PAN. AM. HOME CSPET-AL-
A-1 N. ISLAND R O-12

Drilling Authority No. 111
Date Issued Feb 14, 1962

WELL NAME PAN AM HOME CSP et al A-1 N. Island E O-12
FIELD
Area:
LOCATION: Unit O
Section 12
Grid 60° 30'N 121° 00'W
Latitude 60° 21' 57.2"N
Longitude 121° 02' 36.5"W
From Established Reference Marker

Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
MAR 2 [illegible]	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.
	Approval to Commingle Production before Measurement.
	Application to Amend Approval No to Commingle Production before Measurement.
	Application for M.P.R.—Oil.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Field Abandonment Programme and Approval.
	Well Card.
	Well Visit.
	Daily Drilling Reports.

NANR 52-90(1-61)

Drilling Authority No. 111
Date Issued Feb. 14, 1962

CANADA

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES 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: Pan Am Home CSP et al A-1 N. Island R 0-12

Permit No. 1156 — Lease No. N/A

Home Oil Company Limited (Permittee, Licensee, Lessee) — Exploratory Licence No. 836

Pan American Petroleum Corporation (Operator) — Exploratory Licence No. 569

Location: Unit 0 — Section 12 — Grid 60°30'N 121°00'W

Latitude 60°21'57.2"N — Longitude 121°02' 36.5" W

From Established Reference Marker 133, 491.5' North and 40,063.3' East of N.W.T./B.C. Boundary Monument No. 87

	DATE	DEPTH
Spudded	3-28-62	-
Suspended		
Resumed		
Finished Drilling	4-28-62	6874'
Deepened		
Complete (gas/oil)		
Abandoned	5-4-62	6874'
Rig released	5-5-62	

Pool (S) Home

Interval(s) open to production Home

Elevation: Gr. 1747.6'
K.B. 1761'

Drilling Contractor & Rig No. Peter Bawden Drilling Ltd. Rig #3

Contractor's Licence No. 15484

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 13-3/8"	54.5#	1190	1190	1075	2 Plug
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Mississippian	1628	+ 133
Exshaw	2332	- 571
Devonain	2554	- 793
1st. Lime	2642	- 881
2nd Lime	3158	-1397
Base 2nd Lime	3777	-2016
3rd Lime	4197	-2436
Hay River Shale	4250	-2489
Black Shale	5970	-4209
Slave Point	6006	-4245
Elk Point	6668	-4907
Detrital	6816	-5055
Pre-Cambrian	6861	-5100

CORE RECORD

From	To	Rec.	From	To	Rec.
6040	6042	6"*			
6042	6092	50'			

* Core barrel jammed

LOG RECORD

Run No.	Type of Log	From	To
1	Gamma Sonic Caliper	6848	1190
1	Induction Electric	6870	1190

NANR 52-90(2) (1-61)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
5-3-62	6610	6874	Abandonment plugs. Plug #1 140 sxs + 0.1% HR-12 Felt at 6543'
5-3-62	6060	5960	Plug #2 35 sxs + 0.1% HR-12 No Feel
5-4-62	3210	3110	Plug #3 100 sxs Neat Felt at 3082'.
5-4-62	1240	1140	Plug #4 150 sxs + 2% $CaCl_2$ Felt at 1126'

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks
			Not applicable

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
			Not applicable

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	4-25-62	Elk Point	6689	6720	120	30	30	2655	2676	1061	2662	3500	3377	Fair initial puff, increasing to strong in 10 mins. Steady throughout test. No gas to surface. Rec: 200' salt water cut mud 180' mud cut salt water 3020' sulphurous salt water salinity 120,000 PPM Cl.

Lab. No.	Sample	From	To	Source	Remarks
E19534	Water	6689	6720	Elk Point DST #1	Complete analysis

PRESENT STATUS OF WELL

Oil		(Interval)
Gas		(Interval)
Dry	X	5-4-62
		TD 6874'
Susp.		

Company: Pan American Petroleum Corporation

Signed by: W. M. Bogert

Total: Area Superintendent

Date: May 22, 1962

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

File No. -
Drilling Authority No. 111

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is made hereby for approval to abandon, [redacted]

Name and number of well Pan Am Home CSP et al A-1 N. Island R. 0-12

Location: Unit 0 Section 12 Grid 60°30'N 121°00'W

Latitude 60°21'57.2"N Longitude 121°02'36.5"W

From Established Reference Marker 133, 491.5' North and 40,063.3' East of NWT/B.C. Boundary Monument No. 87

Permit No. 1156 Lease No. NA

Home Oil Company Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed programme May 2, 1962

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at None
Gas at None
Water at 6689-6720 DST #1 Rec 5020' sulphurous salt water
Total Depth 6874' Date of last operations Current
Present condition of well Drilling rig over hole.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Sack of Cement	Method	Amount Pulled
1. 13-3/8"	54.5#	1190	1190	1075	2 Plug	--
2.						
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAMME

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	6610-6874	Klk Point-TD	140	Feel after 8 hrs.
2	6060-5960	Slave Point	55	No feel
3	3210-3110	Second Limestone	100	Feel after 8 hrs.
4	1140-1240	Surf. casing shoe	150	Plus 2% $CaCl_2$. Feel after 8 hrs.

The following logs have been run Induction Electric, Gamma Sonic Caliper
Other operations proposed

Operations to be carried out by Peter Bawden Drilling Ltd. Contractor Licence No. 15484
Address 620 - 7th Ave. S.W., Calgary, Alberta Address
Responsible Agent in field Mr. H.E. Bullen c/o Pan American Petroleum Corp., Ft. Nelson, B.C.
Dated at Edmonton, this 3rd Day of May 19 62
Signed by [signature] Company Pan American Petroleum Corporation
Title Area Foreman Exploratory Licence No. 569

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

(For RESOURCES DIVISION use only)

APPROVAL

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

Dated 7th May, 1962 [signature]

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

NANR 52-90 (5) (1-61)

File No.

Drilling Authority No. 111

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

RESOURCES DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is made hereby to amend Drilling Authority No. 111, concerning

Pan Am Home GSP et al A-1 N. Island R. C-12
(Name and Number of Well)

The following amendments are required:

The following should read: Well will be drilled with Rotary Rig No. 8 by Peter Bawden Drilling Ltd. Contractor's Licence No. 15484.

The following did read: Well will be drilled with Rotary Rig No. 2 by Cascade Drilling Co. Ltd. Contractor's Licence No. 15444.

