ATLANTIC COL CAR

MONITOU LAKE - L 61

Drilling Authority No. 204

Date Issued October 20, 1965

WELL NAME Atlantic Col Car Manitou Lake L-61

FIELD

Area:

LOCATION: Unit L Section 61 Grid 66-30; 128-45

Latitude 66-20-40 Longitude 128-58-00

From Established Reference Marker

Rig Release Date:

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No. .....
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	Well Visit.
	Daily Drilling Reports.
	Logs. Large scale ..... Small scale .....

Drilling Authority No. 204

Date Issued October 20, 1965.

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

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

Well name and number Atlantic Col Car Manitou Lake L-61

Permit No. 3922 Lease No.

Atlantic Refining, Columbia Carbon (Permittee, Licensee, Lessee) Exploratory Licence No. 913

Atlantic Refining Co. (Operator) Exploratory Licence No. 913

Location: Unit L Section 61 Grid 66°30'N Lat. 128°45' W Long.

Latitude 66° 20' 40" Longitude 128° 58' 00"

From Established Reference Marker Seismic Slot Point 6328 on Line 70

	DATE	DEPTH
Spudded	11-19-65	
Suspended		
Resumed		
Finished Drilling	1-31-66	5652
Deepened		
Complete (gas/oil)		
Abandoned	2-5-66	5652
Rig released	2-5-66	

Pool (s)

Interval(s) open to production

Elevation: Gr. 420

K.B. 431 ± 32

Drilling Contractor & Rig No. S&T Rig 1E

Contractor's Business Licence No. 24223

CASING RECORD

	Casing Size (inches)	Grade	Weight	Amount	Set at—	Sacks of Cement and Additives
1.	16	F-25	55	45	55	70 + 2% $CaCl_2$
2.	11-3/4	H-40	42	505	499	400 + 2% $CaCl_2$
3.	8-5/8	J-55	24	2971	2948	200 ~~remainder~~ 375 sacks + 12% gel @ 2336
4.						
5.						
6.						

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Rampants	330	+101
Hare Indian Equiv.	550	-118
Hume	1050	-619
Hume Shale	1265	-834
Bear Rock	1445	-1014
Lower Bear Rock	2098	-1667
Silurian	2370	-1939
Calcareous Dolo.	5190	-4759
Cambrian (?)	5348	-4917
Cambrian Halite	5544	-5113

CORE RECORD

From	To	Rec.	From	To	Rec.
2182	2197	14			
5570	5631	30			

LOG RECORD

Run No.	Type of Log	From	To
1	Microlaterolog	499	2944
1	Microlog Caliper	499	1903
1	Borehole Comp. Sonic	499	1880
1	Induction Electric	499	1889
2	Induction Electric	1888	2945
2	Borehole Comp. Sonic	1880	2946
2	Microlaterolog	2948	5655
3	Borehole Comp. Sonic	2948	5656
~~3~~	~~Microlaterolog-Caliper~~	~~2948~~	~~5656~~
3	Conductivity Laterolog	2948	5656
3	Velocity Survey	~~2500~~ (53e?)	5653

MANR 52-80(2) (7-65)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
2-3-66	5607	5657	WI 50 SX OWC
2-3-66	4600	4700	WI 50 SX OWC. Felt @4585
2-4-66	3400	3500	WI 50 SX OWC. Felt @3375
2-5-66	2300	2375	WI 40 SX OWC. Felt @2270
* 2-4-66	2998	2895	WI 50 SX OWC + 2% $CaCl_2$. Felt @ 2895'
			10 SX in sq. Welded on plate

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	1-10-66	Silurian	2962	3108	120	30	120	1014	1239	86	323	1278	1250	Rec 800' Fresh and 1900' Salt Water
2	1-21-66	Silurian	4045	4316										Misrun - unable to reach bottom
3	1-21-66	Silurian	4045	4316	120	36	120	1739	1698	384	499	1759	1739	Rec 900' Drilling fluid, 2885' water

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E66-23-2	Water	2962	3108	DST #1- Silurian	Chloride -13600 Mg/L
E66-170	Water	4045	4316	DST #3- Silurian	Correlation of Sample Not possible - no comparisons
E66-181	Water			Mud Tanks	Circulating Fluid

PRESENT STATUS OF WELL

Oil		(Interval)
Gas		(Interval)
Dry	X	Abandoned
Susp.		

Company The Atlantic Refining Co.

Signed by (Original Signed) R. A. Evans R.A. Evans

Title Production & Drilling Superintendent

Date March 9, 1966.

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

POOR COPY

File No.
Drilling Authority No. 204

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well [redacted]

Location: Unit [redacted] Section [redacted] Grid [redacted]

Latitude [redacted] Longitude [redacted]

From Established Reference Marker [redacted]

Permit No. [redacted] Lease No.

[redacted]
(Permittee, Licensee, Lessee)

Date of commencement of proposed program

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at [redacted]

Gas at [redacted] 1 & 3

Water at [redacted]

Total Depth 5652 Date of last operations Feb 3, 1966

Present condition of well [redacted]

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. [redacted]	[redacted]	[redacted]	[redacted]	[redacted] + 2% $CaCl_2$	[redacted]
2. [redacted]	[redacted]	[redacted]	[redacted]	[redacted] + 2% $CaCl_2$	[redacted]
3. [redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	[redacted]	[redacted]	[redacted]	
2	[redacted]	[redacted]	[redacted]	[redacted]
3	[redacted]	[redacted]	[redacted]	[redacted]
4	[redacted]	[redacted]	[redacted]	[redacted]
5	[redacted]	[redacted]	[redacted]	[redacted]
6	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

The following logs have been run [redacted]

Other operations proposed [redacted]

Operations [redacted] Contractor Licence No. [redacted]

Address [redacted] Address [redacted]

Responsible Agent [redacted]

Dated at [redacted] this [redacted] day of February 19 66

Signed [redacted] Company [redacted]

Title [redacted] Operator's Exploratory Licence No. [redacted]

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.G.J. Thomas on February 9, 1966.

Dated February 23, 19 66

B.G.J. Thomas
Oil Conservation Engineer

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

NANR 52-90 (5) (7-65)

POOR COPY

File No.

Drilling Authority No. 204

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application for a Drilling Authority

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

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

Name and number of well Atlantic Col Cor Pembina Lake L-61

Location: Unit L Section 61 Grid 65°30'N Lat.128°45'W Long.

Latitude 66° 20' 40" Longitude 128° 38' 00"

From Established Reference Marker Well to be drilled at Islands Shot Point

6328 on Line 70

Elevation: Ground Est. 430 K.B. Est. 431 feet above sea-level.

Well is expected to produce from Cretaceous formation at a depth

of about 6000 feet.

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 3822 Lease No. Acreage

Permittee, licensee, or lessee Atlantic Refining Company, Columbian Carbon

Exploratory Licence No. 913

Surface owned by Crown or Crown

Petroleum and natural-gas rights owned by Crown (If privately owned 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	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 16	55	J-55		New	30	150 (Circ.)
2. 11-3/4	42	H-40	Dale-STAC	New	600	560 (Circ.)
3. 8-5/8	24	J-55	Dale-STAC	New	1600	175 sax
4. 5-1/2	To be designed as required					
5.						

Expected water, gas, and oil horizons and type of control equipment All horizons to be controlled with drilling fluid of proper density. BOP's; one 10" 3000# Hydril, and one 10" 2000# Double Gate Shaffer with pipe and blank rams.

Well will be drilled with (Rotary) Rig No. 18 by S & T DRILLING COMPANY LTD.
(Cable)
(Drilling Contractor or company)

5825 - 90th Street, Edmonton, Alberta.

Responsible agent of applicant J. W. Davidson Contractor's Licence No. 26223

At well Address 10825 - 100th St., Edmonton At registered office Address R. A. Evans 10825 - 100th Street, Edmonton, Alberta.

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

Dated at Edmonton, this 20th day of October 19 65

Signed R. A. Evans (Original Signed) R. A. EVANS Company The Atlantic Refining Company

Title Production & Drilling Superintendent Licence No. 913

(For Resources Division use only)

APPROVED

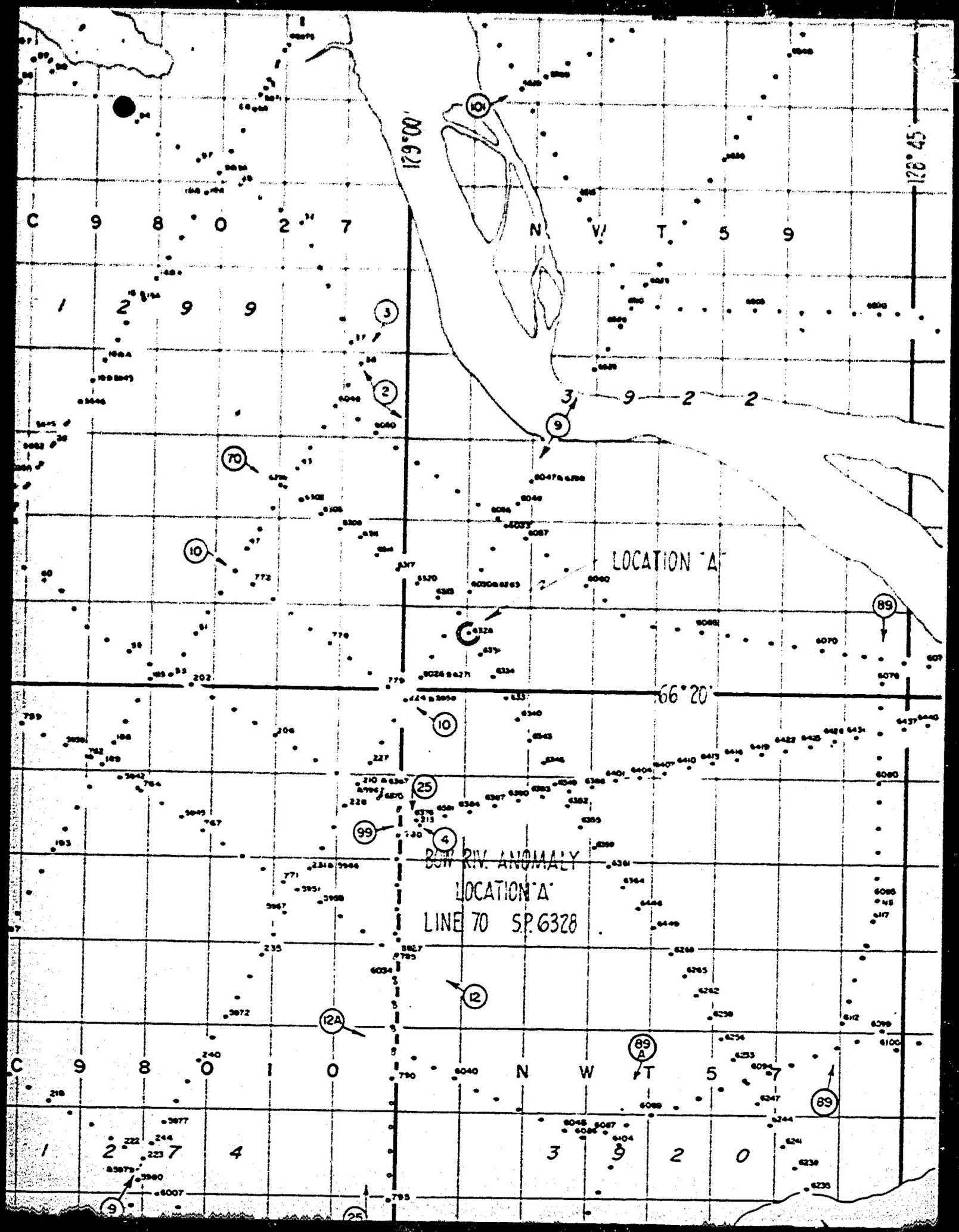
This application has been examined and approved subject to the following conditions:—

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

Dated 20th October 19 65

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

NANR 52-90(1) (1-61)


179°00'
128°45'
66°20'
C 9 8 0 2 7 N W T 5 9
1 2 9 9
3 9 2 2
LOCATION 'A'
BOW R.V. ANOMALY
LOCATION 'A'
LINE 70 S.P. 6328
C 9 8 0 1 0 N W T 5 7
1 2 7 4
3 9 2 0

File No.....
Drilling Authority No. 204

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Norman Wells Date: 11th July 1971

TO: The Oil Conservation Engineer:

RE: Atlantic Columbian Carbon Manitou Lake I-61

Location: 66.34444°N., 128.96667°W. Status: D & A February 1966

This location was inspected by the undersigned on 11th July 1971

m T.D. 5657'

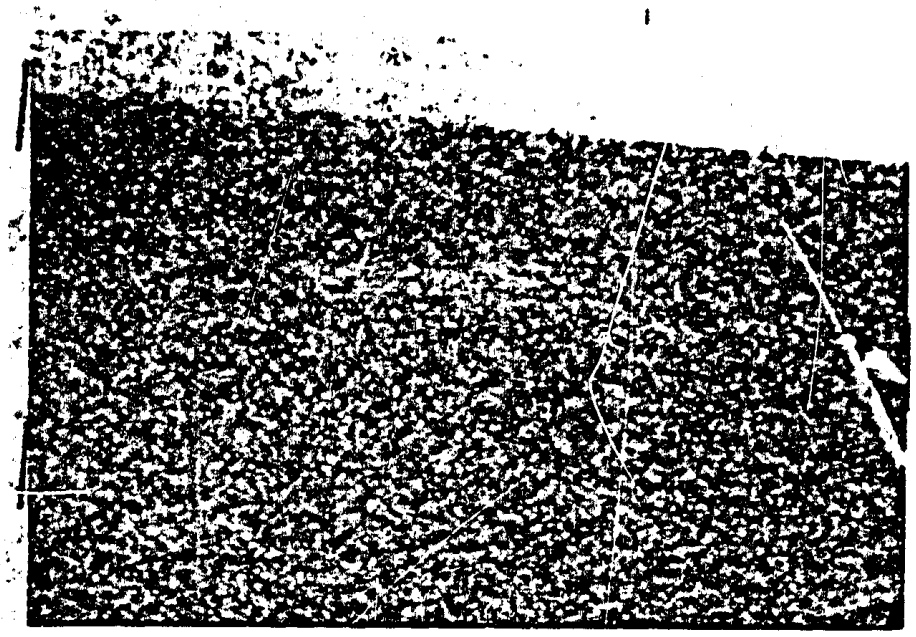
The location is in ~~satisfactory~~/unsatisfactory condition.

The following items require attention:

1. Remove boards and debris from cellar and backfill.
2. Pile and burn all lumber
3. Bury all drums, cans, scrap iron, plastic sheeting, wire rope.
4. Paint identifier pipe and plate flourescent orange.
5.
6.

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

Never cleaned up.



Inspected by M. D. Thomas

M. D. Thomas
District 2

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
IAND 52-90-14 (9-69)

Well History Report
Atlantic Col Car Manitou Lake L-61

WELL HISTORY REPORT

ATLANTIC COL CAR MATTICU LAKE L-61

The Atlantic Refining Company
10025 - 108th. Street,
Edmonton, Alberta

GEOLOGICAL & EVALUATION
Resource Management Division
JUN 24 1966
OTTAWA, CANADA
Dept. of Northern Affairs & National Resources

WELL HISTORY REPORT

ATLANTIC COL CAR MANITOU LAKE L-61

Section I - SUMMARY OF WELL DATA

a) Well Name
b) Permittee
c) Operator
d) Location
e) Co-Ordinates
f) Permit No.
g) Drilling Contractor
h) Drilling Authority
i) Classification
j) Elevation
k) Spudded
l) Completed Drilling
m) Total Depth
n) Well Status
o) Rig Released
p) Hole Size
q) Casing

Section II - GEOLOGICAL SUMMARY

a) Formation Tops
b) Cored Intervals
c) Core Description
d) Sample Description

Section III - ENGINEERING SUMMARY

a) Report of Drill Stem Tests
b) Casing Record
c) Bit Record
d) Mud Report
e) Deviation Record
f) Abandonment Plugs
g) Lost Circulation Zones
h) Report of Blowouts

Section IV - LOGS

Section V - ANALYSIS

a) Core Analysis
b) Water Analysis
c) Gas Analysis
d) Oil Analysis

Section IV - COMPLETION SUMMARY

a) Tubing Record
b) Perforation Record
c) Cementation Record
d) Acidization and Fracturing Record
e) Back Pressure and Production Tests

Section I - SUMMARY OF WELL DATA

a) Well Name: Atlantic Col Car Manitou Lake L-61

b) Permittee: Atlantic Refining - Columbian Carbon

c) Operator: The Atlantic Refining Company, 10025 - 108th. St., Edmonton, Alberta

d) Location: Unit L, Section 61, Grid 66°30' N. Lat. 128°45' W. Long.

e) Co-ordinates: 66°20' 40" N. Lat., 128°58' 00" W. Long. from established reference marker. Seismic Shot Point on Line 37.

f) Permit No: 3922

g) Drilling Contractor: S & T Drilling Co. Ltd. Rig #1E.

h) Drilling Authority: No. 204, issued ~~November 1~~ October 20, 1965.

i) Classification: Exploratory well.

j) Elevation: Ground 420 feet.
R.K.B. - 432 feet.

k) Spudded: November 19, 1965 at 3:00 P.M.

l) Completed Drilling: January 31, 1966 at 1:30 A.M.

m) Total Depth: 5657 feet.

n) Well Status: Plugged and abandoned.

o) Rig Released: February 5, 1966 at 11:59 P.M.

p) Hole Size: 0-55 feet 21 inch, 55-499 feet 15 inch 499-2948 feet 11 inch, 2948-5657 feet 7-7/8 inch.

q) Casing: Conductor Pipe - 16". ~~65#~~ 55#, F-25 from 0-55'.
Surface Casing - 11-3/4", 42#, H-40, ST&C from 0-499'.
Intermediate Casing - 8-5/8", 24#, J-55, ST&C from 0-2948'.

Section II - GEOLOGICAL SUMMARY

a) Formation Tops

	Samples	Logs
Devonian		
Ramparts	330	330
Hare Indian	550	550
Ramo	1054	1050
Bear Rock	1380	1445
Lower Bear Rock	2080	2098
Silurian-Ordovician	2360	2370
Cambrian	5550	5348
T.D.	5657	

b) Cored Intervals:

Core No.	Formation	Interval	Recovery
1	Bear Rock	2182 - 2197	14'
2	Cambrian	5570 - 5631	30'

c) Core Description: See Appendix 1.

d) Sample Description: See Appendix 1.

Section III - ENGINEERING SUMMARY

a) Report of Drill Stem Tests: See Appendix 2.

b) Casing Record:

Conductor: Set 2 joints (45') of 16", 55#, F-25 plain end casing at 55' in 21" hole. Cemented with 70 sacks Canada High Early Cement plus 2% calcium chloride.

Surface: Ran 504.96' of 11-3/4, 42#, H-40, ST & C new casing set at 499' in 15" hole. Cemented with 400 sacks Canada High Early Cement plus 2% calcium chloride. Circulated 20 barrels of returns at 65°F. to surface.

Intermediate: Ran 2971.11' of 8-5/8", 24#, J-55, ST & C new casing set at 2948' in 11" hole. Cemented with 200 sacks oilwell. Thread locked first 60' of casing, Larkin Model 202. Guide shoe and Model 502 Baffle collar. Good cement returns.

c) Bit Record: See Appendix 2

d) Mud Report:/ See Appendix 2

e) Deviation Record: See Appendix 2

f) Abandonment Plugs:

Plug #1: 5657-5607, cemented with 50 sacks Oilwell cement. Plug down at 8:00 P.M., February 3, 1966.

Plug #2: 4700-4600, cemented with 50 sacks Oilwell cement. Plug down at 9:00 P.M., February 3, 1966. After 8 hours waiting on cement, top of the plug was felt at 4585!

Plug #3: 3500-3400, cemented with 50 sacks Oilwell cement. Plug down at 6:30 A.M., February 4, 1966. After 8 hours waiting on cement, top of the plug was felt at 3375'.

Plug #4: 2998-2898, cemented with 50 sacks Oilwell cement plus 2% calcium chloride. Plug down at 3:30 P.M., February 4, 1966. After 8 hours waiting on cement, top of the plug was felt at 2880'.

f) Abandonment Plugs: cont'd

Plug #5: 2375-2300, cemented with 40 sacks Oilwell cement plus 2% calcium chloride. Plug down at 1:00 A.M. February 5, 1966. After 8 hours waiting on cement, top of plug was felt at 2270'.

Cut casing 3' below ground level and placed a 10 sacks Oilwell cement plug inside the casing. Welded on steel plate and erected the required well monument.

g) Lost Circulation Zones:

Silurian-Ordovician at 2081-2235.
Lost 550 barrels of 8.5#/gallon mud through this interval and regained with 1800#/ sawdust, 600# polyethelene, 300# shavings, 200# fibre seal and 80 sacks gel. Lost partial returns while drilling at 2540 (lost 25 barrels mud, added gel), prior to running intermediate casing at 2948 (lost 150 barrels mud, added sawdust and gel) and at 2963 (added sawdust and gel).
This condition was remedied when the intermediate casing was set.

h) Report of Blowouts: None

Section IV - LOGS (Envelope)

a) Electric Logs:

Date	Type of Logs	Scale	Intervals
12- 2-65	Induction Electric	2 & 5"	499-1889
12- 2-65	Sonic Gamma Ray	2 & 5"	499-1889
12- 2-65	Velocity Survey	4 levels	530, 1000, 1430, 1880
12- 3-65	Microlog Caliper	5"	499-1904
12-19-65	Induction Electric	2 & 5"	1288-2945
12-19-65	Sonic Gamma Ray	2 & 5"	1880-2948
12-19-65	Microlaterolog	2 & 5"	499-2944
2-1-66	Sonic Gamma Ray	2 & 5"	2948-5646
2-1-66	Microlaterolog	2 & 5"	2948-5658
2-1-66	Laterolog	2 & 5"	2948-5652
2-1-66	Velocity Survey	Shots 2500, 3200, 4000, 4500, 5189, 5546, 5653.	

b) Mud Log:

Baroid P.P.M. log from 12' to 5657'.

SECTION V - ANALYSIS - See Appendix 1

Section VI - COMPLETION SUMMARY

a) Tubing Record: None

b) Perforation Record: None

c) Cement Record
Conductor, Surface and Intermediate Casing see Section III (b)
Abandonment Plugs ecc Section III (f)

d) Acidizing and Fracturing Records: None

e) Brack Pressure and Production Tests: None

APPENDIX I

ATLANTIC COL CAR MANITOU LAKE L-61

CORE DESCRIPTION

Core #1		2182 - 2197'	15'	Recovered 14'
2182 - 2186'	4'	Dolomite - medium brown, very fine to fine crystalline, 3 - 7% intercrystalline porosity with trace vuggy porosity, no stain, occasional argillaceous partings outlining dolomite fragments. Some steeply dipping beds of brecciated dolomite at 2183 - 2185'.		
2186 - 2195'	9'	Dolomite - medium brown to grey brown, fine crystalline, occasional argillaceous parting, numerous vertical fractures and vugs from pin point to 2" in diameter which make up over 30% of the rock volume in places. All vugs have a lining of drusy dolomite crystals with occasional calcite and anhydrite (?) crystals present.		
2195 - 2196	1'	Dolomite - medium brown, very fine to fine crystalline, 20% argillaceous partings, very poor porosity, no vugs. Bedding planes at or very near horizontal.		
Core #2		5570 - 5630'	60'	Recovered 30'
		Halite - clear, pink and grey, few thin interbeds of maroon and green shale up to 6" thick; also thin interbeds of laminated medium grey anhydritic dolomite, and dark brown to translucent anhydrite. Thickest bed of dolomite is 5' thick. Because of poor recovery it is impossible to reconstruct proper sequence.		

Sample Description

55 - 330'	Cretaceous - Predominantly sandstone, white, very fine to granular, some chert and pyrite, with interbeds and partings of dark grey to black shale.
330 - 550'	Ramparts - Limestone, white to grey-brown, fine crystalline to fragmental and pelletoidal, some amphipora, trace of pyrobitumen.

Sample Description (Cont'd)

550 - 1050'	Hare Indian Equivalent - Limestone, white to light brown, microcrystalline to very fine crystalline, fragmental in part, amphipora common.
1050 - 1265'	Hume - Limestone, dark brown, argillaceous, fine crystalline re-crystallized and fragmental in part, trace of vuggy porosity, some ostracod, crinoid and brachiopod fragments.
1265 - 1445'	Hume shale - Shale, dark grey, calcareous, trace of pyrite, lower part of section a light brown micritic limestone with fossil fragments.
1445 - 2093'	Bear Rock - Limestone, light to dark brown, pelletoidal to very fine crystalline, sucrosic, trace of scattered vuggy porosity.
2093 - 2305'	Lower Bear Rock Dolomite - Dolomite, medium to dark brown, microcrystalline to fine crystalline, sucrosic in part, scattered intercrystalline and vuggy porosity.
2305 - 5358'	Siluro-Ordovician - Dolomite, white to dark brown, cryptocrystalline to coarsely crystalline, chert beds, scattered inter-crystalline and vuggy porosity.
5358 - 5544'	Cambrian - Dolomite and shales interbedded; dolomite, light grey, argillaceous; shale, grey green, maroon, brown.
5544 - 5656'	Cambrian Halite - Halite with few thin interbeds of green and maroon shales and grey anhydritic dolomite.

CHEMICAL GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. E66-23-2

Received: Jan. 13, 1966 Reported. Jan. 17, 1966 Well location: Hamilton Lake L-61 66° 20' 40" N, 128° 58' W. Long.

Operator: The Atlantic Refining Company Field or Area: North West Territories

Elev.: K.B. 432' Grd. 420' Zone/formation: Silurian Ordivician Sample Interval: 2964' - 3108'

Method of Production: D.S.T. #1 Sampled from: Sampled by: J.W. Davidson Date: Jan. 10, 1966

OTHER PERTINENT DATA . Recovered 2700', Two 1 qt. samples for analysis. One sample caught 1700' above tool. One sample caught 90' above tool.

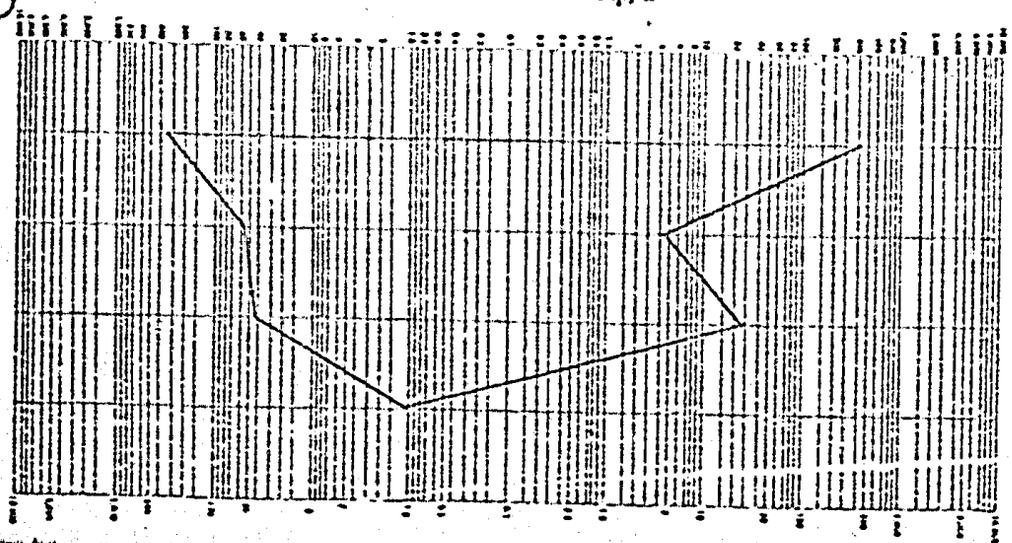
J. W. Davidson
(Signed) Atlantic Refining Co.

	Na&K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	7,956		1,157	520					1,300	14,720				270		
Meq./L	346.10		57.73	42.74					27.04	415.10				4.43		
Meq. %	38.75		6.46	4.79					3.03	46.47				0.50		

Total Solids Mg/L: By Evaporation 27,670 Fe Trace Specific Gravity 1.018 @60°F Observed pH 8.1 @ 78 °F

Calculated 25,923 After Ignition 23,520 H_2S Refractive Index 1.3405 @25°C Resistivity 0.309 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Unable to correlate, due to lack of formation water analysis from this area.

E66-23-1: Sample caught 1700' above tool

Chloride content: 13,600 Mg/l.
pH: 8.1 @ 77.5°F.
Resistivity: 0.336 Ohm-Meters @ 68°F.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E66-171

Received: Jan. 28, 1966 Reported: Feb. 3, 1966

Well: Location: Manitou Lake L-61 66° 20' 40" N., 128° 58' W.

Operator: The Atlantic Refining Company

Field or Area: N.W.T.

Elev.: K.B. Grd. Zone/Formation:

Sample Interval:

Method of Production:

Sampled from:

Sampled by: J. Davidson Date: Jan. 23, 1966

OTHER PERTINENT DATA Sample of circulating fluid, obtained from mud tanks.

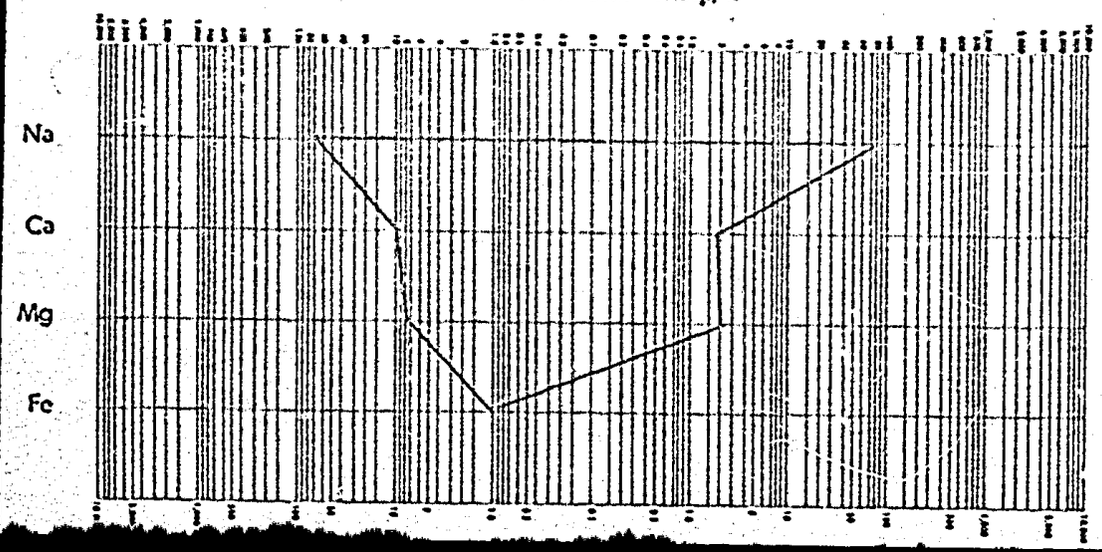
(Signed) J. W. Davidson
Atlantic Refining Co.

	Na & K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg/L	1,577		197	93					112	2,900				120		
Meq./L	68.61		9.83	7.64					2.33	81.78				1.97		
Meq. %	39.85		5.71	4.44					1.35	47.50				1.14		

Total Solids Mg/L: By Evaporation 5,424 Fe Trace Specific Gravity 1.004 @60°F Observed pH 7.5 @ 73 °F

Calculated 4,999 After Ignition 4,520 H_2S Refractive Index 1.3375 @25°C Resistivity 1.00 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No.E66-170

Received: Jan. 28, 1966 Reported: Feb. 3, 1966

Well: location: Manitou Lake L-61 66° 20' 40" N., 128° 58' W.

Operator: The Atlantic Refining Company

Field or Area: N.W.T.

Elev.: K.B. 432' Grd. 420' Zone/formation: Sil-Ordovician

Sample Interval: 4045' - 4316'

Method of Production: D.S.T. #3

Sampled from:

Sampled by: J. Davidson

Date: Jan. 21, 1966

OTHER PERTINENT DATA Sample number 1. Bottom sample. Recovered 3785' water.

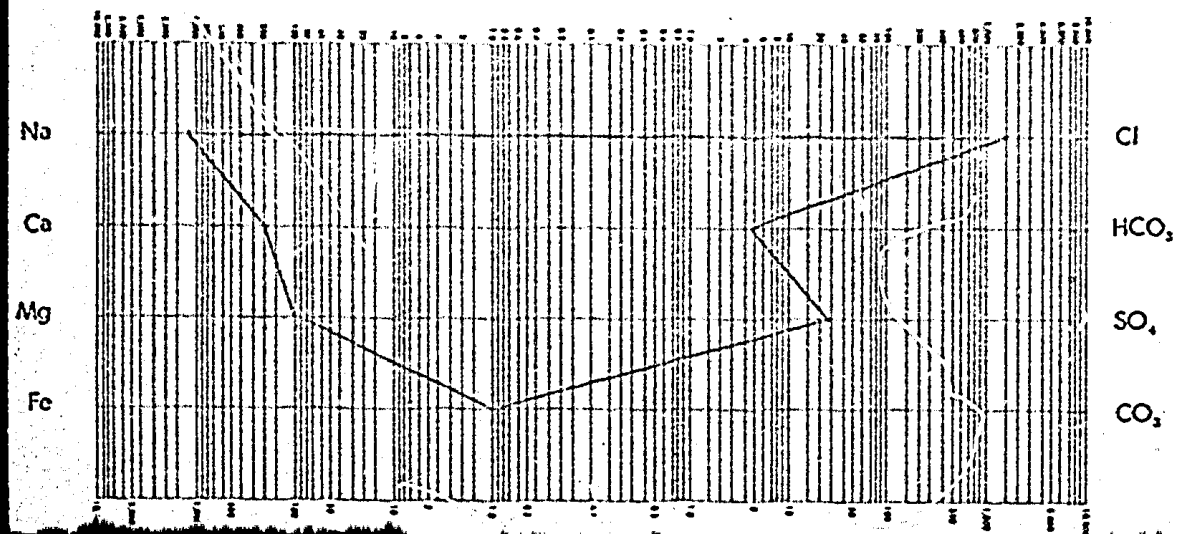
(Signed) J. W. Davidson
Atlantic Refining Co.

	Na&K		Ca	Mg					SO_4	Cl			CO_3	HCO_3		
M/L	28,584		3,924	1,225					1,400	53,400				300		
Meq./L	1243.41		195.81	100.70					29.12	1505.88				4.92		
Meq. %	40.37		6.36	3.27					0.95	48.89				0.16		

Total Solids Mg/L: By Evaporation 97,290 Fe Trace Specific Gravity 1.057 @60°F Observed pH 7.1 @ 73 °F

Calculated 88,833 After Ignition 85,220 H_2S Refractive Index 1.3515 @25°C Resistivity 0.098 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

Analysis of formation waters from this area are too limited for proper correlation.

LOCATION: ATLANTIC COAST MANITOU 1-M | CONTRACTOR: SST Drilling Co. Rig 15 | RIG No. 15 | TOOL PUSHER: el S Mullins | PAGE 1 of 2

No.	Size	Make	Type	Jet Size	Serial	Depth Out	Feet	Hours	Accum. Hours	Dull Cond T	Dull Cond B	Dull Cond G	No. of DC	Wt. 1000 Lbs.	R.P.M.	Vert. Dev.	Pump Pres.	No. 1 Spm	No. 1 Liner	No. 2 Spm	No. 2 Liner	Mud Wt.	Mud Vis.	Mud pH	Mud WL	Dat
1A	21	Sec	S3	-	706957	55	55	7½		1	1	1	Co...	...	...	...		...	...	3	...	...	...	...	...	12/...
1B	15	Sec	S3	-	530252	345	290	30	31½	4	2	1														
2B	15	Sec	S6	-	633744	474	154	31¾	69¼	3	2	1	6-5	25	55	3/4°	350	6½	7½			93	43			11/...
1	21	H.C.	...	-	36367	1064	565	29¼	93½	4	4	0														
2	11	H.W.	...	3/16	36368	1520	456	25½	119	...	...	...	6-5	35	55	1½	925	6½	6½		5½	...	100			
3	11	Reed	YT43	3/16	623721	1753	254	20¾	139½	5	4	1														
4	11	Reed	YT43	3/16	505505	1903	120	15	154½	4	6	2														12/1...
5	7⅞	Sec	M4N	-	704886	Drilled Cement																				
6	11	H.W.	...	-	67713	2095	142	18¾	173	4	4	0														
7	11	Reed	YT	3/16	442472	2162	97	9½	182⅞	5	7	1	Rimed ...													
CB1	6¾				EC16509	2197	15	3¼	185¾	...	...	...														
8	11	Reed	YM	12/32 2-14	032792	2276	73	14½	200½	7	2	1														
9	11	Reed	Y-H	-	531546	2337	69	14	214¼	4	4	1														
10	11	Reed	YH	-	N45254	2457	113	20	234½																	
11	11	H.W.	...	-	36767	2535	83	17½	251⅞	7	4	1														
12	11	H.W.	...	-	37762	2624	89	16½	265	6	2	1														
13	11	H.W.	...	-	37765	2701	77	16¼	280½	7	2	1										8.8	40			
14	11	Reed	YH	-	521647	2784	83	18½	302½	7	4	2	6-3 1-9	30 40	55	3½	1450	6⅝	6¾		-	ca...	Ho...	8.0	...16	
15	11	Sec	H7W	-	707156	2872	108	18¾	321⅛	6	5	1														
16	11	H.W.	...	-	53831	2940	56	12½	333½				Pulled to ...													
17	7⅞	Reed	YS1	-	523562	2963	15	1¼	334⅞				Cog. cone ...													12/15/...
18	7⅞	Reed	YS1	-	424325								Clean out Cog. ... mill ... ion													
19	7⅞	Sec	H7T	-	706547	3108	145	24	355⅜	4	4	0														1/9/...
20	7⅞	H.W.	W7	3/16 11-11	120...	3161	53	11¾	371½	8	8	-	Lost 3 cones													
21	7⅞	H.W.	W7R	11-11	10734	3200	39	6½	378	5	6	2														
22	7⅞	Sec	RHS	3/16	755742	3360	160	12	390	6	5	2	22	25	43	5	1500	62	5½		5½	wate...				
23	7⅞	Sec	PHSJ	2-15 1-11	764210	3616	256	15¼	405⅜	6	4	0														
24	7⅞	H.W.	RR67S	3/16	475551	3919	203	19½	427¾	4	5	0														1/12/...
25	7⅞	H.W.	RR67S	3/16	475593	3990	71	8¾	436½	3	3	0	Trip for ...													
26	7⅞	H.W.	W7R		102...	3984	94	13	449½	7	4	0														
27	7⅞	H-W	RR67S	3/16	475490	4192	212	22	469½	6	5	0	22	35 38	40	3½	1000	61	5½		5½					1/2...

FORM NO. 3E-3-42

LOCATION | CONTRACTOR | RIG No. | TOOL PUSHER | PAGE 2 OF 2

No.	Size	Make	Type	Jet Size	Serial	Depth Out	Feet	Hours	Accum. Hours	Dull Cond T	Dull Cond B	Dull Cond G	No. of DC	Wt. 1000 Lbs.	R.P.M.	Vert Dev	Pump Pres	No. 1 Spm	No. 1 Liner	No. 2 Spm	No. 2 Liner	Mud Wt	Mud Vis	Mud pH	Mud WL	Dev.
28	7⅞	H-W	RRWJ	3/12	47557	4316	124	14¾	422½	-	4	0														
29	7⅞	Sec	H7T	-	206545	4406	90	12½	436½	6	6	1														
30	7⅞	H-W	RRWJ	3/12	47556	4731	325	36½	537½	4	4	1														1/2°
31	7⅞	H-W	RR7J	3/11	36759	5020	289	27	564¾	8	5	3														
28	RR	H-W	RRWJ	3/11	47557	5041	21	4½	564½																	
32	7⅞	Reed	YC44C	2-10 1-13	504529	5295	252	29¼	593½	7	7	0	22	30 35	40	3	1250	6½	5½		5½	6	37½	-		
33	7⅞	Reed	YC44C	2-10 1-13	606526	5500	207	21¼	614¾	4	4	0														
34	7⅞	Sec	H7WS	3/12	205016	5570	70	4	618¾				Pull to csg													
C.O.1	6⅞				606509	5631	61	3¾	622½	0	0	0														
34	7⅞	Sec	H7WS	3/13	205016	5657	57	5½	628				Ream 5631/1¼ hrs									61	40	-		1/3°
													Hole completed 1130 AM 1/31/61													
													Rig released 2/3/61													

RECEIVED
MAR - 7 1961
DIVISION OF MINES

FORM NO. 56-3-42

BAROID OF CANADA, LTD.

DRILLING MUD RECORD

COMPANY Atlantic Refining Company PROVINCE Northwest Territories

WELL NAME Atlantic Col Car Manitou Lake DISTRICT Arctic

CONTRACTOR S & T Rig 1E LOCATION 123°58' W. Longitude

STOCKPOINT S & T #1E DATE 5-10-66 BAROID ENGINEER _____

CASING PROGRAM 16 inch at 55 ft.
11-3/4 inch at 499 ft.
8-5/8 inch at 2948 ft.

60°20'-40" N. Intitude

Lsd ____ Sec ____ Twp ____ Rng ____ W ____ Total Depth 5657 ft.

GENERAL MUD PROPERTIES

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY sec/qt	FILTRATION API cc/30 min	FILTRATION HTHP cc/30 min	pH	VISCOSITY 6 rpm	VISCOSITY PV	VISCOSITY YP	GELS 10 sec	GELS 10 Mins	FILTRATE ANALYSIS Cl ppm	FILTRATE ANALYSIS Ca ppm	FILTRATE ANALYSIS SO4 ppm	FILTRATE ANALYSIS Alk Pf	RETORT ANALYSIS Oil %	RETORT ANALYSIS Water %	RETORT ANALYSIS Solids %	WT.
11-24-65	499	9.4	43																
12-2-65	1593	8.4	23																
12-15-65	2616	8.6	35			8													
12-17-65	2826	8.8	47			8													
1-9-66	3094	8.4	28																
1-23-66	4562	8.4	28																
1-31-66	5657	8.4	28																

Recommendations for future holes in this area.

HISTORY OF HOLE

DEPTH	Include Hole Conditions, Trouble, Contaminants
2220	Loosing mud - partial lost circ.
2580	Minor lost circulation
2948	Lost 150 bbl mud while circ.
	prior to running casing.
2963	Lost returns
2963	Landed intermediate casing.
	Hole drilled to completion
	with water - no problems.

17.2
9.8

MATERIAL

MATERIAL	AMOUNT	COST
Aquagel	570	Sacks
Baroid		
Bicarb		
Carbonox		
Caustic Soda	600	lbs
CC16		
Fibertex	200	lbs
Impermex		
Imp. Pros.		
Lime	120	lbs
P of Paris		
Q-Broxin		
Anhydrex		
S.A.P.P.		
Sawdust	2000	lbs
Soda Ash		
Invermul		
Duratone		
Petrotone		
Geltone		
Quick VIS	5	gal
Polyethelene	1600	lbs
Shavings	1300	lbs
Peltex	100	lbs
Cronox	3	gal
MAT. COST		
TAX		
DRAYAGE		
TOTAL COST		

SO's & CM's

GENERAL INFORMATION

Spud Date ~~November 19, 1965~~ Total Days ~~72~~ Cost/Foot _____

Completed ~~January 31, 1966~~ No. of Bits ~~34~~ Cost/Day _____

BR-1998

APPENDIX NO. 2

DRILL STEM TEST SUMMARY

TEST	FORMATION	DEPTH INTERVAL	INITIAL SHUT-IN (min)	FLOW PERIOD (min)	FINAL SHUT-IN (min)	RECOVERY	PRESSURES	
1	Silurian Ordovician	2962-3108	30	120	120	800' Fresh Water 1900' Salt Water (~~Misrun~~)	I.S.I.P. F.S.I.P. I.F.P. F.F.P. I.H.P. F.H.P.	1014 1239 86 323 1278 1250
2	Silurian	4045-4316				Misrun - couldn't get to bottom		
3	Silurian Ordovician	4045-4316	36	120	120	900' Drilling Fluid 2885' water	I.S.I.P. F.S.I.P. I.F.P. F.F.P. I.H.P. F.H.P.	1739 ~~1693~~ 1739 384 499 1759 1739

e) Deviation Record: Slope tests - rig wireline

Depth	Degree	Depth	Degree	Depth	Degree
75	1	1524	1-1/2	3161	4
100	3/4	1783	1-1/4	3360	5
165	3/4	1903	1-1/4	3616	4-1/2
260	0	2000	2-1/2	3819	4-
345	1	2180	2-1/4	4192	3-1/2
420	3/4	2270	3	4406	4
499	1-1/2	2339	3	4731	3
635	1-1/2	2552	3	5020	3
900	1	2452	3-	5298	2-1/2
1010	1-1/2	2624	3-1/4	5570	2-1/2
1064	1-1/2	2701	3-3/4		
		2784	3-3/4		
		2892	3-1/2		
		2948	3-3/4		
		3108	4		

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

THE ATLANTIC REFINING COMPANY
ATLANTIC COL CAR MANITOU LK.
66°-20'-45"N-128°-58'-WL
DST# 1 2962-3108

T & E-1

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

Johnston's **Special Data Analysis** provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

JOHNSTON TESTERS

Pressure Log*

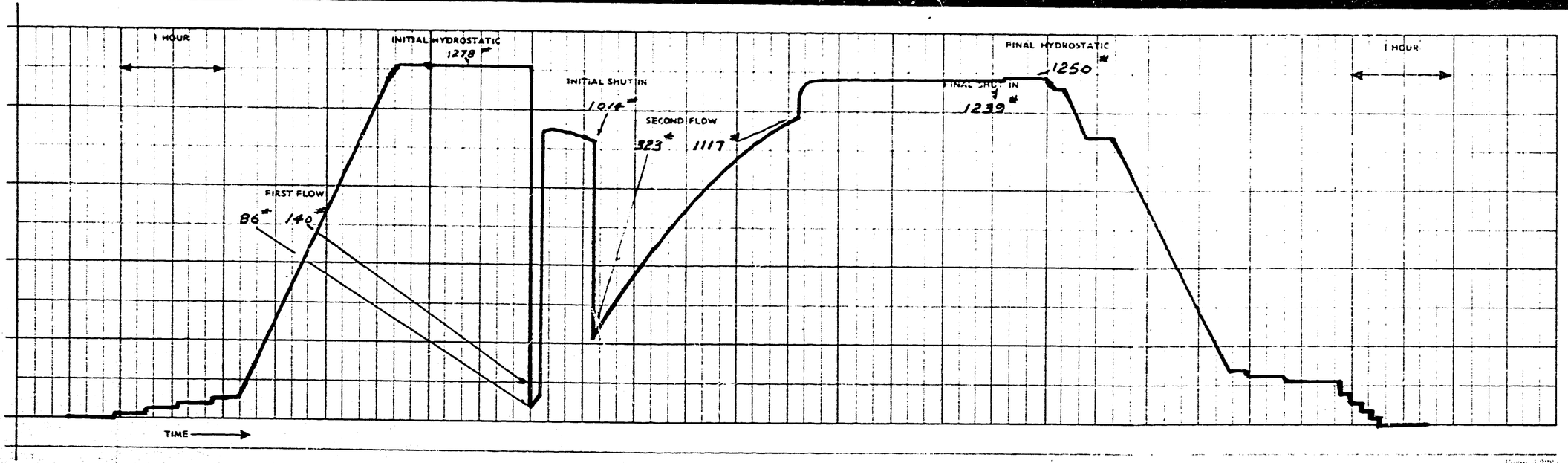
Field Report No. C6121

Instrument: Number T-198

Capacity 7000 p.s.i.

