flow Pressures
- G, Final Shut-In
- H, Final Hyd. Pressures
- Z — Special pressure points such as pumping pressures recorded for formation breakdown.

FIELD
REPORT NO

C-9776

RECORDER NO

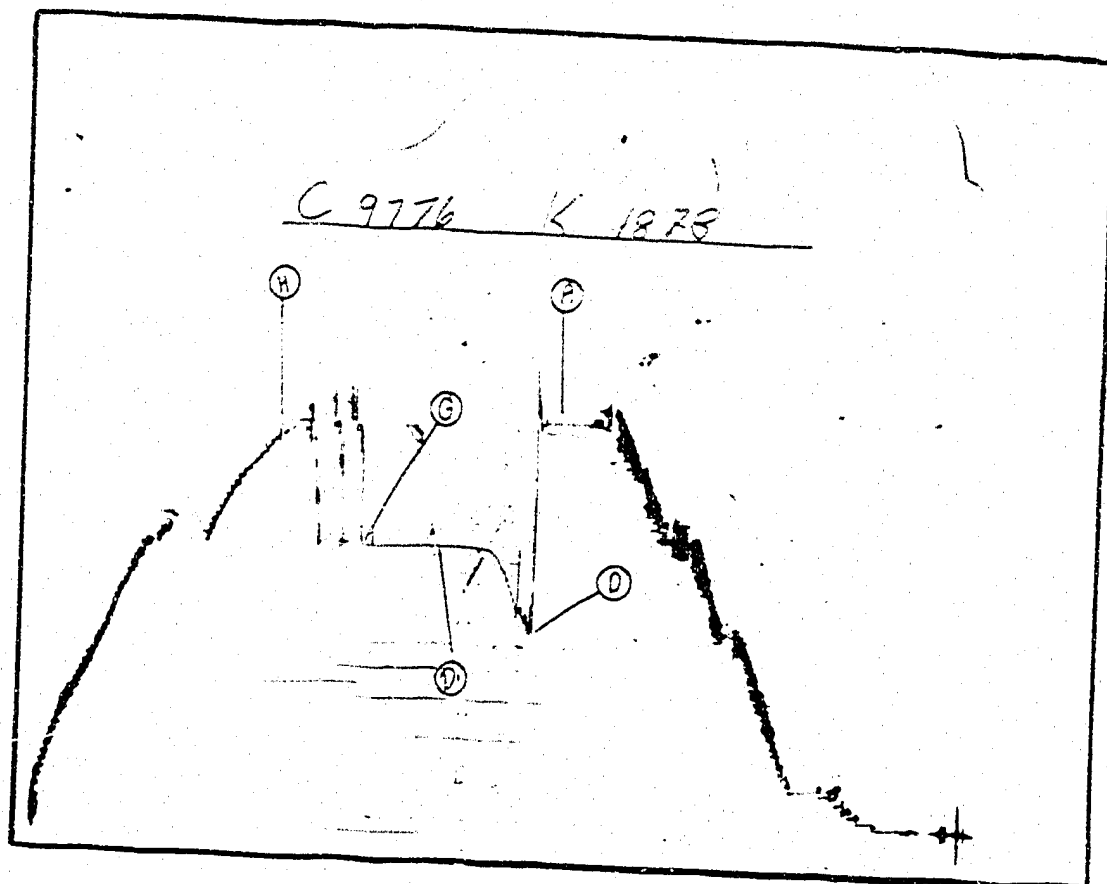
AK1-1878

CAPACITY

7300

REPORTS
REQUESTED

10



UNION OIL COMPANY OF CANADA LIMITED

BIT RECORD

Field Wildcat District Northwest Territories
Tranor Lake
 Contractor Bawden Rig 19 Well Union Pan Am
Tranor E-35
 Date Drilling Started Dec. 20 Completed Jan. 26
 2:00 p.m. 8:00 p.m.

Bit No.	Make	Type	Size	Depth From	Depth To	Foot-age	Bit hrs	Ser. No.	Remarks
1A	H.W.	OSC-3	13-3/4	0	65	65	10-1/2		
2A	SEC.	S-3	13-3/4	65	330	265	20-1/2		
3A	H.W.	OSC-3	13-3/4	330	808	478	15		surf. hole
1	SEC	S3TJ	8-3/4	808	2061	1253	16-1/4	906583	
2	SEC	S3TJ	8-3/4	2061	2833	772	14	902153	
3	SEC	S3TJ	8-3/4	2833	2914	81	6	997390	
4	SEC	S4TJ	8-3/4	2914	3340	426	14	992920	
5	SEC	S4TJ	8-3/4	3340	3712	372	22-1/4	904435	
6	SEC	S4TJ	8-3/4	3712	3735	23	1-1/4	904434	fishing
7	H.W.	OSCJ	8-3/4	3735	3907	172	19	80753	
8	H.W.	OSCJ	8-3/4	3907	4016	109	12	80811	
9	SEC	S3TJ	8-3/4	4016	4308	292	12-3/4	999416	
10	SEC	S3TJ	8-3/4	4308	4747	439	18-1/2	906581	
11	SEC	S3TJ	8-3/4	4747	4973	226	13	997393	
12	H.W.	OSCIG	8-3/4	4973	5287	314	14	68643	
13	SEC	S4TJ	8-3/4	5287	5600	313	15	999322	
14	SEC	S4TJ	8-3/4	5600	5890	290	14-1/2	906746	
15	SEC	S4TJ	8-3/4	5890	6060	170	20-1/2	906751	
16	SEC	M4N	8-3/4	6060	6174	114	10-1/2	905323	
17	SEC	H7GJ	8-3/4	6174	6280	106	16-1/4	906180	
18	SEC	H7GJ	8-3/4	6280	6418	138	17-1/4	906167	
19	SEC	H7G	8-3/4	6418	6497	79	8	906175	pul to test
20	H.W.	W7J	8-3/4	6497	6646	149	15-1/2	79863	" "
21	SEC	M4LG	8-3/4	6646	6779	133	14-1/4	37402	
22	SEC	M4LGJ	8-3/4	6779	6858	79	12-1/2	37370	
23	H.W.	W7J	8-3/4	6858	6952	94	14-3/4	82141	
24	H.W.	W7J	8-3/4	6952	7052	100	18-1/2	82147	
25	H.W.	H7UGJ	8-3/4	7052	7137	83	18-3/4	998300	
26	REED	YHG	8-3/4	7137	7220	83	16	EDGI50	
27	H.W.	W7R2	8-3/4	7220	7288	68	11-1/2	76630	

UNION OIL COMPANY OF CANADA LIMITED

MUD RECORD

WELL: Union Pan Am Trainor E-35

LOCATION: Union E - Sec. 35, 60° 20' N., 120° 15' W.

Date	Depth	VIS	WT	WL	FC	PH	ADDITIVES
Dec. 21	130						Gel 2,000#,
22	543	40	9.0				Lime 100#, Gel 5000#, sawdust 5 sx
23	808	70	9.0				Gel 2800#, Caustic 50#
24	808		9.0				Gel 100#, spersene 300#, cromex 150#, caustic 100# D.D. 5 gal.
25	1970	28	9.2	7.2	2/32	9.5	Gel 100#, spersene 750#, cromex 300#, caustic 250#, D.D. 10 gal. sapp. 100#
26	2833	28	9.6	8.4	2/32	9.5	spersene 450#, cromex 225#, caustic 150#, D.D. 10 gal.
27	3057	28	9.5	11.8	2/32	9.5	Spersene 1350#, Cromex 675#, caustic 450#, D.D. 20 gal.
28	3518	29	9.5	13.4	2/32	11.0	Spersene 1550#, cromex 750#, caustic 300#, D.D. 15 gal. gel 1300#.
29	3725	30	9.6	12.0	2/32	10.0	Spersene 400#, cromex 300#, caustic 200#, D.D. 5 gal. gel 2000#.

Date	Depth	VIS	WT	WL	FC	PH	Additives
Dec. 30	3735	65	8.9	9.2	2/32	9.2	Gel 13100 #, caustic 200#, cromex 800#, spersene 1600#
31	3735	120	9.4	9.2	2/32	9.0	Gel 12600#, caustic 150#, Diesel 600 gal. high vis 150# D.D. 10 gal.
Jan. 1	3735	92	9.4	7.6	2/32	9.5	Spersene 250#
2	3827	65	9.5	5.8	2/32	9.5	Spersene 600#, cromex 300#, caustic 100#, D. D. 5 gal., Diesel 25 bbl, Gel 200#.
3	3946	68	9.6	5.4	2/32	11.0	Gel 1000#, spersene 600#, cromex 400#, caustic 200#, Diesel 25 bbls.
4	4038	58	9.6	5.4	2/32	9.5	Gel 600#, spersene 100#, caustic 100#, cromex 50#
5	4364	58	9.7	5.0	2/32	9.5	Gel 1400#, spersene 400#, cromex 200#, D.D. 5 gal.
6	4747	56	9.7	4.8	2/32	9.5	Gel 6000#, spersene 650#, caustic 300#, CMC 200#
7	4973	50	9.7	5.4	2/32	9.5	Gel 5400#, spersene 850#, caustic 200#, CMC 250#
8	5225	50	9.6	5.6	2/32	9.5	Gel 4500#, spersene 700#, caustic 200#, driscose 50#, CMC 50#.

Date	Depth	VIS	WT	WL	FC	PH	Additives
Jan. 9	5420	48	9.6	6.2	2/32	9.0	Gel 2900#, oil 50 bbls.
10	5600	92	9.7	4.8	2/32	9.0	Gel 5000#, hi vis 50# caustic 100#
11	5890	105	9.9	4.8	2/32	10.5	Gel, 2500#, spersene 250#, caustic 200#, driscose 50#.
12	6045	100	10.0	5.1	2/32	9.5	Gel 4600#, caustic 200# CMC 100#.
13	6135	142	10.0	4.2	2/32	9.5	Gel 3700#, CMC 125#, caustic 200#, spersene 400#.
14	6237	130	9.9	4.4	2/32	9.5	Gel 3900#, spersene 550#, caustic 300#, CMC 125#
15	6339	128	10.0	4.2	2/32	9.5	Gel 1900#, spersene 250#, caustic 50#, CMC 75#.
16	6450	145	10.0	4.8	2/32	9.5	Gel, 6600#, spersene 400#, CMC 25#, caustic 500#.
17	6497	135	10.0	4.4	2/32	10.0	nil
18	6563	135	10.0	4.2	2/32	9.5	Gel 2900#, spersene 250#, caustic 200#, CMC 50#.
19	6646	132	10.0	4.6	2/32	9.5	Gel 2200#
20	6728	152	9.8	5.0	2/32	9.5	Gel 7600#, spersene 450#, caustic 400#, CMC 100#.
21	6818	150	9.7	5.8	2/32	9.5	Spersene 300#, CMC 150#, fiberseal 4 sx., celoseal 4 sx, gel 7600#, caustic 200# sawdust 10sx.

Date	Depth	VIS	WT	WL	FC	PH	Additives
Jan. 22	6919	161	9.7	4.6	2/32	10.0	CMC 150#, spersene 400# soda ASH 600#, gel 2600#, caustic 150#.
23	7009	200	9.6	4.8	2/32	9.5	Gel 2200#, caustic 50#, persene 200# CMC 100#
24	7066	153	9.6	5.6	2/32	9.5	Gel 1800#, persene 800#, soda ash 400#
25	7136	200	9.5	6.0	2/32	9.5	Gel 2000#, persene 1050#, caustic 950#, soda ash 900#, CMC 50#
26	7220	155	9.5	6.6	2/32	9.5	Gel 600#, caustic 250#, CMC 75#, soda ash 1000#
27	7288	200	9.4	6.2	2/32	10.0	Gel 3800#, caustic 250#, CMC 150#, soda ash 600#, persene 800#

DEVIATION SURVEYS

Depth	Deviation	Depth	Deviation
75	1/4°	4016	1-1/4°
130	1/2°	4300	1-1/2°
220	1°	4620	1-1/4°
250	7/8°	4747	1-1/4°
340	7/8°	4973	1°
440	7/8°	5287	2°
540	1°	5600	2-1/2°
630	1/4°	5890	3-1/4°
730	1/2°	6060	3-3/4°
808	1/2°	6174	3-1/2°
1180	1/2°	6280	3-1/4°
1430	1/4°	6418	2-1/2°
1680	1/2°	6497	2-1/2°
1930	1°	6646	2-1/4°
2060	1-1/2°	6779	1-1/2°
2310	1°	6850	2-1/2°
2600	1-1/2°	6952	1-3/4°
2833	3/4°	7052	1-1/4°
3340	3/4°	7134	3/4°
3712	1°	7220	1-1/4°
3907	1-1/4°	7268	1/2°

SECTION III - (Cont'd)

Abandonment Plugs:

Plug No. 1. 7100-7140 w/84 sxs.
CIP 10:45 A.M. January 28/67. No felt.

Plug No. 2. 6700-6810 w/170 sxs. plus 1% CaCl₂.
CIP 11:30 A.M. January 28/67. Felt at 6875'.

Plug No. 3. 6100-Up the hole, w/115 sxs.
CIP 3:45 A.M. January 29/67. No felt.

Plug No. 4. 660-550 w/70 sxs plus 2% CaCl₂.
CIP 9:30 P.M. January 29/67. Felt at 530'.

Cut surface casing 3' below ground.
Placed 5 sack plug.

Welded on plate.

Placed 5 sacks in each of rathole and mousehole.

Lost Circulation Zones: (6606 - 6750'
(6779 - 6818'

Report of Blowouts: Nil.

SECTION IV - Logs

Logs run January 27, 1967.

Dual Induction Laterolog

2" scale - 7289 - 808

5" scale - 7289 - 4100

Borehole Sonic with Gamma Caliper

2" Scale - 7288 - 808

5" Scale - 7288 - 808

Microlog Caliper

5" Scale ~~4426-4170~~, 7292-⁵⁸⁸²~~5792~~
4500-4120

Density Log

2" Scale 7292 - 5800

5" Scale 7292 - 5800

Geophysical Log

7288 - 808

SECTION V

Analysis - Water Analysis

CEH-2-1115	6462 - 6497'	DST #1	Above tool
CEH-2-1115	6646 - 6616'	DST #2	Top of tool



CORE LABORATORIES CANADA LTD.
PETROLEUM RESEARCH & ENGINEERING
EDMONTON CALGARY REGINA
WATER ANALYSIS



File CR-2-1115

Company Union Oil Company of Canada Limited
Well Name Union Pen Am Trainer E-35 Sample No. 1
Formation 120 22' 29.00" WL Depth 6462' - 6467'
Location 60 22' 45.98" NL Field Wildcat Province North West Territories
Date Sampled Jan. 19, 1967 Date Analyzed Jan. 26, 1967 Analyst JK
Sampled From DST No. 1 (above tool) By
Recovery Elevation 2437 K.B.

Constituents:

1. Total Solids 156,429 mg/liter 2. pH 6.09 3. Sp.Gr. 1.1218 @60°F.
4. Resistivity 0.052 Ohm-meters @ 72 °F 5. H₂S Absent

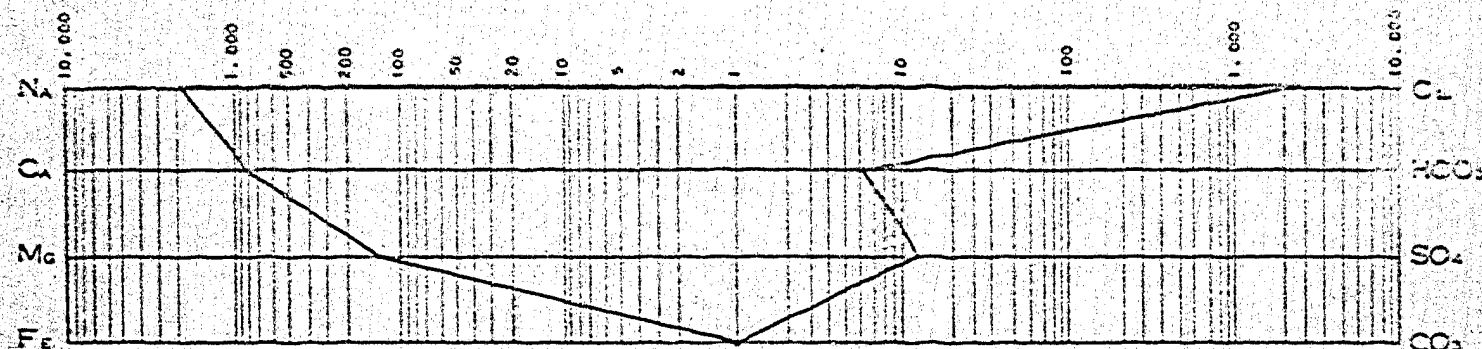
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	BA	Cl	HCO ₃	SO ₄	CO ₃	OH
45,071	16,118	1,789	Absent	Absent	102,515	376	560	Absent	Absent

MEQ PER LITER

1959.6	804.2	145.4	Absent	Absent	2890.9	6.2	12.1	Absent	Absent
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LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.
PETROLEUM RESEARCH ENGINEERS LTD.
EDMONTON CALGARY REGINA
WATER ANALYSIS

File CM-7-1115

Company Union Oil Company of Canada Limited
 Well Name Union Pan Am Trainor E-35 Sample No. 2
 Formation 120 22' 29.00" WI Depth 6616' - 6645'
 Location 60 22' 45.58" N Field Wildcat Province North West Territories
 Date Sampled Jan. 12, 1967 Date Analyzed Jan. 16, 1967 Analyst JK
 Sampled From DST No. 2 (top of tool) By _____
 Recovery _____ Elevation _____

Constituents:

1. Total Solids 163,062 mg/liter 2. pH 6.11 3. Sp.Gr. 1.1192 @60°F.
 4. Resistivity 0.049 Ohm-meters @ 75 °F 5. H₂S Present

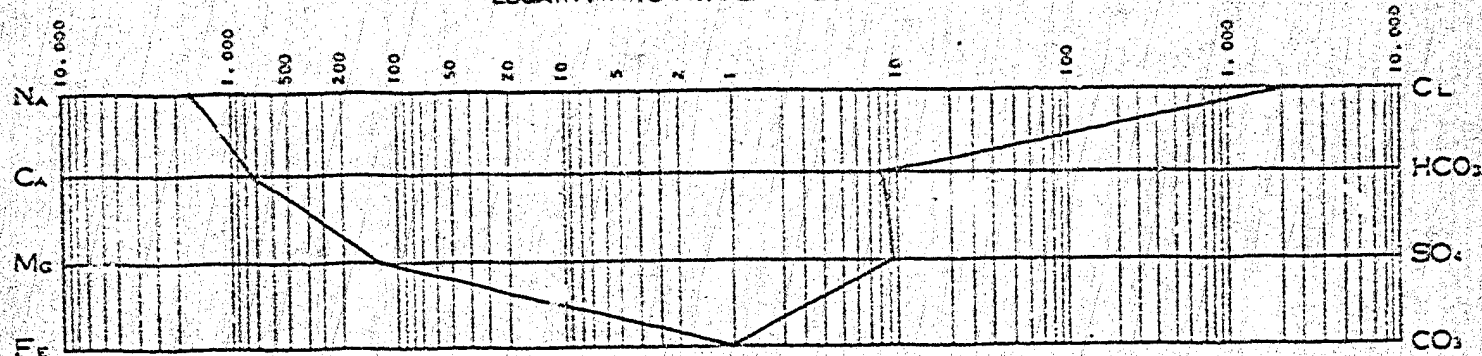
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba	CL	HCO ₃	SO ₄	CO ₃	OH
44,339	15,747	1,641	Absent	Absent	100,392	503	440		

MEQ PER LITER

1927.8	785.8	134.9	Absent	Absent	2831.1	8.2	9.2		
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LOGARITHMIC PATTERN MEQ PER LITER



UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainor E-35

DRILLING REPORT

(FIELD)
N.W.T.

(PROVINCE)

Bawden Rig 19

(TOOLS)

January 30, 1967

(PERIOD ENDING)

9-5/8" @ 808 w/650 sxs

LSD. SEC. TWR. FCE. W. M.

NO. TOOLS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
					(Note Name of Instrument)		
NAME:				Union Pan Am Trainor E-35			
LOCATION:				Province: N.W.T.			
				Shot Point No. 300, Line 13, 1960 Exploration Cons. Shot for Pan Am.			
				Lat. 60.23916° N. Long. 120.37472° W.			
				Permit No.: 2697			
				Drilling Authority No.: 236			
ELEVATIONS:				Ground: 2420' Est.			
				KB: 2436.50' Est.			
				KB to CF: 1643			
				KB to Grnd.: 16.50'			
SPOOLED:				Dec. 20, 1966 at 2:00 pm.			
COMPLETED DRING.:				Jan. 26, 1967 at 8:00 pm	37 days	6 hours	
RIG RELEASED:				Jan. 30, 1967 at 4:00 pm	41 days	2 hours	
DEPTHS:				TD: 7292 Driller: 7288	E-Log in Pre-Cambrian Formation		
STATUS:				Dry and abandoned.			
CASING:				9-5/8" C 808' w/650 sxs Cement plus 3% CaCl ₂ .			
DRILLING FLUID:				Gel-Chemical, Ferro chrome lignosulfonate maintained with chromex until after the Fort Simpson shale was penetrated. Desilter did not work satisfactorily and mud weights below 9.5#/gal. could not be maintained.			

Cecil E. Smith
C. Smith

DISTRICT ENGINEER

UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainor E-35

DRILLING REPORT

(FIELD)
N. W. T.

Bawden Rig 19

(PROVINCE)

(TOOLS)

January 30, 1967

LSD. SEC TWR RGE W M

(PERIOD ENDING)

9-5/8" @ 808 w/650 sxs

NO. TOUAS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
NAME:				Union Pan Am Trainor E-35		(Note Name of Instrument)	
LOCATION:				Province: N.W.T.			
				Shot Point No. 300, Line 13, 1960 Exploration Cons. Shot for Pan Am.			
				Lat. 60.23916° N. Long. 120.37472° W.			
				Permit No.: 2697			
				Drilling Authority No.: 238			
ELEVATIONS:				Ground: 2420' Est.			
				KB: 2436.50' Est.			
				KB to CF: 1643			
				KB to Grnd.: 16.50'			
SPUDDED:				Dec. 20, 1966 at 2:00 pm.			
COMPLETED DRILNG.:				Jan. 26, 1967 at 8:00 pm		37 days 6 hours	
RIG RELEASED:				Jan. 30, 1967 at 4:00 pm		41 days 2 hours	
DEPTHS:				TD: 7292 Driller: 7288		E-Log in Pre-Cambrian Formation	
STATUS:				Dry and abandoned.			
CASING:				9-5/8" C 808' w/650 sxs Cement plus 3% CaCl2.			
DRILLING FLUID:				Gel-Chemical, Ferro chrome lignosulfonate maintained with chromex until after the Fort Simpson shale was penetrated. Desilter did not work satisfactorily and mud weights below 9.5#/gal. could not be maintained.			

Cecil E. Smith
C. Smith

DISTRICT ENGINEER

DRILLING REPORT

WELL NO. Trainor E-35

(FIELD)
N.W.T.
(PROVINCE)

Bawden Rig 19

(TOOLS)

January 30, 1967

(PERIOD ENDING)

4-5/8" @ 805 w/600 sxs.

TOOL JOBS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
				(Note type of instrument)			
ABANDONMENT: (Plug Back)				Plug No. 1: 7290-7240 w/30 sxs. CIP: 10:45 am January 28/67.			Not felt.
				Plug No. 2: 6700-6410 w/170 sxs. plus 2% CaCl2. CIP: 11:30 am January 28/67.			Felt at 6375'.
				Plug No. 3: 6100-Up the hole w/1.5 sxs. CIP: 3:45 am January 29/67.			Not felt.
				Plug No. 4: 660-560 w/70 sxs. plus 2% CaCl2. CIP: 9:30 pm January 29/67.			Felt at 530'.
				Cut surface casing 3' below ground. Placed 5 sack plug.			
				Welded on plate.			
				Placed 5 sacks in each of rathole and mousehole.			
				Casing Bowl: Newman McEvoy Type 'S'. 900 series slip on w/2-2" Threaded Outlets.			
WELL HEAD							
FORMATION TOPS:				E-Log		Depth	Subsea
				Mississippian		2168	269
				Kotcho		2830	- 393
				Kotcho Shale		3090	- 653
				Utahn		4293	-1856
				Fort Simpson		4337	-1900
				Muskwa		5925	-3488
				Slave Point		6000	-3563
				Sulphur Point		6253	-3816
				Presquile Reef		6480	-4043
				Keg River		6638	-4201
				Chinchaga		7005	-4568
				Red Beds		7170	-4733
				Pre-Cambrian		7256	-4819
				TD		7290	-4853
CORING:				Nil.			

DISTRICT ENGINEER

WELL NO. E-35

DRILLING REPORT

(FIELD)

Bawden Rig 19

(PROVINCE)

(TOOLS)

LOG SEC TWR ROZ W M

January 30, 1967

(PERIOD ENDING)

9-5/8" @ 505 W.P.S.

NO. TOOLS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
(Note Make of Instrument)							
LOGGING:				By Schlumberger. Dual Induction-Laterolog Borehole Compensated Sonic Formation Density Log Microlog Caliper			7289- 808 7288- 808 7292-5800 7292- ~~5472~~ 4500-4120
				VELOCITY SURVEY:	By Century Geophysical.		
FORMATION TESTS:				By: Johnston with conventional tool. DST No. 1: 6497-6462, Presquille form. anchor. TD: 6497'. I Puff: 10, ISI: 65. Blow: Good blow on preflow. No blow on main flow. Tool Plugged. Rec. 4260' fluid. 300 ft. muddy saltwater slightly gas cut. 3960' clean saltwater. IHP 3369, ISIP 2300, IFP 1539, FHP 3332. DST No. 2: 6646-6616, Presquille form. anchor. TD: 6646'. I Puff: 10, ISIP: 60, VO: 120, FSI: 130, Reset Nil Times. Blow: Fair becoming weak to faint at end of flow period. Rec. 1180' fluid, 300 ft. muddy saltwater slightly gas cut. 880' clean saltwater slightly gas cut. IHP: 3425, ISIP: 2337, IFP: 286, FFP: 607, FSIP: 2318, FHP: 1260.			
DRILLING CONTRACTOR:				Peter Bawden Drilling (1964) Ltd. Rig No. 19. Emsco GB500 drawworks with 133' Oilwell mast. Drawworks powered by 2 - GM Series 6-71 Model 12103 Twin diesel engines rated at 278 HP each. Pumps: No. 1: Oilwell Model 218P 7-1/4 x 18 powered by Compound. No. 2: Gardner-Denver FK-FXK 7-1/4x powered by G.M. Series 6-71 Model 12103.			
SURVEYED BY:				E.C.I. Geophysical Shot Point #300.			
ROADS & LOCATION:				Tompkins Construction Ltd. Cleared up Simpson Trail and East along the B.C. - N.W.T. Boundary. Contractor:			

DISTRICT ENGINEER

WELL NO. Trainer E-35

DRILLING REPORT

(FIELD)
N.W.T.
(PROVINCE)

Bawden Rig 19

(TOOLS)

LOG. SEC. TWR. ROZ. W. M.

January 30, 1967

(PERIOD ENDING)

NO. TURNS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
WATER:					(Note Name of Instrument)		
				Greg Holdings Ltd. hauled from small lake approximately one mile from the location.			
				Ran and cemented 26 jnts. 812' of 9-5/8" 32.30# New Mannesmann smls. 8 rd. ST&C casing at 806' KB with 650 sxs Normal cement, plus 3% CaCl2, mixed to 15# slurry.			
				Preceded cement with 10 bbls. water.			
				Used top and bottom rubber plugs.			
				Displaced with 71 bbls. water.			
				Returns: Est. 40 bbls.			
				CIP: 8:00 am Dec. 23/66. Cementing by Halliburton.			
				Detail:			
				Baker Baffle Collar and Baker Guide Shoe			2.86
			26 jnts. 9-5/8", 32.30#, H-40 casing			809.25	
			Total			812.11	
			Up above KB:			4.00	
			Landed Depth:			808.11	
			Centralizers at 797' and 772'.				
			Baffle Collar at 783'.				