Reasons for the amendments: To report the change of the drilling contractor from the one reported on the Drilling Authority.

Dated at Edmonton, this thirteenth day of March, 1962

Signed by W. M. Bogert

Title Area Superintendent

Company Pan American Petroleum Corporation

(For Resources Division use only)

APPROVED

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

Date 14th March, 1962 B. H. Thorns

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

NANR 52-90(3) (1-61)

File No.

Drilling Authority No. 111

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 Pan Am Home Oil et al A-1 N. Island R. #1

Location: Unit O Section 12 Grid 60° 30', 121° 00'

Latitude 60° 21' 57.2" Longitude 121° 02' 36.5"

From Established Reference Marker 133, 491.5' North & 40,063.3' East of N.W.T./B.C. Boundary Monument No. 87

Elevation: Ground 1747.0' K.B. NA feet above sea-level.

Well is expected to produce from Quartzite Test formation at a depth of about 6930 feet.

Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 1156 Lease No. ~~9142~~ Acreage 31,646

Permittee, licensee, or lessee Home Oil Company Limited

Exploratory Licence No. 569

Surface owned by Crown or Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by Home Oil Company Limited

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. 13-3/8"	54.5#	J-55	-	New	700	To Surface
2.						
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment Quartzite

Drilling mud and blowout preventers.

Well will be drilled with (Rotary) Rig No. 2 by Cascade Drilling Co. Ltd.
~~(Cable)~~ (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Licence No. 1544

At well H. B. Bullen At registered office W. M. Bogert

Address Fort Nelson, B.C. Address 600 Bentall Building, Edmonton, Alta.

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

Dated at Edmonton, this twelfth day of February 19 62

Signed by W. M. Bogert Company Pan American Petroleum Corporation

Title Area Superintendent Licence No. 569

(For Resources Division use only)

APPROVED

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

That "#1" be deleted and "O-12" be inserted so that the well name will be "Pan Home CSP et al A-1 N. Island R. O-12". The Operator will submit at least weekl reports as received by radio to this office on Tuesday of each week.

Dated 14th February 1962 B. H. Toms

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

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

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton — Fort St. John — Calgary

WATER ANALYSIS REPORT

Field N.W.T. Well No. Pan Am Home C.S.P. et al N. Island River 0-12

Operator Pan American Petroleum Corporation Date Received May 18, 1962

Formation Elk Point Depths 6689 - 6720

Other pertinent data Location: Unit O Section 12, Grid 60°30' N, 121°00' W. D.S.T. #1. K.B. 1761, Grd. 1747.6. IHP 3500 psi, ISIP 2655 psi., IFP 1061 psi., FFP 2662 psi., FSIP 2676, FHP 3377. Recovered 200 feet salt water cut mud, 180 feet mud cut salt water, 5020 sulphurous salt water. Bottom sample. Date May 24, 1962 Lab. No. E19534-3 No gas to surface.

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na + K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
53,188	19,071	1,897		123	121,004		390		

MILLIGRAM EQUIVALENTS

2313.70	951.64	155.93		2.56	3412.31		6.40		

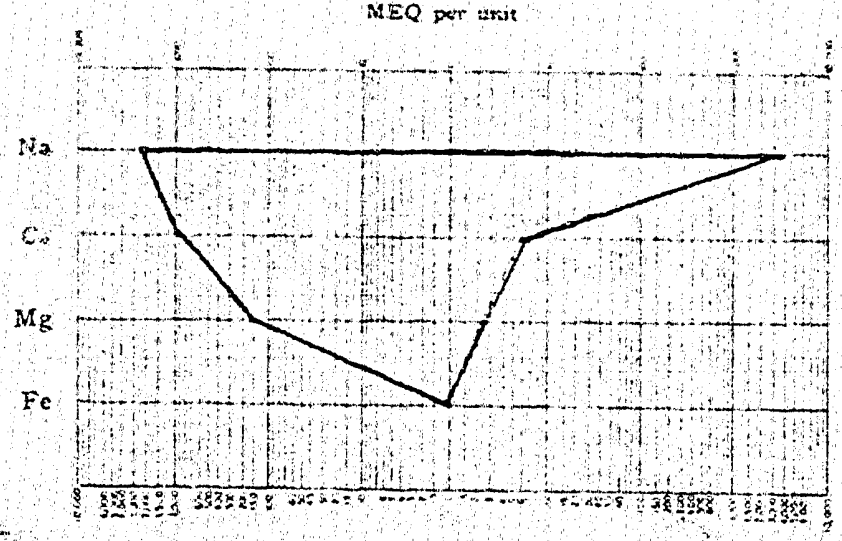
MILLIGRAM EQUIVALENTS IN PERCENT

33.81	13.91	2.28		0.04	49.87		0.09		

Total Solids in Parts per Million		Properties of Reaction in Percent	
By evaporation	220,260	Primary salinity	67.62
After ignition	187,120	Secondary salinity	32.20
Calculated	195,475	Primary alkalinity	---
Specific Gravity	1.132	Secondary alkalinity	0.18
Observed pH	7.2	Chloride salinity	99.92
Resistivity 0.055	ohm meters @ 68° F.	Sulfate salinity	0.08

Remarks and conclusions The general characteristics indicate this sample to be a formation water. There were two samples from the top and middle sampling points. Chloride content determinations were made on each. E19534-1 Top sample. Chloride content 47,970 and 48460 P.P.M.. E19534-2 Middle sample. Chloride content: 118,070 and 118,650 P.P.M..

LOGARITHMIC PATTERN
MEQ per unit



[illegible]
F. R. Allen
L. E. Bibins
E. J. Bunge
G. A. Esher
S. B. Richards (2)
Dept. of Northern Affairs (3)
(1) Signal Oil & Gas Co.
Dome Oil Co. (8)
File (2)

WELL HISTORY REPORT

PAN AM HOME C.S.P. ET AL

A-1 N. ISLAND R. o-12

NORTHWEST TERRITORIES

WELL HISTORY REPORT

P.C. AM HOME C.S.P. ET AL A-1 N. ISLAND R. o-12

Un.o, Sec. 12, 60° 30'N; 121° 00'W.

NORTHWEST TERRITORIES

Pan American Petroleum Corporation
Edmonton, Alberta

June, 1962

I N D E X

Enclosures

Logs - Gamma Sonic Caliper
Induction Electric

Analysis - Water (DST #1)

DST Chart - DST #1

WELL HISTORY REPORT

PAN AMERICAN PETROLEUM CORPORATION

SECTION I - Summary of Well Data

(a) Well Name and Number

Pan Am Home C.S.P. et al A-3 W. Island R. o-12

(b) Permittee

Home Oil Company Limited et al

(c) Name of Operator

Pan American Petroleum Corporation
300 Dentall Building
Edmonton, Alberta

(d) Location

Un. o, Sec. 12, 50° 30'N; 121° 00' E.

