

CANDEL DECKMG ET AL

POLICE ISLAND

L-66

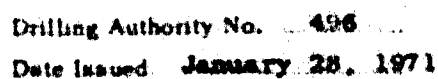
WELL HALL Candel DECEASED et al Police Island L-66

FIELD AREA: 66
LOCATION: Unit 1 Section 66 Grid 64-50-125-00
Latitude 64-45-38 Longitude 125-12-57
U.W.L.R. 64.76055 --- 125.21583
U.W.I. 300166450125000

Rig Release Date:
 Status:
 Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
28-1-71	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
11-5-71	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
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	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
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	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
26/5/71	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....



1 AND 2:00 121 12-95

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

**DEPARTMENT OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
ON & HERBALS DIVISION**

RECEIVED MAY 1971

COLUMBY PT. ALBERTA

SIL CONSERVATION PROGRAM

Environment & Planning Division

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

Well name and number: Candel DECKING et al Police Island L-66

Permit No. 6186

Lease No.

See Attachment
(Permittees, Licensees, Lessees)

Exploratory Licence No.

Canadian Delhi Oil Ltd.
(Operator)

Exploratory Licence No. 1787

Location: Unit L Section 66 Grid 64°30' 125°00'

Latitude **61°45'38"** Longitude **125°12'57"**

Unique well identifier 300L666450125000

Universal Well Location Reference Lat. 64.76055°N. Long. 125.21583°W.

CASING RECORD

GEOLOGICAL TOPS

[illegible]

CEMENTING RECORD (Plug Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Apr. 4	4314	4414	44 sacks cement.								
4	3045	3145	62 sacks cement + 2% CaCl ₂ Felt @ 3092'								
5	2220	2450	196 sacks cement + 2% CaCl ₂ Felt @ 2147'								
5	615	715	50 sacks cement + 2% CaCl ₂ Felt at 600'								
	Top of surface casing out off 3' below ground level										
	3 sacks cement in top of surface casing.										

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Min.	L.S.L. Min.	F.S.L. Min.	L.S.L.R.H.P.	F.S.L.R.H.P.	L.F.R.H.P.	F.F.R.H.P.	L.H.P.	F.H.P.	REMARKS
1	Dec. 19	Cretaceous	2270	2345	42	26	41	849	926	247	491	1101	1099	Rec. 1050' fresh water. GIB strong air blow throughout.
2	Dec. 21	Cretaceous	2960	2985	30	30	33	1243	1247	1057	1220	1461	1451	Rec. 2610' salt water (32,400 ppm), GIB, strong air blow throughout test, decreasing slightly at end of test.
3	Dec. 24	Silurian	3317	3392	54	29	43	893	907	47	68	1657	1657	Rec. 90' drilling mud. WAB during preflow, no air blow during initial flow. Reset tool during final flow - weak air blow, dead in 14 minutes.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL				Company	Signed by	Title	Date
933-1380	Water	2271	2345	DST #1		Oil			(Interval)	Canadian Oil Ltd.	<i>W. H. L. L. L.</i>	Vice President, Production	May 4, 1971.
	"	2985	2960	DST #2		Gas			(Interval)				
921-1280	Water	2945	2960	DST #2		Dry	X						
						Susp.							

Attachment to Well Completion Data (Candel DECKING et al Police Inland L-66)

Corexcal	Licence No.	1709
Petrorop	" "	1711
Petrol Oil & Gas	" "	1697
Kerr McGee of Canada Northwest Ltd.	" "	1678
Western Decalta	" "	1696



File No.
Drilling Authority No. 498

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area NOBISIAN WELLS Date May 26, 1971

TO: The Oil Conservation Engineer.

RE: Candel DEKTOIC et al Police Island L-66

Location: 64°45'38" N., 125°12'57" W. Status: Abandoned

This location was inspected by the undersigned on May 19, 1971

The location is in satisfactory/un satisfactory condition.

The following items require attention:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Other comments and recommendations. (Include Map, if necessary for clarity)

Very large lease — 400 yards x 800 yards approximately.

Lease in good condition. Small amount of plastic sheeting near well marker.

2" identification pipe does not appear to be welded to casing but it is vertical.

We were not able to pull the marker pipe up.

SPUDED: March 12, 1971

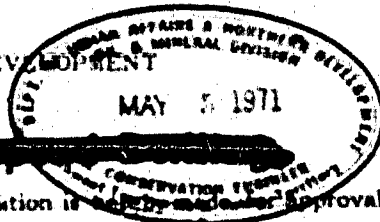
ABANDONED: April 6, 1971

Inspected by [Signature]



File No.
Drilling Authority No. 496

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to Abandon a Well

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

Name and number of well **Candel DECKING et al Police Island 1-88**
Location: Unit **L** Section **88** Grid **64°50' 125°00'**
Latitude **64°45'38"** Longitude **125°12'37"**
From Established Reference Marker
Universal Well Location Reference **Lat. 64.76035°N Long. 125.21383°W**
Permit No. **6186** Lease No. **-**

See over
(Permitter, Licensee, Lessee)

Date of commencement of proposed program **April 4, 1971**

OIL, GAS, AND WATER ENCOUNTERED
(Depth)

Oil at
Gas at
Water at **2270-2345' and 2800-2885'**
Total Depth **4414'** Date of last operations **April 5, 1971**
Present condition of well **Plugged and Abandoned**

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Sacks of Cement and Additives	Amount Pulled
1. 8-5/8"	240	632	663	425 sacks Portland + 2% CaCl₂. Additional 12 sacks to annulus.	
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4314-4414'	Saline River	44	Bottom Hole Plug
2	3045-3145'	Roanling	62 + 2% CaCl₂	Felt @ 3032'
3	2220-2430'	Cretaceous	196 + 2% CaCl₂	Felt @ 2147'
4	615-715'	Surface	50 + 2% CaCl₂	Felt @ 600'
	Top of Surface Casing cut off 3' below ground level			
5	Top of Surface Casing		5	
Plate welded over surface casing & riser & sign welded to plate.				

The following logs have been run **Dual Induc. Lat.; BHC Sonic; SFP; Formation Density**
Other operations proposed **none**

Operations to be carried out by **Jennings International** Contractor Licence No. **770**
Address **736 8th Ave. W., Calgary / Drilling** Address
Responsible Agent in field **D. R. Nelson**

Dated at **Calgary**, this **4th** Day of **May** 19 **71**
Signed by **R. H. Ford** Company **Canadian Delhi Oil Ltd.**
Title **Vice President, Production** Operator's Exploratory Licence No. **1797**

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. G. E. Blue
on the **4th April 1971.**

Dated **May 11,** 19 **71**

G. E. Blue
Oil Conservation Engineer

Coremcal	Licence No.	1709
Petrorep	" "	1711
Petrol Oil & Gas	" "	1697
Kerr McGee of Canada Northwest Ltd.	" "	1678
Western Decalta	" "	1696

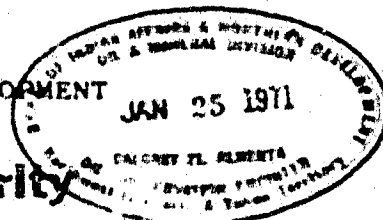
Drilling Authority No. 496

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application for a Drilling Authority

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

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

Name and number of well Candel DECKED et al Police Island L-66
Location: Unit L Section 66 Grid 64° 50' 125° 00'
Latitude 64° 45' 38" Longitude 125° 12' 57"
Unique Well Identifier 3003666450125000
Universal Well Location Reference Lat. 64-76055° N. Long. 125-21503° W.
Elevation: Ground 473 K.B. 485' E&E. feet above sea-level.
Well is expected to produce from M & L Devonian, Sil-Ord. formation at a depth
of about 3100 to 5100 feet. Expected total final depth 5335
Area assigned to well
(For Oil Conservation Engineer's use only)

Permit No. 6186 Lease No. - Acreage 27332
Permittee, licensee, or lessee (see over)
Exploratory Licence No. 1696
Surface owned by Crown

Petroleum and natural-gas rights owned by Crown
(If allocated submit name and address of owner and occupant)

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Barrels of Cement
1. 8-5/8	24	J-55	New	600	350
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment BOP stack & drilling fluid
M & L Devonian - Hume and Sil-Ord. - Ronning.

Well will be drilled with Rotary Rig No. 9 by Jennings International Drilling.
(Division of Western Electronics & Eng. Ltd.)

Responsible agent of applicant:— Contractor's business Licence No. 770
At well D. R. Nelson At registered office R. K. Terrell
Address 330 - 5th Ave. S.W., Calgary 1, Alta. Address 330 - 5th Ave. S.W., Calgary 1, Alta.
It is understood that if changes become necessary, notice of the change of plan will be submitted.
Dated at Calgary this 22nd day of January, 19 71
Signed by [Signature] Company Canadian Delhi Oil Ltd.
Title Land Manager Operator's Licence No. 1797

(For Oil and Mineral Division use only)

APPROVED

- This application has been examined and approved subject to the following conditions:—
- Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
 - The Company will submit to this office, on Tuesday of each week, the latest reports

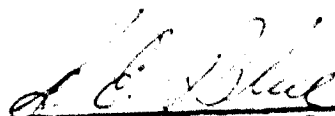
Dated 28th January 19 71 Please see over page

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. The surface casing is to be set at least 75 feet into a consolidated formation.
6. Any additional strings of casing are to be approved by the Oil Conservation Engineer prior to running.



B.H.J. Thors, Oil Conservation Engineer

1696	"	"	Western Decalta
1678	"	"	Kerr McGee of Canada Northwest Ltd.
1697	"	"	Petrol Oil & Gas
1711	"	"	Petrorep
Licence No. 1709			Corexcal

Drilling Authority No. 175

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

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

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

Candel DEKID et al Police Island L-66

Name and number of well

Location: Unit

Latitude

64° 45' 38"

Section

66

Grid

64° 50' 125° 00'

Longitude

125° 12' 57"

Unique Well Identifier

Universal Well Location Reference

Elevation: Ground

473

K.B.

485' Est.

feet above sea-level.

Well is expected to produce from

M & L Devonian, Sil-Ord.

formation at a depth

of about

3100 to 5100

feet.

Expected total final depth

5335

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No.

6186

Lease No.

-

Acreage

27332

Permittee, licensee, or lessee

(see over)

Exploratory Licence No.

1696

Surface owned by 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./7L)	Grade	New or Used	Estimated Depth	Backs of Cement
1. 8-5/8	24	J-55	New	600	350
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment BOP stack & drilling fluid
M & L Devonian - Hume and Sil-Ord. - Ronning.

Well will be drilled with Rotary Rig No. 9 by Jennings International Drilling.

(Division of Western Electronics & Eng. Ltd.)

Responsible agent of applicant:—

Contractor's Business Licence No. 770

At well D. R. Nelson

At registered office

R. K. Terrell

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this

22nd

day of

January,

19 71

Signed by

Company

Canadian Delhi Oil Ltd.

Title

Land Manager

Operator's Licence No.

1797

(For Oil and Mineral Division use only)

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Dated

21st January

19

71

Please see over page

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

received by radio on the progress of the well.

near Lobosca

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4. Draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. The surface casing is to be set at least 75 feet into a consolidated formation.
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B.H.J. Thorne
B.H.J. Thorne, Oil Conservation Engineer

9691	"	"	Western Decalta
1678	"	"	Kerr McGee of Canada Northwest Ltd.
1697	"	"	Petrol Oil & Gas
1711	"	"	Petroleum
1709	Licence No.		Corexcal

GEOLOGICAL PROGNOSIS

Well Name: Candel et al Police Island L-66
Location: L-66-64-50-125-00
Elevation: Ground 473' (shot point 862)
K.B. est. 485'
Operator: Canadian Delhi Oil Ltd.

<u>Formation</u>	<u>Drilling Depth</u>	<u>Sub-Sea Depth</u>
Tertiary	near surface	
Cretaceous	?	
M & L Devonian		
Hume	3235	-2750
Bear Rock	3835	-3350
Sil-Ord		
Ronning	4935	-4450
Total Depth	5335	-4850

Note: 1. Anhydrite can be expected in the Bear Rock section.

Samples: One bag of washed samples will be taken at 10 foot intervals from surface to total depth.

Testing: All tests at discretion of wellsite geologist.

Coring: If water free hydrocarbons are recovered on a test, a core should be cut and further tests run if warranted.

Logging:

Dual Ind. Laterolog	2" T.D. to surface casing 5" T.D. to surface casing
BHC Sonic Gamma w/Caliper	2" T.D. to surface casing 5" T.D. to surface casing
Formation Density	2" T.D. to surface casing 5" T.D. to surface casing
Sidewall Neutron Porosity	2" T.D. to surface casing 5" T.D. to surface casing

(Over)

Canadian Delhi Oil Ltd.,
28th Floor, Calgary Place No. 1,
330 - 5th Avenue S.W.,
CALGARY 1, Alberta.

Phone: 265-3430

K. E. Basaraba
D. M. Ericson
R. K. Terrell

Home Phone: 282-4698
" " 252-3277
" " 289-7652

GEOLOGICAL PROGNOSIS

Well Name: Candel et al Police Island L-66
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Elevation: Ground 473' (shot point 862)
K.B. est. 485'
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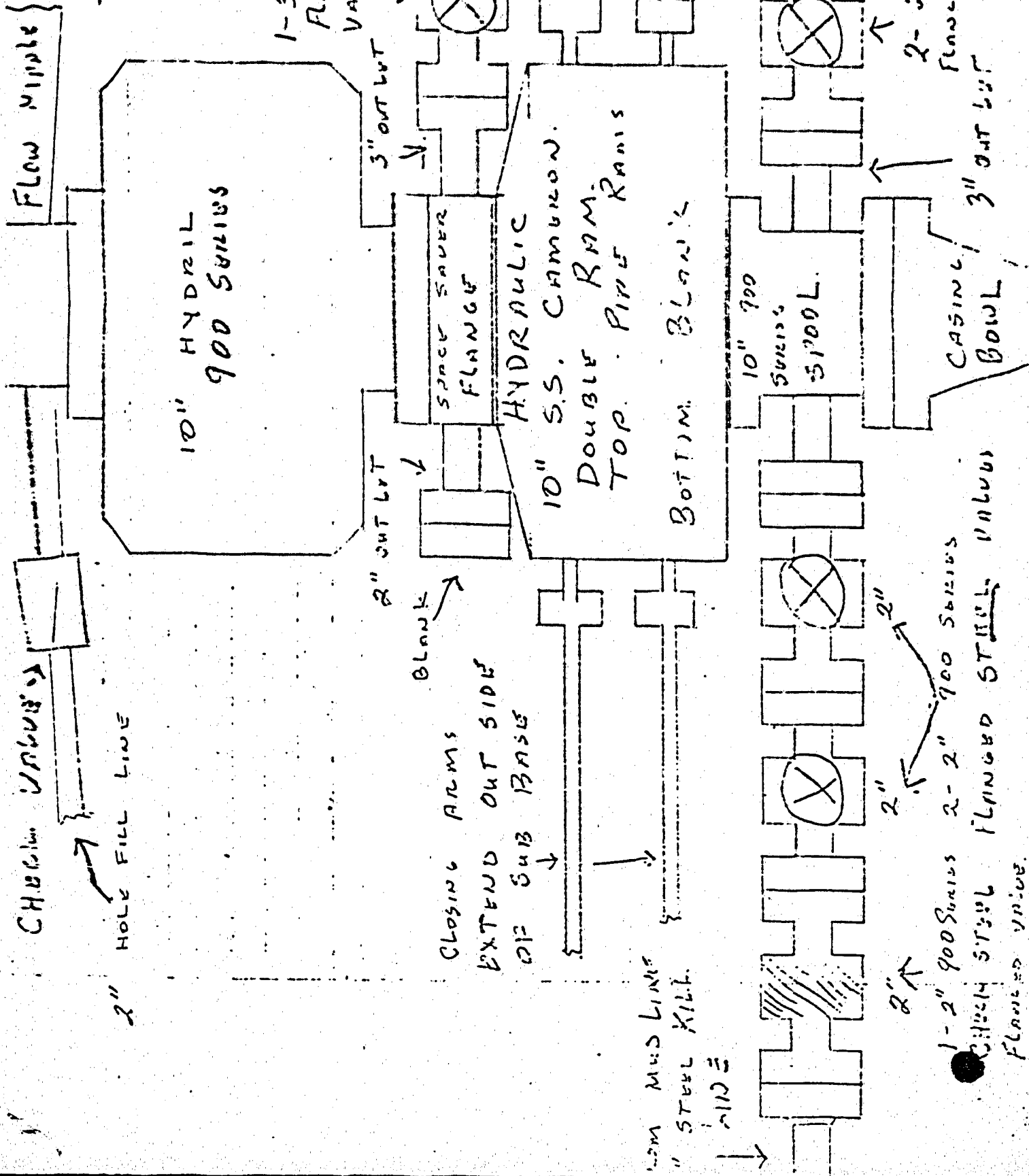
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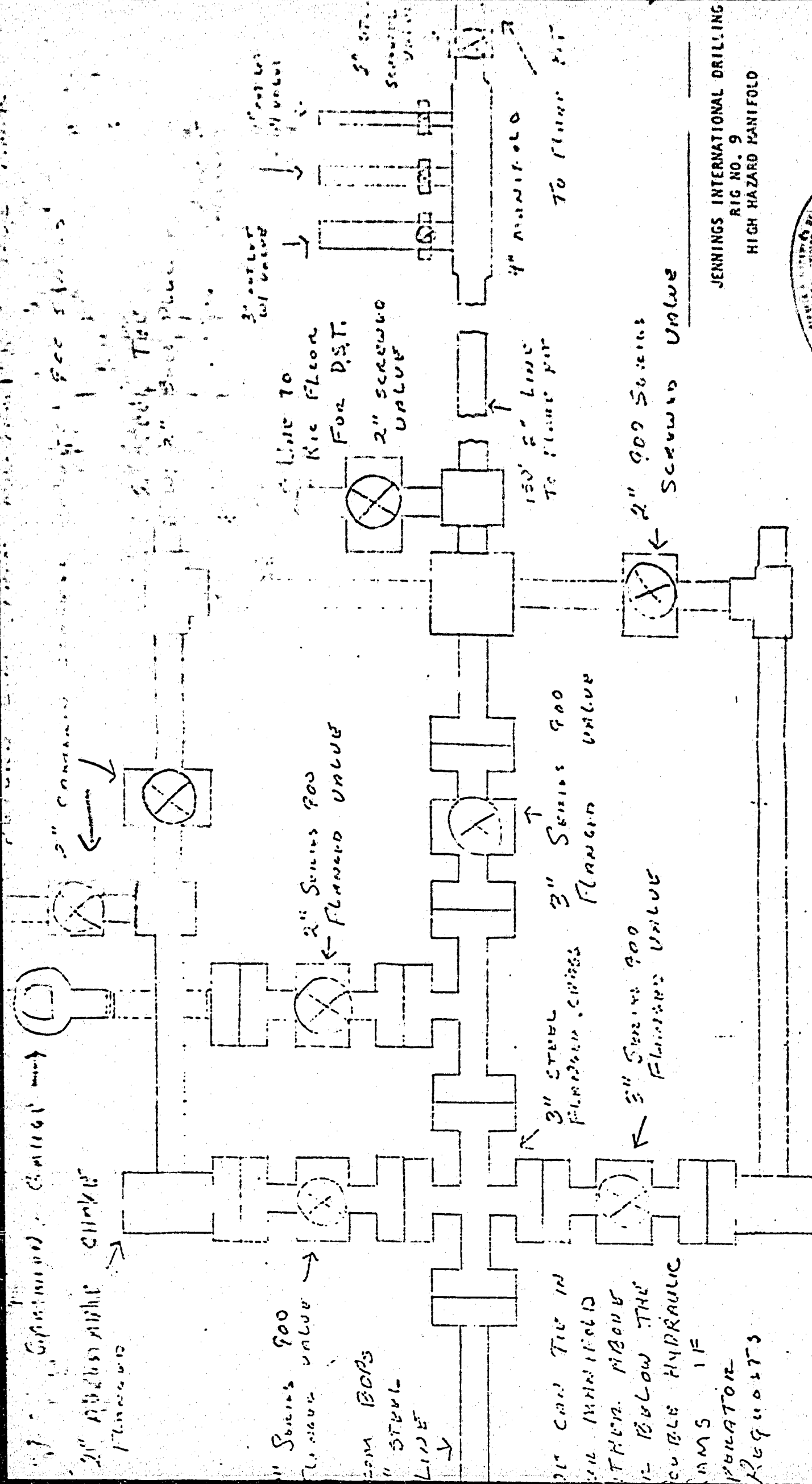
Canadian Delhi Oil Ltd.,
28th Floor, Calgary Place No. 1,
330 - 5th Avenue S.W.,
CALGARY 1, Alberta.

Phone: 265-3430

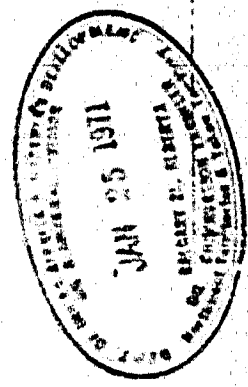
K. E. Basaraba
D. M. Ericson
R. K. Terrell

Home Phone: 282-4698
" " 252-3277
" " 289-7652





JENNINGS INTERNATIONAL DRILLING
RIG NO. 9
HIGH HAZARD MANIFOLD



2" STEEL TEE
w/ 2" BALL PLUG

PROTECTIVE CHECKS
FLANGES

IT CAN TIE IN
THE MANIFOLD
BELOW THE
DOUBLE HYDRAULIC
RAMS IF
OPERATOR
REQUESTS

2" SERIES 900
FLANGE VALVE
FROM BOPS
" STEEL
LINE

3" STEEL
FLANGES, 900
SERIES 900
FLANGE VALVE

2" SERIES 900
FLANGE VALVE

150' 2" LINE
TO FLOOR PIT

2" SCREWED
VALVE

LINE TO
RIG FLOOR
FOR D.S.T.

2" 900 SERIES
SCREWED VALVE

4" MANIFOLD

TO FLOOR PIT

3" OUTLET
VALVE

3" 900
SERIES
VALVE

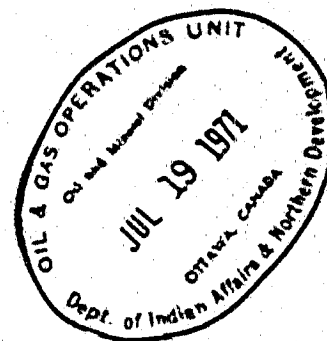
2" 900 SERIES
FLANGE VALVE

2" 900 SERIES
FLANGE VALVE

WELL HISTORY REPORT
ON
CANDEL DECKMG ET AL
POLICE ISLAND L-66
Northwest Territories

821-11-5-2

821-11-5-2



This is a concise report of the operations
conducted at the well

CANDEL DECKMC ET AL POLICE ISLAND L-66

Data in this report was compiled for
Canadian Delhi Oil Ltd. by W. R. Smith, P. Eng.,
Geological Consultant at the well.

K. E. Basaraba,
Canadian Delhi Oil Ltd.
May 13, 1971

WELL HISTORY REPORT

ON

CANDEL DECKMG ET AL POLICE ISLAND L-66

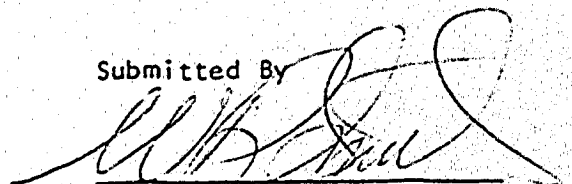
64° 45' 38"N 125° 12' 57"W

NORTHWEST TERRITORIES

CANADA

MAY 3, 1971

Submitted By

A handwritten signature in dark ink, appearing to read 'W.R. Smith', is written over a horizontal line.

W.R. Smith, P. Eng.

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GEOLOGICAL CONDITIONS AS FOUND IN THE WELL

The Candel DECKMG et al Police Island L-66 well was drilled on the flank of a seismic structure showing considerable magnitude on the Paleozoic. The well was drilled on the flank of the structure in an attempt to penetrate the porous beds of the Devonian and Silurian. On the crest of the structure these beds would almost certainly be removed by PreCretaceous erosion.

The Upper Sandstone of the Cretaceous was encountered at 2272 which was regionally high. A drillstem test of the Sandstone yielded 1050' of fresh water. The Middle and Lower Sandstones of the Cretaceous were not present but in the place of the Lower Sandstone, a Basal Chert sand was encountered. This sand consisted of white chert medium to coarse grains and minor amounts of medium rounded frosted quartz grains. This sand almost certainly has to be an erosion product of the Ronning cherty beds. It was almost completely unconsolidated and yielded salt water on drillstem test.

The Ronning Rhythmic unit was encountered at 3096 as a red bed shale followed by grey limestone. In the interval 3330-3340 an unconsolidated white chert and quartz sand was encountered with some fluorescence evident. A test yielded mud with the test chart indicating a very limited reservoir.

No further porosity was encountered in the well and the Saline River formation was encountered at 4242. The well bottomed in the red and green shales of this formation.

SUMMARY OF WELL DATA

Name of Well: Candel DECKING et al Police Island L-66

Location: 64° 45' 38"W 125° 12' 57"W
L - 66 - 64 - 50 - 125 - 00

Universal Well
Location Reference: Lat 64.76055°N
Long 125.21583°W

Permittees:

Corexcal	Licence No. 1709
Petrorep	Licence No. 1711
Petrol Oil & Gas	Licence No. 1697
Kerr McGee of Canada Northwest Ltd.	Licence No. 1678
Western Decalta	Licence No. 1696

Operator: Canadian Delhi Oil Ltd.,
28th Floor, Calgary Place,
330 - Fifth Avenue S.W.,
CALGARY 1, Alberta.

Unique Well Identifier: 300L666450125000

Permit No. 6186

Drilling Contractor: Jennings International Drilling, Rig No. 9, GA500 Emsco

Drilling Authority: No. 496 Issued January 28, 1971

Classification: New field wildcat

Elevations:

Ground Level	473'
Kelly Bushing	486'

WELL DATA CONT'D.

Spudded: 6:30 P.M. March 12, 1971

Drilling Completed: April 2, 1971

Total Depth: 4414' K.B. (Driller) 4416' K.B. (Logger)

Well Status: Dry & Abandoned

Rig Released: 11:59 P.M. April 5, 1971

Hole Sizes: 12 1/4" 0-665 K.B.
7 7/8" 665-4414 K.B.

Casing: On March 14, 1971, ran 18 joints of 8 5/8", 24#, J-55, 8rd. Rge. 2, Mannesman casing being 669' set at 665 K.B. and cemented with 425 sacks of Portland plus 2% CaCl₂.

Geologist: W.R. Smith

Engineer: D.W. Nelson

Toolpusher: G. Ludviksen

CANDEL DECKMG ET AL POLICE ISLAND L-66

TABLE OF FORMATIONS

<u>Formations</u>	<u>Prognosis Depth</u>	<u>Drilling Depth</u>	<u>E-log Depth</u>	<u>E-log Elevation</u>
Tertiary	Near Surface			
Cretaceous	7	300		
Upper Sand		2270	2272	-1786
Basal Chert Sand		2966	2967	-2481
Devonian				
Hume	3235			
Bear Rock	3835			
Sil-Ord				
Ronning -				
Rhythmic	4935	3095	3096	-2610
Cyclic		3840	3812	-3326
Cambrian				
Saline River		4230	4242	-3756
Total Depth	5335	4413	4414	-3928

Core Intervals

Interval	Recovery Number of Boxes		Formation
4287-4313	25	7	Saline River

CORE DESCRIPTIONS

4287 - 4313 Porous Non-Porous

Core No. 1, Rec. 25 ft., Times - 9, 9, 11, 17, 22, 23, 24, 28, 8, 21, 27, 35, 37, 29, 28, 22, 23, 24, 19, 22, 20, 25, 25, 27, 16, 20

A - B 0.9

Siltstone - light grey to buff, medium hard to soft, calcareous, pyritic; interbedded with shale-black, soft to medium hard, calcareous, minor inclusions of calcite.

B - C 1.8

Siltstone - buff, medium hard, slightly calcareous; interbedded with fine beds of shale-green, medium hard, waxy, small brecciated area infilled with shale-black, soft to medium hard, calcareous; calcite infilling of high angle fracture, slickensiding, bedding at 15° (approximate).

C - E 4.3

Shale-red, medium hard, waxy, interbedded with fine beds of shale-green, waxy, medium hard; a few bands of siltstone-buff, medium hard, dolomite, some inclusions of calcite, bedding at approximately 15°, much slickensiding.