DISTRICT ENGINEER

WELL NO. T-1100 E-35

DRILLING REPORT

(FIELD)

(PROVINCE)

(TOOLS)

LOG DEC TWT HSE W M

(PERIOD ENDING)

NO. LOGS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1966						
							Spudded: 2:00 pm Dec. 21, 1966 with 13-3/4" bit.
	12/21	0	40	Surface			
	12/21	40	100	Surface	75	1/2	Drilling in boulders with 13-3/4" bit.
					130	1/2	
					220	1	
					250	7/8	
	12/22	330	808	Surface	340	7/8	Drilling 13-3/4" bit.
					440	7/8	
					540	1	
					630	1 1/4	
					730	1/2	
					808	1/2	Rigging to run casing.
	12/23				808		Ran 26 jnts. 9-5/8" to 808' w/560 sxs plus 3% CaCl ₂ . Plug down 8:00 am. WOC.
	12/24	808	1495		1180	1/2	Drilling 8-3/4" hole.
					1430	1/4	
	12/25	1495	2547		1680	1/2	Drilling 8-3/4" hole.
					1930	1	
					2060	1-1/2	
					2310		
	12/26	2547	2914		2600	1-1/8	Drilling 8-3/4" hole. Pulling tight.
					2835	3/4	
	12/27	2914	3393		3340	3/4	Drilling 8-3/4" hole. Tight 3340-3000'.
	12/28	3393	3712		3712	1	Drilling 8-3/4" hole. Tight hole.

DISTRICT ENGINEER

WELL NO. Trainer E-35

DRILLING REPORT

(FIELD)

N.W.T.

(PROVINCE)

(STOCK)

LOG SEC TWP RGE

(PERIOD ENDING)

NO TURNS	DATE	DEPTHS		FORMATION	INDICATOR		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1966						
	12/29	3712	3735				Drilling 8-3/4" hole. Cleaned 150' to bottom of hole. washed out. Stack 28' 50" to bottom. Angular velocity 100 min. Worked pipe to 60' on bottom, could not break circ. Fed 60-80 bbls. into shale below bit.
	12/30	3735					Tight hole 2100-1600' on trip out w. free collars. Sec. 100' point and pipe at 1900'. Backed off at 3514. 1st 100' fish in hole.
	12/31	3735					Cleaned out bridge 3470-3500. Ran in screw into fish. Jarred 2-1/2 hours. Pulled out with fish.
	1/1/67	3735	3760				Recovered fish. Cleaned to bottom. Drilling 8-3/4" hole.
	1/2/67	3760	3907		3907	1-1/4	Drilling 8-3/4" hole. Hole tight, 300' bottom & @ 2100'.
	1/3/67	3907	4016		4016	1-1/4	Drilling 8-3/4" hole. Hole tight, 3400'.
	1/4/67	4016	4308		4300	1-1/2	Drilling 8-3/4" hole.
	1/5/67	4308	4720		4620	1-1/4	Drilling 8-3/4" hole. Cleaned 60' to bottom.
	1/6/67	4720	4900		4747	1-1/4	Drilling 8-3/4" hole. Cleaned 450' to bottom. Hole tight.

DISTRICT ENGINEER

UNION OIL COMPANY OF CANADA LIMITED

CASING RECORD

WELL NO. Trainer E-35

DRILLING REPORT

(FIELD)
N.W.T.
(PROVINCE)

(TOOLS)

L.D. SEC TWR AGE W M

(PERIOD ENDING)

NO. TOURS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1967				(Note: None of Destroyed)		
	1/7	4900	4973				Drilling 8-3/4" hole. Tight on connections. Cleaned out bottom.
	1/8	4973	5225		4973	1	Drilling 8-3/4" hole. Hole tight.
	1/9	5225	5420		5267	2	Drilling 8-3/4" hole. Hole tight.
	1/10	5420	5600		5600	2-1/2	Drilling 8-3/4" hole. Hole tight at 4380'.
	1/11	5600	5890		5890	3-1/4	Drilling 8-3/4" hole. Hole increased viscosity from 50 to 100 sec. Hole staying cleaner.
	1/12	5890	6045				Drilling 8-3/4" hole hole.
	1/13	6045	6135		6060	3-3/4	Drilling 8-3/4" hole. 25' fill on bottom. Hole pulled tight at 6000'.
	1/14	6135	6237		6174	3-1/4	Drilling 8-3/4" hole. 40' bridges on bottom. Hole pulled tight at 6000'.
	1/15	6237	6339		6280	3-1/4	Drilling 8-3/4" hole.
	1/16	6339	6450		6418	2-1/2	Drilling 8-3/4" hole. Tight 200' off bottom. Reamed 40' small bridges on bottom going in.
	1/17	6450	6497	Presquile	6497	2-1/2	Testing (DST NO. 1)
	1/18	6497	6563				Drilling

DISTRICT ENGINEER

WELL NO. Trainer E-35

DRILLING REPORT

(FIELD)

N. W. T.

(PROVINCE)

(TOOLS)

LSD. SEC. TWP. RGE. W. M.

(PERIOD ENDING)

NO. YEARS	DATE	DEPTH		FORMATION	INCLINATION		REMARKS
		FROM	TO		DEPTH	CORRECT ANGLE	
	1967				(Note Name of Instrument)		
	1/19	6563	6646	Presquite	6646	2-1/4	Testing (DST No. 2)
	1/20	6646	6728				Drilling
	1/21	6728	6818		6779	1-1/2	Drilling
	1/22	6818	6919		6850	2-1/2	Drilling
	1/23	6919	7009		6952	1-3/4	Drilling
	1/24	7009	7066		7052	1-1/4	Drilling
	1/25	7066	7137		7134	3/4	Clean out to bottom.
	1/26	7137	7220		7220	1-1/4	Trip for bit.
	1/27	7220	7288	Pre-Cambrian	7288	1/2	Logging.
	1/28		7288	TD -			Circulate to run plugs. Running Plugs and laying down drillpipe.
	1/29		TD			1/2	" " "
	1/30		TD				Rig Released at 4:00 pm.

DISTRICT ENGINEER

DAILY DRILLING REPORT

OPERATOR <i>UNION OIL CO</i>	LOCATION <i>E 35 60 120</i>	LSD. <i>E</i>	SEC. <i>35</i>	TWP. <i>60</i>	RGE. <i>120</i>	W. <i>W.</i>	WELL NAME <i>UNION PAN AM TRAINER LAKE</i>	No. <i>E 35</i>	PROVINCE <i>NWT</i>			
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. <i>19</i>	DRILL PIPE STRING NO. SIZE <i>4 1/2</i>	TOOL JOINT <i>THD. XH</i>	OD <i>E</i>	DRILL PIPE GRADE <i>E</i>	PUMPS No. MANUFACTURER TYPE 1. <i>Outwell 218P</i> 2. <i>GD FKH</i> 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

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
MOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING MOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL 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.	MRS. RUN	MUD RECORD
STANDS	DP	FT.	Drilling or Core Bit No.											TIME
SNGLS.	DP	FT.	TYPE											1st HR.
D.C.	OD	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											VISC.
BIT OR C.B.	FT.	FT. DRILLED												W.L.C.C.
	FT.	FT. REAMED												FLTR. CK.
Kelly Down	FT.	FT. CORED												pH
TOTAL	FT.	CUM. MRS. RUN												SD. CONT.
WT OF STRING	LBS.	CONDITION												MUD & CHEMICALS ADDED
DRILLER														TYPE
WEATHER CONDITIONS														AMT.

NO.	DRILLING ASSEMBLY	BIT 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.	MRS. RUN	MUD RECORD
STANDS	DP	FT.	Drilling or Core Bit No.											TIME
SNGLS.	DP	FT.	TYPE											1st HR.
D.C.	OD	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											VISC.
BIT OR C.B.	FT.	FT. DRILLED												W.L.C.C.
	FT.	FT. REAMED												FLTR. CK.
Kelly Down	FT.	FT. CORED												pH
TOTAL	FT.	CUM. MRS. RUN												SD. CONT.
WT OF STRING	LBS.	CONDITION												MUD & CHEMICALS ADDED
DRILLER														TYPE
WEATHER CONDITIONS														AMT.

NO.	DRILLING ASSEMBLY	BIT 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.	MRS. RUN	MUD RECORD
STANDS	DP	FT.	Drilling or Core Bit No.											TIME
SNGLS.	DP	FT.	TYPE											1st HR.
D.C.	OD	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											VISC.
BIT OR C.B.	FT.	FT. DRILLED												W.L.C.C.
	FT.	FT. REAMED												FLTR. CK.
Kelly Down	FT.	FT. CORED												pH
TOTAL	FT.	CUM. MRS. RUN												SD. CONT.
WT OF STRING	LBS.	CONDITION												MUD & CHEMICALS ADDED
DRILLER														TYPE
WEATHER CONDITIONS														AMT.

DRILLING CREW PAYROLL DATA

WELL <i>UNION PAN AM TRAINER LAKE E 35</i>					
COMPANY <i>UNION OIL CO</i>					
TOOL PUSHER _____ RIG NO. <i>19</i>					
CREW	CODE	NAME	EMPL. No.	HOURS REG O.T.	DIST. CODE
DRILLER	1	<i>G. Crofts</i>	<i>1240</i>	<i>8</i>	<i>1</i>
DRK-MAN	2	<i>G. HILL</i>	<i>3352</i>	<i>8</i>	<i>1</i>
CAT-HEAD	3	<i>G. Henschel</i>	<i>3287</i>	<i>8</i>	<i>1</i>
FLR-MAN	4	<i>G. WALTER</i>	<i>9363</i>	<i>8</i>	<i>1</i>
FLR-MAN	4	<i>J. MAYR</i>	<i>5428</i>	<i>8</i>	<i>1</i>
CREW	CODE	NAME	EMPL. No.	HOURS REG O.T.	DIST. CODE
DRILLER	1	<i>G. Meyer</i>	<i>5788</i>	<i>8</i>	<i>3</i>
DRK-MAN	2	<i>N. Leech</i>	<i>4767</i>	<i>8</i>	<i>3</i>
CAT-HEAD	3				
FLR-MAN	4	<i>R. Swan</i>		<i>8</i>	<i>1</i>
FLR-MAN	4	<i>Jim Thomas</i>	<i>8921</i>	<i>8</i>	<i>1</i>
CREW	CODE	NAME	EMPL. No.	HOURS REG O.T.	DIST. CODE
DRILLER	1	<i>K. VIG</i>	<i>9320</i>	<i>8</i>	<i>4</i>
DRK-MAN	2	<i>G. SZASZ</i>	<i>8801</i>	<i>8</i>	<i>4</i>
CAT-HEAD	3	<i>R. DUPERRON</i>	<i>1635</i>	<i>8</i>	<i>1</i>
FLR-MAN	4	<i>D. LEONHARDT</i>	<i>4799</i>	<i>8</i>	<i>1</i>
FLR-MAN	4	<i>J. ZAYORHOVSKY</i>		<i>8</i>	<i>4</i>
COOK		<i>O. BERNARDI</i>		<i>19</i>	<i>3</i>
COOK & HLPR.		<i>S. Rea</i>		<i>19</i>	<i>3</i>
CAMP ATTN.					
				TOTAL REG HRS.	TOTAL O.T. HRS.
				TOTAL HOURS	

DAILY DRILLING REPORT

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																			
UNION OIL CO		E	25	63	120	UNION RAN AM TROJAN LAKE		E 3-5	ALABAMA																				
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. & SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	PUMPS		CASING & LINER RECORD	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER																
PETER BAWDEN DRILLING (1964) LTD.		19	4 1/2	TYPE THD. XH		E	1. 2 1/2" 211P 2. 6" 51K			97 32.5	808 Cast	6 1/2" 2 1/2" 211P																	
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.		MRS. 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	
TRIPPING		D.C. OD		FT. NOZZ. SIZE																								VISC.	
RIG MAINTENANCE		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
RIG REPAIRS		STB BODY OD		FT. DEPTH IN																								FLTR. CK.	
HOLE SURVEYS		SUBS OD		FT. DEPTH OUT																								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. MRS. RUN																								TYPE AMT. TYPE AMT.	
WORKING OR STUCK PIPE		WT OF STRING		LBS. CONDITION																									
FISHING		DRILLER		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.		MRS. RUN		MUD RECORD	
CASING		STANDS DP		FT. Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
WAITING ON CEMENT		SNGLS. DP		FT. TYPE																								WEIGHT	
HEADING UP AND DRILLING OUT		D.C. OD		FT. NOZZ. SIZE																								VISC.	
MISCELLANEOUS		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
SUB TOTAL		STB BODY OD		FT. DEPTH IN																								FLTR. CK.	
DAYWORK HOURS		SUBS OD		FT. DEPTH OUT																								pH	
TOTAL HOURS		BIT OR C.B.		FT. FT. DRILLED																								SD. CONT.	
WIRE LINE RECORD		Kelly Down		FT. FT. CORED																								MUD & CHEMICALS ADDED	
REEL NO.		TOTAL		FT. CUM. MRS. RUN																								TYPE AMT. TYPE AMT.	
NO. OF LINES		WT OF STRING		LBS. CONDITION																									
FEET SLIPPED		DRILLER		WEATHER CONDITIONS																									
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.		MRS. RUN		MUD RECORD	
PRESENT LENGTH		STANDS DP		FT. Drilling or Core Bit No.																								TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
TON MI. or TRIPS SINCE LAST CUT		SNGLS. DP		FT. TYPE																								WEIGHT	
CUMULATIVE TON MI. or TRIPS		D.C. OD		FT. NOZZ. SIZE																								VISC.	
NO. OF DAYS FROM SPUD		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
DAYS SINCE LAST ACCT.		STB BODY OD		FT. DEPTH IN																								FLTR. CK.	
DRILLER ACCT. FREE DAYS		SUBS OD		FT. DEPTH OUT																								pH	
MORNING TOUR		BIT OR C.B.		FT. FT. DRILLED																								SD. CONT.	
DAY TOUR		Kelly Down		FT. FT. CORED																								MUD & CHEMICALS ADDED	
EVENING TOUR		TOTAL		FT. CUM. MRS. RUN																								TYPE AMT. TYPE AMT.	
		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.		MRS. 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. NOZZ. SIZE																								VISC.	
		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
		STB BODY OD		FT. DEPTH IN																								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. MRS. RUN																								TYPE AMT. TYPE AMT.	
		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.		MRS. 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. NOZZ. SIZE																								VISC.	
		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
		STB BODY OD		FT. DEPTH IN																								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. MRS. RUN																								TYPE AMT. TYPE AMT.	
		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.		MRS. 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. NOZZ. SIZE																								VISC.	
		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
		STB BODY OD		FT. DEPTH IN																								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. MRS. RUN																								TYPE AMT. TYPE AMT.	
		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.		MRS. 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. NOZZ. SIZE																								VISC.	
		RMR BODY OD		FT. SERIAL No.																								W.L.C.C.	
		STB BODY OD		FT. DEPTH IN																								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. MRS. RUN																								TYPE AMT. TYPE AMT.	
		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.		MRS. 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. NOZZ. SIZE																								VISC.	
		RMR BODY OD																											

DAILY DRILLING REPORT										PROVINCE									
OPERATOR UNION OIL CO										WELL NAME UNION PAN AM TRINOR LAKE									
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.										RIG NO. 19									
OPERATOR'S REPRESENTATIVE Cecil E. Smith										CONTRACTOR'S TOOL PUSHER									
LOCATION E 35 60 120										SEC. E 35									
TWP. 60										RGE. 120									
W. W										PUMPS									
Casing & Liner Record										PUMP PRESS.									
SIZE										WT & GR.									
DEPTH SET										TYPE OF CEMENT									
FROM										TO									
CEMENT USED										OTHER									
No.										MANUFACTURER									
1.										TYPE									
2.										No.									
3.										PUMP No. 1									
										PUMP No. 2									
TIME DISTRIBUTION - HOURS										MUD RECORD									
Morn Day Eve										TIME									
DRILLING										1st HR.									
TRIPPING										3rd HR.									
RIG MAINTENANCE										5th HR.									
RIG REPAIRS										7th									
HOLE SURVEYS										WEIGHT									
CONDITIONING MUD										VISC.									
CONDITIONING HOLE										W.L.C.C.									
Reaming & Cleaning To Bottom										FLTR. CK.									
WORKING OR STUCK PIPE										pH									
FISHING										SD. CONT.									
LOST CIRCULATION										MUD & CHEMICALS ADDED									
CASING										TYPE									
WAITING ON CEMENT										AMT.									
HEADING UP AND DRILLING OUT										TYPE									
MISCELLANEOUS										AJ									
SUB TOTAL																			
DAYWORK HOURS																			
TOTAL HOURS																			
WIRE LINE RECORD										MUD RECORD									
REEL NO.										TIME									
NO. OF LINES										1st HR.									
FEET SLIPPED										3rd HR.									
FEET CUT OFF										5th HR.									
PRESENT LENGTH										7th									
TON MI. or TRIPS SINCE LAST CUT										WEIGHT									
CUMULATIVE TON MI. or TRIPS										VISC.									
NO. OF DAYS FROM SPUD										W.L.C.C.									
CUMULATIVE ROTATING HRS.										FLTR. CK.									
DAYS SINCE LAST ACCNT.										pH									
DRILLER ACCDNT. FREE DAYS										SD. CONT.									
MORNING TOUR										MUD & CHEMICALS ADDED									
DAY TOUR										TYPE									
EVENING TOUR										AMT.									
										TYPE									

WELL						UNION PAN AM TRAINER LAMP E					
COMPANY						UNION OIL CO					
TOOL PUSHER						RIG NO. 19					
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE					
DRILLER	1	G CROFTS	1240	8	8						
DRK MAN	2										
CAT-HEAD	3	G HENSCHL	2287	8	8						
FLR-MAN	4	G WALTER	9363	8	8						
FLR-MAN	4	J MAYR	5428	8	8						
O.T. cleaning up rig											
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE					
DRILLER	1	G. Meyer	5788	8							
DRK-MAN	2	K. Leech	4767	8							
CAT-HEAD	3										
FLR-MAN	4	R. Swan		8							
FLR-MAN	4	Jim Thomas	8121	8							
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE					
DRILLER	1	K. VIG	9220	8							
DRK-MAN	2	G. SASSZ	8801	8	8						
CAT-HEAD	3	R. DUDERBON	1635	8	8						
FLR-MAN	4	D. LEON HARDY	4799	8	8						
FLR-MAN	4	J. ZAYORHOWSKI		8	8						
O.T. MELTING ICE & CLEANING UP RIG											
COOK		O BERNARDO		9	33						
COOKS HELP		S REA		9	3						
CAMP ATTN		H DIX		9							
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS					

DAILY DRILLING REPORT

OPERATOR UNION OIL CO		LOCATION E 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRAILER	No. E 35	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS		CASING & LINER RECORD
OPERATOR'S REPRESENTATIVE Cecil E. Smith		CONTRACTOR'S TOOL PUSHER R. Green		No.		MANUFACTURER	TYPE	SIZE	WT & GR.
				1.		Delaware	218P	9 3/4	32.5
				2.		GD	EXH	808	Conat
				3.					
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
MORNING TOUR		STANDS DP		FT. Drilling or Core Bit No.		Cored or Reamed This Tour		Depth At End of Tour	
DRILLING		SNGLS. DP		FT. TYPE		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	
TRIPPING		D.C. OD		FT. SIZE		7290 TD		WT ON BIT 1000#	
RIG MAINTENANCE		RMR BODY OD		FT. NOZZ. SIZE		DEVIATION RECORD:		PUMP PRESS.	
RIG REPAIRS		STB BODY OD		FT. SERIAL No.		From To Elapsed Time		LINER SIZE	
HOLE SURVEYS		SUBS OD		FT. DEPTH IN		12 130 1 1/2		S.P.M.	
CONDITIONING MUD		BIT OR C.B.		FT. FT. DRILLED		REMARKS		HRS. RUN	
CONDITIONING HOLE		Kelly Down		FT. FT. CORED		12 345 2 1/4			
Reaming & Cleaning To Bottom		TOTAL		FT. CUM. HRS. RUN		4 8 3 1/2			
WORKING OR STUCK PIPE		WT OF STRING		LBS. CONDITION		4 8 3 1/2			
FISHING		DRILLER		WEATHER CONDITIONS		4 8 3 1/2			
LOST CIRCULATION		NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
CASING		STANDS DP		FT. Drilling or Core Bit No.		Cored or Reamed This Tour		Depth At End of Tour	
WAITING ON CEMENT		SNGLS. DP		FT. TYPE		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	
HEADING UP AND DRILLING OUT		D.C. OD		FT. SIZE		8 9 1		WT ON BIT 1000#	
MISCELLANEOUS		RMR BODY OD		FT. NOZZ. SIZE		DEVIATION RECORD:		PUMP PRESS.	
SUB TOTAL		STB BODY OD		FT. SERIAL No.		From To Elapsed Time		LINER SIZE	
DAYWORK HOURS		SUBS OD		FT. DEPTH IN		8 9 1		S.P.M.	
TOTAL HOURS		BIT OR C.B.		FT. FT. DRILLED		REMARKS		HRS. RUN	
		Kelly Down		FT. FT. CORED		8 9 1			
		TOTAL		FT. CUM. HRS. RUN		8 9 1			
		WT OF STRING		LBS. CONDITION		8 9 1			
		DRILLER		WEATHER CONDITIONS		8 9 1			
		NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
		STANDS DP		FT. Drilling or Core Bit No.		Cored or Reamed This Tour		Depth At End of Tour	
		SNGLS. DP		FT. TYPE		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	
		D.C. OD		FT. SIZE		4 5 30 1 1/2		WT ON BIT 1000#	
		RMR BODY OD		FT. NOZZ. SIZE		DEVIATION RECORD:		PUMP PRESS.	
		STB BODY OD		FT. SERIAL No.		From To Elapsed Time		LINER SIZE	
		SUBS OD		FT. DEPTH IN		4 5 30 1 1/2		S.P.M.	
		BIT OR C.B.		FT. FT. DRILLED		REMARKS		HRS. RUN	
		Kelly Down		FT. FT. CORED		4 5 30 1 1/2			
		TOTAL		FT. CUM. HRS. RUN		4 5 30 1 1/2			
		WT OF STRING		LBS. CONDITION		4 5 30 1 1/2			
		DRILLER		WEATHER CONDITIONS		4 5 30 1 1/2			
		NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
		STANDS DP		FT. Drilling or Core Bit No.		Cored or Reamed This Tour		Depth At End of Tour	
		SNGLS. DP		FT. TYPE		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	
		D.C. OD		FT. SIZE		5 20 5 45 1 1/4		WT ON BIT 1000#	
		RMR BODY OD		FT. NOZZ. SIZE		DEVIATION RECORD:		PUMP PRESS.	
		STB BODY OD		FT. SERIAL No.		From To Elapsed Time		LINER SIZE	
		SUBS OD		FT. DEPTH IN		5 20 5 45 1 1/4		S.P.M.	
		BIT OR C.B.		FT. FT. DRILLED		REMARKS		HRS. RUN	
		Kelly Down		FT. FT. CORED		5 20 5 45 1 1/4			
		TOTAL		FT. CUM. HRS. RUN		5 20 5 45 1 1/4			
		WT OF STRING		LBS. CONDITION		5 20 5 45 1 1/4			
		DRILLER		WEATHER CONDITIONS		5 20 5 45 1 1/4			
		NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour	
		STANDS DP		FT. Drilling or Core Bit No.		Cored or Reamed This Tour		Depth At End of Tour	
		SNGLS. DP		FT. TYPE		FORMATION (SHOW CORE RECOVERY)		ROTA-RY R.P.M.	
		D.C. OD		FT. SIZE		5 20 5 45 1 1/4		WT ON BIT 1000#	
		RMR BODY OD		FT. NOZZ. SIZE		DEVIATION RECORD:		PUMP PRESS.	
		STB BODY OD		FT. SERIAL No.		From To Elapsed Time		LINER SIZE	
		SUBS OD		FT. DEPTH IN		5 20 5 45 1 1/4		S.P.M.	
		BIT OR C.B.		FT. FT. DRILLED		REMARKS		HRS. RUN	
		Kelly Down		FT. FT. CORED		5 20 5 45 1 1/4			
		TOTAL		FT. CUM. HRS. RUN		5 20 5 45 1 1/4			
		WT OF STRING		LBS. CONDITION		5 20 5 45 1 1/4			
		DRILLER		WEATHER CONDITIONS		5 20 5 45 1 1/4			

DRILLING CREW PAYROLL DATA

WELL **Union Pan Am Trailer Lake E 35**COMPANY **Union Oil Co**TOOL PUSHER **R. Green** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. Croft	1240	8		
DRK-MAN	2	G. Hill	3252	8		
CAT-HEAD	3	H. Henschel	3287	8		
FLR-MAN	4	G. Walter	9363	8		
FLR-MAN	4	J. Mayr	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	H. Vig	9320	8		
DRK-MAN	2	G. Sars	8801	8		
CAT-HEAD	3	R. DUPERON	1635	8.5		
FLR-MAN	4	D. LEONHARDT	4799	8		
FLR-MAN	4	J. J. O'ROURKE		8.5		

O.T. HELP LAY DOWN PIPE - MORNING TOUR

COOK	COOK'S HLPR.	CAMP ATTN.	TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT

OPERATOR UNION OIL CO		LOCATION E 35 60 120		SEC. E 35		TWP. 60 120		RGE. E 35		W. E 35		WELL NAME UNION PAN AM TRAINER		No. E 35		PROVINCE ALAB	
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. & SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. Quincy 218P 2. FD EXH 3.		CASING & LINER RECORD SIZE WT & GR. FROM TO TYPE OF CEMENT 9 3/4 32.5 808 Cement 65000 30000	DEPTH SET FROM TO 808 65000		CEMENT USED 65000 30000		OTHER			
OPERATOR'S REPRESENTATIVE Cecil E. Smith		CONTRACTOR'S TOOL PUSHER R. Adams															

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																							
				STANDS DP	FT.	Drilling or Core Bit No.	TYPE	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	From	To	Elapsed Time	TIME	1st HR.	3rd HR.	5th HR.	7th HR.																	
DRILLING				1	26725			1200	230	2 1/4	230	245	14	245	245	2	245	245	2	245	245	2	245	245	2	245	245	2	245	245	2	245	245	2	245	245	2	245	245														
TRIPPING				D.C.	OD	FT.	NOZZ. SIZE																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
RIG MAINTENANCE				RMR BODY	OD	FT.	SERIAL No.																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
RIG REPAIRS				STB BODY	OD	FT.	DEPTH IN																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
HOLE SURVEYS				SUBS	OD	FT.	DEPTH OUT																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
CONDITIONING MUD				BIT OR C.B.	FT.	FT. DRILLED	FT. REAMED																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
CONDITIONING HOLE				Kelly Down	2300	FT.	FT. CORED																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
Reaming & Cleaning To Bottom				TOTAL	7290	FT.	CUM. HRS. RUN																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
WORKING OR STUCK PIPE				WT OF STRING	1200	LBS.	CONDITION																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.				
FISHING				DRILLER																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.							
LOST CIRCULATION				WEATHER CONDITIONS																	PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.							
Casing																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
WAITING ON CEMENT																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
HEADING UP AND DRILLING OUT																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
MISCELLANEOUS																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
LAY DOWN																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
SUB TOTAL																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
PICK UP																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
SINGLES DAYWORK HOURS																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
TOTAL HOURS																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
WIRE LINE RECORD																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
REEL NO. 3728																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
NO. OF LINES 8 SIZE 1 1/2																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
FEET SLIPPED 1500																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
FEET CUT OFF 200																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
PRESENT LENGTH 4800																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
TON MI. OF TRIPS SINCE LAST CUT 265																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
CUMULATIVE TON MI. OF TRIPS 3069																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
NO. OF DAYS FROM SPUD 40																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
CUMULATIVE ROTATING HRS. 396																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
DAYS SINCE LAST ACCT. 22																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
DRILLER ACCT. FREE DAYS																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
MORNING TOUR 22																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
DAY TOUR 212																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								
EVENING TOUR 87																				PUMP No. 1 500 5/4					PUMP No. 2 6					W.L.C.C.					FLTR. CK.					pH					SD. CONT.								