60° 21' 37.2"N Lat; 121° 02' 36.5" W. Long.

(e) Co-ordinates

284.3' S. of N. Bdy & 615.1' E. of W. Bdy. of Un.o;sec.12;50°30'N;121°00'W.
137,491.5' N and 40,063.5' E of N T/BC Bdy Monument No.87

(f) Permit & Lease Number

Permit No. 1156; Lease No. 3142

(g) Drilling Contractor

Peter Lawden, Rotary Rig #8, Contract No. 1548;

(h) Drilling Authority

No. 111 - February 14, 1962

(i) Classification

Exploratory

(j) Elevations

Ground 1748' K.B. 1761'

(k) Spudded

March 26, 1962

(l) Completed Drilling

April 28, 1962

(m) Total Depth

6874' - Precambrian

(n) Status

Dry and Abandoned

(o) Rig Release

May 5, 1962

(p) Hole Size

17-1/2"; 8-3/4"

(q) Casing

20" conductor pipe at 40' with 40 sax.

13-3/8" at 1100' with 1075 sax cement plus 2% $CaCl_2$

SECTION II - Geological Summary

(a) Formation Tops

Geologic Tops	Depth	Subsea
Mississippian	1027	+ 136
Banff	2550	- 700
Devonian	2954	- 795
1st Limestone	2642	- 881
2nd Limestone	3158	-1397
Base 2nd Limestone	3777	-2016
3rd Limestone	4197	-2436
May River Shale	4350	-2589
Black Shale	5028	-4167
Slave Point	6004	-4143
Elk Point	6070	-4909
Detrital	6816	-5655
Precambrian or Wash	6861	-5700
Total Depth	6874	-5713

Sample Tops	Depth	Subsea
Mississippian	1624	- 157
Lesbau	2755	- 772
Devonian	2800	- 819
1st Limestone	2839	- 878
2nd Limestone	3138	-1397
3rd Limestone	3190	-2137
May River Shale	4258	-2407
Black Shale	5906	-4115
Slave Point	6018	-4227
Elk Point Dolomite	6693	-4932
Pre Middle Devonian Detrital	6806	-5045
Quartzite	6846	-5085
Granite Wash	6861	-5100
Precambrian	6972	-5111

(b) Cored Intervals

#1 - 6040 - 6042 - Slave Point - Cut 2' - Rec. 6"

#2 - 6042 - 6092 - Slave Point - Cut 50' - Rec. 50'

(c) Core Descriptions

#1 - 6040 - 6042 - Slave Point

Coring Time: 46, 96

6040 - 6042 Limestone, white to dark grey, very fine crystalline, microcrystalline in part, appears to be all recrystallized, very stylolitic, grey color due to black bituminous material between crystals and along stylolites; trace fair to good porosity in suc. limestone, predominantly dense, trace stromatoporoids and amphipora.

#2 - 6042 - 6092 - Slave Point

Coring Time: 10, 15, 16, 16, 15, 15, 15, 12, 12, 14, 12, 11, 12, 12, 9, 8, 14, 10, 10, 9, 8, 14, 10, 10, 10, 10, 10, 8, 9, 9, 9, 7, 10, 9, 9, 9, 9, 10, 9, 9, 9, 9, 9, 9, 9, 10, 10, 9, 9

6042 - 6043 Limestone, light to medium, crypto to microcrystalline, with relic, pelletoidal structure, secondary clear crystal calcite blebs, hard, dense, trace black bituminous material.

6043 - 6044 Limestone, very fine crystalline, as above with stromatoporoid structure - partially obliterated by recrystallization.

6044 - 6045 Limestone, cryptocrystalline, as above, blebs of clear crystalline calcite.

6045 - 6046 Limestone, as above, trace fine granular structure, trace oolites.

6046 - 6047 Limestone, as above.

6047 - 6048 Limestone, as above, trace organic fragments.

6048 - 6049 Limestone, as above, crypto to microcrystalline.

6049 - 6050 Limestone, as above, hard, tight.

6050 - 6051 Limestone, cryptocrystalline, as above, fossil outlines; abundant clear crystal calcite, trace pelletoidal structure.

6051 - 6052 Limestone, as above, pelletoidal structure visible in part.

6052 - 6053 Limestone, as above, trace pellets, trace stylolites with black carbon.

6053 - 6054 Limestone, as above, trace fracturing (vertical) with calcite and carbonate lining.

6054 - 6055 Limestone, as above, pelletoidal in part, trace oolites.

6055 - 6056 Limestone, as above, abundant round and irregular blebs of clear crystal calcite - fractured.

6056 - 6057 Limestone, cryptocrystalline, light to medium grey to brown, dense, flaky, with carbonaceous material, tight.

6057 - 6058 Limestone, as above, pelletoidal in part, abundant stylolites.

6058 - 6059 Limestone, as above.

6059 - 6060 Limestone, as above, stylolitic - trace pelletoidal structure, hard, tight.

6060 - 6061 Limestone, as above, trace pelletoidal structure.

6061 - 6062 Limestone, as above.

6062 - 6063 Limestone, as above, dense.

6063 - 6064 Limestone, as above, pelletoidal in part.

6064 - 6065 Limestone, as above, trace pyrite,

6065 - 6066 Limestone, as above, light to medium grey to brown, crypto-

crystalline, pelletoidal in part, dense, hairline fracture in fill with calcite blebs crystal calcite.

6066 - 6067 Limestone, as above.

6067 - 6068 abundant secondary clear crystal calcite.

6068 - 6069 Limestone, as above, trace pellets - abundant fracture infill with calcite.

6069 - 6070 Limestone, pelletoidal, interbedded with clear calcite, trace organic remains - stromatoporoids???

6070 - 6071 Limestone, as above, abundant stylolites, lined with carbonaceous material.

6071 - 6072 Limestone, as above, but pellets, very vague, trace stromatoporoids.

6072 - 6073 Limestone, as above.

6073 - 6074 Limestone, as above, trace pellets.

6074 - 6075 Limestone, as above.

6075 - 6076 Limestone, as above.

6076 - 6077 Limestone, as above, stylolitic.

6077 - 6078 Limestone, as above, odd trace pellets.