E - F 2.1

Shale-green, medium hard, dolomitic, waxy, interbeds of siltstone-buff, medium hard; calcite inclusions, minor faults, bedding at approximately 15°, much slickensiding

F - G 0.5 3.3

Shale-red, medium hard, waxy in part, slightly dolomitic, minor beds of sandstone-buff, medium hard, very fine grained, sorted quartzose (subrounded grains), dolomitic, trace of poor porosity, no staining; shale partings-green, medium hard, waxy, slickensiding, bedding at 15°

G - H 12.2

Siltstone - buff and grey, medium hard, slightly dolomitic in part (50% of section); shale-green, medium hard, waxy in part, dolomitic in small part, as fine breaks in the above siltstone or interbedded with red shale (35% of section); shale-red, medium hard, finely interbedded with siltstone or green shale (15% of section), small faults, bedding at 15° to horizontal.

CANDEL DECKING ET AL POLICE ISLAND L-66SAMPLE DESCRIPTIONS

Samples Lagged below 2000'

- 40 - 50 Shale - grey and light brown, soft, bentonitic in part, carbonaceous partings; siltstone - grey and light brown, soft, grading to sandstone - grey (salt & pepper), soft, very fine grained, unsorted, quartzose (subrounded grains), argillaceous,
- 50 - 60 Shale - grey and light brown, soft, bentonitic in part, carbonaceous partings; siltstone - grey and light brown, soft; trace of chert pebbles - varicolored and granitic pebbles - varicolored, coarse grained, trace of coal - black, soft,
- 60 - 80 Shale - grey and light brown, soft, bentonitic, siltstone - grey, soft, micromicaceous; sandstone - grey, soft, fine grained to very fine grained, unsorted, quartzose (subrounded grains), mafic (subrounded grains), argillaceous, carbonaceous partings,
- 80 - 100 Shale - grey and light grey brown, soft, carbonaceous partings; trace sandstone - grey (salt & pepper), fine to medium grained, medium sorting, quartzose (subrounded grains), chert (subrounded grains) micaceous,
- 100 - 110 Shale - grey and light grey brown, soft, carbonaceous partings in part, sandy in part,
- 110 - 120 Shale - grey and light grey brown, soft; siltstone - grey and light grey brown, soft, micromicaceous in part,
- 120 - 130 Shale - grey to dark grey and light grey-brown, soft, to medium hard; siltstone - grey and light grey brown, soft micromicaceous,
- 130 - 150 Shale - light grey to grey, soft, bentonitic in part, carbonaceous partings common; trace of coal - black, soft, vitreous to fibrous,
- 150 - 180 Shale - light grey to grey, soft, bentonitic in part, carbonaceous partings in part, sandy and silty in part; sandstone - light grey (salt & pepper), soft, fine grained, unsorted to sorted, quartzose (sub angular grains), mafics (sub angular grains), argillaceous in part,

- 180 - 190 Shale - light grey and grey brown, soft, silty in part, sandy in part; sandstone - light grey, soft, (salt & pepper), medium sorting, fine grained, quartzose (subrounded grains), mafic (subrounded grains), trace of coal - black, soft,
- 190 - 220 Sandstone - grey (salt & pepper), fine to medium grained, medium sorting, chert (subrounded grains), quartzose (subangular to subrounded), argillaceous in part, very slightly calcareous,
- 220 - 250 Sandstone - grey to dark grey, soft, fine grained, medium sorting, quartzose (subrounded to rounded) chert (subrounded grains), calcareous, micaceous,
- 250 - 270 Shale - grey, soft, bentonitic in part, micromicaceous in part, carbonaceous partings in part,
- 270 - 280 Shale - grey, soft, bentonitic in part, micromicaceous in part, carbonaceous partings in part; coal - black, soft, vitreous in part,
- 280 - 290 Shale - grey and grey brown, soft, bentonitic in small part, carbonaceous partings common, silty in part, sandy in part,
- 290 - 300 Shale - grey and grey brown, soft, bentonitic in small part, carbonaceous in part, silty in part, sandy in part; sandstone - grey (salt & pepper), soft, fine grained, medium sorting, chert (subrounded grains), quartz (subrounded grains), very slightly calcareous,
- 300 - 310 Shale - grey and grey brown, soft, carbonaceous, many floating chert grains - grey and black, fine to medium grained, rounded to angular, much carbonaceous material,
- 310 - 350 Shale - grey and grey brown, soft, silty in part, many floating chert grains - grey to black, fine to coarse, rounded; sandstone - light grey, soft, fine grained, poor sorting, quartzose (subangular grains), chert (subrounded grains) argillaceous in part,
- 350 - 370 Shale - grey and grey brown, soft, micromicaceous, trace of floating chert pebbles - grey to black, fine to coarse, rounded,
- 370 - 390 Shale - grey and grey brown, soft, micromicaceous, silty in part; trace of floating chert pebbles - grey to black, fine to coarse, rounded
- 390 - 400 Shale - grey and grey brown, soft, silty in large part, some carbonaceous partings,
- 400 - 410 Shale - grey and grey brown, soft, silty in part; floating chert pebbles - grey and black, fine to coarse, rounded,

- 410 - 430 Shale - grey and grey brown, soft, silty in part; floating chert pebbles - grey and black, fine to medium, rounded; sandstone - grey, (salt & pepper), fine grained, medium sorting, chert (subrounded grains), quartz (subrounded), argillaceous in small part,
- 430 - 440 Sandstone - light grey, soft, fine to medium grained, medium sorting, chert (rounded grains), quartz (subrounded to rounded grains), kaolinite, floating chert grains - black, fine to medium grains, rounded; siltstone - grey, soft,
- 440 - 500 Shale - grey, soft, silty in part, floating chert grains, black, fine to medium grained, rounded; trace sandstone - grey (salt & pepper), fine grained, medium sorting, chert (rounded grains), quartz (subrounded grains), kaolinitic,
- 500 - 550 Shale - grey, soft, bentonitic in part, silty in part, carbonaceous partings, micromicaceous in part, trace of chert grains (floating) - black, fine to medium grained, rounded to subrounded,
- 550 - 570 Shale - grey, soft, bentonitic in part, much carbonaceous material,
- 570 - 610 Shale - grey, soft, bentonitic in part, micromicaceous in part, trace of coal - black, soft
- 610 - 630 Coal - black, soft; shale - grey, soft, bentonitic, silty in part,
- 630 - 650 No samples caught
- 650 - 660 Shale - grey and grey brown, soft, silty in part; sandstone - light grey, soft, (salt & pepper), fine grained, unsorted, quartzose (subangular), chert (angular to subrounded), argillaceous in part,
- 660 - 690 Sand - clear and black and grey, completely unconsolidated, fine to medium grained, medium sorted, chert (subrounded grains), quartz (sub angular)
- 690 - 830 Sand - clear, grey and black, completely unconsolidated, fine grained, medium sorting, chert (subangular to subrounded grains), quartz (subangular to angular) trace of mica
- 830 - 930 Sand - clear, grey and black, completely unconsolidated, fine grained to very fine grained, medium sorted, chert (sub angular to subrounded), quartz (sub angular to angular) mica,
- 930 - 950 Siltstone - grey, medium hard, grading to sandstone - grey, medium hard, very fine grained, poor to medium sorting, quartzose (subrounded grains), chert (subrounded grains) argillaceous, micaceous in part,

- 950 - 960 Sand - black, grey and clear, completely unconsolidated, fine grained to medium grained, medium sorting, chert (subrounded to rounded), quartz (sub angular), mica; sandstone - grey, very fine grained, poor sorting, chert (subrounded grains), quartz (sub angular), argillaceous,
- 960 - 1010 Siltstone - grey, medium hard, carbonaceous partings, mica
- 1010 - 1140 Siltstone - grey, medium hard, carbonaceous partings, mica; shale - grey, soft, carbonaceous partings in part, micromicaceous in part,
- 1140 - 1150 Siltstone - grey, medium hard, carbonaceous partings, sandy in part; sand - clear to black, completely unconsolidated, medium sorting, fine grained, chert (subrounded grains), quartz (sub angular grains), mica,
- 1150 - 1190 Siltstone - grey, medium hard, micaceous, sandy in part, sandstone - grey, medium hard, fine to very fine grained, chert (subrounded grains), quartz (sub angular grains), argillaceous in part,
- 1190 - 1230 Siltstone - grey, medium hard, micromicaceous, sandy in part, pyritic; shale - grey green, medium hard, chert floating grains - varicolored, medium to coarse, round; limestone - cream to buff, medium hard, fine grained,
- 1230 - 1240 Siltstone - grey, medium hard, micaceous, sandy in part, shaly in part; sandstone - grey, fine to very fine grained, medium hard, unsorted, chert (subrounded grains), quartz (sub angular), mica, argillaceous, shale - grey green, soft, bentonite, fossils, very poor sample
- 1240 - 1340 Siltstone - grey, medium hard, micaceous, sandy in part, shaly in part; chert (floating grains) - black, fine to coarse, round; pyrite; shale - grey green, soft; fossils; shale - light grey, soft, very poor sample
- 1340 - 1560 Shale - grey, soft, bentonitic; siltstone - grey, medium hard, micaceous; chert (floating grains) - black, fine to coarse, round; pyrite, shale - grey green, soft, fossils
- 1560 - 1570 Sandstone - grey, medium hard, fine to very fine grained, poorly sorted, quartzose (subrounded grains), chert (subrounded to rounded), argillaceous, calcareous, poor porosity in 5% of cuttings, no fluorescence, pyrite,
- 1570 - 1590 Siltstone - grey, medium hard, pyrite; shale - grey, medium hard; sandstone - grey (salt & pepper), medium hard, fine to very fine grained, poor sorting, chert (sub angular grains), quartz (subrounded), argillaceous,
- 1590 - 1610 Shale - light brown, medium hard, very slightly calcareous; pyrite

1610 - 1620	Siltstone - grey, medium hard, sandy in part,
1620 - 1630	Sandstone - grey, medium hard, fine grained to very fine grained, poorly sorted, quartzose (sub angular to subrounded grains), chert (subrounded grains), argillaceous in part, pyrite
1630 - 1680	Sandstone - grey medium hard, very fine grained, poorly sorted, quartzose (sub angular to subrounded grains) chert (subrounded grains), argillaceous in part; siltstone - grey, medium hard, pyrite
1680 - 1700	Shale - light to dark grey, medium hard; siltstone - grey, medium hard, sandy in part, pyritic
1700 - 1760	Shale - grey, medium hard; siltstone - grey, medium hard, sandstone - grey (salt & pepper), medium hard, fine to very fine grained, poorly sorted, quartzose (subangular grains), chert (subrounded grains), argillaceous, trace of glauconite, pyritic, fossils
1760 - 1770	Shale - grey to black, medium hard, fissile in part; siltstone - grey, medium hard, pyritic, sandy in part,
1770 - 1830	Shale - grey to black and dark green, medium hard; siltstone - grey, medium hard, pyritic; sandstone - grey (salt & pepper) medium hard, fine to very fine grained, unsorted, quartz (subrounded grains), chert (sub angular grains), micaceous, argillaceous, pyrite,
1830 - 1850	Shale - grey and dark green, medium hard; siltstone - grey, medium hard, sandy in part; pyrite,
1850 - 1900	Shale - grey to black, medium hard, slightly calcareous, silty in part, micromicaceous in part,
1900 - 1920	Shale - grey to dark green and black, medium hard to soft, silty in part, micaceous in part, trace of pyrite,
1920 - 1970	Shale - grey, soft; shale - light grey to grey green; pyrite; trace sandstone - grey and green, medium hard, fine grained, unsorted, quartz (sub angular grains), argillaceous, glauconitic,
1970 - 2010	Shale - grey to grey brown and dark green, soft; siltstone - grey and grey brown, soft, calcareous in part, sandy in part; sandstone - light grey and grey green, soft, fine to very fine grained, unsorted, quartzose (subrounded grains), argillaceous, calcareous in part, pyrite,
2010 - 2020	Shale - brown, medium hard; shale - grey to black, soft, silty in part, micaceous in part,
2020 - 2050	Shale - grey and dark green, medium hard to soft, silty in part, sandy in part, pyritic; siltstone - grey, medium hard,

- 2050 - 2070 Shale - grey, medium hard; siltstone - grey, medium hard; sandstone - grey (salt & pepper), medium hard, fine to very fine grained, unsorted, quartz (subangular), chert (subangular) argillaceous, calcareous; pyrite,
- 2070 - 2090 Shale - grey to dark grey and dark green, medium hard; siltstone - grey, medium hard
- 2090 - 2110 Shale - grey to dark grey, medium hard; shale - green and dark green, medium hard, splintery in part; siltstone - grey, medium hard,
- 2110 - 2190 Shale - grey, medium hard, silty in part; shale - green to dark green and brown to black, splintery in part; siltstone - grey, medium hard; pyrite common
- 2190 - 2250 Shale - grey, medium hard, silty in part, shale brown, hard; siltstone - grey, medium hard, pyrite common
- 2250 - 2270 Shale - grey to black, medium hard, splintery in small part; Siltstone - grey, medium hard, sandy in part; pyrite common; sandstone - grey, medium hard, fine grained, poorly sorted, quartz (subrounded grains), chert (subangular grains), calcareous in part, argillaceous in part,
- 2270 - 2290 Shale - grey to black, medium hard, splintery in small part; siltstone - grey, medium hard; pyrite common; chert - varicolored, medium to coarse grains (pebbles), shards and rounded pebbles; sandstone - grey, (salt & pepper), medium hard, fine grained, medium sorted, quartzose (subrounded grains), chert (subrounded grains), argillaceous, floating chert pebbles in sandstone - varicolored, coarse, round, no effective porosity
- 2290 - 2300 Sandstone - grey and grey brown, (salt & pepper), medium hard to soft, very fine grained, medium sorting, quartzose (subrounded grains), chert (subangular grains), trace of glauconite, argillaceous in small part, calcareous, micaceous, chert pebbles - varicolored, coarse to medium rounded,
- 2300 - 2320 Sandstone - grey and grey brown (salt & pepper), medium hard, very fine grained, medium sorting, quartzose (subrounded grains), chert (subangular grains), trace of glauconite, argillaceous in small part, calcareous in part, micaceous trace of poor porosity, no fluorescence,
- 2320 - 2345 Sandstone - grey to brown, medium hard to soft, very fine grained, medium to well sorted, quartzose (subrounded grains) chert (subrounded grains), much siderite matrix, poor to fair porosity in 10% of cuttings, no fluorescence, shale - brown, hard, sideritic
- 2345 - 2380 Sandstone - grey to brown, medium hard to soft, very fine grained, medium to well sorted, quartzose (subrounded grains). chert (subrounded grains), much siderite cement, trace of poor porosity, no fluorescence, pyritic

- 2380 - 2420 Sandstone - grey to dark grey and brown, medium hard, very fine grained, poorly sorted, quartzose (subrounded grains), chert (rounded grains), micaceous, pyritic, argillaceous; siltstone - grey, medium hard, sand grains (floating) fossils
- 2420 - 2440 Siltstone - light to dark grey, medium hard, very slightly calcareous; shale - grey to dark grey, medium hard, much pyrite; sandstone - light grey to grey, medium hard, very fine grained, poorly sorted, quartzose (subangular grains), chert (subrounded grains) slightly calcareous, argillaceous in part, fossils,
- 2440 - 2490 Siltstone - light to dark grey, medium hard, very slightly calcareous, sandy in part; shale - light grey to black, medium hard; pyrite, micaceous in part,
- 2490 - 2520 Shale - light grey to dark red, medium hard; siltstone - grey, calcareous in part, medium hard, pyrite
- 2520 - 2540 Shale - light grey to dark red, medium hard; siltstone - grey, calcareous in part, medium hard, pyrite; sandstone - grey, medium hard, very fine grained, poorly sorted, quartzose (subrounded grains), chert (subrounded to rounded grains), argillaceous, pyritic, slightly calcareous,
- 2540 - 2560 Shale - light to dark grey and brown and dark red, medium hard; siltstone - grey and brown, medium hard, pyritic
- 2560 - 2630 Shale - light to dark grey and dark brown, medium hard, siltstone - grey, medium hard
- 2630 - 2640 Shale - light to dark grey and light to dark brown, medium hard, siltstone - light grey to grey and brown, medium hard, slightly calcareous; sandstone - grey, medium hard, very fine grained, poor sorting, quartzose (subrounded grains), chert (subrounded grains), argillaceous, slightly calcareous
- 2640 - 2650 Shale - brown and light to dark grey, medium hard; siltstone - light grey to grey, medium hard, very slightly calcareous; sandstone - light grey, medium hard, very fine grained, medium to well sorted, quartzose (rounded to subrounded grains), chert (subrounded grains), argillaceous in part, trace of poor porosity 10% in 2% of cuttings, no fluorescence, much pyrite
- 2650 - 2700 Shale - grey to dark grey and dark brown, medium hard, very slightly calcareous; siltstone - light grey, medium hard, sandy in part, pyrite,
- 2700 - 2780 Shale - grey to dark grey and brown to dark brown, medium hard; siltstone - grey to dark grey and brown, medium hard, calcareous in small part; sandstone - grey to dark grey, medium hard, very fine grained, poorly sorted, quartzose (subrounded grains), chert (subrounded grains), argillaceous in part, slightly calcareous, micaceous in part,

- 2780 - 2820 Shale - grey to very dark grey, medium hard; siltstone - grey, medium hard, micaeous in part, sandy in part, pyrite
- 2820 - 2860 Shale - grey to very dark grey and brown, medium hard, siltstone - grey to grey brown, medium hard, sandy in part, pyritic sparse, fossils,
- 2860 - 2870 Shale - grey to very dark grey and brown, medium hard; siltstone - grey to grey brown, medium hard, sandy in part, pyritic sparse, fossils,
- 2970 - 3010 Sand - white to grey, completely unconsolidated in large part, medium to coarse grains, medium sorting, chert (95%) (angular to rounded grains), quartz (3%) (angular grains mainly crystals), pyrite imbedded in chert, grains contain pseudo oolites; sandstone (2%) - white, soft, fine grained, well sorted; quartzose (subrounded grains), no fluorescence; some of the above chert grains are ripolitic and some appear to have rounded quartz sand grains surrounded by chert. This sand would appear to be a derivation from a not too distant Ronning chert source.
- 3010 - 3030 Chert pebbles - white to grey, completely unconsolidated in (70%) medium to coarse grained, medium sorting, chert (subrounded to rounded) quartz (30%) (angular to round grains); sandstone - white to buff, soft, fine grained, well sorted, quartzose (subrounded grains), fair to good porosity, no staining,
- 3030 - 3060 Sandstone - buff, cream and light grey, soft, fine grained, quartz (subrounded), well sorted, poor to fair porosity, no staining; chert pebbles - white to grey, medium to coarse grained, unconsolidated, rounded, to angular
- 3060 - 3080 Chert pebbles - white to grey, medium to coarse grained, medium sorting, angular to rounded, frosted in part; sandstone - light grey, soft, very fine grained, medium sorting, quartzose (rounded to subrounded grains), very slightly calcareous, kaolinitic,
- 3080 - 3090 Sand - clear to white, fine to medium grained, medium sorting, completely unconsolidated, chert (70%) (angular to round grains), quartz (30%) (angular to rounded) (frosted in part),
- 3090 - 3100 Sand - clear to grey and yellow, completely unconsolidated, poor sorting, chert (angular to round grains) (frosted in part), quartz (15%) (angular to round) (frosted in part), pyrite imbedded in grains; shale-red, soft,
- 3100 - 3120 Shale - red, soft, sand - clear to grey and yellow, completely unconsolidated, poor sorting, chert (angular to round grains) (frosted in part), quartz (15%) (angular to round) (frosted in part), pyrite imbedded in grains,

- 3120 - 3150 Limestone - grey to dark grey, soft to medium hard, cryptograined, slightly argillaceous, chalky in part, interbedded with trace of shale-green, medium hard
- 3150 - 3250 Limestone - grey to dark grey and buff to dark brown and pink, medium hard to soft, cryptograined to micrograined, chalky in part, trace of shale-red, soft, trace of shale - green, medium hard, slightly calcareous,
- 3250 - 3290 Limestone - buff to dark brown, medium hard to soft, cryptograined to micrograined, chalky in part, trace dolomite - buff to brown, cryptocrystalline to microcrystalline, medium hard, dense; shale (trace) - red, soft, trace of calcite crystals
- 3290 - 3300 Limestone - buff to dark brown and pink to red, medium hard, cryptograined to fine grained, chalky in small part, pelletoidal in part, calcite crystals; interbeds of shale - red and green, soft, waxy in part,
- 3300 - 3320 Dolomite - buff to grey, medium hard to very hard, microcrystalline, siliceous, dense, inclusions of calcite; limestone - buff to dark brown and pink to red, cryptograined to fine grained, calcite crystals; interbeds of shale - red and green, soft, waxy in part,
- 3320 - 3330 Dolomite - buff to grey, medium hard to very hard, microcrystalline to cryptocrystalline; limestone - buff and orange to dark brown, medium hard, cryptocrystalline, dense, interbedded with shale - green and red, soft; chert - white to light grey, medium to coarse fragments, may be conglomerate
- 3330 - 3340 Chert pebbles - white to buff and brown, also quartz pebbles (20%), unconsolidated, medium to coarse grained, angular to round, frosted in part; shale - green, soft, infilling porosity in part; limestone - buff to brown, medium hard, cryptograined, dense, no staining in above sand, some fluorescence, sample had a somewhat oily odor.
- 3340 - 3350 Limestone - grey and grey green and buff to brown, medium hard, cryptograined to micrograined, chalky in small part, calcite crystals; chert - white to grey, shale - red and green, soft,
- 3350 - 3370 Limestone - buff, grey and pink to red, medium hard, cryptograined to micrograined, chalky in small part, slightly argillaceous in part; shale - red and green, soft, waxy in part, dolomitic in part,
- 3370 - 3430 Limestone - buff to brown and pink to red, medium hard, cryptograined to fine grained, slightly argillaceous in part, pelletoidal in part; interbedded with minor amounts of shale - red to green; trace of dolomite - grey and buff to brown, medium hard, cryptocrystalline, slightly argillaceous, dense

- 3430 - 3460 Limestone - grey to dark grey and buff, red and dark brown, medium hard to very hard, cryptograined to micrograined, siliceous in part, dense; trace of shale - red, soft.
- 3460 - 3490 Limestone - grey to dark grey and buff, red and dark brown, medium hard to very hard, cryptograined to micrograined, siliceous in part, dense; dolomite - dark grey, cryptocrystalline, dense, trace of shale - red, soft.
- 3490 - 3510 Limestone - buff to brown and light to dark grey, medium hard, cryptograined, chalky in small part, very slightly argillaceous; dolomite - grey and dark grey, medium hard, cryptocrystalline, slightly argillaceous; shale - dark grey, medium hard, slightly fissile, calcareous.
- 3510 - 3520 Limestone - buff to brown and dark grey, medium hard, cryptograined, chalky in small part, slightly argillaceous; dolomite - grey green and grey, medium hard, cryptocrystalline, slightly argillaceous; shale - red and green, soft to medium hard, slightly calcareous.
- 3520 - 3560 Limestone - grey to dark grey and buff to red and dark brown, medium hard to very hard, siliceous in part, silty in part, argillaceous in part, dense, trace of calcite; trace of shale - red, medium hard, dolomitic.
- 3560 - 3570 Limestone - grey brown, medium hard, cryptograined to fine grained, slightly argillaceous, chalky in small part; trace of shale - green, medium hard, calcareous.
- 3570 - 3590 Limestone - grey brown and red and pink, medium hard, cryptograined to fine grained, slightly argillaceous, chalky in small part, dolomitic in small part, trace of shale - red soft.
- 3590 - 3620 Limestone (dolomitic in part) - buff to brown and grey to dark grey, medium hard, cryptograined to micrograined, very slightly argillaceous, dense, trace of calcite crystals, shale - dark grey, medium hard, calcareous.
- 3620 - 3640 Limestone - buff to brown and light to dark grey, medium hard, cryptograined to micrograined, slightly argillaceous, trace of calcite crystals.
- 3640 - 3650 Dolomite - white to brown and dark red, very hard, cryptocrystalline to fine crystalline, very siliceous in part, dense; chert - white to buff and light green, tripolitic in small part, rounded faces as if parts of pebbles in part, quartz pebbles - clear, rounded, frosted; grains in this sample have green clay coating, quartz crystals, clear, no staining, no fluorescence; trace of green clay infilling porosity.
- 3560 - 3680 Limestone - buff to dark brown and light grey and grey-green, medium hard, slightly argillaceous in part, cryptograined to micrograined, dense, trace of calcite crystals; trace of shale - green, medium hard, trace of shale - red, soft.