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINER** HOLE **E 35**COMPANY **UNION OIL CO**TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. HEMMISCH	3281	8		
FLR-MAN	4	G. WALTER	9363	8		
FLR-MAN	4	J. MAYR	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Mc. Richmond	7600	8		
FLR-MAN	4	R. Swann		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. VIG	9320	8		
DRK-MAN	2	G. S. P. S. S.	2801	8		
CAT-HEAD	3	R. D. DUNCAN	1635	8		
FLR-MAN	4	D. LEONHARDT	4777	8		
FLR-MAN	4	J. ZAYOR (KOWISH)		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
COOK		O. BERNARDO		9		
COOK'S HLPR.		S. R. C.		9		
CAMP ATTN.		H. DIX		9		

DAILY DRILLING REPORT

OPERATOR UNION OIL CO	LOCATION E 35	SEC. 25	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRAINER LANE E 35	No. F 35	PROVINCE N.W.T			
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. O. J. 218 P 2. 62 FLK 3.	CASING & LINER RECORD 9 3/4 32.5 808 Const 6500 22.60	DEPTH SET FROM TO 808	TYPE OF CEMENT Const	CEMENT USED 6500 22.60	OTHER
OPERATOR'S REPRESENTATIVE C. E. Smith	CONTRACTOR'S TOOL PUSHER R. Adam										

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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																										
			71	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																									
			2	SNGLS.	DP	FT.	TYPE																										
			12	D.C.	OD	361.21	FT.	SIZE																									
			5	6 1/4	OD	147.44	FT.	NOZZ. SIZE																									
				RMR BODY	OD	263	FT.	SERIAL No.																									
				STB BODY	OD	324	FT.	DEPTH IN																									
				SUBS	OD	410	FT.	DEPTH OUT																									
				BIT OR C.B.			FT.	FT. DRILLED																									
							FT.	FT. REAMED																									
				Kelly Down		3470	FT.	FT. CORED																									
				TOTAL		7288	FT.	CUM. HRS. RUN																									
				WT OF STRING		1560	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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																										
			71	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																									
			2	SNGLS.	DP	FT.	TYPE																										
			12	D.C.	OD	361.21	FT.	SIZE																									
			5	6 1/4	OD	147.44	FT.	NOZZ. SIZE																									
				RMR BODY	OD	263	FT.	SERIAL No.																									
				STB BODY	OD	324	FT.	DEPTH IN																									
				SUBS	OD	410	FT.	DEPTH OUT																									
				BIT OR C.B.			FT.	FT. DRILLED																									
							FT.	FT. REAMED																									
				Kelly Down		3470	FT.	FT. CORED																									
				TOTAL		7288	FT.	CUM. HRS. RUN																									
				WT OF STRING		1560	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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																										
			71	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE																									
			2	SNGLS.	DP	FT.	TYPE																										
			12	D.C.	OD	361.21	FT.	SIZE																									
			5	6 1/4	OD	147.44	FT.	NOZZ. SIZE																									
				RMR BODY	OD	263	FT.	SERIAL No.																									
				STB BODY	OD	324	FT.	DEPTH IN																									
				SUBS	OD	410	FT.	DEPTH OUT																									
				BIT OR C.B.			FT.	FT. DRILLED																									
							FT.	FT. REAMED																									
				Kelly Down		3470	FT.	FT. CORED																									
				TOTAL		7288	FT.	CUM. HRS. RUN																									
				WT OF STRING		1560	LBS.	CONDITION																									
				DRILLER																													
				WEATHER CONDITIONS																													

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINER LANE E 35**
COMPANY **UNION OIL CO**
TOOL PUSHER **R. Adam** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Crofts	1240	8		
DRK-MAN	2	G. Hill	2352	8		
CAT-HEAD	3	G. Henschel	3287	8		
FLR-MAN	4	G. Walter	9363	8		
FLR-MAN	4	J. Mayr	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	L. Swan				
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	K. Vio	8220	8		
DRK-MAN	2	G. S. 2952	8801	8		
CAT-HEAD	3	R. Duperron	1635	8		
FLR-MAN	4	D. L. HART	4799	8		
FLR-MAN	4	J. 2940 R. KOWSKI				

COOK	NAME	HOURS
	O. Bernardo	9
COOK'S HLP.	S. Rea	9
CAMP ATTN.	H. Dix	9
TOTAL REG HRS.		
TOTAL O.T. HRS.		
TOTAL HOURS		

DAILY DRILLING REPORT

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE			
UNION OIL CO		F	35	60	120			UNION PAN AM TRAINER LAKE	F 35	NW 1			
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 (1964) LTD.		19	41/2	TYPE THD. XH		F	1. MANUFACTURER TYPE 2. DELUXED 218P 3. L.D. FIK		9 3/4 32.5	808	Conat	6500 370 CAICE	
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER											
Cecil E. Smith		R. Adam											
TIME DISTRIBUTION—HOURS													
DRILLING		1 7/8											
TRIPPING		5 1/4											
RIG MAINTENANCE		1/4											
RIG REPAIRS													
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 AND DRILLING OUT													
MISCELLANEOUS		1 1/2											
SUB TOTAL													
DAYWORK HOURS													
TOTAL HOURS		8 8											
WIRE LINE RECORD													
REEL NO.		3728											
NO. OF LINES		8 SIZE 1 1/2											
FEET SLIPPED		1460											
FEET CUT OFF		160											
PRESENT LENGTH		4840											
TON MI. OF TRIPS SINCE LAST CUT		410											
CUMULATIVE TON MI. OF TRIPS		2730											
NO. OF DAYS FROM SPUD		38											
CUMULATIVE ROTATING HRS.		396											
DAYS SINCE LAST ACCT.		20											
DRILLER ACCTNT. FREE DAYS													
MORNING TOUR		20											
DAY TOUR		210											
EVENING TOUR		85											
NO. DRILLING ASSEMBLY		BIT RECORD											
71 STANDS DP		667248 FT.											
SNGLS. DP		26 27											
D.C. 7 OD		36121 FT.											
5 6 1/4 OD		14744 FT.											
RMR BODY OD		263 FT.											
STB BODY OD		324 FT.											
SUBS OD		400 FT.											
BIT OR C.B.		FT. DRILLED 83											
FT. REAMED		7220											
Kelly Down		2900 FT.											
TOTAL		7220 FT.											
WT OF STRING		156 M LBS.											
DRILLER		BR. L. J. J.											
WEATHER CONDITIONS		Fair											
NO. DRILLING ASSEMBLY		BIT RECORD											
72 STANDS DP		673478 FT.											
SNGLS. DP		27 27											
D.C. 7 OD		36121 FT.											
5 6 1/4 OD		147.44 FT.											
RMR BODY OD		263 FT.											
STB BODY OD		3.24 FT.											
SUBS OD		4.00 FT.											
BIT OR C.B.		FT. DRILLED 50											
FT. REAMED		7270											
Kelly Down		16.70 FT.											
TOTAL		7270 FT.											
WT OF STRING		156 M LBS.											
DRILLER		C. Meyer											
WEATHER CONDITIONS		Cold											
NO. DRILLING ASSEMBLY		BIT RECORD											
71 STANDS DP		673428 FT.											
SNGLS. DP		27 27											
D.C. 7 OD		361.2 FT.											
5 6 1/4 OD		147.44 FT.											
RMR BODY OD		2.63 FT.											
STB BODY OD		3.24 FT.											
SUBS OD		4.00 FT.											
BIT OR C.B.		FT. DRILLED 68											
FT. REAMED		7288											
Kelly Down		34.70 FT.											
TOTAL		7288 FT.											
WT OF STRING		156 M LBS.											
DRILLER		R. M. Vig											
WEATHER CONDITIONS		Cold											
NO. DRILLING ASSEMBLY		BIT RECORD											
71 STANDS DP		673428 FT.											
SNGLS. DP		27 27											
D.C. 7 OD		361.2 FT.											
5 6 1/4 OD		147.44 FT.											
RMR BODY OD		2.63 FT.											
STB BODY OD		3.24 FT.											
SUBS OD		4.00 FT.											
BIT OR C.B.		FT. DRILLED 68											
FT. REAMED		7288											
Kelly Down		34.70 FT.											
TOTAL		7288 FT.											
WT OF STRING		156 M LBS.											
DRILLER		R. M. Vig											
WEATHER CONDITIONS		Cold											

DRILLING CREW PAYROLL DATA

WELL		UNION PAN AM TRAINER LAKE				
COMPANY		UNION OIL CO				
TOOL PUSHER		R. Adam				
RIG NO.		19				
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. HENSCHEL	3287	8		
FLR-MAN	4	G. WALTER	9363	8		
FLR-MAN	4	J. MAYR	5428	8		
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leach	4767	8		
CAT-HEAD	3	V. C. Richmond	7600	8		
FLR-MAN	4	B. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	R. VIG	9320	8		
DRK-MAN	2	G. SZASZ	8801	8		
CAT-HEAD	3	R. DUBERRON	1635	8		
FLR-MAN	4	D. LEONHARDT	4779	8		
FLR-MAN	4	J. ZAYOROWSKI		8		
COOK		D. BERNARDO		9		
COOK'S HLPR.		S. RCA		9		
CAMP ATTN.		H. DIX		9		
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT

OPERATOR UNION OIL CO	LOCATION E 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRAINER LAKE	No. F 35	PROVINCE ALAB
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. Quincy 218P 2. GD EXK 3.	CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 3/4 32.5 808 Cond 6 inch 3% Calca	
OPERATOR'S REPRESENTATIVE Clarence E. Smith	CONTRACTOR'S TOOL PUSHER R. Adams							

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	11/4	7/4	
TRIPPING	6		
RIG MAINTENANCE	1/4	1/4	
RIG REPAIRS			
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Running & Cleaning To Bottom	1/2		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
WEADING UP AND DRILLING OUT			
MISCELLANEOUS			
CIRG SAMPLE SUB TOTAL	1/4		
DAYWORK HOURS			
TOTAL HOURS	8	8	8

MORNING TOUR

DAY TOUR

EVENING TOUR

NO.	DRILLING ASSEMBLY	BIT RECORD
70	STANDS DP 6577.65 FT.	Drilling or Core Bit No. 25 26
12	SNGLS. DP 261.21 FT.	TYPE YH.G
5	D.C. 7 OD 147.44 FT.	SIZE 8 3/4 9 3/4
	RMR BODY OD 263 FT.	NOZZ. SIZE 2 1/4 2 1/4
	STB BODY OD 3.24 FT.	SERIAL No. 998360 E961
	SUBS OD 4.00 FT.	DEPTH IN 7052 7137
	BIT OR C.B.	DEPTH OUT 7138
		FT. DRILLED 8 3/4
		FT. REAMED
	Kelly Down 4083 FT.	FT. CORED
	TOTAL 7137 FT.	CUM. HRS. RUN 18 3/4
	WT OF STRING 150m LBS.	CONDITION 3-2-1
	DRILLER Clarence E. Smith	
	WEATHER CONDITIONS Cold	

NO.	DRILLING ASSEMBLY	BIT RECORD
70	STANDS DP 6640.88 FT.	Drilling or Core Bit No. 26
12	SNGLS. DP 361.21 FT.	TYPE YH.G
5	D.C. 7 OD 147.44 FT.	SIZE 8 3/4 9 3/4
	RMR BODY OD 265 FT.	NOZZ. SIZE 2 1/4 2 1/4
	STB BODY OD 3.24 FT.	SERIAL No. 106150
	SUBS OD 4.00 FT.	DEPTH IN 7137
	BIT OR C.B.	DEPTH OUT 7137
		FT. DRILLED 34
		FT. REAMED
	Kelly Down 11.60 FT.	FT. CORED
	TOTAL 7171 FT.	CUM. HRS. RUN 7 3/4
	WT OF STRING 150m LBS.	CONDITION 0.5
	DRILLER Clarence E. Smith	
	WEATHER CONDITIONS Cold	

NO.	DRILLING ASSEMBLY	BIT RECORD
71	STANDS DP 6692.48 FT.	Drilling or Core Bit No. 26
12	SNGLS. DP 361.21 FT.	TYPE YH.G
5	D.C. 7 OD 147.44 FT.	SIZE 8 3/4 9 3/4
	RMR BODY OD 2.63 FT.	NOZZ. SIZE 2 1/4 2 1/4
	STB BODY OD 3.24 FT.	SERIAL No. E96150
	SUBS OD 4.00 FT.	DEPTH IN 7137
	BIT OR C.B.	DEPTH OUT 7137
		FT. DRILLED 75
		FT. REAMED
	Kelly Down 21.00 FT.	FT. CORED
	TOTAL 7212 FT.	CUM. HRS. RUN 15
	WT OF STRING 150m LBS.	CONDITION 1N
	DRILLER R.M. Dyer	
	WEATHER CONDITIONS Cold	

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
7036	1		7137		65	40	1400	5 1/2	59	
DEVIATION RECORD: 7137 3/4										
REMARKS: DRILL 8 3/4" HOLE										
CIRC SAMPLE										
SURVEY										
TRIP FOR NEW R.T.										

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
7137	34		7171		65	40	1400	5 1/2	59	7 3/4
DEVIATION RECORD: 7171 3/4										
REMARKS: RIG SETBACK 2015										
BREAK C.C. & CLEANED TO BOTTOM										
DRILLING 8 3/4" HOLE										

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
7171	41		7212		65	40	1400	5 1/2	59	7 3/4
DEVIATION RECORD: 7212 41										
REMARKS: DRILL 8 3/4" HOLE										
14 RIG SER 4 1/2 ROPS										
14 DRILL										

MUD RECORD					
TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WEIGHT	9.5				
VISC.	500+				
W.L.C.C.	6.0				
FLTR. CK.	42				
pH	9.5				
SD. CONT.					
MUD & CHEMICALS ADDED					
TYPE	AMT.	TYPE	AMT.		
See As H 400H					

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.		

MUD RECORD					
TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
WEIGHT	9.5	9.5	9.5	9.5	
VISC.	300	300	300	300	
W.L.C.C.	6.0	5.4	5.2		
FLTR. CK.	42	42	42		
pH	9.5	9.5	9.5		
SD. CONT.					
MUD & CHEMICALS ADDED					
TYPE	AMT.	TYPE	AMT.		
SPERSE	100H				
CAUSTIC	250H				
CAAC	75H				
SODASH	1000H				
GEL	600H				

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINER LAKE F35**
 COMPANY **UNION OIL CO**
 TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CRAFTS	1240	8		
DRK-MAN	2	G. HILL	2252	8		
CAT-HEAD	3	G. HENSCHEL	2289	8		
FLR-MAN	4	G. WALTER	9363	8		
FLR-MAN	4	J. MAYR	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leach	4767	8		
CAT-HEAD	3	V. C. Richmond	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. VIG	9220	8		
DRK-MAN	2	G. SZASZ	8801	8		
CAT-HEAD	3	R. DUPERRON	1625	8		
FLR-MAN	4	D. LEONHARDT	4799	8		
FLR-MAN	4	J. ZAYORROWSKI		8		

COOK	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
	O. BERNARD		9		
COOK'S HLPR.	S. Rea		9		
CAMP ATTN.	H. D. Y.		9		

TOTAL REG HRS. TOTAL O.T. HRS. TOTAL HOURS

DATE: Jan 25/67

REPORT No. 37

DATE: Jan 25/67

DAILY DRILLING REPORT

OPERATOR <i>Union Oil Co</i>	LOCATION <i>E 35</i>	SEC. <i>60</i>	TWP. <i>120</i>	RGE. <i>120</i>	W. <i>120</i>	WELL NAME <i>Union Pan Am Trainer Lake E 35</i>	No. <i>E 35</i>	PROVINCE <i>NWT</i>
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. <i>19</i>	DRILL PIPE STRING NO. & SIZE <i>19</i>	TOOL JOINT <i>YH</i>	OD <i>F</i>	DRILL PIPE GRADE <i>F</i>	PUMPS No. MANUFACTURER TYPE 1. <i>Delwell 218P</i> 2. <i>6D FKK</i>	CASING & LINER RECORD SIZE WT & GR. FROM TO TYPE OF CEMENT CEMENT USED OTHER <i>9 3/8 30.5 80.8 Cement 650 lb 370 lb 100 lb</i>	
OPERATOR'S REPRESENTATIVE <i>Deane Smith</i>	CONTRACTOR'S TOOL PUSHER <i>R. Adams</i>							

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	7	7
TRIPPING	1/4		
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
MOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING MOLE			
Reaming & Cleaning To Bottom	1/4		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

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.	MRS. RUN	MUD RECORD
69	STANDS DP	FT.												
1	SNGLS. DP	FT.												
12	D.C. 7 OD	361.21												
5	6 1/4 OD	147.44												
	RMR BODY OD	2.63												
	STB BODY OD	3.24												
	SUBS OD	4.00												
	BIT OR C.B.	FT.												
		FT. DRILLED												
		FT. REAMED												
	Kelly Down	3261												
	TOTAL	7066												
	WT OF STRING	150 M.LBS.												
	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.	MRS. RUN	MUD RECORD
69	STANDS DP	FT.												
2	SNGLS. DP	FT.												
12	D.C. 7 OD	361.21												
5	6 1/4 OD	147.44												
	RMR BODY OD	3.24												
	STB BODY OD	2.63												
	SUBS OD	4.00												
	BIT OR C.B.	FT.												
		FT. DRILLED												
		FT. REAMED												
	Kelly Down	3718												
	TOTAL	7102												
	WT OF STRING	150 M.LBS.												
	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.	MRS. RUN	MUD RECORD
70	STANDS DP	FT.												
	SNGLS. DP	FT.												
12	D.C. 7 OD	361.21												
5	6 1/4 OD	147.44												
	RMR BODY OD	3.24												
	STB BODY OD	2.63												
	SUBS OD	4.00												
	BIT OR C.B.	FT.												
		FT. DRILLED												
		FT. REAMED												
	Kelly Down	3983												
	TOTAL	7136												
	WT OF STRING	150 M.LBS.												
	DRILLER													
	WEATHER CONDITIONS													

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1 1/2
FEET SLIPPED	1460
FEET CUT OFF	160
PRESENT LENGTH	8840
TON ML. OF TRIPS SINCE LAST CUT	70
CUMULATIVE TON ML. OF TRIPS	2372
NO. OF DAYS FROM SPUD	36
CUMULATIVE ROTATING MRS.	365 1/2
DAYS SINCE LAST ACCNT.	18
DRILLER ACCNT. FREE DAYS	
MORNING TOUR	18
DAY TOUR	208
EVENING TOUR	83

DRILLING CREW PAYROLL DATA

WELL *Union Pan Am Trainer Lake E 35*COMPANY *Union Oil Co*TOOL PUSHER *R. Adams* RIG NO. *19*

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Crofts	1240	8		
DRK-MAN	2	G. Hill	3352	8		
CAT-HEAD	3	G. Henschel	3287	8		
FLR-MAN	4	G. Walter	9313	8		
FLR-MAN	4	J. Mayr	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	H. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	B. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. Vile	9220	8		
DRK-MAN	2	G. Szasz	8801	8		
CAT-HEAD	3	R. Duperron	1635	8		
FLR-MAN	4	D. Leonhardt	2799	8		
FLR-MAN	4	J. Zaydorkowski		8		

COOK	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
	O. Bernardo		9		
COOK'S HLPR.	S. Rea		9		
CAMP ATTN.	H. D. I.		9		
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT																
OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE					
Union Pan Am		E		35	60	120	Union Pan Am TRINOR Lake			E 35	NW 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
			TYPE TMD.				No.	MANUFACTURER				TYPE	FROM			
PETER BAWDEN DRILLING (1964) LTD.	19	4 1/2	XXH	E			1.	Oilwell	218P	9 5/8	32.5		808	Crest	650 lbs	3 1/2 Cakes
							2.	GD	FXK							
							3.									
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER														
P. Ardman																

TIME DISTRIBUTION—HOURS			
	Morn	Day	Eve
DRILLING	7 ³ / ₄	1 ¹ / ₂	
TRIPPING			
RIG MAINTENANCE	1 ¹ / ₄	1 ¹ / ₄	
RIG REPAIRS			
HOLE SURVEYS		3 ¹ / ₄	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	

MORNING TOUR

DAY TOUR

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
69	STANDS DP	6484 39 FT.	Drilling or Core Bit No	24
	SNGLS. DP	FT.	TYPE	W75
13	D.C. 7 OD	391 22 FT.	SIZE	8 3/4
3	6 1/4 OD	88 43 FT.	NOZZ. SIZE	3-13
	RMR BODY OD	263 FT.	SERIAL No.	82147
	STB BODY OD	324 FT.	DEPTH IN	6952
	SUBS OD	400 FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	57
		FT.	FT. REAMED	
	Kelly Down	3509 FT.	FT. COKED	
	TOTAL	7009 FT.	CUM. HRS. RUN	11
	WT OF STRING	156 M LBS.	CONDITION	OB
	DRILLER	BR 1/2/50		
	WEATHER CONDITIONS	C 50		

NO. DRILLING ASSEMBLY			BIT RECORD	
69	STANDS DP	FT.	Drilling or Core Bit No.	24
2	SNGLS DP	654.30 FT.	TYPE	W27J
13	D.C. 7" OD	391.22 FT.	SIZE	8 3/4
3	6 5/8" OD	88.43 FT.	NOZZ. SIZE	3-13
	RAM BODY OD	2.63 FT.	SERIAL No.	82147
	STB BODY OD	3.24 FT.	DEPTH IN	6952
	SUBS OD	4.00 FT.	DEPTH OUT	7052
	BIT OR C.B.	FT.	FT. DRILLED	100
		FT.	FT. REAMED	
	Kelly Down	16.18 FT.	FT. CORED	
	TOTAL	7052 FT.	CUM. HRS. RUN	18 1/2
	WT OF STRING	158 LBS.	CONDITION	
DRILLER <i>Constance Meyer</i> WEATHER CONDITIONS <i>Cold</i>				

NO. DRILLING ASSEMBLY				BIT RECORD	
69	STANDS	DP	FT.	Drilling or Core Bit No.	25
1	SNGLS.	DP	65' 14.8 FT.	TYPE	H746-5
12	D.C.	7 OD	361.2 FT.	SIZE	8 3/4
5	6 1/2 OD	14' 17 1/4 FT.		NOZZ. SIZE	2 1/2
	RMR BODY	OD	2.63 FT.	SERIAL No.	998300
	STB BODY	OD	3.24 FT.	DEPTH IN	7052
	SUBS	OD	4.00 FT.	DEPTH OUT	
	BIT OR C.B.		FT.	FT. DRILLED	
			FT.	FT. REAMED	
	Kelly Down		18.61 FT.	FT. CORED	
	TOTAL		7052 FT.	CUM. HRS. RUN	
WT OF STRING			LBS.	CONDITION	
DRILLER					
WEATHER CONDITIONS					

[illegible]

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 100G#	PUMP PRESS.	LINER SIZE	S.P.M.	MRS. RUN
7009	43		7052		65	40	PUMP No. 1	1400	5 1/2	58 7/8
							PUMP No. 2			

DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
From	To	Elapsed Time	REMARKS							
800	815	1 1/4	Big Service & BOPS							
815	845	7 1/2	Drilling 8 3/4 Hole							
845	920	1 1/4	Drop Survey							

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
7052	0		7052				PUMP No. 1			
							PUMP No. 2			
DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
	7052	1 1/4								
From	To	Elapsed Time	REMARKS							
4:00	4:15	1/4	RIG SET							
4:15	7:00	2 3/4	HOIST W/ PIT #24							
7:00	10:00	3	SUNSCOPE DRILL COLLARS							
10:00	10:15	1/4	LAY DOWN ONE 7" D.C. & CHANGE B.T.S							
10:15	11:00		RAN IN DCS							
11:00	11:15	1/4	PICK UP TWO 6 1/4" D.C.S.							
11:15	12:00	3/4	SLIP & CUT 40' DRUG LINE.							

MUD RECORD				
TIME	1st MR.	3rd MR.	5th MR.	7th MR.
WEIGHT	9.6	9.6	9.6	
VISC.	115	165	200	
W.L.-C.C.	5.0		11.8	
FLTR. CK.	4 1/2		7 1/2	
pH	9.5		7.5	
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
CEL	2250			
CRACKING	50	#		
SUPERFINE	200	#		
C.M.C.	100	#		

[illegible][illegible]

DRILLING CREW PAYROLL DATA

WELL UNION PAN AM TRAINOR Late E35

COMPANY Union Oil Co

TOOL PUSHER R. Adams RIG NO. 19

[illegible]

CREW	CODE	NAME	EMPL	HOURS		DIS
			No.	REG	O.T.	
DRILLER	1	G. Meyer	5788	8	6	
DRK-MAN	2	K. Leech	4767	8	6	
CAT. HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	B. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		
		worked over to				
		install Clutch in				
		#4 floor motor				

worked over to
install Clutch in
#4 floor motor

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILL- ER	1	H.VIG	9320	8	
DRK- MAN	2	G. SZTARZ	8801	8	
CAT- HEAD	3	R. DUPERRON	1635	8	
FLR- MAN	4	D. LEONHARDT	2799	8	
FLR- MAN	4	J. ZAYOROWSKI		8	
COOK					
COOK'S HLPR.					
CAMP ATTN.					
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DATE: Apr 23/6

DAILY DRILLING REPORT										No.		Province																	
OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.		Province																	
Union Oil Co		F		35	60	120			Union P.A.M. Trainer Lake	F 35		NWT																	
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 (1964) LTD.		19	4 1/2	TYPE THD. XH		E	1. Delivered 218P 2. GD FKH 3.			9 7/8 32.5		808	Comet	6500	3 1/2 Cmc														
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																											
Cecil E. Smith		H. Adams																											
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.		MRS. RUN		MUD RECORD	
		13 STANDS DP 6390.84 FT.		Drilling or Core Bit No. 23		1668		51				6919				65		40		1500		5 1/2		59				TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
DRILLING		13 SNGLS. DP 3912.2 FT.		TYPE WTS																								WEIGHT 9.7 9.7 9.7 9.7	
TRIPPING		3 6 1/8 OD 88.43 FT.		SIZE 8 3/4																								VISC. 165 174 150 166	
RIG MAINTENANCE		3 6 1/8 OD 88.43 FT.		NOZZ. SIZE 3-13																								W.L.C.C. 5.0 4.8 4.8 4.1	
RIG REPAIRS		RMR BODY OD 263 FT.		SERIAL No. 82141																								FLTR. CK. 3/2 3/2 3/2 3/2	
HOLE SURVEYS		STB BODY OD 324 FT.		DEPTH IN 6858																								pH 10 10 10 10	
CONDITIONING MUD		SUBS OD 400 FT.		DEPTH OUT 6858																								SD. CONT.	
CONDITIONING HOLE		BIT OR C.B. FT.		FT. DRILLED 61																								MUD & CHEMICALS ADDED	
Reaming & Cleaning To Bottom		Kelly Down 3864 FT.		FT. CORED																								TYPE AMT. TYPE AMT.	
WORKING OR STUCK PIPE		TOTAL 6919 FT.		CUM. MRS. RUN 10																								GEL 2600 H	
FISHING		WT OF STRING 154 M LBS.		CONDITION 1N																								SOLUBLE 250 H	
LOST CIRCULATION		DRILLER		WEATHER CONDITIONS																								CAUSTIC 50 H	
CASING		COLD																										C.M.C. 100 H	
WAITING ON CEMENT																													
HEADING UP AND DRILLING OUT																													
MISCELLANEOUS																													
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.		MRS. RUN		MUD RECORD	
REEL NO.		68 STANDS DP 6422.36 FT.		Drilling or Core Bit No. 23		6919		33				6952				65		40		1500		5 1/2		59		424		TIME 1st HR. 3rd HR. 5th HR. 7th HR.	
NO. OF LINES		13 SNGLS. DP 6422.36 FT.		TYPE WTS																								WEIGHT 9.6	
FEET SLIPPED		13 D.C. 7 OD 391.22 FT.		SIZE 8 3/4																								VISC. 182	
FEET CUT OFF		3 6 1/8 OD 88.43 FT.		NOZZ																									

DRILLING CREW PAYROLL DATA

WELL UNION PAN AM TRINOR LAKE E35

COMPANY UNION OIL CO

TOOL PUSHER H. Adams RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST CODE
				REG	CT	
DRILL- ER	1	G CROFTS	1240	8		
DRK- MAN	2	G HILL	3352	8		
CAT- HEAD	3	G HENSCHEL	3297	8		
FLR- MAN	4	G WALTER	9363	8		
FLR- MAN	4	J MAYR	5428	8		

[illegible]

CREW	CODE	NAME	EMP. No.	HOURS		DIS.
				REG	O.T.	
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	X. Leech	4767	8		
CAT-HEAD	3	V.C. Rickmand	7600	8	4	
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

O.T. SHORT ON
EVENING TOUR.