6078 - 6079 Limestone, light to medium grey to brown, abundant pelletoidal structure, clear calcite cement, oolites, abundant clear secondary crystal,calcite.

6079 - 6080 Limestone, as above, only trace pellets and oolites, trace brachiopods?

6080 - 6081 Limestone, as above,

6081 - 6082 Limestone, as above.

6082 - 6083 Limestone, as above, more pellets and oolites visible, organic fragments.

6083 - 6084 Limestone, as above, predominately sublithographic, cryptocrystalline, trace pelletoidal structure.

6084 - 6085 abundant oolites and relic pelletoidal structure.

6085 - 6086 Limestone, as above.

6086 - 6087 Limestone, as above, trace pellets, trace stylolites.

6087 - 6088 Limestone, as above, fractured with pyrobitumen? & calcite infill - trace stylolites.

6088 - 6089 Limestone, as above, abundant stylolites and secondary clear calcite.

6089 - 6090 Limestone, as above, trace pellets.

6090 - 6091 Limestone, as above.

6091 - 6092 Limestone, light to medium grey to brown, sublithographic to cryptocrystalline, trace pelletoidal structure, abundant secondary clear crystal calcite, fracturing filling and large blebs, dense, tight.

Sample Descriptions

0 - 1010 Shale, dark grey, soft, blocky, micro micaceous.

1010 - 1020 Shale, as above, slightly silty.

1020 - 1030 Sandstone, light to medium grey, very fine grain, quartzitic, slightly micaceous, slightly argillaceous, slightly glauconitic.

1030 - 1040 Sandstone, as above with sandstone, white to light grey, quartzitic, very fine grained, calcareous, very slightly glauconitic, tight.

1040 - 1050 Sandstone, white, calcareous, as above.

1050 - 1060 Sandstone, light grey, very fine grained, quartzitic and chert, calcareous, slightly glauconitic, fair cementing, tight.

1060 - 1070 Sandstone, as above.

1070 - 1080 Sandstone, as above, friable in part, with sandstone, light grey, slightly argillaceous, slightly micaceous.

1080 - 1090 Sandstone, as above.

1090 - 1100 Predominantly sandstone, light grey, very fine grained, slightly argillaceous, slightly micaceous, calcareous in part, quartz and chert, fair cementing, tight.

1100 - 1110 Sandstone, as above.

1110 - 1120 Sandstone, as above, trace pyrite, slightly argillaceous in part.

1120 - 1130 Sandstone, light to medium grey, salt and pepper, very fine grained, slightly calcareous in part, carbonaceous partings, slightly micaceous, tight, slightly glauconitic.

1130 - 1140 Sandstone, as above.

1140 - 1150 Sandstone, light grey, very fine grained, quartz, with minor chert, slightly micaceous, slightly argillaceous, trace pyrite, slightly glauconitic.

1150 - 1160 Sandstone, as above.

1160 - 1170 Sandstone, as above, with shale, dark grey, flaky to blocky, silty in part, slightly glauconitic in part.

1170 - 1180 Sandstone and shale, as above (poor sample).

1180 - 1190 Sandstone and shale, as above,(poor sample).

1190 - 1200 Shale, dark grey, blocky to flaky, fissile, contaminated sample.

1200 - 1210 Shale, as above.

1210 - 1220 Shale, as above, very dark grey.

1220 - 1230 Shale, as above, micromicaceous.

1230 - 1240 Shale, as above, very dark grey to black, slightly carbonaceous.

1240 - 1250 Shale, as above.

1250 - 1260 Shale, very dark grey, blocky to splintery, pyrite.

1260 - 1270 Shale, as above.

1270 - 1280 Shale, as above, fissile with dark grey soft, slightly waxy, shale.

1280 - 1290 Shale, as above, trace pyrite.

1290 - 1300 Shale, dark grey to black, flaky, slightly waxy, firm.

1300 - 1310 Shale, as above.

1310 - 1320 Shale, as above, blocky to flaky.

1320 - 1330 Shale, as above.

1330 - 1340 Shale, as above, soft, flaky.

1340 - 1350 Shale, as above.

1350 - 1360 Shale, as above.

1360 - 1370 trace mica.

1370 - 1380 Shale, dark grey, blocky, soft, firm.

1380 - 1390 soft, waxy in part.

1390 - 1400 splintery in part.

1400 - 1420 Shale, as above.

1420 - 1450 Shale, dark grey, blocky to splintery to soft, waxy in part.

1450 - 1490 trace carbonaceous material.

1490 - 1500 Shale, dark grey, blocky, soft,waxy in part-slight trace carbonaceous material.

1500 - 1510 Shale, dark grey, as above, with pyrite and sandstone, very fine grained, white quartzite, clean, slightly calcite in part, micaceous in part.

trace hard, dark grey shale, with white specks(non calcareous).

1510 - 1520 Shale, as above, also dark grey to brown, carbonaceous, with trace sandstone, as above.

1520 - 1530 Shale with trace sandstone, as above.

1530 - 1540 Shale, as above, trace pyrite.

1540 - 1550 Shale, dark grey, blocky with trace carbonaceous fragments, pyrite, and sandstone, white, very fine grained, as above.

1550 - 1560 Shale, as above, dark grey, blocky with trace carbonaceous fragments, pyrite.

1560 - 1570 brownish grey, flaky, with resinous - carbonaceous fragments.

1570 - 1580 trace white calcite, sandstone, as above.

1580 - 1590 Shale, predominately dark to brownish grey, carbonaceous, trace pyrite and secondary calcite, soft, blocky.

1590 - 1600 Shale, as above, with dark grey shale.

1600 - 1610 Shale, dark grey, blocky.

1610 - 1620 Shale, as above.

MISSISSIPPIAN 1624

1620 - 1630 Shale, as above, with trace light grey, calcite, sandstone.

1630 - 1640 Shale, as above, with sandstone, as above, slightly pyritic, slight trace waxy, light green, shale.

1640 - 1650 Shale, with trace sandstone,as above.

1650 - 1660 SS , light grey, very fine grained. quartzite clean, calcite slightly pyritic. tight, trace fossiliferous fragments in sandstone and in secondary calcite laminae.

1660 - 1670 Sandstone, as above, with trace shale, light grey to green calcite.

1670 - 1680 Sandstone, with trace shale, as above.

1680 - 1690 Predominately shale, dark grey, splintery to blocky, with sandstone, as above.