- 3680 - 3690 Limestone - buff to dark brown and pink, medium hard, cryptograined to micrograined, very slightly argillaceous, dense; shale - red and green, medium hard to soft,
- 3690 - 3700 Limestone (dolomitic in part) - buff to dark brown and light grey to dark grey, cryptograined to fine grained, slightly argillaceous in part, dense, trace of calcite crystals, chalky in small part, shaly in small part, sandy in part (quartz crystals)
- 3700 - 3720 Limestone (dolomitic in small part) - buff, grey and dark brown, medium hard to soft, cryptograined, slightly argillaceous in small part, chalky in part, evidence of fractures, shaly in small part,
- 3720 - 3740 Limestone - buff to dark brown and pink to dark red, medium hard, cryptograined, slightly argillaceous in part, chalky in small part, dense, trace shale - red, soft,
- 3740 - 3750 Limestone (dolomitic in small part) - buff to dark brown, medium hard to soft, cryptograined, slightly argillaceous in part, chalky in part, trace of shale - red, soft, evidence of fractures,
- 3750 - 3790 Limestone - buff to brown and red, medium hard, crypto to micrograined, dolomitic in part, slightly argillaceous in part, trace of shale - red, soft,
- 3790 - 3810 Limestone - buff to dark brown, medium hard, cryptograined to micrograined, dolomitic in part, slightly argillaceous in part; dolomite - brown and red, medium hard, cryptocrystalline, argillaceous; trace of shale - red, soft,
- 3810 - 3840 Limestone - buff and orange to dark brown and pink to red, medium hard, cryptograined to fine grained, slightly argillaceous in part, dense, dolomite - pink to dark red, medium hard, cryptocrystalline to microcrystalline, slightly argillaceous, dense; trace of shale - red, soft to medium hard, calcareous in part,
- 3840 - 3880 Dolomite (slightly limy in part) - buff to dark brown and dark grey, medium hard, cryptocrystalline to microcrystalline, microsucrosic in large part, slightly argillaceous, shale - dark grey, medium hard, dolomitic,
- 3880 - 3890 Dolomite (limy in part) - buff, orange, red and dark brown to dark grey, medium hard, cryptocrystalline to microcrystalline, microsucrosic in large part, slightly argillaceous; limestone - grey to dark grey, argillaceous, cryptograined, shaly in part,
- 3890 - 3900 Dolomite (slightly limy) - dark grey and buff, orange, red and dark brown, medium hard, cryptocrystalline to microcrystalline, slightly argillaceous; trace of shale - red, soft,
- 3900 - 3910 Limestone - buff to dark brown and pink to dark red, medium hard, cryptograined to micrograined, slightly argillaceous in part, dense,

- 3910 - 3950 Limestone - light to dark grey and buff, yellow and red, medium hard, cryptograined to argillaceous in part, shaly in part, dense; trace of shale - red, soft, trace shale - dark grey, medium hard, dolomitic,
- 3950 - 4000 Limestone - red to pink and yellow, dark grey to buff and light grey, medium hard, cryptograined, argillaceous in part; dense, shale - red, soft to medium, calcareous in part; shale - grey to dark grey, medium hard, calcareous,
- 4000 - 4030 Limestone (dolomitic in part) - red to pink, yellow, dark grey to buff, medium hard, cryptograined, argillaceous in part, dense; dolomite - buff to brown, medium hard, crypto-crystalline, slightly argillaceous in part, dense; shale - dark grey, medium hard, dolomitic; trace shale - red, soft,
- 4030 - 4040 Limestone - buff, yellow to dark brown and red and light to dark grey, medium hard, cryptograined to micrograined, slightly argillaceous, slightly dolomitic in part, dense; shale - dark grey, medium hard, dolomitic,
- 4040 - 4060 Limestone - red and yellow to brown, medium hard, cryptograined to fine grained, slightly argillaceous, slightly dolomitic; shale - dark grey, medium hard, dolomitic,
- 4060 - 4080 Shale - grey to dark grey, medium hard, dolomitic; dolomite - buff, yellow to brown and dark red, medium hard, crypto-crystalline, argillaceous in part, dense; limestone - buff to brown, medium hard, cryptograined, argillaceous in part, dense,
- 4080 - 4100 Shale - grey, dark grey and red to brown, medium hard, dolomitic, limestone - buff to light grey and yellow, medium hard, cryptograined to fine grained, slightly argillaceous in part, dense,
- 4100 - 4120 Shale - grey to dark grey and red to dark red and dark brown, medium hard, dolomitic in part; limestone - light grey to grey and orange brown and red, medium hard, cryptograined to fine grained, argillaceous in part, dense,
- 4120 - 4160 Limestone - buff to grey and pink to red and yellow to brown, medium hard, cryptograined, very slightly argillaceous in part, trace of slickenside, trace of calcite crystals; shale - grey, medium hard, dolomite; trace shale - red, soft,
- 4160 - 4170 Limestone (dolomitic in small part) - buff to grey, pink to red and yellow to brown, medium hard, cryptograined to micrograined, slightly argillaceous in part, trace of slickenside, trace of calcite crystals; shale - dark grey, medium hard, dolomitic, trace of shale - red and green, soft to hard, dolomitic in part,
- 4170 - 4180 Limestone (dolomitic in small part) - buff, yellow to brown and pink to dark red, medium hard, cryptograined to fine grained, slightly argillaceous in part, trace of calcite crystals; trace of shale - red and green, soft to medium hard, dolomitic in part,

- 4180 - 4190 Limestone (dolomitic in part) - buff to yellow and dark brown and red and light to dark grey, cryptograined, slightly argillaceous in part, trace of calcite crystals; trace of shale - green to grey green, calcareous in part, medium hard,
- 4190 - 4210 Shale - light grey to black, medium hard, calcareous in part; limestone - buff to yellow and brown and pink to red, cryptograined to fine grained, argillaceous in part, dense; trace of calcite crystals,
- 4210 - 4230 Limestone - light grey to brown and buff to yellow, medium hard, cryptograined to micrograined, argillaceous in part, dense, calcite crystals common, trace of pyrite,
- 4230 - 4240 Siltstone - grey, light grey and dark grey, medium hard, calcareous, finely pyritic; shale - light to dark grey, medium hard, calcareous in part; trace of calcite crystals,
- 4240 - 4260 Siltstone - grey and light grey, medium hard, calcareous, finely pyritic; sandstone - light grey, medium hard, quartzose, very fine grained, calcareous, trace of poor porosity (5%) fine intergranular in 2% of cuttings, no staining, no fluorescence, pyrite, trace of slickensides.
- 4260 - 4270 Siltstone - grey to dark red, medium hard, slightly calcareous, finely pyritic; sandstone - grey to dark red, very fine grained, well sorted, quartzose (subrounded grains) pyritic, trace of poor porosity in very fine vugs, no fluorescence
- 4270 - 4280 Siltstone - light grey to dark red, medium hard, calcareous, pyritic; sandstone - grey to dark red, very fine grained, good sorting, quartzose (subrounded grains), calcareous, trace of poor intergranular porosity, no fluorescence; shale - red, slightly dolomitic, medium hard; shale - grey green, medium hard, dolomitic,
- 4280 - 4287 Siltstone - light grey to maroon, medium hard, calcareous, pyritic; sandstone - grey to dark red, very fine grained, good sorting, quartzose (subrounded grains) calcareous, poor porosity (6%) as fine intergranular in (5%) of cuttings, no fluorescence; shale - red, slightly dolomitic, medium hard, shale - grey green, medium hard, dolomitic,

4313 - 4350	Siltstone - buff to grey and red, medium hard, dolomitic; shale - grey and red, medium hard, dolomitic, waxy in part, pyrite, trace of calcite crystals,
4350 - 4360	Siltstone - buff to red, medium hard, dolomitic; sandstone - light grey and buff, soft to medium hard, very fine grained, sorted, quartzose (subrounded grains), dolomitic, poor porosity (5%) in 2% of sample; shale - red and green, medium hard, dolomitic in part, waxy in part,
4360 - 4370	Siltstone - buff to maroon, medium hard, dolomitic; shale - red and green, medium hard, dolomitic in part, waxy in part,
4370 - 4390	Siltstone - buff to maroon, medium hard, dolomitic; shale - red and green, medium hard, dolomitic in part, waxy in part, calcite crystals, pyrite; trace of dolomite - brown, medium hard, medium crystalline, slightly argillaceous, dense,
4390 - 4413	Siltstone - buff to maroon, medium hard, dolomite; shale - red and green, medium hard, dolomitic in part, trace of calcite crystals,
Total Depth	4413' (Drl)

DRILL STEM TEST REPORT

Company Canadian Delhi Oil Ltd. Drill Stem Test No. 1

Name of Well Candel DECKMG et al Police Island L-66 Date Test Run March 19, 1971

Testing Company BJ Services Ltd. Operator Paul Seemann

Type Packer 2 Hobtail Size Packer(s) 7" Choke 1/2"

Interval Tested: 2270 to 2345 Formation: Cretaceous Upper Sand

Test Data:

Initial shut in: Time Packer set 6:30 A.M. Time Tool Opened 7:00 A.M. (elapsed) 28 mins.
 Flow Period: Time Tool Opened 7:00 A.M. Time Tool Closed 7:40 A.M. (elapsed) 42 mins.
 Final shut in: Time Tool Closed 7:40 A.M. Time Tool Pulled 8:20 A.M. (elapsed) 41 mins.
 Initial Flow (Prewell) Time Tool Opened 6:25 A.M. Closed 7:30 PM (elapsed) 5 mins.
 Tight Hole Test: Yes No X Size of Chamber

Water Cushion: None Type of Hole (Rathole) (Fullhole) (Cased)

T.D. Driller: 2345 T.D. Tester: 2345 Was Test A Misrun: No

Cause of Misrun:

Flow Data:

Description of Initial Blow: Good Initial Blow

Did Blow die or Decrease: Strong air blow throughout

Gas Flow To Surface In mins. Initial Gas Flow MCF/Day

Stabilized Gas Flow MCF/Day Measured by: (Test) (Impact) (Side Static)

Time For Gas Flow to Stabilize mins. Gas Description: (Sweet) (Sour) (Dry) (Wet)

Gas Sample Saved After mins. Fluid To Surface In NA mins.

Fluid Description:

Nature of Flow:

Remarks:

Recovery: Drill collars 415' of 2 1/4" ID
4 1/2" 1050

Total fluid in (size) OD drill pipe: feet barrels

(describe fluid) Oil: feet barrels

 Fresh Water: 1050 feet barrels

 Mud: feet barrels

Saved Samples At: 355 ft. 116 ft. 819 ft. above the test tool

Weight of mud before test 9.2 lbs./gal.: Chloride content ppm

Weight of mud recovered lbs./gal.: Chloride content ppm

Weight of water recovered lbs./gal.: Chloride content Fresh (too small to read) ppm

Oil Recovered: *API Color Smell

Pressure Data:

Initial Hydrostatic: (Office) 1101 (Field) 1130 Final: (Office) 1039 (Field) 1120
949 960 Final: 925 930

Initial Shut In Pressure 210 Final: 491 490

Initial Flow Pressure 247 Final: 491

Well Bore Temp: 60 °F Bomb Capacity: Top 5800# Bottom 5500#

Engineer D. Nelson

DRILL STEM TEST REPORT

Company Canadian Delhi Oil Ltd. Drill Stem Test No. 2
 Name of Well Candel DECKMG et al Police Island L-66 Date Test Run March 21, 1971
 Testing Company BJ Services Ltd. Operator Paul Seeman
 Type Packer 2 Bobtails Size Packer(s) 7" Choke 1/2"
 Interval Tested: 2960 to 2985 Formation: Cretaceous

Test Data:

Initial shut in: Time Packer set 7:38 P.M. Time Tool Opened 8:08 P.M. (elapsed) 30 mins.
 Flow Period: Time Tool Opened 8:08 P.M. Time Tool Closed 8:38 P.M. (elapsed) 30 mins.
 Final shut in: Time Tool Closed 8:38 P.M. Time Tool Pulled 9:08 P.M. (elapsed) 33 mins.
 Preflow Opened 7:33 P.M. Closed 7:38 P.M. (elapsed) 5 mins.
 Tight Hole Test: Yes No X Size of Chamber

Water Cushion: NA Type of Hole: (Rathole) (Fullhole) (Cased)
 T.D. Driller: 2985 T.D. Tester: 2985 Was Test A Misrun: No

Cause of Misrun:

Flow Data:

Description of Initial Blc Strong air blow on preflow
 Did Blow die or Decrease: Strong air blow throughout decreasing slight toward end
 Gas Flow To Surface In NA mins. Initial Gas Flow MCF/Day

Stabilized Gas Flow MCF/Day Measured by: (Test) (Impact) (Side Static)
 Time For Gas Flow to Stabilize mins. Gas Description: (Sweet) (Sour) (Dry) (Wet)
 Gas Sample Saved After mins. Fluid To Surface In mins.

Fluid Description:

Nature of Flow:

Remarks:

Recovery: 472' of 2 7/8 ID drill collars
 Total fluid in (size) 4 1/2" OD drill pipe: 2610 feet barrels
 (describe fluid) Oil: feet barrels
 salt Water: 2610 feet barrels
 Mud: feet barrels
 Saved Samples At: Immediately above tool 660 ft. 1218 ft. 1775' 2238'
ft. above the test tool

Weight of mud before test 9.2 lbs./gal.: Chloride content ppm
 Weight of mud recovered lbs./gal.: Chloride content ppm
 Weight of water recovered lbs./gal.: Chloride content 32400 ppm
 Oil Recovered: API Color Smell

Pressure Data:

Initial Hydrostatic: (Office) 1461 (Field) 1460 Final: (Office) 1451 (Field) 1450
 Initial Shut In Pressure 1248 1250 Final: 1247 1250
 Initial Flow Pressure 1057 1050 Final: 1220 1210
 Well Bore Temp: °F Bomb Capacity: Top 5800# Bottom 5500#

Engineer: D. Nelson

DRILL STEM TEST REPORT

Company Canadian Delhi Oil Ltd. Drill Stem Test No. 3

Name of Well Candel DECKMG et al Police Island L-66 Date Test Run March 24, 1971

Testing Company BJ Services Ltd. Operator Budverson

Type Packer 2 Bobtails Size Packer(s) 7" Choke 1/2"

Interval Tested: 3317 to 3392 Formation: Ronning

Test Data:

Initial shut in: Time Packer set 6:15 A.M. Time Tool Opened 6:45 A.M. (elapsed) 29 mins.
 Flow Period: Time Tool Opened 6:45 A.M. Time Tool Closed 7:30 A.M. (elapsed) 54 mins.
 Final shut in: Time Tool Closed 7:30 A.M. Time Tool Pulled 8:15 A.M. (elapsed) 43 mins.
 Preflow " Opened 6:05 A.M. Closed 6:15 A.M. (elapsed) 10 mins.
 Tight Hole Test: Yes No X Size of Chamber

Water Cushion: NA Type of Hole: (Rathole) (Fullhole) (Cased)

T.D. Driller: 3392 T.D. Tester: 3387 Was Test A Misrun: No

Cause of Misrun:

Flow Data:

Description of Initial Blow: Weak air blow

Did Blow die or Decrease: Died after 10 mins.

Gas Flow To Surface In mins. Initial Gas Flow MCF/Day

Stabilized Gas Flow MCF/Day Measured by: (Test) (Impact) (Side Static)

Time For Gas Flow to Stabilize mins. Gas Description: (Sweet) (Sour) (Dry) (Wet)

Gas Sample Saved After mins. Fluid To Surface In mins.

Fluid Description:

Nature of Flow:

Remarks:

Recovery:

Total fluid in (size) 2 5/8" drill collar (ID) 90 feet barrels
 (describe fluid) Oil: feet barrels
 Water: feet barrels
 Mud: 90 feet barrels

Saved Samples At: ft. ft. ft. above the test tool

Weight of mud before test 9.2 lbs./gal.: Chloride content too small to measure ppm

Weight of mud recovered 9.0 lbs./gal.: Chloride content too small to measure ppm

Weight of water recovered lbs./gal.: Chloride content ppm

Oil Recovered: *API Color Smell

Pressure Data:

Initial Hydrostatic: (Office) 1557 (Field) 1550 Final: (Office) 1557 (Field) 1550

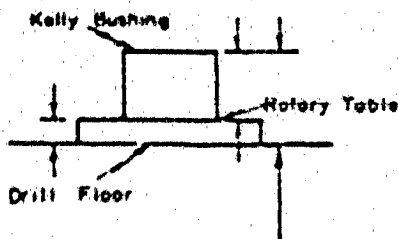
Initial Shut In Pressure 893 Final: 557 550

Initial Flow Pressure 47 Final: 50 50

Well Bore Temp: 126 *F Bomb Capacity: Top 3600 Bottom 5500

Engineer: D. Nelson

CASING TALLY



SURFACE ☒ INTERMEDIATE ☐ PRODUCTION ☐
 SIZE 8 5/8" RANGE 2 NO. JOINTS 18
 TYPE Marathon WEIGHT 24 LANDING DEPTH 665
 GRADE J-55 THREAD 8rd DEPTH BELOW K.B.

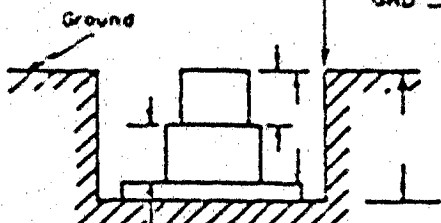
TOTALS
 TOTAL JOINTS USED 18 LENGTH
 TOTAL JOINTS LEFT LENGTH
 GRAND TOTAL

ELEVATIONS

K.B. 486
 D.F. 473
 GRD

REMARKS

CEMENTING 425 plus 12 sacks to annulus Portland
 NO. OF SACKS 2 TYPE CEMENT
 % CACL₂ HOURS TO SET
 % GEL LENGTH CEMENT COLUMN
 AVERAGE WEIGHT OF SLURRY



CEMENTING COMPANY BJ Services DATE March 14, 1971
 TYPE SHOE TYPE COLLAR
 LENGTH LENGTH
 CENTRALIZERS
 SCRATCHERS

NO	LENGTH	NO	LENGTH	NO	LENGTH	NO	LENGTH	NO	LENGTH	NO	LENGTH	NO	LENGTH
1		11		21		31		41		51		61	
2		12	Casing	22	Collar lost	32	In transit	42		52		62	
3		13		23		33		43		53		63	
4		14		24		34		44		54		64	
5		15		25		35		45		55		65	
6		16		26		36		46		56		66	
7		17		27		37		47		57		67	
8		18		28		38		48		58		68	
9		19		29		39		49		59		69	
10		20		30		40		50		60		70	
81		91		101		111		121		131		141	
82		92		102		112		122		132		142	
83		93		103		113		123		133		143	
84		94		104		114		124		134		144	
85		95		105		115		125		135		145	
86		96		106		116		126		136		146	
87		97		107		117		127		137		147	
88		98		108		118		128		138		148	
89		99		109		119		129		139		149	
90		100		110		120		130		140		150	

BIT RECORD

Well,

Candel DECKING et al Police Island L-66

Drilling Contractor

Jennings International Drilling

Date Drilling Started March 12, 1971

Date Completed April 2, 1971

[illegible]

DAILY MUD RECORD

Date	Depth	Weight	Viscosity	Water Loss	Filter Cake	Ph.	Remarks and Additives			
		# / Gal.	Seconds	15 min. C.C.	32nds		Super Col	Caustic	Gel	DV-68 Peltex
Mar. 12/71	0									
Tour 1	0									
2	0									
3	135	8.7	42				2000#	200#		
Mar. 13/71										
Tour 1	313	8.7	38				900#			
2	525	8.7	37							
3	628	8.7	30							
Mar. 14/71										
Tour 1	628	8.7	32				500#			
2	665	8.8	40				800#			
3	665									
Mar. 15/71										
Tour 1							Running surface casing			
2										
3										
Mar. 16/71										
Tour 1	910	8.5	30				700#		1000#	2 gals.
2	1310	8.6	28					100#	2000#	2 gals.
3	1515	9.0	40	11.2	2	10.5			3600#	1 gal.
Mar. 17/71										
Tour 1	1705	9.1	50	11.2	2	10.0			1600#	2 gals.
2	1804	9.1	52	12.6	2	10.5		100#	2000#	2 gals.
3	1936	9.3	38							
Mar. 18/71										
Tour 1	2094	9.4	45	12.0	2	10.5	250#		2000#	2 gals.
2	2234	9.3	38	7.1	2	10.5		100#		200#
3	2345	9.4	32	9.2	2	10.5				
Mar. 19/71										
Tour 1	2345	9.2	50			10.0			4000#	2 gals.
2	2376	9.2	45			10.0				
3	2506	9.2	30	8.3	2	10.0				
Mar. 20/71										
Tour 1	2630	9.2	30			10.0				
2	2728	9.3	30	14.6	2	10.5	200#	1000#		400#
3	2784	9.2	35	12.6	2	10.5		1800#		

DAILY MUD RECORD

Date	Depth	Weight	Viscosity	Water Loss	Filter Cake	Ph.	Remarks and Additives				
		# / Gal	Seconds	15 min. CC	32nds		Super Col	Caustic	Gel	DV-68	Peltex
Mar. 21/71											
Tour 1	2910	9.3	36		2	11.0		200#	1500#		200#
2	2985	9.3	55	9.2	2	11.0			3000#	3 gals.	
3	2985										
Mar. 22/71											
Tour 1	3122	9.4	50	9.1	2	11.0					
2	3165	9.4	44	7.9	2	11.0		100#			200#
3	3206	9.5	38	7.5	2	11.5					
Mar. 23/71											
Tour 1	3265	9.4	31	10.8	2	10.5					
2	3330	9.2	32	10.8	2	10.5		50#	3000#		100#
3	3392	9.2	34	9.4	2	10.5			2500#		
Mar. 24/71											
Tour 1	3392	9.2	62						3000#	3 gals.	
2	3408	9.1	65	7.4	2	10.5					
3	3469	8.9	34	7.6	2	10.5		100#	1000#		200#
Mar. 25/71											
Tour 1	3490	8.9	35	8.4	2	10.5			1500#	1 gal.	
2	3551	9.0	44	8.2	2	10.5			3500#	2 gals.	
3	3605	9.0	37	9.6	2	10.5		50#			100#
Mar. 26/71											
Tour 1	357	9.1	43	9.6	2	10.5			2000#	2 gals.	
2	3689	9.0	41	8.9	2	10.5					
3	3699	9.0	43	9.0	2	10.5					
Mar. 27/71											
Tour 1	3720	9.1	40	8.8	2	10.5					
2	3742	9.1	45	8.6	2	10.5		100#	1500#	1 gal.	200#
3	3769	9.1	42	8.8	2	10.5		50#	1500#	1 gal.	100#
Mar. 28/71											
Tour 1	3793	9.1	45	8.9	2	10.5					
2	3832	9.1	41	7	2	10.5		100#	2000#	2 gals.	200#
3	3863	9.1	38	7.4	2	10.5			2000#	2 gals.	
Mar. 29/71											
Tour 1	3911	9.1	47	8.8	2	10.5					
2	3954	9.1	44	8.8	2	10.5		50#	1000#	1 gal.	100#
3	4004	9.1	40	8.0	2	10.0					
Mar. 30/71											
Tour 1	4068	9.1	41	8.2	2	10.5		100#	3000#	3 gals.	200#
2	4109	9.0	38	8.8	2	10.0					
3	4152	9.0	46	8.6	2	10.5		100#	3000#	3 gals.	200#

DAILY MUD RECORD

Date	Depth	Weight	Viscosity	Water Loss	Filter Cake	Ph.	Remarks and Additives				
		# / Gal.	Seconds	15 min. CC	32nds		Super Col	Caustic	Gel	DV-68	Peltex
Mar. 31/71											
Tour 1	4194	9.1	41	7.9	2	10.5					
2	4241	9.1	45	8.8	2	10.5		100#	1800#		
3	4288	9.0	61	9.2	2	10.5			2500#		
April 1/71											
Tour 1	4296	9.1	60	9.2	2	10.5			1000#		
2	4313										
3	4313	9.1	61	9.2	2	10.5					
April 2/71											
Tour 1	4363	9.1	64	8.0	2	10.5			1500#		
2	4402	9.3	65	7.4	2	10.0					
3	4413	9.2	92	7.6		8.5			1000#		
April 3/71											
Tour 1	4413										
2	4413	9.2	65			8.5					
3	4413										
April 4/71											
Tour 1	4413	9.2	48								
2	4413	9.3	45								
3	4413							Plugging			

DAILY PROGRESS REPORT

Candel DECKING et al Police Island L-66

DATE	DEPTH		Bottom	Hours on Bottom	BIT NOS	DEVIATION SURVEY		REMARKS
	From	To				Depth	RDG	
Mar. 12/71	0	135	135	5	1A	66 125	1/4 1/4	Drilled 135' with 7 7/8" rock bit, spudded at 6:30 P.M. and ran 2 surveys; Surveying
Mar. 13/71	135	628	493 103R	17 1/4 1 3/4	1A 2A	183 243 303 362 420 478 541 604	1/2 1/2 1/2 1/4 1/4 3/4 1/8 1/2	Drilled 493' with 7 7/8" rock bit, ran 8 surveys, tripped for Bit #2A, strapped out, reamed 103' with 12 1/4" reamer, Reaming
Mar. 14/71	628	665	37 525	3/4 101/4	3A 2A			Drilled 37' with 12 1/4" rock bit, reamed 525' with 12 1/4" ream. Tripped for Bit #3A, Ran 18 jts., 8 5/8", 24#, J-55, 669' Mannesman casing, landed at 665' K.B. and cemented with 425 sacks of Portland plus 2 1/2 CaCl ₂ . Plug down at 9:00 P.M. Waiting on cement.
Mar. 15/71	665	665						Waited on cement, nipped up 80Ps, cut casing and welded on bowl, finish nipping up, leveled rig, repair clutch, pressure tested rams, pick up collars - prepared to run in.
Mar. 16/71	665	1515	850	18 1/2	1	862 900 1114 1178 1365 1458	1/4 1 3/4 1/2 1/2 1/2	Drilled 850' with 7 7/8" rock bit, Tripped in to hole, pressure tested rams & hydril, drilled out plug, ran 6 surveys. Drilling.

DAILY PROGRESS REPORT

DATE	DEPTH		Shot log ft.	Hours on Bottom	BIT NOS	DEVIATION SURVEY		REMARKS
	From	To				Depth	R D G	
Mar. 17/71	1515	1536	421	17	1 & 2	1552 1647 1743 1770 1832	3 3/4 4 1/4 4 1/4 4 3/4 4	Drilled 421' with 7 7/8" rock bit, Tripped for Bit #2, cut and slipped line, ran 5 surveys. Drilling.
Mar. 18/71	1936	2345	409	21	2	1926 2020 2095 2190 2304	4 3/4 4 3/4 4 3/4 5 5	Drilled 409' with 7 7/8" rock bit, ran 5 surveys and circulated sample. Conditioning mud.
Mar. 19/71	2345	2506	161	9 1/2	3	2408	4 3/4	Drilled 161' with 7 7/8" rock bit, ran DST #1, ran 1 survey. Drilling.
Mar. 20/71	2506	2784	278	20 1/2	3	2501 2595 2691	5 5 5	Drilled 278' with 7 7/8" rock bit, ran 3 surveys, started trip for Bit #4. Tripping
Mar. 21/71	2789	1985	196	10 1/2	4	2784 2880 2955	4 3/4 4 1/4 4 1/4	Drilled 196' with 7 7/8" rock bit, ran 3 surveys and completed trip for Bit #4, ran DST #2. Breaking down test tool.
Mar. 22/71	2985	3206	221	18 1/2	4 & 5	3067 3135	4 1/4 4 1/2	Drilled 221' with 7 7/8" rock bit, ran 2 surveys, ran in with bit, tripped Bit #5. Drilling.

DAILY PROGRESS REPORT

DATE	DEPTH		Hours	BIT NOS	DEVIATION SURVEY		REMARKS
	From	To			Depth	RDG	
Mar. 23/71	3206	3472	18 1/2	5	3226 3339	1 1/2 3 3/4	Drilled 186' with 7 7/8" rock bit, ran 2 surveys, conditioned mud in preparation for testing. Conditioning mud.
Mar. 24/71	3392	3465	7 1/2	6			Drilled 77' with 7 7/8" rock bit, ran DST #3. Drilling.
Mar. 25/71	3469	3605	13 3/4	6	3442 3523 3556	5 1/2 7 7	Drilled 136' with 7 7/8" rock bit, ran 3 surveys and tripped to unplug bit. Drilling.
Mar. 26/71	3605	3699	9 1/2	6 & 7	3598 3651 3679	9 9 1/4 10	Drilled 94' with 7 7/8" rock bit, ran 3 surveys and tripped to raise stabilizer, Drilling.
Mar. 27/71	3699	3769	70 22 1/4	7	3712 3744	9 1/2	Drilled 70' with 7 7/8" rock bit and ran 2 surveys. Drilling.
Mar. 28/71	3769	3863	94 10 3/4	7 & 6	3750 3806 3837	9 1/2 9 1/2 10 1/4	Drilled 94' with 7 7/8" rock bit, Tripped for Bit #6 and ran 3 surveys. Drilling.
Mar. 29/71	3863	4004	141 22 1/2	6	3901 3963	10 1/2 10 3/4	Drilled 141' with 7 7/8" rock bit, ran 2 surveys. Drilling.

DAILY PROGRESS REPORT

DATE	DEPTH		Feet Solid	Hours on Bottom	BIT NOS	DEVIATION SURVEY		REMARKS
	From	To				Depth	RDG	
Mar. 30/71	4004	4152	148	22 3/4	6	4058	13 3/4	Drilled 148' with 7 7/8" rock bit, ran 1 survey. Drilling.
Mar. 31/71	4152	4287	136	16 1/4	6	4152 4246 4277 4242	14 1/2 14 1/2 15 15	Drilled 136' with 7 7/8" rock bit, ran 4 surveys and conditioned mud and started trip for core barrel. Tripping.
April 1/71	4287	4313	26	2 1/2	8 & 6			Cored 26' with 6 11/16" diamond core head and reamed rathole with 7 7/8" rock bit, recovered Core #1. Reaming.
April 2/71	4313	4413	100	18	6	4309	15	Drilled 100' with 7 7/8" rock bit, ran 1 survey, conditioned mud and made dummy trip, tripped out for logging. Tripping.
April 3/71	4413	4413						Logged hole, ran in drill collars and laid down same, ran in open ended and circulated. Circulating.
April 4/71	4413	4413						Circulated and waited on orders, ran Plugs #1 & 2. Waiting on cement.
April 5/71								Finished running plugs and started to tear out BOP's, Rig released at 11:59 P.M.

ABANDONMENT PLUGS

- Plug #1 Ran on April 4, 1971
Interval 4414 - 4314
44 sacks cement
- Plug #2 Ran on April 4, 1971
Interval 3145 - 3045
62 sacks cement plus 2% CaCl_2 .
Felt at 3032.
- Plug #3 Ran on April 5, 1971
Interval 2430 - 2220.
196 sacks cement plus 2% CaCl_2 .
Felt at 2147
- Plug #4 Ran on April 5, 1971
Interval 715 - 615
50 sacks cement plus 2% CaCl_2
Felt at 600.
- Plug #5 Ran on April 5, 1971
At surface casing
5 sacks cement
Plate weld over surface casing and
sign welded to plate

Logs

Ran by Schlumberger of Canada on April 3, 1971.

Dual Induction Laterolog	4411 - 667
Bottom hole Compensated Sonic	4414 - 667
Sidewall Neutron Porosity	4414 - 667
Formation Density Log	4414 - 667

Analysis

Gas Analysis:

NIL

Oil Analysis:

NIL

Water Analysis:

Lab No. 933-1380

Lab. No. 921-1280

WATER ANALYSES

FOR

CANADIAN DELHI OIL LTD.

**CANDEL DECKMG ET AL POLICE ISLAND L-66
WILDCAT
N. W. T.**

CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA



CORE LABORATORIES - CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS



File 933-1380 Page 1 of 2

Company Canadian Delhi Oil Ltd.

Well Candel Deckmg et al Police Island L-66 K.B. Grd. 473'
64 45'38.00 N.L.

Location 125 12'57.00 W.L. Field Wildcat Province N.W.T.