CREW	CODE	NAME	EMPL No.	HOURS	
				REG	O.T.
DRILLER	1	K. Vig	9370	8	
DRK-MAN	2	G. SZOST	8801	8	
CAT-HEAD	3	~~G. R. DUFERRON~~ D. Leonard	1635	8	
FLR-MAN	4	J. Zayakowick		8	
FLR-MAN	4	D. Leonard	4799	8	

COOK	O BERNARDU	9	2
COOK'S HLPR.	S RENA	9	2
CAMP ATTN.	H DIX	9	

	TOTAL REG HRS	TOTAL O.T. HRS.	TOTAL HOURS
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DATE: June 22/67

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W.	WELL NAME UNION PAN AM TRINOR LK	No. E-35	PROVINCE N.W.T		
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE NO. 4 1/2 SIZE TYPE THD. X.H	TOOL JOINT 6" OD	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. OILWELL 218P 2. G-D F.M. 3.	CASING & LINER RECORD 9 3/4 32.5 0 808 CONST 650 5x5 30 2 20 20 20	DEPTH SET FROM TO 0 808	TYPE OF CEMENT CONST	CEMENT USED 650 5x5 30 2 20 20 20	OTHER
OPERATOR'S REPRESENTATIVE Dean E. Smith	CONTRACTOR'S TOOL PUSHER R. Adams									

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							
				STANDS	DP	FT.	Drilling or Core Bit No.	22																													
DRILLING				5 3/4	6 3/4	2 1/4	13	D.C. 7 OD	391.2 FT.	SIZE	8 3/4	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
TRIPPING				1 1/2	3/4	5	3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	WEIGHT	9.7	9.7	9.7	9.7
RIG MAINTENANCE				1 1/4	1/4	1/4	3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	VISC.	135	135	135	135
RIG REPAIRS							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	W.L.C.C.	4.8	5.2	5.8	5.8
HOLE SURVEYS				1/4			3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	FLTR. CK.	3/2	3/2	3/2	3/2
CONDITIONING MUD							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	pH	9.5	9.5	9.5	9.5
CONDITIONING HOLE							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	SD. CONT.				
Reaming & Cleaning To Bottom				1/2	1/2		3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	MUD & CHEMICALS ADDED				
WORKING OR STUCK PIPE							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	TYPE	AMT.	TYPE	AMT.	
FISHING							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	GEL	4600#			
LOST CIRCULATION							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	SPERSENE	300#			
CASING							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	C.M.C.	100#			
WAITING ON CEMENT							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	CASING	100#			
HEADING UP AND DRILLING OUT							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION					
MISCELLANEOUS							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION					
SUB TOTAL							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION					
DAYWORK HOURS							3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION					
TOTAL HOURS				8	8	8	3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13	SERIAL No.	37370	DEPTH IN	6779	DEPTH OUT	6818	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION					

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				
				STANDS	DP	FT.	Drilling or Core Bit No.	22																										
REEL NO.				67	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
NO. OF LINES				2	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
FEET SLIPPED				1430	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
FEET CUT OFF				120	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
PRESENT LENGTH				4880	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
TON ML. OF TRIPS SINCE LAST CUT				289	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
CUMULATIVE TON ML. OF TRIPS				2001	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
NO. OF DAYS FROM SPUD					STANDS	DP	FT.	Drilling or Core Bit No.	22																									
CUMULATIVE ROTATING HRS.					STANDS	DP	FT.	Drilling or Core Bit No.	22																									
DAYS SINCE LAST ACCT.				15	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
DRILLER ACCT. FREE DAYS					STANDS	DP	FT.	Drilling or Core Bit No.	22																									
MORNING TOUR				80	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
DAY TOUR				15	STANDS	DP	FT.	Drilling or Core Bit No.	22																									
EVENING TOUR				205	STANDS	DP	FT.	Drilling or Core Bit No.	22																									

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					
				STANDS	DP	FT.	Drilling or Core Bit No.	22																											
REEL NO.				67	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
NO. OF LINES				2	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
FEET SLIPPED				1430	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
FEET CUT OFF				120	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
PRESENT LENGTH				4880	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
TON ML. OF TRIPS SINCE LAST CUT				289	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
CUMULATIVE TON ML. OF TRIPS				2001	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
NO. OF DAYS FROM SPUD					STANDS	DP	FT.	Drilling or Core Bit No.	22																										
CUMULATIVE ROTATING HRS.					STANDS	DP	FT.	Drilling or Core Bit No.	22																										
DAYS SINCE LAST ACCT.				15	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
DRILLER ACCT. FREE DAYS					STANDS	DP	FT.	Drilling or Core Bit No.	22																										
MORNING TOUR				80	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
DAY TOUR				15	STANDS	DP	FT.	Drilling or Core Bit No.	22																										
EVENING TOUR				205	STANDS	DP	FT.	Drilling or Core Bit No.	22																										

Form D1-5-66-3M	Gallons of Diesel Fuel on Hand at 8:00 a.m.	3'9"	REPORT No.	32	DATE:	JAN 21/67
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DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRINOR LK-E35**
COMPANY **UNION OIL**
TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. VIG	9320	8		
DRK-MAN	2	G. S. J. S. J.	5501	8		
CAT-HEAD	3	B. K. L. E. F. L. O. N	7657	8		
FLR-MAN	4	D. LEONHARDT	4979	8		
FLR-MAN	4	J. Z. P. O. R. H. O. W. S. H.		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. H. W. S. C. H. E. L	3287	8		
FLR-MAN	4	G. WALTER	9363	8		
FLR-MAN	4	J. M. A. Y. R.	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic. A. R. C. H. M. A. N. D	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic. A. R. C. H. M. A. N. D	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic. A. R. C. H. M. A. N. D	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic. A. R. C. H. M. A. N. D	7600	8		
FLR-MAN	4	R. Swan		8		
FLR-MAN	4	Jim Thomas	8921	8		

				TOTAL	TOTAL	TOTAL
				REG HRS.	O.T. HRS.	HOURS

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRAWLER LKES	No. 235	PROVINCE N.W.T.		
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE NO. 19 SIZE 4 1/2 TYPE THD. X.H	TOOL JOINT 6" GD	DRILL PIPE GRADE E	PUMPS No. 1 MANUFACTURER OILWELL TYPE 218P No. 2 G.D. EXR.	CASING & LINER RECORD No. 1 9 5/8 32.5 0 808 CONST 650x55 30' 1st Cla.	DEPTH SET FROM 0 TO 808	TYPE OF CEMENT CONST	CEMENT USED 650x55 30' 1st Cla.	OTHER
OPERATOR'S REPRESENTATIVE A. Stewart	CONTRACTOR'S TOOL PUSHER R. Adams									

TIME DISTRIBUTION—HOURS			
	Morn	Day	Eve
DRILLING	7 1/4	6	
TRIPPING			6
RIG MAINTENANCE	1/4	1/4	
RIG REPAIRS	1/2	3/4	1
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE		1	1/2
Rooming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8
WIRE LINE RECORD			
REEL NO.			
NO. OF LINES	SIZE		
FEET SLIPPED	1450		
FEET CUT OFF	120		
PRESENT LENGTH	4880		
TON MI. OF TRIPS SINCE LAST CUT	134		
CUMULATIVE TON MI. OF TRIPS	1846		
NO. OF DAYS FROM SPUD			
CUMULATIVE ROTATING HRS.			
DAYS SINCE LAST ACCNT.	14		
DRILLER ACCNT. FREE DAYS			
MORNING TOUR	79		
DAY TOUR	14		
EVENING TOUR	204		

NO. DRILLING ASSEMBLY		BIT RECORD	
66 STANDS DP	62025 FT.	Drilling or Core Bit No.	21
2 SNGLS. DP	6264 80 FT.	TYPE	M4L65
13 D.C. 7 OD	391.22 FT.	SIZE	8 3/4
3 6 1/8 OD	88.43 FT.	NOZZ. SIZE	3-13
RMR BODY OD	2.63 FT.	SERIAL No.	37402
STB BODY OD	3.24 FT.	DEPTH IN	6646
SUBS OD	4.00 FT.	DEPTH OUT	
BIT OR C.B.		FT. DRILLED	82
		FT. REAMED	
Kelly Down	36.11 FT.	FT. CORED	
TOTAL	6728 FT.	CUM. HRS. RUN	8 1/4
WT OF STRING	150M LBS.	CONDITION	IN
DRILLER	H.M. 7/4		
WEATHER CONDITIONS	50-60 50-60 W		

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
6653	75			6728		65	40	1500	5 1/2	59	7 1/4
DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
From	To	Elapsed Time									
12:00	12:15	1/2 RIG SER.									
12:15	12:45	1/2 REPAIR MUD LINE.									
12:45	1:00	1/2 DRILL 8 3/4" HOLE									
REMARKS											
RIG SER.											
REPAIR MUD LINE.											
DRILL 8 3/4" HOLE											
CIRC TO SURVEY & HOIST											
CHANGED FUEL FILTERS IN 1-2-3-4 GMC'S											
250 lbs. Loosening mud to formation 6646-6750											

MUD RECORD	
TIME	1st HR. 3rd HR. 5th HR. 7th HR.
WEIGHT	9.8 9.9 9.9 9.9
VISC.	250 200 150 150
W.L.C.C.	4.2 4.4 4.6 5.0
FLTR. CK.	1/2 1/2 1/2 1/2
pH	9.5 9.5 9.5 9.5
SD. CONT.	
MUD & CHEMICALS ADDED	
TYPE	AMT.
GEL	500#
SPRINGS	450#
CAUSTIC	1400#
CNC	100#

DRILLING CREW PAYROLL DATA					
WELL UNION PAN AM TRAWLER LKES					
COMPANY UNION OIL					
TOOL PUSHER R. Adams RIG NO. 19					
CREW	CODE	NAME	EMPL. No.	HOURS REG	DIST. CODE
DRILLER	1	H.VIG	9320	8	
DRK-MAN	2	G. SZASZ	8801	8	
CAT-HEAD	3				
FLR-MAN	4	D. LEON HART	4779	8	
FLR-MAN	4	J. ZAYORHANSKI		8	
O.T. SHORT HANDLED ON CRANEYARDS					
CREW	CODE	NAME	EMPL. No.	HOURS REG	DIST. CODE
DRILLER	1	G. CRAFTS	1240	8	
DRK-MAN	2	G. HALL	3352	8	
CAT-HEAD	3	G. HENSCHEL	3281	8	
FLR-MAN	4	G. WALTER	9363	8	
FLR-MAN	4	J. MAYR	5428	8	
CREW	CODE	NAME	EMPL. No.	HOURS REG	DIST. CODE
DRILLER	1	G. Meyer	5788	8	
DRK-MAN	2	K. Leech	4767	8	
CAT-HEAD	3	K. Richmond	7600	8	
FLR-MAN	4	R. Swan		8	
FLR-MAN	4	J. M. Thomas	8921	8	
COOK		D. BERNARDO		9	
COOK'S HLPR.		S. RRA		9	
CAMP ATTN.		H. DIX		9.2	
				TOTAL REG HRS.	TOTAL O.T. HRS.

[illegible][illegible][illegible]

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 ACCT.			DRILLER ACCT. FREE DAYS			MORNING TOUR			DAY TOUR			EVENING TOUR					
1			1			1430			120			4880			—			1712			13			78			13			203																	

NO. DRILLING ASSEMBLY				BIT 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.		MRS. RUN		MUD RECORD									
65 STANDS DP FT.				Drilling or Core Bit No. 21				6646 7				6653				65 40								PUMP No. 1 1500 5 59 15		PUMP No. 2										TIME		1st HR.		3rd HR.		5th HR.		7th HR.					
1 SINGLS. DP 6130.83 FT.				TYPE 114165																																				WEIGHT						9.9			
13 D.C. 7" OD 371.22 FT.				SIZE 834																																						VISC.						155	
3 64" OD 5843 FT.				NOZZ. SIZE 5-13																																						W.L.C.C.						4.2	
RMR BODY OD 2.63 FT.				SERIAL No. 57402																																						FLTR. CK.						23	
STB BODY OD 3.24 FT.				DEPTH IN 6646																																						pH						9.5	
SUBS OD 400 FT.				DEPTH OUT																																				SD. CONT.									
BIT OR C.B. FT.				FT. DRILLED 7																																								MUD & CHEMICALS ADDED					
FT.				FT. REAMED																																						TYPE		AMT.		TYPE		AMT.	
Kelly Down 22.65 FT.				FT. CORED																																						Gel		2000					
TOTAL 6653 FT.				CUM. HRS. RUN 1																																													
WT OF STRING 150 M LBS.				CONDITION O.B.																																													
DRILLER				WEATHER CONDITIONS																																													
Cynthia Meyer				Cold																																													
11415 1145 1 1/2				11415 1145 1 1/2																																													

DEVIATION RECORD:		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
From	To	REMARKS																	
400	415	Rig Service 1145-1200 1/4 work on 4" mud line																	
415	600	Service packer day same & load on truck																	
600	645	Run in w/ Collars																	
645	715	Slip a cut 40' Dlg line																	
715	915	Run in w/ Bit 21																	
915	1000	work on plug bit																	
1000	1045	Break c.c. & cleaned 40' to Bottom																	
1045	1145	Drilling 8 3/4 Hole																	

MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.
Gel	2000		

WELL UNION PAN AM TRAINER LA E-25
COMPANY UNION OIL
TOOL PUSHER R Adams RIG NO. 19

[illegible][illegible]

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILLER	1	G. Meyer	5788	8	
DRK-MAN	2	K. Leech	4767	8	
CAT-HEAD	3	Vic Richardson	7600	8	
FLR-MAN	4	R. Swan		8	
FLR-MAN	4	Jim Thomas	8921	8	
COOK		O. BERNARDO		9	
COOK'S HLPR.		S. REA		9	
CAMP ATTN.		H. DIX		9	
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35 60 12	SEC. 35	TWP. 60	RGE. 12	W. UNION PAN AM TRAINOR LN E35	No. 65	PROVINCE ALABAMA
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. A	DRILL PIPE NO. SIZE 4 1/2	TOOL JOINT 6" OD	DRILL PIPE GRADE E	TYPE-TMD. XH	MANUFACTURER Edwith 218P	TYPE G.D. FKH
OPERATOR'S REPRESENTATIVE M. Stewart	CONTRACTOR'S TOOL PUSHER R. Adams						

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINOR LN E35**
 COMPANY **UNION OIL**
 TOOL PUSHER **R. Adams** RIG NO. **19**

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cased 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.		MRS. RUN		MUD RECORD						
Morn	Day	Even		STANDS	DP	FT.	Drilling or Core Bit No.	20																												
DRILLING	6 1/4	7 1/2	1 1/2	1	SNGLS. DP	6046.38 FT.	TYPE	WTS	6497	66		6563							65	40			1500	5 1/2	59	6 1/2										
TRIPPING			23 1/4	13	D.C. T OD	391.22 FT.	SIZE	8 3/4																												
RIG MAINTENANCE	1/4	1/4	1/4	3	6 1/4 OD	8843 FT.	NOZZ. SIZE	3-13																												
RIG REPAIRS	1				RMR BODY OD	263 FT.	SERIAL No.	79863																												
HOLE SURVEYS			1/4		STB BODY OD	3.24 FT.	DEPTH IN	6497																												
CONDITIONING MUD					SUBS OD	4.00 FT.	DEPTH OUT																													
CONDITIONING HOLE			3/4		BIT OR C.B.		FT. DRILLED	66																												
Reaming & Cleaning To Bottom	1/4				Kelly Down	2690 FT.	FT. CORED																													
WORKING OR STUCK PIPE					TOTAL	6563 FT.	CUM. HRS. RUN	64																												
FISHING					WT OF STRING	146m LBS.	CONDITION																													
LOST CIRCULATION					DRILLER																															
CASING					WEATHER CONDITIONS																															
WAITING ON CEMENT																																				
HEADING UP AND DRILLING OUT																																				
MISCELLANEOUS	1/4																																			
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS	8	8	8																																	

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cased 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.		MRS. RUN		MUD RECORD						
Morn	Day	Even		STANDS	DP	FT.	Drilling or Core Bit No.	20																												
DRILLING				65	SNGLS. DP	6093.36 FT.	TYPE	WTS	6563	69		6632											1500	5 1/2	59											
TRIPPING				13	D.C. T OD	391.22 FT.	SIZE	8 3/4																												
RIG MAINTENANCE				3	6 1/4 OD	8843 FT.	NOZZ. SIZE	3-13																												
RIG REPAIRS					RMR BODY OD	263 FT.	SERIAL No.	79863																												
HOLE SURVEYS					STB BODY OD	3.24 FT.	DEPTH IN	6497																												
CONDITIONING MUD					SUBS OD	4.00 FT.	DEPTH OUT																													
CONDITIONING HOLE					BIT OR C.B.		FT. DRILLED	135																												
Reaming & Cleaning To Bottom					Kelly Down	3332 FT.	FT. CORED																													
WORKING OR STUCK PIPE					TOTAL	6632 FT.	CUM. HRS. RUN	14																												
FISHING					WT OF STRING	146m LBS.	CONDITION	0.3																												
LOST CIRCULATION					DRILLER																															
CASING					WEATHER CONDITIONS																															
WAITING ON CEMENT																																				
HEADING UP AND DRILLING OUT																																				
MISCELLANEOUS																																				
SUB TOTAL																																				
DAYWORK HOURS																																				
TOTAL HOURS																																				

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of Tour		Drilled This Tour		Cased 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.		MRS. RUN		MUD RECORD						
Morn	Day	Even		STANDS	DP	FT.	Drilling or Core Bit No.	20																												
DRILLING				65	SNGLS. DP	6130.83 FT.	TYPE	WTS	6632	14		6646											1500	5 1/2	59	4 3/4										
TRIPPING				13	D.C. T OD	391.22 FT.	SIZE	8 3/4																												
RIG MAINTENANCE				3	6 1/4 OD	8843 FT.	NOZZ. SIZE	3-13																												
RIG REPAIRS					RMR BODY OD	263 FT.	SERIAL No.	79863																												
HOLE SURVEYS					STB BODY OD	3.24 FT.	DEPTH IN	6497																												
CONDITIONING MUD					SUBS OD	4.00 FT.	DEPTH OUT	6646																												
CONDITIONING HOLE					BIT OR C.B.		FT. DRILLED	149																												
Reaming & Cleaning To Bottom					Kelly Down	15.65 FT.	FT. CORED																													
WORKING OR STUCK PIPE					TOTAL	6646 FT.	CUM. HRS. RUN	15 1/2																												
FISHING					WT OF STRING	146m LBS.	CONDITION	3-3-1																												
LOST CIRCULATION					DRILLER																															
CASING					WEATHER CONDITIONS																															
WAITING ON CEMENT																																				
HEADING UP AND DRILLING OUT																																				

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRINOR LH	No. E-35	PROVINCE NWIT
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT 6" OD	DRILL PIPE GRADE E	TYPE THD. X.H.	PUMPS No. MANUFACTURER TYPE 1. OILWELL 218P 2. G.D. FX4 3.	CASING & LINER RECORD SIZE WT & GR. FROM TO TYPE OF CEMENT CEMENT USED OTHER 95 32.5 0 808 CONST 650SKS 30% Gel Fla	
OPERATOR'S REPRESENTATIVE R. Adam	CONTRACTOR'S TOOL PUSHER R. Adam							

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				
				STANDS	DP	FT.	Drilling or Core Bit No.																											
MORNING TOUR				63	STANDS	DP	FT.	Drilling or Core Bit No.																										
DRILLING				2	SNGLS.	DP	5983.99 FT.	TYPE																										
TRIPPING				13	D.C.	OD	391.22 FT.	SIZE																										
RIG MAINTENANCE				3	RMR BODY	OD	2.63 FT.	SERIAL No.																										
RIG REPAIRS				3	STB BODY	OD	3.43 FT.	DEPTH IN																										
HOLE SURVEYS					SUBS	OD	4.00 FT.	DEPTH OUT																										
CONDITIONING MUD					BIT OR C.B.		FT.	FT. DRILLED																										
CONDITIONING HOLE					Kelly Down		23.49 FT.	FT. CORED																										
Reaming & Cleaning To Bottom					TOTAL		6497 FT.	CUM. HRS. RUN																										
WORKING OR STUCK PIPE					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					
				STANDS	DP	FT.	Drilling or Core Bit No.																												
DAY TOUR				63	STANDS	DP	FT.	Drilling or Core Bit No.																											
FISHING				2	SNGLS.	DP	5983.99 FT.	TYPE																											
LOST CIRCULATION				13	D.C.	OD	391.22 FT.	SIZE																											
CASING				3	RMR BODY	OD	2.63 FT.	SERIAL No.																											
WAITING ON CEMENT				3	STB BODY	OD	3.24 FT.	DEPTH IN																											
HEADING UP AND DRILLING OUT					SUBS	OD	4.10 FT.	DEPTH OUT																											
MISCELLANEOUS					BIT OR C.B.		FT.	FT. DRILLED																											
SUB TOTAL					Kelly Down		23.49 FT.	FT. CORED																											
DAYWORK HOURS					TOTAL		6497 FT.	CUM. HRS. RUN																											
TOTAL HOURS					WT OF STRING		LBS.	CONDITION																											
WIRE LINE RECORD					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					
				STANDS	DP	FT.	Drilling or Core Bit No.																												
EVENING TOUR				63	STANDS	DP	FT.	Drilling or Core Bit No.																											
REEL NO.				2	SNGLS.	DP	5983.99 FT.	TYPE																											
NO. OF LINES				13	D.C.	OD	391.22 FT.	SIZE																											
FEET SLIPPED				3	RMR BODY	OD	2.63 FT.	SERIAL No.																											
FEET CUT OFF					STB BODY	OD	3.24 FT.	DEPTH IN																											
PRESENT LENGTH					SUBS	OD	4.10 FT.	DEPTH OUT																											
TON MI. OF TRIPS SINCE LAST CUT					BIT OR C.B.		FT.	FT. DRILLED																											
CUMULATIVE TON MI. OF TRIPS					Kelly Down		23.49 FT.	FT. CORED																											
					TOTAL		6497 FT.	CUM. HRS. RUN																											
NO. OF DAYS FROM SPUD					WT OF STRING		LBS.	CONDITION																											
CUMULATIVE ROTATING HRS.					DRILLER																														
DAYS SINCE LAST ACCNT.					WEATHER CONDITIONS																														
DRILLER ACCNT. FREE DAYS																																			
MORNING TOUR																																			
DAY TOUR																																			
EVENING TOUR																																			

DRILLING CREW PAYROLL DATA.

WELL **UNION PAN AM TRINOR LH-E-35**
 COMPANY **UNION OIL**
 TOOL PUSHER **R. Adam** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	K. VIG	9220	8		
DRK-MAN	2	G. S2ASZ	8801	8		
CAT-HEAD	3	R. DUPERON	1635	8		
FLR-MAN	4	D. LEON HART		8		
FLR-MAN	4	J. 2 AYORKOWSKI		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. GROFFS	1240	8		
DRK-MAN	2	G. HELL	3352	8		
CAT-HEAD	3	G. HENSCHEL	3287	8		
FLR-MAN	4	G. WALTER	9363	8		
FLR-MAN	4	J. MAYR	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	R. Swan		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	R. Swan		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	R. Swan		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	R. Swan		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7605	8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	R. Swan		8		

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35 62 120	SEC. 35	TWP. 62	RGE. 120	W. UNION PAW 2M TRAINOR 14 E35	No. 13-35	PROVINCE N.W.T.				
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE NO. SIZE 4 1/2	TOOL JOINT 6" OD	DRILL PIPE GRADE F	PUMPS No. MANUFACTURER TYPE 1. OILWELL 21812 2. 61D EXH.	CASING & LINER RECORD	SIZE WT & GR. 95 32.5 808	DEPTH SET FROM TO CONST 6505X5 38 1/2	TYPE OF CEMENT CEMENT USED	OTHER	
OPERATOR'S REPRESENTATIVE W. Stewart	CONTRACTOR'S TOOL PUSHER R. Adams										

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4	4	
TRIPPING	2 3/4	3 1/2	
RIG MAINTENANCE	1 1/4	1 1/4	
RIG REPAIRS			
HOLE SURVEYS		1/4	
CONDITIONING MUD			
CONDITIONING HOLE		2	2
Reaming & Cleaning To Bottom	1		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1	
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	9	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE
FEET SLIPPED	1390
FEET CUT OFF	80
PRESENT LENGTH	4920
TON ML. OF TRIPS SINCE LAST CUT	265
CUMULATIVE TON ML. OF TRIPS	1307
NO. OF DAYS FROM SPUD	29
DAYS SINCE LAST ACCNT.	10
DRILLER ACCNT. FREE DAYS	
MORNING TOUR	75
DAY TOUR	10
EVENING TOUR	200

MORNING TOUR

MORNING TOUR

DAY 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-RY R.P.M.	WT ON BIT 1000#	PUMP PRESS.	LINER SIZE	S.P.M.	MRS. RUN	MUD RECORD
63	STANDS DP	FT.	Drilling or Core Bit No.	19										
1	SNGLS. DP	5952.63 FT.	TYPE	H76.5		6418	32		65	40				
13	D.C. 7 OD	391.22 FT.	SIZE	8 3/4										
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13										
	RMR BODY OD	FT.	SERIAL No.	906175										
	STB BODY OD	2.63 FT.	DEPTH IN	6418										
	SUBS OD	3.24 FT.	DEPTH OUT											
	BIT OR C.B.	4.00 FT.	FT. DRILLED	32										
			FT. REAMED											
	Kelly Down	785 FT.	FT. CORED											
	TOTAL	6450 FT.	CUM. HRS. RUN	4										
	WT OF STRING	145 M. LBS.	CONDITION	1N										
	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.	MRS. RUN	MUD RECORD
63	STANDS DP	FT.	Drilling or Core Bit No.	19										
2	SNGLS. DP	5983.99 FT.	TYPE	H76.5		6420	41		65	40				
13	D.C. 7 OD	391.22 FT.	SIZE	8 3/4										
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	3-13										
	RMR BODY OD	4.00 FT.	SERIAL No.	906175										
	STB BODY OD	3.24 FT.	DEPTH IN	6418										
	SUBS OD	2.63 FT.	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED	79										
			FT. REAMED											
	Kelly Down	2349 FT.	FT. CORED											
	TOTAL		CUM. HRS. RUN	8										
	WT OF STRING	145 M. LBS.	CONDITION	1N										
	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.	MRS. RUN	MUD RECORD
63	STANDS DP	FT.	Drilling or Core Bit No.	19										
2	SNGLS. DP	5983.99 FT.	TYPE	H76.5		6497	-							
13	D.C. OD	391.22 FT.	SIZE	8 3/4										
3	OD	88.43 FT.	NOZZ. SIZE	3-13										
	RMR BODY OD	4.00 FT.	SERIAL No.	906175										
	STB BODY OD	3.24 FT.	DEPTH IN	6418										
	SUBS OD	2.63 FT.	DEPTH OUT											
	BIT OR C.B.		FT. DRILLED	79										
			FT. REAMED											
	Kelly Down	2349 FT.	FT. CORED											
	TOTAL		CUM. HRS. RUN	8										
	WT OF STRING	145 M. LBS.	CONDITION	1N										
	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.	MRS. RUN	MUD RECORD
63	STANDS DP	FT.	Drilling or Core Bit No.	19										
2	SNGLS. DP	5983.99 FT.	TYPE	H76.5		6497	-							
13	D.C. OD	391.22 FT.	SIZE	8 3/4										
3	OD	88.43 FT.	NOZZ. SIZE	3-13										
	RMR BODY OD	4.00 FT.	SERIAL No.	906175										
	STB BODY OD	2.63 FT.	DEPTH IN	6418										
	SUBS OD	3.24 FT.	DEPTH OUT	6497										
	BIT OR C.B.		FT. DRILLED	79										
			FT. REAMED											
	Kelly Down	23.49 FT.	FT. CORED											
	TOTAL	6497 FT.	CUM. HRS. RUN	8										
	WT OF STRING	145 M. LBS.	CONDITION											
	DRILLER													
	WEATHER CONDITIONS													