Depth 2979 ft.

* a continuous tracing of the original chart



Form 3 2M

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness		Ft	
Interval	2962	To 3108	TD 3108		
Type of Test	OPEN HOLE. BOTTOM HOLE				
Time Started at Hole	2100	Hrs.	Tool Open 0141	Hrs	
First Flow	4	Min	Shut In	30 Min	
Second Flow	120	Min	Final Shut In	120 Min.	
Pulled Loose @	0616	Hrs	Out of Hole	0915 Hrs.	
Wt. Set on Packer	35.000		* Pulled Loose Wt	64.000 *	
Remarks					

Description of Blow During Test: GOOD STRONG BLOW THROUGHOUT TEST.

GAS BLOW MEASUREMENTS

Measured with: I.D. Riser or Est. ☐

Type of Instrument:

Time	Stem. Choke	Reading Inches	Cubic Feet Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No X

Fluid Recovered Total: 2700' Ft

Description of Fluid Recovered: 800' FRESH WATER.
1900' SALT WATER.

Remarks: TEST SATISFACTORY.

Co. Rep: J. DAVIDSON

Tester: T. SCHEFFELMAIER

Elevation	NOT REPORTED		
Bottom Hole Choke Size	1/2"		
Fluid Cushion Type			
Amount			

TOOL SEQUENCE

Tool	Length	OD
D.P. SUB.	.68	5 3/4"
SHUT IN TOOL	6.00	4 3/4"
HYD. TOOL	7.40	4 3/4"
SAFETY JT.	1.73	4 3/4"
T.C. & PKR.	7.10	5 1/2"
T.C. & PKR.	5.40	5 1/2"
TOTAL	28.31	
STUB	.90	4 3/4"
PERF.	10.00	4 3/4"
2 RECORDERS	11.38	4 3/4"
SUB.	.68	5 3/4"
D.C.	117.42	6"
SUB.	.87	5 3/4"
PERF. & B.N.	5.50	4 3/4"
TOTAL INTERVAL	146.75	
TOTAL LENGTH	175.06	

MUD AND HOLE DATA

Mud Type: WATER W.L.

Filter Cake: 2/32 Visc. 28 Wt. 8.4

Time Taken: 1600 HRS.

Contractor: S & T DRILLING Rig No. 1

Drill Pipe Size: 4 IF & 3 1/2 IF

Drill Collar Size: 2 7/8 ID Length 456'

Main Hole Size: 7 7/8"

Rat Hole Size:

District	EDMONTON	Ticket No C-6191	Date JANUARY 9/66
Company	THE ATLANTIC REFINING COMPANY	Address 10025 - 108TH STREET EDMONTON ALBERTA	
Well Name	ATLANTIC COL CAR MANITOU LK.	Test No. 1	J.T.L. Test No. 1
Number	#66°-20'-45"N-128°-58'-WL	Field WILDCAT	Province N. W. T.
Formation and Interval	DST# 1 2962-3108	Consultant	

Distribution of Reports: 2 & CHARTS - CALGARY - F.G. VETSCHE
1 - CALGARY - T.J. HITCHCOCK
1 - DALLAS - T.S. HUTCHINSON
1 - CALGARY - B.H.J. THOMS
4 - EDMONTON - R.A. EVANS

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		T-49	T-198	
CAPACITY (psig)		7000	7000	
INSTRUMENT DEPTH		2973	2979	
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	
PRESSURE GRADIENT psi/FT				
WELL TEMP °F		86°	86°	
INITIAL HYDROSTATIC	A	1274#	1278#	
FIRST FLOW	B	70#	86#	
B-1		129#	140#	
INITIAL SHUT-IN	C	1008#	1014#	
SECOND FLOW	D	313#	323#	
D-1		549#	1117#	
SECOND SHUT-IN	E			
THIRD FLOW	F			
		CLOCK		
FINAL SHUT-IN	G		1239#	
FINAL HYDROSTATIC	H	STOPPED	1250#	

FIELD REPORT No. C-6191

TIME DATA

TIME GIVEN	TIME COMPUTED
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS
MINS	MINS

CLOCK TRAVEL IN/MIN.

REMARKS.

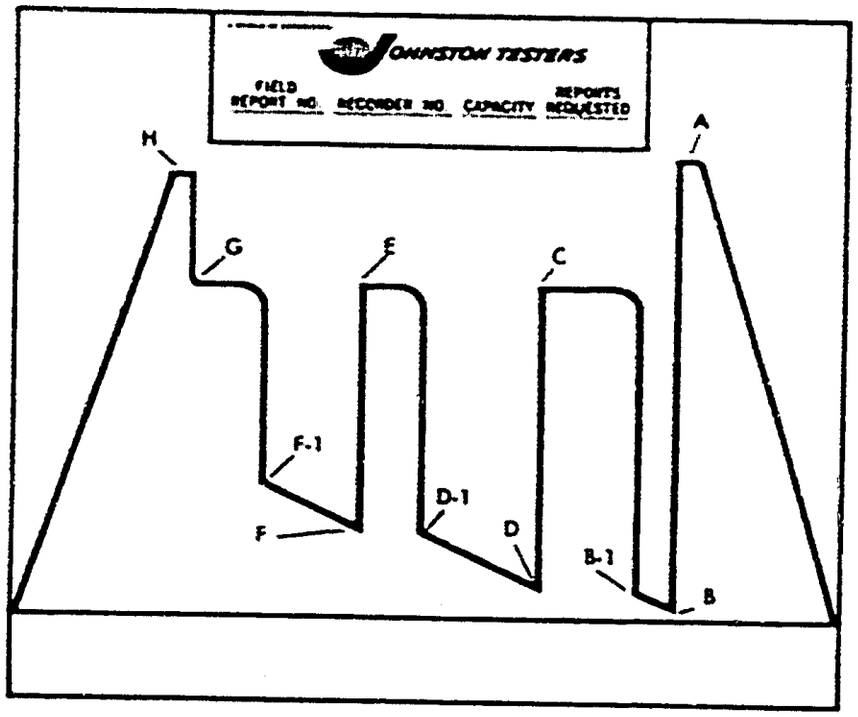
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

JTL-1 & E-13

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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

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

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

THE ATLANTIC REFINING COMPANY
ATLANTIC COL CAR MANITOU LK
66°-20'-45"N-128°-58' DST# 2
4045-4316

I & E-1



Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

Johnston's **Special Data Analysis** provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

JOHNSTON TESTERS

TEST DATA

Formation — Zone Thickness — Ft

Interval 4045 To 4316 T.D. 4316

Type of Test OPEN HOLE, BOTTOM HOLE

Time Started at Hole 0001 Hrs | Tool Open Hrs

First Flow 0 Min | Shut In 0 Min

Second Flow 0 Min | Final Shut In 0 Min

Pulled Loose @ Hrs | Out of Hole 0900 Hrs

Wt. Set on Packer 35,000 # | Pulled Loose Wt #

Remarks

Description of Blow During Test MIS-RUN, UNABLE TO REACH BOTTOM

GAS BLOW MEASUREMENTS

Measured with I.D. Riser or Est. ☐

Type of Instrument

Time	Stce. Choke	Reading Inches	Cubic Feet Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☐

Fluid Recovered Total Nil Ft

Description of Fluid Recovered

Remarks MIS-RUN, UNABLE TO REACH BOTTOM. BRIDGE AT 150' OFF BOTTOM.

Co. Rep. J. DAVIDSON

Tester T. SCHEFFELMAIER

Elevation 431 KB 420 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type

Amount

TOOL SEQUENCE

Tool	Length	OD
SUB.	.82	
P.O. SUB.	.96	
SUB.	.92	
D.P. SUB.	.68	
SHUT IN TOOL	6.03	
HYD. TOOL	7.40	
JARS	4.20	
SAFETY JT.	1.74	
T.C. & P.R.	7.10	
T.C. & PKR.	5.40	
TOTAL	35.25	
STUB	.90	
PERF.	5.00	
2 RECORDERS	11.38	
PERF.	22.00	
SUB.	.83	
D.P.	224.77	
SUB.	.90	
PERF. & B.N.	5.50	
TOTAL INTERVAL	271.28	
TOTAL LENGTH	306.53	

MUD AND HOLE DATA

Mud Type WATER W.L.

Filter Cake Visc. 28 Wt. 8.4

Time Taken

Contractor S & T DRILLING Rig No 1

Drill Pipe Size 4" IF AND 3 1/2 IF

Drill Collar Size 2 7/8 ID Length 355'

Main Hole Size 7 7/7"

Rat Hole Size

District EDMONTON Ticket No C-6193 Date JANUARY 21/66

Company THE ATLANTIC REFINING COMPANY Address 10025 - 108TH STREET, EDMONTON ALBERTA

Well Name ATLANTIC COL CAR MANITOU LK Test No. 2 J.T.L. Test No. 2

Number #66°-20'-45"N-128°-58' DST# 2 Field WILDCAT Province N.W.T.

Formation and Interval 4045-4316 Consultant

Distribution of Reports 1 - DALLAS, T. S. HUTCHINSON, 2 & CHARTS - CALGARY, F. G. VETSCH
1 - CALGARY, T. J. HITCHCOCK, 4 - EDMONTON, R. A. EVANS, 1 - CALGARY, B.H.J. THOMS

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		T-50	T-198	FIELD REPORT No. C-6193
CAPACITY (psig)		7000	7000	
INSTRUMENT DEPTH		4051	4057	
INSTRUMENT OPENING		OUTSIDE	OUTSIDE	
PRESSURE GRADIENT psi/FT				TIME DATA
WELL TEMP. °F		92°	92°	
INITIAL HYDROSTATIC	A	1705#	1713#	TIME GIVEN / TIME COMPUTED
FIRST FLOW	B	MIS-RUN UNABLE TO REACH BOTTOM.		MINS / MINS
INITIAL SHUT IN	C			MINS / MINS
SECOND FLOW	D			MINS / MINS
SECOND SHUT IN	E			MINS / MINS
THIRD FLOW	F			MINS / MINS
FINAL SHUT-IN	G			MINS / MINS
FINAL HYDROSTATIC	H	1692#	1694#	CLOCK TRAVEL IN/MIN

REMARKS:

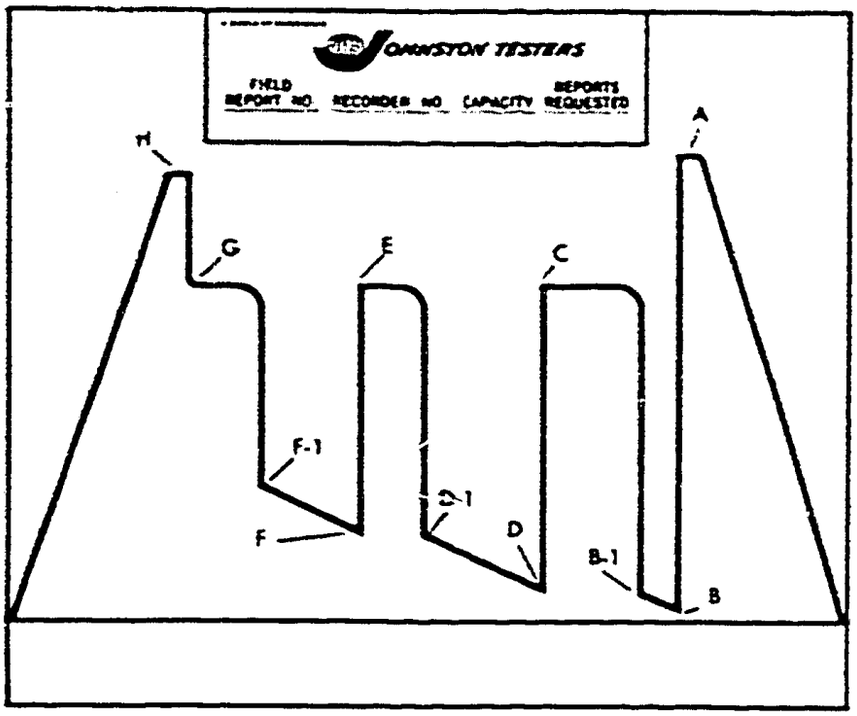
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

JTL-1 & 2-13

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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

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

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

THE ATLANTIC REFINING COMPANY
ATLANTIC COL CAR MANITOU LK
#66°-20'-45"N-128°-58'-WL
4045-4316 DST# 3

JOHNSTON TESTERS

Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

Johnston's **Special Data Analysis** provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.

JOHNSTON TESTERS

Pressure Log*

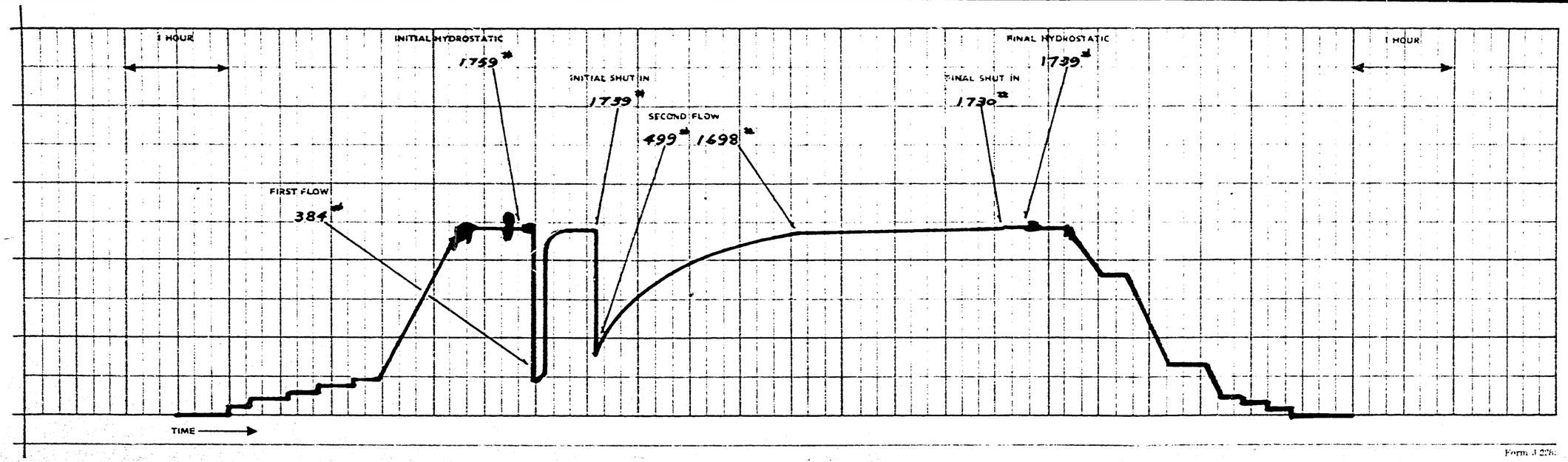
Field Report No. C-6194

Instrument Number T-198

Capacity 7000 p.s.i.

Depth 4057 ft.

* a continuous tracing of the original chart



Form J 226

JIL CO 4

JOHNSTON TESTERS

TEST DATA

Formation — Zone Thickness — Ft

Interval 4345 To 4316 TD 4316

Type of Test OPEN HOLE BOTTOM HOLE

Time Started in Hole 1600 Hrs | Tool Open 2011 Hrs

First Flow 3 Min | Shut In 36 Min

Second Flow 120 Min | Final Shut In 120 Min

Pulled Loose Wt 0050 Hrs | Out of Hole 0500 Hrs

Wt Set on Packer 30,000 # | Pulled Loose Wt 94,000 #

Remarks

Description of blow During GOOD BLOW, DECREASING THROUGHOUT TEST.

GAS BLOW MEASUREMENTS

Measured with ID Riser or Est. ☐

Type of Instrument

Time	Size Choke	Reading Inches	Cubic Feet Day

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No X

Fluid Recovered Total 3785' Ft

Description of Fluid Recovered 900' DRILLING FLUID.
2885' WATER.

Remarks TEST SATISFACTORY.

Co. Rep. J. DAVIDSON

Tester T. SCHEFFELMAIER

Elevation 431' KB 420 GL

Bottom Hole Choke Size 1/2"

Fluid Cushion Type

Amount

TOOL SEQUENCE

Tool	Length	O.D
SUB.	.82	
P.O. SUB.	.96	
SUB.	.92	
D.P. SUB.	.68	
SHUT IN TOOL	6.03	
HYD. TOOL	7.40	
JARS	4.20	
SAFETY JT.	1.74	
T.C. & PKR.	7.10	
T.C. & PKR.	5.40	
TOTAL	35.25	
STUB	.90	
PERF.	5.00	
2 RECORDERS	11.38	
PERF.	22.00	
SUB.	.83	
D.P.	224.77	
SUB.	.90	
PERF. & B.N.	5.50	
TOTAL INTERVAL	271.28	
TOTAL LENGTH	306.53	

MUD AND HOLE DATA

Mud Type WATER W.L.

Filter Cake Visc. 28 Wt. 8.4

Time Taken

Contractor S & T DRILLING Rig No. 1

Drill Pipe Size 4" IF AND 3 1/2 IF

Drill Collar Size 2 7/8 ID Length 355'

Main Hole Size 7 7/8"

Rat Hole Size

District EDMONTON Ticket No. C-6194 Date JANUARY 21/66

Company THE ATLANTIC REFINING COMPANY Address 10025 - 108TH STREET, EDMONTON, ALBERTA

Well Name ATLANTIC COL CAR MANITOU LK Test No. 3 J.T.L. Test No. 3

Number #66°-20'-45"N-128°-58'-WL Field WILDCAT Province N.W.T.

Formation and Interval 4045-4316 DST# 3 Consultant

Distribution of Reports 1 - DALLAS, T. S. HUTCHINSON, 2 & CHARTS - CALGARY - F. G. VETSCH
1 - CALGARY, T. J. HITCHCOCK, 1 - CALGARY B.H.J. THOMS, 4 - EDMONTON R.A. EVANS

JOHNSTON TESTERS

PRESSURE DATA

INSTRUMENT No.		T-50	T-198
CAPACITY (psig)		7000	7000
INSTRUMENT DEPTH		4051	4057
INSTRUMENT OPENING		OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/ft			
WELL TEMP °F		92°	92°
INITIAL HYDROSTATIC	A	CLOCK	1759#
FIRST FLOW	B		384#
		STOPPED	
INITIAL SHUT-IN	C		1739#
SECOND FLOW	D		499#
D-1			1698#
SECOND SHUT-IN	E		
THIRD FLOW	F		
FINAL SHUT-IN	G		1730#
FINAL HYDROSTATIC	H		1739#

FIELD REPORT No. C-6194

TIME DATA

	TIME GIVEN	TIME COMPUTED
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
	MINS	MINS
CLOCK TRAVEL		IN./MIN.

REMARKS:

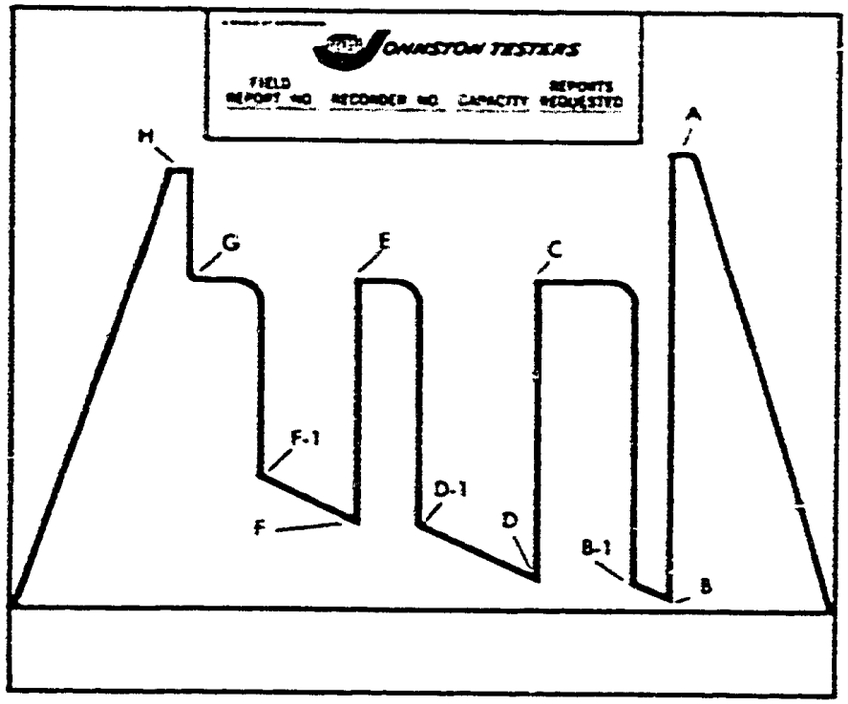
PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

JTL-1 & C-13

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

SONIC LOG
and
WELL GEOPHONE SURVEY

Atlantic Columbian Carbon Manitou Lake L-61
66° 20' 45" N. Lat. 128° 58' 00" W. Long.
NORTHWEST TERRITORIES

SONIC LOG

AND

WELL GEOPHONE SURVEY

ATLANTIC COL. CAR. MANITOU LAKE L-61

66° 20' 45" N LAT., 128° 58' 00" W LONG.

N.W.T., CANADA

FOR

THE ATLANTIC REFINING COMPANY

CALGARY, ALBERTA

INTEGRATED VELOCITY SERVICES LTD.

CALGARY, ALBERTA

INDEX

OPERATIONAL STATISTICS — Pages 1 to 3

APPENDICES:

Index Map	I
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BACK COVER:

Calibrated Sonic Log

Digital Velocity Data Analysis

Well Velocity Graphs

OPERATIONAL STATISTICS

Client:		The Atlantic Refining Company
Well:		Atlantic Col. Car. Manitou Lake L-61
Location:		66°20'45"N Lat., 128°58'00"W Long.
Survey Contractors:		Schlumberger of Canada Abbreviated Well Geophone Survey- Integrated Velocity Services Ltd.
Survey Date:		December 2, 1965, and February 1, 1966
K.B. Elevation:		431 Ft. A.S.L.
Ground Level:		419 Ft. A.S.L.
Total Depth:	Driller S.O.C.	5656 Ft. 5656 Ft.
Casing:		727 Ft.
Sonic Tool Dimensions:		
	Spacing Span	3 Ft. 2 Ft. B.H.C.
Geophone Level Surveyed:		11
Maximum Shot Hole Charge:		10 Lbs. Dynamite
Minimum Shot Hole Charge:		1 1/4 Lbs. Dynamite
Maximum Shot Depth:		60 Ft.
Minimum Shot Depth:		47 Ft.
Total Explosives Used:		
	Well Geophone Survey:	76 Lbs. Dynamite 15 Seismic Caps

Near Surface Velocity Survey:
8 3/4 Lbs. Dynamite
4 Seismic Caps

Operating Time:

Well Geophone Survey:

Well Available:	7:10 P.M., Dec. 2, 1965
	8:45 A.M., Feb. 1, 1966
Well Released:	10:00 P.M., Dec. 2, 1965
	10:15 A.M., Feb. 1, 1966

Near Surface Velocity Survey:

Well Available:	10:00 P.M., Dec. 2, 1965
Well Released:	1:10 A.M., Dec. 3, 1965

Velocity Records		Trace Arrangement
Trace #1	-	Time Break
Trace #2	-	Uphole Time
Trace #3	-	Well Geophone: Low Gain Setting
Trace #4	-	Well Geophone: Medium Gain Setting
Trace #5	-	Well Geophone: High Gain Setting
Trace #6	-	Sub-reference Geophone
Traces #7 to #12 Inc.	-	Surface Reflection Profile

SONIC LOG - WELL GEOPHONE SURVEY COMPARISON

Datum Elevation: 220 Ft. A.S.L.

DK.B.	T_c(Geo.)	T_c(Log)	Δtc
530	.0260	.0260	.0000
1000	.0530	.0536	+.0006
1430	.0800	.0802	+.0002
1880	.1030	.1023	-.0007
2500	.1330	.1327	-.0003
3200	.1680	.1674	-.0006
4000	.2060	.2058	-.0002
4500	.2300	.2295	-.0005
5189	.2610	.2606	-.0004
5546	.2800	.2800	.0000
5653	.2860		

Reasonable agreement exists between the Sonic Log and Well Geophone data at all levels. The 5653 foot level has no log data due to the log starting at 5350 ft. below K.B. The survey is considered reliable in all other respects.

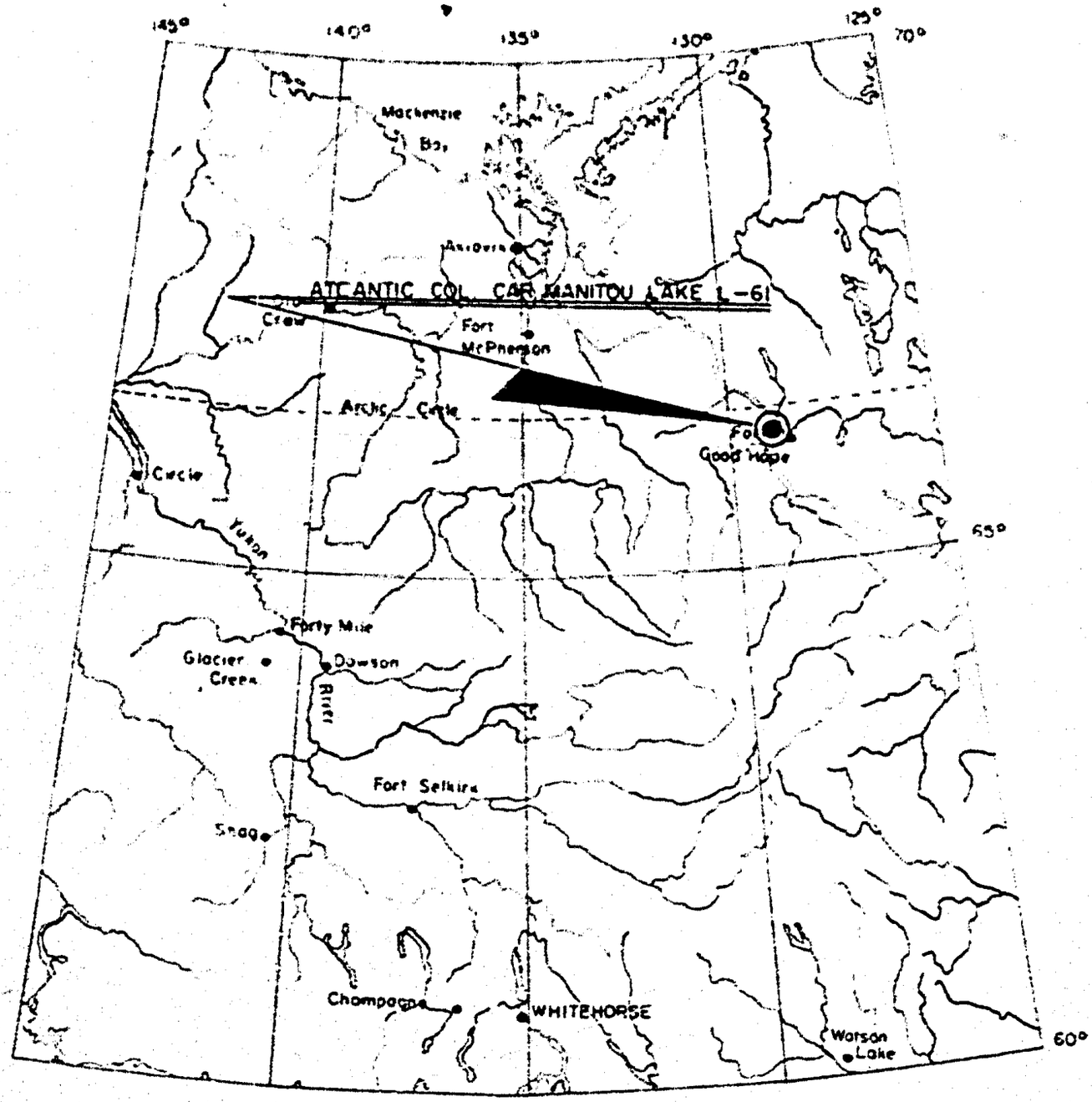
Respectfully submitted,

INTEGRATED VELOCITY SERVICES LTD.



R.G. Ponton.

LOCATION MAP



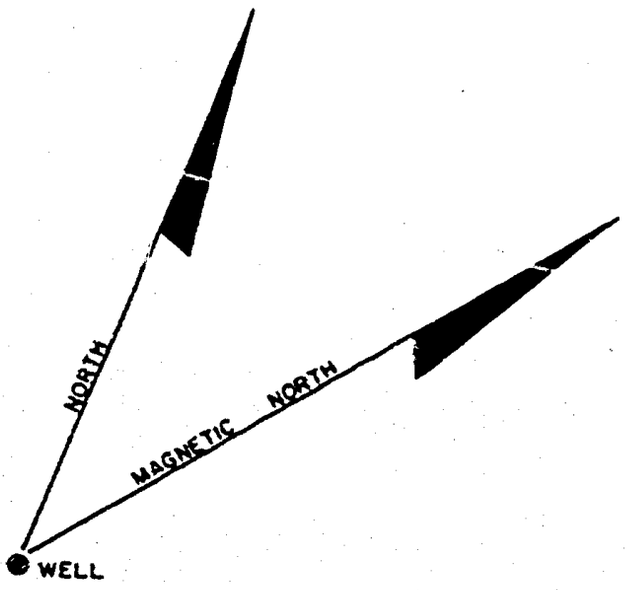
◎ WELL.

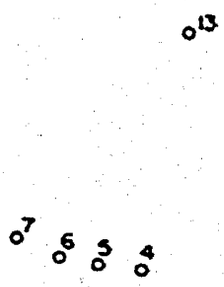
SHOOTING PLAN

Well: ATLANTIC COL. CAR MANITOU LAKE L-61

Location: 66° 20' 45" N 128° 58' 00" W

Scale: 1" = 100'





LEGEND:

Well ◎

Shot Point o

Geophone •

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Velocity Services Ltd.

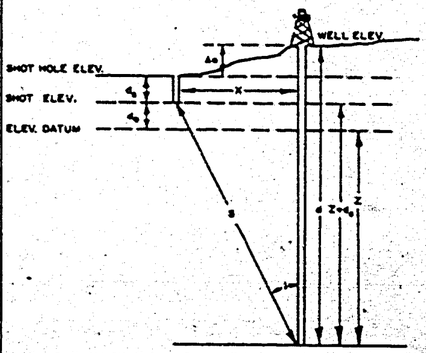
APPENDIX III

S.P.-ELEVATION-DISTANCE-DIRECTION				S.P.-ELEVATION-DISTANCE-DIRECTION			
4	419'	198'	S20°30'E				
5	419'	198'	S13°30'E				
6	419'	198'	S 6°30'E				
7	419'	198'	S 0°00'E				
13	419'	198'	S37°00'E				

WELL ELEVATION	TOTAL DEPTH	CASING RECORD
K.B. 431 feet	5656 feet	inches to 499 feet
ELEVATION DATUM		DATUM VELOCITY
220 feet above sea level		feet/second

WELL NAME: Atlantic Col. Car. Manitou Lake L-61
LOCATION: 66°20'45"N 128°58'00"W
COMPANY: The Atlantic Refining Company
SURVEY CONTRACTOR: Integrated Velocity Services Ltd.
SURVEY DATE: February 1, 1966

FORMATION	Record Number	Shot Hole Number	d	d_s	t_{uh}	Shot Hole Elevation	d_e	Δe	$\Delta e+d_s$	t_e	T	$Z+d_e$	X	Cos i	$\overline{T}$	T_c	Z	V_a	ΔZ	ΔT_c	V_i
	7	5	530	55	.006	419	144	12	67	.017	.047	463	198	.9195	.043	.026	319	12269			
	6		1000	55	.006		144		67	.016	.071	933		.9782	.069	.053	789	14887	470	.027	17407
	3		1430	60	.007		139		72	.016	.097	1358		.9895	.096	.080	1219	15238	430	.027	15926
	5	5	1880		.007					.017	.121	1808		.9941	.120	.103	1669	16204	450	.023	19565
	1	4	2500		.006					.016	.149	2428		.9967	.149	.133	2289	17211	620	.030	20667
	2		3200								.184	3128		.9980	.184	.168	2989	17792	700	.035	20000
	3		4000	60	.006		139		72	.016	.222	3928		.9987	.222	.206	3789	18393	800	.038	21053
	4		4500	59	.005		140		71	.017	.247	4429		.9990	.247	.230	4289	18648	500	.024	20833
	5		5189	54	.006		145		66	.016	.277	5123		.9993	.277	.261	4978	19073	689	.031	22226
	6		5546	50	.005		149		62	.017	.297	5484		.9994	.297	.280	5335	19254	357	.019	18789
	7	4	5653	47	.004	419	152	12	59	.017	.303	5594	198	.9994	.303	.286	5442	19328	107	.006	17833



X = Horizontal distance from well to shot point.
d = Well geophone depth measured from well elevation.
d_s = Depth of shot.
d_e = Difference in elevation between shot and elevation datum.
Δe = Difference in elevation between well and shot point.
Z = Well geophone depth measured from elevation datum.
= d-(K.B. elevation - elevation datum).
$Z+d_e$ = Well geophone depth measured from shot elevation.
= $d - d_s - \Delta e$.
S = Straight line travel path from shot to well geophone.
T = Observed time from shot to well geophone.
t_{uh} = Uphole time at shot or other surface reference time.
t_e = Vertical time from shot to elevation datum
= $\frac{d_e}{V_a}$.

$\text{Cos } i = Z+d_e \Big/ \sqrt{x^2+(Z+d_e)^2}$

$\overline{T}$ = Vertical travel time from shot elevation to well geophone.
= Cos i T.
T_c = Vertical travel time from elevation datum to well geophone.
= $\overline{T} - t_e$
V_a = Topmost velocity in consolidated layer.
V_a = $\frac{Z}{T_c}$ = Average velocity.
V_i = $\frac{\Delta Z}{\Delta T_c}$ = Interval velocity.

INTEGRATED
Velocity Services Ltd.

ELEVATION CORRECTIONS

REFERENCE HOLE - 6

HOLE ELEVATION - 419 Ft.

GEOPHONE DEPTH - 200 Ft.

GEOPHONE ELEVATION - 219 Ft.

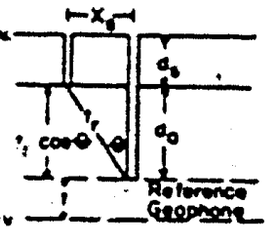
DATUM ELEVATION - 220 Ft.

t = N/A

$\text{Tan } \Theta = X_s / d_h$

$t = \frac{\text{Ref Geo Elev} - \text{Datum Elev}}{\text{Datum Velocity}}$

$t_e = t_r \text{ Cos } \Theta + t$



S.P. - Elevation	Shot No.	d_s	Shot Elev	X_s	d_o	Tan Θ	Cos Θ	t_r	t_e
5 419	7	55	364	23	145	.15862	.9877	.017	.017
5	6	55	364		145	.15862	.9877	.016	.016
5	3	60	359		140	.16429	.9868	.016	.016
5	5	60		23		.16429	.9868	.017	.017
4	1	60		46		.32857	.9500	.017	.016
4	2	60					.9500	.017	.016
4	3	60	359		140	.32857	.9500	.017	.016
4	4	59	360		141	.32624	.9507	.018	.017
4	5	54	365		146	.31507	.9538	.017	.016
4	6	50	369		150	.30667	.9561	.018	.017
4 419	7	47	372	46	153	.30065	.9577	.018	.017

INTEGRATED
Seismic Surveys Ltd.

NEAR SURFACE VELOCITY DATA

Crystal Geophone Cable

WELL ATLANTIC COL. CAR. MANITOU LAKE L – 61

RECORD NO. 10

SHOT POINT 13

S.P. ELEV. 419 Ft.

SHOT DEPTH 60 Ft.

K.B. ELEV 431 Ft.

T_{uh} .006 Sec.

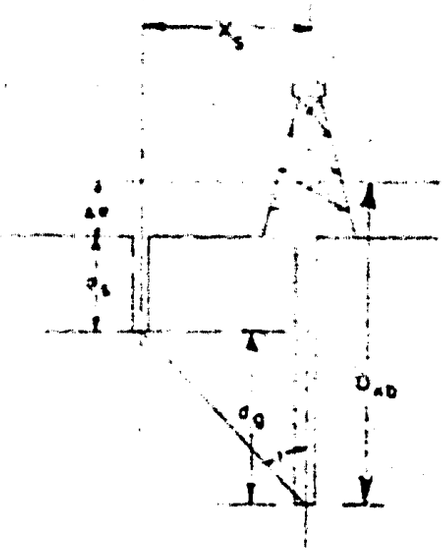
X_s 74 Ft.

$d_g = D_{KB} - (d_s + \Delta e)$

$\frac{X_s}{d_g} = \tan i$

$(\cos i)(T) = \overline{T}$

$\overline{T} + T_{uh}(\cos i) = T_c$



D_{KB}	d_s	Δe	d_g	T	Cos i	$\overline{T}$	T_c
245	60	12	173	.019	.9194	.017	.023
235			163	.017^5	.9106	.016	.022
225			153	.017	.9002	.015	.021
215			143	.016^5	.8881	.014^5	.020^5
205			133	.015^5	.8738	.014	.020
195			123	.015	.8569	.013	.019
185			113	.014^5	.8366	.012	.018
175			103	.014	.8121	.011	.017
165			93	.013	.7825	.010	.016
155			83	.012	.7464	.009	.015
145			73	.011	.7023	.008	.014
135	60	12	63	.010^5	.6483	.007	.013

Uphole Time Correction:

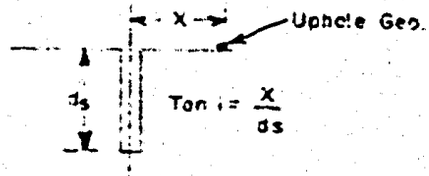
Horizontal Offset (X)

Shot Depth (d_s)

Uphole Time (T_{uh})

Tan i = Cos i =

$(T_{uh})(\cos i)$ =



INTEGRATED
Velocity Services Ltd.

NEAR SURFACE VELOCITY DATA

Crystal Geophone Cable

WELL: ATLANTIC COL. CAR. MANITOU LAKE L-61

RECORD NO.: 11

SHOT POINT: 13

S.P. ELEV.: 419 Ft.

SHOT DEPTH: 60 Ft.

K.B. ELEV.: 431 Ft.

T_{uh}: .006 Sec.

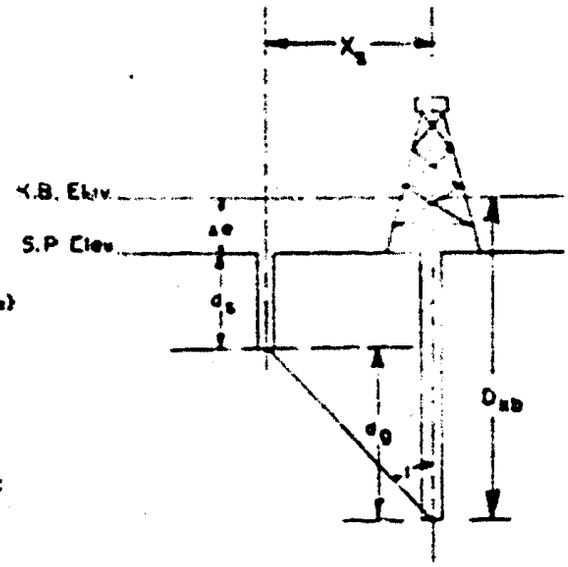
X_s: 74 Ft.

$d_g = D_{kb} - (d_s + \Delta e)$

$\frac{X_s}{d_g} = \tan i$

$(\cos i)(T) = \overline{T}$

$\overline{T} + t_{uh}(\cos i) = T_c$



D_{kb}	d_s	Δe	d_g	T	Cos i	$\overline{T}$	T_c
125	60	12	53	.010	.5823	.006	.012
115			43	–	.5025	–	–
105			33	$.005^5$	.4073	.004	.010
95			23	–	.2968	–	–
85			13	$.008^5$	.1730	$.001^5$	$.007^5$
75			-3	–	.0405	–	–
65	60	12	-7	.005	.0994	$-.000^5$	$.005^5$

Uphole Time Correction:

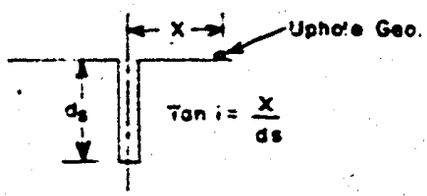
Horizontal Offset: (X)

Shot Depth: (d_s)

Uphole Time: (T_{uh})

Tan i = Cos i =

$(T_{uh})(\cos i) =$



INTEGRATED
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Well ATLANTIC COL. CAR. MANITOU LAKE L - 61

Record No. 6 WELL GEOPHONE

Well Geophone Depth 5546 ft. (K.B.)

Shot Point 4 Amp. Gain % 70 %

Charge 10 lbs. Shot Depth 50 ft.

Filter 64 - 30 Geo./Trace 3

Date February 1, 1966

INTEGRATED

Velocity Services Ltd.

APP. 1/

297

.018

+.007

.005

Well ATLANTIC COL. CAR. MANITOU LAKE L - 61

Record No. 7 WELL GEOPHONE

Well Geophone Depth 5663 ft. (K.B.)

Shot Point 4 Amp. Gain % 95 %

Charge 10 lbs. Shot Depth 47 ft.

Filter 64 - 30 Geo./Trace 3

Date February 1, 1966

INTEGRATED

Velocity Services Ltd.

.305

.018

+.009

.004

VELOCITY TEST RECORDS
ATLANTIC COL CAR MANITOU LAKE
L-61

DAILY DRILLING REPORT — REPORT NO. — DATE Feb-5-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co	Atlantic Coal Co Mansion Lake	1-61	N W T	Can	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S & T DRILLING CO. LTD.				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. L. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	14
2.	National	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42-11	17	504		499
8 5/8		24 J			372	2948

REMARKS: TIGHT HOLE PRIVATE Cement to surface

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			8
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & 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	7	1	
DRILL STEM TEST			
OTHER	1	7	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	9	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1	Fill 700 ft. + Run #1 & #2
1:00	2:00	1	W.O.E.
			Plug #5, 2700'-2370', cemented with 40 sx cement plug #3 & #4. Plug in place @ 1:00 AM

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER W. D. Lee

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	9:00	1	W.O.A.
9:00	9:15	1/4	Felt Plug #5
9:15	1:00	3 3/4	Lay Down Drill Pipe
1:00	4:00	3	R.U. out BOPS
			Felt plug #5 @ 2270' in 8 hrs

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11:00	7:00	3	R.U. out BOPS
7:00			Cement Rat Hole Mouse Hole
			Put 10 sxs cement in side Csg
			& weld plate on top
	12:00	13	Tear out Rig For moving
S+T Rig 1E released from Atlantic Coal Co Mansion Lake No 1-61 at 11:59 PM 2/5/66 N.W.T. W. D. Lee			

DAILY DRILLING REPORT — REPORT NO. — DATE FEB-4-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC CAL CAR MANITOU LAKE	L-61	N W J	CAN	PRIVATE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.					