Formation Cretaceous Interval 2345' - 2271'

Sampled from DST #1 (Right Above Tool) by

Date sampled Mar. 19/71 Date analysed Mar. 29/71 Analyst LK

Recovery 1050' Water

 Mud type Water cushion

Resistivity 1.27 Ohm-meters @ 73 of Total Solids:

Specific gravity 1.0002 @ 60°F Calculated 5,203 mg/liter

pH 8.2 H₂S Absent By evaporation @ 110°C mg/liter

Refractive Index 1.333 @ 73°F By evaporation @ 180°C mg/liter

 At ignition mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
1824	14	8	Trace	-	-	-	2175	1176	6	Nil	Nil

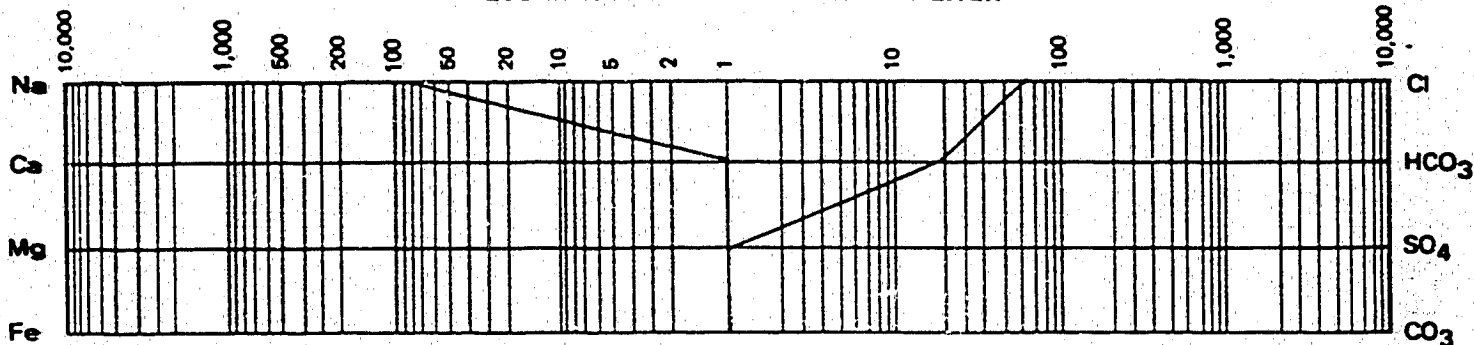
PER CENT CALCULATED SOLIDS

35.1	.3	.2	Trace	-	-	-	41.8	22.6	.1	.0	.0
------	----	----	-------	---	---	---	------	------	----	----	----

MEQ PER LITER

79.3	.7	.7	Trace	-	-	-	61.3	19.3	.1	.0	.0
------	----	----	-------	---	---	---	------	------	----	----	----

LOGARITHMIC PATTERN MEQ PER LITER





CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
WATER ANALYSIS



File 933-1380 Page 2 of 2

Company Canadian Delhi Oil Ltd.
Well Candel Decking et al Police Island L-66 K.B. 64 45' 38.00 N.L. Grd. 473'
Location 125 12' 57.00 W.L. Field Wildcat Province Alberta
Formation Cretaceous Interval 2985' - 2960'
Sampled from DST #2 (Above Tool) by
Date sampled Mar. 21/71 Date analysed Mar. 29/71 Analyst LK
Recovery 2610' Water
Mud type Water cushion

Resistivity 0.175 Ohm-meters @ 71 °F

Specific gravity 1.0 @ 60°F

pH 7.2 H₂S Absent

Refractive Index 1.340 @ 71°F

Total Solids:

Calculated 40,212 mg/liter

By evaporation @ 110°C - mg/liter

By evaporation @ 180°C - mg/liter

At ignition - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO ₃	SO ₄	CO ₃	OH
13989	1094	258	Trace	Abs.	-	-	22676	259	1936	Nil	Nil

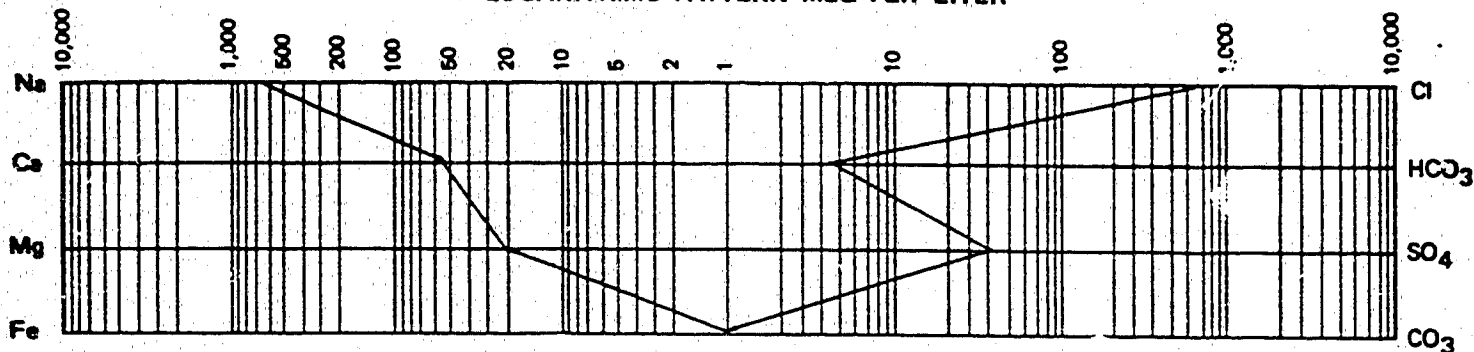
PER CENT CALCULATED SOLIDS

34.8	2.7	.6	Trace	Abs.	-	-	56.4	.6	4.8	.0	.0
------	-----	----	-------	------	---	---	------	----	-----	----	----

MEQ PER LITER

608.2	54.6	21.2	Trace	Abs.	-	-	639.5	4.2	40.3	.0	.0
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LOGARITHMIC PATTERN MEQ PER LITER



39258. 13989.0

CHEMICAL ANALYSIS

FOR

CANADIAN DELHI OIL LTD.

**CANDEL DECKING ET AL POLICE ISLAND L-66
WILDCAT
N. W. T.**

CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA



CORE LABORATORIES - CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Canadian Delhi Oil Ltd. Page 1 of 1
Well Candel Decking et al Police Island L-66 File 921-1280
Field Wildcat, N.W.T. Analyst WB
64 45'38.00 N.L.
Location 125 12'57.00 W.L. Elevation: K.B. Grd. 473'
Formation Cretaceous Depth 2945' - 2960'
Sampled from DST #1 (Above Tool) by
Sampling pressure psig Sampling temp. °F Ambient temp. °F
Date sampled Mar. 21/71 Date received Mar. 30/71 Date analyzed Apr. 6/71
Container pressure Mud Water cushion
Recovery or flowrate: 2610' Water

Benzene Determination

Benzene = Less than 0.1 ppm V/V

Remarks: If benzene was present in the sample, it would have been absorbed by the plastic bottle (due to the length of time between sampling and analysis).

Well Name CANDEL DECKING ET AL POLICE ISLAND

Test No. 1

Well Number L-66

Zone Tested CRETACEOUS

Company CANADIAN DELHI OIL LIMITED

Interval 2270 - 2345

Comp. Rep. DAVE NELSON

Tester P. SEEMANN

Date MARCH 19, 1971

BJ SERVICE DIVI
BORG-WARNER (CANADA)



DRILL-STEM TEST DATA

Well Name **CANDEL DECKING ET AL POLICE ISLAND** Test No **1**
Well Number **L-66** Zone Tested **CRETACEOUS**
Company **CANADIAN DELHI OIL LIMITED** Interval **2270 - 2345**
Company Rep **DAVE NELSON** Tester **P. SEEMANN** Date **MARCH 19, 1971**
Type of Test **DUAL BOTTOM HOLE** KTS Test No **26 (DRAINED)**

Pressure 3 min. PSI 28 min. PSI 42 min. PSI 49 min. PSI

	I SEC. No. 2012	0 SEC. No. 2011		
	5800 RANGE	12 HR. CLOCK	5500 RANGE	12 HR. CLOCK
DEPTH	2253	2277		
Initial Hydro. Mud Press	1101	1108		
Initial Shut-In Press	949	948		
Initial Flow Press	247	222		
Final Flow Press	491	482		
Final Shut-In Press	925	929		
Final Hydro. Mud Press	1099	1107		

Mud Drop **NIL** Mud Weight **9.2**
Viscosity **50** Temperature **60** Net Pay Tested **28**
Top Packer Depth **2265** Bottom Packer Depth **2270** Total Depth **2345**
Drill Pipe Size **4.5 X.H.** Wt **16.6** Drill Collar I.D. **2.875** Fr. Run **412.85**
Surface Choke Size **ADJ** Bottom Choke Size **0.5** Main Hole Size **7.875**
Anchor Size **4.75 (2-0.25 DC)** Foot of Rat Hole
Cushion Amount Type Rubber Size **7.0**

Fluid Recovery Total Feet **1050**
Recovered **1050** Feet of **FRESH WATER**
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Gas Recovery	How Measured	Riser size
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	psi Orifice Size = MCF/Day

Bleed Off Time for Drill Pipe

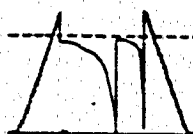
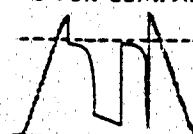
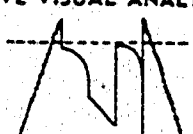
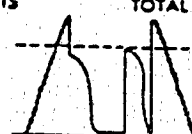
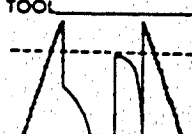
REMARKS: **G.I.B. STRONG AIR BLOW THROUGHOUT TEST.**



TESTING REPORT

	45 LANDING SUB		
	45 CHAMBER		
	RECORDING SUB	1.00	
	CO SUB	1.00	
	SHUT IN TOOL	5.10	
	R.F.S. No. 26	3.30	
	R.F.S. No.		
	HYDRAULIC TOOL	7.20	
	JARS	6.30	
	RECORDER No. 2012	5.00	DEPTH 2253
	RECORDER No.		DEPTH
	SAFETY JOINT	1.70	
	BY PASS SUB		
	1. PACKER DEPTH 2265	PACKER	6.00
	2. PACKER DEPTH 2270	PACKER	5.00
	ANCHOR—SPECIFY	1.00	
	PERF	5.00	
	BLANK OFF OR BY PASS SUB		
	RECORDER No. 2011	5.00 DEPTH 2277	
	PACKER		
3. PACKER DEPTH		TOTAL INTERVAL 74.81	
4. PACKER DEPTH	PACKER		
	ANCHOR—SPECIFY		
	RECORDER No.	DEPTH	
	C. O. SUB	1.00	
	D. C. (2)	60.51	
	C. O. SUB	1.00	
TOTAL DEPTH 2345	BULLNOSE	1.30	
		TOTAL TAIL PIPE 74.81	
		TOTAL TEST TOOL	

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS

HIGH PERMEABILITY
STRONG DAMAGE EFFECTHIGH PERMEABILITY
NO DAMAGE EFFECTMEDIUM PERMEABILITY
STRONG DAMAGE EFFECTMEDIUM PERMEABILITY
NO DAMAGE EFFECTLOW PERMEABILITY
STRONG DAMAGE EFFECTLOW PERMEABILITY
NO DAMAGE EFFECT



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

MEASURED PRESSURES

	POINT NUMBER	TIME MIN	PRESSURE PSIG
RUN IN HOLE	1	0.0	0.0
	2	71.0	1100.8
INITIAL HYDRO PRESSURE	3	113.0	1100.8
INITIAL PREFLOW PRESSURE	4	113.0	168.0
	5	114.0	175.4
FINAL PREFLOW PRESSURE	6	116.0	208.1
START INITIAL SHUT IN	7	116.0	208.1
	8	119.0	878.9
	9	121.0	905.0
	10	126.0	928.3
	11	131.0	938.4
	12	136.0	942.8
	13	141.0	945.7
	INITIAL SHUT IN PRESSURE	14	144.0
START FLOW PERIOD	15	144.0	948.6
INITIAL FLOW PRESSURE	16	146.0	246.7
	17	149.0	258.6
	18	154.0	292.8
	19	159.0	328.5
	20	164.0	364.2
	21	169.0	396.9
	22	174.0	428.1
	23	179.0	462.3
	FINAL FLOW PRESSURE	24	186.0
START FINAL SHUT IN	25	186.0	490.5
	26	189.0	825.1
	27	191.0	854.1
	28	196.0	883.2
	29	201.0	897.7
	30	206.0	906.5
	31	211.0	912.3
	32	216.0	918.1
	33	221.0	922.5



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

MEASURED PRESSURES

	<u>POINT NUMBER</u>	<u>TIME MIN</u>	<u>PRESSURE PSIG</u>
FINAL SHUT IN PRESSURE	34	227.0	925.4
RUN OUT OF HOLE	35	227.0	925.4
FINAL HYDRO PRESSURE	36	228.0	1099.4
	37	236.0	1099.4
OUT OF HOLE	38	374.0	0.0



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

CALCULATIONS FOR LIQUID RECOVERY (FIRST SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	962.7
NO. OF POINTS CONSIDERED IN BUILD-UP	7
NO. OF POINTS USED IN EXTRAPOLATION	4
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI).....	0.45
EFFECTIVE PRODUCING TIME (MIN)	3.0



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

DATA FOR BUILD-UP PLOT (FIRST SHUT-IN)

POINT NUMBER	TIME MIN	PRESSURE PSIG	PRESSURE CALC FROM BEST FIT LINE	PRESSURE DIFFERENCE CALC - OBSERVED	T+DELTA(T)/ DELTA(T)
-----------------	-------------	------------------	---	--	-------------------------

PORTION OF BUILD-UP CURVE NOT USED IN EXTRAPOLATION

8	3.0	878.9			2.00
9	5.0	905.0			1.60
10	10.0	928.3			1.30

POINTS USED IN EXTRAPOLATION

11	15.0	938.4	936.3	-2.1	1.20
12	20.0	942.8	942.5	-0.3	1.15
13	25.0	945.7	946.3	0.6	1.12
14	28.0	948.6	948.0	-0.6	1.11



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

CALCULATIONS FOR LIQUID RECOVERY (SECOND SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	960.1
NO. OF POINTS CONSIDERED IN BUILD-UP	9
NO. OF POINTS USED IN EXTRAPOLATION	6
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI)	0.11
EFFECTIVE PRODUCING TIME (MIN)	45.0
(B) IN SITU CAPACITY (KH - MD FT)	694.72
SLOPE OF BUILD-UP CURVE (PSI/CYCLE)	106.74
PRODUCING RATE (BBL/DAY)	396.80
FLUID VISCOSITY (CP)	1.150
FORMATION VOLUME FACTOR (RES BBL/ST BBL)	1.000
(C) EFFECTIVE PERMEABILITY (MD)	24.81
FORMATION THICKNESS	28.00
(D) PRODUCTIVITY INDEX (BBL/DAY/PSI)	0.85
FLOWING PRESSURE (PSIG)	490.5
(E) APPROXIMATE DRAINAGE RADIUS (FT)	112.5
TOTAL FLOWING TIME (MIN)	45.0
(F) ESTIMATED DAMAGE RATIO	0.87
RESERVOIR POROSITY (PERCENT)	20.00
TOTAL COMPRESSIBILITY (VOL/VOL/PSI X 10 ⁻⁶)	6.70
WELL-BORE RADIUS (IN)	3.94
CALCULATED SKIN FACTOR	-0.49



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

DST. NO. 1

LOCATION L-66

REC. NO.

2012

DEPTH 2253.

DATA FOR BUILD-UP PLOT (SECOND SHUT-IN)

POINT NUMBER	TIME MIN	PRESSURE PSIG	PRESSURE CALC FROM BEST FIT LINE	PRESSURE DIFFERENCE CALC - OBSERVED	T+DELTA(T)/ DELTA(T)
-----------------	-------------	------------------	---	--	-------------------------

PORTION OF BUILD-UP CURVE NOT USED IN EXTRAPOLATION

26	3.0	825.1			16.00
27	5.0	854.1			10.00
28	10.0	883.2			5.50

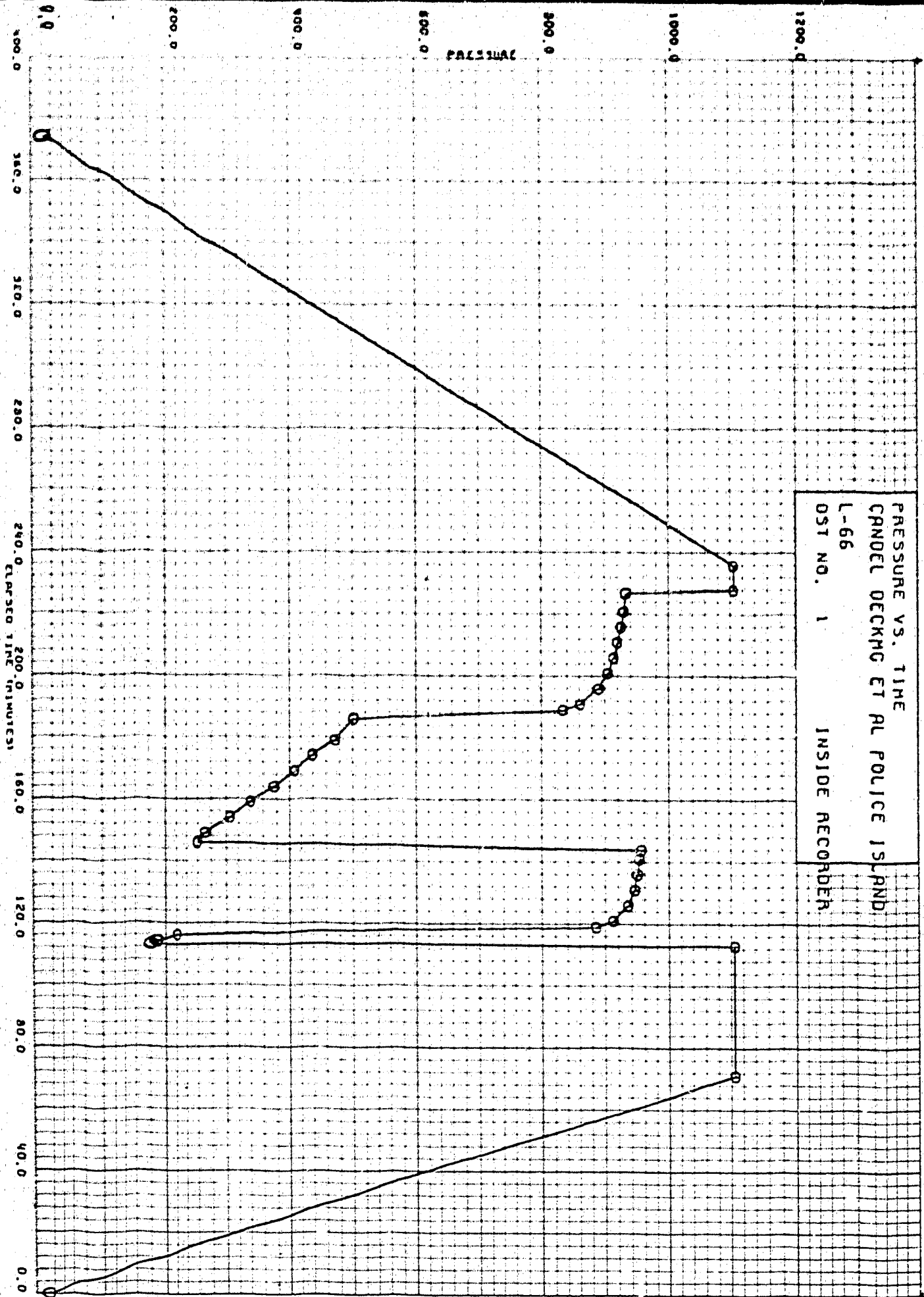
POINTS USED IN EXTRAPOLATION

29	15.0	897.7	895.8	-1.9	4.00
30	20.0	906.5	905.5	-1.0	3.25
31	25.0	912.3	912.4	0.1	2.80
32	30.0	918.1	917.6	-0.5	2.50
33	35.0	922.5	921.8	-0.7	2.29
34	41.0	925.4	925.8	0.4	2.10

ASSUMPTIONS AND LIMITATIONS

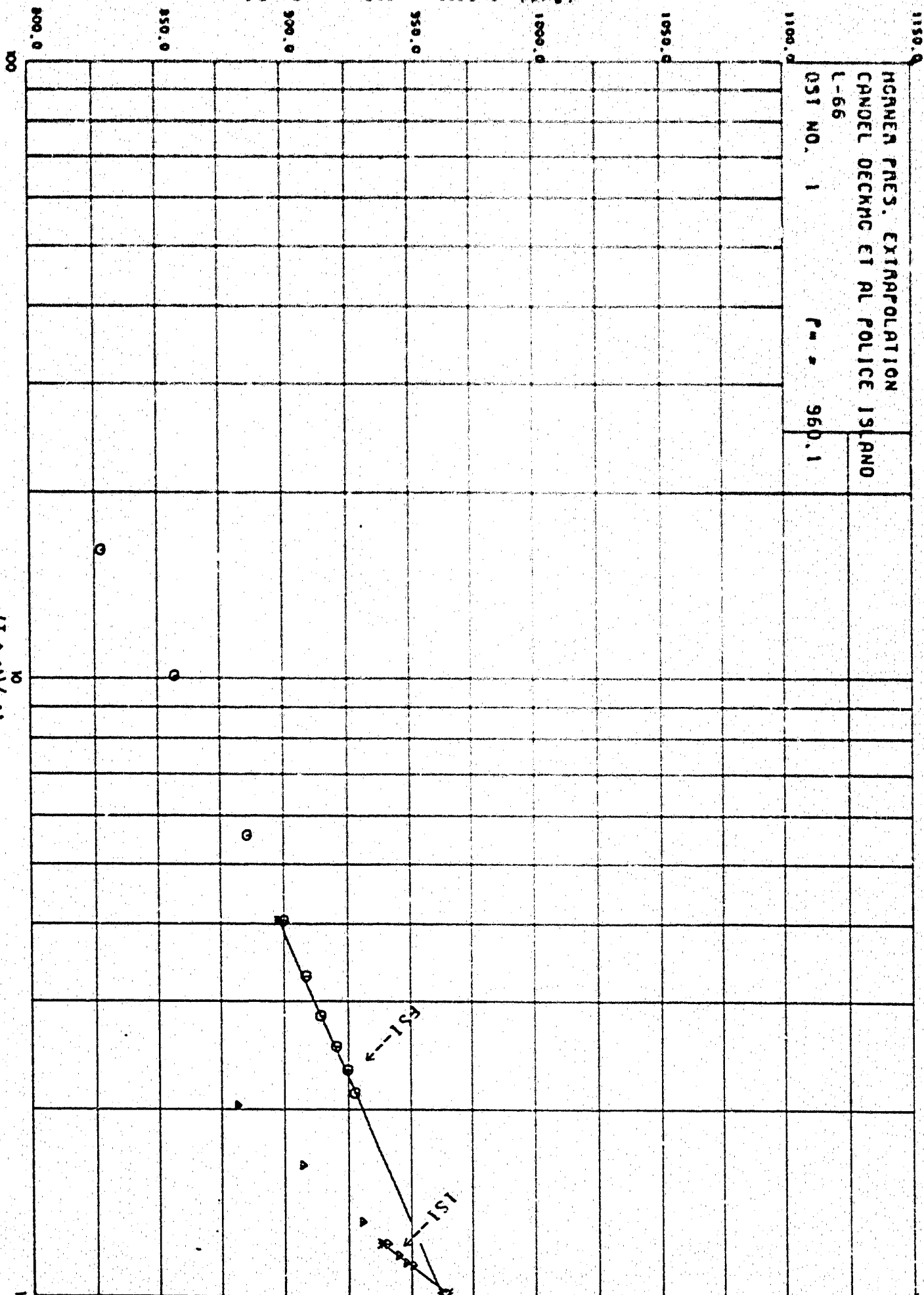
THE ENCLOSED DST INTERPRETATION CALCULATIONS REQUIRE SEVERAL NECESSARY ASSUMPTIONS TO PROVIDE A QUICK ESTIMATE OF MANY OF THE FACTORS INVOLVED. AS A RESULT THE INFORMATION GAINED SHOULD BE USED TO FORM AN OPINION OR ESTIMATE ONLY, UNTIL THE ASSUMPTIONS OF RESERVOIR AND FLUID PROPERTIES CAN BE WHOLLY OR PARTIALLY CLARIFIED BY MORE COMPLETE ANALYSIS AND TESTING.

PRESSURE VS. TIME
 CANDEL DECKING ET AL POLICE ISLAND
 L-66
 OST NO. 1 INSIDE RECORDER

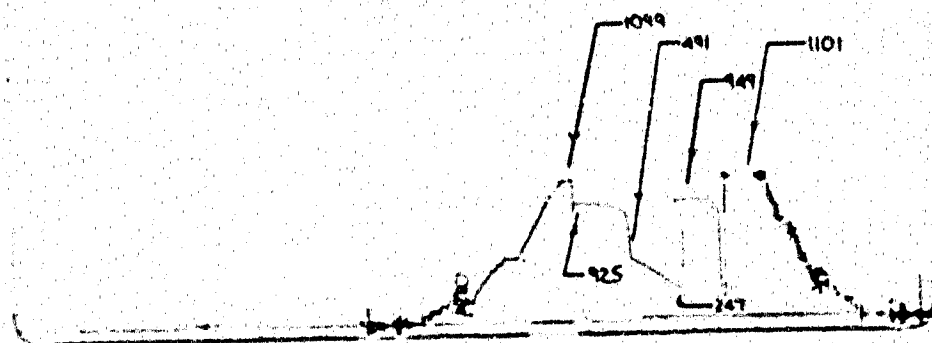


BOTTOM - HOLE PRESSURE (psig)

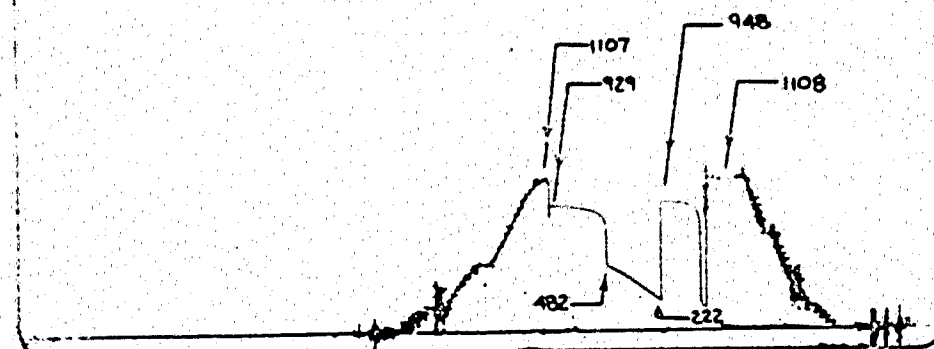
MCRAEN PRES. EXTRAPOLATION
CANDEL DECKMC ET AL POLICE ISLAND
L-66
OST NO. 1
P = 960.1



INS REC - 2012
TEST # 1



OUT REC - 2011
TEST # 1



Well Name CANDEL DECKMG ET AL POLICE ISLAND

Test No 2

Well Number L-66

Zone Tested CRETACEOUS

Company CANADIAN DELHI OIL LIMITED

Interval 2960 - 2985

Comp Rep D. NELSON

Tester P. SEEMANN

Date MAR. 21, 1971

BJ SERVICE DIVI
BORG-WARNER (CANADA)



TESTING REPORT

DRILL-STEM TEST DATA

Well Name **CANDEL DECKING ET AL POLICE ISLAND** Test No. **2**
Well Number **L-66** Zone Tested **CRETACEOUS**
Company **CANADIAN DELHI OIL LIMITED** Interval **2960 - 2985**
Company Rep **D. NELSON** Tester **P. SEEMANN** Date **MAR. 21, 1971**
Type of Test **DUAL BOTTOM HOLE** WFS Tool No. **26 (DRAINED)**

Pressure 3 min. PSI 30 min. Flow 10 min. PSI 33 min.