DRILLING CREW PAYROLL DATA

WELL **UNION PAW 2M TRAINOR 14 E35**
 COMPANY **UNION OIL**
 TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. VIL	9320	8		
DRK-MAN	2	G. STASZ	7801	8		
CAT-HEAD	3	R. D. J. PERROW	1635	8		
FLR-MAN	4	D. LEONHARDT		8		
FLR-MAN	4	J. 2 RYOR HOWES H.		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	H. LL	3352	8		
CAT-HEAD	3	Henschel	3287	8		
FLR-MAN	4	WALTER	9363	8		
FLR-MAN	4	J. MAYR	5428	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	H. Leech	1767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	H. Swan		8		
FLR-MAN	4			8		

COOK	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
COOK	O. Bernardo		9		
COOK'S HLP.	B. Bea		9		
CAMP ATTN.	H. Dix		9		
TOTAL REG HRS.					
TOTAL O.T. HRS.					
TOTAL HOURS					

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION F 35 60 120	SEC. 35	TWP. 60	RGE. 120	W. W.	WELL NAME UNION PAN AM TRAINOR LK	No. E-35	PROVINCE N.M.T.
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 7 1/2	TOOL JOINT 6" OD	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. DILWILL 218P 2. S.D. FXH. 3.	CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 5/8 32.5 0 808 CONST 6505XS 370 Lbl Lla.		
OPERATOR'S REPRESENTATIVE G. M. Wacker	CONTRACTOR'S TOOL PUSHER R. Adams							

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6 1/2	1 1/4	
TRIPPING			
RIG MAINTENANCE	1 1/4	1 1/4	
RIG REPAIRS	1 1/4		
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
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 ACCT.	
DRILLER ACCT. FREE DAYS	
MORNING TOUR	74
DAY TOUR	
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.	MRS. RUN	MUD RECORD
62	STANDS L 5826.04 FT.	Drilling or Core Bit No. 18												
13	SNGLS. DP 7 OD 391.22 FT.	TYPE H76-5	6290	49		6339		65	35					
3	D.C. 6 1/4 OD 88.43 FT.	SIZE 8 3/4												
	RMR BODY OD 2.63 FT.	NOZZ. SIZE 3-13												
	STB BODY OD 3.24 FT.	SERIAL No. 906167												
	SUBS OD 4.00 FT.	DEPTH IN 6280												
	BIT OR C.B.	DEPTH OUT												
		FT. DRILLED 59												
		FT. REAMED												
	Kelly Down 2344 FT.	FT. CORED												
	TOTAL 6339 FT.	CUM. HRS. RUN 8 1/4												
	WT OF STRING 144 M. LBS.	CONDITION 1N												
	DRILLER													
	WEATHER CONDITIONS													
62	STANDS DP 5826.04 FT.	Drilling or Core Bit No. 18												
2	SNGLS. DP 7 OD 391.22 FT.	TYPE H76-5	6339	64		6403		65	3 1/2					
13	D.C. 6 1/4 OD 88.43 FT.	SIZE 8 3/4												
3	RMR BODY OD 2.63 FT.	NOZZ. SIZE 3-13												
	STB BODY OD 3.24 FT.	SERIAL No. 906167												
	SUBS OD 2.63 FT.	DEPTH IN 6280												
	BIT OR C.B.	DEPTH OUT												
		FT. DRILLED 123												
		FT. REAMED												
	Kelly Down 2386 FT.	FT. CORED												
	TOTAL 6403 FT.	CUM. HRS. RUN 16												
	WT OF STRING 145 M. LBS.	CONDITION 0P												
	DRILLER													
	WEATHER CONDITIONS													
63	STANDS DP 5921.11 FT.	Drilling or Core Bit No. 18												
13	SNGLS. DP 7 OD 391.22 FT.	TYPE H76-5	6403	15		6418		65	40					
3	D.C. 6 1/4 OD 88.43 FT.	SIZE 8 3/4												
	RMR BODY OD 2.63 FT.	NOZZ. SIZE 3-13												
	STB BODY OD 3.24 FT.	SERIAL No. 906167												
	SUBS OD 4.00 FT.	DEPTH IN 6280												
	BIT OR C.B.	DEPTH OUT												
		FT. DRILLED 128												
		FT. REAMED												
	Kelly Down 7.34 FT.	FT. CORED												
	TOTAL 6418 FT.	CUM. HRS. RUN 17 1/4												
	WT OF STRING 145 M. LBS.	CONDITION 12-1												
	DRILLER													
	WEATHER CONDITIONS													

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM. TRAINOR LK-E35**COMPANY **UNION OIL**TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	NO.	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	R. Via	3220	8		
DRK-MAN	2	G. SZASZ	8801	8		
CAT-HEAD	3	R. DUPERRON	1635	8		
FLR-MAN	4	D. LEONHARDT		8		
FLR-MAN	4	D. GUNN	2793	8		
CREW	NO.	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HALL	3352	8		
CAT-HEAD	3	G. HENSCHEL	3287	8		
FLR-MAN	4	G. WALTER	7363	8		
FLR-MAN	4	H. GUNN	2794	8		
CREW	NO.	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. MEYER	5788	8		
DRK-MAN	2	H. LEECH	4767	8		
CAT-HEAD	3	V. RICHMOND	7600	8		
FLR-MAN	4	R. SWAN		8		
FLR-MAN	4	Jim. THOMAS	8921	8		
COOK		J. BERNARDO		9		
COOK'S HLPR.		S. REA		9		
CAMP ATTN.		H. DIX		9		
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT										No. F35										PROVINCE N.M.T.																																																																																																																																																															
OPERATOR UNION OIL										LOCATION E 35 60 120										WELL NAME UNION PAN AM TRAIL BLK																																																																																																																																																															
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.										RIG NO. 19										DRILL PIPE STRING NO. 4 1/2										TOOL JOINT 6" OD										DRILL PIPE GRADE E.										PUMPS										CASING & LINER RECORD										DEPTH SET										TYPE OF CEMENT										CEMENT USED										OTHER																																																																															
OPERATOR'S REPRESENTATIVE G. M. Warner										CONTRACTOR'S TOOL PUSHER R. Adams										No. 1										MANUFACTURER GILWELL										TYPE 218P										No. 2										MANUFACTURER G.D.										TYPE FXH										No. 3										MANUFACTURER										TYPE										SIZE 2 1/2										WT & GR. 22.5										FROM D										TO 808										CONST										650 SVS										30% Red Clo									
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)										ROTARY R.P.M.										WT ON BIT 1000#										PUMP PRESS.										LINER SIZE										S.P.M.										MRS. RUN										MUD RECORD																																							
MORNING TOUR										61 STANDS DP 5722.28 FT.										Drilling or Core Bit No. 17										6188										49										6237										65										30										1460										5 1/2										69										74										TIME										1st HR.										3rd HR.										5th HR.										7th HR.																			
DRILLING										7 3/4 5 3/4 1 3/4										13 STANDS DP 391.22 FT.										SIZE 8 3/4										6188										49										6237										65										30										1460										5 1/2										69										74										WEIGHT										9.9										10										9.9										9.9									
TRIPPING										1/2 4 3/4										3 STANDS DP 88.43 FT.										NOZZ. SIZE 3-13										6188										49										6237										65										30										1460										5 1/2										69										74										VISC.										130										135										138										130									
RIG MAINTENANCE										1/4 1/4 1/4										RMR BODY OD 2.63 FT.										SERIAL No. 906190										6188										49										6237										65										30										1460										5 1/2										69										74										W.L.C.C.										4.6										4.2										4.2										4.1									
RIG REPAIRS										1/2										STB BODY OD 3.24 FT.										DEPTH IN 6174										6188										49										6237										65										30										1460										5 1/2										69										74										FLTR. CK.										1/32										1/32										1/32										1/32									
HOLE SURVEYS										1/4										SUBS OD 4.00 FT.										DEPTH OUT 6174										6188										49										6237										65										30										1460										5 1/2										69										74										pH										9.0										9.0										9.5										9.1									
CONDITIONING MUD										1/4										BIT OR C.B. FT. FT. DRILLED 63										6188										49										6237										65										30										1460										5 1/2										69										74										SD. CONT.																																																											
CONDITIONING HOLE										1/4										FT. FT. REAMED 63										6188										49										6237										65										30										1460										5 1/2										69										74																																																																					
Reaming & Cleaning To Bottom										3/4										Kelly Down 15.20 FT.										FT. CORED										6188										49										6237										65										30										1460										5 1/2										69										74																																																											
WORKING OR STUCK PIPE																				TOTAL 6237 FT.										CUM. MRS. RUN										6188										49										6237										65										30										1460										5 1/2										69										74																																																											
FISHING																				WT OF STRING 142 MBS.										CONDITION										6188										49										6237										65										30										1460										5 1/2										69										74																																																											
LOST CIRCULATION																				DRILLER H. G. Miller																				6188										49										6237										65										30										1460										5 1/2										69										74																																																											
CASING																				WEATHER CONDITIONS Cold																				6188										49										6237										65										30										1460										5 1/2										69										74																																																											
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)										ROTARY R.P.M.										WT ON BIT 1000#										PUMP PRESS.										LINER SIZE										S.P.M.										MRS. RUN										MUD RECORD																													
HEADING UP AND DRILLING OUT																				61 STANDS DP 5762.88 FT.										Drilling or Core Bit No. 17										6237										43										6280										65										30										1480										5 1/2										59										73										TIME										1st HR.										3rd HR.										5th HR.										7th									

DRILLING CREW PAYROLL DATA

WELL UNION PAN AM TRAINWOP LK E-3

COMPANY union oil

TOOL PUSHER H. Adams RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST CODE
				REG	OT	
DRILLER	1	G MEYER	5788	8		
DRK-MAN	2	H LEECH	4767	8		
CAT-HEAD	3	V. RICHMOND	7600	8		
FLR-MAN	4	WILE FLECKIE	2013	8		
FLR-MAN	4	Tom THOMAS	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	H. VIL	9220	8		
DRK-MAN	2	E. STASZ	8801	8		
CAT-HEAD	3	B. DUFEARD	1635	8		
FLR-MAN	4	D. LIONHARDT		8		
FLR-MAN	4	D. GUNW	2793	8		

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILLER	1	G CRAFTS	1240	8	
DRK-MAN	2	G HILL	3352	8	
CAT-HEAD	3	G Henschel	3287	8	
FLR-MAN	4	G WALTER	9363	8	
FLR-PRSN	4	H GUNDA	2794	8	

COOK	O BERNARD	9	
COOK'S HLPR.	S REA	9	
CAMP ATTN.	H DIX	9	
		TOTAL REG. MRS.	TOTAL O.T. HRS.

DATE JAN 14/66

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E. 35 60° 120°	SEC. 25	TWP. 60	RGE. 120	W. W.	WELL NAME UNION PAN AM TRAINER LAKE E35	No. E.35	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 2 1/2	TOOL JOINT X.H.	OD E.	DRILL PIPE GRADE E.	PUMPS No. MANUFACTURER TYPE 1. OILWELL 2 R.P. 2. G.D. F.H.	CASING & LINER RECORD SIZE WT & GR. FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 5/8 32.5 0 808 CONST. 650555 38% bel Rlo.	
OPERATOR'S REPRESENTATIVE <i>G.M. W.</i>	CONTRACTOR'S TOOL PUSHER <i>R. Adams</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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve		STANDS	DP	FT.	Drilling or Core Bit No.	16	6086	49	6135																							
DRILLING	7 3/4	6 2 3/4		2	SNGLS. DP	5606.75	TYPE	174N3																										
TRIPPING		1 2 1/4		13	D.C. 7 OD	391.22	SIZE	8 3/4																										
RIG MAINTENANCE	1/4	1/4	1/4	3	6 1/4 OD	88.43	NOZZ. SIZE	3-13																										
RIG REPAIRS					RMR BODY OD	3.24	SERIAL No.	905323																										
HOLE SURVEYS	1/4				STB BODY OD	2.63	DEPTH IN	6060																										
CONDITIONING MUD					SUBS OD	4.00	DEPTH OUT																											
CONDITIONING HOLE	1				BIT OR C.B.		FT. DRILLED	75																										
Reaming & Cleaning To Bottom			3/4		Kelly Down	38.73	FT. CORED																											
WORKING OR STUCK PIPE					TOTAL	6135	FT.	CUM. MRS. RUN	12 1/4																									
FISHING					WT OF STRING	1400	LBS.	CONDITION	1N																									
LOST CIRCULATION					DRILLER	<i>Quinlan Meyer</i>																												
CASING					WEATHER CONDITIONS	<i>Cloud</i>																												
WAITING ON CEMENT																																		
HEADING UP AND DRILLING OUT																																		
MISCELLANEOUS																																		
SUB TOTAL																																		
DAYWORK HOURS																																		
TOTAL HOURS	8	8	8																															
WIRE LINE RECORD																																		
REEL NO.																																		
NO. OF LINES	8																																	
FEET SLIPPED	40																																	
FEET CUT OFF	40																																	
PRESENT LENGTH	4960																																	
TON MI. OF TRIPS SINCE LAST CUT	396																																	
CUMULATIVE TON MI. OF TRIPS	982																																	
NO. OF DAYS FROM SPUD	25																																	
CUMULATIVE ROTATING HRS.	233 1/2																																	
DAYS SINCE LAST ACCT.	7																																	
DRILLER ACCT. FREE DAYS																																		
MORNING TOUR	19	7																																
DAY TOUR	7	2																																
EVENING TOUR	7																																	

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINER LAKE E35**COMPANY **UNION OIL**TOOL PUSHER **R Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	~~R. H. G. MEYER~~	5788	8		
DRK. MAN	2	~~G. S. AS2~~	5801	8		
CAT. HEAD	3	~~R. DUPERON~~	1635	8		
FLR. MAN	4	~~E. WILF FLECKIE~~	2013	8		
FLR. MAN	4	~~Jim THOMAS~~	8921	8		
DRILLER	1	H. VIG	9320	8		
DRK. MAN	2	G. S. AS2	5801	8		
CAT. HEAD	3	R. DUPERON	1635	8		
FLR. MAN	4	D. LEONHARDT		8		
FLR. MAN	4	D. GUNN	2773	8		
DRILLER	1	G. CROFTS	1240	8		
DRK. MAN	2	G. HILL	3352	8		
CAT. HEAD	3	G. HEUSCHEL	3287	8		
FLR. MAN	4	G. WALTER	9363	8		
FLR. MAN	4	H. GUNN		8		
COOK		O. BERNARDO		9		
COOK'S HLPR.		S. REA		9		
CAMP ATTN.		H. DIX		9		
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT										PROVINCE																					
OPERATOR		LOCATION		LS.D.	SEC.	TWF.	RGE.	W.	WELL NAME	No.	PROVINCE																				
Union Oil		F		35	60	120			Union gas Am. Trainer Lake	F-35	N.W.T.																				
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	No.	MANUFACTURER	TYPE	CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	TO	TYPE OF CEMENT	CEMENT USED	OTHER														
PETER BAWDEN DRILLING (1964) LTD.		19	4 1/2	TYPE THD. XH		F	1.	Olwell	218P		8 3/8	32.5	0	808	Pratt	650 lbs	Calh														
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
M. M. Harker		R. Adam																													
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.		MRS. RUN		MUD RECORD			
		58 STANDS DP		15		6006		39		6045		65		30		65		30		1500		5 1/2		59		7 1/2		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
DRILLING		2 SNGLS. DP		551336 FT.		TYPE 5475														PUMP No. 1		1500		5 1/2		59		7 1/2		WEIGHT 10. 10. 10. 10.	
TRIPPING		13 D.C. 7" OD		391.22 FT.		SIZE 8 3/4														PUMP No. 2								VISC. 82 100 152 15			
RIG MAINTENANCE		3 6 1/4 OD		88.43 FT.		NOZZ. SIZE 3-13																						W.L.-C.C. 4.8 4.8 4.8 4.8			
RIG REPAIRS		RMR BODY OD		20.95 FT.		SERIAL No. 916751																						FLTR. CK. 242 242 242 242			
HOLE SURVEYS		STB BODY OD		3.24 FT.		DEPTH IN 5890																						pH 10 10. 10. 10.			
CONDITIONING MUD		SUBS OD		2.63 FT.		DEPTH OUT																						SD. CONT.			
CONDITIONING HOLE		BIT OR C.B.				FT. DRILLED 155																						MUD & CHEMICALS ADDED			
Reaming & Cleaning To Bottom		Kelly Down		2617 FT.		FT. CORED																						TYPE AMT. TYPE AMT.			
WORKING OR STUCK PIPE		TOTAL		6045 FT.		CUM. HRS. RUN 17 1/4																						GET 3600			
FISHING		WT OF STRING		58 m. LBS.		CONDITION 11																						CMC 50			
LOST CIRCULATION		DRILLER		L. M. Meyer																								CAUSTIC 100			
CASING		WEATHER CONDITIONS		Cold																											
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.		MRS. RUN		MUD RECORD			
HEADING UP AND DRILLING OUT		59 STANDS DP		15 16		6045		15		6060		65		30		65		30		1500		5 1/2		59		7 1/2		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
MISCELLANEOUS		13 SNGLS. DP		551336 FT.		TYPE 5475														PUMP No. 1		1500		5 1/2		59		7 1/2		WEIGHT 10. 10.	
SUB TOTAL		3 D.C. 7" OD		391.22 FT.		SIZE 8 3/4														PUMP No. 2								VISC. 115 130			
DAYWORK HOURS		3 6 1/4 OD		88.43 FT.		NOZZ. SIZE 3-13																						W.L.-C.C. 5.0 4.8			
TOTAL HOURS		RMR BODY OD		20.95 FT.		SERIAL No. 916751																						FLTR. CK. 242 242			
WIRE LINE RECORD		STB BODY OD		3.24 FT.		DEPTH IN 5890																						pH 9.0 9.0			
NO. OF LINES		SUBS OD		2.63 FT.		DEPTH OUT 6060																						SD. CONT.			
FEET SLIPPED		BIT OR C.B.				FT. DRILLED 170																									

[illegible]

DAILY DRILLING REPORT										No. F-35 PROVINCE N.W.T.																					
OPERATOR Union D.I.		LOCATION F		LSD. 35		SEC. 60		TWP. 120		RGE. Union 99th Am Trainer Lake		WELL NAME F-35		No.		PROVINCE															
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19		DRILL PIPE STR. NO. 442 NO. 442		TOOL JOINT TYPE THD. XH		OD F		DRILL PIPE GRADE F		PUMPS		CASING & LINER RECORD		SIZE WT & GR.		DEPTH SET FROM TO		TYPE OF CEMENT		CEMENT USED		OTHER							
OPERATOR'S REPRESENTATIVE G. M. G. G.		CONTRACTOR'S TOOL PUSHER R. Adams		No.		MANUFACTURER		TYPE		1. D. W. H.		2. B. D.		3. F. H.		PUMP No. 1		PUMP No. 2		PUMP PRESS.		LINER SIZE		S.P.M.		MRS. RUN					
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.		MRS. RUN		MUD RECORD	
MORNING TOUR		57 STANDS DP		5358.25 FT.		Drilling or Core Bit No. 14		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TIME		1st HR. 2nd HR. 3rd HR. 4th HR. 5th HR. 6th HR. 7th HR.	
DRILLING		3 1/4		13 1/2		14 1/2		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		WEIGHT		9.8 9.9 9.9	
TRIPPING		13 1/4		3 1/2		3 1/2		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		VISC.		75 9.5 10.5	
RIG MAINTENANCE		1/4		1/4		1/4		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		W.L.C.C.		5.0 14.8 4.8	
RIG REPAIRS		1/4		1/4		1/4		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		FLTR. CK.		2/12 2/12 3/12	
HOLE SURVEYS		1/4		1/4		1/4		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		pH		10.5 10.5 10.5	
CONDITIONING MUD		1/2		1/2		1/2		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		SD. CONT.			
CONDITIONING HOLE		1/2		1/2		1/2		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		MUD & CHEMICALS ADDED			
Rooming & Cleaning To Bottom		2 1/4		2 1/4		2 1/4		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
WORKING OR STUCK PIPE								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
FISHING								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
LOST CIRCULATION								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
CASING								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
WAITING ON CEMENT								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
HEADING UP AND DRILLING OUT								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
MISCELLANEOUS		1		1		1		5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
SUB TOTAL								5818		72		5890		65		40		PUMP No. 1		1450		5 1/2		59		4		TYPE		AMT.	
DAYWORK HOURS								5818		72		5890		65		40		PUMP No. 1		1450											

WELL <u>Union pan Am. Trainer Lake F-35</u>									
COMPANY <u>Union Oil</u>									
TOOL PUSHER <u>D. Adams</u> RIG NO. <u>19</u>									
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE			
DRILL-ER	1	<u>G. Meyer</u>	<u>5788</u>	<u>8</u>					
DRK-MAN	2	<u>K. Leech</u>	<u>4767</u>	<u>8</u>					
CAT-HEAD	3	<u>Vic. Richmond</u>	<u>7608</u>	<u>8</u>					
FLR-MAN	4	<u>Wilt Fleckie</u>	<u>2013</u>	<u>8</u>					
FLR-MAN	4	<u>Jim Thomas</u>	<u>8921</u>	<u>8</u>					
<u>Ken Leech slipped on floor</u>									
<u>fell and strained Right</u>									
<u>shoulder</u>									
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE			
DRILL-ER	1	<u>K. VIG</u>	<u>9320</u>	<u>8</u>					
DRK-MAN	2	<u>G. SZASZ</u>	<u>8801</u>	<u>8</u>					
CAT-HEAD	3	<u>R. DUPERON</u>	<u>1636</u>	<u>8</u>					
FLR-MAN	4	<u>D. LEON HARDT</u>		<u>8</u>					
FLR-MAN	4	<u>D. GUNN</u>	<u>2793</u>	<u>8</u>					
CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE			
DRILL-ER	1	<u>G. CROFTS</u>	<u>1240</u>	<u>8</u>					
DRK-MAN	2	<u>G. HOLL</u>	<u>3352</u>	<u>8</u>					
CAT-HEAD	3	<u>G. HENSCHEL</u>	<u>3287</u>	<u>8</u>					
FLR-MAN	4	<u>G. WALTER</u>	<u>9363</u>	<u>8</u>					
FLR-MAN	4	<u>H. GUNN</u>		<u>8</u>					
COOK		<u>O. BERNARDO</u>		<u>9</u>	<u>4</u>				
COOK'S HLPR.		<u>Joe Bea</u>		<u>9</u>					
CAMP ATTN.		<u>H. DIX</u>		<u>9</u>	<u>4</u>				
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS			

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[illegible]

DRILLING CREW PAYROLL DATA

[illegible]

DATE: Jan 9/67

DAILY DRILLING REPORT

OPERATOR Union Oil		LOCATION E 35	SEC. 60	TWP. 120	RGE. W.	WELL NAME Union gas Am Train Lake	No. E-35	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. 11H	OD F	DRILL PIPE GRADE F	PUMPS No. MANUFACTURER TYPE 1. Olwell 218 P 2. E. D. EXH	
OPERATOR'S REPRESENTATIVE G. M. Clarke		CONTRACTOR'S TOOL PUSHER R. Adams		CASING & LINER RECORD		SIZE WT & GR. DEPTH SET TO TYPE OF CEMENT CEMENT USED OTHER 9 5/8 32.5 0 808 Cement 650 3/4 3% Cal/2		

TIME DISTRIBUTION—HOURS			
	Mon	Tue	Wed
DRILLING	6 1/2	2 1/2	
TRIPPING	3	1 1/2	
RIG MAINTENANCE	1 1/4	1 1/4	
RIG REPAIRS	1 1/4	1 1/4	
HOLE SURVEYS	1 1/4		
CONDITIONING MUD			
CONDITIONING HOLE	1 1/2		
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FINISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	

WIRE LINE RECORD			
REEL NO.	NO. OF LINES	SIZE	
	FEET SLIPPED		
	FEET CUT OFF		
	PRESENT LENGTH	5000	
	TON MI. OF TRIP SINCE LAST CUT	453	
	CUMULATIVE TON MI. OF TRIPS	453	
NO. OF DAYS FROM SPUD	20		
CUMULATIVE ROTATING HRS.	162 1/2		
DAYS SINCE LAST ACCNT.	102		
DRILLER ACCNT. FREE DAYS			
MORNING TOUR	192		
DAY TOUR	68		
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	
50	STANDS DP	4699.74 FT.	TYPE	OSC-16	5073	152		5225																	
13	SINGLS. DP	591.22 FT.	SIZE	8 3/4																					
3	D.C. 7" OD	58.43 FT.	NOZZ. SIZE	5-13																					
	RMR BODY OD	20.95 FT.	SERIAL No.	68643																					
	STB BODY OD	3.24 FT.	DEPTH IN	4973																					
	SUBS OD	2.63 FT.	DEPTH OUT																						
	BIT OR C.B.		FT. DRILLED	252																					
			FT. REAMED																						
	Kelly Down	14.77 FT.	FT. CORED																						
	TOTAL	5225 FT.	CUM. HRS. RUN	11 1/2																					
	WT OF STRING	126 7/8 LBS.	CONDITION	O.B.																					
DRILLER Conrad Meyer																									
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	
50	STANDS DP	4762.87 FT.	TYPE	OSC-16	5225	52		5287																	
13	SINGLS. DP	391.22 FT.	SIZE	8 3/4																					
3	D.C. 7" OD	88.43 FT.	NOZZ. SIZE	5-13																					
	RMR BODY OD	20.95 FT.	SERIAL No.	68643																					
	STB BODY OD	3.24 FT.	DEPTH IN	4973																					
	SUBS OD	2.63 FT.	DEPTH OUT																						
	BIT OR C.B.		FT. DRILLED	314																					
			FT. REAMED																						
	Kelly Down	17.76 FT.	FT. CORED																						
	TOTAL	5287 FT.	CUM. HRS. RUN	14																					
	WT OF STRING	126 MLBS.	CONDITION	1-2-1																					
DRILLER R. M. Nig																									
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	
50	STANDS DP	4762.87 FT.	TYPE	54T5	5287	-		5287																	
13	SINGLS. DP	399.22 FT.	SIZE	8 3/4																					
2	D.C. OD	88.43 FT.	NOZZ. SIZE	3-12																					
	RMR BODY OD	20.95 FT.	SERIAL No.	997322																					
	STB BODY OD	3.24 FT.	DEPTH IN	5787																					
	SUBS OD	2.63 FT.	DEPTH OUT																						
	BIT OR C.B.		FT. DRILLED																						
			FT. REAMED																						
	Kelly Down	17.76 FT.	FT. CORED																						
	TOTAL	5287 FT.	CUM. HRS. RUN																						
	WT OF STRING	126 MLBS.	CONDITION																						
DRILLER SEA Puffa																									
WEATHER CONDITIONS																									

DRILLING CREW PAYROLL DATA

WELL **Union gas Am Train E-35**COMPANY **Union Oil**TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	W. Richmond	7600	8		
FLR-MAN	4	W. Fieckie	2015	8		
FLR-MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	H. Vig	9220	8		
DRK-MAN	2	G. SZASZ	7801	8		
CAT-HEAD	3	R. DUPERRON	1635	8		
FLR-MAN	4	D. LEONHARDT		8		
FLR-MAN	4	D. GUNN	2793	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Crofts	1240	8		
DRK-MAN	2	G. Hill	3352	8		
CAT-HEAD	3	G. Henschel	3287	8		
FLR-MAN	4	G. Walter	9363	8		
FLR-MAN	4	H. Gunn		8		