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Neil Timms

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42#	17	504		499	TIGHT HOLE CEMENT TO SURFACE
	8 5/8		27#			1392	1398	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & 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	6½	7	7½
DRILL STEM TEST			
OTHER	1½	1	½
FISHING	4		
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	24	9	15

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	5 qts		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
5⁰⁰	6³⁰	1½	Feel Plug No 2 Full 1200 FEET Run Plug No. 3
12⁰⁰	5⁰⁰	5	W.O.C
6³⁰	8⁰⁰	1½	W.O.C
			Felt plug #2 @ 4585'
			Ran plug #3 3400–3500 with 50 sx Oilwell
			cement. Plug in place @ 6.30 AM

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER N. Patton

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:⁵⁰	1:30	6½	W.OC
1:⁵⁰	3:30	1	Full 500' Ft. Run 6" Log = 4.
3:30	4:⁰⁰	½	W.OC.
			Felt plug #3 @ 3375'
			Ran plug #4, 2898–2998 with 50 sx Oilwell
			cement. Plug in place @ 3.30 P.M.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:⁵⁰	11:³⁰	7½	W.OC
11:³⁰	12:⁰⁰	½	Feel Plug #4
			Felt plug # 4 @ 2880
			Ran plug # 5, 2310–2375 with 40 sx
			Oilwell cement plus 2% Ca Cl₂.
			Plug in place @ 1:00 AM Feb 5, 1966

DAILY DRILLING REPORT — REPORT NO. — DATE Feb-3-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co	Atlantic Col Car Manitou Lake	L-16	N W T	Can	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.			4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. S. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K 380	14
2.	National	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		42-11	17	504		499
8⅝		27 J			1392	2748

PRIVATE
CEMENT TO SURFACE
TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT ORDERS	7¾	7¾	1¼
DRILL STEM TEST			
OTHER			6¾
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	1 gal	AT 1100	A.M.
CRONOX	1 gal	AT 7:00	A.M.

DRILLER: A Parsken

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	8 00	0	Rig SERV WAIT ON ORDERS & CIRC

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	1 GAL	AT 1:00	P.M.

DRILLER: L. V. Olson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
					Circ.			5½		5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00			SERVICE RIG. WAIT ON ORDERS & CIRC, CHECK TRIP
	4.00	8	HOT OFFS

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUM	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
Plug #1, 5607-5657, cemented with 50 sx Oilwell cement												
Plug in place @ 8:00 PM.												
Plug #2, 4600-4700, cemented with 50 sx Oilwell cement												
Plug #2 in place @ 9:00 PM 2/3/66												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	5.30	1½	SERV. RIG. WAIT ON ORDERS
5.30	6.00	½	BLOW KELLY, TOH
6.00	7.00	2	RIG UP TO RUN & LOG & RUN PLUG #1
7.00	9.00	1	PULL 950 FEET. RUN PLUG NO-2
9.00	12.00	3	W.O.C

DAILY DRILLING REPORT — REPORT NO. — DATE 2-23-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC COL CAR MANTION LAKE L-6		NWT	CAN	TIGHT HOLE

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO.

DRILL PIPE STRING: NO. — SIZE 4½ — TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-11	17	504	499	499	CEMENT TO SURFACE
8 5/8		24-J			1792	2948	PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1½		
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	½		
RUNNING CASING & CEMENTING			
WAITING ON CEMENT ORDERS	6¾	7¾	8
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING 50000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER J Davidson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	8 00	8	Rig - serv wait on orders
			Ran 30 stds in hole break circ

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING 50000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	1 GAL		

DRILLER J. Davidson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	4.00	1	Serv. Rig wait on orders

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	1 GAL.		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	12 00	8	Serv. Rig wait on orders

DAILY DRILLING REPORT

REPORT NO. _____ DATE FEB-1 66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC COL CAR MANTION LAKE	261	NWT	CAN	TIGHT HOLE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E		4"		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W B Nixon

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42-11	17	504		499	CEMENT TO SURFACE
	8 5/8		24-J			1392	2948	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	2 1/4		
TRIPS	2 3/4		
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	5	8	6
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP	7		
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
58	STANDS D.P.	5480.3 FT.
	SINGLES D.P.	FT.
6	D.C. 24 I.D. 6 1/4 O.D.	165.75 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	12.00 FT.
	TOTAL	5687.61 FT.
WT. OF STRING	94000	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12
WEIGHT	94
VISC.-SEC	24
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CROMOX	2 gal		

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
5657							1150	5 1/2	67			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	Circ
1215	300	2 3/4	Trip out strip pipe w/ Cromox
300	800	5	Rig up to Log & Log w/ Schlumberger
Schlumberger			Ran Bore Hole Compensated Sonic Gamma Ray 2"+5", 2948-5656.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
700			LOGGING W/ SCHLUMBERGER
			Ran Micro Laterolog Pad Type 2"x5" 2948-5656
			Ran Conductivity Laterolog 2"x5" 2948-5656
			5546' & 5653'
			Velocity Survey shots @ 2500' 3200' 4000' 4500' 5189'

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	1000	6	Logging w/ SCHLUMBERGER
1000	1030	1/2	Lay Down Logging Equipment
1030	1200	1 1/2	Wait on orders

DAILY DRILLING REPORT

REPORT NO. | DATE JAN-31-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC COL CAR MANTION LAKE	L-64	N W T	CAN	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.			5"		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	
2.	NATIONAL	K 380	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	11	504		499	TIGHT HOLE
9 5/8		24-J			1392	2948	CEMENT SET TO SURFACE
							PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	1½		
REAMING			
CONDITIONING MUD & CIRCULATING	4½		
TRIPS	2		7¼
LUBRICATE RIG			¼
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		8	
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
53	STANDS D.P.	5004.31 FT.
2	SINGLES D.P.	62.94 FT.
20	D.C. 7¾ I.D. 6¼ O.D.	501.13 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS 6¼ O.D.	4.00 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	25.00 FT.
	TOTAL	5657 FT.
WT. OF STRING	100,000	LBS.

BIT RECORD		
BIT NO.	RERUN 34	34
SIZE		7⅞
MFG.		SEC
TYPE		H7WJ
NOZZLE NO.		3
NOZZLE SIZE		12
SER. NO.		705046
DEPTH OUT		5657
DEPTH IN		5570
TOTAL FTG.		87
TOTAL HR. RUN		5½
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	12:00	4:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP.	72	76	78

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	12 gals		
CRONOX	1 Can	FOR	Pill

DRILLER: A Pinchbeck

FOOTAGE FROM	FOOTAGE TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
5651	5657	6			40	6000	1450	5½	67			
							1600					

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	1 30	1½	Drlg 7⅞" HOLE
1 30	3 30	2	PUMP OUT 4 SINGLES TRIP OUT TO 2948
3 30	8 00	4½	PICK UP KELLY & CIRC IN CASG

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cronox	2 gals		

DRILLER

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	¼	RIG SERV
8 15	11 15	3	CIRC.
11 15	12 00	¾	TRIP OUT
12 00	3 00	2	LAY DOWN D.C. 16
3 00	4 00	1	LAY CORE RBLS DOWN
			Wait on logging equipment

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cronox	2 gals		

DRILLER

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
						2						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SERV
4 15	7 00	2¾	TOOK D.C & CORE RBLS OF RACKS
7 00	9 15	2¼	TRIP IN
9 15	12 00	2¾	CLEAN 10 FEET TO BOTTOM CIRC & WORK PIPE
11 00	12 00	1	~~TRIP OUT TO LOG~~
			Wait on logging equipment

DAILY DRILLING REPORT

REPORT NO. _____ DATE JAN-30-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC CON CAR MANTION LAKE	2-61	NEW T	CAN	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S & T DRILLING CO. LTD.	1E		4"	

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tom B Hamm

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14"
2.	NATIONAL	K 380	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42-1	17	504		499
8 5/8		24 J		1342	K	2948

TIGHT HOLE
CEMENT TO SURFACE
PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			2 3/4
REAMING			1 1/4
CONDITIONING MUD & CIRCULATING			
TRIPS	7 1/4	3	2 1/4
LUBRICATE RIG		1/4	1/4
DEVIATION SURVEY	1/4		
TEST B.O.P.			
CUT OFF DRILLING LINE			1 1/2
REPAIR RIG			
CORING		3 3/4	
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		1	1/2
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
52	STANDS D.P.	4991.06 FT.
	SINGLES D.P.	FT.
20	D.C. 2 1/4 I.D. 6 1/4 O.D.	561.13 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	64.40 FT.
	JARS	6.10 FT.
	KELLY DOWN	29.00 FT.
	TOTAL	5570 FT.

WT. OF STRING 110 000 LBS.

BIT RECORD	
BIT NO.	RERUN 1
SIZE	6 1/8
MFG.	CHRIS
TYPE	DYM
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	EC10509
DEPTH OUT	
DEPTH IN	5570
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	12:00	4:00	6:00
WEIGHT	8.4	T	
VISC.-SEC	28	K	
W.L.-C.C.			I
FLTR. CK.			P
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD. TEM. 70			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CROMOX	2 gal	FOR PIPE STRIPPING	

DRILLER: J Davidson

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5570												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5570	2 1/2							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 ~~15~~	2 45	2 1/2	TRIP OUT TO CUT CORE
12 00	12 15	1/4	SURVEY & RIG SERV
2 45	4 30	1 3/4	PICK UP CORE BARREL & SERVICE
4 30	7 15	2 3/4	RUN IN HOLE
7 15	8 00	3/4	CIRC

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
52	STANDS D.P.	4991.06 FT.
	SINGLES D.P.	FT.
20	D.C. 2 3/4 I.D. O.D.	561.13 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	64.40 FT.
	JARS	6.10 FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING 180 000 LBS.

BIT RECORD	
BIT NO.	RERUN 1
SIZE	6 1/8
MFG.	CHRIS
TYPE	DYM
NOZZLE NO.	11
NOZZLE SIZE	11
SER. NO.	EC10509
DEPTH OUT	
DEPTH IN	5570
TOTAL FTG.	5631
TOTAL HR. RUN	5 3/4
COND. OF BIT	6 1 I
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	8.00		
WEIGHT	8.4		
VISC.-SEC	28		
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP 60		1h	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	Salt		
2 sack	Caustic to stop		
	of pipe		

DRILLER

FOOTAGE FROM	FOOTAGE TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5570	5631	61	2				725			5 1/2	40	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 15	1/4	RIG SERV Core #2, 5570-5631
8 15	12 00	3 3/4	CORING Recovered 30'
12 00	3 00	3	TRIP OUT
3 00	4 00	1	RECOVER CORE

BIT NO-34 RERUN REAMED FROM 5570 to 5631 1 1/4 HRS
DRLG FROM 5631 to 5658 - 26 FEET ~~4~~ HOURS 4 1/2
TOTAL HRS 9 1/2 DRLG 1 1/4 REAMING

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
53	STANDS D.P.	5004.31 FT.
2	SINGLES D.P.	62.99 FT.
20	D.C. 2 1/4 I.D. 6 1/4 O.D.	561.13 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS 6 1/4 O.D.	4.00 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	19.00 FT.
	TOTAL	5631 FT.

WT. OF STRING 100 000 LBS.

BIT RECORD	
BIT NO.	RERUN 34
SIZE	7 7/8
MFG.	SEC.
TYPE	HTW
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	705014
DEPTH OUT	5631 Drlg
DEPTH IN	5570
TOTAL FTG.	61
TOTAL HR. RUN	4 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	8:00	10:00	
WEIGHT	8.4	8.4	
VISC.-SEC	28	28	
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD. TEMP. 70		72	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	1 gal	at 9:00 PM	
	1		

DRILLER

FOOTAGE FROM	FOOTAGE TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5570	5631	61		REAMED 1 1/4 HRS	40	6000	1200	5 1/2	67			
5631	5651	20	Drlg	2 3/4 "	40	6000	1200	5 1/2	67			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	5 30	1 1/2	SLIP 1 FT DRLG LINE
5 30	5 45	1/4	SERV RIG & TRK
5 45	8 00	2 1/4	TRIP IN
8 00	9 15	1 1/4	REAM 6 1/4" RAT HOLE TO 7 7/8" FROM 5570 to 5631
9 15	12 00	2 3/4	DRLG 7 7/8" HOLE

Check Dev @ 9:00 P.M 7 1/4 500 P.S.I M

DAILY DRILLING REPORT — REPORT NO. — DATE JAN-29-66

OPERATOR: ATLANTIC REF CO
LEASE: ATLANTIC COL CAR MANTIOU LAKE
WELL NO.: L-141
FIELD OR DIST.: NWT
COUNTY: CAN
STATE: PRIVATE

CONTRACTOR: S & T DRILLING CO. LTD.
RIG NO.: 1E

DRILL PIPE STRING: NO. — SIZE 4½ — TOOL JOINT O.D. — TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
	11 3/4		42-H	17	502		499
	8 5/8		24-J			1392	2918

REMARKS: TIGHT HOLE CEMENT TO SURFACE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A Donahue
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

TIME DISTRIBUTION — HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6¾	11½	4
REAMING		1½	
CONDITIONING MUD & CIRCULATING		¾	1
TRIPS		4¾	1¼
LUBRICATE RIG	¼	½	
DEVIATION SURVEY		¾	
TEST B.O.P.		¼	
CUT OFF DRILLING LINE		1	
REPAIR RIG	1		1½
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
51	STANDS D.P.	4816.38 FT.
1	SINGLES D.P.	31.78 FT.
22	D.C. 2¾ I.D. 6¼ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7⅞ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6⅝ O.D.	1.89 FT.
	BIT OR C.B.	FT.
	SUNK SUB	2.05 FT.
	KELLY DOWN	12.00 FT.
	TOTAL	5472 FT.

WT. OF STRING: 110 000 LBS.

BIT RECORD

BIT NO.	33
SIZE	7⅞
MFG.	REED
TYPE	YCH L
NOZZLE NO.	3
NOZZLE SIZE	2-10 1-12
SER. NO.	E64526
DEPTH OUT	5472 Daly
DEPTH IN	5298
TOTAL FTG.	174
TOTAL HR. RUN	19¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	2:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEM.	74	74	76

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CROMOX	5 qts		
at 400 cm			

DRILLER: A Donahue

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.-S PAR.EL.-P COMP'D.-C
5407	5472	65			44	32	1300	5½	67			
					46	32	1300	✓	67			
					40	32	600	✓	70			

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	Rig SERV CHECK HYDRIL
12:15	4:45	4½	Drlg 7⅞" HOLE
4:45	5:45	1	WORK ON NO-1 PUMP PRESSURE DROPED TO LOW ON CHECK VALVES + HEAD
5:45	8:00	2¼	Drlg 7⅞" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
51	STANDS D.P.	4811.25 FT.
7	SINGLES D.P.	63.49 FT.
22	D.C. 2¾ I.D. 6¼ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7⅞ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	1.89 FT.
	BIT OR C.B.	FT.
	JUNK SUB	FT.
	KELLY DOWN	11.00 FT.
	TOTAL	5500 FT.

WT. OF STRING: LBS.

BIT RECORD

BIT NO.	33	34
SIZE	7⅞	7⅞
MFG.	REED	SEC
TYPE	YCHJ	HPNJS
NOZZLE NO.	2-10 1-12	3
NOZZLE SIZE		12
SER. NO.	E64531	705011
DEPTH OUT	5500	
DEPTH IN	5298	5500
TOTAL FTG.	202	
TOTAL HR. RUN	3½	
COND. OF BIT	4-4-BT-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.00	
WEIGHT	8.4	
VISC.-SEC	28	
W.L.-C.C.		1.0
FL.TR. CK.		Dom
PH		
SD. CONT. %		5 0 5
PRESSURE GRADIENT		7 1 1
MUD TEMP.	78	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
	5 qts	1 3 Rm.	
2 1	11		
3 lbs			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.-S PAR.EL.-P COMP'D.-C
5432	55[illegible]	28			40	34	1.00	5½	90	5½		

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:30	1½	DRLG 7⅞ HOLE
9:30	10:00	½	RIG SERV CIRC. TO CLEAN HOLE
10:00	12:30	2½	STRAP OUT
12:30	12:45	¼	CHECK BOP'S CLOSE BLIND RAMS
12:45	1:45	1	SLIP LINE
1:45	4:00	2¼	RUN IN HOLE

STRAP OUT 5534.81 Dif. 3.96 MADE ERR
PIPE TALLY 5538.29 " TALLY 5538 OUT 5532 TO TAG

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
52	STANDS D.P.	4912.31 FT.
1	SINGLES D.P.	30.99 FT.
22	D.C. 2¾ I.D. 6⅛ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7⅞ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6⅝ O.D.	1.89 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	12.00 FT.
	TOTAL	5570 FT.

WT. OF STRING: 110 000 LBS.

BIT RECORD

BIT NO.	34
SIZE	7⅞
MFG.	SEC
TYPE	HPNJS
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	705011
DEPTH OUT	5570
DEPTH IN	5500
TOTAL FTG.	70
TOTAL HR. RUN	4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6:00	10:00
WEIGHT	84	84
VISC.-SEC	28	28
W.L.-C.C.		
FL.TR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		
MUD TEMP.	70	68

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CROMOX	6 qts.		

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.-S PAR.EL.-P COMP'D.-C
5500	5570	70					900	5½		5½	68	

DEVIATION RECORD: DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION — DEPTH — DEV. — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS.
4:00	5:30	1½	TRIP IN
5:30	7:30	2	DRLG 7⅞ HOLE
7:30	9:00	1½	CHANGE HEAD RUBBERS ON NO 2 PUMP 5½"
9:00	11:00	2	Drlg 7⅞" HOLE
11:00	12:00	1	Circ

Drilled 2000 PSI

DAILY DRILLING REPORT — REPORT NO. 1 — DATE JAN-28-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC COL CAR MANTUA LAKE	L-61	NWT	CAN	PRIVATE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	
2.	NATIONAL	K 380	
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	
	11 3/4		42-H	17	504		491	CEMENT TO SURFACE
	8 5/8		24-J			1392	2418	

TIME DISTRIBUTION—HOURS

	MID-2N	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4 3/4	5	8
REAMING			
CONDITIONING MUD & CIRCULATING		1/4	
TRIPS	2 1/2	2 1/4	
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY	1/4		
TEST B.O.P.		1/2	
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER WORK JUNK SUB	1/4		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SKABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
49	STANDS D.P.	4627.22 FT.
1	SINGLES D.P.	315 FT.
22	D.C. 2 3/4 I.D. 6 1/4 O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 7/8 O.D.	6.15 FT.
	STB. BODY 7 7/8 O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6 5/8 O.D.	1.89 FT.
	BIT OR C.B.	FT.
	JUNK SUB	2.05 FT.
	KELLY DOWN	28.000 FT.
	TOTAL	5298 FT.
	WT. OF STRING	104 000 LBS.

BIT RECORD

BIT NO.	32
SIZE	7 7/8
MFG.	REED
TYPE	YCHG
NOZZLE NO.	3
NOZZLE SIZE	2-10 1-12
SER. NO.	E64524
DEPTH OUT	5298
DEPTH IN	5046
TOTAL FTG.	252
TOTAL HR. RUN	29 1/4
COND. OF BIT	7BD
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12:00	4:00	6:00
WEIGHT	8.4	8.4	
VISC.-SEC	28	26	
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUDTEMP	74	76	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	5 gls	at 11:00 AM	

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5249	5298	49			40	32	1250	5 1/2	55			
					40	32	1250		68			
					40	32	1250		68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	5298	2 1/2							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	Rig SERV CHECK HYDOIL
12 00	5 00	4 3/4	DRLG 7 7/8" HOLE
5 00	5 15	1/4	WORK JUNK SUB
5 15	5 30	1/4	WORK JUNK SUB SURVEY
5 30	7 00	2 1/2	TRIP OUT

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	4627.22 FT.
	SINGLES D.P.	63.00 FT.
22	D.C. 2 3/4 I.D. 6 1/4 O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 7/8 O.D.	6.15 FT.
	STB. BODY 7 7/8 O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6 5/8 O.D.	1.89 FT.
	BIT OR C.B.	FT.
	JUNK SUB	2.05 FT.
	KELLY DOWN	35 FT.
	TOTAL	5338 FT.
	WT. OF STRING	104 000 LBS.

BIT RECORD

BIT NO.	33
SIZE	7 7/8
MFG.	REED
TYPE	YCHG
NOZZLE NO.	3
NOZZLE SIZE	2-10 1-12
SER. NO.	E64526
DEPTH OUT	
DEPTH IN	5298
TOTAL FTG.	40
TOTAL HR. RUN	3
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8:00	11:00	3:00
WEIGHT		8.4	8.4
VISC.-SEC		28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUDTEMP		70	70

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cronox	5 gls		

DRILLER S. Adcock

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5298	5338	40			110	30	1415	5 1/2	67			
					40	32	1450		67			
					40	34	1450		67			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~5 00~~			~~DRLG 7 7/8 HOLE~~
8 00	8 30	1/2	RIG SER CHECK BOP BLIND RAMS
8 30	10 45	2 1/4	RUN IN HOLE
10 45	11 00	1/4	WORK JUNK SUB
11 00	4 00	5	DRLG 7 7/8 HOLE 21

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
50	STANDS D.P.	1721.54 FT.
1	SINGLES D.P.	31.51 FT.
22	D.C. I.D. O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 7/8 O.D.	6.15 FT.
	STB. BODY 7 7/8 O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6 5/8 O.D.	1.89 FT.
	BIT OR C.B.	FT.
	JUNK SUB	2.05 FT.
	KELLY DOWN	42.00 FT.
	TOTAL	5407.69 FT.
	WT. OF STRING	108.000 LBS.

BIT RECORD

BIT NO.	33
SIZE	7 7/8
MFG.	REED
TYPE	YCHG
NOZZLE NO.	3
NOZZLE SIZE	2-12 1-12
SER. NO.	E64526
DEPTH OUT	5407
DEPTH IN	5298
TOTAL FTG.	109
TOTAL HR. RUN	13
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	5:00	8:00	10:00
WEIGHT	8.11	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUDTEMP	ND	72	72

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	5 gls		

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5338	5407	69			40	34	1350	5 1/2	67	5 1/2		
					40		1350	5 1/2	67			
					40		1350	5 1/2	67			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	8 00	4	DRLG 7 7/8 HOLE

DAILY DRILLING REPORT — REPORT NO. — DATE JAN-27-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC REF CO CARMANTION LAKE	L-61	N W T	CAM	TIGHT HOLE PRIVATE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E		4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Dunbar

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42-H	17	504		499	CEMENT TO SURFACE
	8 5/8		24-J			1392	1948	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¼	7¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG		½	½
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
47	STANDS D.P.	4439.36 FT.
1	SINGLES D.P.	31.70 FT.
22	D.C. 2¼ I.D. 6¼ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7¾ O.D.	4.43 FT.
	RMR. BODY O.D.	1.87 FT.
	SUBS 6½ O.D.	FT.
	BIT OR C.B.	FT.
	JUNK SUB 5½	2.05 FT.
	KELLY DOWN	40.00 FT.
	TOTAL	5122 FT.
WT. OF STRING	104 M	LBS.

BIT RECORD		
BIT NO.		32
SIZE		7⅞
MFG.		REED
TYPE		YCHC
NOZZLE	NO.	3
	SIZE	2-10 1-12
SER. NO.		E64524
DEPTH OUT		5122 DRLG
DEPTH IN		5046
TOTAL FTG.		76
TOTAL HR. RUN		18
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	2:00	4:00	6:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP.	68	70	72

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	5 qt	430 A.M.	

DRILLER

FOOTAGE FROM	FOOTAGE TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5062	5122	60			40	26	1500	5½	67			
					40	30	1650	5½	67			
					46	32	1400	5½	67			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12	12¼	¼	R.g SERV. CHECK HYDRILL
12¼	8:00	7¾	DRLG 7⅞ HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
48	STANDS D.P.	4575.11 FT.
1	SINGLES D.P.	31.50 FT.
22	D.C. 2¼ I.D. 6¼ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7¾ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6½ O.D.	1.59 FT.
	BIT OR C.B.	FT.
	JUNK SUB	2.05 FT.
	KELLY DOWN	40 FT.
	TOTAL	5188 FT.
WT. OF STRING	104 M	LBS.

BIT RECORD		
BIT NO.		32
SIZE		7⅞
MFG.		REED
TYPE		YCHC
NOZZLE	NO.	3
	SIZE	2-10 1-12
SER. NO.		E64524
DEPTH OUT		
DEPTH IN		5046
TOTAL FTG.		142
TOTAL HR. RUN		17¼
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	8:00	11:00	2:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP.	75	73	70

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER J Blank

FOOTAGE FROM	FOOTAGE TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5122	5188	66			40	32	1300	5½	68	5½		
					40	34	1350		1.28			
					40	34	1300		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	RIG SERV CHECK HYDRILL
8:15	3:30	7¼	DRLG 7⅞ HOLE
3:30	4:00	½	WORK ON NO 1 PUMP CHANG HEAD

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
48	STANDS D.P.	4582.1 FT.
2	SINGLES D.P.	62.40 FT.
	D.C. 2¼ I.D. 6¼ O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7⅞ O.D.	6.15 FT.
	STB. BODY 7¾ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
	SUBS 6½ O.D.	1.87 FT.
	BIT OR C.B.	FT.
	JUNK SUB	2.05 FT.
	KELLY DOWN	42.00 FT.
	TOTAL	5249 FT.
WT. OF STRING	104 000	LBS.

BIT RECORD		
BIT NO.		32
SIZE		7⅞
MFG.		REED
TYPE		YCHC
NOZZLE	NO.	3
	SIZE	2-10 1-12
SER. NO.		
DEPTH OUT		
DEPTH IN		5046
TOTAL FTG.		203
TOTAL HR. RUN		24½
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	5:00	8:00	10:00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP.	70	72	72

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Ironite	5 qt		

DRILLER

FOOTAGE FROM	FOOTAGE TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5188	5249	61			40	34	1300	5½	68	5½		
					40	32	1250	5½	68			
					40	32	✓	✓	✓			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERV
4:15	4:45	½	WORK NO 1 PUMP
4:45	12:00	7¼	DRLG 7⅞ HOLE

DAILY DRILLING REPORT — REPORT NO. — DATE JAN-26-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC REF CO CAR MANTIOBA LAKE	L 61	NWT	CAN	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E		4½		

REMARKS: ~~TIGHT HOLE~~ PRIVATE — CEMENT TO SURFACE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 350	14
2.	NATIONAL	K 350	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		42-11	17	504		499
8⅝		24-J			1392	2948

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
46	STANDS D.P.	4346.16 FT.
1	SINGLES D.P.	29.84 FT.
22	D.C. 2¾ I.D. 6¼ O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY 7⅞ O.D.	6.36 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	37.00 FT.
	TOTAL	5020 FT.
WT. OF STRING	104000	LBS.

BIT RECORD

BIT NO.		31
SIZE		7⅞
MFG.		Hughes
TYPE		R67X
NOZZLE	NO.	3
	SIZE	11
SER. NO.		36789
DEPTH OUT		5020
DEPTH IN		4731
TOTAL FTG.		289
TOTAL HR. RUN		27
COND. OF BIT		8-5-2
REAMER NO.		8-5-2
REAMER TYPE		

MUD RECORD

TIME	12	2
WEIGHT	9.4	9.4
VISC.-SEC	28	29
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A Davidson

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4995	5020	25			40	32	1250	5½	67			
					40	28	1250	5½	67			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5020	¾°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Rig SERV CHECK HYDRILL
12.15	3.45	3½	DRLG 7⅞" HOLE
3.45	4.00	¼	~~TR~~ SURVEY
4.00	6.15	2¼	TRIP OUT
			CHECK BLIND RAMS MAKE UP BIT JUNK
6.15	7.00	¾	UP REAMER
7.00	8.00	1	RAN IN HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
46	STANDS D.P.	4346.16 FT.
2	SINGLES D.P.	11.52 FT.
22	D.C. 2¾ I.D. 6¼ O.D.	1.11.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 O.D.	FT.
	STB. BODY 7 O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	27.00 FT.
	TOTAL	5046 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	28 RERUN 14	32	33
SIZE	7⅞	7⅞	7⅞
MFG.	HW	REED	
TYPE	RAG-7	YC46	
NOZZLE NO.	3	3	
NOZZLE SIZE	11	2-10 2-10	
SER. NO.	47387		
DEPTH OUT	5046		
DEPTH IN	5020		
TOTAL FTG.	26		
TOTAL HR. RUN	4½		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	10.00	11.00	2.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD TEMP	70	70	68

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cromox	1 gal.		

DRILLER: LEO BELISLE

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORS RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5020	5046	26			48	30	1175	5½	1.5	5½		
							1000		1.8			
							950		1.8			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.45	1¾	FINSH RUNNING IN
9.45	10.15	½	RIG SERVICE CHECK B.O.P.S + TIGHTEN BRAKES
10.15	10.30	¼	~~DRLG 7⅞ HOLE~~ WORK JUNK SUB - CLEAN TO BOTTUM
10.30	3.00	4½	DRLG 7⅞ HOLE
3.00	4.00	1	PULL OUT
~~4.00~~	~~4.15~~	¼	~~LAY DOWN REAMER CHECK BLIND RAMS~~

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
47	STANDS D.P.	4439.36 FT.
	SINGLES D.P.	FT.
22	D.C. I.D. O.D.	597.01 FT.
	D.C. I.D. O.D.	FT.
1	STB. 7⅞ BODY O.D.	6.13 FT.
1	STB. BODY 7⅞ O.D.	4.83 FT.
	RMR. BODY O.D.	FT.
1	SUBS 6¾ O.D.	1.89 FT.
	BIT OR C.B.	FT.
1	JUNK SUB	2.05 FT.
	KELLY DOWN	11.00 FT.
	TOTAL	5046 FT.
WT. OF STRING	104 000	LBS.

BIT RECORD

BIT NO.		32
SIZE		7⅞
MFG.		REED
TYPE		YC46
NOZZLE NO.		3
NOZZLE SIZE		2-10 1-12
SER. NO.		E64524
DEPTH OUT		
DEPTH IN		5046
TOTAL FTG.		16
TOTAL HR. RUN		2¼
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10.00	11	12
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD. TEM.	68		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
5046	5046	16			40	25	1500	5½	67			
					40	28	1500	5½	67			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~5.45~~	~~6.00~~	~~¼~~	~~SLIP + CUT LINE~~
4.00	5.30	1½	TRIP OUT CHECK FOR WASH OUT
5.30	5.45	¼	LAY DOWN REAMER & CHECK BLIND RAMS
5.45	6.45	1	SLIP CUT LINE
6.45	9.30	2¾	TRIP IN HOLE
9.30	9.45	¼	WORK JUNK SUB
9.45	12.00	2¼	DRLG 7⅞ HOLE

COMPLETION WORK

A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	16	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3½	4½	2¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	4	2¾	4½
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.	¼	¼	¼
CUT OFF DRILLING LINE			1
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			

DAILY DRILLING REPORT

REPORT NO. _____ DATE JAN-25-66

OPERATOR: ATLANTIC REF CO

LEASE: ATLANTIC REF CO CAR MANITOU LAKE

WELL NO. L-61 | FIELD OR DIST. N W T | COUNTY CAN | STATE PRIVATE

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO. _____

DRILL PIPE STRING: NO. _____ SIZE 4½ | TOOL JOINT O.D. _____ TYPE THD. _____

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Dewdney

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	11 ¾		42-11	17	504		499	TIGHT HOLE CEMENT TO SURFACE
TUBING OR LINER	8 ⅝		24-J			4392	2926	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¼	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO. _____

NO. OF LINES _____ SIZE _____

FEET SLIPPED _____

FEET CUT OFF _____

PRESENT LENGTH _____

TON MI. OR TRIPS SINCE LAST CUT _____

CUMULATIVE TON MI. OR TRIPS _____

NO. OF DAYS FROM SPUD _____

CUMULATIVE ROTATING HRS. _____

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
44	STANDS D.P.	4810.73 FT.
1	SINGLES D.P.	31.65 FT.
	D.C. I.D. O.D.	FT.
22	D.C. 2¾ I.D. 6¼ O.D.	611.93 FT.
	STB. BODY 7 O.D.	FT.
	STB. BODY 7 O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	25.00 FT.
	TOTAL	4825 FT.
WT. OF STRING	104,000	LBS.

BIT RECORD

BIT NO.	31
SIZE	7⅞
MFG.	Hughes
TYPE	RC-7X
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	36789
DEPTH OUT	4824
DEPTH IN	4731
TOTAL FTG.	94
TOTAL HR. RUN	8
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

	2	4	6
TIME			
WEIGHT	8.4	8.4	8.4
VISC.—SEC	28	28	25
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CROMOX	1GAL		

DRILLER C Pomahac

FOOTAGE

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
4734	4825	91			40	26		5½	125			
					40	30		5½	125			
					40	30			125			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4731	3							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	Rig serv. check Hydrill
12 15	8 00	7¾	Drlg 7⅞ hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
45	STANDS D.P.	4273.25 FT.
	SINGLES D.P.	FT.
22	D.C. 2¾ I.D. 6¼ O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 O.D.	FT.
	STB. BODY 7 O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	40 FT.
	TOTAL	4911 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	31
SIZE	7⅞
MFG.	Hughes
TYPE	RC-7X
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	36789
DEPTH OUT	
DEPTH IN	4731
TOTAL FTG.	
TOTAL HR. RUN	15¼
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

	8.00	11.00	2.00
TIME			
WEIGHT	8.4	—	—
VISC.—SEC	28	✓	—
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cromox	1 gal at 11.00 A.M.		

DRILLER S Belisle

FOOTAGE

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
4825	4904	79			WO	30	1275	5½		5½	67	
					40	32	1275				67	
					40	34	1275				67	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8	8 15	¼	R.C Serv Check BOP
8 15	4 00	7¾	Drlg 7⅞ Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
46	STANDS D.P.	4346.16 FT.
22	SINGLES D.P.	FT.
22	D.C. 2¾ I.D. 6¼ O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 7 O.D.	FT.
	STB. BODY 7 O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	37.00 FT.
	TOTAL	4995 FT.
WT. OF STRING	104,000	LBS.

BIT RECORD

BIT NO.	31
SIZE	7⅞
MFG.	Hughes
TYPE	RC7X
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	36789
DEPTH OUT	4995
DEPTH IN Drlg	4731
TOTAL FTG.	264
TOTAL HR. RUN	23½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

	1.00	8.00	10
TIME			
WEIGHT	8.4	84	84
VISC.—SEC	28	28	28
W.L.—C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cromox	1 gal. at 7.00 P.M.		

DRILLER

FOOTAGE

FROM	TO	DR. D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
4904	4995	91			WO	34	1275	5½	67	5½	67	
					40	30	1275	✓	67			
					40	32	1275	✓	67			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11 00	4 15	¼	R.C Serv
4 15	12 00	7¾	Drlg 7⅞ Hole

DAILY DRILLING REPORT — REPORT NO. — DATE JAN-2[illegible]-6[illegible]

OPERATOR: ATLANTIC REF CO
LEASE: ATLANTIC REF CO. CAR MANTOUN LAKE
WELL NO.: L-61
FIELD OR DIST.: NWT
COUNTY: CAN
STATE: TIGHT HOLE

CONTRACTOR: S & T DRILLING CO. LTD.
RIG NO.: 15
DRILL PIPE STRING: NO. 4, SIZE — TYPE THD. — TOOL JOINT O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4	F7	42-11	17	504		499	CEMENT TO SURFACE
9 5/8		24-J			13'-2"-RT		PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 3/4	7 3/4	1
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			6
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY			1/4
TEST B.O.P.			
CUT OFF DRILLING LINE			1/2
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1/4
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD
REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
42	STANDS D.P.	3968.66 FT.
	SINGLES D.P.	FT.
11	D.C. 2 3/4 I.D. 6 1/4 O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	4654 FT.
WT. OF STRING	99 000	LBS.

BIT RECORD

BIT NO.	30
SIZE	7 7/8
MFG.	Hughes
TYPE	RR.C-1
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	47586
DEPTH OUT	4654
DEPTH IN	4406
TOTAL FTG.	248
TOTAL HR. RUN	28
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	4	8
WEIGHT	94	94	94
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CRONOX	1 gal		

DRILLER: A Parker

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C
4562	4654	92

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		40	30	1050	5 1/2	67			
			32	1850	5 1/2	67			
			32	1500	5 1/2	66			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	Rig SERV CHECK HYDRILL
12.15	9.00	8	Drlg 7 7/8 Hole
			Circulating fluid = 3,400 PPM Chlorides

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
43	STANDS D.P.	4104.98 FT.
1	SINGLES D.P.	31.42 FT.
22	D.C. 2 3/4 I.D. 6 1/4 O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	20 FT.
	TOTAL	4227 FT.
WT. OF STRING	100 000	LBS.

BIT RECORD

BIT NO.	30
SIZE	7 7/8
MFG.	H.W.
TYPE	RRG-7
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	47586
DEPTH OUT	4727
DEPTH IN	4406
TOTAL FTG.	321
TOTAL HR. RUN	35 3/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	11.00	3.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	25	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cronox	1 gal		
1 gal Cronox before Trip			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C
4654	4727	73

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		40	30	1500	5 1/2		5 1/2	66	
		40	30	1500				66	
		40	30						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	1/4	RIG SERVICE CHECK B.O.P.S
8.15	4.00	7 3/4	DRLG 7 7/8 HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
43	STANDS D.P.	4062.48 FT.
1	SINGLES D.P.	31.42 FT.
22	D.C. I.D. O.D. 6 1/4	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	28.00 FT.
	TOTAL	4734 FT.
WT. OF STRING	106 000	LBS.

BIT RECORD

BIT NO.	30	31
SIZE	7 7/8	7 7/8
MFG.	H.W.	H.W.
TYPE	RRG-7	RG-7
NOZZLE NO.	3	3
NOZZLE SIZE	12	11
SER. NO.	47586	
DEPTH OUT	4731	
DEPTH IN	4406	
TOTAL FTG.	325	
TOTAL HR. RUN	36 1/4	
COND. OF BIT	441	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			12
WEIGHT			8.4
VISC.-SEC			28
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
2 gal Cronox TO WASH DOWN PIPE			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C
4727	4734	57

CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
		40	32	1500	5 1/2	66	5 1/2		
		40	26	1250	5 1/2	66			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4731	3							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.45	3/4	DRLG 7 7/8 HOLE 1130 TO 1145 WORK JUNK SUB 1/4
4.45	5.00	1/4	WORK JUNK SUB 1145 TO 1200 DRLG 1/4
5.00	5.15	1/4	SURVEY
5.15	8.30	3 1/4	TRIP OUT WASH DOWN PIPE WITH CRONOX
8.30	8.45	1/4	CHECK PIPE RAMS MAKE UP BIT
8.45	9.45	1	RUN IN DC
9.45	10.15	1/2	SLIP 75 DRLG LINE
10.15	11.30	1 1/4	RUN IN HOLE

DAILY DRILLING REPORT

REPORT NO. _____ DATE JAN 23-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF CO	ATLANTIC REF CO, CAR MANTON LEASE	2-61	~~M~~ ~~A~~ WT		

CONTRACTOR	RIG NO.
S & T DRILLING CO. LTD.	1E

DRILL PIPE STRING: NO. 4, SIZE — TOOL JOINT O.D. — TYPE THD.

PUMPS NO.	✓ MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42-11	17	504		499	TIGHT HOLE CEMENT TO SURFACE
	8 5/8		24-J			1392	2448	PRIVATE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	3 1/4		
DRILLING ACTUAL	3 1/4	6 1/2	6 1/2
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3 1/4		1/4
LUBRICATE RIG	1/4	1/2	
DEVIATION SURVEY			1/2
TEST B.O.P.	1/4		
CUT OFF DRILLING LINE			
REPAIR RIG		1 1/2	1/2
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	1/2		
FISHING			
COMPLETION WORK A. PERFORATING			1
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES _____ SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
40	STANDS D.P.	3779.57 FT.
	SINGLES D.P.	FT.
22	D.C. 2 3/4 6 1/4 I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	4433.50 FT.

WT. OF STRING 96 000 LBS.

BIT RECORD

BIT NO.	30 J
SIZE	7 7/8
MFG.	Hughes
TYPE	RR67
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	47586
DEPTH OUT	
DEPTH IN	4406
TOTAL FTG.	27
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		5	7
WEIGHT		8.4	8.4
VISC.-SEC		28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER A Pouchard

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COMP'D-C
4406	4433	27			32	6000	1050	5 1/2	67			
					40	28	1050	✓	67			
					40	30	1050	✓	67			

DEVIATION RECORD: DEPTH 4406, DEV. 4

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	115	1 1/4	FINISH TRIP OUT
115	130	1/4	Rig SERV
130	200	1/2	CHECK BLIND RAMS MAKE UP BIT CLEAN JUNK SUB
200	400	2	TRIP IN HOLE
400	415	1/4	WORK JUNK SUB
415	800	3 3/4	Drlg 7 7/8" HOLE

Circulating fluid - 3,600 PPM Chlorides

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
40	STANDS D.P.	3717.20 FT.
2	SINGLES D.P.	62.37 FT.
22	D.C. 2 3/4 6 1/4 I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	35 FT.
	TOTAL	4441 FT.

WT. OF STRING 94 000 LBS.

BIT RECORD

BIT NO.	30
SIZE	7 7/8
MFG.	Hughes
TYPE	RR67
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	47586
DEPTH OUT	
DEPTH IN	4406
TOTAL FTG.	84
TOTAL HR. RUN	10 1/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	11.00	2.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gumex	2 sks		
	1		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COMP'D-C
4123	4490	57	6 1/2		40	30	1050	5 1/2	67			
					40	35	1050	5 1/2	67			
					40	35						

DEVIATION RECORD: DEPTH —, DEV. —, DIRECTION —

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	Rig SERV CHECK M.P.
815	1130	3 1/4	DRLG 7 7/8 HOLE
1130	1215	3/4	CHANG RUBBER ON STAND PIPE
1215	1230	1/4	DRLG 7 7/8 HOLE
1230	100	1/2	WORK FLOAT, OILER
100	400	3	DRLG 7 7/8 HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
41	STANDS D.P.	3905.30 FT.
2	SINGLES D.P.	62.87 FT.
22	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	14.00 FT.
	TOTAL	4562 FT.

WT. OF STRING 98 000 LBS.

BIT RECORD

BIT NO.	30
SIZE	7 7/8
MFG.	Hughes
TYPE	RR67
NOZZLE NO.	3
NOZZLE SIZE	12
SER. NO.	47586
DEPTH OUT	4562 Drlg
DEPTH IN	4406
TOTAL FTG.	156
TOTAL HR. RUN	18 1/4
COND. OF BIT	4 4
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	11.00	8.00	12.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
C-30 MOX	1 gal		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COMP'D-C
4490	4562	72			40	30	1050			5 1/2	67	
					40	30	1050			5 1/2	67	
					40	30	1050			5 1/2	67	

DEVIATION RECORD: DEPTH 4562, DEV. 4, DIRECTION —

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1100	800	8	DRLG 7 7/8

DAILY DRILLING REPORT — REPORT NO. 22 — DATE Jan 16

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co	Atlantic Co. Cap Manitou Lake	L-61	N.W.T.		TIGHT HOLE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E		4	3½	

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J. Davidson	A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1	National	M 380	14
2	National	K 380	14
3			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-11	17	504		499	CEMENT TO SURFACE
8 5/8		24-J			13'	2448	
							PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		6½	6½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS 6¼	6¼	1¾	¾
LUBRICATE RIG		¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.	¼		
CUT OFF DRILLING LINE	¾		
REPAIR RIG			¾
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST	¾		
OTHER			
FISHING			
COMPLETION WORK A. PERFOR. TBG			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			1
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	36656 FT.
	SINGLES D.P.	FT.
22	D.C. I.D. O.D.	611.92 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	19 FT.
	TOTAL	4316 FT.

WT. OF STRING 92 000 LBS.

BIT RECORD

BIT NO.	2	29
SIZE	7⅞	
MFG.	SEC	
TYPE	H7	
NOZZLE NO.	3	
NOZZLE SIZE	2-11 1-10	
SER. NO.	706845	
DEPTH OUT	-	
DEPTH IN	4316	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4316												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 45	¾	WAIT FOR FINAL SHUT IN
12 45	3 30	2¾	PULL RACKED LOOSE TRIP OUT
3 30	6 00	2½	BREAK DOWN PALMER
6 00	6 15	¼	CHECK BLIND RAMS
6 15	7 00	¾	SLIP & CUT DRG LINE
7 00	8 00	1	TRIP IN HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	36656 FT.
	SINGLES D.P.	FT.
21	D.C. I.D. O.D.	611.92 FT.
	D.C. I.D. O.D.	3 2 1 FT.
	STB. BODY O.D.	4 4 4 FT.
1	STB. BODY O.D.	FT.
6	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
3	TOTAL	4371 FT.

WT. OF STRING 48 LBS.

BIT RECORD

BIT NO.	29	29
SIZE	7⅞	7⅞
MFG.	SEC	SEC
TYPE	H7I	
NOZZLE NO.	3	
NOZZLE SIZE	2-11 1-10	
SER. NO.	706845	
DEPTH OUT	4406	
DEPTH IN	4316	
TOTAL FTG.	55	
TOTAL HR. RUN	6½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			10.00	200
WEIGHT			8.4	8.4
VISC.-SEC			28	28
W.L.-C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	1 pt.	gel	1

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4316	4371	55			40	25	1450	6½		5½	67	
					40	30	1450				67	
					40	30	1450				67	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2¼ 4371	1	4 2						

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.15	1¼	RUN IN HOLE
9.15	9.30	¼	SERVICE RIG & CHECK B.O.P.'S
9.30	4 00	6½	DRLG 7⅞ HOLE
			Circulating fluids = 3,200 PPM chlorides
			CHANGED HEADS & LINERS #1 PUMP TO 5½

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4371	4406	35			40	35	1420	5½	65	5½		
					40	30	1500		65			
					40	35	1500		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4406	4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	¼	RIG SERV
4 15	9 30	5¼	TRIP
9 30	10 15	¾	WORK ON ROLLER IN COMPOUND
10 15	11 00	¾	DRLG
11 00	11 15	¼	SURVEY
11 15	12 00	¾	TRIP OUT FOR BIT

PRIVATE

TIGHT HOLE

DRILLING—COMPLETION—WORKOVER LOG

UNIT OR LEASE Atlantic Col. Ltd. Manitou Lake WELL NUMBER L-61 DATE 1/21/66

FIELD Glacier Block DISTRICT N.W.T.