	1 REC. No. 2012	0 REC. No. 2011	
	5800 RANGE 12 HR. CLOCK	5500 RANGE 12 HR. CLOCK	REC. No. RANGE HR. CLOCK
DEPTH	2962	2980	
Initial Hydro Mud Press	1461	1473	
Initial Shut-In Press	1248	1256	
Initial Flow Press	1057	1095	
Final Flow Press	1220	1232	
Final Shut-In Press	1247	1255	
Final Hydro Mud Press	1451	1469	

Mud Drop **NIL** Fluid Loss **9.2** Mud Weight **9.3**
Viscosity **55** Temperature **BROKE** Net Pay Tested **19**
Top Perforator Depth **2954** Bottom Perforator Depth **2960** Total Depth **2985**
Dust Pipe Size **4.5 X.H.** An. **16.6** Den Collar ID **2.875** Ft. Run **472.16**
Surface Choke Size **ADJ** Bottom Choke Size **0.5** Main Hole Size **7.875**
Anchor Size **4-75** Bit Hole Size Type Feet of Bit Hole Rubber Size **7.0**
Cushion Size

Fluid Recovery Total Feet **2610**
Recovered **2610** Feet of **SALT WATER (32,400 PPM)**
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Gas Recovery	How Measured	Riser size
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day
mins.	Temp. °F Press Rdg. psi Orifice Size	= MCF/Day

Bleed Off Time for Drill Pipe

REMARKS: **G.I.B. STRONG AIR BLOW THROUGHOUT TEST DECREASING SLIGHTLY AT END OF TEST.**



TESTING REPORT



45 LANDING SUR _____

45 CHAMBER _____

XCHGCKX BOP SUB _____ 1.00

CO SUB _____ 1.00

SHUT IN TOOL _____ 5.10

R.P.S. No. 26 _____ 5.30

R.P.S. No. _____

HYDRAULIC TOOL _____ 7.20

JARS _____ 6.30

RECORDER No. _____ DEPTH _____

RECORDER No. _____ DEPTH _____

SAFETY JOINT _____ 1.70

BY PASS SUB _____

1. PACKER DEPTH 2954

PACKER _____ 6.00

2. PACKER DEPTH 2960

PACKER _____ 5.00
1.00

TOTAL TOOL ABOVE INTERVAL 41.60

ANCHOR—SPECIFY _____

BLANK OFF OR BY PASS SUB _____

RECORDER No. 2012 _____ 5.00 DEPTH 2962

PERFS _____ 13.00

3. PACKER DEPTH _____

PACKER _____

TOTAL INTERVAL 25.30

4. PACKER DEPTH _____

PACKER _____

ANCHOR—SPECIFY _____

RECORDER No. 2011 _____ 5.00 DEPTH 2980

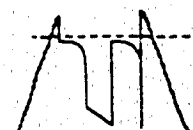
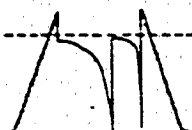
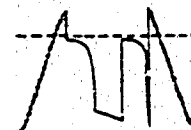
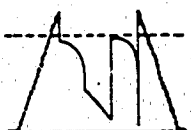
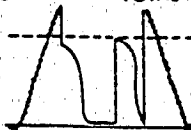
TOTAL DEPTH 2345

BULLNOSE _____ 1.30

TOTAL TAIL PIPE 25.30

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS

TOTAL TEST TOOL 66.90

HIGH PERMEABILITY
STRONG DAMAGE EFFECTHIGH PERMEABILITY
NO DAMAGE EFFECTMEDIUM PERMEABILITY
STRONG DAMAGE EFFECTMEDIUM PERMEABILITY
NO DAMAGE EFFECTLOW PERMEABILITY
STRONG DAMAGE EFFECTLOW PERMEABILITY
NO DAMAGE EFFECT



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

MEASURED PRESSURES

	POINT NUMBER	TIME MIN	PRESSURE PSIG
RUN IN HOLE	1	0.0	0.0
	2	135.0	1461.2
INITIAL HYDRO PRESSURE	3	159.0	1461.2
INITIAL PREFLOW PRESSURE	4	159.0	1096.5
	5	160.0	1167.4
	6	161.0	1177.5
FINAL PREFLOW PRESSURE	7	162.0	1066.1
START INITIAL SHUT IN	8	162.0	1066.1
	9	164.0	1242.6
	10	167.0	1247.0
	11	172.0	1247.0
	12	177.0	1248.4
	13	182.0	1248.4
	14	187.0	1248.4
INITIAL SHUT IN PRESSURE	15	192.0	1248.4
START FLOW PERIOD	16	192.0	1248.4
INITIAL FLOW PRESSURE	17	195.0	1057.4
	18	197.0	1064.6
	19	202.0	1097.9
	20	207.0	1134.1
	21	212.0	1167.4
	22	217.0	1193.4
FINAL FLOW PRESSURE	23	222.0	1219.5
START FINAL SHUT IN	24	222.0	1219.5
	25	224.0	1241.2
	26	227.0	1245.5
	27	232.0	1245.5
	28	237.0	1247.0
	29	242.0	1247.0
	30	247.0	1247.0
FINAL SHUT IN PRESSURE	31	255.0	1247.0
RUN OUT OF HOLE	32	255.0	1247.0



WELL NAME CANDEL GECKMG ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

MEASURED PRESSURES

	<u>POINT NUMBER</u>	<u>TIME MIN</u>	<u>PRESSURE PSIG</u>
FINAL HYDRO PRESSURE	33	256.0	1451.0
	34	283.0	1451.0
OUT OF HOLE	35	376.0	0.0



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

CALCULATIONS FOR LIQUID RECOVERY (FIRST SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	1249.4
NO. OF POINTS CONSIDERED IN BUILD-UP	7
NO. OF POINTS USED IN EXTRAPOLATION	6
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI)	0.13
EFFECTIVE PRODUCING TIME (MIN)	3.0



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

DATA FOR BUILD-UP PLOT (FIRST SHUT-IN)

POINT NUMBER	TIME MIN	PRESSURE PSIG	PRESSURE CALC FROM BEST FIT LINE	PRESSURE DIFFERENCE CALC - OBSERVED	T+DELTA(T)/ DELTA(T)
-----------------	-------------	------------------	---	--	-------------------------

PORTION OF BUILD-UP CURVE NOT USED IN EXTRAPOLATION

9	2.0	1242.6			2.50
---	-----	--------	--	--	------

POINTS USED IN EXTRAPOLATION

10	5.0	1247.0	1245.6	-1.4	1.60
11	10.0	1247.0	1247.3	0.3	1.30
12	15.0	1248.4	1247.9	-0.5	1.20
13	20.0	1248.4	1248.3	-0.2	1.15
14	25.0	1248.4	1248.5	0.1	1.12
15	30.0	1248.4	1248.6	0.2	1.10



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

CALCULATIONS FOR LIQUID RECOVERY (SECOND SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	1249.2
NO. OF POINTS CONSIDERED IN BUILD-UP	7
NO. OF POINTS USED IN EXTRAPOLATION	7
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI)	0.29
EFFECTIVE PRODUCING TIME (MIN)	33.0
(B) IN SITU CAPACITY (KH - MD FT)	41627.11
SLOPE OF BUILD-UP CURVE (PSI/CYCLE)	5.71
PRODUCING RATE (BBL/DAY)	1492.36
FLUID VISCOSITY (CP)	0.980
FORMATION VOLUME FACTOR (RES BBL/ST BBL)	1.000
(C) EFFECTIVE PERMEABILITY (MD)	2190.90
FORMATION THICKNESS	19.00
(D) PRODUCTIVITY INDEX (BBL/DAY/PSI)	50.24
FLOWING PRESSURE (PSIG)	1219.5
(E) APPROXIMATE DRAINAGE RADIUS (FT)	980.8
TOTAL FLOWING TIME (MIN)	33.0
(F) ESTIMATED DAMAGE RATIO	0.75
RESERVOIR POROSITY (PERCENT)	20.00
TOTAL COMPRESSIBILITY (VOL/VOL/PSI X 10-6)	6.70
WELL-BORE RADIUS (IN)	3.94
CALCULATED SKIN FACTOR	-1.73



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

DST. NO. 2

LOCATION L-66

REC. NO. 2012

DEPTH 2692.

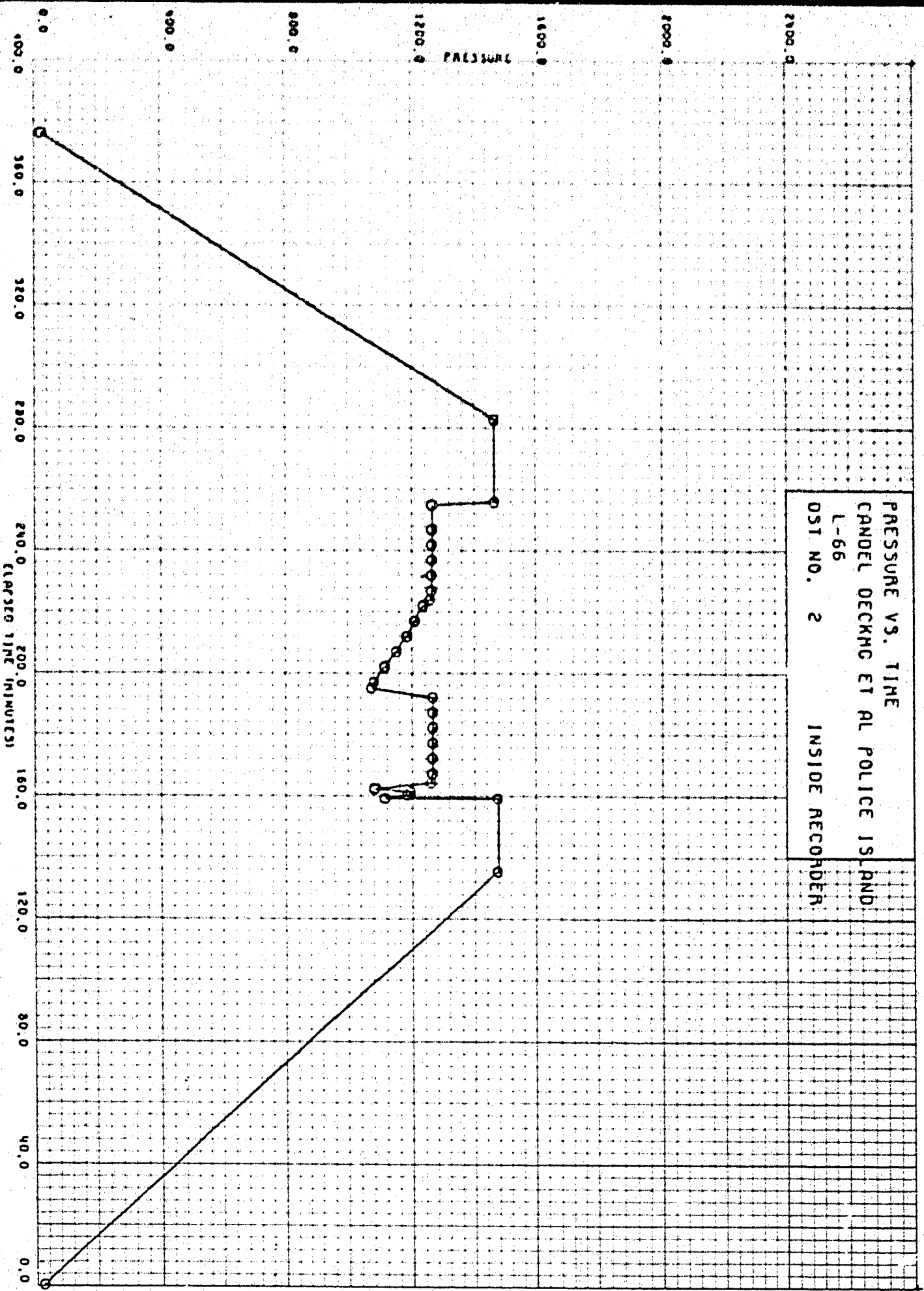
DATA FOR BUILD-UP PLOT (SECOND SHUT-IN)

POINT NUMBER	TIME MIN	PRESSURE PSIG	PRESSURE CALC FROM BEST FIT LINE	PRESSURE DIFFERENCE CALC - OBSERVED	T+DELTA(T)/ DELTA(T)
POINTS USED IN EXTRAPOLATION					
25	2.0	1241.2	1242.1	0.9	17.50
26	5.0	1245.5	1244.2	-1.4	7.60
27	10.0	1245.5	1245.6	0.0	4.30
28	15.0	1247.0	1246.3	-0.7	3.20
29	20.0	1247.0	1246.8	-0.2	2.65
30	25.0	1247.0	1247.1	0.1	2.32
31	33.0	1247.0	1247.5	0.5	2.00

ASSUMPTIONS AND LIMITATIONS

THE ENCLOSED DST INTERPRETATION CALCULATIONS REQUIRE SEVERAL NECESSARY ASSUMPTIONS TO PROVIDE A QUICK ESTIMATE OF MANY OF THE FACTORS INVOLVED. AS A RESULT THE INFORMATION GAINED SHOULD BE USED TO FORM AN OPINION OR ESTIMATE ONLY, UNTIL THE ASSUMPTIONS OF RESERVOIR AND FLUID PROPERTIES CAN BE WHOLLY OR PARTIALLY CLARIFIED BY MORE COMPLETE ANALYSIS AND TESTING.

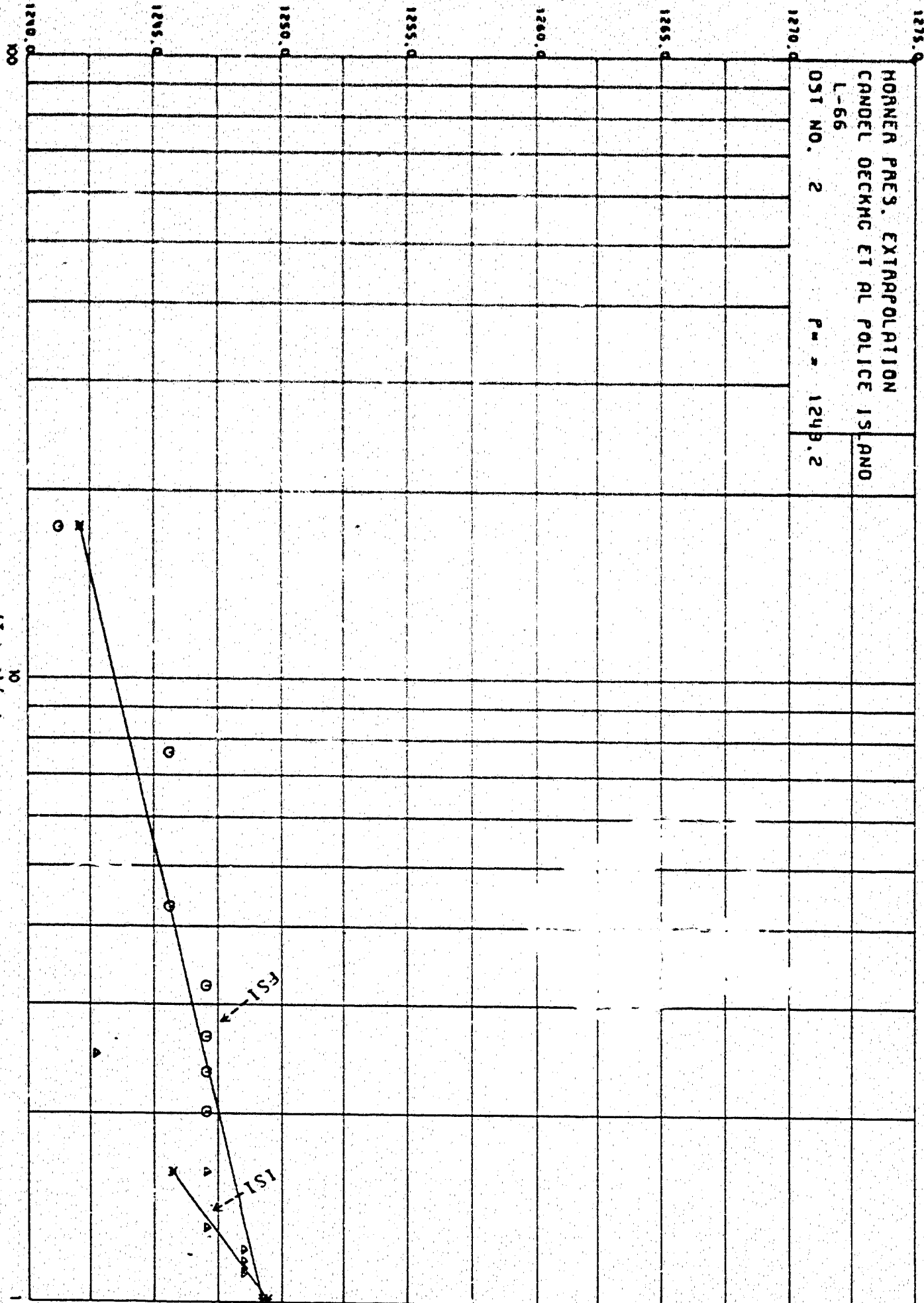
PRESSURE VS. TIME
 CANDEL DECKMC ET AL POLICE ISLAND
 L-66
 OSI NO. 2 INSIDE RECORDER



BOTTOM - HOLE PRESSURE (psig)

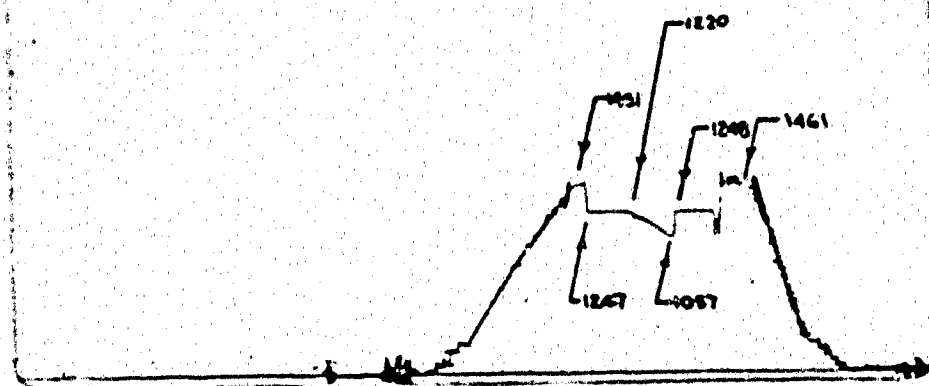
HORNER PRES. EXTRAPOLATION
CANDEL DECKMC ET AL POLICE ISLAND
L-66
OST NO. 2
P = 1249.2

$(1 + \Delta t) / \Delta t$



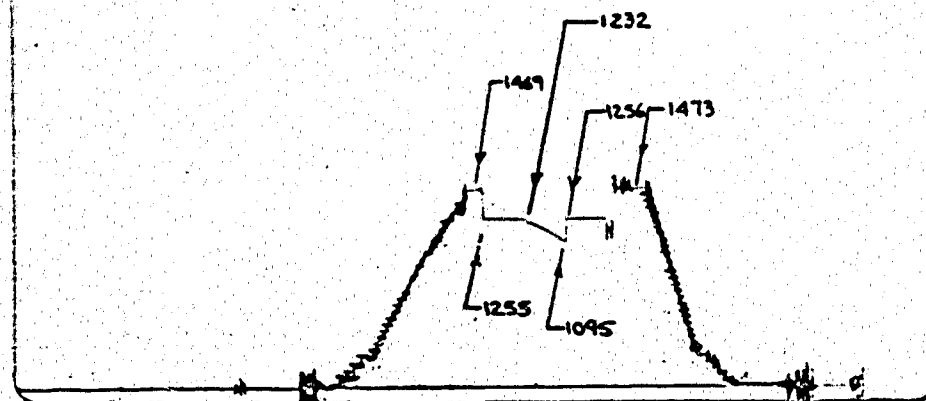
INS REC. - 2012

TEST - 2



OUTS. REC. - 2011

TEST - 2



Well Name CANDEL DECKING ET AL POLICE ISLAND

Test No. 3

Well Number L-66

Zone Tested SILURIAN

Company CANADIAN DELHI OIL LIMITED

Interval 3317 - 3392

Camp Rep. D. NELSON

Tester BUDVARSON

Date MARCH 24/71

BJ SERVICE DIVI
BORG-WARNER (CANADA)



TESTING REPORT

DRILL-STEM TEST DATA

Well Name **CANDEL DECKING ET AL POLICE ISLAND** Test No. **3**
Well Number **L-66** Zone Tested **SILURIAN**
Company **CANADIAN DELMI OIL LIMITED** Interval **3317 - 3392**
Covers. Rep. **D. NELSON** Tester **BUDVARSON** Date **MARCH 24/71**
Type of Test **DUAL BTM. HOLE** R.F.S. Test No. **18**

Preflow 10 mins. (SI) 27 mins. Flow 54 mins. (SI) 43 mins.

	1 REC. No. 2227	0 REC. No. 2011	REC. No.	
	3600 RANGE	12 HR. CLOCK 5500 RANGE	12 HR. CLOCK	RANGE HR. CLOCK
DEPTH		3299	3319	
Initial Hydro. Press.		1557	1575	
Initial Shut-In Press.		893	909	
Initial Flow Press.		47	56	
Final Flow Press.		58	73	
Final Shut-In Press.		557	573	
Final Hydro. Press.		1557	1577	

Mud Chg. **MIL** Mud Weight **12.3**
Viscosity **62** Temperature **126** Net Pay Tested **10'**
Top Pocket Depth **3311** Bottom Pocket Depth **3317** Total Depth **3392**
Drill Pipe Size **4.5 X.H.** W. **10.6** Drill Collars **2.875 X H-80** H. Run **534**
Surface Choke Size **CLOSED** Bottom Choke Size **0.5** Ann. Hole Size **7.875**
Ann. Hole Size **4.75 O.D.** Root Hole Size
Cushion Amount
Time
Mud Hole Size **6.625**

Fluid Recovery Total Feet **90**
Recovered **90** Feet of **DRILLING MUD WT. - 9.0**
Recovered Feet of
Recovered Feet of
Recovered Feet of
Recovered Feet of

Gas Recovery	How Measured	Riser size
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day
mins.	Temp. °F Press. Rdg.	ps. Orifice Size = MCF/Day

Bleed Off Time for Drill Pipe **14 MINS.**

REMARKS: **WEAK AIRFLOW DURING PREFLOW. NO AIRFLOW DURING INITIAL FLOW. RESET TOOL DURING FINAL FLOW - WEAK AIRFLOW. DEAD IN 14 MINS.**



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

OST. NO. 3

LOCATION L-66

REC. NO.

2227

DEPTH 3299.

MEASURED PRESSURES

	POINT NUMBER	TIME MIN	PRESSURE PSIG
RUN IN HOLE	1	0.0	0.0
	2	115.0	1556.7
INITIAL HYDRO PRESSURE	3	131.0	1556.7
INITIAL PREFLOW PRESSURE	4	131.0	46.8
	5	134.0	40.6
	6	136.0	40.6
FINAL PREFLOW PRESSURE	7	141.0	40.6
START INITIAL SHUT IN	8	141.0	40.6
	9	146.0	486.7
	10	151.0	648.4
	11	156.0	744.7
	12	161.0	812.7
	13	166.0	864.0
INITIAL SHUT IN PRESSURE	14	170.0	893.1
START FLOW PERIOD	15	170.0	893.1
INITIAL FLOW PRESSURE	16	171.0	46.8
	17	175.0	46.8
	18	180.0	46.8
	19	185.0	46.8
	20	190.0	47.7
	21	195.0	47.7
	22	200.0	47.7
	23	205.0	48.6
	24	212.0	48.6
RESET TOOLS	25	212.0	48.6
	26	213.0	1543.3
TOOLS RESET	27	215.0	1543.3
RESUME FLOW	28	215.0	67.1
	29	220.0	57.4
FINAL FLOW PRESSURE	30	224.0	58.5
START FINAL SHUT IN	31	224.0	58.3



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

DST. NO. 3

LOCATION L-66

REC. NO.

2227

DEPTH

3299.

MEASURED PRESSURES

	POINT NUMBER	TIME MIN	PRESSURE PSIG
	32	229.0	220.0
	33	234.0	304.8
	34	239.0	364.0
	35	244.0	412.5
	36	249.0	452.3
	37	254.0	485.9
	38	259.0	515.9
FINAL SHUT IN PRESSURE	39	267.0	556.5
RUN OUT OF HOLE	40	267.0	556.5
FINAL HYDRO PRESSURE	41	268.0	1556.7
	42	275.0	1556.7
OUT OF HOLE	43	362.0	0.0



WELL NAME CANDEL DECKMC ET AL POLICE ISLAND

DST. NO. 3

LOCATION L-06

REC. NO.

2227 DEPTH 3299.

CALCULATIONS FOR LIQUID RECOVERY (FIRST SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	1110.1
NO. OF POINTS CONSIDERED IN BUILD-UP	6
NO. OF POINTS USED IN EXTRAPOLATION	4
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI).....	4.29
EFFECTIVE PRODUCING TIME (MIN)	10.0



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

OST. NO. 3

LOCATION L-66

REC. NO.

2227

DEPTH 3290.

DATA FOR BUILD-UP PLOT (FIRST SHUT-IN)

POINT NUMBER	TIME MIN	PRESSURE PSIG	PRESSURE CALC FROM BEST FIT LINE	PRESSURE DIFFERENCE CALC - OBSERVED	T*DELTA(T)/ DELTA(T)
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PORTION OF BUILD-UP CURVE NOT USED IN EXTRAPOLATION

9	5.0	486.7			3.00
10	10.0	648.4			2.00

POINTS USED IN EXTRAPOLATION

11	15.0	744.7	732.6	-12.1	1.67
12	20.0	812.7	810.5	-2.2	1.50
13	25.0	864.0	861.5	-2.5	1.40
14	29.0	893.1	891.2	-1.9	1.34



WELL NAME CANDEL DECKING ET AL POLICE ISLAND

OST. NO. 3

LOCATION L-66

REC. NO.

2227

DEPTH 3299.

CALCULATIONS FOR LIQUID RECOVERY (SECOND SHUT-IN)

(A) EXTRAPOLATED RESERVOIR PRESSURE	820.5
NO. OF POINTS CONSIDERED IN BUILD-UP	8
NO. OF POINTS USED IN EXTRAPOLATION	4
ROOT MEAN SQUARE DEVIATION OF BEST-FIT LINE (PSI).....	1.67
EFFECTIVE PRODUCING TIME (MIN)	61.0
(B) IN SITU CAPACITY (KH - MD FT)	2.04
SLOPE OF BUILD-UP CURVE (PSI/CYCLE)	691.67
PRODUCING RATE (BBL/DAY)	17.06
FLUID VISCOSITY (CP)	0.510
FORMATION VOLUME FACTOR (RES BBL/ST BBL).....	1.000
(C) EFFECTIVE PERMEABILITY (MD)	0.20
FORMATION THICKNESS	10.00
(D) PRODUCTIVITY INDEX (BBL/DAY/PSI)	0.02
FLOWING PRESSURE (PSIG)	58.3
(E) APPROXIMATE DRAINAGE RADIUS (FT)	17.9
TOTAL FLOWING TIME (MIN)	61.0
(F) ESTIMATED DAMAGE RATIO	0.32
RESERVOIR POROSITY (PERCENT)	20.00
TOTAL COMPRESSIBILITY (VOL/VOL/PSI X 10-6)	6.70
WELL-BORE RADIUS (IN)	3.94
CALCULATED SKIN FACTOR	-2.44



WELL NAME CANDEL DECKMG ET AL POLICE ISLAND

DST. NO. 3

LOCATION L-66

REC. NO.

2227

DEPTH 3299.