COOK	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
	O. Bernardo		9		
COOK'S HLPR.	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
	H. Dix		9		

TOTAL REG HRS. TOTAL O.T. HRS. TOTAL HOURS

REPORT No. **48 20**DATE **Jan 8/67**DATE **Jan 8/67**

DAILY DRILLING REPORT

DRILLING CREW PAYROLL DATA

OPERATOR UNION OIL		LOCATION E 35 60 120		SEC. E 35		TWP. 60		RGE. 120		W. W		WELL NAME UNION PAN AM TRAILOR		No. E 35		PROVINCE NEW	
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. SIZE AT 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. Delmar 218P 2. 65 F14 3.		CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 3/4 32.5 808 Conk 6500 37.0 Calico								
OPERATOR'S REPRESENTATIVE R. Adams		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				
				STANDS	DP	FT.	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																
MORNING TOUR				47	STANDS DP	FT.	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																
DRILLING				1	STANDS DP	FT.	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																
TRIPPING				13	D.C. 7 OD	391.22 FT.	SIZE	8 3/4	2-13	997393	4747	4973	226	13	188	118	188	118	118															
RIG MAINTENANCE				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
RIG REPAIRS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
HOLE SURVEYS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
CONDITIONING MUD				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
CONDITIONING HOLE				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
Reaming & Cleaning to Bottom				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
WORKING OR STUCK PIPE				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
FISHING				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
LOST CIRCULATION				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
CASING				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
WAITING ON CEMENT				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
HEADING UP AND DRILLING OUT				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
MISCELLANEOUS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
SUB TOTAL				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
DAYWORK HOURS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
TOTAL HOURS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
WIRE LINE RECORD				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
REEL NO.				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
NO. OF LINES				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
FEET SLIPPED				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
FEET CUT OFF				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
PRESENT LENGTH				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
TON MI. OF TRIPS SINCE LAST CUT				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
CUMULATIVE TON MI. OF TRIPS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
NO. OF DAYS FROM SPUD				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
CUMULATIVE ROTATING HRS.				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
DAYS SINCE LAST ACCNT.				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
DRILLER ACCNT. FREE DAYS				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
MORNING TOUR				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
DAY TOUR				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
EVENING TOUR				3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															

NO. DRILLING ASSEMBLY		BIT 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				
STANDS	DP	FT.	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																
47	STANDS DP	FT.	Drilling or Core Bit No.	TYPE	SIZE	NOZZ. SIZE	SERIAL No.	DEPTH IN	DEPTH OUT	FT. DRILLED	FT. REAMED	FT. CORED <td>CUM. HRS. RUN</td> <td>CONDITION</td> <td colspan="10"></td>	CUM. HRS. RUN	CONDITION																
1	STANDS DP	FT.	Drilling or Core Bit No.	TYPE	SIZE	NOZZ. SIZE	SERIAL No.	DEPTH IN	DEPTH OUT	FT. DRILLED	FT. REAMED	FT. CORED <td>CUM. HRS. RUN</td> <td>CONDITION</td> <td colspan="10"></td>	CUM. HRS. RUN	CONDITION																
13	D.C. 7 OD	391.22 FT.	SIZE	8 3/4	2-13	997393	4747	4973	226	13	188	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	4973	226	13	188	118	118	118	118	118															
3	6 1/2 OD	88.43 FT.	NOZZ. SIZE	2-13	997393	4747	49																							

DAILY DRILLING REPORT										No.		PROVINCE																			
OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.		PROVINCE																			
UNION OIL		E		35	60	120			UNION PAN AM TRAILOR TRAIL	E 35		NW T																			
CONTRACTOR		RIG NO.	DRILL PIPE STRING NO. & SIZE	TOOL JOINT	OD	DRILL PIPE GRADE	No.	MANUFACTURER	TYPE	CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM TO	TYPE OF CEMENT	CEMENT USED	OTHER															
PETER BAWDEN DRILLING (1964) LTD.		19	4 1/2	TYPE THD. XH		E	1.	Calwell	218P		9 3/4	32.5	808	Conc	650 lbs	370 Calwell															
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																													
G. M. Wark		R. Arund																													
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.		MRS. RUN		MUD RECORD	
				STANDS DP FT.		Drilling or Core Bit No. TYPE		4720		27		4747						65		40		1450		5 1/2		59		TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
DRILLING				2 SNGLS. DP 4200 18 FT.		TYPE S3T5		4720		27		4747						65		40		1450		5 1/2		59		WEIGHT 9.7			
TRIPPING				13 D.C. 7 OD 391 22 FT.		SIZE 8 3/4		4720		27		4747						65		40		1450		5 1/2		59		VISC. 5.6			
GIG MAINTENANCE				3 6 1/4 OD 88 43 FT.		NOZZ. SIZE 2 1/2		4720		27		4747						65		40		1450		5 1/2		59		W.L.C.C. 4.4			
RIG REPAIRS				RMR BODY OD 20 9.5 FT.		SERIAL No. 906581		4720		27		4747						65		40		1450		5 1/2		59		FLTR. CK. 7/32			
HOLE SURVEYS				STB BODY OD 3.24 FT.		DEPTH IN 4208		4720		27		4747						65		40		1450		5 1/2		59		pH 9.5			
CONDITIONING MUD				SUBS OD 2.63 FT.		DEPTH OUT 4747		4720		27		4747						65		40		1450		5 1/2		59		SD. CONT.			
CONDITIONING HOLE				BIT OR C.B. FT.		FT. DRILLED 439		4720		27		4747						65		40		1450		5 1/2		59					
Reaming & Cleaning To Bottom				Kelly Down 403.5 FT.		FT. CORED		4720		27		4747						65		40		1450		5 1/2		59					
WORKING OR STUCK PIPE				TOTAL 4747 FT.		CUM. MRS. RUN 18 1/2		4720		27		4747						65		40		1450		5 1/2		59					
FISHING				WT OF STRING 116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
LOST CIRCULATION				DRILLER		WEATHER CONDITIONS		4720		27		4747						65		40		1450		5 1/2		59					
CASING				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
WAITING ON CEMENT				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
HEADING UP AND DRILLING OUT				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
MISCELLANEOUS				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
SUB TOTAL				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
DAYWORK HOURS				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
TOTAL HOURS				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
WIRE LINE RECORD				116 M. LBS.		CONDITION		4720		27		4747						65		40		1450		5 1/2		59					
REEL NO. 1121				116 M. LBS.		CONDITION		4720																							

E 35

WELL UNION PAN AM TRINOR LAYC

COMPANY UNION OIL

TOOL PUSHER R. Adams RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILL-ER	1	G CROFTS	1240			
DRK-MAN	2	G HILL	3352			
CAT-HEAD	3	G Henschel	3287			
FLR-MAN	4	G WALTER	9363			
FLR-MAN	4	M PALLO	6759			
M PALLO SPRAWED LEFT WRIST, HOLDING BOUNCING SINGLE on RAMP						

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILL-ER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic. Richmond	7600	8		
FLR-MAN	4	WILF Fleckie	2013	8		
FLR-MAN	4	Jim Thomas	8921	8		
H. Gunn 8						

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILL-ER	1	K. VIG	9320	8		
DRK-MAN	2	G. SZASZ	8801	8		
CAT-HEAD	3	R. DUPERRON	1635	8		
FLR-MAN	4	D LEONHARDI		8		
FLR-MAN	4	D. GUNN	2793	8		
COOK O BERNARDO 9						
COOK'S HLF.R. A TRIP 9						
CAMP ATTN. H DIX 9						
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS	

DAILY DRILLING REPORT										PROVINCE																													
OPERATOR		LOCATION		SEC.	TWP.	RGE.	W.	WELL NAME		No.																													
UNION OIL		E 35		60	120			UNION PAN AM TRAINER AKE		E 35	NWT																												
CONTRACTOR		RIG NO.	DRILL PIPE	TOOL JOINT	OD	DRILL PIPE GRADE	No.	MANUFACTURER	TYPE	CASING & LINER RECORD	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER																									
PETER BAWDEN DRILLING (1964) LTD.		19	4 1/2	TYPE THD. XH		E	1.	Outwell	218P	9 3/4 32.5	808	Crack	6500 lb 370 lb																										
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																																					
G. M. W. W. W.		R. Adams																																					
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.		MRS. RUN		MUD RECORD									
				STANDS DP		Drilling or Core Bit No.		10		4308 56		4364						65		40		1450		5 1/2 59				TIME		1st HR.		3rd HR.		5th HR.		7th HR.			
DRILLING				2 31 1/2 4 6 3/4		2 SINGLS. DP		38 24 40 FT.		TYPE		5375										PUMP No. 1		6				WEIGHT		9		5		5		9			
TRIPPING				3 3/4		13 D.C. 7 OD		391 22 FT.		SIZE		8 3/4										PUMP No. 2		6				VISC.		5		5		5					
RIG MAINTENANCE				1 1/4 1/4 1/4		3 6 1/8 OD		88 43 FT.		NOZZ. SIZE		2-13														W.L.C.C.		TRIP		5		5		5					
RIG REPAIRS						RMR BODY OD		20 95 FT.		SERIAL No.		706581														FLTR. CK.		9		9		9		9					
HOLE SURVEYS						STB BODY OD		263 FT.		DEPTH IN		4308														pH													
CONDITIONING MUD						SUBS OD		324 FT.		DEPTH OUT																SD. CONT.													
CONDITIONING HOLE						BIT OR C.B.				FT. DRILLED		56														MUD & CHEMICALS ADDED													
Reaming & Cleaning To Bottom				1 1/4		Kelly Down		2313 FT.		FT. CORED																TYPE		AMT.		TYPE		AMT.							
WORKING OR STUCK PIPE						TOTAL		4364 FT.		CUM. HRS. RUN		23 1/4																											
FISHING						WT OF STRING		112 MBS.		CONDITION		OB																											
LOST CIRCULATION						DRILLER		R. Adams																															
CASING						WEATHER CONDITIONS		W																															
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.		MRS. RUN		MUD RECORD							
HEADING UP AND DRILLING OUT						43 STANDS DP		4043.56 FT.		Drilling or Core Bit No.		10								65		350		1500		5 1/2 59		7 3/4		TIME		1st HR.		3rd HR.		5th HR.		7th HR.	
MISCELLANEOUS						SINGLS. DP		FT.		TYPE		5375										40						WEIGHT		9.5		9.5		9.5		9.5			
SUB TOTAL						13 D.C. 7 OD		391.22 FT.		SIZE		8 3/4														W.L.C.C.		52		5.6		5.6		5.6					
DAYWORK HOURS						3 6 1/4 OD		88.43 FT.		NOZZ. SIZE		2-13														FLTR. CK.		232		232		232		232					
TOTAL HOURS				8 88		RMR BODY OD		20.95 FT.		SERIAL No.		906581														pH		9.5		9.5		9.5		9.5					
WIRE LINE RECORD						STB BODY OD		263 FT.		DEPTH IN		4308														SD. CONT.													
REEL NO.				1121																																			

[illegible]

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35	SEC. 60	TWP. 120	RGE. W.	WELL NAME UNION PAN AM TRINOR LAKE	No. E 35	PROVINCE NWT
CONTRACTOR PETER BAWCEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. Delaware 218 P 2. 65 EXH 3.	CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 3/4 32.5 0 808 Cast 650 str 3B Laker
OPERATOR'S REPRESENTATIVE R. Adams		CONTRACTOR'S TOOL PUSHER R. Adams					

TIME DISTRIBUTION—HOURS

	Mon	Tue	Wed	Thurs	Fri	Sat	Sun
DRILLING	1 1/2	7 1/4	4				
TRIPPING	1		3				
RIG MAINTENANCE		1/4					
RIG REPAIRS	4 1/2						
MOLE SURVEYS			1/2				
CONDITIONING MUD							
CONDITIONING HOLE			1/2				
Reaming & Cleaning To Bottom							
WORKING OR STUCK PIPE							
FISHING							
LOST CIRCULATION							
CASING							
WAITING ON CEMENT							
HEADING UP AND DRILLING OUT							
MISCELLANEOUS			1/2				
SUB TOTAL							
DAYWORK HOURS							
TOTAL HOURS	8	8	8				

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
37	STANDS DP	FT.												
1	SNGLS. DP	35090 FT.												
13	D.C. OD	391.22 FT.												
3	6 1/2 OD	88.43 FT.												
	RMR BODY OD	2095 FT.												
	STB BODY OD	2095 FT.												
	SUBS OD	263 FT.												
	BIT OR C.B.	324 FT.												
	Kelly Down	2206 FT.												
	TOTAL	4038 FT.												
	WT OF STRING	1100 LBS.												
	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
39	STANDS DP	FT.												
1	SNGLS. DP	5678.26 FT.												
13	D.C. 7 OD	391.22 FT.												
3	6 1/2 OD	88.43 FT.												
	RMR BODY OD	2095 FT.												
	STB BODY OD	2095 FT.												
	SUBS OD	3.24 FT.												
	BIT OR C.B.	FT.												
	Kelly Down	34.27 FT.												
	TOTAL	4738 FT.												
	WT OF STRING	1100 LBS.												
	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
40	STANDS DP	3761.27 FT.												
	SNGLS. DP	FT.												
12	D.C. 7 OD	291.22 FT.												
3	6 1/2 OD	88.43 FT.												
	RMR BODY OD	2095 FT.												
	STB BODY OD	2095 FT.												
	SUBS OD	2.63 FT.												
	BIT OR C.B.	3.24 FT.												
	Kelly Down	29.26 FT.												
	TOTAL	4308 FT.												
	WT OF STRING	1120 LBS.												
	DRILLER													
	WEATHER CONDITIONS													

DRILLING CREW PAYROLL DATA

E 35

WELL	UNION PAN AM TRINOR LAKE					
COMPANY	UNION OIL					
TOOL PUSHER	R. Allen				RIG NO.	19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	G CROFTS	1240	8		
DRK-MAN	2	G HILL	3352	8	1	
CAT-HEAD	3	G Henschel	3287	8	1	
FLR-MAN	4	G WALTER	9263	8	1	
FLR-MAN	4	M PALLO	6759			
		O.T. ~~work~~				
		CHANGE HEADS & LINER				
		218 P				

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	W. Fleckie	2013	8		
FLR-MAN	4	Jim Thomas	8921	8		
		H. Gunn		8		

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	H. VIG	9320	8		
DRK-MAN	2	G. S. A. S. Z	8801	8		
CAT-HEAD	3	R. DUPERON	1635	8		
FLR-MAN	4	D. LEONHART	2793	8		
FLR-MAN	4	D. GUNN		8		

COOK	A TRIP	9		
COOK'S HLPR.				
CAMP ATTN.	H. Dix	9		
			TOTAL REG HRS.	TOTAL O.T. HRS.
				TOTAL HOURS

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 35	SEC. 60	TWP. 120	RGE. W.	WELL NAME UNION PAN AM TRINOR	No. E 35	PROVINCE NWT
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE STRING NO. SIZE 4 1/2	TOOL JOINT TYPE THD. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. Oilwell 218P 2. 63 EXK 3.	CASING & LINER RECORD SIZE WT & GR. FROM TO TYPE OF CEMENT CEMENT USED OTHER 9 3/4 32.5 808 Cement 65000 320 CEMENT
OPERATOR'S REPRESENTATIVE R. Adams		CONTRACTOR'S TOOL PUSHER R. Adams					

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	1 3/4	1 1/2	1 1/4
TRIPPING	1 1/2	1 1/4	1 1/4
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS	1/4	1/4	1/4
HOLE SURVEYS	1/4	1/4	1/4
CONDITIONING MUD	1/4	1/4	1/4
CONDITIONING HOLE	1/4	1/4	1/4
Reaming & Cleaning To Bottom	2 3/4	1/4	1/4
WORKING OR STUCK PIPE	1/4	1/4	1/4
FISHING	1/4	1/4	1/4
LOST CIRCULATION	1/4	1/4	1/4
CASING	1/4	1/4	1/4
WAITING ON CEMENT	1/4	1/4	1/4
HEADING UP AND DRILLING OUT	1/4	1/4	1/4
MISCELLANEOUS	1/4	1/4	1/4
SUB TOTAL	8 1/2	8 1/2	8 1/2
DAYWORK HOURS	8 1/2	8 1/2	8 1/2
TOTAL HOURS	8 1/2	8 1/2	8 1/2

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	25750
PRESENT LENGTH	2250
TON MI. OF TRIPS SINCE LAST CUT	96
CUMULATIVE TON MI. OF TRIPS	239 1/2
NO. OF DAYS FROM SPUD	15
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCT.	97
DRILLER ACCT. FREE DAYS	
MORNING TOUR	
DAY TOUR	187
EVENING TOUR	63

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.	MRS. RUN	MUD RECORD
36	STANDS DP 3415 37 FT.	Drilling or Core Bit No. 8	3907	39		3946		320	40	1225	5	58		TIME 1st HR. 3rd HR. 5th HR. 7th HR. WEIGHT 9.6 9.6 9.6 9.6 VISC. 80 72 69 68 W.L.C.C. 5.2 5.4 5.4 FLTR. CK. 3/2 3/2 3/2 pH 9.0 11 11 SD. CONT.
13	D.C. 7 OD 3912 22 FT.	TYPE 05C1												
3	6 1/8 OD 8843 3 FT.	NOZZ. SIZE 3-11												
	RMR BODY OD 2095 5 FT.	SERIAL No. 80811												
	STB BODY OD 263 3 FT.	DEPTH IN 3907												
	SUBS OD 324 4 FT.	DEPTH OUT 3907												
	BIT OR C.B. FT.	FT. DRILLED 39												
	FT. REAMED													
	Kelly Down 2416 FT.	FT. CORED												
	TOTAL 3946 FT.	CUM. HRS. RUN 434												
	WT OF STRING 110 M LBS.	CONDITION 03												
	DRILLER R. Adams													
	WEATHER CONDITIONS Clear													
37	STANDS DP 3478.43 FT.	Drilling or Core Bit No. 8	3946	70		4016		65	40	1300	5	59	74	TIME 1st HR. 3rd HR. 5th HR. 7th HR. WEIGHT 9.6 9.5 9.5 VISC. 66 62 55 W.L.C.C. 5.4 FLTR. CK. 2/2 pH 9.5 9.5 SD. CONT.
13	D.C. 7 OD 591.22 FT.	TYPE 05C1												
3	6 1/8 OD 8843 3 FT.	NOZZ. SIZE 3-11												
	RMR BODY OD 20.95 FT.	SERIAL No. 80811												
	STB BODY OD 2.63 FT.	DEPTH IN 3907												
	SUBS OD 324 4 FT.	DEPTH OUT 4016												
	BIT OR C.B. FT.	FT. DRILLED 109												
	FT. REAMED													
	Kelly Down 31.10 FT.	FT. CORED												
	TOTAL 4016 FT.	CUM. HRS. RUN 12												
	WT OF STRING 110 M LBS.	CONDITION 2-2-1												
	DRILLER G. Meyer													
	WEATHER CONDITIONS Mild													
400	STANDS DP 415 1 FT.	Drilling or Core Bit No. 9	400	415		4016								TIME 1st HR. 3rd HR. 5th HR. 7th HR. WEIGHT 9.5 VISC. 63 W.L.C.C. FLTR. CK. pH SD. CONT.
	SINGLS. DP FT.	TYPE 5313												
	D.C. OD FT.	SIZE 8311												
	OD FT.	NOZZ. SIZE 2-12 1-13												
	RMR BODY OD FT.	SERIAL No. 80811												
	STB BODY OD FT.	DEPTH IN 4016												
	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 H. M. Dig													
	WEATHER CONDITIONS													

DRILLING CREW PAYROLL DATA

E 35

WELL UNION PAN AM TRINOR LAKE

COMPANY UNION OIL

TOOL PUSHER R. Adams

RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	G CROFTS	1240	8		
DRK-MAN	2	G HILL	3352	8		
CAT-HEAD	3	G HENSCHEL	3287	8	4	
FLR-MAN	4	G WALTER		8		
FLR-MAN	4	M PALLO	6759	8		
O.T. SHORT HANDLED ON DAYLIGHTS						

DAILY DRILLING REPORT											
OPERATOR		LOCATION				WELL NAME		No.	PROVINCE		
		LSD.	SEC.	TWP.	RGE.	W.					
<i>Union Oil</i>		<i>E</i>	<i>35</i>	<i>60</i>	<i>120</i>		<i>Union Reservoir Tractor Lt</i>	<i>E 35</i>	<i>NWT</i>		
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 (1964) LTD.							SIZE	WT & GR.	FROM	TO	
	<i>19</i>	<i>A1 1/2</i>		<i>XH</i>	<i>E</i>		<i>9 7/8</i>	<i>32.5</i>		<i>808</i>	<i>Coat</i>
											<i>6 1/2 inch 37 cask</i>
OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER										

TIME DISTRIBUTION—HOURS

	Morn	Day	Even
DRILLING	7 3/4	1 1/2	
TRIPPING			
RIG MAINTENANCE	1 1/2	1 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 AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	500
PRESENT LENGTH	2750
TON MI. OF TRIPS SINCE LAST CUT	4250
CUMULATIVE TON MI. OF TRIPS	5-9
	23711
NO. OF DAYS FROM SPUD	14
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	96
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	186
EVENING TOUR	63

DRILLING ASSEMBLY				BIT RECORD	
NO.	STANDS	DP	FT.	Drilling or Core Bit No	
25	1	13	3	7	
	SNGLS.	DP	FT.	TYPE	
	13	D.C. 7	39122	SIZE	2565
	3	1 1/8	8843	NOZZ. SIZE	834
	RMR BODY	OD	FT.	SERIAL No.	2-14
	STB BODY	OD	FT.	DEPTH IN	7-13
	SUBS	OD	FT.	DEPTH OUT	80753
	BIT OR C.B.		FT.	FT. DRILLED	3735
			FT.	FT. REAMED	92
	Kelly Down		FT.	FT. CORED	
	TOTAL		FT.	CUM. HRS. RUN	
	WT OF STRING		LBS.	CONDITION	
	DRILLER:				
	WEATHER CONDITIONS				

NO. DRILLING ASSEMBLY				BIT RECORD	
36	STANDS	DP	5384.52	FT.	Drilling or Core Bit No. 7
	SNGLS.	DP		FT.	TYPE 056-J
13	D.C.	7" OD	391.22	FT.	SIZE 534
3	6 1/2"	OD	58.43	FT.	NOZZ. SIZE 2 1/4
	RAM BODY	OD		FT.	SERIAL No. 80753
	STB BODY	OD	2.65	FT.	DEPTH IN 3735
	SUBS	OD	3.24	FT.	DEPTH OUT 3907
	BIT OR C.B.		4.00	FT.	FT. DRILLED 172
				FT.	FT. REAMED
	Kelly Down		33.66	FT.	FT. CORED
	TOTAL		3907	FT.	CUM. HRS. RUN 19
	WT OF STRING		106	LBS.	CONDITION 0.8
DRILLER					
WEATHER CONDITIONS					

NO. DRILLING ASSEMBLY			BIT RECORD	
36	STANDS DP	33848 FT.	Drilling or Core Bit No.	8
	SNGLS. DP	FT.	TYPE	SSC-5
13	D.C. 7'100	391.22 FT.	SIZE	3 1/4
3	6'4" DP	8843 FT.	NOZZ. SIZE	3-11
	RHR BODY OD	20.95 FT.	SERIAL No.	80811
	STE BODY OD	FT.	DEPTH IN	3907
	SUBS OD	2.65 FT.	DEPTH OUT	7707
	BIT OR C.B.	2.24 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	15.70 FT.	FT. CORED	
	TOTAL	3907 FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	
DRILLER				
WEATHER CONDITIONS				

Depth At Beginning of Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- RY R.P.M.	WT ON BIT 1000 ⁰⁰	PUMP PRESS.	PUMP No. 1	LINER SIZE	S.P.M.	RUN
2760	67	3827		53	35	PUMP No. 2	90	5	48	
								6		
DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
From	To	Elapsed Time	REMARKS							
12 ⁰⁰	3 ⁰⁰	3	DATE 8/3/4							
3 ⁰⁰	3 ¹⁵	1/4	Rm Scr							
3 ¹⁵	8 ⁰⁰	4 3/4	DATE 8/3/4 Hute							
			CLEANED AIR CHAMBERS							
			CHANGED OUT 2 FILTERS IN PUMP MOTORS							

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
3827	80		5907		80	110	PUMP No. 1	900	5	52
							PUMP No. 2			

DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
From	To	Elapsed Time								
5'00"	5'15"	14								
5'15"	7'00"	7	34							

REMARKS

Big Service Pops
Dirty 8 3/4 Hole

60

Cleaned All Cleaners on All meters

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.	HI RU
3907			3907				PUMP No. 1			
							PUMP No. 2			

DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3907		1 1/4								

From	To	Elapsed Time	REMARKS
400	465	1/4	SURVEY
415	515	1	HOLE TIGHT FIRST 3 STANDS (USE HILLY)
515	635	1 1/4	HOLE TIGHT
635	645	1/2	HOLE TIGHT @ 2100 (CIRC CL-22)
645	800	1 1/4	HOLE TIGHT
800	900	1	CHANGE P.S. RIG SIZE & PICK UP OC
900	1100	2	HOLE UP CHANGE RUBBER ON STABILIZER
900	1100	2	REPAIR IN W. B.T.H. &

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR	7th HR
WEIGHT	9.6	9.5	9.5	9
VISC.	75	75	66	6
W.L.-C.C.	62	64	60	5
FLTR. CK.	1/32	1/32	1/32	3/4
pH	10	9.5	9.5	9
SD. CONT.				

MUD & CHEMICALS ADDED			
TYPE	AMT.	TYPE	AMT.
SERSENE	600 $\frac{1}{2}$		
CADDEX	300 $\frac{1}{2}$		
CUMUL	100 $\frac{1}{2}$		
P.P.	5 CN.		
RESOL	25 CBL.		
C.F.L.	200 $\frac{1}{2}$		

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th H
WEIGHT	95	95	95	95
VISC.	64	64	62	62
W.L.-C.C.		5.6		5.6
FLTR. CK.		33		33
pH	9.5	9.5		9.5
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.	TYPE	AMT.	
GEL	1000			
SPETS	600			
CRIME	400			
Castor	100			
Des	25			

[illegible]

DRILLING CREW PAYROLL DATA

WELL UNION PAN AM TRAINER LR E35
COMPANY Union Oil
TOOL PUSHER R. Adams RIG NO. 19

[illegible]

CREW	CODE	NAME	EMPL.	HOURS		D	CO
			No.	REG	O.T.		
DRILLER	1	G. Meyer	5788	8			
DRK-MAN	2	K. Leech	4767	8			
CAT-HEAD	3	Vic Richmond	7600	8			
FLR-MAN	4	Wlf Fleckie	2013	8			
FLR-MAN	4	Jim Thomas	8921	8			
	4	H. Gunn		8			

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILLER	1	H. VIG	2220	8	
DRK-MAN	2	G. S. A. S. 2	2201	8	
CAT-HEAD	3	P. DUFFERN	2625	8	
FLR-MAN	4	D. LEONHARDT	2700	8	
FLR-MAN	4	D. GUNN	2793	8	
COOK		A. TRIP		9	
COOK'S HLPR.					
CAMP				9	

ATTN.	H	D	F	TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HRS.