COUNTY OR PARISH PROVINCE OR STATE N.W.T.

CONTRACTOR S+T. Drilling Co. Rig # 1E

I. 4316 (0') Testing D.S.T #2
Hit bridge @ 4189, unable to work tool through. Pull out.

II. 4316 (0') Testing D.S.T #2
Pull out testing tools 1¼ hrs. Service Rig ¼ Run in with 7⅞" bit 2½ hrs. Circulate 1½ hrs. Pull bit 2¼ hrs.

III. 4316 (0') Testing D.S.T #3
Make up testing tools 2 hrs. Run in w/packers 2 Testing 6 hrs.

D.S.T #3, Interval 4045 - 4316
Initial draw down 3 min.

Initial Shut In	30 min	1700 P.S.I
Initial Flow	120 min	350 P.S.I
Final Flow		1700 P.S.I
Final Shut In	120 min	1700 P.S.I
Initial Hydrostatic		1725 P.S.I
Final Hydrostatic		1725 P.S.I

Total Recovery 3785' Fluid. Consisting off 900' drilling fluid and 2885' formation water
Formation water = 85,500 P.P.M salt
B.H.T. = 92° F

D.S.T. #2, 4045 - 4316 Missun

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL			
DIRECTIONAL DRILLING			
REAMING			
TRIPS TO CHANGE BIT			
DRILLING WITH PARTIAL RETURNS			
COMBATING LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING			
FISHING			
DEVIATION SURVEY			
LUBRICATE RIG			
CUT OFF DRILLING LINE			
REPAIR RIG			
TEST CASING OR B.O.P			
CORING: SIDE WALL			
CORING: CONVENTIONAL			
CORING: DIAMOND			
CORING: WIRE LINE			
DRILL STEM TEST OPEN HOLE	8	8	8
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING			
WAITING ON CEMENT			
LOGGING CASED HOLE			
PERFORATING			
WIRE LINE FORMATION TEST CASED HOLE			
DRILL STEM TEST CASED HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER			
TOTALS			

TIME SUMMARY			
DAY WORK	8	8	8
HOURS W/DP			
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK	8	8	8

JOINTS	FEET	WEIGHT	GRADE	THREAD	CLASS

SIZE O.D. CASING	
SHOE	
SET JOINT	
COLLAR	
JOINTS PIPE	
TOTAL	
RKB TO	
DEPTH SET	

PRINTED IN CAN. 38-228 5/63

SIGNED J. M. Davidson

DAILY DRILLING REPORT

REPORT NO. — DATE Jan 21-66

OPERATOR: Atlantic Ref Co

LEASE: Atlantic Gulf Can Manitou Lake

WELL NO.: L-61

FIELD OR DIST.: Wildcat

COUNTY: Can

STATE:

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO.: 1E

DRILL PIPE STRING: NO. — SIZE: 4

TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Donaldson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K 380	14
2.			
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42-11	17	504		499	CEMENT TO SURFACE
	8 5/8		24-J			5392	2948	PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR-DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	6		4
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		8	4
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	6	8	4

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
39	STANDS D.P.	3665.60 FT.
	SINGLES D.P.	FT.
22	D.C. 7 3/4 I.D. 6 1/4 O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	14 FT.
	TOTAL	4316 FT.

WT. OF STRING 93000 LBS.

BIT RECORD

BIT NO.	29
SIZE	7 7/8
MFG.	SEC
TYPE	HT-1
NOZZLE NO.	FOUR
NOZZLE SIZE	OUT
SER. NO.	701540
DEPTH OUT	
DEPTH IN	4316
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
	4316											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	745	2 3/4	MAKE UP PACKER
745	545	2	RUN IN HOLE PACKER WOULD NOT GO TO BOTTOM
			HIT TIGHT SPOT @ 4199.44
545	800	2 3/4	TRIP OUT
			D.S.T #2 4045 — 4316.
			Unable to run tool to bottom

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	3665.60 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. I. BODY O.D.	FT.
	STB. F. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	14 FT.
	TOTAL	4316 FT.

WT. OF STRING 93000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	915	1 1/4	BREAK DOWN PACKER
915	930	1/4	R.C. SEAL
930	1200	2 1/2	TRIP IN
1200	1230	1/2	BREAK CIRC
1230	1 15	1/2	CIRC
1 15	130	1/4	WORK JUNK SUB
130	345	2 1/4	TRIP OUT STRAP OUT
345	400	1/4	MAK UP PAKER

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
29	STANDS D.P.	3665.60 FT.
	SINGLES D.P.	611.93 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	4342 + 3
DEPTH IN	4317
TOTAL FTG.	124
TOTAL HR. RUN	11
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
				STRAP OUT 4340 03								
				PIPE TALLY 4329 44								
				DIFF .57								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	600	2	MAK UP PACKER
600	800	2	TRIP IN W/ PACKER
800	845	3/4	SHUT IN PACKER
845	1000	1 1/4	OPEN TESTER & TEST
1000	1200	2	SHUT IN TESTER

DAILY DRILLING REPORT

REPORT NO. _____ DATE Jan-20-66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co	Atlantic Co Cab Manitou Lake 1-61			N W T	Can

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO. —

DRILL PIPE STRING: NO. — SIZE — TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STACH

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	
2.	NAT	K 380	
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	11 3/4		42.11	17	504		499	CEMENT TO SURFACE
TUBING OR LINER	8 5/8		24-J			1392	2948	PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	2 3/4	7 1/2	3 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	4 3/4		2 3/4
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.	1/4		1/4
CUT OFF DRILLING LINE			1/4
REPAIR RIG		1/4	
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
38	STANDS D.P.	3634 FT.
	SINGLES D.P.	FT.
22	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	4221 FT.
WT. OF STRING	90 000	LBS.

BIT RECORD

BIT NO.	25
SIZE	7 7/8
MFG.	HW
TYPE	AR. G
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	47587
DEPTH OUT	4219
DEPTH IN	4192
TOTAL FTG.	29
TOTAL HR. RUN	2 3/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		600	800
WEIGHT		9.4	8.4
VISC.—SEC		29	28
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A Packer

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
4192	4221	29			36	6		5 1/2		5 1/2	66	
					40	28				5 1/2	66	
					40	28	600	5 1/2	65			

DEVIATION RECORD: DEPTH 4192 — DEV. 3 1/2 — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1000	700	2	TRIP OUT
700	715	1/4	RIG SERV
715	730	1/4	MAKE UP BIT CHECK PIPE RAMS
730	930	2	TRIP IN HOLE
930	945	3/4	WORK JUNK SUB
945	800	2 3/4	DRLG 7 7/8" HOLE
			PUT IN CORROSION RING ON TOP OF DC
			CHANGE OVER SUB 4 1/2" PIN SUB

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
38	STANDS D.P.	3689 FT.
2	SINGLES D.P.	62.00 FT.
22	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		3 3 FT.
	KELLY DOWN	FT.
	TOTAL	4284 FT.
WT. OF STRING	92000	LBS.

BIT RECORD

BIT NO.	28
SIZE	7 7/8
MFG.	HW
TYPE	RRG-7
NOZZLE NO.	3
NOZZLE SIZE	16
SER. NO.	47587
DEPTH OUT	
DEPTH IN	4192
TOTAL FTG.	92
TOTAL HR. RUN	10 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		800	
WEIGHT	8.4	8.4	8.4
VISC.—SEC	28	28	28
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			1 3/4
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
4221	4284	63			40	26	600	5 1/2		5 1/2	79	
					40	28	600	5 1/2				
					40	28	600	5 1/2				

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	RIG SERV CHECK BOP
815	1100	7 3/4	DRILLING 7 7/8 HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	28	
SIZE	7 7/8	
MFG.	HW	
TYPE	RRG-7	
NOZZLE NO.	3	
NOZZLE SIZE	16	
SER. NO.	47587	
DEPTH OUT	4292	4316
DEPTH IN	4192	
TOTAL FTG.	124	
TOTAL HR. RUN	14 1/4	
COND. OF BIT	3	
REAMER NO.		
REAMER TYPE	7-4-0	

MUD RECORD

TIME	1100		
WEIGHT	8.4		
VISC.—SEC	28		
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
1901	Gronox	2	35

DRILLER

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
4284	4311	33/4			40	28	350	6 1/2		5 1/2	70	

DEVIATION RECORD: DEPTH — DEV. — DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	745	3 3/4	DRILLING 7 7/8 HOLE
745	815	1/2	CIRC & WORK JUNK SUB
815	1100	2 3/4	TRIP OUT FOR DST
1100	1145	1/2	RIG SERV CHECK BLIND RAMS
1145	1200	1/4	MAKE UP PACKER

DAILY DRILLING REPORT

REPORT NO. _____ DATE JAN 19/1976

OPERATOR: ATLANTIC REF CO	LEASE: ATLANTIC COY CAN MANITOU LAKE I-61	WELL NO.	FIELD OR DIST.
CONTRACTOR: S & T DRILLING CO. LTD.	RIG NO.	COUNTY: N W T	STATE: CANADA

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

DRILL PIPE STRING: NO. 4 SIZE — TOOL JOINT O.D. — TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	F 350	14
2.	NATIONAL	F 350	14
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	11 3/4		42-11	17	504		499	CEMENT TO SURFACE
TUBING OR LINER	5 3/8		24-J			13.97	2948	PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7½	5½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG	¼		2
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1½
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	8	8	8
HRS. W/DP.			
HRS. WO/DP.			
HRS. STANDBY			
REPAIR			2
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
37	STANDS D.P.	3134	FT.
36	SINGLES D.P.	3405.79	FT.
	D.C. I.D.	O.D.	FT.
22	D.C. 2¼ I.D.	6¼ O.D.	611.93 FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	28	FT.
	TOTAL	4076	FT.

WT. OF STRING 90 000 LBS.

BIT RECORD

BIT NO.		27
SIZE		7 7/8
MFG.		Hughes
TYPE		RR97
NOZZLE	NO.	3
	SIZE	11
SER. NO.		47590
DEPTH OUT		3984
DEPTH IN		3984
TOTAL FTG.		92
TOTAL HR. RUN		9
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1:00	4:00	7:00
WEIGHT	84	84	84
VISC.—SEC	28	28	28
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A Parker

FOOTAGE

FROM	TO	DR'D RM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL-S PAR'EL-P COM'D-C
3998	4076	78			39	26	950	5½	59	5½	59	
					39	32	950		59	5½	59	
					40	32	950		59	6½	59	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7:00	12:15	¼	Rig serv check Hydril
12:15	12:30	¼	Drlg 7 7/8" Hole
12:30	12:45	¼	Change pop valve rubber on No 2 Pump
12:45	8:00	7 ¼	Drlg

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
37	STANDS D.P.	3540.26	FT.
	SINGLES D.P.	64.27	FT.
22	D.C. 2¾ I.D.	6½ O.D.	611.92 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.50	FT.
	TOTAL	4150	FT.

WT. OF STRING 90 000 LBS.

BIT RECORD

BIT NO.		27
SIZE		7¾
MFG.		Hughes
TYPE		RR97
NOZZLE	NO.	3
	SIZE	11
SER. NO.		47590
DEPTH OUT		
DEPTH IN		3984
TOTAL FTG.		166
TOTAL HR. RUN		~~16½~~
COND. OF BIT		~~H-4~~
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00	11:00	2:00
WEIGHT	84	"	"
VISC.—SEC	29	"	"
W.L.—C.C.		"	"
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: S Hollister

FOOTAGE

FROM	TO	DR'D RM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL-S PAR'EL-P COM'D-C
4076	4150	73/4			40	26	1000	5½	161	5½		
					40	26	1000					
					40	24	1000					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
		1/4						

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~WEST~~			
8:15	8:15	¼	Rig serv check BOP
8:15	4:00	7¾	Drlg 7⅞ Hole
1			

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.	1411	FT.
	SINGLES D.P.	1.41	FT.
	D.C. I.D.	O.D.	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.		RR7
SIZE		7¾
MFG.		Hugh
TYPE		RRG-7
NOZZLE	NO.	3
	SIZE	11
SER. NO.		47590
DEPTH OUT		4192
DEPTH IN		3984
TOTAL FTG.		212
TOTAL HR. RUN		22
COND. OF BIT		6-5-0
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4:00	8:00	12:00
WEIGHT	84	84	84
VISC.—SEC	28	29	27
W.L.—C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: L

FOOTAGE

FROM	TO	DR'D RM'R CORE'C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL-S PAR'EL-P COM'D-C
4150	4192	42			40	26	1000					
					40	28						
						32						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4192	3½							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig serv
4:15	4:45	½	Drilling 7¾ Hole
4:45	5:00	¼	Chang Head on No 2 Pump
5:00	8:15	3¼	Drlg 7⅞" Hole
			Put on 3" valve on suction for mixing
8:15	10:00	1¾	Cronix Barber gate leaking Put in new gate
10:00	11:30	1½	Drlg
11:30	12:00	½	Work Junk sub / Survey

DAILY DRILLING REPORT — REPORT NO. — DATE Jan 18/66

OPERATOR: ATLANTIC REF CO
LEASE: ATLANTIC COY LTD MANITOU LAKE
WELL NO.: L-61
FIELD OR DIST.:
COUNTY: N W T
STATE: CERTIFICATE

CONTRACTOR: S & T DRILLING CO. LTD.
RIG NO.: 1E
DRILL PIPE STRING: NO. / SIZE
TOOL JOINT O.D.: TYPE THD.

SIGNATURE OF OPERATOR - REPRESENTATIVE: J. Davidson
SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42-H	17	504		449	TIGHT HOLE
	8 5/8		24-J	1		13-37	2448	CEMENT TO SURFACE
				1				

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3	5 3/4	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3 1/2	3/4	4 1/4
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
TEST B.O.P.			1/4
CUT OFF DRILLING LINE			
REPAIR RIG	1 1/2		2
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		1/4	3/4
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY	(1/2)		(2)
Repair Time @ 6.00 $			
	8	8	8
TOTAL DAY WORK	(1/2)		

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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
33	STANDS D.P.	3770.00 FT.
	SINGLES D.P.	FT.
22	D.C. 2 1/2 I.D. 6 1/4 O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	3838.79 FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.	2	25
SIZE	7 7/8	
MFG.	Hughes	
TYPE	ARC-73	Record
NOZZLE NO.	3	
NOZZLE SIZE	11	
SER. NO.	47589	
DEPTH OUT		
DEPTH IN	3819	
TOTAL FTG.		
TOTAL HR. RUN	3	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME		5:30	7:00
WEIGHT		9.4	9.4
VISC.-SEC		28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER	A Pardin		

FOOTAGE FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3819	3838				40	18	1375	5 1/2	68			
					40	3700	1375	"	"			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.30	1 1/2	WORK ON MASTER CLUTCH
1.30	5.00	3 1/2	RUN IN HOLE THAW OUT KELLY FROZE @ GROUND LEVEL
5.00	8.00	3	DRLG 7 7/8" HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
30	STANDS D.P.	3170.00 FT.
1	SINGLES D.P.	FT.
	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	38.90 FT.
	TOTAL	38 FT.
WT. OF STRING		44000 LBS.

BIT RECORD		
BIT NO.	25	
SIZE	7 7/8	
MFG.	HUGHES	
TYPE	ARC-73	
NOZZLE NO.	3	
NOZZLE SIZE	11	
SER. NO.	47589	
DEPTH OUT	3890	
DEPTH IN	3819	
TOTAL FTG.	71	
TOTAL HR. RUN	8 3/4	
COND. OF BIT	3-3-0	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	8.00	11.00	7.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER			

FOOTAGE FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3838	3890	52			40	28	1375	5 1/2	68	5 1/2		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	1/4	SERVICE RIG & CHECK B.O.P.S
8.15	2.00	5 3/4	DRLG 7 7/8 HOLE
2.00	3.15	1 1/4	WORK TIGHT HOLE
3.15	4.00	3/4	TRIP OUT OF HOLE SLOWLY

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD		
BIT NO.	26	
SIZE	7 7/8	
MFG.	HUGH	
TYPE	W1R2	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	10214	
DEPTH OUT		
DEPTH IN	3890	
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT	3-3-0	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE AMT.
DRILLER			

FOOTAGE FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	1.15	2 1/4	TRIP OUT HOLE SLOWLY
1.15	1.30		CHECK BLIND RAMS
1.30	8.00		STAND 2 DC IN DERRICK PICK UP JARS RUN IN DC
8.00	10.00	2	PUT ON NEW DRILLER. PUMP IN COMPOUND
10.00	12.00	2	RUN IN HOLE

DAILY DRILLING REPORT

REPORT NO. _____ DATE Jan 17/66

OPERATOR: ATLANTIC REF CO

LEASE: ATLANTIC COL CAR MANITON LAKE

WELL NO.: L.61

FIELD OR DIST.:

COUNTY: N W T

STATE: CAN

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO.: 1E

DRILL PIPE STRING: NO. _____ SIZE _____ TYPE THD. _____ TOOL JOINT O.D. _____

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W L Hearn

REMARKS: TIGHT HOLE

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42-H	17	504		499
9 5/8		24-J			17-7	7948

CEMENT TO SURFACE

PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6 1/4	13 1/4	1 1/2
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 3/4	1	3 1/4
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
TEST B.O.P.			1/4
CUT OFF DRILLING LINE			1/2
REPAIR RIG			1 1/4
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			1/2
OTHER			1 1/4
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	14	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	0 1/4
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			

Repair time & cost

TOTAL DAY WORK: 8 8 0 1/4

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. _____

DAY TOUR (MORN. TOUR)

DRILLING ASSEMBLY AT END OF TOUR

NO.		
35	STANDS D.P.	3311.09 FT.
1	SINGLES D.P.	31.45 FT.
	D.C. I.D. O.D.	FT.
20	D.C. I.D. O.D.	559.06 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	4.02 FT.
	BIT OR C.B.	FT.
	JARS	5.70 FT.
	KELLY DOWN	24 FT.
	TOTAL	39.35 FT.

WT. OF STRING 90,000 LBS.

BIT RECORD

BIT NO.	26
SIZE	7 7/8
MFG.	Hughes
TYPE	J3RR2
NOZZLE NO.	3/32
NOZZLE SIZE	11
SER. NO.	10214
DEPTH OUT	DRLG
DEPTH IN	3890
TOTAL FTG.	45
TOTAL HR. RUN	6 1/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2 30	4 00
WEIGHT	8.4	8.4
VISC.-SEC	28	28
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: C. Hatfield

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3890	3935	45			30	12	1250	5 3/4				
					40	18	1250	5 3/4				
					40	28	1250	5 3/4				

DEVIATION RECORD: DEPTH _____ DEV. _____ DIRECTION _____ DEPTH _____ DEV. _____ DIRECTION _____ DEPTH _____ DEV. _____ DIRECTION _____

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8200	145	1 3/4	FINISH RUNNING IN HOLE REPAIR CHAIN IN DRAWORKS
145	800	6 1/4	DRLG 7 7/8" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
35	STANDS D.P.	3311.09 FT.
2	SINGLES D.P.	62.63 FT.
22	D.C. 2 3/4 I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	13.00 FT.
	TOTAL	3998 FT.

WT. OF STRING 90,000 LBS.

BIT RECORD

BIT NO.	27
SIZE	7 7/8
MFG.	WW
TYPE	ISR67
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	W7590
DEPTH OUT	DRLG
DEPTH IN	3984
TOTAL FTG.	
TOTAL HR. RUN	1 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	11.00	3.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: _____

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3935	3984	49					1250	5 1/2		5 1/2	66	

DEVIATION RECORD: DEPTH _____ DEV. 4 DIRECTION _____ DEPTH 3819 DEV. 4 DIRECTION _____ DEPTH _____ DEV. _____ DIRECTION _____

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	815	1/4	R.C. SER. 2 CHECK PUMP
815	900	3/4	DRL. 7 7/8 HOLE
900	915	1/4	CHANGE HEAD IN 2 PUMP
915	315	6	DRLG 7 7/8 HOLE
315	330	1/4	SURVEY
330	400	1/2	TRIP OUT

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
35	STANDS D.P.	3311.09 FT.
2	SINGLES D.P.	62.63 FT.
22	D.C. 2 3/4 I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	13.00 FT.
	TOTAL	3998 FT.

WT. OF STRING 90,000 LBS.

BIT RECORD

BIT NO.	27
SIZE	7 7/8
MFG.	WW
TYPE	ISR67
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	W7590
DEPTH OUT	DRLG
DEPTH IN	3984
TOTAL FTG.	
TOTAL HR. RUN	1 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			10
WEIGHT			8.4
VISC.-SEC			28
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: _____

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3984	3998	14			35	5	1250			5 1/2	66	
					35	20	1250			5 1/2	66	
					4	30	1250			5 1/2	66	

DEVIATION RECORD: DEPTH 3819 DEV. 4° DIRECTION _____ DEPTH _____ DEV. _____ DIRECTION _____ DEPTH _____ DEV. _____ DIRECTION _____

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1,60	530	1 1/2	FINISH TRIP OUT
530	545	1/4	CHECK KLINE KAMS
545	645	1	CHANGE BE DAY.
645	715	1/2	SLIP 23 OF LINE
715	800	3/4	TRIP IN
800	915	1 1/4	PICK UP KELLY WORK JUNK SUB TIGHT HOLE
915	1045	1 1/2	DRLG 7 7/8 HOLE
1045	1200	1 1/4	CHANGE BOTH HEAD RUBBERS ON #1 & 2 PUMP

DAILY DRILLING REPORT

REPORT NO. _____ DATE Jan 16/66

OPERATOR: Atlantic Ref Co.

LEASE: Atlantic Ref Co Wainwright Lake

WELL NO. 2-21 | FIELD OR DIST. _____ | COUNTY Dist | STATE Can

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 12

DRILL PIPE STRING: NO. _____ SIZE _____ | TOOL JOINT O.D. _____ | TYPE THD. _____

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Dawson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T H Stevens

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		H-40-H	12	504		499	Cement to Surface
7 5/8		J-55-I			13.5	2544	PRIVATE
							TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG	9	8	8
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	9	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 _____ 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. _____

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	25
SIZE	7 7/8
MFG.	H.W.
TYPE	ARK-7 Rock Bit
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	H5189
DEPTH OUT	
DEPTH IN	3819
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER	W Dixon			

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3819								5½		5½		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	9 pm	7	Wait on Drawworks Visit on Repairs

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	25
SIZE	7 7/8
MFG.	H.W.
TYPE	RBC-7S
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	347589
DEPTH OUT	
DEPTH IN	3819
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3819								5½		5½		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00			Wait on Repairs for Drawworks Tighten Bolts
	1:00	8	on High Drive Shaft Put on Chains Master Clutch
8			Not Releasing Work on Same

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL.TR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00			Wait on Repairs for Drawworks Tighten Bolts
	12:00	12:00	on High Drive Shaft Put on Chains Master Clutch
		8	Not Releasing Work on Same

DAILY DRILLING REPORT

REPORT NO. — DATE Jan 14 1966

OPERATOR: Atlantic Ref. Co.

LEASE: Atlantic Co. Co. Manton Lake

WELL NO. 1-121 | FIELD OR DIST. | COUNTY N.J. | STATE Con.

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 16

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Donahue

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

REMARKS: PRIVATE HOLE

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	X-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		42-H	17	504		499
8⅝		24-J-1			13½	2944

TIGHT — CEMENT TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5½	7¾	6½
REAMING	¾		
CONDITIONING MUD & CIRCULATING	¼		
TRIPS	1¾		3
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			¼
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	¼		
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO. | NO. OF LINES | SIZE | FEET SLIPPED | FEET CUT OFF | PRESENT LENGTH | TON MI. OR TRIPS SINCE LAST CUT | CUMULATIVE TON MI. OR TRIPS | NO. OF DAYS FROM SPUD | CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
32	STANDS D.P.	3070⅝ FT.
	SINGLES D.P.	FT.
22	D.C. 3 I.D. 6¼ O.D.	606.42 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	14 FT.
	TOTAL	3665 FT.
WT. OF STRING		70,000 LBS.

BIT RECORD

BIT NO.	24		
SIZE	7⅞		
MFG.	H.W.		
TYPE	RR6.7J	Reconditioned	
NOZZLE NO.	3		
NOZZLE SIZE	11		
SER. NO.	47585		
DEPTH OUT			
DEPTH IN	3616		
TOTAL FTG.	49		
TOTAL HR. RUN	5¼		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	4.00	6.00	
WEIGHT	8.4	8.4	
VISC.—SEC	27	27	
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: H. Wilson

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
3616	3665	49			35	10	1750	5½	65			
					40	26						
					40	29						

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Service R.T.
12.15	1.45	1½	Trip in 1 std Down 4 jts.
1.45	2.00	¼	Put on Kelly Hose Break Circ.
2.00	2.45	¾	Clean 10' to Bottom Wash 1 jt 4 SOR
2.45	8.00	5¼	Drill 7⅞ Hole

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
33	STANDS D.P.	3124.50 FT.
	SINGLES D.P.	FT.
22	D.C. 3 I.D. 6¼ O.D.	606.42 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	11.00 FT.
	TOTAL	3745 FT.
WT. OF STRING		96000 LBS.

BIT RECORD

BIT NO.	24		
SIZE	7⅞		
MFG.	H.W.		
TYPE	RR6.7J	RR	
NOZZLE NO.	3		
NOZZLE SIZE	11		
SER. NO.	47585		
DEPTH OUT			
DEPTH IN	3616		
TOTAL FTG.	129		
TOTAL HR. RUN	13		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	8.00	11.00	2.00
WEIGHT	8.4	8.4	8.4
VISC.—SEC	28	28	28
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: C. Bickett

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
3665	3745	80			40	28	1200	5½	68	5½		
						30						
						25						

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	Service R.T.
8.15	4.00	7¾	Drlg 7⅞ Hole
			Warm up Indicator

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
33	STANDS D.P.	3174.00 FT.
2	SINGLES D.P.	62.67 FT.
2	D.C. 3 I.D. 6¼ O.D.	606.42 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	39 FT.
	TOTAL	3819 FT.
WT. OF STRING		95,000 LBS.

BIT RECORD

BIT NO.	24		
SIZE	7⅞		
MFG.	HW		
TYPE	RR6K	RR	
NOZZLE NO.	3		
NOZZLE SIZE	11		
SER. NO.	47585		
DEPTH OUT	~~3616~~	3814	
DEPTH IN	3616		
TOTAL FTG.	203		
TOTAL HR. RUN	19½		
COND. OF BIT	1-1-I		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	6.00		
WEIGHT	8.4		
VISC.—SEC	28		
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
3745	3819	74			40	28	1200	5½	68	5½		
						35						
						35						

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	7.15	3¼	Drilling 7¾ Hole
7.15	9.00	¾	Work on Pump
9.00	11.00	2	Drlg 7⅞ Hole
11.00	11.15	¼	Circ
11.15	11.45	½	Trip out
11.45	12.00	¼	TD

DAILY DRILLING REPORT

REPORT NO. | DATE 4/AN13/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref. Co	Atlantic Col. Car. Manitou Lake	L-61			PRIVATE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J. Davidson	

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾	~~National~~	42-H	17	504		499
7⅝	~~National~~	24-J			13.9'	7941

REMARKS: TIGHT HOLE
Cement to surface

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7	7¼	3½
REAMING	¾		
CONDITIONING MUD & CIRCULATING			1¾
TRIPS			¼
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.			
CUT OFF DRILLING LINE			¾
REPAIR RIG			1½
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2792.58 FT.
2	SINGLES D.P.	63.36 FT.
22	D.C. 6¼ I.D. 2¾ O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.50 FT.
	TOTAL	3436 FT.
WT. OF STRING	70.000	LBS.

BIT RECORD

BIT NO.	23
SIZE	7¾
MFG.	SEC.
TYPE	H8J Reconditioned
NOZZLE NO.	3
NOZZLE SIZE	2110 2/11
SER. NO.	764310
DEPTH OUT	
DEPTH IN	3340
TOTAL FTG.	76
TOTAL HR. RUN	7
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2.00	4.00	6.00
WEIGHT	8.3	8.3	8.4
VISC.-SEC	28	29	29
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: L. Wilson

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3360	3436	76			32	10	1550	5½	68	5½		
					40	18						
						24						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Service Rig
12.15	1.00	¾	Clean 20' in 30T Tam
1.00	9.00	7	Drl. 7¾ Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
31	STANDS D.P.	2938.98 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
	JARS	31.10 FT.
	KELLY DOWN	34.00 FT.
	TOTAL	3565 FT.
WT. OF STRING	72.000	LBS.

BIT RECORD

BIT NO.	23
SIZE	7¾
MFG.	SEC
TYPE	H8J
NOZZLE NO.	3
NOZZLE SIZE	2¼0 1/11
SER. NO.	764310
DEPTH OUT	
DEPTH IN	3360
TOTAL FTG.	205
TOTAL HR. RUN	18¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	12.00	3.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3436	3565	129			40	20	1550	5½	68	5½		
					40	22	1550		68			
					40	22	1550		68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	SERVICE RIG
8.15	4.00	7¾	DRILLING 7¾ HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
30	STANDS D.P.	2940.17 FT.
1	SINGLES D.P.	31.57 FT.
22	D.C. 6¼ I.D. 2¾ O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	32 FT.
	TOTAL	3616 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	23
SIZE	7¾
MFG.	SEC
TYPE	H8J
NOZZLE NO.	3/10
NOZZLE SIZE	1/11
SER. NO.	764310
DEPTH OUT	3616
DEPTH IN	3360
TOTAL FTG.	256
TOTAL HR. RUN	18¼
COND. OF BIT	8/8
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	6.00		
WEIGHT	8.4		
VISC.-SEC	28		
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#-	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3565	3616	51			40	22		5½	68	5½		
						28						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3616	4½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	Rig Serv
4.15	7.00	2¾	Drilling 7⅞ Hole
7.00	8.30	1½	Check Pump Change Heads Substructure Sid
8.30	9.00	½	Drl. 7¾ Hole
9.00	9.15	¼	Drop Survey
9.15	11.00	1¾	Trip out
11.00	11.15	¼	Clean Junk Sub, Make up Bit
11.15	12.00	¾	Check Bops, Slip + Cut Line

DAILY DRILLING REPORT

REPORT NO. _____ DATE JAN. 13/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF. CO.	ATLANTIC COL. CAR. MARITON LAKE	L-6A		NWT	CAN.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S & T DRILLING CO. LTD.	1E			

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. M. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-380	14
2.	"	"	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504		479	CEMENT TO SURFACE
7 5/8		24-J			1397	2948	PRIVATE
							OFFSITE HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	12	7½	3
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	4		3¾
LUBRICATE RIG	½		¼
DEVIATION SURVEY			¼
TEST B.O.P.	½	¼	¾
CUT OFF DRILLING LINE			
REPAIR RIG	½	¼	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	1¼		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	24	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2543.38 FT.
1	SINGLES D.P.	31.70 FT.
2	D.C. 6¼	
	2 3/4 I.D. O.D.	116.03 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.50 FT.
	TOTAL	3219 FT.
WT. OF STRING	77.000	LBS.

BIT RECORD

BIT NO.	22
SIZE	7¾
MFG.	SEC
TYPE	H.T.1
NOZZLE NO.	3
NOZZLE SIZE	10
SER. NO.	755-710
DEPTH OUT	
DEPTH IN	3201
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER W. Olson

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
32.00	3219	19			36	20	1425	5½	62			
						30						
						25						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	DRLG 7⅞ HOLE 24' TO 4.00 SURV.
12.15	2.15	2	TRIP OUT
2.15	2.30	¼	MAKE UP BIT CHECK B.H.A.
2.30	3.00	½	RAN B.H. PULL IN PACKED HOLE WELL
3.00	5.00	2	TRIP IN W/ B.H.A. STRAP IN
5.00	6.00	1	CLEAN HOLE TO BOTTOM
6.00	7.30	1½	DRLG 7⅞ HOLE
7.30	7.45	¼	CHANGE RUBBER IN 4" CAMERON IN STAND PIPE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
28	STANDS D.P.	2634.47 FT.
	SINGLES D.P.	FT.
29	D.C.	
	I.D. O.D.	61.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	16.18 FT.
	BIT OR C.B.	FT.
	JARS	5.70 FT.
	KELLY DOWN	12.00 FT.
	TOTAL	3312 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	22	
SIZE	7¾	
MFG.	SEC	
TYPE	H8C	
NOZZLE NO.	3	
NOZZLE SIZE	10	
SER. NO.	755740	
DEPTH OUT		
DEPTH IN	755740 3201	
TOTAL FTG.		
TOTAL HR. RUN	9	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.00	11.00	3.00
WEIGHT	8.4	8.4	8.4
VISC.—SEC	28	28	28
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Lee Brinks

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
3219	3312	93	7½		40	25	1750	5½	48	5½		
					40	25	1775		48			
					42	26	1800		48			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	RIG SERV CHECK HYDRIL
8.15	1.15	5	DRILLING
1.15	1.30	¼	CLEAN OIL PAN DRAIN
1.30	11.00	2½	TRIPPING 7⅞ HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
28	STANDS D.P.	2644.33 FT.
2	SINGLES D.P.	62.70 FT.
22 23	D.C. 6¼	
	2 3/4 I.D. O.D.	611.93 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	4 FT.
	TOTAL	3360 FT.
WT. OF STRING	77000	LBS.

BIT RECORD

BIT NO.	22	23
SIZE	7¾	7¾
MFG.	SEC	SEC
TYPE	H.T	H.P.J
NOZZLE NO.	3	3
NOZZLE SIZE	10	2/10 1/16
SER. NO.	755740	761310
DEPTH OUT	3360	
DEPTH IN	3201	3360
TOTAL FTG.	159	
TOTAL HR. RUN	12	
COND. OF BIT	6-5-0	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	5.00		
WEIGHT	8.4		
VISC.—SEC	28		
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
3312	3360	HC			W1	26	1800	5½	48	5½		
						15						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3360	5							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	RIG SERV
4.15	7.15	3	DRILLING
7.15	7.30	¼	SURVEY
7.30	10.00	2½	TRIP OUT
10.00	10.45	¾	CHANGE BIT MAKE UP BIT CHECK B.H.A.
10.45	12.00	1¼	TRIP IN W/ BIT

DAILY DRILLING REPORT

REPORT NO. _____ DATE Jan. 11/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref. Co.	Atlantic Colinsfor Manitou Lake	1-21		W.S.T	Alta.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. M. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: O. D. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	17
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504		499	Cement To Surface
9 5/8		24-1			12.97	2948	
							TIGHT HOLE PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	2		
DRILLING ACTUAL	4 3/4		6 1/2
REAMING			1 1/2
CONDITIONING MUD & CIRCULATING			
TRIPS	2		
LUBRICATE RIG	1/4		
DEVIATION SURVEY	1/4		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3/4		
FISHING			
COMPLETION WORK A. PERFORATING		8	
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8		8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2449.27 FT.
2	SINGLES D.P.	62.61 FT.
22	D.C. 6 1/4 I.D. O.D.	622.03 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.50 FT.
	TOTAL	3161 FT.

WT. OF STRING 70,000 LBS.

BIT RECORD

BIT NO.	20
SIZE	7 7/8
MFG.	H.W.
TYPE	W7
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	12092
DEPTH OUT	3161
DEPTH IN	3107
TOTAL FTG.	53
TOTAL HR. RUN	11 3/4
COND. OF BIT	88-6 8-8-6
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12.00	4.00
WEIGHT	8.3	8.3
VISC.-SEC	29	29
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: M. Allan

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-P PAR'EL-P COM'D-C
3139	3161	23			45	20	1200	5 1/2	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3160	4°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	Service Rig
12.15	5.00	4 3/4	Drlg. 77 Hole
5.00	5.15	1/4	Survey
5.15	7.15	2	Trip out
7.15	8.00	3/4	Break Bit Set Jack Locked Hole Assembly Last 3 Cones

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		
WEIGHT		
VISC.-SEC		
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-P PAR'EL-P COM'D-C
								5 1/2		5 1/2		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	1/4	R.C. Serv
8.15	10.15	2	Trip in w/ Magnet
10.15	11.00	3/4	Working Magnet
11.00	12.15	1 1/4	Trip out w/ Magnet
12.15	12.30	1/2	Clean Magnet
12.30	1.15	3/4	Slip line 23 ft.
1.15	3.00	1 3/4	Trip in w/ Bit
3.00	4.00	1	Clean To Bottom

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2513.39 FT.
2	SINGLES D.P.	62.80 FT.
20	D.C. 8 1/4 I.D. O.D.	573.96 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	14.00 FT.
	TOTAL	3252.60 FT.

WT. OF STRING 70,000 LBS.

BIT RECORD

BIT NO.	21
SIZE	7 7/8
MFG.	HUGHES
TYPE	L W 3R
NOZZLE NO.	3/12
NOZZLE SIZE	1/11
SER. NO.	16734
DEPTH OUT	
DEPTH IN	3161
TOTAL FTG.	35
TOTAL HR. RUN	4 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	8.00	12.00
WEIGHT	8.4	8.1	8.3
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3161	3200	39			40	2000	1100	5 1/2	68	5 1/2		
						20,000						
						25,000						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	5.30	1 1/2	Reaming tinner pavg hole 20 ft
5.30	12.00	6.2	Drilling 7 7/8 hole

DRILLING—COMPLETION—WORKOVER LOG

UNIT OR LEASE: Atlantic Col Cor Manitou Lake | WELL NUMBER: L-61 | DATE: 1/10/66

FIELD: Glacier Block | DISTRICT: No. 11 2

COUNTY OR PARISH: | PROVINCE OR STATE: N. W. T.

CONTRACTOR: S+T. Drilling Rig # 1E.

I 3108 (0')

R.I.H. with D.S.T. #1 1/2 hr.

Init isial shut in and draw down ~~4 hr~~.

Flow period and final shut in 5 3/4 hrs.

Trip out with D.S.T. #1 1 3/4 hr.

II 3108 (0').

Finish pulling packer 2 hrs.

Lubricate rig + pick up packed hole assembly 5 hrs.

Clean 20' fill to bottom 1 hr.

III 3108 - 3138 (30')

Lubricate rig 1/4 hr.

Repair 1 hr.

Drilling 7 7/8" hole. 6 3/4 hr.

D.S.T. #1, Interval 2964 - 3108. Top of

Top 6 3/4" rubber 2955.

Initial draw down, 04 min

Initial shut in	30 min	1250 P.S.I
Initial flow	120 min	350 P.S.I
Final flow		1125 P.S.I
Final shut in	120 min	1250 P.S.I

Initial hydrostatic 1300 P.S.I

Final hydrostatic 1300 P.S.I

Recovered 2700' total, 1900' slightly sulferious salt water (24,800 PPM chlorides) 800' fresh water

Temp 86° F (bottom hole)

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL			6 3/4
DIRECTIONAL DRILLING			
REAMING			
TRIPS TO CHANGE BIT	2	1	
DRILLING WITH PARTIAL RETURNS			
COMBATING LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING			
FISHING			
DEVIATION SURVEY			
LUBRICATE RIG	1/4		1/4
CUT OFF DRILLING LINE			
REPAIR RIG			1
TEST CASING OR B.O.P			
CORING: SIDE WALL			
CORING: CONVENTIONAL			
CORING: DIAMOND			
CORING: WIRE LINE			
DRILL STEM TEST OPEN HOLE	5 3/4	2	
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING			
WAITING ON CEMENT			
LOGGING CASED HOLE			
PERFORATING			
WIRE LINE FORMATION TEST CASED HOLE			
DRILL STEM TEST CASED HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER		5	
TOTALS	8	8	8

TIME SUMMARY

DAY WORK	8	8	8
HOURS W/DP			
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK	8	8	8

JOINTS	FEET		WEIGHT	GRADE	THREAD	CLASS

SIZE O.D. CASING		
SHOE		
SET JOINT		
COLLAR		
JOINTS PIPE		
TOTAL		
RKB TO		
DEPTH SET		

PRINTED IN CAN. 38-228 5/63

SIGNED J. Davidson

DAILY DRILLING REPORT — REPORT NO. — DATE 1/JAN. 10/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF. CO.	ATLANTIC COL. CAR. MANITOU LAKE	7-21		DIST	CAN

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	12				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. J. Rhein

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-31°	17
2.	"	"	
3.			

LAST CASING, TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
10¾		42-H	17	504		47½
7-5/8		24-J			13.52	2944

REMARKS: TIGHT HOLE — CEMENT TO SURFACE — PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			6¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	2	6¾	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			1
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST	5¼		
OTHER		1	
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	
HRS. W/DP	
HRS. WO/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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2441.27 FT.
1	SINGLES D.P.	42.37 FT.
20	D.C. I.D. 3 O.D. 6¼	573.16 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
1	JARS.	5.70 FT.
	KELLY DOWN	17 FT.
	TOTAL	3108 FT.

WT. OF STRING 72000 LBS.

BIT RECORD

BIT NO.	D.S.T #1
SIZE	Top top sub
MFG.	I.S.I 30
TYPE	Valve open
NOZZLE NO.	Final shut
NOZZLE SIZE	
SER. NO.	Fluid Rec.
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	2964 + 3108
WEIGHT	2955
VISC.-SEC	
W.L.-C.C.	120 min
FLTR. CK.	120 min
PH	
SD. CONT. %	2700' Total
PRESSURE GRADIENT	1900' salt w.
	800' fresh w.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: W. Wilson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
3108	3108											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3108	¼							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.30	½	FINISH TRIP
12.30	1.00	½	HOT TACKLE IN. SERV. RIG
1.00	4.15	3¼	OPEN PACKER
4.15	6.15	2	SHUT PACKER IN
6.15	6.30	¼	BREAK DOWN HEAD + H.M. KEANS
6.30	7.00	½	TRIP OUT W/WET PACKER

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING 72000 LBS.

BIT RECORD

BIT NO.	20
SIZE	7¾
MFG.	HUGH
TYPE	W7
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	12092
DEPTH OUT	
DEPTH IN	3108
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
								5½		5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	1000	2	TRIP OUT W/ PACKER
1000	1015	¼	RIG SERV
1015			TRIP IN W/ BIT PICK D.C REAMER
	300	7¾	STABLEZERS
300	400	1	
			CLEAN 20FT TO BOTTOM

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2447.27 FT.
1	SINGLES D.P.	31.11 FT.
22	D.C. I.D. 2¾ O.D. 6¼	622.03 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	34.15 FT.
	TOTAL	3148 FT.

WT. OF STRING 70000 LBS.

BIT RECORD

BIT NO.	20
SIZE	7¾
MFG.	HW.
TYPE	W7
NOZZLE NO.	3
NOZZLE SIZE	11
SER. NO.	12092
DEPTH OUT	3148
DEPTH IN	3107
TOTAL FTG.	40
TOTAL HR. RUN	6¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	1.00	10.00
WEIGHT	8.4	9.3	9.3
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
3107	3113	30			45	15	1250	5½	68	5½		
						24						
						16						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	RIG SERV
415	515	1	CHANGE UNION & CAMERON VALVE
515	12.00	6¾	DRILLING 7¾ HOLE

DAILY DRILLING REPORT — REPORT NO. — DATE Jan. 9/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref. Co.	Atlantic Rol. Can. Manitou Lake	2-21		Wilt	Can

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S & T Drilling Co. Ltd.	1E		4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J. Davidson	W. B. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-360	14
2.	"	"	
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	Remarks
LAST CASING	13⅜		48-H	17	504		471	TIGHT HOLE Cement To Surface
TUBING OR LINER	8⅝		24-J			1397	2948	PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7¾	2¼
REAMING			
CONDITIONING MUD & CIRCULATING			½
TRIPS			2¾
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			2½
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	7441 FT.
	SINGLES D.P.	FT.
2	D.C. 2¾ I.D. 6¼ O.D.	573.96 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
	JARS	5.70 FT.
	KELLY DOWN	41.50 FT.
	TOTAL	3045 FT.
WT. OF STRING		72.000 LBS.

BIT RECORD

BIT NO.	19	
SIZE	7⅞	
MFG.	Sec.	
TYPE	H77	
NOZZLE NO.	Taken	
NOZZLE SIZE	out	
SER. NO.	706897	
DEPTH OUT		
DEPTH IN	2963	
TOTAL FTG.	82	
TOTAL HR. RUN	14	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	12.00	4.00	6.00
WEIGHT	9.1	8.7	8.4
VISC.-SEC	32	33	31
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT. — Water

DRILLER W. Wilson

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2991	3045	54			50	2.000	350	5½	70	5½	70	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Dead. T.L. Check Tools
12.15	9.50	7¾	Drlg. 7⅞ Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
26	STANDS D.P.	2449.27 FT.
1	SINGLES D.P.	31.24 FT.
	D.C. I.D. O.D.	573.96 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
	JAR	5.70 FT.
	KELLY DOWN	34.00 FT.
	TOTAL	3094 FT.
WT. OF STRING		72.000 LBS.

BIT RECORD

BIT NO.	19	
SIZE	7⅞	
MFG.	SEC	
TYPE	H77	
NOZZLE NO.	Taken	
NOZZLE SIZE	out	
SER. NO.	706897	
DEPTH OUT		
DEPTH IN	2963	
TOTAL FTG.	131	
TOTAL HR. RUN	21¾	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.00	11.00	3.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3045	3094	49			50	20	350	5½		5½	70	
					44	22	350					

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	Rig Serv. Check Mo Drill
8.15	4.00	7¾	Drilling 7⅞ Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	19	
SIZE	7⅞	
MFG.	SEC	
TYPE	H77	
NOZZLE NO.	out	
NOZZLE SIZE		
SER. NO.	706897	
DEPTH OUT	3108	
DEPTH IN	2963	
TOTAL FTG.	145	
TOTAL HR. RUN	24	
COND. OF BIT		
REAMER NO.	4-4-0	
REAMER TYPE		

MUD RECORD

TIME	6		
WEIGHT	8.4		
VISC.-SEC	28		
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3094	3108	14			44	22	350	5½		5½	70	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	5.00	1	Drilling 7⅞ Hole
5.00	5.15	¼	Rig Serv.
5.15	6.30	1¼	Drilling 7⅞ Hole
6.30	7.00	½	Circ.
7.00	7.15	¼	Survey
7.15	8.30	1¼	Trip Out
8.30	11.00	2½	Make up Packer
11.00	12.00	1	Trip in W/ Packer

DAILY DRILLING REPORT

REPORT NO. — DATE 1 JAN. 1966

OPERATOR: Atlantic Ref Co.