DATA FOR BUILD-UP PLOT (SECOND SHUT-IN)

POINT NUMBER -----	TIME MIN -----	PRESSURE PSIG -----	PRESSURE CALC FROM BEST FIT LINE -----	PRESSURE DIFFERENCE CALC - OBSERVED -----	T+DELTA(T)/ DELTA(T) -----
--------------------------	----------------------	---------------------------	--	---	----------------------------------

PORTION OF BUILD-UP CURVE NOT USED IN EXTRAPOLATION

32	5.0	220.0			13.20
33	10.0	304.8			7.10
34	15.0	364.0			5.07
35	20.0	412.5			4.05

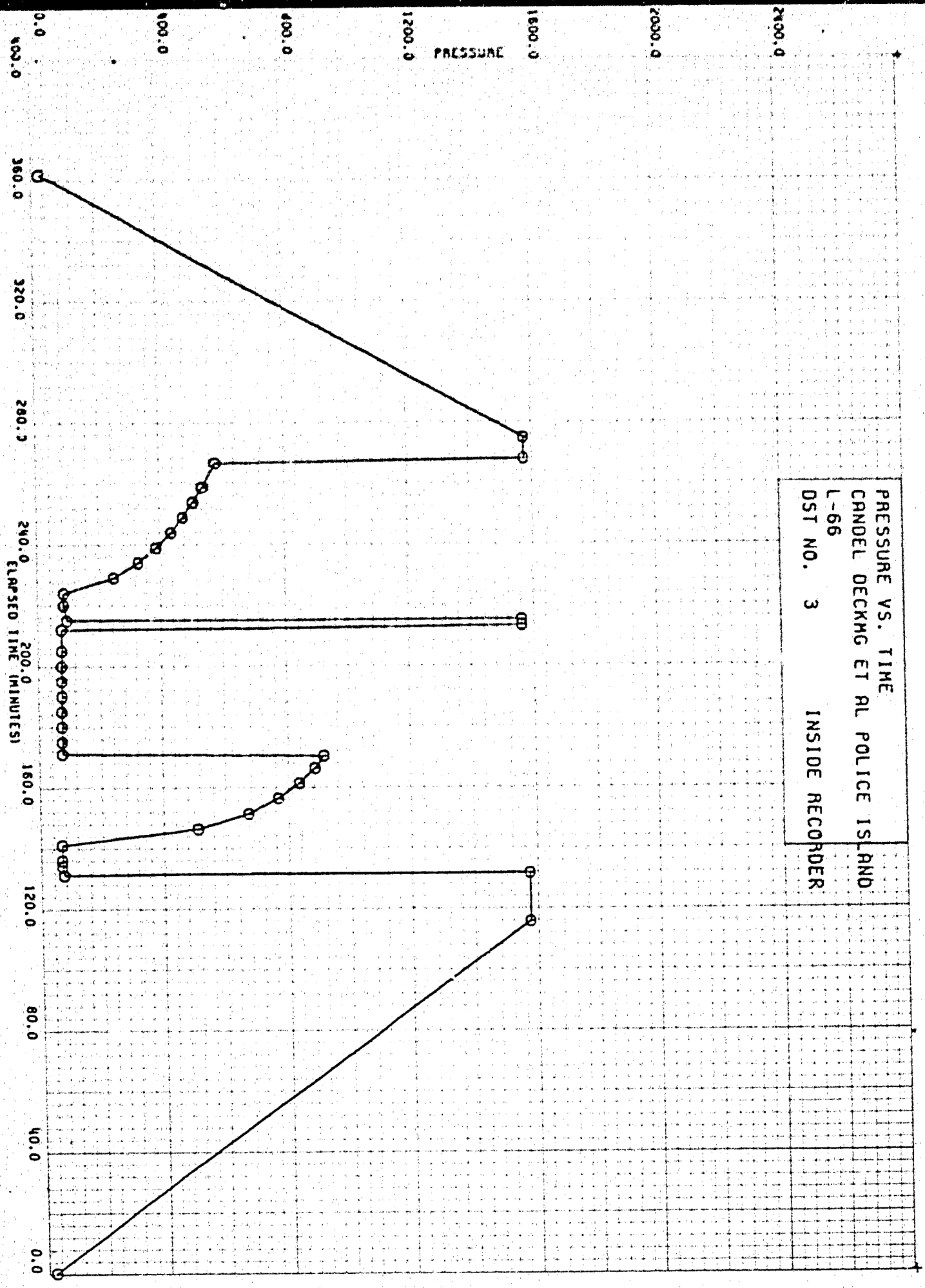
POINTS USED IN EXTRAPOLATION

36	25.0	452.3	449.4	-2.9	3.44
37	30.0	485.9	487.2	1.3	3.03
38	35.0	515.9	517.4	1.5	2.74
39	43.0	556.5	555.2	-1.3	2.42

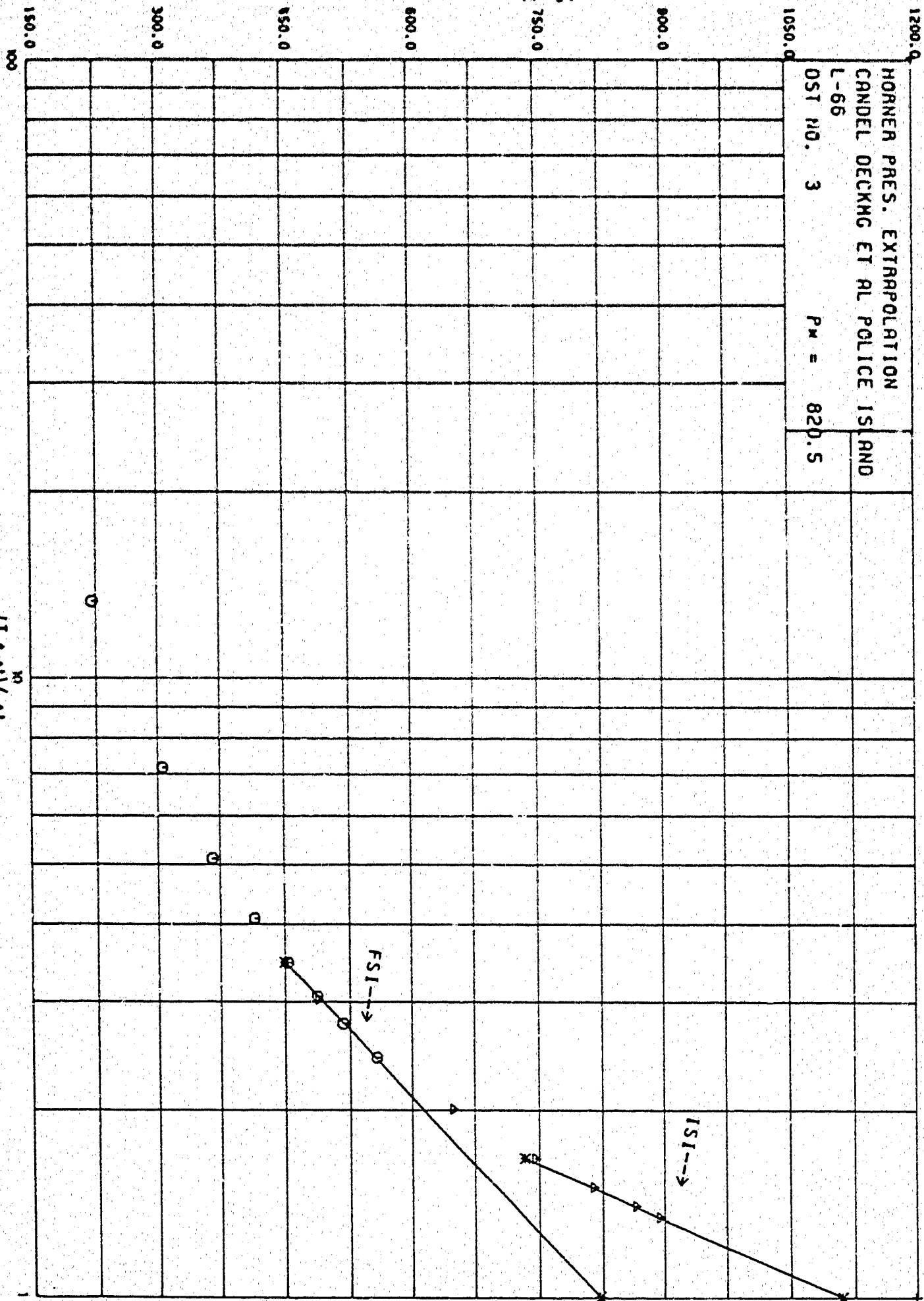
ASSUMPTIONS AND LIMITATIONS

THE ENCLOSED DST INTERPRETATION CALCULATIONS REQUIRE SEVERAL NECESSARY ASSUMPTIONS TO PROVIDE A QUICK ESTIMATE OF MANY OF THE FACTORS INVOLVED. AS A RESULT THE INFORMATION GAINED SHOULD BE USED TO FORM AN OPINION OR ESTIMATE ONLY, UNTIL THE ASSUMPTIONS OF RESERVOIR AND FLUID PROPERTIES CAN BE WHOLLY OR PARTIALLY CLARIFIED BY MORE COMPLETE ANALYSIS AND TESTING.

PRESSURE VS. TIME
 CANDEL DECKMG ET AL POLICE ISLAND
 L-66
 DST NO. 3 INSIDE RECORDER

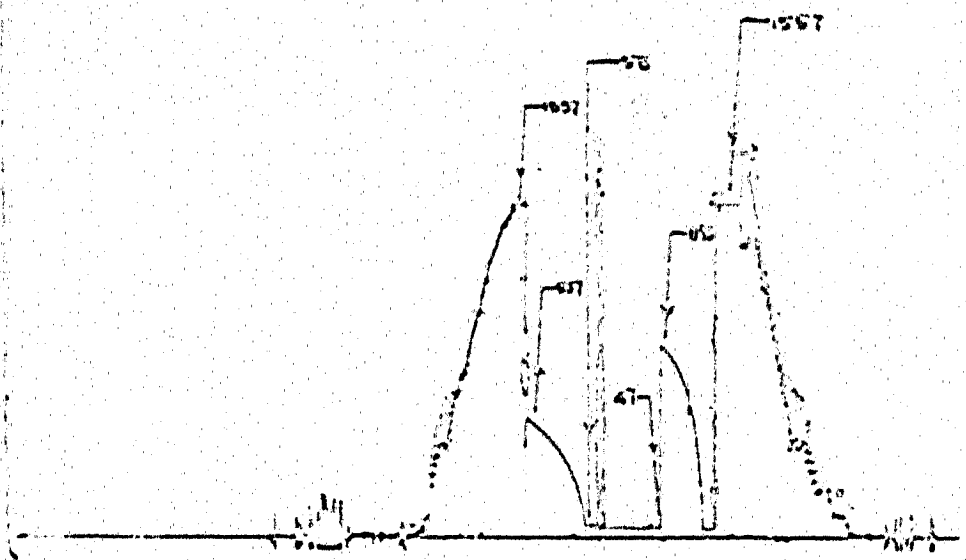


BOTTOM - HOLE PRESSURE (psig)



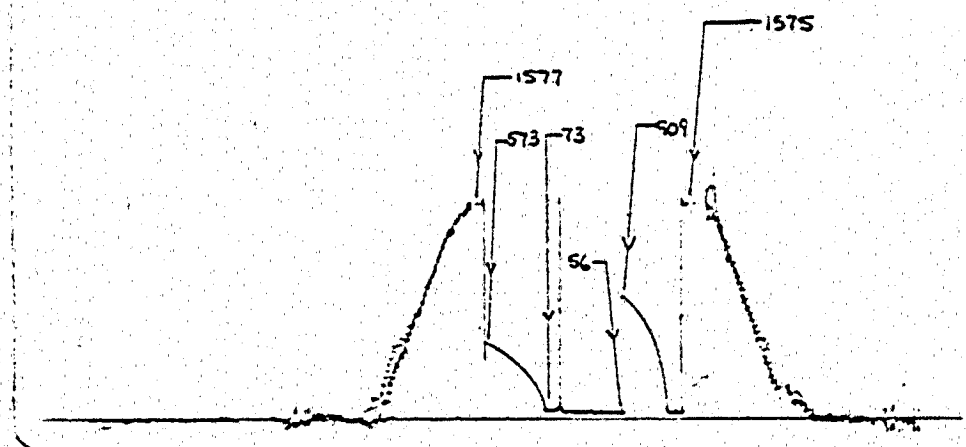
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CANDEL DECKME ET AL POLICE ISLAND L-66
 INSIDE RECORDER NO. 2227
 TEST NO. 3



DST RECORDER CHARTS

CANDEL DECKME ET AL POLICE ISLAND L-66
 OUTSIDE RECORDER No. 2011
 TEST NO. 3



DAILY DRILLING REPORT

REPORT NO. 24

DATE 10/16/57

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
CANDIAN DCH41		Pump Drilling Co. Lease 13		666		Pulaski Island		FORT MORRIS		ALASKA	
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		PUMPS		REMARKS	
Jennings International Drilling		9		2 1/2		TYPE 1HD. XPH		1. 15000 2. 15000		1425 Cement 20% CC	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH	
				1. 15000				17500		16	
				2. 15000				17500		16	
				3.							
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
RIG UP & TEAR DOWN		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
DRILLING ACTUAL		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
REAMING		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
CONDITIONING MUD & CIRCULATING		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
TRIPS		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
LUBRICATE RIG		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
DEVIATION SURVEY		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
TEST B.O.P.		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
CUT OFF DRILLING LINE		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
REPAIR RIG		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
CORING		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
WIRE LINE LOGGING		TOTAL		FT.		COND. OF BIT		DRILLER			
RUNNING CASING & CEMENTING		WT. OF STRING		LBS.		REAMER NO.					
WAITING ON CEMENT		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
DRILL STEM TEST		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
OTHER		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
FISHING		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
A. PERFORATING		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
B. TUBING TRIPS		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
C. SWABBING		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
D. TESTING		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
E. ADDITIONAL		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
TOTALS		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
TIME SUMMARY (OFFICE USE ONLY)		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
DAY WORK		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
HRS. W/DP		TOTAL		FT.		COND. OF BIT		DRILLER			
HRS. WO/DP		WT. OF STRING		LBS.		REAMER NO.					
HRS. STANDBY		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
		TOTAL		FT.		COND. OF BIT		DRILLER			
		WT. OF STRING		LBS.		REAMER NO.					
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
		TOTAL		FT.		COND. OF BIT		DRILLER			
		WT. OF STRING		LBS.		REAMER NO.					
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
		TOTAL		FT.		COND. OF BIT		DRILLER			
		WT. OF STRING		LBS.		REAMER NO.					
		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
		STANDS D.P.		FT.		BIT NO.		TIME		FROM	
		SINGLES D.P.		FT.		SIZE		WEIGHT		TO	
		D.C.		FT.		MFG.		VISC.-SEC		DR. D RM. H CORE-C	
		I.D. O.D.		FT.		TYPE		W.L.-C.C.		CORE NO.	
		D.C.		FT.		NOZZLE		FLTR. CK.		FORMATION (SHOW CORE RECOVERY)	
		STB. BODY O.D.		FT.		NO. SIZE		PH		ROTARY RPM	
		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %		WT. ON BIT 1000 #	
		RM. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT		PUMP PRESS	
		SUBS O.D.		FT.		DEPTH IN				PUMP NO. LINER SIZE S.P.M.	
		BIT OR C.B.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		PUMP NO. LINER SIZE S.P.M.	
		KELLY DOWN		FT.		TOTAL HR. RUN		TYPE AMT. TYPE		METHOD RUN SOL. S. PART. P. COMD. C.	
		TOTAL		FT.		COND. OF BIT		DRILLER			
		WT. OF STRING		LBS.		REAMER NO.					

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	200	2	W.C.C. Lay Down 1742F
200	300	1	Run in + fill plug #2 3032
300	400	1	Push up + Run plug #3 2430 to 2432
			146 SK 20% CC
1100	300	4	Turn off Lay Down 18 9 STANDS D.P

AMT.

TIME LOG

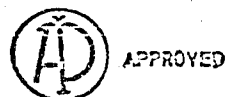
FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	1130	3 1/2	W.C.C.
1130	1200	1	Run in + fill plug #3 2147
1200	100	1	Lay Down 24 45 STANDS
100	100	1	Run Plug #1
100	200	1 1/2	FULL LAY
200	400	1 1/2	W.C.C.

AMT.

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	9:00	5	Run in + fill plug #4. Plug at 100'
9:00	9:15	15	LAY DOWN D.P.
9:15	9:45	30	TEAR OUT. 100'S
9:45	12:00	2 1/2	

AMT.



AA.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT										REPORT NO. 23		DATE APRIL 4, 1971																																			
OPERATOR CANADIAN DELHI				LEASE CANDEL DECKING ETAL POLICE IS.				WELL NO. L-66		FIELD OR DIST. POLICE ISLAND		COUNTY FORT NORMAN		STATE N.W.T.																																	
CONTRACTOR Jennings International Drilling A Division of Western Electronics & Engineering Ltd.				RIG NO. 9		DRILL PIPE STRNG 6 1/4 O.D.		TOOL JOINT X H		PUMPS		SIZE 8 3/4 MM		MAKE MM																																	
SIGNATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S TOOL PUSHER				NO.		MANUFACTURER		TYPE		STROKE LENGTH																																	
								1. Emsco		DA 500		16"																																			
								2. Emsco		DA 500		16"		LAST CASING TUBING OR LINER																																	
TIME DISTRIBUTION-HOURS				DRILLING ASSEMBLY AT END OF TOU				BIT RECORD				MUD RECORD				FOOTAGE				FORMATION (SHOW CORE RECOVERY)				ROTARY RPM				WT. ON BIT 1000#				PUMP PRESS				PUMP NO. / LINER SIZE S.P.M.				PUMP NO. / LINER SIZE S.P.M.				METHOD RUN			
MORN DAY EVE				STANDS D.P. FT.				BIT NO.				TIME 2 00 6 00				FROM TO																															
RIG UP / TEAR DOWN				SINGLES D.P. 4397.56 FT.				SIZE				WEIGHT 9.2 9.2																																			
DRILLING ACTUAL				D.C.				MFG.				VISC.-SEC 48 48																																			
REAMING				I.D. O.D. FT.				TYPE				W.L.-C.C.																																			
CONDITIONING MUD & CIRCULATING 1748 2				D.C.								FLTR. CK.																																			
TRIPS				I.D. O.D. FT.				NOZZLE				PH																																			
LUBRICATE RIG 1/4				STB. BODY O.D. FT.				SER. NO.				SD. CONT. %																																			
DEVIATION SURVEY				STB. BODY O.D. FT.				DEPTH OUT				PRESSURE GRADIENT																																			
TEST B.O.P.				RMR. BODY O.D. FT.				DEPTH IN																																							
CUT OFF DRILLING LINE				SUBS O.D. FT.				TOTAL FTG.				MUD & CHEM. CALS ADDED																																			
REPAIR RIG				BIT OR C.B. FT.				TOTAL HR. RUN				TYPE AMT. TYPE AMT.																																			
CORING				KELLY DOWN 17.00 FT.				COND. OF BIT																																							
WIRE LINE LOGGING				TOTAL 4414 FT.				REAMER NO.																																							
CIRCUITING CASING & CEMENTING				WT. OF STRING 80,000 LBS.				REAMER TYPE				DRILLER Dave Fykeas																																			
WAITING ON CEMENT																																															
DRILL STEM TEST																																															
OTHER																																															
FISHING																																															
COMPLETION WORK																																															
A. PERFORATING																																															
B. TUBING TRIPS																																															
C. SWABBING																																															
D. TESTING																																															
E. ADDITIONAL																																															
TOTALS 488																																															
TIME SUMMARY (OFFICE USE ONLY)																																															
DAY WORK																																															
HRS. W/DP																																															
HRS. WO/DP																																															
HRS. STANDST																																															
TOTAL DAY WORK																																															
WIRE LINE RECORD																																															
REEL NO.																																															
NO. OF LINES 8 SIZE 1 1/8																																															
FEET SLIPPED																																															
FEET CUT OFF																																															
PRESENT LENGTH																																															
TON ML. OR TRIPS SINCE LAST CUT																																															
CUMULATIVE TON ML. OR TRIPS																																															
NO. OF DAYS FROM SPUD 23																																															
CUMULATIVE ROTATING HRS.																																															



A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

REPORT NO. 22 DATE April 3, 1971

DAILY DRILLING REPORT

OPERATOR CANADIAN DELHI		LEASE CANDEL DECKING ETAL POLICE ISLAND		WELL NO. 2-66	FIELD OR DIST. POLICE ISLAND	COUNTY FORT NORMAN	STATE N.W.T.						
CONTRACTOR Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		RIG NO. 9	DRILL PIPE STRING NO. 2 SIZE 4 1/2 TYPE THD. XH	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH 1. EMSCO DA500 16" 2. EMSCO DA500 16" 3.		SIZE 8 3/4 MM	MAKE 1	WT. & GR. 18	NO. JOINTS 665	FEET 1330	RKB. TO CSG. HD. 652	SET AT 425	REMARKS 425 - 1st of Candel
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>George Lusk</i>											

TIME DISTRIBUTION-HOURS				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
MORN	DAY	EVE		STANDS D.P.	FT.	BIT NO.	TIME	WEIGHT	VISC.-SEC	W.L.-C.C.	FLTR. CK.	PH	SD. CONT. %	PRESSURE GRADIENT	FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
RIG UP & TEAR DOWN																											
DRILLING ACTUAL																											
REAMING																											
CONDITIONING MUD & CIRCULATING																											
TRIPS																											
LUBRICATE RIG																											
DEVIATION SURVEY																											
TEST & O.P.																											
CUT OFF DRILLING LINE																											
REPAIR RIG																											
CORING																											
WIRE LINE LOGGING																											
RUNNING CASING & CEMENTING																											
WAITING ON CEMENT																											
DRILL STEM TEST																											
OTHER																											
FISHING																											
A. PERFORATING																											
B. TUBING TRIPS																											
C. SWABBING																											
D. TESTING																											
E. ADDITIONAL																											
TOTALS																											
TIME SUMMARY (OFFICE USE ONLY)																											
DAY WORK																											
HRS. W/DP																											
HRS. W/O/DP																											
HRS. STANDBY																											
TOTAL DAY WORK																											
WIRE LINE RECORD																											
REEL NO.																											
NO. OF LINES																											
SIZE																											
FEET SLIPPED																											
FEET CUT OFF																											
PRESENT LENGTH																											
TON MI. OR TRIPS SINCE LAST CUT																											
CUMULATIVE TON MI. OR TRIPS																											
NO. OF DAYS FROM SPUD																											
CUMULATIVE ROTATING HRS.																											

A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 21 DATE April 2, 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																					
CANADIAN DELHI		CANDEL DECKING FAL RICE IS.		A-66		PINE ISLAND		FULTON		N.W.T.																					
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS			LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RK.D. TO CSG. HD.	SET AT	REMARKS															
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2	6 1/4 O.D.	NO.	SIZE	TYPE THD.	NO.	MANUFACTURER	TYPE	STROKE LENGTH																				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER			1. E-1300			DA 500	16"																						
					2. E-1300			DA 500	16"																						
					3.																										
TIME DISTRIBUTION-HOURS				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
						STANDS D.P.		BIT NO.		TIME		FROM		TO																	
RIG UP & TEAR DOWN				1		3800.93		R-16		12:30 4:00 7:00		4313		4363		D															
DRILLING ACTUAL				18		532.12		H.W.		VISC.-SEC 60 58 64																					
REAMING								J-44		W.L.-C.C. 7.7 7.9 8.0																					
CONDITIONING MUD & CIRCULATING								NO. 3		FLTR. CK. 732 732 732																					
TRIPS								NO. 11		PH 10.5 10.5 10.5																					
LUBRICATE RIG								SER. NO. DB-179		SD. CONT. %																					
DEVIATION SURVEY								DEPTH OUT 4288		PRESSURE GRADIENT																					
TEST B.O.P.								DEPTH IN 4288																							
CUT OFF DRILLING LINE								TOTAL FTG. 50		MUD & CHEMICALS ADDED																					
REPAIR RIG								TOTAL HR. RUN 7.4		GEL 1500																					
CORING								COND. OF BIT 0/B																							
WIRELINE LOGGING								REAMER NO.																							
RUNNING CASING & CEMENTING								REAMER TYPE																							
WAITING ON CEMENT								DRILLER		Clare Ferguson																					
DRILL STEM TEST																															
OTHER																															
FISHING																															
COMPLETION WORK																															
A. PERFORATING																															
B. TUBING TRIPS																															
C. SWABBING																															
D. TESTING																															
E. ADDITIONAL																															
TOTALS																															
TIME SUMMARY (OFFICE USE ONLY)																															
DAY WORK																															
HRS. W/DP																															
HRS. W/O/DP																															
HRS. STANDBY																															
TOTAL DAY WORK																															
WIRE LINE RECORD																															
REEL NO.																															
NO. OF LINES																															
FEET SLIPPED																															
FEET CUT OFF																															
PRESENT LENGTH																															
TON M. OR TRIPS SINCE LAST CUT																															
CUMULATIVE TON M. OR TRIPS																															
NO. OF DAYS FROM SPUD																															
CUMULATIVE ROTATING HRS.																															



APPROVED



APPROVED

A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 20

DATE APRIL 1 1971

OPERATOR		LEASE		WELL NO.	FIELD OR DIST.	COUNTY	STATE																				
CAVAZIAN DPHI		CANADA DOCKING FIELD		666	DOCKING ISLAND	FOOT MARMON	ALASKA																				
CONTRACTOR Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		RIG NO. 9	DRILL PIPE STRING NO. 1 SIZE 4 1/2 TYPE THD. X 1 1/2	PUMPS NO. 1 MANUFACTURER EMSCO TYPE 1000 STROKE LENGTH 16		LAST CASING TUBING G2 LINER																					
SIGNATURE OF OPERATOR'S REPRESENTATIVE George Luckman		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		SIZE 8 7/8 MAKE 14 M WT. & CR. 1 NO. JOINTS 14 FEET 665 RKB. TO CSG. NO. 13.30 SET AT 692		REMARKS H21-514 OFC 29% RU																					
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. LINER SIZE		PUMP NO. LINER SIZE		METHOD RUN SOL. S PAR. ELP COM'D C	
RIG UP & TEAR DOWN		39 STANDS D.P. 36 74 88		BIT NO. 1		TIME 10:00		FROM 4248 TO 4296		C				FUEL 7		70		12		420		52		46			
DRILLING ACTUAL		D.C. 21		SIZE 1 1/2		WEIGHT 91		4248 4296		C				FUEL 7		70		12		420		52		46			
REAMING		18 I.D. O.D. 5 32.12		MFG. W.C. 100		VISC.-SEC 110		4248 4296		C				FUEL 7		70		12		420		52		46			
CONDITIONING MUD & CIRCULATING		D.C.		NO. 1		FLTR. CK. 1/32		4248 4296		C				FUEL 7		70		12		420		52		46			
TRIPS		I.D. O.D.		NO. 1		PH 10.5		4248 4296		C				FUEL 7		70		12		420		52		46			
LUBRICATE RIG		STB. BODY O.D.		SER. NO. 09-20		SD. CONT. %		4248 4296		C				FUEL 7		70		12		420		52		46			
DEVIATION SURVEY		STB. BODY O.D.		DEPTH OUT		PRESSURE GRADIENT		4248 4296		C				FUEL 7		70		12		420		52		46			
TEST B.O.P.		SUBS 2100 D.		DEPTH IN				4248 4296		C				FUEL 7		70		12		420		52		46			
CUT OFF DRILLING LINE		BIT OR C.B.		TOTAL FTG.		MUD & CHEMICALS ADDED		4248 4296		C				FUEL 7		70		12		420		52		46			
REPAIR RIG		CORO 1/2		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		4248 4296		C				FUEL 7		70		12		420		52		46			
CORING		KELLY DOWN		COND. OF BIT				4248 4296		C				FUEL 7		70		12		420		52		46			
WIRE LINE LOGGING		TOTAL		REAMER NO.				4248 4296		C				FUEL 7		70		12		420		52		46			
RUNNING CASING & CEMENTING		WT. OF STRING		REAMER TYPE		DRILLER		4248 4296		C				FUEL 7		70		12		420		52		46			
WAITING ON CEMENT		111.000 LBS.				Dane Ferguson		4248 4296		C				FUEL 7		70		12		420		52		46			
DRILL STEM TEST		NO. 39		STANDS D.P. 30 74 88		BIT NO. 1		TIME 10:00		FROM 4296 TO 4313		C		FUEL 7		70		12		420		52		46			
OTHER		SINGLES D.P.		SIZE 1 1/2		WEIGHT 91		4296 4313		C				FUEL 7		70		12		420		52		46			
FISHING		D.C. 1/2		MFG. W.C. 100		VISC.-SEC 110		4296 4313		C				FUEL 7		70		12		420		52		46			
COMPLETION WORK		I.D. O.D. 5 32.12		TYPE 1		FLTR. CK. 1/32		4296 4313		C				FUEL 7		70		12		420		52		46			
A. PERFORATING		D.C.		NO. 1		PH 10.5		4296 4313		C				FUEL 7		70		12		420		52		46			
B. TUBING TRIPS		I.D. O.D.		SER. NO. 09-20		SD. CONT. %		4296 4313		C				FUEL 7		70		12		420		52		46			
C. STABBING		STB. BODY O.D.		DEPTH OUT		PRESSURE GRADIENT		4296 4313		C				FUEL 7		70		12		420		52		46			
D. TESTING		STB. BODY O.D.		DEPTH IN				4296 4313		C				FUEL 7		70		12		420		52		46			
E. ADDITIONAL		RMR. BODY O.D.		TOTAL FTG.		MUD & CHEMICALS ADDED		4296 4313		C				FUEL 7		70		12		420		52		46			
TOTALS		SUBS 254		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		4296 4313		C				FUEL 7		70		12		420		52		46			
TIME SUMMARY (OFFICE USE ONLY)		BIT OR C.B.		COND. OF BIT				4296 4313		C				FUEL 7		70		12		420		52		46			
DAY WORK		KELLY DOWN		REAMER NO.		DRILLER		4296 4313		C				FUEL 7		70		12		420		52		46			
HRS. W/DP		TOTAL		REAMER TYPE		Dane Ferguson		4296 4313		C				FUEL 7		70		12		420		52		46			
HRS. W/DP		WT. OF STRING						4296 4313		C				FUEL 7		70		12		420		52		46			
HRS. STANDBY		110.000 LBS.						4296 4313		C				FUEL 7		70		12		420		52		46			
TOTAL DAY WORK		NO. 39		STANDS D.P. 36 74 88		BIT NO. 1		TIME 10:00		FROM 4313 TO 4313		R		FUEL 7		50		34		1400		54		58			
WIRE LINE RECORD		SINGLES D.P.		SIZE 7 3/8		WEIGHT 96		4313 4313		R				FUEL 7		50		34		1400		54		58			
REEL NO.		D.C. 1/4		MFG. H.W.		VISC.-SEC 161		4313 4313		R				FUEL 7		50		34		1400		54		58			
NO. OF LINES		I.D. O.D. 5 32.12		TYPE J-44		FLTR. CK. 1/32		4313 4313		R				FUEL 7		50		34		1400		54		58			
FEET SLIPPED		D.C.		NO. 3		PH 10.5		4313 4313		R				FUEL 7		50		34		1400		54		58			
FEET CUT OFF		I.D. O.D.		SER. NO. 09-179		SD. CONT. %		4313 4313		R				FUEL 7		50		34		1400		54		58			
PRESENT LENGTH		STB. BODY O.D.		DEPTH OUT		PRESSURE GRADIENT		4313 4313		R				FUEL 7		50		34		1400		54		58			
TON M. OR TRIPS SINCE LAST CUT		STB. BODY O.D.		DEPTH IN				4313 4313		R				FUEL 7		50		34		1400		54		58			
CUMULATIVE TON M. OR TRIPS		RMR. BODY O.D.		TOTAL FTG.		MUD & CHEMICALS ADDED		4313 4313		R				FUEL 7		50		34		1400		54		58			
NO. OF DAYS FROM SPUD		SUBS 2.59		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		4313 4313		R				FUEL 7		50		34		1400		54		58			
CUMULATIVE ROTATING HRS.		BIT OR C.B.		COND. OF BIT				4313 4313		R				FUEL 7		50		34		1400		54		58			
		KELLY DOWN		REAMER NO.		DRILLER		4313 4313		R				FUEL 7		50		34		1400		54		58			
		TOTAL		REAMER TYPE		Dane Ferguson		4313 4313		R				FUEL 7		50		34		1400		54		58			
		WT. OF STRING						4313 4313		R				FUEL 7		50		34		1400		54		58			
		110.000 LBS.						4313 4313		R				FUEL 7		50		34		1400		54		58			