DATE: Jan 2/67

DAILY DRILLING REPORT										PROVINCE																							
OPERATOR		LOCATION		LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																						
Crown Oil		E		35	60	120			United Pan Am TRAILOR LK	E 35	N 15																						
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 (1964) LTD.		19	AT 1/2	TYPE T.I.D. X 1/4		E	No.	MANUFACTURER	TYPE	9 1/2	32.5	808	Conk	650	37. Calca																		
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																															
Cecil E. Smith		R. Adams																															
TIME DISTRIBUTION—HOURS				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			
				STANDS DP FT.		Drilling or Core Bit No. 6																								TIME			
				1 SNGLS. DP 3133.52 FT.		TYPE 5475																								1st HR.			
				9 D.C. 7" OD 2712 FT.		SIZE 8 3/4																								WEIGHT			
				3 6 1/4 OD 88.43 FT.		NOZZ. SIZE 2-13																								VISC.			
				RMR BODY OD 32.4 FT.		SERIAL No. 904434																								W.L.C.C.			
				STB BODY OD 32.4 FT.		DEPTH IN 3712																								FLTR. CK.			
				SUBS OD 26.3 FT.		DEPTH OUT 3735																								pH			
				BIT OR C.B. 17.49 FT.		FT. DRILLED 23																								SD. CONT.			
				Kelly Down 41.00 FT.		FT. REAMED																								MUD & CHEMICALS ADDED			
				TOTAL 35.57 FT.		CUM. HRS. RUN 114																								TYPE			
				WT OF STRING 96 MLBS.		CONDITION 1 N 1/4-1																								AMT.			
				DRILLER		WEATHER CONDITIONS																								TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E. Smith		R. Adams																								AMT.			
				WEATHER CONDITIONS																										TYPE			
				Cecil E																													

DRILLING CREW PAYROLL DATA

[illegible]

OPERATOR <i>Union Oil</i>		LOCATION <i>E</i>		LSD. <i>35</i>		SEC. <i>60</i>		TWP. <i>120</i>		RGE. <i>W.</i>		WELL NAME <i>Union pan Am Trainor Lake</i>		No. <i>E-35</i>		PROVINCE <i>N.W.T.</i>					
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. <i>19</i>		DRILL PIPE STRING NO. SIZE <i>4 1/2</i>		TOOL JOINT TYPE THD. <i>XH</i>		OD <i>E</i>		DRILL PIPE GRADE <i>E</i>		PUMPS No. MANUFACTURER TYPE <i>1. Oilwell 215P</i> <i>2. G.D. FKH</i> <i>3.</i>		CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO <i>958 3250 0 808</i>		TYPE OF CEMENT <i>Canst</i>		CEMENT USED <i>650</i>		OTHER <i>3% Gel</i>	
OPERATOR'S REPRESENTATIVE <i>Deane E. Smith</i>		CONTRACTOR'S TOOL PUSHER <i>R. Adams</i>																			
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 AND DRILLING OUT																					
MISCELLANEOUS																					
SUB TOTAL																					
WASH OVER																					
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																					
CUMULATIVE ROTATING HRS.																					
DAYS SINCE LAST ACCDNT.																					
DRILLER ACCDNT. FREE DAYS																					
MORNING TOUR																					
DAY TOUR																					
EVENING TOUR																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					
SUBS OD																					
BIT OR C.B.																					
Kelly Down																					
TOTAL																					
WT OF STRING																					
DRILLER																					
WEATHER CONDITIONS																					
NO. DRILLING ASSEMBLY																					
BIT RECORD																					
STANDS DP																					
SNGLS. DP																					
D.C.																					
OD																					
RMR BODY OD																					
STB BODY OD																					

[illegible]

DAILY DRILLING REPORT

OPERATOR UNION OIL	LOCATION E 25 60 120	SEC. 25	TWP. 60	RGE. 120	W. W	WELL NAME UNION PAN AM TRAINOR LK	No. F-35	PROVINCE ALINT.		
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. 19	DRILL PIPE NO. SIZE 4 1/2	TOOL JOINT TYPE THD. X H. X H. E.	OD E.	DRILL PIPE GRADE E.	PUMPS No. MANUFACTURER TYPE 1. OILWELL 218P 2. G.D. FKH 3.	CASING & LINER RECORD SIZE WT & GR. FROM TO 9 5/8 22.30 0 808	DEPTH SET TYPE OF CEMENT CONST 650	CEMENT USED 300 gal etc.	OTHER
OPERATOR'S REPRESENTATIVE Cecil E. Smith	CONTRACTOR'S TOOL PUSHER R. Adams									

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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE	3735	0	3735																							
			2	SNGLS.	DP	3165.04	5475																										
			14	D.C.	OD	421.22	834																										
			3	6	OD	88.15	2-13																										
				RMR BODY	OD		SERIAL No.	904434																									
				STB BODY	OD	20.95	DEPTH IN	3712																									
				SUBS	OD	3.24	DEPTH OUT																										
				BIT OR C.B.		2.63	FT. DRILLED	23																									
							FT. REAMED																										
				Kelly Down		33.77	FT. CORED																										
				TOTAL		3735	CUM. HRS. RUN	1 1/4																									
				WT OF STRING		106m. LBS.	CONDITION	IN																									
				DRILLER		R.M. 714																											
				WEATHER CONDITIONS		Cloudy																											

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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE	3735		3735																							
			2	SNGLS.	DP	3165.04	5475																										
			14	D.C.	OD	421.22	834																										
			3	6 1/4	OD	88.15	2-13																										
				RMR BODY	OD	20.95	SERIAL No.	904434																									
				STB BODY	OD	3.24	DEPTH IN	3712																									
				SUBS	OD	2.63	DEPTH OUT																										
				BIT OR C.B.			FT. DRILLED	23																									
							FT. REAMED																										
				Kelly Down		33.77	FT. CORED																										
				TOTAL		3735	CUM. HRS. RUN	1 1/4																									
				WT OF STRING		116m. LBS.	CONDITION	IN																									
				DRILLER		ER V. 1010																											
				WEATHER CONDITIONS		Cloud - Fog																											

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.		MRS. RUN		MUD RECORD				
Morn	Day	Eve	STANDS	DP	FT.	Drilling or Core Bit No.	TYPE	5735		5735																							
			2	SNGLS.	DP	3165.04	5475																										
			14	D.C.	OD	421.22	834																										
			3	6 1/4	OD	88.15	2-13																										
				RMR BODY	OD	20.95	SERIAL No.	904434																									
				STB BODY	OD	3.24	DEPTH IN	3712																									
				SUBS	OD	2.63	DEPTH OUT																										
				BIT OR C.B.			FT. DRILLED	23																									
							FT. REAMED																										
				Kelly Down		33.77	FT. CORED																										
				TOTAL		3735	CUM. HRS. RUN	1 1/4																									
				WT OF STRING		106m. LBS.	CONDITION	IN																									
				DRILLER		Emmanuel Meyer																											
				WEATHER CONDITIONS		Cloud - Fog																											

Form D1-5-66-3M Gallons of Diesel Fuel on Hand at 8:00 a.m. **51 9 11** REPORT No. **11** DATE: **Dec 30/66**

DRILLING CREW PAYROLL DATA

WELL **UNION PAN AM TRAINOR LK F-35**COMPANY **UNION OIL**TOOL PUSHER **R. Adams** RIG NO. **19**

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	R. V. 116	9320	8		
DRK-MAN	2	G. STASZ	8801	8		
CAT-HEAD	3	R. DUPERRON	1625	8		
FLR-MAN	4	D. LEON HERT	8			
FLR-MAN	4	D. GUNN	8			

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. CRAFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. Henschel	3287	8		
FLR-MAN	4	G. WALTER	8			
FLR-MAN	4	M. PALLO	8			
FLR-MAN	4	H. GUNN	8			

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILL-ER	1	G. Meyer	5788	8		
DRK-MAN	2	V. Leech	1767	8		
CAT-HEAD	3	Vic. Richmond	7600	8		
FLR-MAN	4	Will Fleckie	2013	8		
FLR-MAN	4	Jim Thomas	8921	8		

COOK	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
	A. TRIP		9		
COOK'S HLPR.	T. Petersen		9		
CAMP ATTN.	H. Dix		9		

DATE: **Dec 30 66**

OPERATOR UNION OIL		LOCATION LSD		SEC. 35	TWP. 60	RGE. 120	W.	WELL NAME UNION PAN AM TRAINER 114		No. F-35	PROVINCE N.W.T.							
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STR. NO. 7 1/2	TOOL JOINT TYPE THD. Y.H.	OD E.	DRILL PIPE GRADE	PUMPS No. MANUFACTURER TYPE 1. OILWELL 218P 2. G.D. FXH		CASING & LINER RECORD	SIZE 9 5/8	WT & GR. 22-30	DEPTH SET FROM TO 0 908	TYPE OF CEMENT CONST	CEMENT USED 650	OTHER 300 lb. Cc.			
OPERATOR'S REPRESENTATIVE Cecile E. Smith		CONTRACTOR'S TOOL PUSHER A. Adams																
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.	MRS. RUN	MUD RECORD	
MORNING TOUR		33 STANDS DP FT.		Drilling or Core Bit No. 6		3712	13		3725		65	40						TIME 1st HR. 3rd HR. 5th HR. 7th HR.
DRILLING 1 1/4		2 SNGLS. DP 3165.04 FT.		TYPE 5475									PUMP No. 1 1400	5	59	4	WEIGHT 9.6	
TRIPPING 3 1/2		14 D.C. 7 OD 421.22 FT.		SIZE 8 3/4									PUMP No. 2	6			VISC. 30	
RIG MAINTENANCE 24		3 6 1/2 OD 88.15 FT.		NOZZ. SIZE 2-13		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		W.L.C.C.		
RIG REPAIRS		RMR BODY OD FT.		SERIAL No. 904424		From To Elapsed Time		REMARKS								FLTR. CK.		
HOLE SURVEYS		STB BODY OD 20.95 FT.		DEPTH IN 3712		1200 100 1		FINNISH OUT W/ B.T.								SD. CONT.		
CONDITIONING MUD		SUBS OD 2.24 FT.		DEPTH OUT 13		1000 200 1		CLEAN SUCTION TANK SER RIG.								MUD & CHEMICALS ADDED		
CONDITIONING HOLE		BIT OR C.B. 2.62 FT.		FT. REAMED		200 430 2 1/2		PAN IN W/RT #6 PICK UP 1ST AND 6" DCS.								TYPE AMT. TYPE AMT.		
Reaming & Cleaning To Bottom 3 1/2		Kelly Down 2377 FT.		FT. CORED		430 700 3 1/2		BREAK CIRC DISPLACIS HOLE CLEAN								GEL 2000		
WORKING OR STUCK PIPE 7 1/2		TOTAL 3725 FT.		CUM. MRS. RUN 1		700 800 1		150' TO BTM.								SPRINGER 4000		
FISHING		WT OF STRING 106m LBS.		CONDITION IN				DRILL 8 3/4" HOLE.								CRUMEX 3000		
LOST CIRCULATION		DRILLER 14.7m 224		WEATHER CONDITIONS 1000												CAUSTIC 2000		
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.	MRS. RUN	MUD RECORD	
WAITING ON CEMENT		33 STANDS DP FT.		Drilling or Core Bit No. 6		3725	10		3735		65	40						TIME 1st HR. 3rd HR. 5th HR. 7th HR.
HEADING UP AND DRILLING OUT		2 SNGLS. DP 3165.04 FT.		TYPE 5475									PUMP No. 1 1400	5	59		WEIGHT	
MISCELLANEOUS		14 D.C. 7 OD 421.22 FT.		SIZE 8 3/4									PUMP No. 2				VISC.	
SUB TOTAL		3 6 1/2 OD 88.15 FT.		NOZZ. SIZE 2-13		DEVIATION RECORD:		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		W.L.C.C.		
DAYWORK HOURS		RMR BODY OD FT.		SERIAL No. 904434		From To Elapsed Time		REMARKS								FLTR. CK.		
TOTAL HOURS 8 8 8		STB BODY OD 20.95 FT.		DEPTH IN 3712		8 4 1/4 1/4		DRILL 8 3/4 HOLE								SD. CONT.		
WIRE LINE RECORD		SUBS OD 3.24 FT.		DEPTH OUT 23		8 15 1 1/4		PULLED UP & CHANGED PUMPS								MUD & CHEMICALS ADDED		
REEL NO.		BIT OR C.B. 2.62 FT.		FT. REAMED				1 7 3/4 COULD NOT BREAK CIRC., WORK STUCK PIPE								TYPE AMT. TYPE AMT.		
NO. OF LINES SIZE		Kelly Down 3377 FT.		FT. CORED				CHANGED OIL & FILTERS IN LIGHT								GEL 2600		
FEET SLIPPED		TOTAL 3725 FT.		CUM. MRS. RUN 1 1/4				SERVICED AIR CLEANERS								CAUSTIC 200		
FEET CUT OFF		WT OF STRING 106m LBS.		CONDITION				CHANGED OIL & FILTERS 1-2-3-4 CMC								CRUMEX 500		
PRESENT LENGTH		DRILLER SR Smith		WEATHER CONDITIONS Cold												SPRINGER 1600		
TON MI. or TRIPS SINCE LAST CUT 69		NO. DRILLING ASSEMBLY		BIT 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.	MRS. RUN	MUD RECORD	
CUMULATIVE TON MI. or TRIPS 23703		33 STANDS DP FT.		Drilling or Core Bit No. 6		3735							PUMP No. 1					TIME 1st HR. 3rd HR. 5th HR. 7th HR.
NO. OF DAYS FROM SPUD		2 SNGLS. DP FT.		TYPE 5475									PUMP No. 2				WEIGHT 9.6	
CUMULATIVE ROTATING MRS.																		

[illegible]

[illegible][illegible]

OPERATOR UNION OIL		LOCATION E 35		LSD. 60	TWP. 120	RGE. 	W. 	WELL NAME UNION PAN AM TRAPROCK E-35		No. N.W.F.	PROVINCE N.W.T.
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. SIZE 7 1/2	TOOL JOINT OD 	DRILL PIPE GRADE F.	PUMPS		CASING & LINER RECORD	OTHER		
OPERATOR'S REPRESENTATIVE [Signature]		CONTRACTOR'S TOOL PUSHER [Signature]				No. MANUFACTURER TYPE		SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER			
						1. G.I. WELLS 218P		9 5/8 22-30 0 808 Cemist 650 30% Cal etc			
						2. G.D. FIX.					
						3.					

TIME DISTRIBUTION—HOURS

	Morn	Day	Even
DRILLING	5 ³ / ₄	7 ³ / ₄	2 ¹ / ₂
TRIPPING			3 ¹ / ₂
RIG MAINTENANCE	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄
RIG REPAIRS			
HOLE SURVEYS			1 ¹ / ₄
CONDITIONING MUD			
CONDITIONING HOLE			1 ¹ / ₄
Rooming & Cleaning To Bottom	2		3 ³ / ₄

WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			1/2
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE
FEET SLIPPED	40
FEET CUT OFF	40
PRESSENT LENGTH	
TOM MI. OF TRIPS	
SUNCE LAST CUT	
CUMULATIVE TOM MI. OF TRIPS	2563 4

NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	90 -
DRILLER ACCDNT. FREE DAYS	

MORNING TOUR	
DAY TOUR	
EVENING TOUR	168

MORNING TOUR

DAY TOUR

EVENING TOUR

[illegible]

NO. DRILLING ASSEMBLY			BIT RECORD		
27	STANDS	DP	FT.	Drilling or Core Bit No	4
1	SNGLS.	DP	2570.22	TYPE	S41-5
	D.C.	OD	FT.	SIZE	8 3/4
14	7	OD	421.22	NOZZ. SIZE	1 1/2 1-13
	RMR BODY	OD	FT.	SERIAL No.	992920
	STB BODY	OD	20.95	DEPTH IN	2914
	SUBS	OD	~~500~~	DEPTH OUT	
	BIT OR C.B.		3.61	FT. DRILLED	143
			FT.	FT. REAMED	
	Kelly Down		44.00	FT. CORED	
	TOTAL		3087	CUM. HRS. RUN	534
WT OF STRING			94m. LBS.	CONDITION	1N
DRILLER	H.M. Vig				
WEATHER CONDITIONS	Cold Wind				

NO. DRILLING ASSEMBLY				BIT RECORD	
30	STANDS	DP	FT.	Drilling or Core Bit No.	4
1	SNGLS.	DP	28526 FT.	TYPE	S4TJ
	D.C.	OD	FT.	SIZE	8 3/4
14	9"	OD	4212.2 FT.	NOZZ. SIZE	1-1/2
	RMR BODY	OD	FT.	SERIAL No.	992920
	STR BODY	OD	2095 FT.	DEPTH IN	2914
	SUBS	OD	361 FT.	DEPTH OUT	
	BIT OR C.B.		FT.	FT. DRILLED	409
			FT.	FT. REAMED	
	Kelly Down		2461 FT.	FT. CORED	
	TOTAL		3323 FT.	CUM. HRS. RUN	12 1/2
	WT OF STRING		95 m LBS.	CONDITION	OB
DRILLER SR - Swift					
WEATHER CONDITIONS Cloud					

NO. DRILLING ASSEMBLY			BIT RECORD		
31	STANDS	DP 2915.75 FT.	Drilling or Core Bit No.	4	5
	SNGLS.	DP FT.	TYPE	54TS	54TS
14	D.C. 7" OD	421.22 FT.	SIZE	8 3/4	8 3/4
	OD	FT.	NOZZ. SIZE	1-13	1-13
	RMR BODY	OD FT.	SERIAL No.	992920	9044
	STB BODY	OD 20.95 FT.	DEPTH IN	2914	334
	SUBS	OD 361 FT.	DEPTH OUT	3340	
	BIT OR C.B.	FT.	FT. DRILLED	426	53
		FT.	FT. REAMED		
	Kelly Down	3147 FT.	FT. CORED		
	TOTAL	3393 FT.	CUM. HRS. RUN	14	2
	WT OF STRING	98 M LBS.	CONDITION	2-3-1	0.B
DRILLER			C. J. Mager		
WEATHER CONDITIONS			Mild		

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.	MRS. RUN
2914	1-13		3067		100	35	PUMP No. 1	1450	5	59
							PUMP No. 2		6	
DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
From	To	Elapsed Time			REMARKS					
200	1215	1 1/4	RIG SET.							
1215	215	2	DRL CLEAN 50' TO BTM.							
215	800	5 3/4	DRL 6 8 3/4" HOLES.							
Dammed shaker table										

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Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTA- BY R.P.M.	WT ON BIT 1000#	PUMP PRESS.		LINER SIZE		S.P.M.		R.R.
							PUMP No. 1	PUMP No. 2					
3323	70		3393	check Break & Crown O. Matie	100	35		1500	5	59	2		
DEVIATION RECORD:		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
		3340	34										
From	To	ELAPSED TIME											
REMARKS													
440	1450	1/2	Drilling 8 3/4 Hole										
430	1445	1/4	Circ. prior Hoisting w/ Circle C"										
445	500	1/4	Deep Survey @ 3340 19"-10" 1/4 / Cleared 60' to 80'										
500	515	1/4	Rig Service + ROPS 18"-12" 1/2 / Drilling 8 3/4 Hole										
515	700	1 3/4	Holst w/ Bit - Very Tight 3340-3000'										
700	750	1/2	Run in w/ Collar's										
750	800	1/2	Slip + Cut 40' Drly Line										
800	915	1 1/4	Finish in Steel pipe - Very Tight 3340-3000'										

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th H.
WEIGHT	9.4	9.4	9.4	9.
VISC.	28	28	30	29
W.L.-C.C.	8.6	9.0	9.6	11.
FLTR. CK.	2 1/2	2 1/2	2 1/2	2 1/2
pH	10.	9.5	9.5	9.
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.		TYPE	AMT.
SPARSENE	900 F.			
CRONEX	450 F.			
CAUSTIC	300 F.			
D. D.	10 gals.			

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.6	9.6	9.7	9.6
VISC.	29	29	30	30
W.L.C.C.			9	8
FLTR. CK.			2 3/4	2 3/4
pH	11	11	11	11
SD. CONT.				
MUD & CHEMICALS ADDED				
TYPE	AMT.		TYPE	AMT.
Sp. Reserve	800 ^{cc}			
Promer	400 ^{cc}			
Caustic	100 ^{cc}			
DD	10 gal			
Gel	600 ^{cc}			

[illegible]

DRILLING CREW PAYROLL DATA

WELL LINCOLN PAN AM TRAPNOR R/H E-35
COMPANY UNITED OIL
TOOL PUSHER H. A. Adams RIG NO. 19

[illegible][illegible]

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILLER	1	G. Meyer	5788	8	
DRK-MAN	2	H. Leech	4767	8	
CAT-HEAD	3	Vic Richmond	7600	8	
FLR-MAN	4	Wlf Fleckie		8	
FLR-MAN	4	Jim Thomas	8921	8	
				0	
COOK		A. Trip		9	
COOK'S FLPR.		T. Peterson		9	
CAMP ATTN.		Al. Dix		9	
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT										PROVINCE																			
OPERATOR		LOCATION		LS.D.	SEC.	TWP.	RGE.	W.	WELL NAME	No.		E-35		N.W.T.															
CONTRACTOR		RIG NO.		DRILL PIPE STRING NO.	TOOL JOINT	OD	DRILL PIPE GRADE	No.	MANUFACTURER	TYPE	CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET	TYPE OF CEMENT	CEMENT USED	OTHER												
PETER BAWDEN DRILLING (1964) LTD.		19		42	TYPE THD.	X.H.	E.	1.	OIL WELL	21P		9 1/2	32-30	2	808	CONST	650 390 100 110												
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																											
Cecil E. Smith		R. Adams																											
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.		MRS. RUN		MUD RECORD	
		25 STANDS DP 235064 FT.		Drilling or Core Bit No. 2		2547		286		2833		15020				PUMP No. 1 1450		5		59		5		TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
MORNING TOUR		SINGLS. DP FT.		TYPE 5315												PUMP No. 2		6						WEIGHT 9.9 9.5 9.6					
DRILLING 5 4 2		D.C. OD FT.		SIZE 8 3/4																				VISC. 32 28 29					
TRIPPING 2 3/4 3/4		15 7 OD 45165 FT.		NOZZ. SIZE 1-13																				W.L.C.C. 8.4					
RIG MAINTENANCE 1/4 1/4 1/4		RMR BODY OD FT.		SERIAL No. 902153																				FLTR. CK. 1/2					
RIG REPAIRS		STB BODY OD FT.		DEPTH IN 2061																				pH 9.5					
HOLE SURVEYS 3/4		SUBS OD 3.61 FT.		DEPTH OUT 2833																				SD. CONT.					
CONDITIONING MUD		BIT OR C.B. FT.		FT. DRILLED 772																				MUD & CHEMICALS ADDED					
CONDITIONING HOLE		Kelly Down 27.10 FT.		FT. CORED																				TYPE AMT. TYPE AMT.					
Reaming & Cleaning To Bottom		TOTAL 2833 FT.		CUM. MRS. RUN 14																				SPEAR 450#					
WORKING OR STUCK PIPE		WT OF STRING 90m. LBS.		CONDITION 3-2-1																				CRAMEX 225#					
FISHING		DRILLER R.M. 2/2		WEATHER CONDITIONS																				CAUSTIC 150#					
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.		MRS. RUN		MUD RECORD	
CASING		26 STANDS DP 2444 FT.		Drilling or Core Bit No. 3		2823		59		2892		15020				PUMP No. 1 1450		59		59				TIME		1st HR. 3rd HR. 5th HR. 7th HR.			
WAITING ON CEMENT		SINGLS. DP FT.		TYPE 5315												PUMP No. 2								WEIGHT 9.3					
HEADING UP AND DRILLING OUT		14 7 OD 42122 FT.		NOZZ. SIZE 1-13																				VISC. 23					
MISCELLANEOUS 2 1/2		RMR BODY OD FT.		SERIAL No. 997390																				W.L.C.C. 8.1					
SUB TOTAL		STB BODY OD FT.		DEPTH IN 2833																				FLTR. CK. 3/4					
DAYWORK HOURS		SUBS OD 261 FT.		DEPTH OUT																				pH 10					
TOTAL HOURS 8 8 8		BIT OR C.B. FT.		FT. DRILLED 59																				SD. CONT.					
WIRE LINE RECORD		Kelly Down 1821 FT.		FT. CORED																				MUD & CHEMICALS ADDED					
REEL NO.		TOTAL 2892 FT.		CUM. MRS. RUN 4																				TYPE AMT. TYPE AMT.					
NO. OF LINES SIZE		WT OF STRING 90m. LBS.		CONDITION 08																				SPEAR 400#					
FEET SLIPPED		DRILLER R.M. 2/2		WEATHER CONDITIONS Cold																				CRAMEX 200#					
FEET CUT OFF 2575		NO. DRILLING ASSEMBLY		BIT 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.													