1690 - 1700 Sandstone, light grey, as above, fair cementing, with trace

sandstone, very fine grained, quartzite, clean, calcite, with trace fair intergranular porosity fable.

1700 - 1710 Sandstone, as above, with shale, light grey to green calcite, slightly pyritic.

1710 - 1720 Sandstone, and trace shale, as above.

1720 - 1730 Shale, medium grey, calcite, slightly sandy, soft, trace light grey to green shale, shale and sandstone, as above.

1730 - 1740 Shale, dark grey, splintery, firm.

1740 - 1750 Sandstone, light grey, very fine grained, calcite and shale, light grey to green, calcareous.

1750 - 1760 Sandstone, light to medium grey, very fine grained, calcite, slightly pyritic - hard, quartzite in part, trace crinoids and ostracods.

1760 - 1770 Sandstone, as above.

1770 - 1780 Sandstone, as above, trace crinoids and brachiopods, fragments, ostracods - slightly argillaceous.

1780 - 1790 Shale, light grey to green, calcareous, blocky with trace sandstone, light grey, calc. very fine grained, trace ostracods in shale.

1790 - 1800 Shale, and sandstone, as above, with shale, dark grey, slightly calcareous, blocky to flaky.

1800 - 1810 Sandstone and shale, as above.

1810 - 1820 Shale, dark grey, slightly calcareous, slightly sandy in part, blocky.

1820 - 1830 Shale, as above, with trace light grey to green calcareous, shale.

1830 - 1840 Shale, as above, with shale, light brown, slightly calcareous, blocky, hard.

1840 - 1850 Shale, dark grey, as above.

1850 - 1860 Shale, dark grey, blocky, slightly calcareous in part.

1860 - 1870 Shale, as above.

1870 - 1880 Shale, as bove, splintery, slightly pryitic in part.

1880 - 1890 abundant pyrite.

1890 - 1900 Shale, as above.

1900 - 1930 Shale, as above, trace pyrite.

1930 - 1940 Shale, dark grey, blocky, slightly calcareous in part, abundant sandstone and shale cavings.

1940 - 1950 Shale, as above, with trace light brown, silty-sandy limestone.

1950 - 1960 Shale, as above, with trace limestone, as above, and sandstone, white, very fine grained, calcareous.

1960 - 1970 Shale, with trace limestone, as above.

1970 - 1980 Shale, dark grey, slightly calcareous in part, blocky to flaky.

1980 - 2000 Shale, as above, with trace limestone, light brown, slightly sandy to silty.

2000 - 2010 Shale, with trace limestone, as above.

2010 - 2020 Shale, as above, trace limestone, as above.

2020 - 2030 Shale, dark grey, very slightly calcareous in part, blocky to flaky.

2030 - 2060 Shale, dark grey, as above.

2060 - 2100 Shale, dark grey, very slightly calcareous, in part, blocky to flaky, trace pyrite.

2100 - 2120 Shale, as above, with trace light brown, calcareous siltstone.

2120 - 2130 Shale, as above, with trace siltstone.

2130 - 2160 Shale, dark grey, very slightly calcareous in part, blocky.

2160 - 2200 Shale, dark grey, blocky to flaky to splintery - trace pyrite, very slightly calcareous in part.

2200 - 2230 Shale, medium to dark grey, slightly calcareous, blocky, soft.

2230 - 2240 trace crinoid and pyrite.

2240 - 2280 Predominately medium grey, slightly calcareous, shale, blocky to lumply.

2280 - 2300 Shale, medium to dark grey, slightly calcareous, soft, blocky.

2300 - 2320 Shale, as above, trace pyrite.

2320 - 2340 Shale, as above, trace fossiliferous fragments, crinoids, "pentacrinus".

2340 - 2350 Shale, as above, trace light brown, very fine granular, limestone.

2350 - 2370 Shale, medium to dark grey, very slightly calcareous, blocky, soft, slightly pyritic in part.

2370 - 2380 Shale, as above, trace limestone, light brown, very fine granular soft.

2380 - 2390 Shale, as above, very slightly calcareous in part.

2390 - 2400 Shale, as above, trace brown limestone.

2400 - 2420 splintery in part.

2420 - 2440 trace pyrite.

2440 - 2470 Shale, medium to dark grey, very slightly calcareous in part, fissil, soft, blocky.

2470 - 2480 Shale, medium grey, calcareous, blocky.

2480 - 2490 Shale, as above, with trace limestone, light brown, very fine granular crystalline, pyrite.

2490 - 2500 Shale, as above, with lenses, limestone, medium grey, argillaceous, slightly silty, very fine granular.

2500 - 2510 Shale, dark grey, slightly silty, blocky to flaky, very slightly calcareous in part.

2510 - 2530 Shale, medium to dark grey, bitumen, blocky, soft. hard, with chert, dark brown, (possibly very siliceous shale) pyritic in part.

2530 - 2540 Shale, as above, calcareous in part.

EXSHAW 2535

2540 - 2550 Shale, as above, with shale, medium grey, blocky to splintery, trace pyrite, slightly calcaroous(prob cave).

2550 - 2580 Predominately dark brown, shale, bitumen, flaky to hard, blocky, with dark brown, pyrite, chert.

DEVONIAN 2580

2580 - 2590 Shale, medium grey, blocky to splintery, with trace light grey to green, slightly calcareous, splintery shale.

2590 - 2600 Shale, light to medium grey, slightly calcareous, blocky, trace pyrite.

2600 - 2610 Shale, as above.

2610 - 2630 Shale, as above, with shale, medium to dark grey, splintery.

1ST LIMESTONE 2639

2630 - 2640 Shale, light to medium grey, slightly calcareous, blocky, trace crinoid with slight trace limestone, fine crystalline, very fine granular, white to cream, dense, slightly silty in part.

2640 - 2650 Limestone, cream, cryptocrystalline, dense, chalky in part, trace secondary calcite, trace pyrite, trace crinoid stems.

2650 - 2660 Limestone, as above, very fine granular texture in part. trace crinoidal fragments, secondary clear crystal calcite blebs, tight.

2660 - 2670 Limestone, as above, trace crinoids.

2670 - 2680 Limestone, as above, granular texture in part.

2680 - 2700 Limestone, light grey to cream, crypto to microcrystalline, granular texture in part, dense, trace crinoids, trace secondary crystal calcite - chalky in part.

2700 - 2710 Shale, light to medium grey, blocky, slightly calcareous, with trace limestone, as above.

2710 - 2720 Shale, with limestone, as above.

2720 - 2730 Shale, with limestone, cream, grain, bioclastic, crinoid, gastropod, dense, trace pyrite.