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

[illegible]

DATE MARCH 30, 1971

A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 17

DATE MARCH 29, 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE											
CANADIAN DEHLI		CANADIAN DECKME FT. AL. POLICE IS		1-66		POLICE IS		FORT NORMAN		N.W.T.											
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS					
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	6 1/4 O.D.	6 1/4 O.D.	1. FMSC 14500 16 2. FMSC 14500 16				8 1/2	MM		18	665	1330	652	425 GEL 290 GEL					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S REPRESENTATIVE																	
TIME DISTRIBUTION-HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
MORN DAY EVE		NO. STANDS D.P. 327763 FT.		BIT NO. RR-6		TIME 2:00 4:00 6:00		FROM 3863 TO 3911				50		15		1400		5 1/2		58	
RIG UP & TEAR DOWN		1 SINGLES D.P. 3134 FT.		SIZE 7 1/8		WEIGHT 9.1 9.1 9.1															
DRILLING ACTUAL 7 1/2 7 3/4 1 1/4		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 50 47 47															
REAMING		I.D. O.D. 532.12 FT.		TYPE J-44		W.L.-C.C. 8.8 8.8 8.8															
CONDITIONING MUD & CIRCULATING		D.C. 6 1/4		NOZZLE NO. 3		FLTR. CK. 3/32 3/32 3/32															
TRIPS		I.D. O.D. 532.12 FT.		SIZE 11		PH 10.5 10.5 10.5															
LUBRICATE RIG 1/4 1/4 1/4		STB. BODY O.D. 5.72 FT.		SER. NO. DB179		SD. CONT. %															
DEVIATION SURVEY 1/2 1/2 1/2		STB. BODY O.D. 5.72 FT.		DEPTH OUT 3911		PRESSURE GRADIENT															
TEST B.O.P.		RMR. BODY O.D. 5.72 FT.		DEPTH IN 3782																	
CUT OFF DRILLING LINE		SUBS 2.59 FT.		TOTAL FTG. 179		MUD & CHEMICALS ADDED															
REPAIR RIG		BIT OR C.B. .65 FT.		TOTAL HR. RUN 233		TYPE AMT. TYPE AMT.															
CORING		KELLY DOWN 41.00 FT.		COND. OF BIT 0/3																	
WIRE LINE LOGGING		TOTAL 3911 FT.		REAMER NO.																	
RUNNING CASING & CEMENTING		WT. OF STRING 102,000 LBS.		REAMER TYPE																	
WAITING ON CEMENT																					
DRILL STEM TEST																					
OTHER																					
FISHING																					
COMPLETION WORK																					
A. PERFORATING																					
B. TUBING TRIPS																					
C. SWABBING																					
D. TESTING																					
E. ADDITIONAL																					
TOTALS 8 8 8																					
TIME SUMMARY (OFFICE USE ONLY)																					
DAY WORK																					
MRS. W/DP																					
MRS. WD/DP																					
MRS. STANDBY																					
TOTAL DAY WORK																					
WIRE LINE RECORD																					
REEL NO. 8																					
NO. OF LBS. 8																					
FEET SLIPPED																					
FEET CUT OFF																					
PRESENT LENGTH																					
TON M. OR TRIPS SINCE LAST CUT																					
CUMULATIVE TON M. OR TRIPS																					
NO. OF DAYS FROM SPUD																					
CUMULATIVE ROTATING HRS.																					
17																					



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DATE MARCH 26 1971

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 15

DATE MARCH 27, 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																			
CANADIAN DELTA		CANDEL DECKME ET AL POLICE 15		1-66		POLICE 15		FORT NORMAN		N.W.T.																			
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS															
Jennings International Drilling		9	2 4 4	6 4 O.D.	1. FMSCO 24500 16"		8 7/8	MM		18	665	1330	652	425 - CEMENT															
A Division of Western Electronics & Engineering Ltd.			TYPE THD. XH		2. FMSCO 24500 16"									270 GEL															
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																											
George Luchan		George Luchan																											
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE 21'		DR. D RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000 #		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
MORN DAY EVE		33		STANDS D.P. 3109.15 FT.		BIT NO. 7		TIME 12:00 4:00 6:00		FROM 3699 TO 3720		D				FUEL -		50		10M		1400		5 1/2		58			
RIG UP & TEAR DOWN		1		SINGLES D.P. 3157 FT.		SIZE 7 7/8		WEIGHT 9.1 9.1 9.1																					
DRILLING ACTUAL 7 3/4 7 1/2 7 1/2		18		I.D. O.D. 532.12 FT.		MFG. H.W.		VISC.-SEC 42 40 40																					
REAMING				D.C.		TYPE WDR		W.L.-C.C. 8.8 8.8 8.8																					
CONDITIONING MUD & CIRCULATING				I.D. O.D. FT.		NO. 3		FLTR. CK. 3/32 3/32 3/32																					
TRIPS				STB. BODY O.D. FT.		NOZZLE SIZE 11		PH 10.5 10.5 10.5																					
LUBRICATE RIG 1/4 1/4 1/4		1		STB. BODY O.D. 572 FT.		SER. NO. 29321		SD. CONT. %																					
DEVIATION SURVEY 1/4 1/4				RMR. BODY O.D. FT.		DEPTH OUT 3722		PRESSURE GRADIENT																					
TEST B.O.P.		1		SUBS 2.59 FT.		DEPTH IN 3689																							
CUT OFF DRILLING LINE				BIT ORG. 65 FT.		TOTAL FTG. 31		MUD & CHEMICALS ADDED																					
REPAIR RIG				KELLY DOWN 39.00 FT.		COND. OF BIT OB		TYPE AMT. TYPE AMT.																					
CORING				TOTAL 3720 FT.		REAMER NO.		DRILLER Brian Ladaway																					
WIRE LINE LOGGING				WT. OF STRING 100,000 LBS.		REAMER TYPE																							
RUNNING CASING & CEMENTING																													
WAITING ON CEMENT																													
DRILL STEM TEST																													
OTHER																													
FISHING																													
COMPLETION WORK																													
A. PERFORATING																													
B. TUBING TRIPS																													
C. STABBING																													
D. TESTING																													
E. ADDITIONAL																													
TOTALS 8 7/8 8																													
TIME SUMMARY (OFFICE USE ONLY)																													
DAY WORK																													
HRS. W/DP																													
HRS. NO/DP																													
HRS. STANDBY																													
TOTAL DAY WORK																													
WIRE LINE RECORD																													
REEL NO.																													
NO. OF LINES 8 SIZE 1 1/2																													
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON M. OR TRIPS SINCE LAST CUT																													
CUMULATIVE TON M. OR TRIPS																													
NO. OF DAYS FROM SPUD																													
CUMULATIVE ROTATING HRS.																													



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

REPORT NO. 14 DATE MARCH 36, 1971

Operator: CANADIAN DELHI
Contractor: Jennings International Drilling
Rig No.: 9
Signature of Operator's Representative: [Signature]
Signature of Contractor's Tool Pusher: [Signature]
Well No.: 1-66
Field or Dist.: POLICE IS.
County: FORT NORMAN
State: N.W.T.
Pumps: EMSCO DA-500 16
Size: 8 5/8 MM
Make: 18
Feet: 665
RKB to Csg. Hd.: 13.80
Set At: 652
Remarks: 425 CEMENT 270 BEL
Time Distribution - Hours: [Table]
Mud Record: [Table]
Footage: 52'
Formation: 3' FUEL
Rotary RPM: 50
WT. ON BIT: 20
Pump Press: 1400
Pump No.: 58
Deviation Record: 3598 9°
Details of Operations in Sequence and Remarks: [Text]
Mud & Chemicals Added: [Table]
Driller: Brian Ladaway
Mud Record: [Table]
Footage: 32
Formation: [Blank]
Rotary RPM: 50
WT. ON BIT: 10
Pump Press: 1400
Pump No.: 58
Deviation Record: 3651 9 1/4°
Details of Operations in Sequence and Remarks: [Text]
Mud & Chemicals Added: [Table]
Driller: Dave Frykholm
Mud Record: [Table]
Footage: 10
Formation: [Blank]
Rotary RPM: 50
WT. ON BIT: 10
Pump Press: 1400
Pump No.: 58
Deviation Record: 3679 10°
Details of Operations in Sequence and Remarks: [Text]
Mud & Chemicals Added: [Table]
Driller: Brian Ladaway



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 13

DATE MARCH 25, 1971

OPERATOR		LEASE		WELL NO.	FIELD OR DIST.	COUNTY	STATE																
CANADIAN DELHI		CANDEL DEKMA ETAL POLICE IS		4-66	POLICE IS	FORT NORMAN	N.W.T.																
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER																
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2 4 5	6 5 O.D.	NO. MANUFACTURER TYPE STROKE LENGTH		SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT REMARKS																
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. EMSCO DA 500 16		8 5/8 MM 18 665 1330 652 475 - CEMENT																	
				2. EMSCO DA 500 16		290 - GEL																	
				3.																			
TIME DISTRIBUTION-HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD RUN							
MORN DAY EVE		NO.	STANDS D.P.	BIT NO.	TIME	WEIGHT	VISC.-SEC	W.L.-C.C.	FLTR. CK.	PH	SD. CONT. %	PRESSURE GRADIENT	FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE S.P.M.	PUMP NO. 2 LINER SIZE S.P.M.	METHOD RUN SGL. S. PART. P. COM. D.C.	
RIG UP & TEAR DOWN		31	2921.42 FT.	6	2:00 4:00 6:00	8.9	35	8.4	3/32	10.5			3469	3490	1	RIG SERVICE + CHECK B.O.P.	40	25	1600	5 1/2	47		
DRILLING ACTUAL		18	532.12 FT.	7 3/8		8.9	35	8.4	3/32	10.5						SURVEY @ 3442 5 1/2"	50	25	1400	5 1/2	58		
REAMING																							
COMPLETION WORK & CIRCULATING																							
TRIPS																							
LUBRICATE RIG																							
DEVIATION SURVEY																							
TEST B.O.P.																							
CUT OFF DRILLING LINE																							
REPAIR RIG																							
CORING																							
WIRE LINE LOGGING																							
RUNNING CASING & CEMENTING																							
WAITING ON CEMENT																							
DRILL STEM TEST																							
OTHER																							
FISHING																							
COMPLETION WORK																							
A. PERFORATING																							
B. TUBING TRIPS																							
C. FISHING																							
D. TESTING																							
E. ADDITIONAL																							
TOTALS		8	8	8																			
TIME SUMMARY (OFFICE USE ONLY)																							
DAY WORK																							
MRS. W/D																							
MRS. W/D/P																							
MRS. STANDBY																							
TOTAL DAY WORK																							
WIRE LINE RECORD																							
REEL NO.																							
NO. OF LINES		8																					
FEET SLIPPED																							
FEET CUT OFF																							
PRESENT LENGTH																							
TON M. OR TRIPS SINCE LAST CUT																							
CUMULATIVE TON M. OR TRIPS																							
NO. OF DAYS FROM SPUD		13																					
CUMULATIVE ROTATING HRS.																							



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 12

DATE MARCH 24, 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE									
CANADIAN DELHI		CANDEL DECKING FTAL POLICE IS.		A-66		POLICE IS.		FOOT NORMAN		U.W.I.									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & CR.	NO. JOINTS	FEET	RKE. TO CSG. HD.	SET AT	REMARKS				
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2 4 1/2	6 1/2	XH	1. EMSCO DA500 16 2. EMSCO DA500 16		8 1/2	MM	18	18	665	1330	652	425 CEMENT 290 GEL				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO.		METHOD RUN			
George Luchman		George Luchman		TIME 1:00 WEIGHT 9.2 VISC.-SEC 62 W.L.-C.C. FLTR. CK. PH SD. CONT. % PRESSURE GRADIENT		FROM TO 12:00 12:15 1/4 12:15 1:30 1 1/2 1:30 3:00 1 1/2 3:00 4:30 1 1/2 4:30 6:00 1 1/2 6:00 8:00 2		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS RIG SERVICE + CHECK B.O.P.s CIR + CONDITION MUD HOIST BIT #5 MAKE UP DST #3 RUN IN WITH DST #3 TESTING		DEPTH DEV. DIRECTION 12:00 12:15 1/4 12:15 1:30 1 1/2 1:30 3:00 1 1/2 3:00 4:30 1 1/2 4:30 6:00 1 1/2 6:00 8:00 2		DEPTH DEV. DIRECTION 12:00 12:15 1/4 12:15 1:30 1 1/2 1:30 3:00 1 1/2 3:00 4:30 1 1/2 4:30 6:00 1 1/2 6:00 8:00 2		PUMP NO. 1 PUMP NO. 2		METHOD RUN SOL. 5 PAR. 1 COM. 2			
TIME DISTRIBUTION-HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP NO.		METHOD RUN	
MORN CAY EVE		NO. STANDS D.P. 2826.85 FT.		BIT NO. 5		TIME 1:00		FROM TO		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		DEPTH DEV. DIRECTION		DEPTH DEV. DIRECTION		PUMP NO. 1 PUMP NO. 2		METHOD RUN SOL. 5 PAR. 1 COM. 2	
RIG UP & TEAR DOWN		2 SINGLES D.P. 63.01 FT.		SIZE 7 3/8		WEIGHT 9.2		12:00 12:15 1/4		RIG SERVICE + CHECK B.O.P.s		12:00 12:15 1/4		12:15 1:30 1 1/2		1:30 3:00 1 1/2		3:00 4:30 1 1/2	
DRILLING ACTUAL		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 62		12:15 1:30 1 1/2		CIR + CONDITION MUD		12:15 1:30 1 1/2		1:30 3:00 1 1/2		3:00 4:30 1 1/2		4:30 6:00 1 1/2	
MEANING		16 I.D. O.D. 472.85 FT.		TYPE X55R		W.L.-C.C.		1:30 3:00 1 1/2		HOIST BIT #5		1:30 3:00 1 1/2		3:00 4:30 1 1/2		4:30 6:00 1 1/2		6:00 8:00 2	
CONDITIONING MUD & CIRCULATING		D.C.		NO. 3		FLTR. CK.		3:00 4:30 1 1/2		MAKE UP DST #3		3:00 4:30 1 1/2		4:30 6:00 1 1/2		4:30 6:00 1 1/2		6:00 8:00 2	
TRIPS		I.D. O.D. 572 FT.		NOZZLE SIZE 11		PH		4:30 6:00 1 1/2		RUN IN WITH DST #3		4:30 6:00 1 1/2		6:00 8:00 2		6:00 8:00 2		8:00 9:00 1	
LUBRICATE RIG		STB. BODY O.D. 572 FT.		SER. NO. 28874		SD. CONT. %		6:00 8:00 2		TESTING		6:00 8:00 2		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
DEVIATION SURVEY		STB. BODY O.D.		DEPTH OUT 3392		PRESSURE GRADIENT		8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
TEST B.O.P.		RMR. BODY O.D.		DEPTH IN 3265				9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
CUT OFF DRILLING LINE		SUBS. O.D. 2.59 FT.		TOTAL FTG. 227		MUD & CHEMICALS ADDED		10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
REPAIR RIG		BIT OR C.B. 65 FT.		TOTAL HR. RUN 27 1/2		TYPE AMT. TYPE AMT.		11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
CORING		KELLY DOWN 20.00 FT.		COND. OF BIT 1-1-1		REFL 3000#		12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
WIRE LINE LOGGING		TOTAL 3392 FT.		REAMER NO.		DUB 36A		1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
RUNNING CASING & CEMENTING		WT. OF STRING 90,000 LBS.		REAMER TYPE		DRILLER Brian Ladaway		2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
WAITING ON CEMENT								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	
DRILL STEM TEST		2 1/4						4:00 5:00 1				4:00 5:00 1		5:00 6:00 1		5:00 6:00 1		6:00 7:00 1	
OTHER		1 1/2 2 1/2						5:00 6:00 1				5:00 6:00 1		6:00 7:00 1		6:00 7:00 1		7:00 8:00 1	
FISHING								6:00 7:00 1				6:00 7:00 1		7:00 8:00 1		7:00 8:00 1		8:00 9:00 1	
A. PERFORATING								7:00 8:00 1				7:00 8:00 1		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
B. TUBING TRIPS								8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
C. SWABBING								9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
D. TESTING								10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
E. ADDITIONAL								11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
TOTALS		8 8 8						12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
TIME SUMMARY (OFFICE USE ONLY)								1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
DAY WORK								2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
HRS. W/D								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	
HRS. W/D/P								4:00 5:00 1				4:00 5:00 1		5:00 6:00 1		5:00 6:00 1		6:00 7:00 1	
HRS. STANDBY								5:00 6:00 1				5:00 6:00 1		6:00 7:00 1		6:00 7:00 1		7:00 8:00 1	
TOTAL DAY WORK								6:00 7:00 1				6:00 7:00 1		7:00 8:00 1		7:00 8:00 1		8:00 9:00 1	
WIRE LINE RECORD								7:00 8:00 1				7:00 8:00 1		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
REEL NO.								8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
NO. OF LINES 8 SIZE 1 1/2								9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
FEET SLIPPED								10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
FEET CUT OFF								11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
PRESENT LENGTH								12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
TON MI. OR TRIPS SINCE LAST CUT								1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
CUMULATIVE TON MI. OR TRIPS								2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
NO. OF DAYS FROM SPUD								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	
CUMULATIVE ROTATING HRS.								4:00 5:00 1				4:00 5:00 1		5:00 6:00 1		5:00 6:00 1		6:00 7:00 1	
								5:00 6:00 1				5:00 6:00 1		6:00 7:00 1		6:00 7:00 1		7:00 8:00 1	
								6:00 7:00 1				6:00 7:00 1		7:00 8:00 1		7:00 8:00 1		8:00 9:00 1	
								7:00 8:00 1				7:00 8:00 1		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
								8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
								9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
								10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
								11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
								12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
								1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
								2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	
								4:00 5:00 1				4:00 5:00 1		5:00 6:00 1		5:00 6:00 1		6:00 7:00 1	
								5:00 6:00 1				5:00 6:00 1		6:00 7:00 1		6:00 7:00 1		7:00 8:00 1	
								6:00 7:00 1				6:00 7:00 1		7:00 8:00 1		7:00 8:00 1		8:00 9:00 1	
								7:00 8:00 1				7:00 8:00 1		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
								8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
								9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
								10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
								11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
								12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
								1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
								2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	
								4:00 5:00 1				4:00 5:00 1		5:00 6:00 1		5:00 6:00 1		6:00 7:00 1	
								5:00 6:00 1				5:00 6:00 1		6:00 7:00 1		6:00 7:00 1		7:00 8:00 1	
								6:00 7:00 1				6:00 7:00 1		7:00 8:00 1		7:00 8:00 1		8:00 9:00 1	
								7:00 8:00 1				7:00 8:00 1		8:00 9:00 1		8:00 9:00 1		9:00 10:00 1	
								8:00 9:00 1				8:00 9:00 1		9:00 10:00 1		9:00 10:00 1		10:00 11:00 1	
								9:00 10:00 1				9:00 10:00 1		10:00 11:00 1		10:00 11:00 1		11:00 12:00 1	
								10:00 11:00 1				10:00 11:00 1		11:00 12:00 1		11:00 12:00 1		12:00 1:00 1	
								11:00 12:00 1				11:00 12:00 1		12:00 1:00 1		12:00 1:00 1		1:00 2:00 1	
								12:00 1:00 1				12:00 1:00 1		1:00 2:00 1		1:00 2:00 1		2:00 3:00 1	
								1:00 2:00 1				1:00 2:00 1		2:00 3:00 1		2:00 3:00 1		3:00 4:00 1	
								2:00 3:00 1				2:00 3:00 1		3:00 4:00 1		3:00 4:00 1		4:00 5:00 1	
								3:00 4:00 1				3:00 4:00 1		4:00 5:00 1		4:00 5:00 1		5:00 6:00 1	

DATE MARCH 23 1971

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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 10

DATE MARCH 22/1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																	
CANADIAN DELHI		UNDEVELOPED POLICE ISLAND		1060		POLICE ISLAND		FORT NORMAN		N.W.T.																	
CONTRACTOR		RIG NO.	DRILL PIPE	TOOL JOINT	PUMPS		SIZE	MAKE	WT. & CR.	NO. JOINTS	FEET	RKB. TO CS. NO.	SET AT	REMARKS													
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2 1/2"	6 1/4" O.D.	1. EMSCO DA500 16 2. EMSCO DA500 16		8 7/8" M.M.		18	663	1652	425	585	CONST. Plus 29' cat													
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																									
for [Signature]																											
TIME DISTRIBUTION-HOURS		MORN		DAY		EVE																					
RIG UP & TEAR DOWN																											
DRILLING ACTUAL		6 1/4		7 5/5																							
REAMING																											
CONDITIONING MJD & CIRCULATING																											
TRIPS		1		5 2 1/4																							
LUBRICATE RIG		1/4		5 1/2																							
DEVIATION SURVEY		1/4		5																							
TEST B.O.P.																											
CUT OFF DRILLING LINE																											
REPAIR RIG																											
CORING																											
WIRE LINE LOGGING																											
RUNNING CASING & CEMENTING																											
WAITING ON CEMENT																											
DRILL STEM TEST																											
OTHER		1/4		1/2																							
FISHING																											
COMPLETION WORK																											
A. PERFORATING																											
B. TUBING TRIPS																											
C. SWABING																											
D. TESTING																											
E. ADDITIONAL																											
TOTALS		8		8		8																					
TIME SUMMARY (OFFICE USE ONLY)																											
DAY WORK																											
HRS. W/DP																											
HRS. WO/DP																											
HRS. STANDBY																											
TOTAL DAY WORK																											
WIRE LINE RECORD																											
REEL NO.																											
NO. OF LINES		8		SIZE 1 1/8																							
FEET SLIPPED																											
FEET CUT OFF																											
PRESENT LENGTH																											
TON MI. OR TRIPS SINCE LAST CUT																											
CUMULATIVE TON MI. OR TRIPS																											
NO. OF DAYS FROM SPUD		10																									
CUMULATIVE ROTATING HRS.																											
NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D R.M.-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN SOL-S PART-L-P COMD-C	
28		STANDS D.P. 2639.00 FT.		BIT NO. RR4		TIME 9:30 12:00 2:00		FROM 3122 TO 3165		D						80		20		1400		5 1/2		58			
1		SINGLES D.P. 31.50 FT.		SIZE 7 7/8		WEIGHT 9.5 9.4 9.4																					
16		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 50 51 44																					
1		I.D. O.D. 472.85 FT.		TYPE XU		W.L.-C.C. 7.8 7.9 7.9																					
1		D.C. 6 1/4		NOZZLE NO. 3		FLTR. CK 3/32 3/32 3/32																					
1		I.D. O.D. 5.72 FT.		SER. NO. 17586		PH 11.0 11.0 11.0																					
1		STB. BODY O.D. 5.72 FT.		DEPTH OUT 3165		SD. CONT. %																					
1		STB. BODY O.D. 2.59 FT.		DEPTH IN 2985		PRESSURE GRADIENT																					
1		RMR. BODY O.D. 2.59 FT.		TOTAL FTG. 18.0		MUD & CHEMICALS ADDED																					
1		SUBS. BIT OR C.B. 6.5 FT.		TOTAL HR. RUN 13 1/2		TYPE AMT. TYPE AMT.																					
1		KELLY DOWN 14.00 FT.		COND. OF BIT ?		DAUSTIC 100#																					
1		TOTAL 3165 FT.		REAMER NO.		PELTER 200#																					
1		WT. OF STRING 86,000 LBS.		REAMER TYPE		DRILLER Brian Sadovny																					
28		STANDS D.P. 2639.00 FT.		BIT NO. RR4		TIME 9:00 10:00		FROM 3165 TO 3206		D						80		20		1420		5 1/2		60			
2		SINGLES D.P. 63.18 FT.		SIZE 7 7/8		WEIGHT 9.5 9.5																					
16		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 38 38																					
1		I.D. O.D. 472.85 FT.		TYPE XU		W.L.-C.C. 7.4 7.5																					
1		D.C. 6 1/4		NOZZLE NO. 3		FLTR. CK 3/32 3/32																					
1		I.D. O.D. 5.72 FT.		SER. NO. 17586		PH 11.0 11.5																					
1		STB. BODY O.D. 5.72 FT.		DEPTH OUT 3165		SD. CONT. %																					
1		STB. BODY O.D. 2.59 FT.		DEPTH IN 2985		PRESSURE GRADIENT																					
1		RMR. BODY O.D. 2.59 FT.		TOTAL FTG. 18.0		MUD & CHEMICALS ADDED																					
1		SUBS. BIT OR C.B. 6.5 FT.		TOTAL HR. RUN 3 1/2		TYPE AMT. TYPE AMT.																					
1		KELLY DOWN 22.01 FT.		COND. OF BIT 1-1		GEL 1/2																					
1		TOTAL 3206 FT.		REAMER NO.		DRILLER Dave Fyfe																					
1		WT. OF STRING 86,000 LBS.		REAMER TYPE																							
28		STANDS D.P. 2639.00 FT.		BIT NO. RR4		TIME 9:00 10:00		FROM 3165 TO 3206		D						80		20		1420		5 1/2		60			
2		SINGLES D.P. 63.18 FT.		SIZE 7 7/8		WEIGHT 9.5 9.5																					
16		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 38 38																					
1		I.D. O.D. 472.85 FT.		TYPE XU		W.L.-C.C. 7.4 7.5																					
1		D.C. 6 1/4		NOZZLE NO. 3		FLTR. CK 3/32 3/32																					
1		I.D. O.D. 5.72 FT.		SER. NO. 17586		PH 11.0 11.5																					
1		STB. BODY O.D. 5.72 FT.		DEPTH OUT 3165		SD. CONT. %																					
1		STB. BODY O.D. 2.59 FT.		DEPTH IN 2985		PRESSURE GRADIENT																					
1		RMR. BODY O.D. 2.59 FT.		TOTAL FTG. 18.0		MUD & CHEMICALS ADDED																					
1		SUBS. BIT OR C.B. 6.5 FT.		TOTAL HR. RUN 3 1/2		TYPE AMT. TYPE AMT.																					
1		KELLY DOWN 22.01 FT.		COND. OF BIT 1-1		GEL 1/2																					
1		TOTAL 3206 FT.		REAMER NO.		DRILLER Dave Fyfe																					
1		WT. OF STRING 86,000 LBS.		REAMER TYPE																							
28		STANDS D.P. 2639.00 FT.		BIT NO. RR4		TIME 9:00 10:00		FROM 3165 TO 3206		D						80		20		1420		5 1/2		60			
2		SINGLES D.P. 63.18 FT.		SIZE 7 7/8		WEIGHT 9.5 9.5																					
16		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 38 38																					
1		I.D. O.D. 472.85 FT.		TYPE XU		W.L.-C.C. 7.4 7.5																					
1		D.C. 6 1/4		NOZZLE NO. 3		FLTR. CK 3/32 3/32																					
1		I.D. O.D. 5.72 FT.		SER. NO. 17586		PH 11.0 11.5																					
1		STB. BODY O.D. 5.72 FT.		DEPTH OUT 3165		SD. CONT. %																					
1		STB. BODY O.D. 2.59 FT.		DEPTH IN 2985		PRESSURE GRADIENT																					
1		RMR. BODY O.D. 2.59 FT.		TOTAL FTG. 18.0		MUD & CHEMICALS ADDED																					
1		SUBS. BIT OR C.B. 6.5 FT.		TOTAL HR. RUN 3 1/2		TYPE AMT. TYPE AMT.																					
1		KELLY DOWN 22.01 FT.		COND. OF BIT 1-1		GEL 1/2																					
1		TOTAL 3206 FT.		REAMER NO.		DRILLER Dave Fyfe																					
1		WT. OF STRING 86,000 LBS.		REAMER TYPE																							