DRILLING CREW PAYROLL DATA

[illegible]

DAILY DRILLING REPORT

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																			
UNION OIL		E	25	60	170	UNION PAN AM TRAINOR LAKE			E-35	B.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 (1964) LTD.		19	4 1/2	TYPE THD.	X.H.	E	1. DIKWELL 218P 2. G.D. EXH.			7 1/2	32 30	0 808		650	3 1/2	del lla.													
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																											
Cecil E. Smith		R. Adams																											
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.		MRS. RUN		MUD RECORD	
DRILLING		16 STANDS DP 1502.33 FT.		Drilling or Core Bit No. 1		1495		475				1970				156		25/15		PUMP No. 1 1450 5 59		6				TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
TRIPPING		15 7" OD 451.65 FT.		TYPE 53TS																WEIGHT 9.0 9.0 9.0 9.2						VISC. 30 30 30 28			
RIG MAINTENANCE		RMR BODY OD		SIZE 1-12 8 3/4																W.L.C.C. 80 9.0 7.2						FLTR. CK. 1/2 1/2 1/2 1/2			
RIG REPAIRS		STB BODY OD		NOZZ. SIZE 8 3/4																PH 9.5 9.5 9.5						SD. CONT.			
HOLE SURVEYS		SUBS OD 3.61 FT.		SERIAL No. 906583																MUD & CHEMICALS ADDED						TYPE AMT. TYPE AMT.			
CONDITIONING MUD		BIT OR C.B. FT. DRILLED 1162		DEPTH IN 808																SPARSENE 450#						CRDMEX 150#			
CONDITIONING HOLE		Kelly Down 11.41 FT.		FT. CORED																CAUSTIC 150#						D.D. 5 gals.			
Reaming & Cleaning To Bottom		TOTAL 1970 FT.		CUM. HRS. RUN 14 1/2																A.S.P.A. 100#						SAPP			
WORKING OR STUCK PIPE		WT OF STRING 78 m. LBS.		CONDITION 1N																									
FISHING		DRILLER 14 m. Vig		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.		MRS. RUN		MUD RECORD	
CASING		18 STANDS DP 1690.99 FT.		Drilling or Core Bit No. 1 2		1970		217				2187				150		120		PUMP No. 1 1500 5 59						TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
WAITING ON CEMENT		15 7" OD 451.65 FT.		TYPE 53TS 53TS																WEIGHT 9.4 9.4 9.4 9.7						VISC. 24 24 24 24			
HEADING UP AND DRILLING OUT		RMR BODY OD		SIZE 8 3/4 8 3/4																W.L.C.C. 70 6.6 6.6						FLTR. CK. 1/2 1/2 1/2 1/2			
MISCELLANEOUS		STB BODY OD		NOZZ. SIZE 1-12 8 3/4																PH 12 12 12 12						SD. CONT.			
SUB TOTAL		SUBS OD 3.61 FT.		SERIAL No. 906583 90215																MUD & CHEMICALS ADDED						TYPE AMT. TYPE AMT.			
DAYWORK HOURS		BIT OR C.B. FT. DRILLED 1253 217		DEPTH IN 808 2061																									
TOTAL HOURS 8 8 8		Kelly Down 41 00 FT.		FT. CORED																									
WIRE LINE RECORD		TOTAL 2187.25 FT.		CUM. HRS. RUN 16 1/4 17 1/4																									
REEL NO.		WT OF STRING 80 m. LBS.		CONDITION 2-2-1																									
NO. OF LINES		DRILLER 14 m. Vig		WEATHER CONDITIONS																									
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.		MRS. RUN		MUD RECORD	
FEET CUT OFF 2575		22 STANDS DP 2067.77 FT.		Drilling or Core Bit No. 2		2187		360				2547				150		20		PUMP No. 1 1500 5 59 7 1/4						TIME 1st HR. 3rd HR. 5th HR. 7th HR.			
PRESENT LENGTH 2425		15 7" OD 451.65 FT.		TYPE 53TS																WEIGHT 9.7 9.7 9.7 9.7						VISC. 32 32 32 32			
TON MI. OF TRIPS SINCE LAST CUT 342		RMR BODY OD		SIZE 8 3/4																W.L.C.C. 32 32 32 32						FLTR. CK.			
CUMULATIVE TON MI. OF TRIPS 23324		STB BODY OD		NOZZ. SIZE 1-12 8 3/4																PH						SD. CONT.			
NO. OF DAYS FROM SPUD 6		SUBS OD 3.61 FT.		SERIAL No. 902153																MUD & CHEMICALS ADDED						TYPE AMT. TYPE AMT.			
DAYS SINCE LAST ACCT. 88		BIT OR C.B. FT. DRILLED 486		DEPTH IN 2061																									
DRILLER ACCT. FREE DAYS		Kelly Down 24.60 FT.		FT. CORED																									
MORNING TOUR 166		TOTAL 2547 FT.		CUM. HRS. RUN 9																									
DAY TOUR		WT OF STRING 86 m. LBS.		CONDITION 0.8																									
EVENING TOUR		DRILLER 14 m. Vig		WEATHER CONDITIONS																									

DRILLING CREW PAYROLL DATA

WELL UNION PAN AM TRAINOR LAKE E-35

COMPANY UNION OIL

TOOL PUSHER R. Adams RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	K. VIG	9320	8		
DRK-MAN	2	G. SZASZ	8801	8		
CAT-HEAD	3	R. DUPERRON	1635	8		
FLR-MAN	4	D. LEONHARDT		8		
FLR-MAN	4	D. GUNN		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. HENSEHEL	3287	8		
FLR-MAN	4	G. WALTER		8		
FLR-MAN	4	M. PALLA		8		
		H. GUNN		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST. CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	K. Richmond	7600	8		
FLR-MAN	4	W. Fleckie		8		
FLR-MAN	4	Jim Thomas	8921	8		

COOK	NAME	HOURS
	A. T.R.P.	9
COOK'S HLPR.	T. Peterson	9
CAMP ATTN.	A. Dix	9

OPERATOR <i>Union Oil</i>		LOCATION <i>Union pan Am. Tractor Lake</i>		LSD. <i>35</i>		SEC. <i>60</i>		TWP. <i>120</i>		RGE. <i>W.</i>		WELL NAME <i>F-35</i>		PROVINCE <i>N.W.T.</i>															
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. <i>19</i>		DRILL PIPE STRING NO. & SIZE <i>1 1/2"</i>		TOOL JOINT TYPE TMD. & H <i>1 H</i>		OD <i>E</i>		DRILL PIPE GRADE <i>E</i>		PUMPS No. MANUFACTURER TYPE <i>1. Oilwell 218P</i> <i>2. B.D. FPK</i> <i>3.</i>		CASING & LINER RECORD SIZE WT & GR. DEPTH SET FROM TO TYPE OF CEMENT CEMENT USED OTHER <i>9 3/8 32.30 0 808 650 3 1/2 Cal</i>															
OPERATOR'S REPRESENTATIVE <i>Deane E. Smith</i>		CONTRACTOR'S TOOL PUSHER <i>A. Adams</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	
MORNING TOUR		STANDS DP FT.		Drilling or Core Bit No. 1		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		TIME 1st HR. 3rd HR. 5th HR. 7th M	
TRIPPING		SNGLS. DP FT.		TYPE 53TS		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		WEIGHT	
RIG MAINTENANCE		D.C. OD FT.		SIZE 8 3/4		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		VISC.	
RIG REPAIRS		RMR BODY OD FT.		NOZZ. SIZE 8 3/4		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		W.L.-C.C.	
HOLE SURVEYS		STB BODY OD FT.		SERIAL No. 906583		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		FLTR. CK.	
CONDITIONING MUD		SUBS OD FT.		DEPTH IN 808		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		pH	
CONDITIONING HOLE		BIT OR C.B. FT.		DEPTH OUT 157		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		SD. CONT.	
Reaming & Cleaning To Bottom		Kelly Down 40.06 FT.		FT. CORED		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		MUD & CHEMICALS ADDED	
WORKING OR STUCK PIPE		TOTAL 965 FT.		CUM. HRS. RUN		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		TYPE AMT. TYPE AM	
FISHING		WT OF STRING 65m LBS.		CONDITION OB		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		SA 250#	
LOST CIRCULATION		DRILLER <i>Camden Meyer</i>		WEATHER CONDITIONS <i>Cold & Stormy</i>		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		Pioneer 100#	
CASING		NO. DRILLING ASSEMBLY		BIT RECORD		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		Caustic 150#	
WAITING ON CEMENT		STANDS DP FT.		Drilling or Core Bit No. 1		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		Gel 100#	
HEADING UP AND DRILLING OUT		SNGLS. DP FT.		TYPE 53TS		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6		D.D. 5 Gallons	
MISCELLANEOUS		D.C. OD FT.		SIZE 8 3/4		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6			
SUB TOTAL		RMR BODY OD FT.		NOZZ. SIZE 8 3/4		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6			
DAYWORK HOURS		STB BODY OD FT.		SERIAL No. 906583		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6			
TOTAL HOURS 8 05		SUBS OD FT.		DEPTH IN 808		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6			
WIRE LINE RECORD		BIT OR C.B. FT.		DEPTH OUT 157		808		157		965		965		FORMATION (SHOW CORE RECOVERY)		90		1200		1200		5		59		6			

CREW		CODE	NAME	EMPL. No.	HOURS		DIST. CODE
					REG	O.T.	
DRILLER	1		G. Meyer	5788	8		
DRK-MAN	2		H. Leech	4767	8		
CAT-HEAD	3		Vic Richmond	7600	8		
FLR-MAN	4		Willy Fleckie		8	8	
FLR-MAN	4		Jim Thomas	8921	8		
	4		Dennis Gunn		8		
O.T. SHORT ON EVENING TOUR.							

CREW		CODE	NAME	EMPL. No.	HOURS		DIST. CODE
					REG	O.T.	
DRILLER	1		G. CROFTS	1240	8		
DRK-MAN	2		G. HILL	3352	8		
CAT-HEAD	3		G. HENSCHEL	3287	8		
FLR-MAN	4		G. WALTER		8		
FLR-MAN	4		M. PALLO		8		
	4		H. GUNN		8		

CREW		CODE	NAME	EMPL. No.	HOURS		DIST. CODE
					REG	O.T.	
DRILLER	1		K. VIG	9320	8		
DRK-MAN	2		G. SZASZ	8801	8		
CAT-HEAD	3		R. DUDERON	1635	8		
FLR-MAN	4		D. LEONHARDT		8		
FLR-MAN	4						

COOK	A	TR. P		9		
COOK'S HLP.	T	PETERSEN		9		
CAMP ATTN.	H	DIX		9		
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

OPERATOR Union Oil Co		LOCATION E 35		SEC. 35		TWP. 60		RGE. 150		W. Union Pan Am TRAILER LAKE		No. E 35		PROVINCE N.W.T.		
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.		RIG NO. 19	DRILL PIPE STRING NO. & SIZE A110	TOOL JOINT TYPE TND. XH	OD E	DRILL PIPE GRADE E	PUMPS No. MANUFACTURER TYPE 1. 2. 3.			CASING & LINER RECORD 9 1/2 32.5	DEPTH SET FROM TO 208	TYPE OF CEMENT Crest	CEMENT USED 650 lb 39.0 lb	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				
				STANDS	DP	FT.	Drilling or Core Bit No.														TIME	1st HR.	3rd HR.	5th HR.	7th HR.
DRILLING				SNGLS.	DP	FT.	TYPE														WEIGHT				
TRIPPING				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.	DEPTH OUT														SD. CONT.				
CONDITIONING HOLE						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																					
WAITING ON CEMENT				WEATHER CONDITIONS																					
HEADING UP AND 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				
MISCELLANEOUS				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.	OD	FT.	SIZE														VISC.				
TOTAL HOURS				RMR BODY	OD	FT.	NOZZ. SIZE														W.L.C.C.				
WIRE LINE RECORD				STB BODY	OD	FT.	SERIAL No.														FLTR. CK.				
REEL NO.				SUBS	OD	FT.	DEPTH IN														pH				
NO. OF LINES				BIT OR C.B.		FT.	DEPTH OUT														SD. CONT.				
FEET SLIPPED						FT.	FT. DRILLED														MUD & CHEMICALS ADDED				
FEET CUT OFF						FT.	FT. REAMED														TYPE	AMT.	TYPE	AMT.	
PRESENT LENGTH				Kelly Down		FT.	FT. CORED																		
TON MI. or TRIPS SINCE LAST CUT				TOTAL		FT.	CUM. HRS. RUN																		
CUMULATIVE TON MI. or TRIPS				WT OF STRING		LBS.	CONDITION																		
NO. OF DAYS FROM SPUD				DRILLER																					
CUMULATIVE ROTATING HRS.				WEATHER CONDITIONS																					
DAYS SINCE LAST ACCTNT.				NO. DRILLING ASSEMBLY		BIT 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				
DRILLER ACCTNT. FREE DAYS				STANDS	DP	FT.	Drilling or Core Bit No.														TIME	1st HR.	3rd HR.	5th HR.	7th HR.
MORNING TOUR				SNGLS.	DP	FT.	TYPE														WEIGHT				
DAY TOUR				D.C.	OD	FT.	SIZE														VISC.				
EVENING TOUR				RMR BODY	OD	FT.	NOZZ. SIZE																		

[illegible]

DAILY DRILLING REPORT

OPERATOR <i>Union Oil</i>	LOCATION <i>F 35</i>	SEC. <i>60</i>	TWP. <i>120</i>	RGE. <i>W</i>	WELL NAME <i>Union pan Am Tractor Lake # 35</i>	No. <i>35</i>	PROVINCE <i>N. W.T.</i>				
CONTRACTOR PETER BAWDEN DRILLING (1964) LTD.	RIG NO. <i>19</i>	DRILL PIPE STRING NO. & SIZE <i>1 1/2</i>	TOOL JOINT <i>TYPE THD. X H</i>	OD <i>F</i>	DRILL PIPE GRADE <i>F</i>	PUMPS No. MANUFACTURER TYPE 1. <i>Oilwell 218P</i> 2. <i>G. 2. RXX</i>	CASING & LINER RECORD SIZE WT & GR. FROM TO <i>9 5/8 32.50 0 808</i>	DEPTH SET FROM TO <i>0 808</i>	TYPE OF CEMENT <i>650</i>	CEMENT USED <i>3% Calc</i>	OTHER
OPERATOR'S REPRESENTATIVE <i>Cecil E. Smith</i>	CONTRACTOR'S TOOL PUSHER <i>R. Adam</i>										

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of 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.		MRS. RUN		MUD RECORD					
Morn	Day	Eve		STANDS	DP	FT.	Drilling or Core Bit No.	Depth	Drilled This Tour	Cored or Reamed This Tour	Depth	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	TIME	1st HR.	3rd HR.	5th HR.	7th HR.	
DRILLING				SNGLS.	DP	FT.	TYPE																			WEIGHT					
TRIPPING				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																			SD. CONT.					
CONDITIONING MUD				BIT OR C.B.	FT.	FT. DRILLED	DEPTH OUT																								
CONDITIONING HOLE	<i>1/2</i>			Kelly Down	FT.	FT. CORED	CUM. MRS. RUN																								
Reaming & Cleaning To Bottom				TOTAL	FT.	CONDITION																									
WORKING OR STUCK PIPE				WT OF STRING	LBS.																										
FISHING				DRILLER	<i>Cynthia Meyer</i>																										
LOST CIRCULATION				WEATHER CONDITIONS	<i>Mild.</i>																										
CASING	<i>5/4</i>																														
WAITING ON CEMENT		<i>0</i>																													
HEADING UP AND DRILLING OUT																															
MISCELLANEOUS	<i>2 1/4</i>																														
SUB TOTAL																															
DAYWORK HOURS																															
TOTAL HOURS	<i>8</i>	<i>8</i>																													

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of 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.		MRS. RUN		MUD RECORD						
Morn	Day	Eve		STANDS	DP	FT.	Drilling or Core Bit No.	Depth	Drilled This Tour	Cored or Reamed This Tour	Depth	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	TIME	1st HR.	3rd HR.	5th HR.	7th HR.		
DRILLING				SNGLS.	DP	FT.	TYPE																				WEIGHT					
TRIPPING				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																				SD. CONT.					
CONDITIONING MUD				BIT OR C.B.	FT.	FT. DRILLED	DEPTH OUT																									
CONDITIONING HOLE				Kelly Down	FT.	FT. CORED	CUM. MRS. RUN																									
Reaming & Cleaning To Bottom				TOTAL	FT.	CONDITION																										
WORKING OR STUCK PIPE				WT OF STRING	LBS.																											
FISHING				DRILLER	<i>SRL</i>																											
LOST CIRCULATION				WEATHER CONDITIONS																												
CASING																																
WAITING ON CEMENT																																
HEADING UP AND DRILLING OUT																																
MISCELLANEOUS																																
SUB TOTAL																																
DAYWORK HOURS																																
TOTAL HOURS																																

TIME DISTRIBUTION—HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		Depth At Beginning of 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.		MRS. RUN		MUD RECORD						
Morn	Day	Eve		STANDS	DP	FT.	Drilling or Core Bit No.	Depth	Drilled This Tour	Cored or Reamed This Tour	Depth	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	TIME	1st HR.	3rd HR.	5th HR.	7th HR.		
DRILLING				SNGLS.	DP	FT.	TYPE																				WEIGHT					
TRIPPING				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																				SD. CONT.					
CONDITIONING MUD				BIT OR C.B.	FT.	FT. DRILLED	DEPTH OUT																									
CONDITIONING HOLE				Kelly Down	FT.	FT. CORED	CUM. MRS. RUN																									
Reaming & Cleaning To Bottom				TOTAL	FT.	CONDITION																										
WORKING OR STUCK PIPE				WT OF STRING	LBS.																											
FISHING				DRILLER	<i>H.M. Vig</i>																											
LOST CIRCULATION				WEATHER CONDITIONS																												
CASING																																
WAITING ON CEMENT																																
HEADING UP AND DRILLING OUT																																
MISCELLANEOUS																																
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	CUMULATIVE ROTATING HRS.	DAYS SINCE LAST ACCT.	DRILLER ACCT. FREE DAYS	MORNING TOUR	DAY TOUR	EVENING TOUR
					<i>2575</i>	<i>2425</i>	<i>318</i>	<i>23300</i>	<i>4</i>	<i>46</i>	<i>86</i>		<i>164</i>		

DRILLING CREW PAYROLL DATA

WELL *Union pan Am Tractor Lake # 35*
 COMPANY *Union Oil*
 TOOL PUSHER *R. Adam* RIG NO. *19*

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST CODE
DRILLER	1	G. Meyer	5788	8		
DRK-MAN	2	K. Leech	4767	8		
CAT-HEAD	3	Vic Richmond	7600	8		
FLR-MAN	4	Wilt Fleckie		8		
FLR-MAN	4	Jim Thomas	8921	8		
FLR-MAN	4	Dennis Gunn		8		
Slayed over to Run Bp						
		K. Leech	4767	2		
		V. Richmond	7600	2		
		G. 52052	8801	8		
		R. Duperron	1635	8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST CODE
DRILLER	1	G. Crofts	1240	8		
DRK-MAN	2	G. Hill	3352	8		
CAT-HEAD	3	G. Henschel	3287	8		
FLR-MAN	4	G. Walter		8		
FLR-MAN	4	M. Pallo		8		
FLR-MAN	4	H. Gunn		8		

CREW	CODE	NAME	EMPL. No.	HOURS REG	O.T.	DIST CODE
DRILLER	1	H. Vig	9220	8		
DRK-MAN	2	G. Szasz	8801	8		
CAT-HEAD	3	R. Duperron	1635	8		
FLR-MAN	4	B. Holyk		8		
FLR-MAN	4	D. Leonard		8		

AT Running casing						
COOK		A. Trip		9		
COOK'S HLPR.		T. Peterson		9		
CAMP ATTN.		J. Dine		9		
				TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DAILY DRILLING REPORT

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																							
Union Oil		E	35	60	120			Union for Am Trainards	35	N. W. 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 (1964) LTD.		19	1 1/2"	TYPE THD. XH		F	No.	MANUFACTURER	TYPE	FROM	TO																						
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																															
Cecil E. Smith		A. Adams																															
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.		MRS. RUN		MUD RECORD			
				STANDS DP		Drilling or Core Bit No.		330		213		543						140		20		400		7 1/4		55		634					
MORNING TOUR				15 D.C. 6 1/4 OD		434.39 FT.		NOZZ. SIZE		3/4												800		6		60		634					
DRILLING				6 3/4 7 1/4 1																													
TRIPPING				1/2		3 1/4																											
RIG MAINTENANCE				1/4		1/4																											
RIG REPAIRS																																	
HOLE SURVEYS				1/2		3 1/4 1/4																											
CONDITIONING MUD																																	
CONDITIONING HOSE																																	
Reaming & Cleaning To Bottom																																	
WORKING OR STUCK PIPE																																	
FISHING																																	
LOST CIRCULATION																																	
CASING				2																													
WAITING ON CEMENT																																	
HEADING UP AND DRILLING OUT																																	
MISCELLANEOUS																																	
SUB TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS				8		8		8																									
WIRE LINE RECORD																																	
REEL NO.																																	
NO. OF LINES																																	
FEET SLIPPED																																	
FEET CUT OFF				2575																													
PRESENT LENGTH				2425																													
TON MI. OF TRIPS SINCE LAST CUT				318																													
CUMULATIVE TON MI. OF TRIPS				23200																													
NO. OF DAYS FROM SPUD				3																													
CUMULATIVE ROTATING HRS.				46																													
DAYS SINCE LAST ACCDNT.				85																													
DRILLER ACCDNT. FREE DAYS																																	
MORNING TOUR				163																													
DAY TOUR																																	
EVENING TOUR																																	
NO. DRILLING ASSEMBLY				3 STANDS DP		28203 FT.		Drilling or Core Bit No.		3A		Depth At Beginning of Tour		543		Drilled This Tour		220		Cored or Reamed This Tour		763		Depth At End of Tour		763		FORMATION (SHOW CORE RECOVERY)					
SNGLS. DP				15 D.C. 6 1/4 OD		434.49 FT.		NOZZ. SIZE		3/4		DEVIATION RECORD:		540		1°		630		1/4		730		1/4		PUMP PRESS.		LINER SIZE		S.P.M.		MRS. RUN	
RMR BODY OD				300 FT.		DEPTH IN		330		DEPTH OUT		800		815		2 3/4		115		230		245		245		400		1 1/4		SURVEY			
SUBS OD				324 FT.		DEPTH OUT		433		815		115		230		245		245		400		1 1/4		SURVEY		800		7 1/4		58			
BIT OR C.B.																																	
Kelly Down				4100 FT.		FT. CORED		14		08		815		115		230		245		245		400		1 1/4		SURVEY		800		7 1/4		58	
TOTAL				763.86 FT.		CUM. HRS. RUN		14		08		815		115		230		245		245		400		1 1/4		SURVEY		800		7 1/4		58	
WT OF STRING				50 M. LBS.		CONDITION		08																									
DRILLER				K. M. Vign																													
WEATHER CONDITIONS				Fair																													
NO. DRILLING ASSEMBLY				2 SNGLS. DP		345.07 FT.		Drilling or Core Bit No.		3A		Depth At Beginning of Tour		763		Drilled This Tour		478		Cored or Reamed This Tour		808		Depth At End of Tour		808		FORMATION (SHOW CORE RECOVERY)					
D.C. OD				15 D.C. 6 1/4 OD		434.49 FT.		NOZZ. SIZE		3/4		DEVIATION RECORD:		808		1/4		400		500		510		530		540		550		560			
RMR BODY OD				300 FT.		DEPTH IN		330		400		500		510		530		540		550		560		570		580		590		600			
SUBS OD				3.00 FT.		DEPTH OUT		808		808		808		808		808		808		808		808		808		808		808		808			
BIT OR C.B.				224 FT.		FT. DRILLED		478		808		808		808		808		808		808		808		808		808		808		808			
Kelly Down				22.20 FT.		FT. CORED		15		808		808		808		808		808		808		808		808		808		808		808			
TOTAL				808 FT.		CUM. HRS. RUN		15		808		808		808		808		808		808		808		808		808		808		808			
WT OF STRING				50 M. LBS.		CONDITION		15		808		808		808		808		808		808		808		808		808		808		808			
DRILLER				K. M. Vign																													
WEATHER CONDITIONS				Fair																													
NO. DRILLING ASSEMBLY				3 STANDS DP		28203 FT.		Drilling or Core Bit No.		3A		Depth At Beginning of Tour		543		Drilled This Tour		220		Cored or Reamed This Tour		763		Depth At End of Tour		763		FORMATION (SHOW CORE RECOVERY)					
SNGLS. DP				15 D.C. 6 1/4 OD		434.49 FT.		NOZZ. SIZE		3/4		DEVIATION RECORD:		540		1°		630		1/4		730		1/4		PUMP PRESS.		LINER SIZE		S.P.M.		MRS. RUN	
RMR BODY OD				300 FT.		DEPTH IN		330		400		500		510		530		540		550		560		570		580		590		600			
SUBS OD				3.00 FT.		DEPTH OUT		808		808		808		808		808		808		808		808		808		808		808		808			
BIT OR C.B.				224 FT.		FT. DRILLED		478		808		808		808		808		808		808		808		808		808		808		808			
Kelly Down				22.20 FT.		FT. CORED		15		808		808		808		808		808		808		808		808		808		808		808			
TOTAL				808 FT.		CUM. HRS. RUN		15		808		808		808		808		808		808		808		808		808		808		808			
WT OF STRING				50 M. LBS.		CONDITION		15		808		808		808		808		808		808		808		808		808		808		808			
DRILLER				K. M. Vign																													
WEATHER CONDITIONS				Fair																													
NO. DRILLING ASSEMBLY				3 STANDS DP		28203 FT.		Drilling or Core Bit No.		3A		Depth At Beginning of Tour		543		Drilled This Tour		220		Cored or Reamed This Tour		763		Depth At End of Tour		763		FORMATION (SHOW CORE RECOVERY)					
SNGLS. DP				15 D.C. 6 1/4 OD		434.49 FT.		NOZZ. SIZE		3/4		DEVIATION RECORD:		540		1°		630		1/4		730		1/4		PUMP PRESS.		LINER SIZE		S.P.M.		MRS. RUN	
RMR BODY OD				300 FT.		DEPTH IN		330		400		500		510		530		540		550		560		570		580		590		600			
SUBS OD				3.00 FT.		DEPTH OUT		808		808		808		808		808		808		808		808		808		808		808		808			
BIT OR C.B.				224 FT.		FT. DRILLED		478		808		808		808		808		808		808		808		808		808		808		808			
Kelly Down				22.20 FT.		FT. CORED		15		808		808		808		808		808		808		808		808		808		808		808			
TOTAL				808 FT.		CUM. HRS. RUN		15		808		808		808		808		808		808		808		808		808		808		808			
WT OF STRING				50 M. LBS.		CONDITION		15		808		808		808		808		808		808		808		808		808		808		808			
DRILLER				K. M. Vign																													

DAILY DRILLING REPORT

OPERATOR		LOCATION	LSD.	SEC.	TWP.	RGE.	W.	WELL NAME	No.	PROVINCE																							
Union O.L.		F	35	60	120			Union Pan Am Train	F-35	N. W. 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 (1964) LTD.		19	1 1/2	TYPE THD. X H		F	No.	MANUFACTURER	TYPE	FROM	TO																						
OPERATOR'S REPRESENTATIVE		CONTRACTOR'S TOOL PUSHER																															
Cecil E. Smith		R. Adam																															
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.		MRS. RUN		MUD RECORD				
			STANDS	DP	FT.	Drilling or Core Bit No.	1 A	2 A																									
Morn																																	
Day																																	
Eve																																	
DRILLING			7 1/4		7 1/4		6 1/2																										
TRIPPING			1/4		1/2																												
RIG MAINTENANCE			1/4		1/4																												
RIG REPAIRS			1/4		1/4																												
HOLE SURVEYS			1/4		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 AND DRILLING OUT																																	
MISCELLANEOUS																																	
SUB TOTAL																																	
DAYWORK HOURS																																	
TOTAL HOURS			8 1/2		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.		MRS. RUN		MUD RECORD				
REEL NO.																																	
NO. OF LINES																																	
FEET SLIPPED																																	
FEET CUT OFF			2575																														
PRESENT LENGTH			2425																														
TON MI. OF TRIPS SINCE LAST CUT			318																														
CUMULATIVE TON MI. OF TRIPS			23300																														
NO. OF DAYS FROM SPUD			2																														
CUMULATIVE ROTATING MRS.			31																														
DAYS SINCE LAST ACCNT.			84																														
DRILLER ACCNT. FREE DAYS																																	
MORNING TOUR			162																														
DAY TOUR																																	
EVENING TOUR																																	

[illegible]

DRILLING CREW PAYROLL DATA

WELL Union-Pan Am Trainor Lake E-35

COMPANY Union Oil

TOOL PUSHER

RIG NO.

19

[illegible][illegible]

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILL- ER	1	K. VIG	93208		
DRK- MAN	2	G. S2752	88018		
CAT- HEAD	3	R. DUPERRON	16358		
FLR- MAN	4	B. HOLYK.	8		
FLR- MAN	4	D. SMITH	8		
	4	D. LEONHARDT	8		
COOK		A. Trip		9	
COOK'S HLPR.		T. Peterson		9	
CAMP ATTN.		H. Disc		9	
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DATE: Dec 23/66

DRILLING CREW PAYROLL DATA

WELL Union-Pan Am Trainer Lake F-35

COMPANY Un. of Cal.

TOOL PUSHER R. Adam RIG NO. 19

CREW	CODE	NAME	EMPL. No.	HOURS		DIST CODE
				REG	OT	
DRILL- ER	1	G. Meyer	5788	8		
DRK- MAN	2	K. Leech	4767	8		
CAT- HEAD	3	Vic Behrmond	7605	8		
FLR- MAN	4	Wlf Fleckie		8		
FLR- MAN	4	Jim Thomas	8921	8		

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	G. CROFTS	1240	8		
DRK-MAN	2	G. HILL	3352	8		
CAT-HEAD	3	G. HENSCHKE	3287	8		
FLR-MAN	4	G. WALTER		8		
FLR-MAN	4	M. PALLO		8		
		D. GUNN		8		
		H. GUNN		8		
		D. LEONHARDT		8		

CREW	COST	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILL-ER	1	K. VIK	9320	8	
DRK-MAN	2	G. SASS	8801	8	
CAT-HEAD	3	R. DUPERRON	1635	8	
FLR-MAN	4	B. HOLYK		8	
FLR-MAN	4	D. SMITH		8	

COOK	<i>A. Trip</i>	9		
COOK'S HLPR.	<i>T. Peterson</i>	9		
CAMP ATTN.	<i>H. Die</i>	9		
		TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DATE: Dec 21/66

DRILLING CREW PAYROLL DATA

WELL Union per Am Train / Lake E-35

COMPANY Yoran A.C

TOOL PUSHER H. Egan RIG NO. 19

[illegible]

CREW	CODE	NAME	EMPL. No.	HOURS		DIST. CODE
				REG	O.T.	
DRILLER	1	~~H. V. G. Crafts~~		8		
DRK-MAN	2	~~G. S. A. S. E. Hill~~		8		
CAT-HEAD	3	~~R. D. DERRON~~ H. M. S. H.		8		
FLR-MAN	4	~~B. F. H. H. K. Z. R. H. H.~~		8		
FLR-MAN	4	~~D. S. H. H. H. H. H. H.~~		8		
	4	H. H. H. H. H. H.		8		
	4	D. H. H. H. H. H.		8		

CREW	CODE	NAME	EMPL. No.	HOURS	
				REG	O.T.
DRILLER	1	H. Wig		8	
DRK-MAN	2	H. Zass		8	
CAT-HEAD	3	R. Dwyer		8	
FLR-MAN	4	B. Haldy		8	
FLR-MAN	4	D. Smith		8	
COOK		A. Tapp		9	
COOK'S HLPR.		T. Peterson		9	
CAMP ATTN.		H. Dick		9	
			TOTAL REG HRS.	TOTAL O.T. HRS.	TOTAL HOURS

DATE: Feb 20/66