LEASE: Atlantic Ref Co. Fox Hunting Lake

WELL NO. 2-61 — FIELD OR DIST. — COUNTY Kust — STATE [illegible]

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO. 1

DRILL PIPE STRING: NO. — SIZE — TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT. OILWELL	A-280	11
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504		174	Ran 5 Sacks

PRIVATE HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			6
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	5	18½	1½
LUBRICATE RIG	¼	½	¼
DEVIATION SURVEY			
TEST B.O.P.	¼		
CUT OFF DRILLING LINE		1½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	1¾	3¼	
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	7	8	9

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41 54 FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	18
SIZE	7 7/8
MFG.	HTD
TYPE	V51
NOZZLE NO.	10-5
NOZZLE SIZE	8-8-8
SER. NO.	42125
DEPTH OUT	2963
DEPTH IN	2711 D.O.W.
TOTAL FTG.	252
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		
WEIGHT		
VISC.—SEC		
W.L.—C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: N. Alkoon

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	SERVICE RIG
12:15	1:00	¾	MAKE UP MAGNET & IRON & CORE TO LAND JUNK
1:00	2:00	1	TRIP OUT
2:00	3:00	1	MAKE UP MAGNET TRIP IN
3:00	3:30	½	WORK MAGNET ON JUNK
3:30	4:30	1	TRIP OUT
4:30	4:45	¼	FLUSH MAGNET CHECK BLIND RAMS
4:45	6:00	1¼	TRIP IN W/ MAGNET
6:00	6:30		WORK MAGNET
6:30	7:30		TRIP OUT
7:30	[illegible]		TRIP IN

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
25	STANDS D.P.	2354.44 FT.
	SINGLES D.P.	FT.
20	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY TAR O.D.	5.70 FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.50 FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	19
SIZE	7 3/8
MFG.	SEC
TYPE	H77
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	706897
DEPTH OUT	
DEPTH IN	2963
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		
WEIGHT		
VISC.—SEC		
W.L.—C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: L. Reliable

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0:00	8:15	½	RIG SERV
8:15	9:30	1¼	TRIP IN W/ MAGNET
9:30	10:00	½	WORK MAGNET & FIND JUNK SUB
10:00	11:00	1	TRIP OUT
11:00	11:30	½	CLEAN MAGNET & 2½ 4.45 CLEAN MAGNET
11:30	12:30	1	TRIP IN W/ MAGNET 24.5 WOO SLIP & CUT L
12:30	1:15	¾	WORK MAGNET
1:15	2:15	1	TRIP OUT

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	FT.
25	STANDS D.P.	2354.44 FT.
	SINGLES D.P.	FT.
20	D.C. I.D. O.D.	573.96 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY TAR O.D.	5.70 FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	41.50 FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	19
SIZE	7 3/8
MFG.	SEC
TYPE	H77
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	706897
DEPTH OUT	
DEPTH IN	2963
TOTAL FTG.	
TOTAL HR. RUN	6
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	7:00	10:00
WEIGHT	8.6	8.8
VISC.—SEC	30	32
W.L.—C.C.		
FL.TR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
2913	2941	28			HS	15	350	5½	68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	RIG SERV
4:15	6:00	1¾	TRIP IN W/ BIT
6:00	12:00	6	DRILLING 7⅞ HOLE

DAILY DRILLING REPORT

REPORT NO. | DATE JAN 7/66

OPERATOR: ATLANTIC REFINING CO
LEASE: ATLANTIC COLUMBIAN CARBON L-60
WELL NO.
FIELD OR DIST.: N.W.T
COUNTY
STATE

CONTRACTOR: S & T DRILLING CO. LTD.
RIG NO.: 16
DRILL PIPE STRING: NO. / SIZE
TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson
SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. Hamm

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING USING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
8 5/8		24-J			13.97	2948	PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		13.1	
LUBRICATE RIG	½	¼	
DEVIATION SURVEY			
TEST B.O.P.	1	¼	
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	4½	6	3
DRILL STEM TEST		0	
OTHER	½	6	5
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES / SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. 18 | SIZE 7 7/8 | MFG. REED | TYPE 451 | NOZZLE NO. 1-10K, SIZE OPEN | SER. NO. 421325 | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FL.TR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT | DRILLER
MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

FOOTAGE: FROM | TO — 2963
DR.-D RM.-R CORE.-C | CORE NO. | 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 SCL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION (×3)

TIME LOG | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	DETAILS
12.00	12.15	¼	SERVICE RIG.
12.15	2.00	1¾	FINISH HEADING UP
2.00	2.30	½	PRESSURE BLIND RAMS TO 300 PSI. HELD FOR 15 MIN.
2.30	4.00	1½	TRIP IN HOLE SLOWLY WITH T. MEASURING TO 1793 FT
4.00	4.30	½	PUT ON KELLY HOSE & BREAK CIRC
4.30	4.45	¼	PRESSURE HYDRIL TO 300 PSI HELD FOR 15 MIN
4.45	5.00	¼	PRESSURE PIPE RAMS TO 300 PSI HELD FOR 15 min.
5.00	8.00	3	W.O.C. CLEAN UP R.C.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. / SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FL.TR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT | DRILLER
MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

FOOTAGE: FROM | TO — 2963
DR.-D RM.-R CORE.-C | CORE NO. | 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 SCL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION (×3)

TIME LOG | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	DETAILS
8.00	8.15	¼	R.C. SERV
8.15	9.15	1	W.O.C.
9.15	10.15	1	FINISH RUN IN
10.15	11.15	1	DRILLING TO TOP PLUG
11.15	12.00	¾	PRESSURE HYDRIL AND PIPE RAMS 1200 PSI
			15 MIN OK.
12.00	4.00		W O C

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. 18 | SIZE 7 7/8 | MFG. REED | TYPE 451 | NOZZLE NO. 1-10K, SIZE OPEN | SER. NO. 421321 | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.-SEC | W.L.-C.C. | FL.TR. CK | PH | SD. CONT. % | PRESSURE GRADIENT | DRILLER
MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

Hit top of cement at 2323.41

FOOTAGE: FROM | TO — 2963
DR.-D RM.-R CORE.-C | CORE NO. | 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 SCL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION (×3)

TIME LOG | ELAPSED TIME | DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	DETAILS
4.00	7.00	3	W O C
7.00	7.45	2¾	DRILLING PLUG NUT TWO RUBBER TOOLS
7.45			AT 2330 + PATCH AT 2336
7.45	10.15	1	TRIP IN STDS. DRILL PIPE + 1 SINGLE
10.15	12.00	1¾	TAG TOP OF CEMENT AT 2323 TO TD 2963

DAILY DRILLING REPORT

REPORT NO. — DATE JAN 6/66

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF. CO. LTD	ATLANTIC COLUMBIAN CORBIN L-1		NWT		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J. W. Davidson	T. D. [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.			
2.			
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	8 5/8		24 - J			13.9		TIGHT HOLE
								PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	3½		
WAITING ON CEMENT	4	8	8
DRILL STEM TEST			
OTHER	½		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE FROM	FOOTAGE TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
	STANDS D.P.	FT.	BIT NO.		TIME														
	SINGLES D.P.	FT.	SIZE		WEIGHT														
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC														
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.														
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK.														
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH														
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %														
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT														
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED														
		FT.	TOTAL FTG.		TYPE	AMT.	TYPE	AMT.											
	KELLY DOWN	FT.	TOTAL HR. RUN																
	TOTAL	FT.	COND. OF BIT																
WT. OF STRING		LBS.	REAMER NO.																
			REAMER TYPE		DRILLER														

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.00	1	RIG TO CEMENT
1.00	3.30	2½	CEMENTING 8⅝ CASING
3.30	4.00	½	SET SLIPS
1.00	6.00	4½	TEAR OUT AIR EQUIPMENT & STEAM RAPS - HYD. LINES ETC.
			CLEAN OUT CELLAR

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE FROM	FOOTAGE TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
	STANDS D.P.	FT.	BIT NO.		TIME														
	SINGLES D.P.	FT.	SIZE		WEIGHT														
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC														
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.														
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK.														
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH														
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %														
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT														
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED														
		FT.	TOTAL FTG.		TYPE	AMT.	TYPE	AMT.											
	KELLY DOWN	FT.	TOTAL HR. RUN																
	TOTAL	FT.	COND. OF BIT																
WT. OF STRING		LBS.	REAMER NO.																
			REAMER TYPE		DRILLER														

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
6.00	9.15	¼	RIG SERV
9.15	4.00	7¾	HEAD UP.
			Land casing in slips w/ 30,000# tension
			Cut off casing and head up

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE FROM	FOOTAGE TO	DR. RM. CORE	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
	STANDS D.P.	FT.	BIT NO.		TIME														
	SINGLES D.P.	FT.	SIZE		WEIGHT														
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC														
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.														
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK														
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH														
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %														
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT														
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED														
		FT.	TOTAL FTG.		TYPE	AMT.	TYPE	AMT.											
	KELLY DOWN	FT.	TOTAL HR. RUN																
	TOTAL	FT.	COND. OF BIT																
WT. OF STRING		LBS.	REAMER NO.																
			REAMER TYPE		DRILLER														

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	12.00	8	HEAD UP.

DRILLING—COMPLETION—WORKOVER LOG

UNIT OR LEASE Atlantic Col Car Manitou Lake WELL NUMBER L-61 DATE 1/5/66

FIELD Explecatory DISTRICT No Alta

COUNTY OR PARISH PROVINCE OR STATE N. W. T

CONTRACTOR S&T Drilling Rig # 1E

I. 2963 (0') Washover casing fish (8 5/8" casing top of fish at 2336') with Hemco washover shoe in preparation to run casing patch.

II. 2963 (0') Running 8 5/8" casing with Bowen casing patch and H.O.W.C.O. D.V. Cement Collar on bottom of first length.

III. 2963 (0') Running 8 5/8" casing and working casing patch over casing fish.

Ran 76 Jts (2349.67') of 8 5/8" 24# J-5 casing with Bowen 8 5/8" casing patch & Haliberton D.V cement collar on first length. In 5 hrs. worked patch down 6" after encountering trouble sliding patch over fish. Pump pressure increased from 0 to 750 P.S.I and 10,000 lbs pull over casing weight did not pull new casing string of fish. Estimated patch is 1 ft. over casing fish. Opened D.V. collar and established circulation with no difficulty.

Cemented Csg with 375 sax Oilwell cement plus 12% gel. Displaced plug down with 140 bbls. fluid and pressured up on plug to 2000# for 8 min. Small flow back when pressure released. Pressured up to 500 P.S.I and shut in. J.C. @ 3:00 AM 1/6/65

Slurry weight 12.2 lbs/gal, slurry temp 80° F

Apparent full circulation during cementing operation. Fluid in annulus slowly dropped after job completed. New casing string weight 54,000#, after cementing 42,000# and casing landed in slips with 30,000# tension

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL			
DIRECTIONAL DRILLING			
REAMING			
TRIPS	4 3/4		
DRILLING WITH PARTIAL RETURNS			
COMBATING LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING			
FISHING	2 3/4		
DEVIATION SURVEY			
LUBRICATE RIG	1/4		
CUT OFF DRILLING LINE	1/4		
REPAIR RIG			
TEST CASING OR B.O.P.			
CORING — SIDE WALL			
CORING — CONVENTIONAL			
CORING — DIAMOND			
CORING — WIRE LINE			
DRILL STEM TEST OPEN HOLE			
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING		8	8
WAITING ON CEMENT			
LOGGING CASED HOLE			
PERFORATING			
WIRE LINE FORMATION TEST CASED HOLE			
DRILL STEM TEST CASED HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER			
TOTALS	8	8	8

TIME SUMMARY			
DAY WORK	8	8	8
HOURS W/DP			
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK	8	8	8

JOINTS	FEET		WEIGHT	GRADE	THREAD	CLASS
76			24	J-5	8 rd	New

SIZE O.D. CASING		
SHOE Bowen 8 5/8 X 10 7/16	2	40
SET JOINT —	2	22
COLLAR Howco DV		
76 JOINTS PIPE	2316	81
TOTAL		
RKB TO Csg Head	15	57
DEPTH SET	2337	00

PRINTED IN U.S.A. 38-228 5/63

SIGNED J. W. Davidson

DAILY DRILLING REPORT

REPORT NO. 118 DATE Jan. 5 1966

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co.	Atlantic Pet. Pan American Lake	121		Just	La.

CONTRACTOR	RIG NO.
S & T DRILLING CO. LTD.	12

DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. L. Hanford

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	14"
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42-H	17	504	15.5	514.18
4 1/2		24-J	16	2771	13.77	2784

REMARKS: PRIVATE — TIGHT HOLE — Cemented to surface — Cemented w/1200 SX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			7
TRIPS	4 3/4		
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	1/4		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	6	8	1
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			5
FISHING	2 1/4		
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	7	8	7

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VISC.—SEC | W.L.—C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: L. Wilson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
	2963											

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:30	12:45	1/4	SLIGHT TAG — F.I.H
12:45	12:30	1/4	SERVICE RIG
12:30	5:00	2	TRIP OUT
5:00	5:00	1	BREAK BRAKE + CHANGE LINERS — ADJUST SAME
5:00	5:15	1/4	TAG 23' DRL. LINE
5:15	1:30	17	TRIP IN WASHSHOE + ME
1:30	5:00	2	WASH TAG TO BTM
5:00	5:30	1/2	TRIP OUT

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VISC.—SEC | W.L.—C.C. | FLTR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: L. Pelletier

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
6:30	9:00			Rig up To Run Casing 2 1/2 + Run Casing								

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	WOD	4	RUN CASING

Ran 76 Jts of 8 5/8" 24# J-55 Casing (2349.47'). Bowen 8 5/8" casing patch and 4 Univ-D.V cementing collar on bottom of first joint. Cemented Csg with 375 sx Nilwell cement + 12% gel. Displaced plug down with 140 bbls fluid. Pressured plug to 2000 P.S.I for 8 min. Job completed at 3:00 AM 1/6/66.

Bowen Csg patch used to connect new casing string to casing fish top @ 2336

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD

TIME | WEIGHT | VISC.—SEC | W.L.—C.C. | FLTR. CK | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
	2963											

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	500	1	RUN CASING
500	600	1	RIG TO PIPE
600	700	1	PIPE
700	1200	5	WORING PATCH OVER CASING

DRILLING CR... / DATE ... / WELL NAME ... / COMPANY ... / TOOL PUSHE...

CREW / DRILLER / DRKMAN / MTRMAN / FIREMAN / FLRMAN / FLRMAN / FLRMAN / FLRMAN

NO. OF DAYS

CREW / DRILLER / DRKMAN / MTRMAN / FIREMAN / FLRMAN / FLRMAN / FLRMAN

NO. OF DAYS

DAILY DRILLING REPORT

REPORT NO. 12 DATE Jan. 5/06

OPERATOR: Atlantic Rel Ltd.

LEASE: Atlantic Rel Par Hamilton Lake

WELL NO. 1-21 | FIELD OR DIST. | COUNTY Lake | STATE Ont

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 12

DRILL PIPE STRING NO. / SIZE | TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. M. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M. L. Thomas

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15.5	514	Cemented to Surface
7 5/8		24-J	76	2771	15.77	2948	Cemented w/1200 SX

PRIVATE
TIGHT HOLE

DRILLING CR
DATE
WELL NAME
COMPANY
TOOL PUSHE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			7
TRIPS	4 3/4		
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	1/4		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	8	8	1
WAITING ON CEMENT	-		
DRILL STEM TEST			
OTHER			5
FISHING	2 1/4		
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	7	8	7

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: L. Wilson

FOOTAGE: FROM / TO — 2963

DR.—D RM.—R CORE—C | CORE NO. | 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 SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4	Polish Top of Fish
12:15	12:30	1/4	Service Rig
12:30	1:30	1	Trip out
1:30	2:00	1/2	Break Bowen Hole Reamers + Wishhauer Shoe
2:00	3:15	1 1/4	Slip 23' Drill Line
3:15	4:30	1 1/4	Trip in Wishhauer Shoe
4:30	5:00	1/2	Polish Top of Fish
5:00	6:30	1 1/2	Trip out

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: L. Bellisle

FOOTAGE: FROM 1630 / TO 9:30 — Rig up to Run Casing 7 5/8" Csg

DR.—D RM.—R CORE—C | CORE NO. | 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 SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	1:00	4	Run Casing

Ran 76 Jts of 25/8" 24# J-55 Casing (2349.47'). Bowen 8 5/8" casing patch and H.O.W. x-o-v cementing collar @ bottom of first joint. Cemented Csg with 375 sx Oilwell cement + 12% gel. Displaced plug down with 140 bbls fluid. Pressured plug to 2000 P.S.I for 8 min. Job completed at 3:00 AM 1/6/06.

Bowen Csg patch used to connect new casing string to casing fish top @ 2336

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER

FOOTAGE: FROM / TO — 2963

DR.—D RM.—R CORE—C | CORE NO. | 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 SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1	Run Casing
5:00	6:00	1	Hit Jt Circ
6:00	7:00	1	Circ
7:00	12:00	5	Woring Each Over Casing

DRILLING CREW / DRILLER / DRKMAN / MTRMAN / FIREMAN / FLRMAN / FLRMAN / FLRMAN / FLRMAN

NO. OF DAYS

DRILLING CREW / DRILLER / DRKMAN / MTRMAN / FIREMAN / FLRMAN / FLRMAN / FLRMAN / FLRMAN

NO. OF DAYS

DRILLING CREW / DRILLER / DRKMAN / MTRMAN / FIREMAN / FLRMAN / FLRMAN / FLRMAN / FLRMAN

NO. OF DAYS

DAILY DRILLING REPORT

REPORT NO. 27 DATE 2-20-1966

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic R.C.C.	Atlantic Oil Corp. Huntsville	1-11			

TIGHT HOLE
PRIVATE

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
H.K. Walters	

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	A-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42-H	17	704	10.5	714
2 3/8		J-55	96	2971	13.97	2984

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 1/2	4 1/2	3
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	2		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING	23	3 1/2	5
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP	7	8	8
HRS. WO/DP	1		
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES STRANDS SIZE
FEET STRIPPED
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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	
	D.C. I.D. O.D.	FT.	MFG.	
	D.C. I.D. O.D.	FT.	TYPE	
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
Ran 7 jts 11 3/4" Csg to 704 with Halliburton Float Shoe and Collar												
Ck.												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11:00	11:15	1/4	Rig up
11:15	1:30	2 1/4	Cut off line
1:30	1:45	1/4	Ream to bottom 704 in Bit
1:45	2:45	1	Trip in Hole Ream 704 to 717 Drill to 725
2:45	4:30	1 3/4	Pick up Drill Collars
4:30	4:50	1/4	Lost Nut to Bottom Crown
4:50	5:00	1/4	Circ. Remove Tong Dies
5:00	6:45	1 3/4	Trip out with Bit

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	11
	D.C. I.D. O.D.	FT.	MFG.	Hughes
	D.C. I.D. O.D.	FT.	TYPE	OSC
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	35517
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
6:45	7:15	3		Shale w/ Anhydrite Stks								
7:15	2:45	4		Lost Cone Washed out Drill Collar								
2:45	5:00	4 1/4		Trip in								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	1/4	R.C. Seal
8:15	10:15	2	Trip in.
10:15	11:00	3/4	Break Circ and Wash over
11:00	12:30	1 1/2	Trip out.
12:30	3:30	3	Trip in w/ 11" Bit.
3:30	4:00	1/2	Break Circ
Drill out 10 7/8"			Ream 10 7/8" Wash and Ream to 2300' Circulate & Condition Mud preparatory to Running Logs.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	
	D.C. I.D. O.D.	FT.	MFG.	
	D.C. I.D. O.D.	FT.	TYPE	
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
Drill out 10 7/8" Csg. Shoe				Ream Hole from 2300' to 2337'								12 3/4"
to 2337.												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1:00	1:15	2:15	Circ. out 10 7/8" 11" Bit.
1:15	8:00	13 1/4	Trip out.
8:00	9:15	1 1/4	Trip in w/ Hughes Hailer 8 1/2" Hole
9:15	11:15	2	Clean out 127' of Cement & Fill to Top of Fish
11:15	12:00	3/4	Fish Top of Fish
Ream 10 7/8" Hole & Circ. Sks.			Ream 10 7/8" Hole from 2210' to 2337' Washed
out Hole at 2337 and started Running Logs			

DAILY DRILLING REPORT

REPORT NO. 12 DATE Jan 31st

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic R.L. P.	Atlantic P.L. Unit Battery Lake	101		Unit	Sask

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	12				

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Wheatland	F-280	11"
2.		"	
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
	13 3/8		48-H	17	734	15.5	719.77
	9 5/8		36-J	76	3221	13.77	3207.77

REMARKS: PRIVATE TIGHT HOLE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: W. K. Hutton

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tuk Tu

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3		
LUBRICATE RIG	½		
DEVIATION SURVEY	1		
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	11½	8	8
COMPLETION WORK 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	1½	7½	8
HRS. WO/DP	1½	½	
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
	WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.–SEC	
W.L.–C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: W. Hutton

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
Surface	1st Bit Trip			Unconsolidated Sand, Gravel, Clay	60	6-8	1000	6½	120			SGL
1st Bit Trip	3227			Lightly Consolidated Sand, Gravel, Clay (Glacial)	60	6-8	1000	6½	120			SGL
3227	3337			Lightly Consolidated Sand, Gravel, Clay (Glacial)	60	6-8	1000	6½	120			SGL

DEVIATION RECORD: Cut at 734 and 1st Trip.

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	Service Rig
12:15	1:45	1½	Trip out 5 stands to 1 Std. 45' of Casing
1:45	3:00	1¼	Clear Drum Etch Service Truck
3:00	4:30	1½	Trip in with Bear Trap in
4:30	9:00	3½	Circ Clean Hole 10' to Bottom
9:00	11:00	2	Trip out Pulling Std. Lay Down Bit Sub & Bit
11:00	22:30	11½	Rig up Casing Crew & Run 3337' 9⅝ 36# J-55 ST&C Casing to Bottom
22:30	2:00	3½	Circ & Condition Mud for Cementing
2:00	4:00	2	Rig up Cementers & Pump 10 bbls Fresh Water Ahead of Cement

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
	WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.–SEC	
W.L.–C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Stu Bolduc

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
Fishing Assy	Milled Up			Mill stuck on Fish								
Mill Up				Fish								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Ser
8:15	8:45	½	Circ Wait on Order
8:45	12:00	3¼	Lay Pipe Down
12:00	12:30	½	Measure Pipe and Mark Pipe
12:30	5:30	5	Run in Pick up Pipe
5:30	6:00	½	Pick up To Circ
6:00	8:00	2	Circ Clean To Bottom

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
	WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.–SEC	
W.L.–C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
Ground Level	Kelly Bushing			14.6 of 52 Hit at 3337								
Kelly Bushing	Ground Level			Kelly Bushing Exceeded Ground Level								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:30	5	Run in Pick up Pipe
5:30	6:00	½	Rig to Circ
6:00	8:00	2	Circ Clean To Bottom
8:00	10:30	2½	Trip in Fish Mill not Come
10:30	12:00	1½	Trip out
12:00	Mid		Rig Up Casing Crew & Set Shoe & Cap @
3337'	1		Joint 50 Jts 9⅝ 36# J-55 ST&C with Centralizers
on Bottom	2:00		Cond & Circ for Cementing & Test Lines

DAILY DRILLING REPORT

REPORT NO. 25 DATE [illegible]

OPERATOR: Atlantic Bel Co.

LEASE: Atlantic Bel Co. Hunton Lake

WELL NO. 1-R1

FIELD OR DIST.

COUNTY: Just

STATE: Okla.

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO.: 1E

DRILL PIPE STRING NO. / SIZE

TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: W.K. Hacker

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	C-350	14"
2.		"	"
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	7"		20-H	13	504	12.22	1496	Cement To Surface
TUBING OR LINER	2"		4.7	82	1771	13.22	1784	Perforated Liner 51

TIGHT HOLE PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3½		2½
LUBRICATE RIG	½		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	1		
REPAIR RIG		5	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING	4½	3	5½
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	7

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP	5½	8	
HRS. WO/DP	4½		
HRS. STANDBY			
TOTAL DAY WORK	8	8	

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FL.TR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: [illegible]

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
6:00	10:00	4	FINISH TRIP OUT
10:00	1:00	1	CHANGE TOOLS & CLEAN TOOL (Hunton)
1:00	2:00	1	TRIP IN WITH BIT
2:00	3:00	1	LOCATE FISH — NOT HOLDING
3:00	4:00	1	TRIP OUT
4:00	5:15	1¼	MAKE UP OVERSHOT & SL. LINE
5:15	6:30	1¼	TRIP IN WITH OVERSHOT
6:30	7:45	1¼	TRIP IN WITH OVERSHOT & JAR UP 5 TIMES SLOW KELLY FREE OFF KE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FL.TR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER: C. W. Cochran

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
*2	Washed Ri											
(Tr												
Co												

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10:00	2	TRIP OUT W/OVERSHOT LOST GRAPPLES SPRINGS
			OUT REC OVERSHOT.
			RAN IN HOLE W/MILL JARS CLEAN OUT
10:00	4:00	6	CHAIN IN COMPOUND (Failure)
*1			

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD: TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FL.TR. CK / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DRILLER

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION / DEPTH / DEV. / DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00			ROTATE THRU THERM SECOND CUT IN CASY at 2465 Run
	5:00	4	IN & CIRC CIRC & CLEAN TO BOTTOM
5:00	9:00	1	TRIP OUT W/MILL
9:00	10:00	1	HOLE IS MY MUCH TIGHT
10:00	11:15	1¼	TRIP IN TO 2465
11:15	11:30	¼	CIRC & CLEAN OUT TO 2465
11:30	12:00	½	TRIP OUT W/MILL & JARS. Down Load JOB
			Left Casing Onto Top of Csg.

DAILY DRILLING REPORT — REPORT NO. 44 — DATE Jan 1965

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref. Co.	Atlantic Cal. Car. Whaitow Lake	1-61		Hunt	Gulf Coast

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S & T DRILLING CO. LTD.	16				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
H. R. Walters	T. W. Hinds

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-350	7
2.	"		
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
16"		42-H	17	704	12 FT HIA	Cement to Surface
9⅝		36-J	96	4271	12.77 - 7-H	Cemented w/200 SX

REMARKS: TIGHT HOLE PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	¼		
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	¼		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3		
FISHING		7¾	8
COMPLETION WORK 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	6	7½	5
HRS. WO/DP	2	1½	3
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES ____ SIZE ____

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER A. H. Koren

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
	#1			Lattimore @ 3337								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Service R.G. 630 To 730 Trip in Hole w/Spear
12.15	12.30	¼	Tr. - Set Catcher Tools + Spear Fish
1.30	1.30	1	Cut + Slip - Cut Casing 730 To 2.00 Trip To Set Plug
1.30	2.30	1	Trip out Spear Jar Hung
2.30	3.15	¾	Trip in w/Spear + Spear Fish Not Yet
3.15	4.30	1¼	Line Would Not Hang in Fish Trip out
4.30	5.30	1	Slip - Cut Line Wait for Light
5.30	6.30	1	Unload Fish Haul Trailer From Slave Lake Pick up New Jars in Spear

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
215	400	1¾		Spear Fish Trip out Plugged Pipe								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.45	¾	Spear Fish Slips Sliding on Fish
8.45	9.45	1	Trip out
9.45	10.00	¼	Rig Serv
10.00	10.30	½	Service Cutter
10.30	12.00	1½	Run in Hole w/Cutter + Chafer Bars
12.00	12.45	¾	Set Slip Cut Casg at 2272½
12.45	1.45	1	Trip out
1.45	2.15		Trip in Hole w Spear

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
Pulled out Laid out Fishing 2233 to 22					76							
1 Trip weight 39 on 3 Dressed fishing tools and Ran												
Rig and Released and left for Grande Prairie												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
					3			

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	6.00	2	Finish Trip out w Fish
6.00	7.00	3	Clean up Floor Release Spear + Lay down Csg
9.00	9.45	¾	Trip in Slowly w/Spear
7.15	10.00	¼	Make up Kelly Jar Drink Tea
10.00	12.00	2	Tr. Spear Fish Tight at Shoe Tried at 2 Different Pts
Jar Tools Circulating to Unload Sand Put Stop Valve			
at 2534. Attempt to Pull Pipe Free Pulled to 90,000#.			
Left Fish Packed Mix Kill Mud Put in Hole Commence			

DAILY DRILLING REPORT

REPORT NO. 43 DATE Oct. 31/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref Co.	Atlantic Col. Cor. Manitou Unit	1-61		Dust	Col.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
W. Hodges	Ralph Adams

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-380	17
2.	"	"	"
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING TUBING OR LINER	11¾		42-H	17	504	15.5'	14.98'	CEMENT TO SURFACE
	7⅝		24-1	96	2771	13.9'	2784'	LANDED @ 2800 SI

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	5½	4½	9½
LUBRICATE RIG	½	½	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE	½	½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	2½	2½	5½
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			
HRS. W/DP			
HRS. WO/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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK.	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED	
		FT.	TOTAL FTG.		TYPE / AMT. / TYPE / AMT.	
	KELLY DOWN	FT.	TOTAL HR. RUN			
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.			
			REAMER TYPE		DRILLER W. Adams	

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CONTD—C
				Dione 0-26'								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	Service S.L.
12.15	1.45	1½	Spear casing + try to pull it and did not come
1.45	2.45	1	Trip out standing back D.C. chain & 1 stand
2.45	3.15	½	Service cutter
3.15	4.15	1	Trip in w/cutter @ 2220'
4.15	5.15	1	Cutter would not go through it pulled out trip out
5.15	5.45	½	Slip + 3' drlg. line
5.45	6.45	1	Trip in w/mill + mill over fish (trip out) Trip in

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED	
		FT.	TOTAL FTG.		TYPE / AMT. / TYPE / AMT.	
	KELLY DOWN	FT.	TOTAL HR. RUN			
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.			
			REAMER TYPE		DRILLER	

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CONTD—C
				Dione-30' Tight Hole								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	8.15	¼	Rig Serv
8.15	9.15	1	Trip in w/cutter unable to pass into fish @ 2223'
9.15	10.00	¾	Trip out
10.00	1.15	3¼	Trip in w/mill + mill thru fish (mill) @ 2270'
1.15	2.00	¾	Trip out
2.00	3.00	1	Change Belly springs + Slip line
3.00	4.00	1	Run in w/cutter

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FL.TR. CK	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN		MUD & CHEMICALS ADDED	
		FT.	TOTAL FTG.		TYPE / AMT. / TYPE / AMT.	
	KELLY DOWN	FT.	TOTAL HR. RUN			
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.			
			REAMER TYPE		DRILLER	

FOOTAGE FROM	FOOTAGE TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CONTD—C
				Dillon-34° Tight Hole	Ed							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	6.00		Finish running in hole try + break circ could not
			break circ. Pumped pipe break off kelly hose
		2	+ drain kelly
6.00	6.45	¾	Try get cutter slips
6.45	8.30	1½	Set slips cut csg with nut circ
8.30	10.15	1¾	Trip out use mud pan in 2 stands
10.15	11.00	¾	Change dies in cutter + run in hole + cut csg
11.00	12.00	1	Trip out + lay cutter

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		Calculated for 3 men	
DRKMAN		Not	
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 42 DATE [illegible]

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic B.C. Co.	Atlantic Col. Gas Whitow - Abe	C-61		NWT	CAN.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S&T DRILLING CO. LTD.	12				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
W. K. Walden	W. K. Howard

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-3S	14
2.	"		
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42 H	11	504	12.5 K	1149	CEMENT TO SURFACE
8 5/8		24 J	76	2971	13.5 K	2744	CEMENTED W/400 SX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	5		5 1/2
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		3/4	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3	3 1/2	5 1/2
FISHING		3 1/4	8
COMPLETION WORK 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	7 1/2	4 1/2	5 1/2
HRS. WO/DP	3 1/2	3 1/2	2 1/2
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO. 1 — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. BODY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER V. Olsen

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCHL-S PAR'EL-P COMP-C
				7:00 C-32'								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	2:00	2	TRIP OUT PUT ON KELLY TWICE TO WORK TIGHT SPOTS
2:00	2:15	1/4	SLIP 93' DRLG LINE SERV.
2:45	3:45	1	TRIP IN HOLE W/ MAGNET
3:45			TRY & WORK MAGNET THROUGH COLLAPSED CASING. NO GO
	4:00	1/4	POOH TO THROUGH @ 2233 S.L.M.
4:00	5:15	1 1/4	TRIP OUT
5:15	6:15	1	TRIP IN HOLE W/ MILL
6:00	8:00	2	REAM COLLAPSED CASING @ 2233 to 2244'

DAY TOUR

NO. 2 — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. BODY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCHL-S PAR'EL-P COMP-C
				3:30 C-28' Hard Sticky; U-None Clear								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:15	1 1/4	TRIP OUT W/ MILL
9:15	10:15	1	SLIP & CUT WIRE RIG SERV
10:15	12:45	2 1/2	WAIT FOR NEW CUTTER Ordered via Rel. 3106 Ltd in Fort
12:45	2:45	2	UNLOAD MCCULLOUGH CUTTER RUN IN HOLE
2:45	4:00	1 1/4	SET SLIPS & CUT CASG @ 2262 Measured
			Cutter Rounds indicated casing intact below.

EVENING TOUR

NO. 3 — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. BODY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCHL-S PAR'EL-P COMP-C
				12:00 C-28'								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	1/4	Cut 8" CASG NO SUCCESS mis-RUN
4:16	5:45	1 1/2	TRIP OUT W/CUTTER
5:45	7:15	1 1/2	Put in NEW CUTTERS RUN IN
7:15	8:15	1	SET SLIPS CUT CASG @ 2264
8:15	9:45	1 1/2	TRIP OUT SLOWLY W/CUTTER
9:45	10:15	1/2	TRENT DOWN CUTTER & MAKE UP SPEAR
10:15	12:00	1 3/4	TRIP IN HOLE SLOWLY W/SPEAR (Hunted)

EVENING TOUR ____ P.M. ____ P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		Left Ahmo Spear at 2350 RUN.	
DRKMAN		Turn to 200,000 when Spear	
MTRMAN		Left Ahmo Pulled spear to Drink	
FIREMAN		Left Ahmo Spear @ 2295 U Picked	
FLRMAN		Went 340,000 when Spear Came	
FLRMAN		to Catch Slips Pulled. Could not	
FLRMAN		set Spear to reset. In Bunkhouse	
		Used to work Spear all day at	
		Casing at 2233.	
		0	

NO. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 11 DATE —

OPERATOR: ATLANTIC REF. Co.

LEASE: ATLANTIC CST. CAL TAYLOR LAKE

WELL NO. [illegible]-A1

FIELD OR DIST.

COUNTY: WEST

STATE: CAL.

CONTRACTOR: S&T DRILLING CO. LTD.

RIG NO. 15

DRILL PIPE STRING NO. / SIZE

TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: K.K. Walters

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A.J. Quill

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	A-320	14
2.			
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	704	17.57	1977	CEMENT TO SURFACE
7 5/8		24-J	96	3771	13.97	3445	CEMENTED W/ [illegible]

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT Casing Cutter		5¼	
DRILL STEM TEST			
OTHER	7½	9¾	
FISHING			8
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK		
HRS. W/DP	17½	18½
HRS. WO/DP	6½	1½
HRS. STANDBY		
TOTAL DAY WORK	24	20

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.

MORNING TOUR

NO. — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. BODY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. [illegible]

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CON'D—C
				Top Rule E—10 F, Hole Full								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	SERVICE RIG
2:15	7:00	7¾	WAIT ON JEN CASING CUTTER

DAY TOUR

NO. — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. P/DY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. Parker

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CON'D—C
				Hole Full — 38°, 12:00 — E-38°								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:00	2	FINISH RUNNING IN HOLE
			TRY 4 SET SLIDS WOULD NOT SET GOING THROUGH
6:00	6:30	½	TIGHT SPOT IN CASING COLLAPSED BELLY SPRINGS
6:30	7:45	1¼	TRIP OUT WORK TIGHT SPOT IN COLLAPSED CASG
	8:00	¼	LOST CASING CUTTER KNIFES & SLIP DIES
8:00	9:30	1½	RUN IN HOLE W/ MILL & MILL TIGHT SPOT @ 3262
9:30	10:30	1	MILL TIGHT SPOT @ 3232
10:30	12:00	1½	POH TO BUTTON & MILL

EVENING TOUR

NO. — DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	FT.
SINGLES D.P.	FT.
D.C. I.D. O.D.	FT.
D.C. I.D. O.D.	FT.
STB. BODY O.D.	FT.
STB. BODY O.D.	FT.
RMR. BODY O.D.	FT.
SUBS O.D.	FT.
BIT OR C.B.	FT.
	FT.
KELLY DOWN	FT.
TOTAL	FT.
WT. OF STRING	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P CON'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

EVENING TOUR ____ P.M. ____ P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		[illegible]	
DRKMAN		[illegible]	
MTRMAN		[illegible]	
FIREMAN		[illegible]	
FLRMAN		[illegible]	
FLRMAN		[illegible]	
FLRMAN		[illegible]	
		[illegible]	
		[illegible]	
		[illegible]	
		[illegible]	

NO. OF DAYS ____ SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 40 DATE 12-JULY-5

OPERATOR: ATLANTIC REC Co.

LEASE: ATLANTIC COL. CAR MANITOU LAKE

WELL NO. 2-161 | FIELD OR DIST. | COUNTY N.W.T | STATE MAN.

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 1

DRILL PIPE STRING NO. / SIZE | TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: H.K. Masters

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T.V. Romaine

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT. OWAL	A-30	14
2.			
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15.5	489	CEMENT TO SURFACE
7 5/8		24-H	76	2991	13.7	2748	CEMENTED WITH 250 SX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	2 1/2	1 1/2	2 3/4
LUBRICATE RIG	1/4		1/4
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		1	
REPAIR RIG		3 1/2	
CORING			
WIRE LINE LOGGING	3		
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			5 1/4
FISHING		1 2 1/4	1/4
COMPLETION WORK: 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	4 4	8	4 4
HRS. WO/DP	3 1/2		3 1/2
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR — 11 1/4

NO.		
17	STANDS D.P.	FT.
1	SINGLES D.P.	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
	JARS	6.00 FT.
	KELLY DOWN	36.00 FT.
	TOTAL	FT.
WT. OF STRING	52,000	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. Hoar

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	SERVICE S.T.
12.15	3.15	3	TRACK OUT OF TOOL TO 2 FIGHTON JUNK
			8 3/4" WI SCHLUMBER LOG #1
3.15	3.45	1/2	MAKE UP BOTTOM HOLE CUTTER
3.45	6.00	2 1/4	TRIP IN HOLE SLOWLY MEASURE IN HOLE
6.00	6.30	1/2	TRACK SUBSTRUCTURE
6.30	6.45	1/2	WORK TUFF
6.45	8.00	1 1/4	WELD WASHED OUT MUD ROLL ON SUCTION TANK

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING	8,000	LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. Pomeroy

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D-C
#1				SHALE, LIMESTONE, SANDSTONE & Coal	95	2 to	2220					Reamed
SLM2	2418			Formed Ins Co @ 2237 (LM)								
mud cut) Cut @ 2418, Dilled Mud Up Cut @ 2446,												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00			WELD MUD ROLL ON MUD TANK FOR SETING MAKE
	11.30	3 1/2	NEW SET LINE 2" PIPE
11.30	1.30	2	Change Csg w/ Csg Cutter
1.30	1.45	2 1/4	TRY SET CASG CUTTER SLIPS #1 Knife set to cut to
1.45	3.00	1 1/4	TRIP OUT SLIPS would NOT HOLD) be beyond limits
3.00	4.00	1	SLIP & CUT DRLG LINE of cutters

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.30	1/2	SERVICE UP CASG CUTTER & SLIPS
4.30	6.30	2	TRIP IN HOLE W/ CASG CUTTER MEAS IN
6.30	8.00	1 1/2	TRY SET SLIPS would NOT SET
8.00	9.45	1 3/4	TRIP OUT W/ CUTTER #1
9.45	12.00	2 1/4	WAIT on NEW CASING CUTTER
			#1 Thread protectors should be used on all tools
			to insure NPC Connection. Internal-External Pattern
			must be used

DAILY DRILLING REPORT

REPORT NO. 37 DATE DEC. 3/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF. CO.	ATLANTIC COL. C/AK. HAMILTON LAKE	E-61	N.W.T.	B.W.T.	CAN

CONTRACTOR	RIG NO.
S & T DRILLING CO. LTD.	12

DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
W.K. Walters	T.J.B. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	A-350	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15.57	497	CEMENT TO SURFACE
1 2/4		24-J	76	2771	13.77	2784	CEMENTED WITH 500

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & 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 Lay Cat	8	8	1
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	0

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP	8	8	8
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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2265.77 FT.
2	SINGLES D.P.	63.88 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	3.10 FT.
1	SUBS O.D.	661 FT.
	BIT OR C.B.	FT.
	JACS	6.00 FT.
	KELLY DOWN	27.13 FT.
	TOTAL	29.63 FT.
WT. OF STRING		60000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER H. Wilson

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	9:00	9	Wait on Schlumberger Truck to Lot 51 x 23 Dike Line
			Schlumberger Arrived Location 9:10 PM Nov 2
			Checked with Foreman, Decided not to Run Tool
			Found Adapter for Recorder Shorting Out on
			Head & Cable, Rusting & Tried Time & Time Again
			Without Luck to Get & Adapter in Operating Order
			Schlumberger Left Location 1:45 PM Nov 3

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2265.73 FT.
2	SINGLES D.P.	63.11 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	3.10 FT.
	SUBS O.D.	6.61 FT.
	BIT OR C.B.	FT.
	JACS	6.00 FT.
	KELLY DOWN	27.13 FT.
	TOTAL	2963 FT.
WT. OF STRING		60000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:10		WAIT ON SCHLUMBERGER TO LOG JACK SUBSTRUCTURE
			TO STRATON DERRICK
			Ending Log Logged in @ 2:15 PM Nov 2 Logged
			Gateway to Basin 310 JWN Grounded due to
			Indicated No Instructions Received to Take Down
			to Initiation Flight Gear to PWA Cutter PWL
			15:00 each and Field Rig Doc 9:46 PM Nov 3
			Rendered Any Wireline Waiting

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2265.73 FT.
2	SINGLES D.P.	63.11 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY	FT.
	RMR. BODY O.D.	3.10 FT.
	SUBS O.D.	6.61 FT.
	BIT OR C.B.	FT.
	1 JACS	6.00 FT.
	KELLY DOWN	27.13 FT.
	TOTAL	2963 FT.
WT. OF STRING		62000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8	WAIT ON SCHLUMBERGER JACK SUBSTRUCTURE
			Continued to Next Report Mobile Meeting
			Flight Gateway PWL Arrived Location 4:15 PM
			Nov 3 Rubber Logging Preparing to Log

DAILY DRILLING REPORT

REPORT NO. 38 DATE DEC. 24 1963

OPERATOR: ATLANTIC REF. CO.

LEASE: ATLANTIC COL. CAR. MANITOU LAKE

WELL NO. I-61 | FIELD OR DIST. N.W.T. | COUNTY N.W.T. | STATE CAN.

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 12

DRILL PIPE STRING: NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J.K. Walters

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T.J.O. Kinsella

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	WATSON AE	K-388	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	12	504	13.5	499	CEMENT TO SURFACE
1 3/0		24-J	96	2971	13.97	2941	CEMENTED W/200 SAX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	7½	(4½)	
LUBRICATE RIG			½
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 Repair Rig	1½	8	3½
FISHING			

COMPLETION TOUR: A. PERFORATING | B. TUBING TRIPS | C. SWABBING | D. TESTING | E. ADDITIONAL

	MORN	DAY	EVE
TOTALS	9	8	7

TIME SUMMARY (OFFICE USE ONLY)

	MORN	DAY	EVE
DAY WORK			
HRS. W/DP		23	8
HRS. WO/DP	8	1½	
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.—SEC. | W.L.—C.C. | FL.TR. CK. | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER T. Hutton

FOOTAGE: FROM | TO | DR.—D RM.—R CORE—C | CORE NO. | 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 SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	3:30	3½	LAY DOWN 4½ CASING TP JOINTS (3321.40) 6TH & 4TH
3:45	8:00	4¼	WAIT ON ORDERS CLEAN UP RIG
			F. Krasner Ltd. Calgary and Associates Ltd. Regina
			Wanted on Schlumberger Equipment from
			Swan Creek - Needed in Yellowknife.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
#4	STANDS D.P.	2215.79 FT.
2	SINGLES D.P.	185.11 FT.
21	D.C. I.D. O.D.	596.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	3.10 FT.
1	SUBS O.D.	1.51 FT.
	BIT OR C.B.	FT.
	FISH	6.08 FT.
	KELLY DOWN	27.13 FT.
	TOTAL	2963 FT.
WT. OF STRING	60,000	LBS.