2730 - 2740 Shale, with limestone, as above.

2740 - 2750 Shale, with limestone, as above, trace brachiopod fragments.

2750 - 2770 Shale, light to medium grey, blocky, slightly calcareous, with limestone, cream to light brown, bioclastic in part, very fine granular crystalline, dense, chalky in part.

2770 - 2780 Shale, as above, trace pyrite.

2780 - 2790 Shale, light grey, calcareous, blocky, fissil, soft, firm, trace pyrite.

2790 - 2800 Shale, as above, with trace bioclastic, cream, limestone,

2800 - 2810 Shale, with limestone, as above.

2810 - 2820 Shale, light grey, calcareous, with limestone, light grey, very fine crystalline, granular, bioclastic in part, dense, crinoids and brachiopods.

2820 - 2830	Shale, as above with abundant cavings.
2830 - 2840	Shale, as above, with limestone, much cavings.
2840 - 2850	Shale, light to medium grey, calcareous, blocky.
2850 - 2870	Shale, light grey, calcareous, soft, blocky, lumpy, fissile.
2870 - 2910	Shale, light grey, soft, calcareous, blocky, slightly pyritic, trace crinoids.
2910 - 2920	Shale, light grey to greenish grey, calcareous, soft, blocky, fissile, trace pyrite, trace crinoids and pelecypods.
2920 - 2930	Shale, as above, with limestone, very fine granular crystalline, light grey, fossiliferous, gastropods, crinoids, soft.
2930 - 2940	Shale, with limestone, as above, light grey, slightly argillaceous, dense.
2940 - 2950	Shale, light grey, calcareous, with trace limestone, as above.
2950 - 2960	Shale, with trace limestone, as above, pyritic.
2960 - 2990	Shale, light grey, calcareous blocky.
2990 - 3000	Shale, as above, with trace limestone, light grey, very fine granular, stringers.
3000 - 3020	Shale, light to medium grey to greyish green, calcareous, blocky, trace crinoids.
3020 - 3030	Shale, as above with trace limestone.
3030 - 3040	Shale, as above, trace crinoids, pelecypods and pyrite.
3040 - 3050	abundant pyrite.
3050 - 3070	Shale, light grey, calcareous, soft, blocky, slightly pyritic.
3070 - 3080	abundant crinoids throughout.
3080 - 3100	Shale, as above, light grey, calcareous, fissile, blocky, soft, crinoids.
3100 - 3140	Shale, light grey, calcareous, soft, fissile, blocky, trace pyrite, throughout, trace crinoid stems.
3140 - 3160	Shale, as above, trace crinoids.
	SECOND LIMESTONE 3158

3160 - 3170 Shale, light grey, very slightly calcareous, soft, blocky, fissile, trace crinoids, pelecypods and pyrite, through out.

3170 - 3180 Limestone, light grey, micro to very fine crystalline, granular in part, bioclastic in part, crinoids, brachiopods, trace pyrite - very slightly argillaceous.

3180 - 3190 Limestone, as above, with secondary crystalline, calcite,blebs, slightly chalky in part.

3190 - 3200 Limestone, as above, light grey to light brown, very fine crystalline, granular, dense, slightly argillaceous in part, trace crinoids and brachiopods.

3200 - 3210 Limestone, as above, cryptocrystalline,in part dense.

3210 - 3220 Limestone, crypto to very fine crystalline, granular texture in part, cream to light brown, dense, slightly argillaceous in part, trace crystalline calcite, vuggy lining, trace crinoids.

3220 - 3230 Limestone, as above, trace pyrite.

3230 - 3240 Limestone, predominately light brown, microcrystalline, dense, trace pyrite, secondary calcite.

3240 - 3250 Limestone, cryptocrystalline, very fine crystalline, light brown to cream, chalky in part, trace bituminous partings.

3250 - 3260 Limestone, as above, with light grey to brown, microcrystalline, argillaceous, limestone, soft.

3260 - 3290 Limestone, cream to light brown, microcrystalline, dense, trace secondary calcite and crinoid fragments, with shale, medium grey to brown, calcareous, soft, flaky, slightly fossiliferous, crinoids.

3290 - 3310 Limestone, crypto to microcrystalline, cream to light brown, dense, granular, bioclastic in part, trace crinoids, pyrite, secondary calcite, vuggy fracture filling.

3310 - 3320 trace secondary calcite.

3320 - 3330 Limestone, as above, chalky in part.

3330 - 3340 Limestone, cream, as above.

3340 - 3350 Limestone, light brown to cream, crypto to very fine crystalline, dense, chalky in part, slightly argillaceous in part, trace crinoids.

3350 - 3360 Limestone, as above, with shale, light to medium greyish green, calcareous, splintery to blocky.

3360 - 3370 Predominately shale, medium grey to green, calcareous, as above.

3370 - 3380 Shale, as above, with minor limestone, cream, dense.

3380 - 3390 Shale, light to dark grey to green, calcareous, trace pyrite, splintery to blocky, trace fossiliferous fragments.

3390 - 3400 Shale, as above, with trace limestone, cream, chalky, cryptocrystalline, dense.

3400 - 3410 Limestone, cream to light brown, microcrystalline, dense, chalky in part, with shale, as above.

3410 - 3420 Limestone, as above, slightly argillaceous in part.

3420 - 3430 Limestone, cryptocrystalline, chalky, cream as above, and very fine crystalline to granular, light brown, very sandy, limestone and light brown, very calcareous, very fine granular sandstone.

3430 - 3440 Limestone, as above, silty to sandy in part, abundant cavings.

3440 - 3450 Limestone, cream, chalky with silty to sandy limestone and sandstone, very fine grained, calcareous, pyritic.

3450 - 3460 Limestone, light grey to brown, cream, cryptocrystalline, chalky in part, trace crinoid with trace sandstone, as above.

3460 - 3470 Limestone, and shale, as above, trace crinoids.

3470 - 3480 Limestone, and shale, as above.

3480 - 3490 Predominately, shale, light grey to greyish green, calcareous, blocky to splintery (after trip).

3490 - 3500 Limestone, as above, with shale, light to medium greyish green, slightly calcareous, blocky to splintery.

3500 - 3510 Limestone, as above, cryptocrystalline, in part, dense, with shale, as above, trace pyrite.

3510 - 3520 Limestone, and shale, as above, trace crinoids.

3520 - 3530 Limestone, and shale, as above.

3530 - 3540 Predominately shale, light grey to greyish green, calcareous, blocky to splintery (after trip).