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 9

DATE MARCH 2/1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																			
CHALADIAN DELHI		SANDWICH DECKING FISH POLICE ISLAND		2166		POLICE ISLAND 166		FORT NORMAN		N.W.T.																			
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	G.D.	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS														
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2 1/2	6 1/4	X 4	1. LMSCO DA 500 16" 2. LMSCO DA 500 16"		378 mm		18	665	652	425	575	CONST. Plus 29.00														
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																											
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000 #		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
MORN DAY EVE		25		STANDS D.P. 2256.35 FT.		BIT NO. 4		TIME 2.00 4.00 6.00		FROM 2784 TO 2910						FUEL 2 FT.		75		160		1400		5 1/2		60		5	
RIGUP & TEAR DOWN		1		SINGLES D.P. 31.37 FT.		SIZE 7 3/8		WEIGHT 9 2 9 3 9 3																					
DRILLING ACTUAL		16		D.C. 6 1/4 472.85 FT.		MFG. H.W.		VISC.-SEC 35 37 36																					
REAMING				I.D. O.D. 472.85 FT.		TYPE XV		W.L.-C.C. 12 6																					
CONDITIONING MUD & CIRCULATING		3		D.C.		NO. 3		FLTR. CK. 3/2 3/2 3/2																					
TRIPS		1/4 3/4 1 1/4		I.D. O.D. 5.72 FT.		NOZZLE SIZE 11		PH 11.0 11.0 11.0																					
LUBRICATE RIG		1/4 3/4 1 1/4		STB. BODY O.D. 5.72 FT.		SER. NO. 17586		SD. CONT. %																					
DEVIATION SURVEY		1/4 3/4		STB. BODY O.D. 5.72 FT.		DEPTH OUT		PRESSURE GRADIENT																					
TEST B.O.P.				SUBS. 2.59 FT.		DEPTH IN																							
CUT OFF DRILLING LINE				BIT OR C.B. 65 FT.		TOTAL FTG. 126		MUD & CHEMICALS ADDED																					
REPAIR RIG				TOTAL HR. RUN 7		COND. OF BIT		TYPE AMT. TYPE AMT.																					
CORING				KELLY DOWN 41.00 FT.		REAMER NO.		DRILLER																					
WIRE LINE LOGGING				TOTAL 2910.00 FT.		REAMER TYPE		DRILLER																					
RUNNING CASING & CEMENTING				WT. OF STRING 82.000 LBS.																									
WAITING ON CEMENT																													
DRILL STEM TEST																													
OTHER																													
FISHING																													
COMPLETION WORK																													
A. PERFORATING																													
B. TUBING TRIPS																													
C. SWABBING																													
D. TESTING																													
E. ADDITIONAL																													
TOTALS		8 3 3																											
TIME SUMMARY (OFFICE USE ONLY)																													
DAY WORK																													
HRS. W/DP																													
HRS. WO/DP																													
HRS. STANDBY																													
TOTAL DAY WORK																													
WIRE LINE RECORD																													
REEL NO.																													
NO. OF LINES		8																											
SIZE		1 1/4																											
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON MI. OR TRIPS SINCE LAST CUT																													
CUMULATIVE TON MI. OR TRIPS																													
NO. OF DAYS FROM SPUD		9																											
CUMULATIVE ROTATING HRS.																													



A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 8

DATE MARCH 20 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE													
CANDLER DECKING, INC.		CANDLER DECKING, INC. POLICE ISLAND		166		POLICE ISLAND		FORT NORMAN		N.W.T.													
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS								
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	6 1/4	6 1/4	X.H.	1. LMSCO 2. LMSCO 3. LMSCO		16 1/2	16 1/2	18	665	652	425	565	CONST. Plus 29' CAL								
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER																					
TIME DISTRIBUTION-HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE 124'		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
MORN DAY EVE		NO. STANDS D.P. 3073.16 FT.		BIT NO. 3		TIME 2 A.M. 4 A.M. 6 A.M.		FROM 2506 TO 2630				75		12M		1450		5 1/2		57		S	
RIG UP & TEAR DOWN		2 SINGLES D.P. 63.00 FT.		SIZE 7 1/2		WEIGHT 9 2 9 2 9 2						75		13M		1450		5 1/2		57			
DRILLING ACTUAL		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 30 30 30																	
DRAWING		16 I.D. O.D. 472.85 FT.		TYPE X.H.		Y.L.-C.C.																	
CONDITIONING MUD & CIRCULATING		D.C.		NOZZLE		FLTR. CK.																	
TRIPS		I.D. O.D. FT.		NO. 2 1		PH 10.0 10.0 10.0																	
LUBRICATE RIG		STB. BODY O.D. 5.72 FT.		SER. NO. 28915		SD. CONT. %																	
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																	
TEST B.O.P.		STB. BODY O.D. FT.		DEPTH IN																			
CUT OFF DRILLING LINE		RMR. BODY O.D. FT.		TOTAL FTG. 2345																			
REPAIR RIG		SUBS. BODY O.D. FT.		TOTAL HR. RUN 16 1/4																			
CORING		BIT OR C.B. FT.		COND. OF BIT																			
WIRE LINE LOGGING		KELLY DOWN 1203.00 FT.		REAMER NO.																			
RUNNING CASING & CEMENTING		TOTAL 2630.00 FT.		REAMER TYPE																			
WAITING ON CEMENT		WT. OF STRING 80,000 LBS.																					
DRILL STEM TEST																							
OTHER																							
FISHING																							
A. PERFORATING																							
B. TUBING TRIPS																							
C. SWABBING																							
D. TESTING																							
E. ADDITIONAL																							
TOTALS		8 8 8																					
TIME SUMMARY (OFFICE USE ONLY)																							
DAY WORK																							
HRS. W/DP																							
HRS. WO/DP																							
HRS. STANDBY																							
TOTAL DAY WORK																							
WIRE LINE RECORD																							
REEL NO.																							
NO. OF LINES		83		SIZE 1 7/8																			
FEET SLIPPED																							
FEET CUT OFF																							
PRESENT LENGTH																							
TOM M. OR TRIPS SINCE LAST CUT																							
CUMULATIVE TOM M. OR TRIPS																							
NO. OF DAYS FROM SPUD		8																					
CUMULATIVE ROTATING HRS.																							

DATE MARCH 19 1971

Operator: CANADIAN DELHI
Contractor: Jennings International Drilling
A Division of Western Electronics & Engineering Ltd.
Signature of Operator's Representative: [Signature]
Rig No.: 9
Drilling Assembly: 17 STANDS D.P. 1771.58 FT.
Bit Record: 1 SINGLES D.P. 30.95 FT.
Mud Record: TIME 12.00 2.00 3.00
Footage: 2345
Formation: Fuel 4 1/2 FT.
Mud & Chemicals Added: GEL 4000#
Driller: [Signature]
MORNING TOUR: 17 STANDS D.P. 1771.58 FT.
DAY TOUR: 19 STANDS D.P. 1854.04 FT.
EVENING TOUR: 21 STANDS D.P. 1884.5 FT.
TOTALS: 8 8
WIRE LINE RECORD: REEL NO. 8, NO. OF LINES 8, SIZE 1 1/8
PRESENT LENGTH: 8
TON MILE OR TRIPS SINCE LAST CUT: 8
CUMULATIVE TON MILE OR TRIPS: 8
NO. OF DAYS FROM SPUD: 8
CUMULATIVE ROTATING HRS: 8



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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 1

DATE MARCH 18 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE							
CANADIAN DELHI		CANDEL DECKING, ETAL POLICE ISLAND		266		POLICE ISLAND		FORT NORMAN		N.W.T.							
CONTRACTOR		RIG NO.	DRILL PIPE STRIKE	TOOL JOINT	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS			
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	6 1/4	O.D.	1. MSCO D4500 16 2. MSCO D4500 16		3/8	M.H.	18	662	1330	652	425	565 CONST. Plus 29 cal.			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		TYPE THD. X H		LAST CASING TUBING OR LINER											
TIME DISTRIBUTION-HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. 1		PUMP NO. 2		METHOD RUN	
RIG UP & TEAR DOWN		16 STANDS D.P. 1571.40 FT.		BIT NO. 2		TIME 2 AM 4 AM 6 AM		FROM 1936 TO 2094				75 8M 1400 5 1/2 60				S	
DRILLING ACTUAL		16 6 1/4 I.D. O.D. 472.85 FT.		SIZE 7 7/8		WEIGHT 9.4 9.4 9.4											
REAMING		D.C. 6 1/4 I.D. O.D. 472.85 FT.		MFG. H.W.		VISC.-SEC 40 42 45											
CONDITIONING MUD & CIRCULATING		D.C. 6 1/4 I.D. O.D. 472.85 FT.		TYPE X 1/2		W.L.-C.C. 12.0 12.0 12.0											
TRIPS		I.D. O.D. FT.		NOZZLE NO. 2 1		FLTR. CK. 3/32 3/32 3/32		DEVIATION RECORD		DEPTH 1724' 4 3/4		DEPTH 2020' 4 3/4					
LUBRICATE RIG		STB. BODY O.D. 5.72 FT.		SER. NO. 27428		PH 10.0 10.5 10.5		TIME LOG		FROM 12:00 TO 12:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
DEVIATION SURVEY		STB. BODY O.D. 5.72 FT.		DEPTH OUT 27428		SD. CONT. %		FROM 12:15 TO 12:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
TEST B.O.P.		SUBS. BODY O.D. 2.59 FT.		DEPTH IN 1804		PRESSURE GRADIENT		FROM 12:30 TO 12:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
CUT OFF DRILLING LINE		BIT OR C.B. 65 FT.		TOTAL FTG. 290		MUD & CHEMICALS ADDED		FROM 12:45 TO 1:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
REPAIR RIG		KELLY DOWN 41.00 FT.		COND. OF BIT 0/15		GEL. 2000		FROM 1:00 TO 1:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
CORING		TOTAL 2094.64 FT.		REAMER NO.		DU-68 2000		FROM 1:15 TO 1:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
WIRE LINE LOGGING		WT. OF STRING 68.000 LBS.		REAMER TYPE		DRILLER		FROM 1:30 TO 1:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
RUNNING CASING & CEMENTING								FROM 1:45 TO 2:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
WAITING ON CEMENT								FROM 2:00 TO 2:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
DRILL STEM TEST								FROM 2:15 TO 2:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
OTHER								FROM 2:30 TO 2:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FISHING								FROM 2:45 TO 3:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
COMPLETION WORK								FROM 3:00 TO 3:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
A. PERFORATING								FROM 3:15 TO 3:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
B. TUBING TRIPS								FROM 3:30 TO 3:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
C. STABBING								FROM 3:45 TO 4:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
D. TESTING								FROM 4:00 TO 4:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
E. ADDITIONAL								FROM 4:15 TO 4:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
TOTALS		8 88						FROM 4:30 TO 4:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
TIME SUMMARY (OFFICE USE ONLY)								FROM 4:45 TO 5:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
DAY WORK								FROM 5:00 TO 5:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
HRS. W/DP								FROM 5:15 TO 5:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
HRS. W/O/DP								FROM 5:30 TO 5:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
HRS. STANDBY								FROM 5:45 TO 6:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
TOTAL DAY WORK								FROM 6:00 TO 6:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
WIRE LINE RECORD								FROM 6:15 TO 6:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
REEL NO.								FROM 6:30 TO 6:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
NO. OF LINES		8		SIZE 1 1/2				FROM 6:45 TO 7:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FEET SLIPPED								FROM 7:00 TO 7:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
FEET CUT OFF								FROM 7:15 TO 7:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
PRESENT LENGTH								FROM 7:30 TO 7:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
TON M. OR TRIPS SINCE LAST CUT								FROM 7:45 TO 8:00		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
CUMULATIVE TON M. OR TRIPS								FROM 8:00 TO 8:15		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
NO. OF DAYS FROM SPUD		1						FROM 8:15 TO 8:30		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					
CUMULATIVE ROTATING HRS.								FROM 8:30 TO 8:45		ELAPSED TIME 1/4		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS					



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 6

DATE MARCH 17 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE					
CANADIAN DELHI		CANADIAN DECKING ETAL POLICE ISLAND		166		POLICE ISLAND		FORT NORMAN		N.W.T.					
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	WAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	2. 4 1/2	6 1/4	X.H.	1. D4500 16 2. D4500 16		8 3/4	11.11		18	665	652	425 SWS CONST.	Plus 2% C.A.L.
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER													
TIME DISTRIBUTION-HOURS															
MORN DAY EVE															
RIG UP, TEAR DOWN															
DRILLING ACTUAL		1 1/4 5 1/2 1/4													
REAMING															
CONDITIONING MUD & CIRCULATING															
TRIPS		2 3/4													
LUBRICATE RIG		1/4 1/4 1/4													
DEVIATION SURVEY		1/4 1/4 1/4													
TEST B.O.P.															
CUT OFF DRILLING LINE		1/4													
REPAIR RIG															
CORING															
WIRELINE LOGGING															
RUNNING CASING & CEMENTING															
WAITING ON CEMENT															
DRILL STEM TEST															
OTHER															
FISHING															
COMPLETION WORK															
A. PERFORATING															
B. TUBING TRIPS															
C. SWABBING															
D. TESTING															
E. ADDITIONAL															
TOTALS		8 1/2													
TIME SUMMARY (OFFICE USE ONLY)															
DAY WORK															
MRS. W/DP															
MRS. W/O/DP															
MRS. STANDBY															
TOTAL DAY WORK															
WIRE LINE RECORD															
REEL NO.															
NO. OF LINES		8													
SIZE		1 1/2													
FEET SLIPPED															
FEET CUT OFF															
PRESENT LENGTH															
TON M. OR TRIPS SINCE LAST CUT															
CUMULATIVE TON M. OR TRIPS															
NO. OF DAYS FROM SPUD		6													
CUMULATIVE ROTATING HRS.															

NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
12		STANDS D.P. 1130.43 FT.		BIT NO. 1		TIME 12:00 4:00 6:00		FROM 1515 TO 1605		D						80		6.7		1400		5 1/2		60		S	
		SINGLES D.P. 63.02 FT.		SIZE 7 3/8		WEIGHT 9.1 9.1 9.1																					
		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 45 55 50																					
16		I.D. O.D. 472.85 FT.		TYPE X16		W.L.-C.C. 11.2 11.2 11.2																					
		D.C.		NO. 2 1		FLTR. CK. 3/32 3/32 3/32																					
		I.D. O.D. FT.		NOZZLE SIZE 11 10		PH 10.5 10.5 10.5																					
		STB. BODY O.D. FT.		SER. NO. 29403		SD. CONT. %																					
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																					
		RMR. BODY O.D. FT.		DEPTH IN																							
		SUBS. 2.59 FT.		TOTAL FTG. 1040		MUD & CHEMICALS ADDED																					
		BIT OR C.B. 65 FT.		TOTAL HR. RUN 25 1/4		TYPE AMT. TYPE AMT.																					
		KELLY DOWN 35.56 FT.		COND. OF BIT 0/B		Hydral 1000																					
		TOTAL 1705.00 FT.		REAMER NO.		DU-68 290																					
		WT. OF STRING 60 m LBS.		REAMER TYPE		DRILLER Ted Benjamin																					

NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
13		STANDS D.P. 1225.08 FT.		BIT NO. 1		TIME 10:00 12:00 1:00		FROM 1705 TO 1804		D						80		6		1400		5 1/2		60		S	
		SINGLES D.P. 62.81 FT.		SIZE 7 3/8		WEIGHT 9.1 9.1 9.1																					
		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 40 51 52																					
16		I.D. O.D. 472.85 FT.		TYPE X16		W.L.-C.C. 12.4 12.6 12.6																					
		D.C.		NO. 2 1		FLTR. CK. 3/32 3/32 3/32																					
		I.D. O.D. FT.		NOZZLE SIZE 11 10		PH 9.5 10.5 10.5																					
		STB. BODY O.D. FT.		SER. NO. 29403		SD. CONT. %																					
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																					
		RMR. BODY O.D. FT.		DEPTH IN																							
		SUBS. 2.59 FT.		TOTAL FTG. 1139		MUD & CHEMICALS ADDED																					
		BIT OR C.B. 65 FT.		TOTAL HR. RUN 31		TYPE AMT. TYPE AMT.																					
		KELLY DOWN 41.00 FT.		COND. OF BIT 421		GEL 2000																					
		TOTAL 1804 FT.		REAMER NO.		DU68 260																					
		WT. OF STRING 62,000 LBS.		REAMER TYPE		DRILLER Brian Sadoway																					

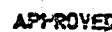
NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
16		STANDS D.P. 1413.57 FT.		BIT NO. 2		TIME 6:30 8:00		FROM 1804 TO 1936		D						75		6.1		1400		5 1/2		60		S	
		SINGLES D.P. FT.		SIZE 7 3/8		WEIGHT 9.2 9.3																					
		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 45 38																					
16		I.D. O.D. 472.85 FT.		TYPE X16		W.L.-C.C.																					
		D.C.		NO. 2 1 2 1		FLTR. CK.																					
		I.D. O.D. FT.		NOZZLE SIZE 10 11 10 11		PH																					
		STB. BODY O.D. FT.		SER. NO. 29428		SD. CONT. %																					
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																					
		RMR. BODY O.D. FT.		DEPTH IN																							
		SUBS. 2.59 FT.		TOTAL FTG. 132		MUD & CHEMICALS ADDED																					
		BIT OR C.B. 65 FT.		TOTAL HR. RUN 5 1/2		TYPE AMT. TYPE AMT.																					
		KELLY DOWN 41.00 FT.		COND. OF BIT 0/B		CAUSE 100																					
		TOTAL 1936.00 FT.		REAMER NO.		DRILLER Ted Benjamin																					
		WT. OF STRING 66,000 LBS.		REAMER TYPE																							

NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
16		STANDS D.P. 1413.57 FT.		BIT NO. 2		TIME 6:30 8:00		FROM 1804 TO 1936		D						75		6.1		1400		5 1/2		60		S	
		SINGLES D.P. FT.		SIZE 7 3/8		WEIGHT 9.2 9.3																					
		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 45 38																					
16		I.D. O.D. 472.85 FT.		TYPE X16		W.L.-C.C.																					
		D.C.		NO. 2 1 2 1		FLTR. CK.																					
		I.D. O.D. FT.		NOZZLE SIZE 10 11 10 11		PH																					
		STB. BODY O.D. FT.		SER. NO. 29428		SD. CONT. %																					
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																					
		RMR. BODY O.D. FT.		DEPTH IN																							
		SUBS. 2.59 FT.		TOTAL FTG. 132		MUD & CHEMICALS ADDED																					
		BIT OR C.B. 65 FT.		TOTAL HR. RUN 5 1/2		TYPE AMT. TYPE AMT.																					
		KELLY DOWN 41.00 FT.		COND. OF BIT 0/B		CAUSE 100																					
		TOTAL 1936.00 FT.		REAMER NO.		DRILLER Ted Benjamin																					
		WT. OF STRING 66,000 LBS.		REAMER TYPE																							

NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
16		STANDS D.P. 1413.57 FT.		BIT NO. 2		TIME 6:30 8:00		FROM 1804 TO 1936		D						75		6.1		1400		5 1/2		60		S	
		SINGLES D.P. FT.		SIZE 7 3/8		WEIGHT 9.2 9.3																					
		D.C. 6 1/4		MFG. H.W.		VISC.-SEC 45 38																					
16		I.D. O.D. 472.85 FT.		TYPE X16		W.L.-C.C.																					
		D.C.		NO. 2 1 2 1		FLTR. CK.																					
		I.D. O.D. FT.		NOZZLE SIZE 10 11 10 11		PH																					
		STB. BODY O.D. FT.		SER. NO. 29428		SD. CONT. %																					
		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT																					
		RMR. BODY O.D. FT.		DEPTH IN																							
		SUBS. 2.59 FT.		TOTAL FTG. 132		MUD & CHEMICALS ADDED																					
		BIT OR C.B. 65 FT.		TOTAL HR. RUN 5 1/2		TYPE AMT. TYPE AMT.																					
		KELLY DOWN 41.00 FT.		COND. OF BIT 0/B		CAUSE 100																					
		TOTAL 1936.00 FT.		REAMER NO.		DRILLER Ted Benjamin																					
		WT. OF STRING 66,000 LBS.		REAMER TYPE																							

NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. 1		PUMP NO.		METHOD RUN	
16		STANDS D.P. 1413.57 FT.		BIT NO. 2		TIME 6:30 8:00		FROM 1804 TO 1936		D						75		6.1		1400		5 1/2		60		S	
		SINGLES D.P. FT.		SIZE 7 3/8		WEIGHT 9.2 9.3																					

DATE MARCH 16 1971



A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT										REPORT NO. 4		DATE APR 15, 1971			
OPERATOR CANADIAN DELTA				LEASE PRICE ISLAND 2-66				WELL NO.		FIELD OR DIST.		COUNTY HUTCHINSON		STATE N.W.T.	
CONTRACTOR Jennings International Drilling A Division of Western Electronics & Engineering Ltd.				RIG NO. 9		DRILL PIPE STRING NO. 2 SIZE 4 1/2		TOOL JOINT 10 1/4 O.D. TYPE THD. XH		PUMPS		LAST CASING TUBING OR LINER		REMARKS 425 SACKS OF CEMENT 2% GEL	
SIGNATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S TOOL PUSHER George L. ...				1. KINSEU 2500 16"		2. KINSEU 2500 16"		3.			
TIME DISTRIBUTION-HOURS				NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. / PUMP NO.	
MORN DAY EVE				STANDS D.P. FT.		BIT NO.		TIME		FROM TO		ROTARY RPM		PUMP PRESS	
RIG UP & TEAR DOWN				SINGLES D.P. FT.		SIZE		WEIGHT							
DRILLING ACTUAL				D.C.		MFG.		VISC.-SEC							
REAMING				I.D. O.D. FT.		TYPE		W.L.-C.C.							
CONDITIONING MUD & CIRCULATING				D.C.		NO. NOZZLE		FLTR. CK.		DEVIATION RECORD		DEPTH		DEVIATION	
TRIPS				I.D. O.D. FT.		SIZE		PH		TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
LUBRICATE RIG				STB. BODY O.D. FT.		SER. NO.		SD. CONT. %		FROM TO		12:00 12:15 114		R.C. SERVICE	
DEVIATION SURVEY				STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		12:15 12:30 734				WAIT ON CEMENT	
TEST B.O.P.				RMR. BODY O.D. FT.		DEPTH IN									
CUT OFF DRILLING LINE				SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED							
REPAIR RIG				BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.							
CORING				KELLY DOWN FT.		COND. OF BIT									
WIRE LINE LOGGING				TOTAL FT.		REAMER NO.		DRILLER							
RUNNING CASING & CEMENTING				WT. OF STRING LBS.		REAMER TYPE		David Taylor							
WAITING ON CEMENT															
DRILL STEM TEST				NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. / PUMP NO.	
OTHER				STANDS D.P. FT.		BIT NO.		TIME		FROM TO		ROTARY RPM		PUMP PRESS	
FISHING				SINGLES D.P. FT.		SIZE		WEIGHT							
A. PERFORATING				D.C.		MFG.		VISC.-SEC							
B. TUBING TRIPS				I.D. O.D. FT.		TYPE		W.L.-C.C.							
C. SWABBING				D.C.		NO. NOZZLE		FLTR. CK.		DEVIATION RECORD		DEPTH		DEVIATION	
D. TESTING				I.D. O.D. FT.		SIZE		PH		TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
E. ADDITIONAL				STB. BODY O.D. FT.		SER. NO.		SD. CONT. %		FROM TO		8:00 8:30 1 1/2		W.L.O.C.	
TOTALS				STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		9:30 4:00 6 1/2				NIPPLE UP B.O.P.	
TIME SUMMARY (OFFICE USE ONLY)				RMR. BODY O.D. FT.		DEPTH IN								CUT CASING & WELD ON BOWL	
DAY WORK				SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED							
HRS. W/DP				BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.							
HRS. WO/DP				KELLY DOWN FT.		COND. OF BIT									
HRS. STANDBY				TOTAL FT.		REAMER NO.		DRILLER							
				WT. OF STRING LBS.		REAMER TYPE		S. Bryson							
TOTAL DAY WORK				NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		PUMP NO. / PUMP NO.	
WIRE LINE RECORD				STANDS D.P. FT.		BIT NO.		TIME		FROM TO		ROTARY RPM		PUMP PRESS	
REEL NO.				SINGLES D.P. FT.		SIZE		WEIGHT							
NO. OF LINES 8 SIZE 1 1/4				D.C.		MFG.		VISC.-SEC							
FEET SLIPPED				I.D. O.D. FT.		TYPE		W.L.-C.C.							
FEET CUT OFF				D.C.		NO. NOZZLE		FLTR. CK.		DEVIATION RECORD		DEPTH		DEVIATION	
PRESENT LENGTH				I.D. O.D. FT.		SIZE		PH		TIME LOG		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
TON M. OR TRIPS SINCE LAST CUT				STB. BODY O.D. FT.		SER. NO.		SD. CONT. %		FROM TO		4:00 4:15 4		RIG SERVICE	
CUMULATIVE TON M. OR TRIPS				STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT		4:15 9:00 4 3/4				FINISH NIPPLING UP	
NO. OF DAYS FROM SPUD				RMR. BODY O.D. FT.		DEPTH IN				9:00 10:00 1				LEVEL RIG	
CUMULATIVE ROTATING HRS.				SUBS O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED		10:00 11:15 1 1/4				TAX WORK ON PUMP CLUTCH	
				BIT OR C.B. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.		11:15 11:45 1/2				PRES. TEST BLIND RAMS TOO 1000 PSI OR	
				KELLY DOWN FT.		COND. OF BIT				11:45 12:00 1/4				PICK UP BOTTOM HOLE COLLAR & PRESS SAME	
				TOTAL FT.		REAMER NO.		DRILLER							
				WT. OF STRING LBS.		REAMER TYPE		Brian L. ...							



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A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DATE _____

June 19, 1911

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APPROVED



APPROVED

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DATE March 13, 1971

A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO. 1

DATE MARCH 12, 1971

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE						
CANADIAN DELHI		SANDER DECKMO ETAL POLICE ISLAND L-66		47.6		FORT NORMAN		FORT NORMAN		N.W.T.						
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & CR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
Jennings International Drilling A Division of Western Electronics & Engineering Ltd.		9	6" 1/4 O.D.	4" 1/2	1. EMSCO 14500 76" 2. EMSCO 14500 16"											
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER														
George Rudolphson																
TIME DISTRIBUTION-HOURS																
MORN DAY EVE																
RIG UP/TEAR DOWN		2 1/2														
DRILLING ACTUAL		5														
REAMING																
CONDENSING MUD & CIRCULATING																
TRIPS																
LUBRICATE RIG																
DEVIATION SURVEY		0 1/2														
TEST B.O.P.																
CUT OFF DRILLING LINE																
REPAIR RIG																
CORING																
WIRE LINE LOGGING																
RUNNING CASING & CEMENTING																
WAITING ON CEMENT																
DRILL STEM TEST																
OTHER																
FISHING																
COMPLETION WORK																
A. PERFORATING																
B. TUBING TRIPS																
C. SWABBING																
D. TESTING																
E. ADDITIONAL																
TOTALS		8 8														
TIME SUMMARY (OFFICE USE ONLY)																
DAY WORK																
HRS. V/D																
HRS. W/D																
HRS. STANDBY																
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