BIT RECORD: BIT NO. | SIZE | MFG. | TYPE | NOZZLE NO. | NOZZLE SIZE | SER. NO. | DEPTH OUT | DEPTH IN | TOTAL FTG. | TOTAL HR. RUN | COND. OF BIT | REAMER NO. | REAMER TYPE

MUD RECORD: TIME | WEIGHT | VISC.—SEC | W.L.—C.C. | FL.TR. CK | PH | SD. CONT. % | PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER

FOOTAGE: FROM | TO | DR.—D RM.—R CORE—C | CORE NO. | 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 SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	12:30	4½	WAIT ON ORDERS (Schlumberger Mobile Unit)
12:30	3:00	2½	RUN IN HOLE W/ ROLLER AND SHAFFER JARS
			ROLL CASING OFF RIDE GASKET OFF 24 JOINTS RUBBER
			RIDE FOR PULLING ON STRING
3:00	4:00	1	PICK UP 3 SINGLES TRY AND TOUCH BOTTOM
			K.B. Hutton Wilson Casing Collar to check bottom of
			hole tie in tool and Record Footage Run Gamma Ray -
			at 2940'

FOOTAGE: FROM | TO | DR.—D RM.—R CORE—C | CORE NO. | 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 SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			THAW FROZEN KELLY PUT NO-1 PUMP TOGEATHER
			BREAK CIRC TOUCH BOTTOM @ 2963 LOSEING
			MUD TO FORMATION; BUILD UP VOLUME TO
7:30	7:45	3¼	CLEAN OUT HOLE
7:45			BLOW KELLY BREAK HOSE OFF TRIP OUT PUT
			RUBBER PIPE ON EVERY STAND LAY DOWN 24 JTS.
	12:00	4¼	PICK UP 24 JTS. OF TUBBED PIPE

DAILY DRILLING REPORT

REPORT NO. 37 DATE DEC. 25/65

OPERATOR: ATLANTIC REF. CO.

LEASE: ATLANTIC COL. CAR. HAMILTON LAKE

WELL NO.: A-61

FIELD OR DIST.:

COUNTY: WEST

STATE: CAN.

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO.: 1E

DRILL PIPE STRING: NO. / SIZE: /

TOOL JOINT O.D.: TYPE THD.:

SIGNATURE OF OPERATOR'S REPRESENTATIVE: H. K. Hallett

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. R. Barnes

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	F-380	14
2.	"	"	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15.57	479	CEMENT TO SURFACE
9 5/8		24-8	96	2771	13.97	2748	CEMENTED W/200 SAX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	4½		
LUBRICATE RIG	¼		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		1	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3	5	7
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	6	11

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP	16	4½	4
HRS. WO/DP	1½	1½	4
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.:

NO. OF LINES: SIZE:

FEET SLIPPED: 1

FEET CUT OFF: 1

PRESENT LENGTH:

TON MI. OR TRIPS SINCE LAST CUT:

CUMULATIVE TON MI. OR TRIPS:

NO. OF DAYS FROM SPUD: 2

CUMULATIVE ROTATING HRS.:

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
17	STANDS D.P.	2220 FT.
	SINGLES D.P.	FT.
21	D.C. 7 I.D. 6¼ O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	0 FT.
	TOTAL	2250.82 FT.

WT. OF STRING 58,000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: L. Wilson

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
2763	2763	0					150	5½	61			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.00	1	TAKE OFF DRLG. HEAD - TRIP OUT
1.00	2.00	1	RUN IN HOLE W/ TOUCH LIGHT POST W/ IMPRESSION BLOCK #1
2.00	3.00	1	TRIP OUT
3.00	4.00	1	SERV. RIG SLIP 23' DRLG. LINE WAIT ON ORDERS
4.00	6.00	1	RUN IN HOLE W/ 7⅞ MILL - PUT ON DRLG. HEAD #2
6.00	8.00	2	MILL COLLAPSED CASING AT 2232

Impression Block indicates casing split into collars. Split overlaps by ½ inch. Ran 7⅞ Rimmer Mill to dress rounded top of casing.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
17	STANDS D.P.	2220 FT.
	SINGLES D.P.	FT.
21	D.C. 7 I.D. 6¼ O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
2	SUBS O.D.	6.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	2253.84 FT.

WT. OF STRING 64,000 LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. Parker

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
2463	2763	0										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.45	¾	MILL COLLAPSED CASG (1' OF TOP OF COLLAPSE ONLY)
8.45	10.15	1½	TRIP OUT
10.30	1.00	1½	TRIP IN HOLE W/ ROLLER
1.00	1.30	½	ROLL THRU COLLAPSED CASG AFTER MILLING TO 2960'
1.30	3.00	1½	TRIP OUT
3.00	4.00	1	TEAR OUT BOP

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COMP'D—C
2963	2963	0										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00			FINISH TEARING OUT BOP TAKE OF AIR DRLG HEAD
	9.00	1	LAY DOWN BOP
9.00	10.00	1	PICK UP LANDING JOINT SPEAR & LAY DOWN #1
10.00	10.30	½	RIG UP TO LAY DOWN CASING
10.30	12.30	1½	LAY DOWN CASING

Spear is Homco Casing Spear dressed for 8⅝-24# Csg. Set Spear in Landing Joint and pulled casing free of casing hanger w/ 50,000# (csg set in slips w/30,000#). Casing string weighed 46,000 when freed of slips.

DAILY DRILLING REPORT — REPORT NO. 36 — DATE DEC. 24/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF. CO.	ATLANTIC COL. CAR STRATTAS LAKE	1-21		NWT	ALTA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	12				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
H. K. Walters	T. I. [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-380	11
2.	11	11	11
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15.57	497	CEMENT TO SURFACE
7 5/8		24-J	96	2971	13.97	2984	CEMENTED W/200 SX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 3/4	2	3 1/2
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		1	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	6	5	4 1/2
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			
HRS. W/DP	7 3/4	7	8
HRS. WO/DP	3/4	1	
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
17	STANDS D.P.	2220 FT.
	SINGLES D.P.	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	12.76 FT.
	BIT OR C.B.	3.02 FT.
		FT.
	KELLY DOWN	32 FT.
	TOTAL	2253 FT.
WT. OF STRING		50 000 LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			
HI-VIS	3 BOXES		
	6	SAWDUST	

DRILLER N. Wilson

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF RUN SGL—S PAR'EL—P COMP'D—C
2963	2963	0					450			5 1/2	68	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	SERVICE RIG
12.15	12.45	1/2	WAIT ON ORDERS
12.45	2.30	1 3/4	TRIP IN HOLE TO 2233 W/ROLLER*
2.30	3.30	1	TRIP OUT KELLY P.U. DRL. HEAD
3.30	4.00	4 1/2	RILLING CASING WITH ROLLER LOCKING ROD
			ROLLER FROM 2233 TO 2242
* Wilson Casing Roller Trained for S&T-24-12-65			

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
17	STANDS D.P.	2220 FT.
	SINGLES D.P.	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS Reed O.D.	30.2 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42 FT.
	TOTAL	2253.84 FT.
WT. OF STRING		58 000 LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER J. Parker

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF RUN SGL—S PAR'EL—P COMP'D—C
2963	2963	0										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9.00	12.30	4 1/2	RUNNING 5 1/2 CASG W/7 7/8 CASG ROLLER TO 2251
12.30	1.00	1/2	BLOW KELLY TAKE OFF DRLG HEAD
1.00	2.30	1 1/2	TRIP OUT W/ROLLER TO CHECK CONDITION OF ROLLER
2.30	3.30	1	SLIP & CUT DRLG LINE
3.30	4.00	1/2	RUN IN W/ ROLLER

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
17	STANDS D.P.	2220 FT.
	SINGLES D.P.	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42 FT.
	TOTAL	2253.82 FT.
WT. OF STRING		59 000 LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF RUN SGL—S PAR'EL—P COMP'D—C
2963	2963	0										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.45	3/4	FINISH RUNNING IN HOLE
4.45	5.15	1/2	PICK UP KELLY BLOW W/ STEAM P.U. ON DRL. HEAD
5.15	6.30	1 1/4	REAM COLLAPSED CASG FROM 2233.84 TO 2253.84
6.30	7.30	1	BLOW KELLY RUN IN HOLE CLEAN
7.30	9.00	1 1/2	PULL OUT 7 STDS. TAKE OFF DRL. HEAD & TRIP OUT
9.00	10.15	1 1/4	RUN IN HOLE W/ 17 7/8 BIT
10.15	12.00	1 3/4	PICK UP WORK LIGHT THAT AT 2232.64 — COULD
		A.1	NOT GET INTO CASING W/ BIT.

DAILY DRILLING REPORT — REPORT NO. 35 — DATE Dec 23/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Ref. Co.	Atlantic Col. Car Hunton Lake	L-61		Nat	Can

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO. 1F

DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
	/		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: H. F. Hughes

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. L. A.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K-3P3	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-H	17	504	15'	479	Cement to Surface
1 1/2		24-1	96	2971	13'	2984	Cemented w/20 sx

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3 3/4	1 1/2	
LUBRICATE RIG	1/4		
DEVIATION SURVEY			
TEST B.O.P.	1/4		
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3 1/4	1 1/2	8
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

HRS. W/DP

HRS. WO/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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
24	STANDS D.P.	2265.33 FT.
2	SINGLES D.P.	63.11 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	2.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	32.00 FT.
	TOTAL	2963 FT.
WT. OF STRING	54000 LBS.	

BIT RECORD		
BIT NO.	17	18
SIZE	7 7/8	7 7/8
MFG.	REED	REED
TYPE	YSI	YSI
NOZZLE NO.	TAKEN	
NOZZLE SIZE	OUT	
SER. NO.	423422	424325
DEPTH OUT	2963	
DEPTH IN	2911	2963
TOTAL FTG.	14	
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER	V. Hudson			

FOOTAGE FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2963							275	5 1/2	68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	Service Rig Check Tops
12.15	1.00	3/4	Circ Mark Tight Spot
1.00	1.30	1/2	Trip out of Hole
1.30	3.00	1 1/2	Stuck in Hole Work Pipe at 2250 ft.
3.00	11.00	1	Worked Pipe Loose Finish Trip out
11.00	11.45	3/4	Slip 23' Drlg Line Check Pipe Rams
11.45	7.00	2 1/4	Trip in Hole
7.00	7.00	1	Pat on Air Drill Head — Ream Tight Spot @ 2250

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
24	STANDS D.P.	2265.33 FT.
2	SINGLES D.P.	63.11 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	2.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	32.00 FT.
	TOTAL	2963 FT.
WT. OF STRING	54000 LBS.	

BIT RECORD		
BIT NO.		18
SIZE		7 7/8
MFG.		REED
TYPE		YSI
NOZZLE NO.		Todit
NOZZLE SIZE		O.K.
SER. NO.		424325
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER	Alex Parker			

FOOTAGE FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2963							275	5 1/2		5 1/2	68	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.45	1 3/4	Ream Tight Spot @ 2232.84 Loosing Circ
9.45	10.15	1/2	Take off Dog Head Blow Kelly
10.15	11.45	1 1/2	Trip Out @ 2232.84
11.45			Take Bolts out of Rod
	4.00	4 1/4	Wait on Orders — W.O. Plane Arrival w/ Fisherman Tools to Arrive Radio Communications Nil Report

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
24	STANDS D.P.	2265.33 FT.
2	SINGLES D.P.	63.11 FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	2.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	32.00 FT.
	TOTAL	2963 FT.
WT. OF STRING	51000 LBS.	

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	12.00	1	Wait on Orders
			Gateway Cessna 310 Arrived @ 13:10 w/ Fisherman Lou Yet, Casing Roller, Tapered Mill, & Impression Block.

DAILY DRILLING REPORT 34 REPORT NO. 34 DATE DEC. 22/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING CO.	ATLANTIC CAL. CAR. MANITOU LAKE	1-61		N.W.T.	CAN.

CONTRACTOR	RIG NO.
S & T DRILLING CO. LTD.	12

DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.
	4	TYPE THD.

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT.	K-380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11 3/4		42# H	17	504	15.57	499	CEMENT TO SURFACE
	7 5/8		24-J	96	2971	13.97	2984	CEMENTED W/200 SAX

SIGNATURE OF OPERATOR'S REPRESENTATIVE: H. K. Hallam

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	2	10	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	½		
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	1½	6½	
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			
HRS. W/DP	8	8	8
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

DAY TOUR (MORNING TOUR)

DRILLING ASSEMBLY AT END OF TOUR

NO.			
25	STANDS D.P.	2330.77	FT.
1	SINGLES D.P.	31.56	FT.
21	D.C. 2 1/4 I.D. 6 1/4 O.D.	591.32	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
9	SUBS O.D.	6.61	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	22	FT.
	TOTAL	2971	FT.
WT. OF STRING		61000	LBS.

BIT RECORD

BIT NO.	16		
SIZE	7 7/8		
MFG.	REED		
TYPE	YSJ		
NOZZLE NO.	3 12/32		
NOZZLE SIZE	OUT		
SER. NO.	123562		
DEPTH OUT			
DEPTH IN	2948		
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER H. HOLDEN

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948	2947	1			50	15	1100	5½	58			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	SERVICE RIG
12.15	2.15	2	DRLG. OUT CEMENT, DRILL ONE FT. OF HOLE
2.15	3.00	¾	HOOK UP AIR DRLG.
3.00	4.00	1	UNLOADING HOLE PRESSURE 1650 PSI
4.00	9.00	4	CHANGE DARBER GATES & DRY OUT HOLE W/AIR

177 FT. CEMENT ABOVE SHOE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
24	STANDS D.P.	2265.73	FT.
2	SINGLES D.P.	63.11	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	6.61	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	32.00	FT.
	TOTAL	2963	FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	17		
SIZE	7 7/8		
MFG.	REED		
TYPE	YSJ		
NOZZLE NO.	THRU		
NOZZLE SIZE	OUT		
SER. NO.	123562		
DEPTH OUT	2963		
DEPTH IN	2948		
TOTAL FTG.	2963	15	
TOTAL HR. RUN	1¼		
COND. OF BIT	3 4		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SAWDUST	5 BAGS		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948	2963	15		DRLG W AIR	60	12	700	AIR	PRESSURE			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	1.15	5¼	DRY OUT HOLE W/ AIR
1.15			DRLG W/ AIR WORK PIPE CIRC 15 MIN DRLG
	3.15	3¼	TO 2963 STUCK ON BOTTOM WHILE DRLG W/AIR
3.15	400	1¾	STUCK IN HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
24	STANDS D.P.	2265.73	FT.
2	SINGLES D.P.	63.11	FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	591.32	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	6.61	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.00	FT.
	TOTAL	2963	FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	17		
SIZE	7 7/8		
MFG.	REED		
TYPE	YSJ		
NOZZLE NO.	THRU		
NOZZLE SIZE	OUT		
SER. NO.	123562		
DEPTH OUT			
DEPTH IN	2948		
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2763												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	10.00	6	STUCK IN HOLE LOOSENING CIRC
10.00	12.00	2	WORKED PIPE LOOSE CIRC & WORK TIGHT SPOT

DRILLING—COMPLETION—WORKOVER LOG

UNIT OR LEASE Atlantic Coll Carbon Manitou Lake P.C.P. WELL NUMBER L-61 DATE 12/12/65

FIELD Glacier Block DISTRICT N.W.T.

COUNTY OR PARISH PROVINCE OR STATE N.W.T

CONTRACTOR S & T Drilling Co. Ltd. Rig #1E

I. 2948-2949 (1') Found Top Cement at 2949'. Finished drilling out cement and drilled out shoe. Drilled 10' new hole to 2:15 AM. Rigged up Air Drilling Equipment and started unloading hole w/1250 psi Air. From 3:00-4:00 AM. Started drying hole at 4:00 AM.

II. 2949-~~2963~~ to 2963 (14') Continued to dry hole with air to 12:15. Drilled Intervals of 1, 2, 3½, 5' and worked pipe 90' after each interval - hole was good. After drilling last 2½' at 15:15, Drill Pipe Torqued up and air shut off immediately. Pulled Pipe to Casing Shoe before ~~before~~ Reconnected air discharge lines, water began to rise in cellar from open Casing Vent Valve. With Pump Pressure at 450 psi Rig broke circulation Spearheaded with 8 bbls. 8.8 #/gal mud. Changing gradually to clear water with free circulating. PP. 300 psi. Water in cellar flowed back into casing thru casing valve. Worked pipe with 110,000 (string weighed 66,000#) & Still circulating but could not pull up or rotate.

III. 2963-2963 (0') Started losing returns at 7:20. Mixed 600# sawdust and regained full returns. Pulled pipe free at 7:15 w/150,000#. Pulled past tight spot w/bit 6 to 7 ft. off bottom and pipe seemed to come free. Lowered bit and tight spot at 7 to 6' off bottom would take 10M# weight and slip past. Would pull 7-8M coming up. Continued to work thru spot until pipe was free and started out of hole at midnight to inspect bit.

TIME DISTRIBUTION—HOURS	WORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL	2	2	
DIRECTIONAL DRILLING			
REAMING			
TRIPS TO CHANGE BIT			
DRILLING WITH PARTIAL RETURNS			
COMBATING LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING			
FISHING	~~4~~	3/4	8
DEVIATION SURVEY			
LUBRICATE RIG	1/4		
CUT OFF DRILLING LINE			
REPAIR RIG			
TEST CASING OR B.O.P			
CORING: SIDE WALL			
CORING: CONVENTIONAL			
CORING: DIAMOND			
CORING: WIRE LINE			
DRILL STEM TEST OPEN HOLE			
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING			
WAITING ON CEMENT			
LOGGING CASED HOLE			
PERFORATING			
WIRE LINE FORMATION TEST CASED HOLE			
DRILL STEM TEST CASED HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER	3¾	5¼	
TOTALS	8	8	8

TIME SUMMARY			
DAY WORK			
HOURS W/DP	8	8	8
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK	8	8	8

JOINTS	FEET		WEIGHT	GRADE	THREAD	CLASS

SIZE O.D. CASING	
SHOE	
SET JOINT	
COLLAR	
JOINTS PIPE	
TOTAL	
RKB TO	
DEPTH SET	

PRINTED IN CAN.

38-228 5/63

SIGNED W. K. Walters

DAILY DRILLING REPORT

REPORT NO. 33 DATE DEC. 21/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING CO.	ATLANTIC COL. CAR. MANTOO LAKE	I-21		NWT	CAN

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42-A	17	507	15.57	499	CEMENTED TO SURFACE
8 5/8		24-J	96	2971	13.97	2944	Cemented w/ 200 SX

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			2½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		4	4
LUBRICATE RIG			
DEVIATION SURVEY			½
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			7
WAITING ON CEMENT	4½		
DRILL STEM TEST			
OTHER HEADS	3½	8	1
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			1
HRS. W/DP		2	8
HRS. WO/DP	8	6	
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
		FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	4:30	4½	W.O.C.
4:30	9:00	3½	PUT OFF CASING HEAD UP
			K.B.M—G.L. 12.50'
			K.B.M—Intermediate hanger 13.97
			K.B.M—Csg bowl. 15.57
			G.L. (ESTIMATED) 420.00'—

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
23	STANDS D.P.	2140.32 FT.
1	SINGLES D.P.	31.50 FT.
21	D.C. 1 1/4 2 3/4 I.D. O.D.	541.32 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
2	SUBS O.D.	6.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	2 FT.
	TOTAL	2769.97 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	16
SIZE	7 7/8
MFG.	REED
TYPE	Y51
NOZZLE NO.	FOUR
NOZZLE SIZE	OUT
SER. NO.	823562
DEPTH OUT	
DEPTH IN	2948
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00			HEAD UP W.O.C. PRESSURE UP BLIND RAMS
			TO 1000 PSI HELD OK FOR 15 MIN
	4:00	8	RUN IN DC PICK UP & DC LAY DOWN 5 STDS

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2234.75 FT.
	SINGLES D.P.	FT.
21	D.C. I.D. O.D.	FT.
21	D.C. 1 2 3/4 6 1/4 I.D. O.D.	591.32 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
2	SUBS O.D.	6.61 FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42 FT.
	TOTAL	2832 FT.
WT. OF STRING		62,000 LBS.

BIT RECORD

BIT NO.	16
SIZE	7 7/8
MFG.	REED
TYPE	Y51
NOZZLE NO.	TAKEN
NOZZLE SIZE	OUT
SER. NO.	823562
DEPTH OUT	
DEPTH IN	2948
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1:00
WEIGHT	10
VISC.—SEC	40
W.L.—C.C.	7
FL.TR. CK	5
PH	11
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948										5½		S
										X		
						30				14	19	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	8:00	4	RUN IN HOLE
8:00	7:00	1	THAW KELLY PUT ON AIR DRLG. HEAD
7:00	7:15	¼	PRESSURE UP PIPE RAMS TO 1200 PSI HELD FOR 15 MIN.
7:15	7:30	¼	PRESSURE UP HYDRIL TO 1200 PSI HELD FOR 15 MIN.
7:30	12:00	2½	DRLG. OUT CEMENT

DAILY DRILLING REPORT

REPORT NO. 32 DATE 12/20/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining Company	Atlantic Coal Co's Monitou Lake	L-61		N.W.T.	PA PRIVATE

CONTRACTOR: S&T DRILLING CO. LTD. RIG NO. 1-E

DRILL PIPE STRING NO. / SIZE / TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. L. Knight

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nat.	K 380	14
2.	"	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		H2-A	17	504		499
8 5/8		J-55	91	2971		2948

REMARKS: Cem TIGHT HOLE cc; Cemented w/ 450 sx

TIME DISTRIBUTION—HOURS

	MORN	EVE DAY	8 to 8 EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING		2	
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	9	2 3/4	8
WAITING ON CEMENT		3 1/4	
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	16	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HR. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD

TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	9:00	1	Run 1" Casing
			Circulated to run Csg @ 450' to plug out cement contaminated

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD

TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK. / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Sawdust	4	Boxes	

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	12:00		Run 8 5/8 Casg
12:00			Rig Up To Circ & Circ
	4:00	4	Lost Mud Ret's Up Volume
			Lost 150 bbls fluid while circulating on bottom

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO. / SIZE / MFG. / TYPE / NOZZLE NO. / NOZZLE SIZE / SER. NO. / DEPTH OUT / DEPTH IN / TOTAL FTG. / TOTAL HR. RUN / COND. OF BIT / REAMER NO. / REAMER TYPE

MUD RECORD

TIME / WEIGHT / VISC.—SEC / W.L.—C.C. / FLTR. CK / PH / SD. CONT. % / PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948				Baker Locking Model 202 Guide Shoe								
				Baker Locking Model 502 Baffle Collar								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:00	2	Mix Sawdust & Circ
6:00	9:15	2 3/4	Rig Up To Cement & Cement
9:15	12:00	3 1/4	W.O.C.

Ran cemented 96 Jts (2971.11') of 8 5/8" 24# J-55 Csg. Cemented with 200 sx Oil-well cement. Displaced plug down w/ 183 bbls fluid F.C @ 9:25 P.M 12/20/65. Csg landed on bottom @ 2948 K.B.M. Csg weight 62 M# Used slips w/ 20 M# Centralizers @ 2935' & 2890'. Threadlocked first 60' of Csg shoe & baffle collar.

DAILY DRILLING REPORT

REPORT NO. 31 DATE DEC 19

OPERATOR: ATLANTIC

LEASE: ARCO COLUMBIA CANADA

WELL NO. L-61 | FIELD OR DIST. | COUNTY | STATE TIGHT HOLE

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 1E

DRILL PIPE STRING NO. / SIZE | TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ted Mucha

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 350	14
2.		K 350	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		42 H	17	504	L	499	PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	1		
TRIPS	2		
LUBRICATE RIG	¼		
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	4	7	
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	½	1	
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. W/DP			
HRS. WO/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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. 28

STANDS D.P.	76 LEVEL	FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.	259.91	FT.
STB. BODY O.D.		FT.
STB. BODY O.D.	529	FT.
RMR. BODY O.D.	520	FT.
SUBS O.D.	463	FT.
BIT OR C.B.	1.7	FT.
		FT.
KELLY DOWN	35	FT.
TOTAL	2948	FT.

WT. OF STRING 64 000 LBS.

BIT RECORD

BIT NO.	16
SIZE	11
MFG.	Hugh.
TYPE	OWC
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	83821
DEPTH OUT	2949
DEPTH IN	2892
TOTAL FTG.	56
TOTAL HR. RUN	12½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER See Below

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2948	3½							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	¼	R.R. SERV. CHECK H.P.U.
12 15	1 15	1	CIRC. TO L.C.
1 15	1 30	¼	SURVEY
1 30	3 30	2	TRIP OUT - L.C.
3 30	4 00	½	RIG TO LOG
4 00	8 00	4	LOGGING

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO.

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.	520	FT.
STB. BODY O.D.	520	FT.
RMR. BODY O.D.	463	FT.
SUBS O.D.		FT.
BIT OR C.B.	67	FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Alex Pambrun

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	3 00	7	Logging w/ Schlumberger
3 00	3 30	½	Lay Down Logging Equipment + Load out Some
3 30	4 00	½	Run DC in Hole + Lay Down

Schlumberger ran I.E.S 2943-1750, 2 + 5 spacing
ran B.H. Sonic G.R. 2941-1750, 2 + 5 spacing
ran M.L.L Caliper 2943-499, 2 + 5" spacing

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO.

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.	520	FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.	67	FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
2948												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	9 30	4½	LAY DOWN DP'S
9 00	9 00	2	Rig up to Run Casing
9 00	12 00	3	Run Casing

DAILY DRILLING REPORT

REPORT NO. 30 DATE DEC 14

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC	ARCO COLUMBIAN ARCARBON	L 11		ALAT	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S&T DRILLING CO. LTD.	1E		4	

SIGNATURE OF OPERATOR'S REPRESENTATIVE: R Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Bill Wiens

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 350	14
2.		K 350	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		42F	17	504		499

REMARKS: TIGHT HOLE / PRIVATE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5 1/2	4 1/4	8
REAMING		3/4	
CONDITIONING MUD & CIRCULATING			
TRIPS	2	1 1/4	
LUBRICATE RIG	1/2	1/4	
DEVIATION SURVEY	1/2		
TEST B.O.P.	1/2		
CUT OFF DRILLING LINE		3/4	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		3/4	
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
27	STANDS D.P.	25531 FT.
1	SINGLES D.P.	3135 FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	259 81 FT.
	STB. BODY O.D.	520 FT.
	STB. BODY O.D.	520 FT.
	RMR. BODY O.D.	463 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	142 FT.
	TOTAL	32892 FT.

WT. OF STRING 60.000 LBS.

BIT RECORD		
BIT NO.	15	15
SIZE	11	11
MFG.	REED	REED
TYPE	H71A1	H71A1
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	707556	
DEPTH OUT	2992	
DEPTH IN	2978	
TOTAL FTG.	108	
TOTAL HR. RUN	18 1/2	
COND. OF BIT	6 5 1	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	100	3.00	5.00
WEIGHT	88	88	88
VISC.—SEC	40	40	42
W.L.—C.C.	12.2		
FLTR. CK.	1/32		
PH	8.0		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Rev D.S.I

FOOTAGE FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF DRILLING SGL.—S PAR'EL—P COM'D—C
2878	2892	24			55	28	650	6 1/2	68	5 5		
					55	28	650	6 1/2	68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2892	3 1/2							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12	1215	1/4	RIG SERV. CHECK H-DRILL
1215	530	5 1/4	DRILL 11" HOLE
530	545	1/4	SURVEY
545	745	2	STRAP OUT STRAPPED 7993.76
745	XED	1/4	CHECK BLIND RAMS BOARD @ H 7972.50 DIFF 76

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
27	STANDS D.P.	25543 FT.
2	SINGLES D.P.	63.01 FT.
9	D.C. 1-9" I.D. 4.8 O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. 11" BODY O.D.	5.20 FT.
	STB. 11" BODY O.D.	5.20 FT.
	RMR. 11" BODY O.D.	463 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	6.7 FT.
		FT.
	KELLY DOWN	30.00 FT.
	TOTAL	2913 FT.

WT. OF STRING 64 000 LBS.

BIT RECORD		
BIT NO.	16	
SIZE	11	
MFG.	Security Hughes	
TYPE	OWC	
NOZZLE NO.	FOOK	
NOZZLE SIZE	12 12 12	
SER. NO.	93821	
DEPTH OUT	Drlg 2913	
DEPTH IN	2892	
TOTAL FTG.	21	
TOTAL HR. RUN	4 1/4	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	12	2 [illegible]	
WEIGHT	88	88	
VISC.—SEC	43	42	
W.L.—C.C.	11.6	11.6	
FLTR. CK.	2/32	2/32	
PH	8.0	8.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER A Rayton

FOOTAGE FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF DRILLING SGL.—S PAR'EL—P COM'D—C
2892	2913	21		CHANGED REAMERS	45	28	650	6 1/2	68			
				11" Mc- ESB	45	30	650	6 1/2	68			
				SECURITY	45	30	650	6 1/2	68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9 00	9	1/4	MORE UP BIT
	9 45	3/4	PUT IN NEW REAMERS
9 45	9 30	3/4	SLIP & CUT DRLG LINE
9 30	9 45	1/4	RIG SERV.
9 45	11 00	1 1/4	RUN IN HOLE
11 00	11 45	3/4	REAM TIGHT HOLE 35' PIPE TORQUED UP REAMING
11 45			DRLG 11" HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
29	STANDS D.P.	26471 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
8	D.C. 8 I.D. 4 O.D.	259 91 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	463 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	30 FT.
	TOTAL	3441 FT.

WT. OF STRING 115 000 LBS.

BIT RECORD		
BIT NO.	16	
SIZE	11	
MFG.	Hughes	
TYPE	OWC	
NOZZLE NO.	FOOK	
NOZZLE SIZE	12 12 12	
SER. NO.	93821	
DEPTH OUT		
DEPTH IN	2892	
TOTAL FTG.	521	
TOTAL HR. RUN	12 1/4	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	4:00	6:00	11:00
WEIGHT	88	88	88
VISC.—SEC	43	41	40
W.L.—C.C.	11.6	11.6	11.
FLTR. CK	3/32	3/32	2/32
PH	8.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF DRILLING SGL.—S PAR'EL—P COM'D—C
2913	2948	35					650	6 1/2	68	5 1/2		
							650		68			
							650		68			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	1200	8	DRLG 11" HOLE

DAILY DRILLING REPORT — REPORT NO. 29 — DATE DEC 17/6[illegible]

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF	ARCO COLUMBIAN CARBON	2-41	N WILT		

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO.: 1E

DRILL PIPE STRING: NO. — SIZE — TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Saunders

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K-380	14
2.	NAT	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		42 E	17	504		499	PRIVATE
							TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	12½	5¼	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1¾	1½	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		
TEST B.O.P.	¼		
CUT OFF DRILLING LINE		½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	¾		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	9	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
96	STANDS D.P.	2451.57 FT.
1	SINGLES D.P.	31.55 FT.
	D.C. I.D. O.D.	FT.
8	D.C. 9" I.D. 8" O.D.	259.81 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	.67 FT.
		FT.
	KELLY DOWN	27 FT.
	TOTAL	2784 FT.

WT. OF STRING 60,000 LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	UH
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	531847
DEPTH OUT	2784
DEPTH IN	2701
TOTAL FTG.	83
TOTAL HR. RUN	18½
COND. OF BIT	T4 2
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1100	3000
WEIGHT	8.7	8.7
VISC.-SEC	55	53
W.L.-C.C.	15.3	
FL.TR. CK.	2/32	
PH	10.5	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600		

DRILLER: Lee Robitaille

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2769	2784	15			50	3	675	14	68	3½		
							700		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2784	3¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG SERV CHECK HYDRIL
1215	[illegible]	6¾	DRILL 11" HOLE
[illegible]	[illegible]	[illegible]	[illegible]
5[illegible]	6[illegible]	¾	[illegible]
1.00	1[illegible]	1¾	TRIP OUT
745	800	¼	CHECK BLIND RAMS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
26	STANDS D.P.	2546.61 FT.
2	SINGLES D.P.	62.19 FT.
9	D.C. 9" I.D. 8" O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	.67 FT.
		FT.
	KELLY DOWN	39.00 FT.
	TOTAL	2826 FT.

WT. OF STRING 60,000 LBS.

BIT RECORD

BIT NO.	15
SIZE	11
MFG.	SEC
TYPE	H7W
NOZZLE NO.	3 TOOTH
NOZZLE SIZE	Open
SER. NO.	707156
DEPTH OUT	Drlg 2826
DEPTH IN	2784
TOTAL FTG.	42
TOTAL HR. RUN	5¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	2
WEIGHT	8.7	8.8
VISC.-SEC	53	54
W.L.-C.C.	5.6	5.4
FL.TR. CK.	2/32	2/32
PH	10	10
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2784	2826	42			50	28	1,250	6½	158			
					45	20	1,250	6½	158			
					45	20	1,500	6½	158			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
900	915	¼	Rig Serv
915	945	½	Slip 29' Drlg Line
945	1015	½	Run in Hole
1015	400	5¾	Drlg 11" Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2544.31 FT.
1	SINGLES D.P.	31.35 FT.
1	D.C. 9"	
8	I.D. 8" O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	.67 FT.
		FT.
	KELLY DOWN	7 FT.
	TOTAL	2826 FT.

WT. OF STRING 60,000 LBS.

BIT RECORD

BIT NO.	15
SIZE	11
MFG.	Sec
TYPE	H7W
NOZZLE NO.	3 TOOTH
NOZZLE SIZE	Open
SER. NO.	707156
DEPTH OUT	
DEPTH IN	2784
TOTAL FTG.	84
TOTAL HR. RUN	13½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	1.00	8.00
WEIGHT	8.8	8.8	8.8
VISC.-SEC	53	47	40
W.L.-C.C.		9.8	
FL.TR. CK		1/32	
PH		8.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2826	2[illegible]				28	5[illegible]	1,50	1½	1.8	5½		
2[illegible]					25	5[illegible]	1,50		1.8			
3821	2918	42	1½									

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	Rig Serv Check Hydrill
415	12[illegible]	7¾	Drlg 11" Hole

DAILY DRILLING REPORT

REPORT NO. 28 DATE DEC 16 65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF	ARCO COLUMBIAN CARBON	L-21	N W T		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	14
2.		K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		24#	17	500		499

REMARKS: PRIVATE

TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	12	5 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 1/4	1 3/4	
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY	1/4		
TEST B.O.P.		1/4	
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	4	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 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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	2364 11 FT.
1	SINGLES D.P.	31 34 FT.
	D.C. I.D. O.D.	FT.
8	D.C. 5	
1	I.D. 9 O.D.	2598 1 FT.
	STB. BODY 11 O.D.	5 20 FT.
	STB. BODY 11 O.D.	5 20 FT.
	RMR. BODY 11 O.D.	4 63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	39 FT.
	TOTAL	2701 FT.
WT. OF STRING		60 000 LBS.

BIT RECORD

BIT NO.	13
SIZE	11
MFG.	HUGHES
TYPE	OWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	37765
DEPTH OUT	2701
DEPTH IN	2620
TOTAL FTG.	77
TOTAL HR. RUN	11 1/2
COND. OF BIT	921
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	3.00	1.00
WEIGHT	8.6	8.6	8.6
VISC.-SEC	35	34	35
W.L.-C.C.	15.8		11.2
FL.TR. CK.	1/32		1/32
PH	9.0		9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
GEL	800#		

DRILLER LEO HEINSIE

FOOTAGE

FROM	TO	DR'D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL. S PAR'EL-D COM'D-C
2672	2701				50	30	550	6 1/2	68	5 1/2		
					50	30	550					
				CHANG HEAD RUBBER NO 1 PUMP								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2701	3 3/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/2	R.C. SERV CHECK HYDRIL
1215	1630	4 1/4	DRLG 11" HOLE
1630	1645	1/2	SURVEY
1645	2400	7 1/4	TRIP OUT

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	2483.55 FT.
2	SINGLES D.P.	62.93 FT.
9	D.C. 1 - 9" 8 - 8" I.D. O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 11 O.D.	5.20 FT.
	STB. BODY 11 O.D.	5.20 FT.
	RMR. BODY 11 O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	39.00 FT.
	TOTAL	2732 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	
NOZZLE NO.	NO JET
NOZZLE SIZE	
SER. NO.	531847
DEPTH OUT	2732
DEPTH IN	2701
TOTAL FTG.	31
TOTAL HR. RUN	5 3/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	2
WEIGHT	8.6	8.6
VISC.-SEC	36	35
W.L.-C.C.	10	10.5
FL.TR. CK.	1/32	1/32
PH	10.5	10.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		
PELTEX	100#		

DRILLER O Parker

FOOTAGE

FROM	TO	DR'D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL. S PAR'EL-D COM'D-C
2701	2732	31		PUT ON 2 NEW STAB RUBBERS	50	28	550	6 1/2	68			
					50	34	550	6 1/2	68			
					45	18	550	6 1/2	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	CHECK BLIND RAMS MAKE UP BIT
815	830	1/4	RIG SERV
830	1015	1 3/4	RUN IN HOLE
1015	400	5 3/4	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
26	STANDS D.P.	3495.7 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
1	D.C. 9	
8	I.D. 8 O.D.	259.81 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	41.00 FT.
	TOTAL	2748.01 FT.
WT. OF STRING		1.0 00 LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	YH
NOZZLE NO.	LEFT
NOZZLE SIZE	OUT
SER. NO.	531847
DEPTH OUT	
DEPTH IN	2701
TOTAL FTG.	47
TOTAL HR. RUN	13 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	1.00
WEIGHT	8.7	8.7
VISC.-SEC	34	35
W.L.-C.C.		
FL.TR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4000	Sawdust	500
Caustic	50	D.O. Mud	100
Quick Flo	1 gal		

DRILLER

FOOTAGE

FROM	TO	DR'D RM. R CORE C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL. S PAR'EL-D COM'D-C
2732	2778	46			46	18	550	6 1/2	68	5 1/2		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	445	3/4	DRLG 11" HOLE
445	500	1/4	RIG SERV CHECK HYDRIL
500	1200	7	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 29 DATE DEC 17/82

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF	ARCO COLUMBIA CAABON	2-61	N W T		

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO.: 1E

DRILL PIPE STRING: NO. — SIZE — TYPE THD. — TOOL JOINT O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Donahue

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K-390	14
2.	NAT	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		24 F	17	504		499	PRIVATE
							TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4 3/4	5 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 3/4	1 1/2	
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY	1/4		
TEST B.O.P.	1/4		
CUT OFF DRILLING LINE		1/2	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3/4		
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO. — NO. OF LINES — SIZE — FEET SLIPPED — FEET CUT OFF — PRESENT LENGTH — TON MI. OR TRIPS SINCE LAST CUT — CUMULATIVE TON MI. OR TRIPS — NO. OF DAYS FROM SPUD — CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
96	STANDS D.P.	24 515.7 FT.
1	SINGLES D.P.	31.55 FT.
	D.C. I.D. O.D.	FT.
8	D.C. 9" I.D. 8" O.D.	259.81 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	.67 FT.
		FT.
	KELLY DOWN	27 FT.
	TOTAL	2790 FT.
WT. OF STRING		60,000 LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	HH
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	531547
DEPTH OUT	2794
DEPTH IN	2701
TOTAL FTG.	83
TOTAL HR. RUN	18½
COND. OF BIT	T4 2
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	MOR	3:00
WEIGHT	8.7	8.7
VISC.-SEC	55	53
W.L.-C.C.	15.3	
FLTR. CK.	2/32	
PH	10.5	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400		

DRILLER: Sam Richards

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2718	2784				50	3-6	1400	6½	68	6½	68	
							1400		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2784	3 3/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	H.C. SERV CHECK HYDRIL
1215		6¾	DRILL 11" HOLE
[illegible]		¼	[illegible]
7:15	6:00	¾	[illegible] OUT FOR AIR ALL HEADS OF
1:00	1:45	1 3/4	TRIP OUT
7:45	8:00	¼	CHECK BLIND RAMS

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
26	STANDS D.P.	2546.61 FT.
2	SINGLES D.P.	62.14 FT.
9	D.C. 1-9" 8=8" I.D. O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	39.00 FT.
	TOTAL	2826 FT.
WT. OF STRING		60 000 LBS.

BIT RECORD

BIT NO.	15
SIZE	11
MFG.	SEC
TYPE	H7W
NOZZLE NO.	7 OOK
NOZZLE SIZE	Out
SER. NO.	707156
DEPTH OUT	Drlg 2826
DEPTH IN	2784
TOTAL FTG.	42
TOTAL HR. RUN	5¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	2
WEIGHT	8.7	8.8
VISC.-SEC	53	54
W.L.-C.C.	5.6	5.4
FLTR. CK.	2/32	2/32
PH	10	10
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2784	2826	42			50	28	625	6½	68			
					45	20	625	6½	68			
					45	20	650	6½	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	Rig Serv
8:15	8:45	½	Slip 28' Drlg Line
8:45	10:15	1½	Run in Hole
10:15	4:00	5¾	Drlg 11" Hole

BAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
27	STANDS D.P.	2554.31 FT.
1	SINGLES D.P.	31.35 FT.
1 9	D.C. 1-9" 8=8" I.D. O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	17 FT.
		FT.
	KELLY DOWN	7 FT.
	TOTAL	2864 FT.
WT. OF STRING		60 000 LBS.

BIT RECORD

BIT NO.	15
SIZE	11
MFG.	SEC
TYPE	H7W
NOZZLE NO.	7 OOK
NOZZLE SIZE	Out
SER. NO.	707156
DEPTH OUT	
DEPTH IN	2784
TOTAL FTG.	84
TOTAL HR. RUN	13½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	1.00	8.00
WEIGHT	8.8	8.8	8.8
VISC.-SEC	53	47	40
W.L.-C.C.		9.8	
FLTR. CK		1/32	
PH		8.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER:

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2826	[illegible]				28	50	1500	6½	68	6½		
2848					28	[illegible]	1500		68			
7421	2848	42	T									

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Serv Check Hydrill
4:15	[illegible]	7¾	Drlg 11" Hole

S.T, 2892-3½ 2892
Тюмень - посёлок 8-3, 42, 12-2, 3/32, 8-0
#15, Н7Ш, 108-18°4, 6-57

S & T DRILLING CO. LTD.

DAILY DRILLING REPORT

REPORT NO. 28 DATE DEC 16 65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF	ARCO COLUMBIAN CARBON.	C-61	N W T		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S & T DRILLING CO. LTD.	1 E			

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
L. Davidson	

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	A 380	14
2.		A 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		24'	17	504		479

REMARKS: PRIVATE — TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6 1/2	5 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1 1/2	1 3/4	
LUBRICATE RIG	1/2	1/4	1/2
DEVIATION SURVEY	1/2		
TEST B.O.P.		1/4	
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. W/DP
HRS. WO/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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	2361.11 FT.
1	SINGLES D.P.	31.34 FT.
	D.C. I.D. O.D.	FT.
8	D.C. 5	
1	I.D. 9 O.D.	259.81 FT.
	STB. BODY 11 O.D.	5.20 FT.
	STB. BODY 11 O.D.	5.20 FT.
	RMR. BODY 11 O.D.	11.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	39 FT.
	TOTAL	2701 FT.
WT. OF STRING		60 000 LBS.

BIT RECORD

BIT NO.	13
SIZE	11
MFG.	HUGHES
TYPE	OWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	37765
DEPTH OUT	2701
DEPTH IN	2624
TOTAL FTG.	77
TOTAL HR. RUN	11 1/2
COND. OF BIT	921
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	3.00	1.00
WEIGHT	8.6	8.6	8.6
VISC.-SEC	35	34	35
W.L.-C.C.	15.8		11.2
FL.TR. CK.	1/32		1/32
PH	9.0		9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
GEL	800#		

DRILLER LEO BELISLE

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2172	2701				50	30	550	6 1/2	68	5 1/2		
					50	20	550					
				LAYED DOWN JUNK NO 1 PUMP								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2701	3 3/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	RIG SERV CHECK HYDRIL
1215	635	19 1/4	DRLG 11" HOLE
635	645	1/4	SURVEY
645	800	1 1/4	TRIP OUT

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
25	STANDS D.P.	2483.55 FT.
2	SINGLES D.P.	62.93 FT.
9	D.C. 1-9" 8-8" I.D. O.D.	259.81 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY 11 O.D.	5.20 FT.
	STB. BODY 11 O.D.	5.20 FT.
	RMR. BODY 11 O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	39.00 FT.
	TOTAL	2737 FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	
NOZZLE NO.	NO JET
NOZZLE SIZE	
SER. NO.	531847
DEPTH OUT	2737
DEPTH IN	2701
TOTAL FTG.	31
TOTAL HR. RUN	5 3/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	2
WEIGHT	86	86
VISC.-SEC	36	35
W.L.-C.C.	10	10.5
FL.TR. CK.	1/32	1/32
PH	10.5	10.5
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		
PELTEX	100#		

DRILLER A Paulson

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2701	2732	31		PUT ON 2 NEW STAB RUBBERS	50	28	550	6 1/2	68			
					50	34	550	6 1/2	68			
					45	18	550	6 1/2	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	805	1/4	CHECK BLIND RAMS MAKE UP BIT
815	830	1/4	RIG SERV
830	1015	1 3/4	RUN IN HOLE
1015	400	5 3/4	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
26	STANDS D.P.	2451.57 FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
1	D.C. 9	
8	I.D. 8 O.D.	259.81 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	4.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	48.00 FT.
	TOTAL	2768.61 FT.
WT. OF STRING		100 LBS.