3540 - 3550 Shale, as above, trace brachiopods fragments and crinoids.

3550 - 3560	Shale, as above, with trace very dark grey shale, fissile, blocky to splintery.
3560 - 3570	Shale, as above, light to medium greyish green, calcareous, with limestone, cream, light grey, very fine granular in part, crypto crystalline, slightly sandy, slightly argillaceous, dense.
3570 - 3580	Limestone, cream, cryptocrystalline, sandy, slightly argillaceous, very fine granular in part, trace pyrite.
3580 - 3590	Sandstone, light brown, light grey, very fine grained, quartzitic, very calcareous, well cemented, argillaceous in part.
3590 - 3600	Sandstone, as above, medium brown, argillaceous, in part, with trace of brown silt, calcareous, shale, trace pyrite.
3600 - 3610	Sandstone, as above, with limestone, cream to light brown, cryptocrystalline dense, slightly sandy.
3610 - 3620	Sandstone, and limestone, as above.
3620 - 3630	Sandstone, light grey to light brown, very fine grained, clean, quartz, very calcareous, friable in part, pyrite.
3630 - 3640	Sandstone, as above, with siltstone, light to medium grey, green, calcareous, argillaceous, slightly pyritic.
3640 - 3650	Sandstone, as above, light grey to greyish green, very fine grained, quartz, slightly argillaceous in part, well cemented, tight with trace siltstone, as above.
3650 - 3670	Sandstone, as above.
3670 - 3680	Sandstone, as above, friable in part.
3680 - 3690	Sandstone, light grey to greyish green, very fine grained, very calcareous, clean, quartz, trace chert? grains, slightly argillaceous in part, slightly pyritic in part, friable, well cemented.
3690 - 3700	Sandstone, as above, trace fossiliferous fragments.
3700 - 3710	Sandstone, as above.
3710 - 3720	Sandstone, as above, very fine grained, very calcareous, well cemented, dense, slightly pyritic.
3720 - 3730	Sandstone, as above, with trace chalky, cream, limdstone.

3730 - 3740	Sandstone, as above, with trace shale, medium grey to green, calcareous, slightly silty.
3740 - 3750	Sandstone, as above, with limestone, cream, cryptocrystalline, dense, slightly sandy in part, trace secondary calcite crystals, chalky in part.
3750 - 3760	Sandstone, light grey, very calcareous, very fine grained, with limestone, as above, and shale, medium greyish green, calcareous, blocky to splintery.
3760 - 3770	Shale, medium greyish green, slightly calcareous, blocky, splintery, silty in part, with limestone cream, cryptocrystalline, granular texture in part, crinoids.
3770 - 3780	Shale, light to medium grey to green, calcareous, blocky, splintery, soft, with trace limestone, as above.
3780 - 3790	Shale, as above.
3790 - 3810	Shale, as above, soft, waxy in part.
3810 - 3820	Shale, as above, with trace limestone, cream, very fine crystalline, granular, soft, slightly pyritic.
3820 - 3830	Shale, with limestone, light grey, very fine crystalline, dense, with trace fossiliferous fragments.
3830 - 3840	Shale, as above, light to medium grey to green, calcareous, blocky to splintery, flaky, to soft, waxy in part with trace limestone.
3840 - 3850	Shale, as above, with trace light grey cryptocrystalline, slightly pyritic, limestone.
3850 - 3860	Shale, as above, with trace limestone.
3860 - 3870	Shale, as above, with trace limestone, light grey, cryptocrystalline, slightly argillaceous (poor sample).
3870 - 3880	Shale, as above.
3880 - 3890	Shale, light to medium grey to green, slightly calcareous, blocky, splintery, slightly pyritic, trace brachiopods and crinoids with trace limestone.
3890 - 3900	Shale, with trace limestone, as above.
3900 - 3910	Shale, with trace limestone, light grey, cryptocrystalline, dense, hard.
3910 - 3930	Shale, with limestone, as above.
3930 - 3940	Shale, as above, slightly calcareous, light to medium greyish green.
3940 - 3960	Shale, light to medium greyish green, calcareous, soft, blocky to splintery, trace pyrite, trace crinoid.

3960 - 3980 Shale, as above, slightly calcareous.

3980 - 3990 Shale, as above, with trace, limestone, light brown, grey, very fine to fine crystalline, dense, slightly pyritic.

3990 - 4000 Shale, as above, with trace, very light greyish green, calcareous, splintery, shale.

4000 - 4010 Shale, as above, with trace limestone, very fine crystalline, light grey to brown, dense, vitreous.

4010 - 4020 Shale, medium grey to greyish green, predominately calcareous, trace crinoids.

4020 - 4030 Shale, with trace limestone, light grey to brown, as above.

4030 - 4040 Shale, as above, slightly calcareous in part.

4040 - 4060 Shale, as above, blocky to splintery, calcareous in part, slightly harder than above.

4060 - 4080 Shale, with trace limestone, as above.

4080 - 4090 Shale, light to medium greyish green, slightly calcareous in part, blocky to splintery, soft, waxy in part, trace crinoids and ostracods, slightly trace pyrite.

4090 - 4100 Shale, as above, with trace limestone, light grey to brown, very fine crystalline, dense, hard, trace pyrite.

4100 - 4130 Shale, as above, generally non-calcareous.

4130 - 4170 Shale, as above, trace pyrite (poor sample after trip).

4170 - 4180 Shale, as above, with trace limestone, light grey, very fine to fine crystalline, dense.

THIRD LIMESTONE 4198

4180 - 4190 Shale, medium greyish to green, non-calcareous, blocky to splintery, soft, waxy in part, trace crinoids.

4190 - 4210 Shale, as above, with limestone, micaceous to very fine crystalline, cream, light brown, dense, chalky in part, trace ostracoids, gastropods, trace pyrite.

4210 - 4220 Limestone, cream to tan, very fine to fine crystalline, granular in part, chalky in part, trace pyrobitumen, trace pyrite, trace poor intercrystalline porosity, in suc. limestone.

4220 - 4230 Limestone, tan to medium brown, very fine to fine crystalline, chalky in part, suc in part, trace stylolites, poor to fair intercrystalline porosity with dead oil stain, predominately tight.

4230 - 4240 Limestone, as above, medium crystalline in part, dense, trace ostracods, and pyrite.