BIT RECORD

BIT NO.	14
SIZE	11
MFG.	REED
TYPE	YH
NOZZLE NO.	LEFT
NOZZLE SIZE	OUT
SER. NO.	531847
DEPTH OUT	
DEPTH IN	2701
TOTAL FTG.	67
TOTAL HR. RUN	13 1/2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	1.00
WEIGHT	87	87
VISC.-SEC	34	34
W.L.-C.C.		
FL.TR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4000	Sawdust	500
Caustic	50	Pol. Flak	100
Quick Vis	1 sk		

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2732	2768	36			45	18	550	6 1/2	68	5 1/2		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	445	3/4	DRLG 11" HOLE
445	500	1/4	RIG SERV CHECK HYDRIL
500	1200	7	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 27 DATE DEC 15 1965

OPERATOR: ATLANTIC REF

LEASE: ARCO CHAMPLIN CARBON

WELL NO. L-61 | FIELD OR DIST. N. W. T | COUNTY | STATE

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 1 E

DRILL PIPE STRING: NO. 1 | SIZE 4 | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	M 3	14
2.		A 3	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		24 H	17	504		477

REMARKS: PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6 1/2	4 1/2	4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2 1/4	
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY			
TEST B.O.P.		1/4	
CUT OFF DRILLING LINE		3/4	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	1/4	8	
FISHING			C
COMPLETION WORK: 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 — 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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2261.76 FT.
2	SINGLES D.P.	62.88 FT.
	D.C. I.D. O.D.	FT.
5	D.C. 9" I.D. 6 3/4" O.D.	259.81 FT.
	STB. BODY O.D.	5.20 FT.
	STB. BODY O.D.	5.20 FT.
	RMR. BODY O.D.	11.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	17 FT.
	TOTAL	21.16 FT.

WT. OF STRING 60 000 LBS.

BIT RECORD

BIT NO.	12
SIZE	11
MFG.	Hughes
TYPE	OWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	37762
DEPTH OUT	
DEPTH IN	2535
TOTAL FTG.	81
TOTAL HR. RUN	14
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	7.00	4.00	6.00
WEIGHT	8.6	8.6	8.6
VISC.-SEC	35	34	33
W.L.-C.C.	11.6	12.0	17.5
FL.TR. CK.	1/32	1/32	1/32
PH	8.0	8.0	8.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
1/2 STREAM		WATER	

DRILLER Leo Bellisle

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2577	2611	39			55	30	575	6 1/2	68	5 3/4		
					55	30	575		68			
							575		68			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	1/4	R/C SERV CHECK H-DR. 11
12:15	1:15	1	DRLG 11 HOLE
7:15	7:30	1/4	CHANG PUMP CHANG HEAD RUBBER NO 1 PUMP
7:30	8:00	1/2	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2261.76 FT.
2	SINGLES D.P.	62.88 FT.
9	D.C. 9" 6-8" I.D. O.D.	259.81 FT.
	STB. BODY 10 3/4 O.D.	5.20 FT.
	STB. BODY 10 1/4 O.D.	5.20 FT.
	RMR. BODY O.D.	4.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	34.00 FT.
	TOTAL	2632 FT.

WT. OF STRING 60 000 LBS.

BIT RECORD

BIT NO.	12	13
SIZE	11	11
MFG.	Hughes	Hughes
TYPE		CON
NOZZLE NO.	NONE	
NOZZLE SIZE	CON	
SER. NO.	37762	37765
DEPTH OUT	2624	2632
DEPTH IN	2535	2624
TOTAL FTG.	89	8
TOTAL HR. RUN	16 1/4	2
COND. OF BIT	6431	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8	10	
WEIGHT	8.6	8.6	
VISC.-SEC	35	33	
W.L.-C.C.	17.2		
FL.TR. CK.	1/32		
PH	8		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GELL	1000		
WATER			

DRILLER A Parsher

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2616	2632	16			45	30	550	6 3/4	68			
					45	10	550	6 3/4	68			

DEVIATION RECORD: DEPTH 2624 | DEV. 3 3/4 | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	10:15	2 1/4	DRLG 11" HOLE
10:15	10:45	1/2	SURVEY RIG SERV TAKE OFF DRLG HEAD
10:45	11:45	1	TRIP OUT FOR BIT
11:45	12:00	1/4	CHECK PIPE RAMS MAKE UP BIT
12:00	12:30	1/2	RUN D.C IN HOLE
12:30	1:15	3/4	SLIP 23' DRILLING LINE
1:15	2:00	3/4	RUN IN HOLE
2:00	4:00	2	DRLG 11"

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2261.76 FT.
2	SINGLES D.P.	62.88 FT.
	D.C. I.D. O.D.	FT.
9	D.C. 9" 6-8" I.D. O.D.	259.81 FT.
	STB. BODY 10 3/4 O.D.	5.20 FT.
	STB. BODY 10 1/4 O.D.	5.20 FT.
	RMR. BODY O.D.	4.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	34.00 FT.
	TOTAL	2632 FT.

WT. OF STRING 60 000 LBS.

BIT RECORD

BIT NO.	12	13
SIZE	11	11
MFG.	Hughes	Hughes
TYPE		CON
NOZZLE NO.	NONE	
NOZZLE SIZE	CON	
SER. NO.	37762	37765
DEPTH OUT	2624	2632
DEPTH IN	2535	2624
TOTAL FTG.	89	8
TOTAL HR. RUN	16 1/4	2
COND. OF BIT	6431	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8	10	
WEIGHT	8.6	8.6	
VISC.-SEC	35	33	
W.L.-C.C.	17.2		
FL.TR. CK.	1/32		
PH	8		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GELL	1000		
WATER			

DRILLER A Parsher

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2632	2672	4			48	10	550	6 3/4	68	5 3/4		
					48	28	550	6 3/4	68			
					55	20	550		68			

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
24	STANDS D.P.	2261.76 FT.
2	SINGLES D.P.	62.88 FT.
	D.C. I.D. O.D.	FT.
8 1	D.C. 8 1/4" I.D. 6 3/4" O.D.	259.81 FT.
	STB. BODY 10 1/4 O.D.	5.20 FT.
	STB. BODY 10 1/4 O.D.	5.20 FT.
	RMR. BODY O.D.	11.60 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.

WT. OF STRING 60 000 LBS.

BIT RECORD

BIT NO.	13	
SIZE	11	
MFG.	Hughes	
TYPE		
NOZZLE NO.	1 None	
NOZZLE SIZE	CON	
SER. NO.	37765	
DEPTH OUT		
DEPTH IN	2624	
TOTAL FTG.	44	
TOTAL HR. RUN	10	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4	8.00	10.00
WEIGHT	8.6	8.6	8.6
VISC.-SEC	34	35	35
W.L.-C.C.	8.4	11.2	
FL.TR. CK	1/32	1/32	
PH		8.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic Soda		50#	

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8	DRLG 11" HOLE

DAILY DRILLING REPORT — REPORT NO. 26 — DATE DEC 14/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REF	ARCO COLUMBIAN CARBON	1-11	NINNIAN		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S & T DRILLING CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-280	14
2.	"	"	"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		AWF	17	514		499

REMARKS: PRIVATE TIGHT HOLE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	4½	1.4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		1¼	½
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.		¼	
CUT OFF DRILLING LINE			
REPAIR RIG		1¼	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		½	1
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.	7 1680	FT.
	SINGLES D.P.		FT.
9	D.C. I.D.	O.D. 25991	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY 9	O.D. 520	FT.
	STB. BODY 9	O.D. 520	FT.
	RMR. BODY 7¾	O.D. 413	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.	67	FT.
			FT.
	KELLY DOWN	22	FT.
	TOTAL	2522	FT.

WT. OF STRING 60 OLDO LBS.

BIT RECORD

BIT NO.	11	
SIZE	11	
MFG.	REED	
TYPE	OWV	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	37717	
DEPTH OUT		
DEPTH IN	2452	
TOTAL FTG.	70	
TOTAL HR. RUN	13	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	300	6.00
WEIGHT	87	8.9
VISC.–SEC	35	43
W.L.–C.C.	13.8	
FL TR. CK.	1/32	
PH	10.0	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	50	SX	
WATER			

DRILLER: A. Pearson

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
2482	2522	40					500	6½	68	5½		
							1.00		1.8			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	RIG OFF CHAIN HYDRIL
1215	400	12¾	DRLG 11" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
23	STANDS D.P.	22318	FT.
2	SINGLES D.P.	62 93	FT.
9	D.C. I.D.	O.D. 2548 1	FT.
	D.C. I.D.	O.D.	FT.
6	STB. BODY 11"	O.D. 5.20	FT.
	STB. BODY 11"	O.D. 5.20	FT.
	RMR. BODY 11"	O.D. 4.63	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.	67	FT.
			FT.
	KELLY DOWN	31.00	FT.
	TOTAL	2535.66	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	11	
SIZE	11	
MFG.	Hughes	
TYPE	OWV	
NOZZLE NO.	NONE	
NOZZLE SIZE	Conv	
SER. NO.	37769	
DEPTH OUT	2535	
DEPTH IN	2452	
TOTAL FTG.	83	
TOTAL HR. RUN	17½	
COND. OF BIT	7-4-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8	
WEIGHT	8.7	
VISC.–SEC	42	
W.L.–C.C.	15.4	
FL TR. CK.	1/32	
PH	9.0	
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A. Pearson

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
2522	2535	13		Top Longeing Mud To Formation at 2540	50	30	550	6½	68	5½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2535	Misrun							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	1230	4½	Drlg 11" Hole
1230	100	½	Survey & Slug Pipe Take off Drlg Head
100	200	1	Trip Out For Bit
200	215	¼	Check Pipe Rams Make Up Bit
215	230	¼	Run Hole
230	315	¾	Work on Airline Build Up Air Pressure
315	330	¼	Run in Hole
330	400	½	Work On Airline Broke on Mainline Airline

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
24	STANDS D.P.	22174	FT.
	SINGLES D.P.		FT.
5	D.C.		
1	I.D.	O.D. 2598 1	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY 9	O.D. 5320	FT.
	STB. BODY 9	O.D. 520	FT.
	RMR. BODY 7¾	O.D. 413	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41	FT.
	TOTAL	2577	FT.

WT. OF STRING 60000 LBS.

BIT RECORD

BIT NO.	7 11	12
SIZE	11	
MFG.	Hughes	
TYPE	OWV	
NOZZLE NO.	Conv	
NOZZLE SIZE		
SER. NO.	37762	
DEPTH OUT		
DEPTH IN	2535	
TOTAL FTG.	42	
TOTAL HR. RUN	6½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	800	10.00
WEIGHT	8.6	8.5
VISC.–SEC	30	35
W.L.–C.C.		
FL TR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	3500		
Quick Vis	1 gl		
WATER			

DRILLER

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
2535	2577	42			55	25	550	6½	68	5½		
									15			
									19			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	500	1	Work on Airline
530	½	1½	Run in Hole
530	1.00	1½	Drlg 11" Hole

DAILY DRILLING REPORT

REPORT NO. 25 DATE DEC 13/65

OPERATOR: ATLANTIC REFINING

LEASE: ARCO COLUMBIAN CARBON A-11

WELL NO. A-11 | FIELD OR DIST. NINNIT | COUNTY | STATE

CONTRACTOR: S&T DRILLING CO. LTD. | RIG NO. 1E

DRILL PIPE STRING: NO. 1 SIZE 4 | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	~~K~~ & MAT	K 380	
2.	MAT	K 380	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		24 H	17	479		479

REMARKS: PRIVATE ~~TIGHT HOLE~~

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	4½	5¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		1½	1¾
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY			¼
TEST B.O.P.	¼	¼	
CUT OFF DRILLING LINE		¼	
REPAIR RIG		½	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		¼	½
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
21	STANDS D.P.	21107 FT.	
2	SINGLES D.P.	6292 FT.	
9	D.C. I.D.	O.D.	259 81 FT.
1	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	5 10 FT.
	RMR. BODY	O.D.	510 FT.
	SUBS	O.D.	1.64 FT.
	BIT OR C.B.		1.7 FT.
			FT.
	KELLY DOWN		20 FT.
	TOTAL		1113.0 FT.

WT. OF STRING 59000 LBS.

BIT RECORD

BIT NO.	10	
SIZE	11	
MFG.	REED	
TYPE	Y H	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	N35754	
DEPTH OUT		
DEPTH IN	2339	
TOTAL FTG.	91	
TOTAL HR. RUN	20¼	15¼
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1700	300	600
WEIGHT	87	87	9.2
VISC.-SEC	30	34	32
W.L.-C.C.	11.0		
FL.TR. CK.	2/32		
PH	11		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	150	6500	

DRILLER [illegible]

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2340	2430	5C			55	30	475	6½	68	5½		
					55	30	500		68			
							[illegible]		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	R.C SFA.1 CHECK HYDR.11
1715	600	7¾	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
22	STANDS D.P.	21.10.07 FT.	
7	SINGLES D.P.	6293 FT.	
9	D.C. 2 6¾ 8¼ I.D.	O.D.	259.81 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	5 11 FT.
	STB. BODY	O.D.	5 10 FT.
	RMR. BODY	O.D.	4 11 FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		1.7 FT.
			FT.
	KELLY DOWN		42.00 FT.
	TOTAL		2552 48 FT.

WT. OF STRING 59 000 LBS.

BIT RECORD

BIT NO.	10	
SIZE	11	
MFG.	REED	
TYPE	Y 11	
NOZZLE NO.	NONE	
NOZZLE SIZE	N35754	
SER. NO.	↗	
DEPTH OUT	2457	
DEPTH IN	2339	
TOTAL FTG.	113	
TOTAL HR. RUN	20	
COND. OF BIT	~~6-7-4~~ 5-4-1	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4	10	12
WEIGHT	9.8	9.8	9.7
VISC.-SEC	37	35	32
W.L.-C.C.	13.8	13.6	
FL.TR. CK.	2/32		
PH	10.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER A Parker

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2430	2452	22			50	30	475	6½	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2552	¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	1230	4½	DRLG 11" HOLE
1230	100	½	SURVEY TAKE OFF DRLG HEAD BLOW KELLY
100	230	1½	TRIP OUT FOR BIT
230	245	¼	RIG SERV CHECK BLIND RAMS
245	345	1	SLIP & CUT DRLG LINE
345	4⁰⁰	¼	MECHANIC CHECKING RPM ON AIR COMPRESSORS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
23	STANDS D.P.	21 109 FT.	
	SINGLES D.P.	FT.	
	D.C. I.D.	O.D.	259 81 FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	5 10 FT.
	STB. BODY	O.D.	5 10 FT.
	RMR. BODY	O.D.	4 11.1 FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		1.7 FT.
			FT.
	KELLY DOWN		40 FT.
	TOTAL		244 8 FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	11	
SIZE	11	
MFG.	Hughes	
TYPE	OWV	
NOZZLE NO.	Conv	
NOZZLE SIZE		
SER. NO.	36767	
DEPTH OUT		
DEPTH IN	2452	
TOTAL FTG.	30	
TOTAL HR. RUN	5¼	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.00	10.00	
WEIGHT	8.7	8.7	
VISC.-SEC	30	28	
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	30 SX		
WATER	1 STREAM		
1 GAL. QUICK VIS			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2452	2452	5C			45	15	550	6½	6[illegible]			
					50	20	[illegible]					
					[illegible]	25	575					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2452	¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	CHANGE AIR VALVE ROR SAFETY, SHUT DEF FOR MOTOR
415	545	1½	TRIP IN HOLE
545	945	4	DRLG 11" HOLE
945	1015	½	SURVEY
1015	1045	½	CLEAN SECTION FOR LEAKS
1045	1200	1¼	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 24 DATE DEC 12/63

OPERATOR: ATLANTIC REFINING

LEASE: ARCO COLUMBIA BASIN CARBON

WELL NO. L-11 | FIELD OR DIST. N WT | COUNTY | STATE

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. 1E

DRILL PIPE STRING: NO. 1 | SIZE 4 | TOOL JOINT O.D. | TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	FT 350	14
2.	"	K 350	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11¾		42F	17	564		1199

REMARKS: PRIVATE TIGHT HOLE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7½	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		½	
LUBRICATE RIG	½	½	
DEVIATION SURVEY		½	
TEST B.O.P.	½		
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	½	½	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	0
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

DRILLING ASSEMBLY AT END OF TOUR

NO.			
21	STANDS D.P.	1260.45	FT.
2	SINGLES D.P.	63.00	FT.
	D.C. I.D. O.D.		FT.
9	D.C. 2 3/16 I.D. 8 O.D.	2594.82	FT.
	STB. BODY 9 O.D.		FT.
	STB. BODY 9 O.D.		FT.
	RMR. BODY 9 O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	17.	FT.
	TOTAL		FT.

WT. OF STRING 54000 LBS.

BIT RECORD

BIT NO.	9		
SIZE	11		
MFG.	REED		
TYPE	YH		
NOZZLE NO.			
NOZZLE SIZE	NONE		
SER. NO.	531841		
DEPTH OUT			
DEPTH IN	2370		
TOTAL FTG.	55		
TOTAL HR. RUN	11		
COND. OF BIT	R-N-I		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	1900	3.30	1.00
WEIGHT	84	84	84
VISC.—SEC	38	39	35
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
10 SX	GEL		

DRILLER LEO RELICIE

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD OF RUN
3293	3325	32			55	30	425	6¼	68	5½		
					55	30	475	6¼	68			
							500		68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	¼	R.G SERV
1215	1230	¼	SWITCH NO DRILL
1230	800	7½	DRLG 11" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
29	STANDS D.P.	1849.10	FT.
2	SINGLES D.P.	63	FT.
9	D.C. I.D. O.D.	259.81	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY 9 O.D.	5.10	FT.
1	STB. BODY O.D.	5.10	FT.
1	RMR. BODY O.D.	4.61	FT.
	SUBS O.D.		FT.
	BIT OR C.B.	6.7	FT.
			FT.
	KELLY DOWN	17	FT.
	TOTAL	2345	FT.

WT. OF STRING 58000 LBS.

BIT RECORD

BIT NO.	9		10
SIZE	11		11
MFG.	REED		REED
TYPE	YH		YH
NOZZLE NO.	NONE		NONE
NOZZLE SIZE			
SER. NO.	531841	N35784	
DEPTH OUT	2339		
DEPTH IN	2197	2339	
TOTAL FTG.	69		
TOTAL HR. RUN	14		
COND. OF BIT	4-4-I		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	2	10	
WEIGHT	86	87	
VISC.—SEC	35	33	
W.L.—C.C.		18.8	
FL.TR. CK.		8 3/32	
PH		11	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER A Parker

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD OF RUN
7325	7340	15			51	32	475	6¼	68			
					50	30	475	6¼	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2339	3							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	1100	33½	DRLG 11" HOLE
1100	1130	½	SURVEY TAKE OFF DRLG HEAD
1130	100	1½	TRIP OUT FOR BIT
100	115	¼	RIG SERV CHECK POP RAMS
			SET UP BAKERS MECHANICAL CUTTING
115	215	1	ELECTRIC MOTORS
215	345	1½	TRIP IN HOLE PUT ON DRLG HEAD
345	400	¼	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
21	STANDS D.P.	1260.45	FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.	259.81	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	14	FT.
	TOTAL	1340	FT.

WT. OF STRING 58000 LBS.

BIT RECORD

BIT NO.	10		
SIZE	11		
MFG.	REED		
TYPE	YH		
NOZZLE NO.	NONE		
NOZZLE SIZE			
SER. NO.	N35784		
DEPTH OUT			
DEPTH IN		2397	
TOTAL FTG.	49		
TOTAL HR. RUN	7 3/4		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	800	1:00	1200
WEIGHT	87	87	87
VISC.—SEC	30	29	29
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD OF RUN
7340	7391	51			55	30	475	6¼	68			
					55	30	475	6¼	68			
					55	30	475	6¼	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	800	4	DRLG 11" HOLE
800	830	½	WIRE LINE CHANGE HEAD
830	12	7½	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 23 DATE DEC 11/65

OPERATOR: ATLANTIC REFINING

LEASE: ARCO COLUMBIAN CARBON

WELL NO. L-61 FIELD OR DIST. NIAT COUNTY STATE

CONTRACTOR: S&T DRILLING CO. LTD. RIG NO. 1E

DRILL PIPE STRING NO. 4 SIZE 11 TOOL JOINT O.D. TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	14
2.	NAT	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT
11 3/4		H40 F	17	504		499

REMARKS: PRIVATE TIGHT HOLE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	1/2	—	
DRILLING ACTUAL	—	6	3 1/2
REAMING			
CONDITIONING MUD & CIRCULATING	2 1/2		
TRIPS	3	2 1/2	3 1/2
LUBRICATE RIG	1/2	1/2	1/2
DEVIATION SURVEY			
TEST B.O.P.	1		1/2
CUT OFF DRILLING LINE			
REPAIR RIG		1/2	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1/2
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR — NO. 22

STANDS D.P.	18	773 FT.
SINGLES D.P.		FT.
D.C. 9 I.D.	O.D.	259.81 FT.
D.C. 2 3/4 8 I.D.	O.D.	FT.
STB. BODY 11	O.D.	FT.
STB. BODY 11	O.D.	FT.
RMR. BODY 11	O.D.	FT.
SUBS	O.D.	FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN	14	FT.
TOTAL	1832.81	FT.
WT. OF STRING	58000	LBS.

BIT RECORD

BIT NO.	~~STR~~	8
SIZE	11	
MFG.	REED	
TYPE	VM	
NOZZLE NO.	—	
NOZZLE SIZE	11	
SER. NO.	D33790	
DEPTH OUT		
DEPTH IN	1182	
TOTAL FTG.	1.6	
TOTAL HR. RUN	8 1/2	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1200	300	1.00
WEIGHT	85	86	86
VISC.—SEC	28	33	35
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

1 quick vis

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
1000# sawdust			
400# polyethylene			
80 gel			

DRILLER S. R.G.L.

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.—S PAR'EL—P CON'D—C
2228	2248				55	25	625	6 1/2	65	5 1/2		
					55	25	1200					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1215	1/4	RIG SERV CHECK HYDRIL
1215	2300	9 3/4	MIX MUD
2300	800	5 1/2	DRILLING 11" HOLE

NO. 21

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	1979	~~FT.~~
SINGLES D.P.		FT.
D.C. I.D.	O.D.	259.81 FT.
D.C. I.D.	O.D.	FT.
STB. BODY	O.D.	FT.
STB. BODY	O.D.	FT.
RMR. BODY	O.D.	FT.
SUBS	O.D.	FT.
BIT OR C.B.	47	FT.
		FT.
KELLY DOWN	14	FT.
TOTAL	2270	FT.
WT. OF STRING	60	LBS.

BIT RECORD

BIT NO.	8	9
SIZE	11	11
MFG.	REED	REED
TYPE	VM	YH
NOZZLE NO.	3	NONE
NOZZLE SIZE	2 3/4	
SER. NO.	D32792	53184
DEPTH OUT	2270	
DEPTH IN	2197	2270
TOTAL FTG.	73	
TOTAL HR. RUN	14 1/2	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8	10	2
WEIGHT	85	85	94
VISC.—SEC	38	48	54
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	150		

DRILLER Alex Barlow

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.—S PAR'EL—P CON'D—C
2248	2270	22			50	32	1200	6 1/2				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2270	3							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	1/4	Rig Serv Check Hydril
815	930	1 1/4	Work On Pumps
930	730	6	Drlg 11" Hole
730	300	1/2	Survey Take off Drlg Head
300	400	1	Trip Out For Bit

NO. 9

DRILLING ASSEMBLY AT END OF TOUR

STANDS D.P.	1973	~~FT.~~
SINGLES D.P.		FT.
D.C. I.D.	O.D.	259.81 FT.
STB. BODY	O.D.	FT.
STB. BODY	O.D.	FT.
RMR. BODY	O.D.	FT.
SUBS	O.D.	FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL	2233	FT.
WT. OF STRING	54000	LBS.

BIT RECORD

BIT NO.	9
SIZE	11
MFG.	REED
TYPE	VM
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	53161
DEPTH OUT	
DEPTH IN	2270
TOTAL FTG.	23
TOTAL HR. RUN	3 1/2
COND. OF BIT	RUN
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME		800	1100
WEIGHT		84	84
VISC.—SEC		28	28
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	HAD		
CAUSTIC	1/2	STARCH	

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL.—S PAR'EL—P CON'D—C
2270	2293	23			55	30	400	1 1/2	68	5 1/2		
					—	30	600		44			
					55	30	625	6 1/2	64			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	515	1 3/4	Finish Trip Out
515	530	1/4	Rig Serv Check Blind Rams
530	800	2 1/2	Trip in Hole Put on Drlg Head Work
100			Tight Hole
	130	1/2	Ream 12' to Bottom
930	1200	2 1/2	Drlg 11" Hole

EVENING TOUR

DRILLING CREW PAYROLL DATA

DATE DEC 11/65

WELL NAME & NO. ARCO COLUMBIAN CARBON L-61

COMPANY ATLANTIC REFINING

TOOL PUSHER RIG NO.

MORNING TOUR P.M. A.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		LEO BELISLE	12
DRKMAN		MIKE KAAPUK	12
MTRMAN		CLINT CAMPBELL	12
FIREMAN		BRUCE ELLIOTT	12
FLRMAN		DON WICKERC	12
FLRMAN		BARR ARMSTRONG	12
FLRMAN			

Lost 150 bbls fluid to formation L.C.M in mud system at 2293/1681

NO. OF DAYS SINCE LAST LOST-TIME ACCIDENT

DAY TOUR 8 A.M. 8 P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		A RASCHEN	12
DRKMAN		D DOYLE	12
MTRMAN		M SALSALAR	12
FIREMAN		J SHARUN	12
FLRMAN		V BOWKER	12
FLRMAN		R FOURNIER	12
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

EVENING TOUR P.M. P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 22 DATE DEC 10/75

OPERATOR: ATLANTIC

LEASE: ARCO CANADA CARD...

WELL NO. L-14 | FIELD OR DIST. N.W.T. | COUNTY CAN. | STATE CAN.

CONTRACTOR: S&T DRILLING CO. LTD.

RIG NO.

DRILL PIPE STRING NO. | SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Bell

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STOCK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K-500	14
2.		K-500	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		42 F	17	CAN.		1,799	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	13	23½	7
REAMING	¼	1	11
CONDITIONING MUD & CIRCULATING		3½	1
TRIPS	9½	23	2½
LUBRICATE RIG	1/2	1/2	
DEVIATION SURVEY	¼	¼	
TEST B.O.P.	½		
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	½		
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3½		11½
FISHING			

COMPLETION WORK: A. PERFORATING | B. TUBING TRIPS | C. SWABBING | D. TESTING | E. ADDITIONAL | TOTALS

TIME SUMMARY (OFFICE USE ONLY): DAY WORK | HRS. W.O. | HRS. WO/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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
10	STANDS D.P.	1803	FT.
1	SINGLES D.P.		FT.
3	D.C. I.D.	2 1/2	
	D.C. O.D.	10 1/2	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING: LBS.

BIT RECORD

BIT NO.	7	C
SIZE	11	11½
MFG.		REED
TYPE		V-1
NOZZLE NO.		7
NOZZLE SIZE		11
SER. NO.		7
DEPTH OUT	2182	2197
DEPTH IN	2107	2182
TOTAL FTG.	75	15
TOTAL HR. RUN	9½	1½
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME		
WEIGHT	10	
VISC.-SEC	40	
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: C. BILL

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PART'L-P CONT'D-C
2115	2182	D			55	25	1200	6½	65			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2130	2 1/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1700	1915	2¼	R.I. CORE BBL. CLEAR HOLE
1915	2100	1¾	TRIP IN HOLE
2100	2115	¼	WASH 15' TO BOTTOM
2115	2130	¼	DRILL 15'
2130	2330	2	TRIP OUT TO CORE
2330	730	7½	DRILL FROM 2130 TO 2182
730	900	1½	PULL OUT TO CORE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
20	STANDS D.P.	1993	FT.
0	SINGLES D.P.		FT.
9	D.C. I.D.	2 1/2	
	D.C. O.D.	9 1/2	FT.
	STB. BODY O.D.	5 1/8	FT.
	STB. BODY O.D.	5 1/8	FT.
	RMR. BODY O.D.	4.67	FT.
	SUBS O.D.		FT.
	BIT OR C.B.	67	FT.
			FT.
	KELLY DOWN	24	FT.
	TOTAL	2192	FT.

WT. OF STRING: 65 000 LBS.

BIT RECORD

BIT NO.	1	8
SIZE	6¾	11
MFG.		REED
TYPE	DIAMOND	V-M
NOZZLE NO.		3
NOZZLE SIZE	12 3/11	
SER. NO.	EC10409	D32798
DEPTH OUT	2198	
DEPTH IN	2182	2182
TOTAL FTG.	16	
TOTAL HR. RUN	2¼	
COND. OF BIT	4-4-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME		
WEIGHT		
VISC.-SEC		
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PART'L-P CONT'D-C
2182	2197		1	2182-2197 (Cut 15') Rec. 14' Basal Bear Rock	40	8000	1450	5½	6½			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
600	845	¾	Finish Tripping in Hole
845	900	¼	Ream
900	945	¾	Circ. Core Barrel Dead Bbl
945	100	3¼	Cut Core No. 1 2182-2197
100	400	3	Trip Out Recover Core Service Side Strings Remark

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
7	STANDS D.P.	1007	FT.
	SINGLES D.P.		FT.
9	D.C. I.D.	2 1/2	
	D.C. O.D.	9 1/2	FT.
	STB. BODY O.D.	5 1/8	FT.
	STB. BODY O.D.	5 1/8	FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.	67	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	2107	FT.

WT. OF STRING: LBS.

BIT RECORD

BIT NO.	6	
SIZE	11	
MFG.	REED	D32798
TYPE	V-M	
NOZZLE NO.	3	
NOZZLE SIZE	12 2/11	
SER. NO.		
DEPTH OUT		
DEPTH IN	2107	
TOTAL FTG.	75	
TOTAL HR. RUN	11½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	800	1100
WEIGHT	9.1	9.4
VISC.-SEC	46	52
W.L.-C.C.		
FL.TR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT	1321 Bore vis	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
50# sawdust			
200# polycellulose			
300# Flowing			
200# Pipe Recol			

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PART'L-P CONT'D-C
2182	2197						1200	6½	65			
2107	2197											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	630	2½	Trip in Hole
630	745	1¼	Ream 6¾" Rat Hole To 11" From 2182 to 2197
745	1045	3	Drlg From 2197
1045	1100	1¼	

CREW

	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			

Last 400 bbls of fluid to formation. Mixed last circulation mate-rial @ 10#/bbl of 3 sacks-ea L.C.M. material

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT — REPORT NO. 21 — DATE DEC 9/63

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ARCO COLUMBIAN CARBON	L 61	N W T		CAN

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D. TYPE THD.
S & T DRILLING CO. LTD.	1E	1	4	

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 3SA	111
2.	NAT	11 3SA	111
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42 F	17	504		499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	13		7 3/4
REAMING		1/4	
CONDITIONING MUD & CIRCULATING			
TRIPS	3 1/4	7 1/2	
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY	1/4		
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	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 — 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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
10	STANDS D.P.	1775 FT.
2	SINGLES D.P.	630 7 FT.
	D.C. I.D.	O.D. FT.
8	D.C. I.D.	O.D. 23987 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	10 FT.
	TOTAL	2095 FT.
WT. OF STRING		54000 LBS.

BIT RECORD

BIT NO.	6
SIZE	11
MFG.	HUGH
TYPE	OWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	67713
DEPTH OUT	2095
DEPTH IN	1903
TOTAL FTG.	192
TOTAL HR. RUN	18 1/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	700		
WEIGHT	8.4	8.4	
VISC.—SEC	28	28	
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Leo Thibodeau

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
1925	2075	70			55	20	450	6 1/2	68	5 1/2		
					55	20	450					
					55	20	450					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2100	2 1/2		2100	2 1/2				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	12 15	1/4	RIG SERV. CHECK HYDRIL
12 15	7 00	6	DRILL 11" HOLE
7 00	7 15	1/4	SURVEY
7 15	8 00	3/4	TRIP OUT & STRAP OUT

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
19	STANDS D.P.	1797 23 FT.
1	SINGLES D.P.	31 38 FT.
	D.C. 9 I.D.	O.D. 259 91 FT.
9	D.C. I.D.	O.D. FT.
	STB. BODY O.D.	5 10 FT.
	STB. BODY O.D.	5.10 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	67 FT.
		FT.
	KELLY DOWN	0 FT.
	TOTAL	2487 27 FT.
WT. OF STRING		54 000 LBS.

BIT RECORD

BIT NO.	7
SIZE	11
MFG.	REED
TYPE	YTL
NOZZLE NO.	
NOZZLE SIZE	3/11
SER. NO.	444724
DEPTH OUT	
DEPTH IN	2095
TOTAL FTG.	0
TOTAL HR. RUN	0
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: A Parker

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
2095							1200	6 1/2	65	5 1/2		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2100	2 1/2							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9.00	9.30	1/2	FINISH TRIPPING OUT
9.30	9.45	1/4	CORE - RIG
9.45	3.45	5	PICK UP STABILIZERS & 11" CORE BARRELS
3.45			RUNNING HOLE PUT ON BIT & HEAD
3.45	4.00	1/4	WASH 30' TO BOTTOM

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
19	STANDS D.P.	1797 23 FT.
	SINGLES D.P.	12 06 FT.
	D.C. 9 I.D.	O.D. 259 91 FT.
	D.C. I.D.	O.D. FT.
	STB. BODY O.D.	5.10 FT.
	STB. BODY O.D.	5.10 FT.
	RMR. BODY O.D.	4.63 FT.
	SUBS O.D.	FT.
	BIT OR C.B.	1.4 FT.
		FT.
	KELLY DOWN	49 FT.
	TOTAL	2114 18 FT.
WT. OF STRING		55000 LBS.

BIT RECORD

BIT NO.	7
SIZE	11
MFG.	REED
TYPE	YTL
NOZZLE NO.	
NOZZLE SIZE	3/11
SER. NO.	444724
DEPTH OUT	
DEPTH IN	2095
TOTAL FTG.	71
TOTAL HR. RUN	7 3/4
COND. OF BIT	RUN
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	11.00	12.00
WEIGHT	8.11	8.4	8.4
VISC.—SEC	25	26	28
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
2095	2169	74			55	25	1200	6 1/2	65	5 1/2		
					55	25	1200					
					55	25	1200					

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 15	1/4	CLEANING TO BOTTOM
4 15	12 00	7 3/4	DRIG 11" HOLE

DAILY DRILLING REPORT — REPORT NO. 20 — DATE [illegible]

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TARCO	ARCO COLUMBIA [illegible]	L-61	W. SAK		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	E1	1	4		

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J Davidson	

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D360	14
2.	NA-	NB-360	
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	11¾		42#	17	1201		1199	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		4	8
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG		¼	
DEVIATION SURVEY			
TEST B.O.P.	3½		
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	5½	3¾	
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
8	D.C. I.D. O.D.	2398.7	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	6
SIZE	11"
MFG.	HWI
TYPE	DWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	L7713
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.-SEC				
W.L.-C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Slim Belcher

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	230	2½	RIG UP KDV AND PRESSURE TEST
230	600	3½	PICK UP 8 D.C.
600	800	2	PICK UP DRILL PIPE RUN

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
18	STANDS D.P.	1667.23	FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.	239.87	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.	4.65	FT.
	SUBS O.D.	2.10-3.06	FT.
	BIT OR C.B.	1.7	FT.
			FT.
	KELLY DOWN	17	FT.
	TOTAL	1937	FT.
WT. OF STRING		52 000	LBS.

BIT RECORD

BIT NO.	6
SIZE	11
MFG.	Hughes
TYPE	DWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	L7713
DEPTH OUT	
DEPTH IN	1937
TOTAL FTG.	34
TOTAL HR. RUN	4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12			
WEIGHT	9.5			
VISC.-SEC	38			
W.L.-C.C.	WATER			
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
WATER			

DRILLER Abe Pauleen

FOOTAGE 34

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1903	1937				51	15 000	450	6½	68			PAR-EL-P

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	Rig Serv
815	1200	3¾	Pick Up 7 Singles Put on Drlg Head
1200	400	4	Drlg 11" Hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
18	STANDS D.P.	1628.13	FT.
2	SINGLES D.P.	62.84	FT.
8	D.C. I.D. O.D.	239.87	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	42.00	FT.
	TOTAL	2025	FT.
WT. OF STRING		54 000	LBS.

BIT RECORD

BIT NO.	6
SIZE	11
MFG.	HUGHES
TYPE	OWV
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	L7713
DEPTH OUT	
DEPTH IN	1937
TOTAL FTG.	122
TOTAL HR. RUN	12
COND. OF BIT	Run.
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8 00	11 00		
WEIGHT	9.4	9.4		
VISC.-SEC	38	38		
W.L.-C.C.				
FL.TR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1937	2025	VX					450	1½	108	5½	—	
							450	6½	68			
							450	6½	68			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1200	24 00	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 19 DATE DEC 7/65

OPERATOR: TARCO

LEASE: AREA COLUMBIAN CARBON L-41

WELL NO. L-41 | FIELD OR DIST. TOW T | COUNTY | STATE

CONTRACTOR: S&T DRILLING CO. LTD. | RIG NO. E-1

DRILL PIPE STRING NO. 4 SIZE | TOOL JOINT O.D. | TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Rancilio

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. STACK

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	M 380	14
2.	NAT	11-380	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42F	17	504		499	
8 5/8		24 J	61	1905	1560	1903	Pulling stand

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL		0	
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		4	
LUBRICATE RIG		1/4	
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		3 3/4	3
FISHING	8	3	5
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	1
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	100		STUCK IN HOLE NO CIRC
100	500		RIG UP TO BRAKE CIRC. AIR LINE
500	130		TRIP CUT W/ HOSE AND CASING
130			BREAKING CASING AIR PRESSURE ON (RIG UP)
			INJECT - CLINT CAMPBELL ROUGE ELLIOTT
	700		BROOK ARMSTRONG
700	800		FIXING HOSE FARS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
900	900	1	REPAIR POFFARS + PUT UP
900	915	1/4	RIG SERV
915	1000	3/4	BREAK OF ONE SINGLE + DC ONE JOINT
			CASG STUCK STUCK ON DC LAY DOWN ON CATWALK
1000	200	4	TRIP OUT W/ DC
200	400	2	PULL CASG OUT OF HOLE + LAY SAME DOWN

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	900	5	LAY DOWN CASG
200	400	2	LAY DOWN CASG
600	1200	6	CHANGE HEADS + LINERS ON PUMPS + RIG UP BOP

DRILLING CREW PAYROLL DATA

DATE DEC 7/65 PRIVATE

WELL NAME & NO. TIGHT HOLE

COMPANY

TOOL PUSHER RIG NO. 1F

MORNING TOUR P.M. A.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		LEO BEIGIE	12
DRKMAN		MIKE KOSKUIK	12
MTRMAN		CLINT CAMPBELL	12
FIREMAN		BARRY ARMSTRONG	12
FLRMAN		BALCE ELLIOTT	12
FLRMAN		DAN INGHRAM	12
FLRMAN			

Workmen flown to Inuvik for medical check. One man remained Inuvik hospital for observation, to return Dec 9/65 @ 11 A.M. IV.

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAY TOUR A.M. P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		A PARCHENI	12
DRKMAN		D DOYLE	12
MTRMAN		M SACSAULAR	12
FIREMAN		J SHARUM	12
FLRMAN		R FOURNIER	12
FLRMAN		V BOWMER	12
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

EVENING TOUR P.M. P.M.

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 14 DATE DEC 6/11.5

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
	AREO COLUMBIAN CARBON L-6N		N.W.T		CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S & T DRILLING CO. LTD.	16				

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
J Dawson	A Stack

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 38 D	14
2.	NATIONAL	K 38 D	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42#	17	504		499	
9 5/8		32# J	161	1905	15.60	1903	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2	
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
~~TEST~~ B.O.P.	4	3	
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER		2 3/4	
FISHING	8	8	8
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
9	STANDS D.P.	751.30	FT.
	SINGLES D.P.		FT.
1	D.C. 2 3/4 I.D. 6 1/4 O.D.	593.25	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	1.03	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.			
SIZE	7 7/8		
MFG.	SEC		
TYPE	M.H.I		
NOZZLE NO.	3		
NOZZLE SIZE	10		
SER. NO.	704000		
DEPTH OUT			
DEPTH IN	1385		
TOTAL FTG.			
TOTAL HR. RUN	11 1/2		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Sid Hobbs Jr.

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	11.00	11 hrs	STUCK IN HOLE @ 1440
11.00	9.00	11 hrs.	TEAR OUT BOP
			Break of top single to take out intermediate
			Csg hanger

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
9	STANDS D.P.	756.30	FT.
	SINGLES D.P.		FT.
21	D.C. 2 3/4 I.D. 6 1/4 O.D.	593.25	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	1.03	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	1		
SIZE	7 7/8		
MFG.	SEC		
TYPE			
NOZZLE NO.	3		
NOZZLE SIZE	10		
SER. NO.	704000		
DEPTH OUT			
DEPTH IN	1385		
TOTAL FTG.			
TOTAL HR. RUN	14 1/2		
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	1100	3	Take 8 5/8 Csg Slips Out Off Csg Bowl
1100	200	3	Head Up
200			Pull Csg Thru Table Slack Off Drill
	400	2	Pipe Lay One Joint Down Pull Csg

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	600	2	Pull 8 5/8 Csg (810.12)
600	800	2	Pick Up Kelly Fonze in Rat Hole
			Thaw Out
800	400		Rat Bush Circ B
900	930		Thaw Well
930	1015		Pull out 3 stands & 1 single
1015	1130		Stuck in Hole. Unable to work
			casing through surface Csg shoe.

DAILY DRILLING REPORT — REPORT NO. 17 — DATE Dec. 5 '65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TARCO	ARCO COLUMBIAN CARBON L-41	1-41	N.W.T		CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S&T DRILLING CO. LTD.	1-E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Rourke

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Stack

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K-350	14
2.	"	K-350	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		42F	17	504		499	
8 5/8		24#T	61	1905	15.68	1903	CEMENT TO SURF
				1905			

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4	3½	
REAMING Cement			6
CONDITIONING MUD & CIRCULATING			
TRIPS	3½		
LUBRICATE RIG		½	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	4½		
DRILL STEM TEST			
OTHER		4¼	
FISHING			2
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	0	8	8
HRS. W/DP			
HRS. WO/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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D.	O.D.	FT.
21	D.C. I.D.	O.D. 593.25	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING — LBS.

BIT RECORD

BIT NO.	
SIZE	7⅞
MFG.	SEC.
TYPE	M4N
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	704000
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	4³⁰	4½	HEAD UP
4³⁰	0⁰⁰	3½	PICK UP & AND RUN IN

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.	66191	FT.
	SINGLES D.P.	564.52	FT.
	D.C. 5½	1,03	FT.
	D.C. I.D. C¼ O.D. C¼	593.25	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35	FT.
	TOTAL	1395	FT.

WT. OF STRING 50,000 LBS.

BIT RECORD

BIT NO.	1
SIZE	7⅞
MFG.	SEC
TYPE	M4N
NOZZLE NO.	3
NOZZLE SIZE	10
SER. NO.	74000
DEPTH OUT	
DEPTH IN	1385
TOTAL FTG.	211
TOTAL HR. RUN	8½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1174	1395			Air Drlg	40	5000	100	5½				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁴⁵	9⁰⁰	¼	Rig Serv
9⁰⁰	11³⁰	2½	Blow Steam Thaw Air Lines And Kelly
11³⁰	2⁰⁰	2½	Drlg Cement at 1174 Plug at 1225
2⁰⁰	2¹⁵	¼	Pres Up Broke Held Ok Returns
2¹⁵	3⁰⁰	¾	Pump Water into Mud Tanks w/ Air-Rig Up For Air Drlg.
3⁰⁰	4⁰⁰	1	Drlg Cement w/ Air

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D.	O.D.	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING — LBS.

BIT RECORD

BIT NO.	1
SIZE	7⅞
MFG.	SEC.
TYPE	M4N
NOZZLE NO.	3.
NOZZLE SIZE	10
SER. NO.	74000
DEPTH OUT	
DEPTH IN	1385
TOTAL FTG.	
TOTAL HR. RUN	14½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1395	1485											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	10⁵⁰	6	Drlg Cement w/ Air
10⁵⁰	11⁰⁰	1	Stuck in Hole
			Dit stuck 45' off P.B.D. 1455 Bit - 1410'

DAILY DRILLING REPORT

REPORT NO. 1 DATE DEC 11/65

OPERATOR: Atlantic Refining

LEASE: ARCO Columbian Corban A-11

WELL NO.

FIELD OR DIST.: N.W.T.

COUNTY

STATE: CANADA

CONTRACTOR: S & T DRILLING CO. LTD.

RIG NO.: 1E

DRILL PIPE STRING NO. / SIZE

TOOL JOINT O.D. / TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. & T. Main

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	1360	14
2.	NATIONAL	1380	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42# F	17	504	15.6A	499	Cement to surface
8 5/8		24# J	61	1905		1903	Come to with 250 sx cement

DRILLING CREW PAYROLL DATA

DATE: DEC 11/65

WELL NAME & NO.: PRIVATE

COMPANY: ATLANTIC TIGHT HOLE

TOOL PUSHER: RIG NO.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	3½		
WAITING ON CEMENT	5½	8	9
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES / SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.
SIZE
MFG.
TYPE
NOZZLE NO. / SIZE
SER. NO.
DEPTH OUT
DEPTH IN
TOTAL FTG.
TOTAL HR. RUN
COND. OF BIT
REAMER NO.
REAMER TYPE

MUD RECORD

TIME
WEIGHT
VISC.—SEC
W.L.—C.C.
FL.TR. CK.
PH
SD. CONT. %
PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1645		CIRC.
1645	2345		CEMENT PUMP
2345	800		W.O.C. // TEAR BOP OUT // TO SET SLIP

Ran 61 Jts (1905.40') of 8 5/8" 24#, J-55 Csg. Cemented with 200 sx Oilwell Cement followed by 50 sx C.H.E. C plus 2% CaCl2. J.C. @ 3:00 AM 12/12/65
Csg landed on bottom @ 1903 K.B.M. Slurry temp 94° F Bumped plug w/ 1000 psi by-ing pump
Thread locked bottom 65 plus Baker guide + Model G4 differential fill OR DAYS // SINCE LAST LOST-TIME ACCIDENT Flt + Shoe Jts

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.
SIZE
MFG.
TYPE
NOZZLE NO. / SIZE
SER. NO.
DEPTH OUT
DEPTH IN
TOTAL FTG.
TOTAL HR. RUN
COND. OF BIT
REAMER NO.
REAMER TYPE

MUD RECORD

TIME
WEIGHT
VISC.—SEC
W.L.—C.C.
FL.TR. CK.
PH
SD. CONT. %
PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			Set 8 5/8 Casing Subs Cut Off Csg Head Up BOP For Air Drilling

DAY TOUR

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		A Borchen	12
DRKMAN		D Doyle	12
MTRMAN		I Sharun	12
FIREMAN		V Bowker	12
FLRMAN		M Seigler	12
FLRMAN		R Fournier	12
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	
WT. OF STRING		LBS.

BIT RECORD

BIT NO.
SIZE
MFG.
TYPE
NOZZLE NO. / SIZE
SER. NO.
DEPTH OUT
DEPTH IN
TOTAL FTG.
TOTAL HR. RUN
COND. OF BIT
REAMER NO.
REAMER TYPE

MUD RECORD

TIME
WEIGHT
VISC.—SEC
W.L.—C.C.
FL.TR. CK
PH
SD. CONT. %
PRESSURE GRADIENT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1400	1700	8	HEAD UP BOPS FOR AIR DRILLING

EVENING TOUR

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 15 DATE DEC 3/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC	ORCO COLUM BAIN CARBON	1-11	WILT		CAN

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO.: 1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

DRILL PIPE STRING: NO. 1, SIZE 4 — TOOL JOINT O.D. — TYPE THD.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	14
2.		K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		H2-H	17	504	1560	4499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	7	3½	
TRIPS	7	7½	
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING		1½	
RUNNING CASING & CEMENTING		1	
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	3	3	
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	24		

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 — 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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
17	STANDS D.P.	FT.
1	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
8	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	22 45		
Caustic	100 lbs		
Quick Vis	1 gal		

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
								5½		6½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	2⁰⁰	2	10 REAMER 2 9" D.C. DOWN
2⁰⁰	4⁰⁰	2	TRIP IN
4⁰⁰	5⁰⁰	1	WASH HOLE TO BTM
5⁰⁰	8⁰⁰	3	MIX MUD CIRC

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
17	STANDS D.P.	FT.
1	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7⁰⁰	9¹⁵	2	CIRC.
9¹⁵	10¹⁵	1½	TRIP OUT
10¹⁵	3⁰⁰	1¾	T.I.H. TO 1504 & LOST WATER HAMMER DRILLER
3⁰⁰	3⁰⁰	0	DRILL FROM 1504 TO 1560
3⁰⁰	4⁰⁰	1	CIRC. PUMP TO RUNNING CASING

Ran Micrologs 499'-1903', 2" + 5" Spacing

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FL.TR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	10⁰⁰		RUN CASING
10⁰⁰	11³⁰		12¼" HOLE
11³⁰	12⁰⁰		CIRC

DAILY DRILLING REPORT — REPORT NO. 14 — DATE Dec 2/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	OACO COLUMBIAN CORBON	L-61		N.W.T	CAN

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S&T DRILLING CO. LTD.	1E	1	4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W B Kinsman

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	14 380	14
2.	NAT	14 300	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾		42-H	17	507	15.60	499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	¼		
DRILLING ACTUAL	6½		
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	½	2	
LUBRICATE RIG	¼		
DEVIATION SURVEY	¼		
TEST B.O.P.	¼	¼	
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING		5¾	
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			½
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	½	¼	

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 | 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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
12	STANDS D.P.	1121.5	FT.
	SINGLES D.P.	1	FT.
9	D.C. I.D. O.D.	6 2502	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1903	FT.
	WT. OF STRING		LBS.

BIT RECORD	
BIT NO.	4
SIZE	11"
MFG.	HEED
TYPE	YTLJ
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	505-05
DEPTH OUT	1903
DEPTH IN	1783
TOTAL FTG.	120
TOTAL HR. RUN	15
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	1.00	3.00	1.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	[illegible]	[illegible]	
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D.-C
1453	1903	D			65	30	1000	5½		6½	141	
					60	30						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	CHECK BOP RIG SERV
12.15	7.00	6¾	DRLG 11 H:LF
7.00	7.15	¼	SURVEY
7.15	8.00	¾	TRIP OUT

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
12	STANDS D.P.	1284.5	FT.
7	SINGLES D.P.	63.09	FT.
9	D.C. I.D. O.D.	6 505.02	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
1	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1903	FT.
	WT. OF STRING		LBS.

BIT RECORD	
BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	X		X
WEIGHT	X	8.4	8.4
VISC.-SEC		28	28
W.L.-C.C.		10	10
FL.TR. CK.		1	1
PH			N
SD. CONT. %			[illegible]
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER W. Wilson

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D.-C
1903	1903	D					1000	5½		6½		
							1000	X		X		
							1000	14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1703	1¼							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
6.00	10.00	4	TRIP OUT STRAIN PIPE
10.00	10.30	½	SERVICE RIG CHECK B.O.P.
10.30	4.00	5½	R.U. WIRE LOG + DRIFT WT. + HANGER CLEAR

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD	
BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	4.50		
WEIGHT	L		
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK	19		
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COMP'D.-C
								5½			5½	
								X			X	
								14			14	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
N.U. 11.00	2.00	8	Wait on Schlumberger

Run Schl. 499–1188 3 x 2 x 2 x 5" Spacing
Run Borehole Compensated Sonic Log Gamma Ray
499–1390 at 0, 2", 6" Spacing
Attempted Caron Measurements but unable to obtain satisfactory log
Run Velocity Survey @ 4 levels @ 530', 1000', 1430', 1930'
Shot Vector Cable @ 445' and 125'

Completed Movement, Rig Up 1:45

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 12 DATE DEC 1/56

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ORCO COLUMBIAN CARBON	L-61	N W T		CAN

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.
S & T DRILLING CO. LTD.	1E	1	4	TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Rowntree

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		H 17	17	544	1560	499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 3/4	11	7 3/4
REAMING		1/4	
CONDITIONING MUD & CIRCULATING			
TRIPS		2 3/4	
LUBRICATE RIG	1/4	1/4	1/4
DEVIATION SURVEY			
TEST B.O.P.	1/4	1/4	
CUT OFF DRILLING LINE		1/2	
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	7	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
15	STANDS D.P.	1080.64	FT.
1	SINGLES D.P.	31.51	FT.
	D.C. I.D. O.D.		FT.
9	D.C. I.D. O.D.	625.02	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING	60 000		LBS.

BIT RECORD

BIT NO.		3
SIZE		11"
MFG.		REED
TYPE		VTJ
NOZZLE NO.		3
NOZZLE SIZE		14
SER. NO.		233228
DEPTH OUT		
DEPTH IN		1524
TOTAL FTG.		[illegible]
TOTAL HR. RUN		16 3/4
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1.00	2.00	7.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC		35	
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
11 Sks.		Gel-Flo	

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1670	1762	Dr			65	30	1000	7 1/2		1 1/2	14	
					60	30	1000					
					65	30						

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12	1 00	1	DRLG 11" HOLE
1 00	1 15	1/4	CHECK BOP RIG SERV
1 15	8 00	6 3/4	DRLG 11" HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
15	STANDS D.P.	1090.64	FT.
1	SINGLES D.P.	31.56	FT.
	D.C. I.D. O.D.		FT.
9	D.C. I.D. O.D.	625.02	FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.42	FT.
	TOTAL	1788	FT.
WT. OF STRING	62 000		LBS.

BIT RECORD

BIT NO.	3	4
SIZE	11"	11"
MFG.	REED	REED
TYPE	VTJ-J	VTJ-J
NOZZLE NO.	3	3
NOZZLE SIZE	14	14
SER. NO.	623284	505505
DEPTH OUT	1783	
DEPTH IN	1524	1783
TOTAL FTG.	259	
TOTAL HR. RUN	20 1/4	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8.00	12.00	2.00
WEIGHT	8.4	X	
VISC.-SEC	28	"	"
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
X-Vis			
Lime			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1762	1769	26			65	30	1000	7 1/2		1 1/2	14	S
					60	40	"	"		"	"	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1783	1 1/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	1.30	3 1/2	DRLG 11" HOLE
11.30	11.45	1/4	SERVICE RIG
11.45	1.15	1/2	TRIP OUT OF TAPERED PIPE
1.15	1.30	1/4	MAKE UP BIT TRIP IN PIPE
1.30	2.00	1/2	SLIP #3 DRLG LINE CLEAN SUCTION TANK
2.00	3.15	1 1/4	TRIP IN HOLE
3.15	3.30	1/4	CLEAN 15' TO BOTTOM
3.30	11.00	7 1/2	DRLG 11" HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
No	STANDS D.P.	1155.23	FT.
	SINGLES D.P.		FT.
9	D.C. I-9 I.D. 8" O.D.	625.02	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1453	FT.
WT. OF STRING	60 000		LBS.

BIT RECORD

BIT NO.	4	
SIZE	11"	
MFG.	REED	
TYPE	VTJ-J	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.	505505	
DEPTH OUT		
DEPTH IN	1783	
TOTAL FTG.	70	
TOTAL HR. RUN	8 1/2	
COND. OF BIT	A-IN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4.00	1.00	11.00
WEIGHT	8.5	8.5	8.5
VISC.-SEC	28	28	28
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
V			
Lime			
Gel			

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1769	1853	Dr			65	30	1000	5 1/2		1 1/2	14	S
					"	"	"	"		"	"	
				60 40				14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
				5				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	11.15	7 1/4	SERVICE RIG
11.15	12.00	7 1/4	DRLG 11" HOLE

DAILY DRILLING REPORT — REPORT NO. 12 — DATE 11/30/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ORCO COLUMBIAN CORBAN	L-11	NWT	CAN	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	E1	1	4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L Saunders

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Ted Hines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	H 380	14
2.	NATIONAL	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11¾	~~55~~ 5F25	42-H	17	504	1360	499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	23½	7½
REAMING		¼	
CONDITIONING MUD & CIRCULATING			
TRIPS		3	
LUBRICATE RIG	½	½	½
DEVIATION SURVEY	¼		
TEST B.O.P.		½	
CUT OFF DRILLING LINE			
REPAIR RIG		½	
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER WELDING		1	
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES — SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT
CUMULATIVE TON MI. OR TRIPS
NO. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
12	STANDS D.P.	80637 FT.
2	SINGLES D.P.	127 FT.
9	D.C. I.D. O.D.	625.02 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	22 FT.
	TOTAL	FT.

WT. OF STRING 58000 LBS.

BIT RECORD

BIT NO.	2
SIZE	11
MFG.	HW
TYPE	OSC1C
NOZZLE NO.	3
NOZZLE SIZE	14
SER. NO.	36369
DEPTH OUT	
DEPTH IN	1064
TOTAL FTG.	
TOTAL HR. RUN	24¼
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	11.00	1.00
WEIGHT	8.4	8.4	8.4
VISC.-SEC	28	28	28
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1459	1520		11		60	30	950	7½		6½	15	
					60	25	950				15	
					60	20	950				63	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERV
12¹⁵	12⁰⁰	23¾	DRLG

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
13	STANDS D.P.	408.5 FT.
	SINGLES D.P.	FT.
9	D.C. 17 I.D. O.D.	625.02 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	33 FT.
	TOTAL	1558 FT.

WT. OF STRING 54000 LBS.

BIT RECORD

BIT NO.	2	3
SIZE	11	11
MFG.	HW	REED
TYPE	OSC-1G	YT-1
NOZZLE NO.	3	3
NOZZLE SIZE	14	14
SER. NO.	36369	623-28
DEPTH OUT	1524	
DEPTH IN	1064	1524
TOTAL FTG.	460	
TOTAL HR. RUN	23¼	14¼
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9.00	4.00	2.00
WEIGHT	9.2	9.4	9.5
VISC.-SEC	30	32	28
W.L.-C.C.			
FLTR. CK.			
PH		11	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1520	1537	39			60	30	1600	7½		6½	65	C
					65	34	X	X		X	X	C
							1000	14		14	64	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1524	1¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9⁰⁰	9¹⁰	1	DRLG 11 HOLE
9¹⁰	9¹⁵	¼	DRAP SURVEY SERVICE S.L
9¹⁵	10¹⁵	1½	TRIP OUT W/ DAMAGED PIPE
10¹⁵	11⁰⁰	¾	WORK ON S.L CHECK BOPS
11⁰⁰	12⁰⁰	1	WELD COLLAR ON HIR DRL LINE
12⁰⁰	1³⁰	1½	TRIP IN
1³⁰	1⁴⁵	¼	CLEAN 30' TO BOTTOM
1⁴⁵	2⁰⁰	¼	DRLG 1200 HOLE SPOT SAND 2" TRANSDUCER ON DRL LINE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
14	STANDS D.P.	995 FT.
1	SINGLES D.P.	31.67 FT.
	D.C. I.D. O.D.	FT.
9	D.C. 14 I.D. O.D.	625.02 FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	23 FT.
	TOTAL	1618 FT.

WT. OF STRING 58000 LBS.

BIT RECORD

BIT NO.	3	
SIZE	11"	
MFG.	REED	
TYPE	YTL1	
NOZZLE NO.	3	
NOZZLE SIZE	17	
SER. NO.	623928	
DEPTH OUT		
DEPTH IN	1591	
TOTAL FTG.	154	
TOTAL HR. RUN	9½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4.00	6.00	
WEIGHT	8.4	8.4	8.4
VISC.-SEC	29	28	28
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C.	CORE NO.	2:30 FORMATION DRLG. 11 HOLE (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1552	1674	122				30	1600	7½		6½	64	C
						25	1700	X		X	64	C
						30	1600	14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
11.00	11.15	¼	SERVICE S.L CHECK HOSES
11.15	12⁰⁰	7¾	DRL. 11 HOLE

DAILY DRILLING REPORT

REPORT NO. 11 DATE Nov. 29/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ORCO COLUMN BIAN FARM	L-61	MINT	PAR	

CONTRACTOR	RIG NO.
S & T DRILLING CO. LTD.	E1

DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
1	4½		

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
D. Davidson	T. O'Neil

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 3A0	14
2.	NAT	K 3A0	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4	SSF	42-11	17	500	15.0	499	
						55	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	2¼	7¾	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	3		
LUBRICATE RIG		¼	¼
DEVIATION SURVEY	½		
TEST B.O.P.			
CUT OFF DRILLING LINE	3¼		
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	9½		
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
8	STANDS D.P.	FT.
1	SINGLES D.P.	FT.
	D.C. I.D. O.D.	623.02 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.		1	2
SIZE		11	11
MFG.		HW	HW
TYPE		OSC3A	OSC3A
NOZZLE	NO.	7	777
	SIZE		
SER. NO.		36267	36718
DEPTH OUT		1064	
DEPTH IN		499	1064
TOTAL FTG.		565	45
TOTAL HR. RUN		24¼	1½
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	7.00		1.00
WEIGHT	8.5		8.5
VISC.—SEC	36		35
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Oil			

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
1059	1064				65	30	350	7"	17			
	1097	DC										
							600			7½	11	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1064	1½							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1	DRLG
1:00	1:15	¼	SURVEY
1:15	2:15	1	TRIP OUT
2:15	3:00	¾	SLIP LINE CHECK BOPS
3:00	5:30	2½	PICK UP M.C AND REAMER
5:30	6:30	1	RUN IN
6:30	8:00	1½	DRLG

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR 625

NO.		
10	STANDS D.P.	1260 FT.
	SINGLES D.P.	FT.
9	D.C. 1-9 3½ 2¼ I.D. O.D.	625.02 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	9 FT.
	TOTAL	1260 FT.
WT. OF STRING		42000 LBS.

BIT RECORD

BIT NO.		2	
SIZE		11"	
MFG.		HW	
TYPE		OSC-1-1	
NOZZLE	NO.	3	
	SIZE	14	
SER. NO.		36368	
DEPTH OUT			
DEPTH IN		1064	
TOTAL FTG.		196	
TOTAL HR. RUN		9¼	
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	4.00	10.00	7.00
WEIGHT	8.5	8.5	8.5
VISC.—SEC	29	29	29
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
1097	1260	163			65	36	700	7"		7"	65	C
					55	28	500	"		"	60	D
					64	34	925	"		"	64	"

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
9:00	9:15	¼	SERVICE RIG
9:15	4:00	7¾	DRLG 11" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
12	STANDS D.P.	793 FT.
	SINGLES D.P.	FT.
9	D.C. I.D. O.D.	625.02 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	42.00 FT.
	TOTAL	FT.
WT. OF STRING		41000 LBS.

BIT RECORD

BIT NO.		2	
SIZE		11"	
MFG.		H.W.	
TYPE		OSC-1-1	
NOZZLE	NO.	3	
	SIZE	14	
SER. NO.		36368	
DEPTH OUT			
DEPTH IN		1064	
TOTAL FTG.		394	
TOTAL HR. RUN		17	
COND. OF BIT		RUN	
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	6.00	8.00	10.00
WEIGHT	8.5	8.4	8.4
VISC.—SEC	28	28	28
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C
1260	1454	194			55	32	450	7"		7"	65	C
							600	"		"	65	"
							400	"		"		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	SERVICE RIG
4:15	12:00	7¾	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 10 DATE NOV 14/76

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLAS TIC REFINING	ORCO COLUMBIA CARBON	2-21	NW-T	CAN.	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT TYPE THD.	TOOL JOINT O.D.
S&T DRILLING CO. LTD.	E1	4	4		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Dauder

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K 380	14
2.	NAT	K 380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
			55-F25				55	
	11¾		F2-11	17	504	15.60	499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7¾	7
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	½	¼	½
DEVIATION SURVEY	½		½
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			½
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
3	STANDS D.P.	3987.00 FT.	BIT NO.	1	TIME			
	SINGLES D.P.	FT.	SIZE	11	WEIGHT			
8	D.C. I.D. O.D.	294.31 FT.	MFG.	HC	VISC.-SEC			
	D.C. I.D. O.D.	FT.	TYPE	XR-11	W.L.-C.C.		TSR	
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK.			
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH			
	RMR. BODY O.D.	FT.	SER. NO.	71637	SD. CONT. %			
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT			
	BIT OR C.B.	FT.	DEPTH IN	499	MUD & CHEMICALS ADDED			
		FT.	TOTAL FTG.	203	TYPE	AMT.	TYPE	AMT.
	KELLY DOWN	11 FT.	TOTAL HR. RUN	2½				
	TOTAL	712 FT.	COND. OF BIT					
WT. OF STRING	46000 LBS.		REAMER NO.					
			REAMER TYPE		DRILLER			

FOOTAGE FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
510	713						175	6½	60			
							175	6½		7½		
							200	6½				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	635	1		700	1				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERV
12:15	1:15	1	DRLG 11" HOLE
1:15	1:30	¼	SURVEY
1:30	7:00	5½	DRLG
7:00	7:15	¼	SURVEY
7:15	9:00	3	DRLG

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
1	STANDS D.P.	715 FT.	BIT NO.	1	TIME	4:00	12:00	2:00
1	SINGLES D.P.	31.29 FT.	SIZE	11	WEIGHT	8.8	8.6	8.5
7	D.C. I.D. 8 O.D.	287.31 FT.	MFG.	HW	VISC.-SEC	34	28	29
	D.C. I.D. O.D.	FT.	TYPE	X-C-11	W.L.-C.C.			
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK.			
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH			
	RMR. BODY O.D.	FT.	SER. NO.	36357	SD. CONT. %			
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT			
	BIT OR C.B.	FT.	DEPTH IN	419	MUD & CHEMICALS ADDED			
		FT.	TOTAL FTG.	403	TYPE	AMT.	TYPE	AMT.
	KELLY DOWN	FT.	TOTAL HR. RUN	12½				
	TOTAL	FT.	COND. OF BIT					
WT. OF STRING	41000 LBS.		REAMER NO.					
			REAMER TYPE		DRILLER			

FOOTAGE FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
713	913	2			70	24	200	6½	67	7½		S
						1	200	X	69	X		
							200	14	19	14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	SERVICE RIG
8:15	4:00	7¾	DRLG 11" HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD			
7	STANDS D.P.	941.53 FT.	BIT NO.	1	TIME	4:00	1:00	10:00
	SINGLES D.P.	FT.	SIZE	11"	WEIGHT	8.5	8.5	8.5
1	D.C. I.D. 2¾ O.D. 8	29.31 FT.	MFG.	HC	VISC.-SEC	28	28	28
	D.C. I.D. O.D.	FT.	TYPE	OSC 1C	W.L.-C.C.			
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK			
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH			
	RMR. BODY O.D.	FT.	SER. NO.	36367	SD. CONT. %			
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT			
	BIT OR C.B.	FT.	DEPTH IN	1394 ft	MUD & CHEMICALS ADDED			
		FT.	TOTAL FTG.	1052 552	TYPE	AMT.	TYPE	AMT.
	KELLY DOWN	FT.	TOTAL HR. RUN	23½				
	TOTAL	FT.	COND. OF BIT					
WT. OF STRING	41,000 LBS.		REAMER NO.					
			REAMER TYPE		DRILLER			

FOOTAGE FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
913	1052	139					375	7 7/8	17	16		S
							375	X		X	18	
							350	7 7/8		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	900	1¾	X	1010	1¾				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	SURVEY TIC SERVICE
4:15	8:15	4	DRLG 11" HOLE
8:15	8:30	¼	SURVEY
8:30	9:00	½	WORK ON PUMP
9:00	12:00	3	DRLG 11" HOLE

DAILY DRILLING REPORT

REPORT NO. 9 DATE NOV 27/63

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining	ORCO COLUMBIAN CARBON	L41			

CONTRACTOR	RIG NO.	+ DRILL PIPE STRING NO.	+ DRILL PIPE STRING SIZE	TOOL JOINT O.D.
S & T DRILLING CO. LTD.	1E	16	4	TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Tool Hands

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	F 3411	14
2.	NAT	F 340	111
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING TUBING OR LINER	11.		55 F25				55	
	11 3/4		42, H	17	504	15.60	499	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN		5 2	2 1/4
DRILLING ACTUAL			13 1/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		3/4	
LUBRICATE RIG		1/4	
DEVIATION SURVEY			
TEST B.O.P.		1/2	
CUT OFF DRILLING LINE			
REPAIR RIG			1 1/2
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST	DRILL OUT 2nd		
OTHER Trip Ball	8	1	2
FISHING			6
COMPLETION WORK 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 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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD	
BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			PIPES HEAD UP
			PRESSURE KLINT KAN 15 MIN. OK
			1200 P.S.I. 20 min.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
2	STANDS D.P.	472.41	FT.
1	SINGLES D.P.	31.61	FT.
8	D.C. I.D. O.D.	269.31	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.00	FT.
	TOTAL	5.00	FT.
WT. OF STRING		46.000	LBS.

BIT RECORD	
BIT NO.	1
SIZE	11"
MFG.	H.W.
TYPE	OSC-1G
NOZZLE NO.	3
NOZZLE SIZE	3/32 E
SER. NO.	36367
DEPTH OUT	
DEPTH IN	477
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	11.00	3	SERVICE R.L
11.00	7.00	3/4	TRIP IN HOLE
7.00	7.15	1/4	PRESSURE TIE TANK 1200 PSI FOR 15 M.N. OK
7.15	7.30	1/4	PRESSURE HI DRIL 12 PSI FOR 15 M.N. HELD O.K
7.30	3.00	5 1/2	R.U. UP FOR AIR DRILLING
3.00	4.00	1	DRILL OUT 21' CEMENT W/WATER TOOL HED
			FLOAT AT 467'

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD	
BIT NO.	1
SIZE	11"
MFG.	H W
TYPE	OSC 1G
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	36367
DEPTH OUT	
DEPTH IN	499
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD				
TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				
MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.
DRILLER				

FOOTAGE FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
499	511							1				
								2				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	6.00	2	DRILL OUT FLOAT & SHOE DRILL 1 FOOT
6.00	7.15	1 1/4	CHANGE OVER TO AIR DRILLING
7.15	8.15	1	HOOK UP TORQUE GAUGE
8.15	9.00	3/4	AIR DRLG
9.00	11.15	2 1/4	RIG TO DRLG W/WATER
11.45	12.00	3/4	DRLG W/WATER

DAILY DRILLING REPORT

REPORT NO. 8 DATE NOV 24

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ARCO COLUMBIAN CARBON L.G.	7-61	N.W.T		

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TOOL JOINT TYPE THD.
S & T DRILLING CO. LTD.	1E	7	4 1/2		

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. M. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: Told Thomas

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	H 380	14
2.	NAT	H 380	
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11 3/4		42# H	17	15.60	499		

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE.
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & 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	8	8	8
OTHER — Head up		UP	
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12	8 00	8	HEAD UP

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	4 00	8	HEAD UP
			Cso head 12" low, inct=Hed 14" 10"x11" Series 900 Depart and modified air drilling head Blow lines

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		FT.
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	
WEIGHT	
VISC.—SEC	
W.L.—C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SCL—S PAR'EL—P COM'D—C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	4 00	4	HEAD UP
4 00	12 00	4	HEAD UP

DAILY DRILLING REPORT

REPORT NO. 7 DATE NOV 25

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining Co.	GRCO COLUMBIAN CORBON	24	NW 1	CAN.	

CONTRACTOR	RIG NO.	DRILL PIPE - STRING NO.	DRILL PIPE - STRING SIZE	TOOL JOINT O.D. TYPE THD.
S&T DRILLING CO. LTD.	15	1	4.	FH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER:

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	H 340	14"
2.		H 340	12"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16		55 F 25				55	
~~13 3/4~~		~~42, H~~	~~17~~		15.60	~~179~~	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & 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	8	8	
DRILL STEM TEST			
OTHER Nipple Up			8
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	
	D.C. I.D. O.D.	FT.	MFG.	
	D.C. I.D. O.D.	FT.	TYPE	
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1	W.O.C.
			Welding on Csg. Bowl

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	
	D.C. I.D. O.D.	FT.	MFG.	
	D.C. I.D. O.D.	FT.	TYPE	
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1:00	4:00	1	W.O.C. Dig Cellar
			R.K.B. Csg Head Flange. = 15.60

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD	
	STANDS D.P.	FT.	BIT NO.	
	SINGLES D.P.	FT.	SIZE	
	D.C. I.D. O.D.	FT.	MFG.	
	D.C. I.D. O.D.	FT.	TYPE	
	STB. BODY O.D.	FT.	NOZZLE NO.	
	STB. BODY O.D.	FT.	NOZZLE SIZE	
	RMR. BODY O.D.	FT.	SER. NO.	
	SUBS O.D.	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	DEPTH IN	
		FT.	TOTAL FTG.	
	KELLY DOWN	FT.	TOTAL HR. RUN	
	TOTAL	FT.	COND. OF BIT	
WT. OF STRING		LBS.	REAMER NO.	
			REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FL.TR. CK				
P.I				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	7:00	1	W.O.C. Dig Cellar - Change
			Nipping up.

DAILY DRILLING REPORT

REPORT NO. 6 DATE NOV 24/65

OPERATOR

LEASE: ARCO, COLUMBIAN CARBON

WELL NO. L-41 | FIELD OR DIST. N.W.T | COUNTY | STATE

CONTRACTOR: S & T DRILLING CO. LTD. | RIG NO. E1

DRILL PIPE STRING NO. 1 SIZE 4 | TOOL JOINT O.D. TYPE THD. FH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A. W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: W. L. Thomas

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1	NAT	K3BD	10"
2	NAT	K380	
3			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16		55 F25				35	
11 3/4		42# H	17	504.91		499	Cement to surface w/HOWCO P.H.F.P

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	3/4		
DRILLING ACTUAL	7 1/2	3/4	
REAMING	1/4	1/4	
CONDITIONING MUD & CIRCULATING		1/2	1/2
TRIPS		3 1/2	
LUBRICATE RIG	1/4	1/4	
DEVIATION SURVEY	1/4	1/4	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	3	2 1/2	5 1/2
WAITING ON CEMENT			7 1/2
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	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR NO. 1

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
9 D.C. I.D. O.D.	239.82	FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	1
SIZE	15
MFG.	SEC
TYPE	56
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	633299
DEPTH OUT	
DEPTH IN	345
TOTAL FTG.	1
TOTAL HR. RUN	31
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	1.00	3.00	6.00
WEIGHT	9.4	9.4	9.3
VISC.-SEC	43	42	43
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	100		

DRILLER: S. Hall

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCH.-S PAR'EL-P CONT.-C
478	496				55	20	300	7 1/2	69	1 1/2		
		18										

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	1/4	RIG SERV
12.15	8.00	7 3/4	DRLG

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR NO. 2

2	STANDS D.P.	189.10 FT.
1	SINGLES D.P.	31.69 FT.
D.C. I.D.		FT.
9 D.C. I.D. / O.D.	239.82	FT.
STB. BODY O.D.		FT.
STB. BODY O.D.		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN	5.59	FT.
TOTAL		FT.
WT. OF STRING	44,000	LBS.

BIT RECORD

BIT NO.	2
SIZE	15"
MFG.	SEC
TYPE	51
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	633299
DEPTH OUT	477
DEPTH IN	345
TOTAL FTG.	154
TOTAL HR. RUN	31 1/4
COND. OF BIT	1 2 0 0
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	A	
WEIGHT	9.4	2	
VISC.-SEC	43		
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCH.-S PAR'EL-P CONT.-C
476	477	3					300	7 1/2	69	1.6		
							A	X		X		
							1 1 0	14"		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
477	1 1/2							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.00	1	SERVICE RIG
9.00	9.15	1/4	DRLG. 15" HOLE
9.15	9.30	1/4	3 DROP SURVEY
9.30	10.15	3/4	MEASURE OUT OF HOLE
10.15	10.30	1/4	TRIP IN
10.30	11.00	1/2	CIRC WORK PIPE
11.00	11.30	1/2	TRIP OUT TO RUN CASING
11.30	12.15	3/4	TRIP OUT TO RUN CASING
12.15	4.00	3 3/4	RUN CASING

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR NO.

STANDS D.P.		FT.
SINGLES D.P.		FT.
D.C. I.D. O.D.		FT.
D.C. I.D. O.D.		FT.
STB. BODY O.D.		FT.
STB. BODY		FT.
RMR. BODY O.D.		FT.
SUBS O.D.		FT.
BIT OR C.B.		FT.
		FT.
KELLY DOWN		FT.
TOTAL		FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SCH.-S PAR'EL-P CONT.-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.30	1/2	RUN CASING
4.30	4.45	1/4	CIRC
4.45	9.00	1/4	RIG TO CEMENT
9.00	9.30	1/2	CEMENT
9.30	9.45	1/4	PLUG DOWN.
9.45			WOC

Ran 504.96' of 11 3/4" H, ST&C Csg.
Cemented with 400 sx C Class C 2% CaCl
Circulated 20 bbls cement returns
Csg landed on bottom @ 499'
Centralizers @ 480' & 420'
Thread locked & welded 6 collars

MTRMAN

FIREMAN

FLRMAN

FLRMAN

FLRMAN

NO. OF DAYS SINCE LAST LOST TIME ACCIDENT

DAILY DRILLING REPORT

REPORT NO. 5 DATE NOV 22

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
ATLANTIC REFINING	ARCO COLUMBIAN CORBON 2-61		N.W.T	CAN.	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	1E		4		FH

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. M. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 390	14"
2.	NATIONAL	K 390	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RCB. TO CSG. HD.	SET AT	REMARKS
16		55 F25				55	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	9	7½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG		¼	¼
DEVIATION SURVEY		¼	
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			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
1	STANDS D.P.	1422 FT.	
1	SINGLES D.P.	3139 FT.	
	D.C. I.D. O.D.		FT.
8	D.C. 2 7/8 I.D. O.D.	239.82 FT.	
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING	47.000 LBS.		

BIT RECORD

BIT NO.	2
SIZE	15"
MFG.	SEC
TYPE	S6
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	633799
DEPTH OUT	345
DEPTH IN	345 65
TOTAL FTG.	
TOTAL HR. RUN	8
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	2	10
WEIGHT	4.5	4.6	9.5
VISC.-SEC	95	90	105
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
		WATER	

DRILLER: Lee Robicheaux

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
345	410				45	20	300	7½		6½		
							300					
							300					

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	800	8	DRLG. 15" HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
2	STANDS D.P.	1171.10 FT.	
	SINGLES D.P.	FT.	
	D.C. I.D. O.D.		FT.
8	D.C. 2 7/8 I.D. O.D.	239.82 FT.	
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	447	FT.
WT. OF STRING	44.000 LBS.		

BIT RECORD

BIT NO.	2
SIZE	15"
MFG.	SEC
TYPE	S6
NOZZLE NO.	3
NOZZLE SIZE	3-14
SER. NO.	633299
DEPTH OUT	
DEPTH IN	345
TOTAL FTG.	102
TOTAL HR. RUN	15½
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	17.00	2.00
WEIGHT	10.1	9.2	9.2
VISC.-SEC	43	41	40
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
		WATER	

DRILLER: W. Hixon

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
410	471				40	20	300	7½	69	6½		S
							300	X	69	X		
							300	14"	69	14"		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	420	3/4							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	9.00	2	SERVICE R.L
9.00	10.30	2½	DRLG. 15" HOLE
10.30	10.45	¼	SURVEY
10.45	4.00	5¼	DRLG

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
2	STANDS D.P.	1479.15 FT.	
	SINGLES D.P.	FT.	
	D.C. I.D. O.D.		FT.
8	D.C. I.D. O.D.	239.82 FT.	
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	414	FT.
WT. OF STRING	42.000 LBS.		

BIT RECORD

BIT NO.	2
SIZE	15"
MFG.	SEC
TYPE	S6
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	633299
DEPTH OUT	
DEPTH IN	345
TOTAL FTG.	133
TOTAL HR. RUN	23½
COND. OF BIT	RUN
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	1.00	9.00
WEIGHT	9.4	9.3	9.4
VISC.-SEC	39	42	43
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000		
		WATER	

DRILLER:

FOOTAGE

FROM	TO	DR.-D RM.-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
417	479				50	20	300	7½	69	6½		S
							300	X	69	X		
								14"		14"		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	SERVICE RIG
4.15	12.00	7¾	DRLG

DAILY DRILLING REPORT — REPORT NO. 4 — DATE NOV 22-

OPERATOR: ATLANTIC REFINING — LEASE: ARCO COLUMBIAN CORBON L-61 — WELL NO. L-61 — FIELD OR DIST. N.W.T — COUNTY CAN. — STATE

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO. 1E

DRILL PIPE STRING NO. — SIZE — TOOL JOINT O.D. — TYPE THD.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: O Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T/P Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NATIONAL	K 340	14"
2.	NATIONAL	K 340	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16		52 #F-5					

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			4
DRILLING ACTUAL	7½	4½	3
REAMING		½	
CONDITIONING MUD & CIRCULATING			
TRIPS		2	2½
LUBRICATE RIG		½	¼
DEVIATION SURVEY		¼	¾
TEST B.O.P.			¼
CUT OFF DRILLING LINE			
REPAIR RIG	½	2½	
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	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO. — NO. OF LINES — SIZE — FEET SLIPPED — FEET CUT OFF — PRESENT LENGTH — TON MI. OR TRIPS SINCE LAST CUT — CUMULATIVE TON MI. OR TRIPS — NO. OF DAYS FROM SPUD — CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
6	D.C. 6 5/8" I.D. O.D.	179.82	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	782	FT.
	BIT OR C.B.	1.06	FT.
			FT.
	KELLY DOWN	41.68	FT.
	TOTAL		FT.

WT. OF STRING 34.000 LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	SEC
TYPE	53
NOZZLE NO.	NONE
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	
DEPTH IN	50 55
TOTAL FTG.	200 165
TOTAL HR. RUN	25
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	12	—	1
WEIGHT	69	70	80
VISC.—SEC			
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	500		

DRILLER Geo. H. Leslie

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
180	240				55	20	700	6¾	65	T¼		
					65	20	225		65			
							250		63			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	330	3½	DRLG 15" HOLE
330	400	½	CHANGE W/L UNION C.M. MAIN LINE
400	500	1	DRLG 15" HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
6	D.C. 6 5/8" I.D. O.D.	179.82	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	782	FT.
	BIT OR C.B.	1.06	FT.
			FT.
	KELLY DOWN	41.68	FT.
	TOTAL		FT.

WT. OF STRING 38.000 LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	SEC.
TYPE	53
NOZZLE NO.	3 3 3
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	
DEPTH IN	305
TOTAL FTG.	320 165
TOTAL HR. RUN	25 29¾
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00	12.00	7.00
WEIGHT			
VISC.—SEC	79	56	58
W.L.—C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	11.0		

DRILLER W. Allen

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
240	320				65	20	250	7½	64	6½		S
							275	X	65	X		
							275	14"	64	14"		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
360	0							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
7.00	7.00	1	DRLG. 15" HOLE
9.00	9.15	¼	SURVEY. SERVICE R.G
9.15	10.15	1	SINKER BAR NOT HOLDING IN TOTCO BBL. TRIP OUT
10.15	10.45	½	CHECK B.T WORK ON HIGH CLUTCH
10.45	11.45	1	TRIP IN
11.45	2.00	2¼	DRLG.
2.00	2.30	½	MAKE UP WASH PIPE PACKING HOG ON AIR INTAKE PIPE - REPAIR
2.30	4.00	1½	DRLG.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
6	D.C. 6 5/8" I.D. O.D.	179.82	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.	782	FT.
	BIT OR C.B.	1.06	FT.
			FT.
	KELLY DOWN	41.68	FT.
	TOTAL		FT.

WT. OF STRING 42.000 LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	SEC
TYPE	53
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	345
DEPTH IN	55
TOTAL FTG.	290
TOTAL HR. RUN	3 3/4
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	4.00	4.30	10.00
WEIGHT	10.1	9.4	9.5
VISC.—SEC	57		45
W.L.—C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	10#		

DRILLER

FOOTAGE

FROM	TO	DR—D RM—R CORE—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
320	345	1	1				275	7½	69	6½		
		X	1					X		X		
								14"		14"		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
345	1°							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	SERVICE S.G
4.15	9.15	5	DRLG.
9.15	9.30	¼	SURVEY
9.30	12.00	2½	TRIP ! PICK UP 2 D.C. CHANGE B.T.

DAILY DRILLING REPORT

REPORT NO. 3 DATE Dec 21/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining	Pipeline Columbian Carbon	L-61	West	Canada	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.	15				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J Rendon

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. R. Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K 280	14"
2.	National	K 380	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
16		52# F25					

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	2	7¼	5½
REAMING	¼		
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG		¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			12
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	4		
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	4	8	12

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	5.14
	FJT OR C.B.	1.06
	KELLY DOWN	
	TOTAL	

WT. OF STRING LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	Sec.
TYPE	S-3
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	
DEPTH IN	55
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	70 sks.		
Caustic	100	33.	

DRILLER L. Belisle

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
55	75				45	6.0	150	7½		6½	68	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	4.00	4	Rig up Flow Line. W.O.C.
4.00	6.00	2	Drill out 30 ft. Cement
6.00	8.00	2	Drill 15" Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
1	D.C. 6½ I.D. O.D.	119.89
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	5.14
	BIT OR C.B.	1.06
	KELLY DOWN	24
	TOTAL	150.49

WT. OF STRING LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	Sec.
TYPE	S3
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	
DEPTH IN	55
TOTAL FTG.	137 — 132
TOTAL HR. RUN	11¼
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	9.00	12.00	2.00
WEIGHT			
VISC.—SEC	53	51	47
W.L.—C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER L. Belisle

FOOTAGE

FROM	TO	DR.—D RM.—R CORE.—C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
75	137				45	6.00	150	7½	60	6½	68	
					65	12.00	150		65		68	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
100	¾		15	1				

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	8.15	¼	Service Rig
8.15	8.30	¼	Survey
8.30	1.00	4½	Drill 15" Hole
1.00	1.15	¼	Survey
1.15	4.00	9¾	Drill

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		FT.
	STANDS D.P.	
	SINGLES D.P.	
	D.C. I.D. O.D.	
	D.C. I.D. O.D.	
	STB. BODY O.D.	
	STB. BODY O.D.	
	RMR. BODY O.D.	
	SUBS O.D.	
	BIT OR C.B.	
	KELLY DOWN	
	TOTAL	

WT. OF STRING LBS.

BIT RECORD

BIT NO.	1
SIZE	15"
MFG.	Sec
TYPE	S3
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	530252
DEPTH OUT	
DEPTH IN	55
TOTAL FTG.	~~180~~ 125
TOTAL HR. RUN	17¼
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME			
WEIGHT			
VISC.—SEC			
W.L.—C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
137	180				65	12	150	7	65	6½	68	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
165			3/4					

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	Service Rig
4.15	5.00	¾	Drill 15" Hole
5.00	5.15	¼	Pull Rollers + Check Bit
5.15	7.00	1¾	Drill
7.00	7.15	¼	Work on Pump
7.15	7.45	½	Drill
7.45	9.00	1¼	Take 45 Cameron Heavy Wt Stand Pipe
9.00	9.00		Chain Reel on Stand Pipe

4.00 1-15 21 Drill 1845 — 11 Survey — 110 — 12 Deg

DAILY DRILLING REPORT

REPORT NO. 2 DATE Nov 20/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining Company	Atlantic Pal Par Montney Lse	L-61	Glacier Block		N.W.T.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING CO. LTD.				3½	TF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. W. Dunbar

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T. J. L. Turner

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K 380	14
2.	National	K 380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
11"	Smls	55# F25	2	45		55	Cemented surface

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4½		
REAMING	3		
CONDITIONING MUD & CIRCULATING		1	
TRIPS		1	
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG	½		
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING		2½	
WAITING ON CEMENT		3½	8
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK A. PERFORATING			
COMPLETION WORK B. TUBING TRIPS			
COMPLETION WORK C. SWABBING			
COMPLETION WORK D. TESTING			
COMPLETION WORK E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	8	8	8
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
1	D.C. 23/16 I.D. 8 O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	2A		
SIZE	21"		
MFG.	Sec	Reed	
TYPE	S3	11"-21"	
NOZZLE NO.	0-44'		
NOZZLE SIZE			
SER. NO.	706957		
DEPTH OUT	55		
DEPTH IN	44		
TOTAL FTG.	11 Drlg		
TOTAL HR. RUN	7½		
COND. OF BIT	1-1-1		
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	2	H		
WEIGHT				
VISC.—SEC	45	65		
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Lime	100#		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
44	55											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	2:30	2½	Drlg 21" hole
2:30	3.00	½	Pick up [illegible]
3.00	8.00	5	Drlg 21" hole
			3 hrs reaming 11" — 21"

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
	55											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	9:00	1	Circulate
9:00	11:00	2	Pull out and run casing to bottom
11:00	12:30	2½	Rig up to cement and cement conductor pipe
12:30	4:00	3½	W.O.C. Rig down

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.—S PAR'EL—P COM'D—C
	55											

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00		W.O.C. Install riser and Flo Nipple on conductor pipe
Ran and cemented 45' of 16" 55# F25 Csg. Cemented with 70 sx CLASS A + 2% CaCl2 TO @ 12:00 P.M. 11/20/65 Plug landed @ 55' RKB. Circulated cement returns @ 65°F. Mixing water 78°F			

FLRMAN

FLRMAN

FLRMAN

MEH

DAILY DRILLING REPORT — REPORT NO. 1 — DATE 11/19/65

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Atlantic Refining Co.	Atlantic Col Carb Manitou Lake	L-61	N.W.T.		N.W.T

CONTRACTOR: S & T DRILLING CO. LTD. — RIG NO. 1E

DRILL PIPE STRING: NO. — SIZE 4 — TYPE THD. — TOOL JOINT O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J W. Davidson

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: T/K Haines

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	National	K 380	14"
2.	National	K 380	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	8	7	7
DRILLING ACTUAL		1	1
REAMING			
CONDITIONING MUD & 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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK		
HRS. W/DP	1	1
HRS. WO/DP		7
HRS. STANDBY		
TOTAL DAY WORK	1	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME				
WEIGHT				
VISC.—SEC				
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
Drilling Authority No. 204			
			Estimated Ground Level 4220.00 ASL
			R.K.B. — Ground 12.20
			R K B (Est.) 4232.20
			Atlantic Col Car Manitou Lake L-61
			66° 20' 40" N Lat. 128° 58' 00" W Long

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	1A
SIZE	11"
MFG.	U. III
TYPE	OSC 1C
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	36367
DEPTH OUT	~~0~~
DEPTH IN	0
TOTAL FTG.	24
TOTAL HR. RUN	1
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	3.00			
WEIGHT				
VISC.—SEC	50			
W.L.—C.C.				
FLTR. CK.				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	60SK		
Lime	20 lbs		

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
0	24							7¾		6½		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	3:00	7	Rig up
3:00	4:00	1	Drill 11" pilot hole
			Spud Atlantic Col Car Manitou Lake L-61 @ 3:00 PM 11/19/65

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.		
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD

BIT NO.	1A
SIZE	11"
MFG.	U. III
TYPE	OSC 1C
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	36367
DEPTH OUT	44
DEPTH IN	0
TOTAL FTG.	44
TOTAL HR. RUN	2
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD

TIME	8.00			
WEIGHT				
VISC.—SEC	50			
W.L.—C.C.				
FLTR. CK				
PH				
SD. CONT. %				
PRESSURE GRADIENT				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER

FOOTAGE

FROM	TO	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. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL—S PAR'EL—P COM'D—C
24	44				30	—	250	7¾	40	6½	40	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1	Drill 11" pilot hole
5:00	6:30	1½	Work on bolts on #1 pump
6:30	12:00	5½	Drilling mouse hole & rat hole