4240 - 4250	Limestone, light brown, predominately, very fine crystalline to granular, suc.., chalky in part, with trace pin point porosity, minor microcrystalline, dense, limestone.
4250 - 4260	Limestone, as above, with shale, medium grey to green, non-calcareous, blocky to splintery.
4260 -	HAY RIVER SHALE 4258
4260 - 4270	Shale, as above, with trace limestone, light brown, very fine crystalline to granular, suc-chalky.
4270 - 4280	Shale, as above, poor sample.
4280 - 4290	Shale, light to medium grey to green, slightly calcareous in part, fissile, blocky to splintery.
4290 - 4300	Shale, as above, with trace limestone, light grey, cryptocrystalline, slightly argillaceous, dense, soft.
4300 - 4330	Shale, with trace limestone, light grey, very fine crystalline, slightly pyrite, trace brachiopods.
4330 - 4340	Shale, as above, with trace limestone, very fine crystalline, light grey, dense, hard.
4340 - 4350	Shale, light to medium greyish green, slightly calcareous in part, blocky to splintery.
4350 - 4360	Shale, as above, very slightly pyritic.
4360 - 4370	Shale, as above.
4370 - 4380	Shale, as above, with trace limestone, light grey, very fine crystalline, dense, slightly pyritic.
4380 - 4400	Shale, medium grey, to greyish green, slightly calcareous, in part, blocky to splintery, soft, slightly waxy in part, trace crinoids.
4400 - 4420	Shale, medium grey to greyish green, generally non-calcareous, blocky to splintery.
4420 - 4440	Shale, as above, trace pyrite.
4440 - 4460	Shale, as above, soft, lumpy, slightly calcareous in part.
4460 - 4480	Shale, as above, with trace limestone, light grey to green, slightly silty, slightly argillaceous.
4480 - 4490	Shale, medium greyish green, slightly calcareous in part, trace silty limestone, as above.
4490 - 4500	generally non-calcareous.
4500 - 4510	Shale, with trace limestone, light grey to brown, very fine to fine crystalline, dense, slightly pyritic.

4510 - 4520 Shale, as above, with trace limestone, as above.

4520 - 4540 Shale, medium grey to green, slightly calcareous in part, trace pyrite, blocky to splintery.

4540 - 4550 Shale, as above, with limestone, light grey, slightly sandy, microcrystalline, tight, trace pyrite.

4550 - 4560 Shale, as above, with limestone, as above, sandstone, fine grained, light grey, quartz, calcareous, with pyrobitumen? hard.

4560 - 4570 Shale, limestone, and sandstone, as above.

4570 - 4580 Sandstone, fine grained, medium grey, to green to brown, quartz, calcareous, carbonaceous, fragments, quartz grains tinted brown, argillaceous, in part, subangular to subrounded, poor to fair staining with trace sandy limestone.

4580 - 4590 Sandstone, with limestone, slightly pyritic, as above, trace flaky, soft, micaceous light green shale.

4590 - 4600 Shale, as above, with trace limestone and sandstone.

4600 - 4610 Sandstone, as above, very fine grained, predominately dark grey, slightly calcareous and argillaceous in part, quartzitic in part, brown in part, trace mica.

4610 - 4620 Sandstone, as above, with medium grey to green, slightly calcareous, argillaceous, sandstone.

4620 - 4630 Sandstone, as above, with shale, medium grey to green, blocky, slightly calcareous.

4630 - 4650 Shale, as above, silty to sandy in part, micaceous.

4650 - 4660 Shale, as above, with dark grey, soft, waxy shale and sandstone, as above.

4660 - 4680 Shale, medium, dull, grey to green, slightly sandy, slightly calcareous in part, splintery to flaky, with trace sandstone, as above.

4680 - 4690 Shale, as above, with trace argillaceous, slightly calcareous, grey to green, very fine grained sandstone.

4690 - 4700 Shale, with sandstone, as above.

4700 - 4710 Sandstone, light grey, very fine grained, quartz, calcareous, trace carbonaceous particles, hard, tight, grey to green, slightly argillaceous in part, slightly micaceous.

4710 - 4720 Sandstone, as above with limestone, light grey to brown, crypto to very fine crystalline, dense, slightly sandy, trace pyrite.

4720 - 4740	Sandstone, light grey to greyish green, quartz, calcareous, slightly argillaceous in part, slightly micaceous in part, tight with shale, medium grey to green, slightly calcareous, blocky to flaky.
4740 - 4750	Sandstone, and shale, as above, with trace grey, microcrystalline, limestone, slightly sandy.
4750 - 4760	Shale, light to medium grey to green, calcareous, blocky to splintery with trace sandstone, as above.
4760 - 4770	Shale, with sandstone, as above, trace slickensides in shale.
4770 - 4780	Shale, and sandstone, interbedded, as above.
4780 - 4790	Shale, as above, blocky to splintery.
4790 - 4800	Shale, medium grey to green, blocky to splintery to flaky, with sandstone, light to medium grey to green, calcareous, very fine grained, quartz, slightly argillaceous.
4800 - 4810	Sandstone, and shale, as above.
4810 - 4820	Shale, with sandstone, as above, hard, quartzitic, in part.
4820 - 4830	Shale, and sandstone, as above.
4830 - 4840	Shale, medium grey to green, slightly calcareous, blocky to splintery, with sandstone, light to medium grey to green, very fine grained, slightly argillaceous, slightly micaceous, grading to light grey, slightly calcareous, slightly pyritic, hard, sandstone.
4840 - 4850	Shale, with abundant sandstone.
4850 - 4860	Shale, as above, trace crinoids, with sandstone, light to medium grey to greyish green, calcareous.
4860 - 4870	Sandstone, light grey to greyish green, very fine grained, calcareous, slightly argillaceous, in part, slightly micaceous, trace pyrite, well cemented, hard, dense, quartzitic, in part.
4870 - 4880	Sandstone, as above, with shale, medium grey to green, slightly calcareous.
4880 - 4890	Sandstone and shale, as above.
4890 - 4900	Shale, trace fossiliferous fragments, with sandstone, as above.
4900 - 4910	Shale, and sandstone, as above.
4910 - 4920	Shale, with trace sandstone, as above.
4920 - 4940	Shale, and sandstone, as above, with trace limestone, light grey to cream, dense, cryptocrystalline, slightly fossiliferous, slightly sandy.

4940 - 4950	Shale, with trace sandstone, as above.
4950 - 4960	Shale, medium grey to green, slightly calcareous in part, with trace sandstone, as above.
4960 - 4970	Shale, as above, with trace sandstone, (after trip).
4970 - 4980	Shale, light to medium grey to green, sandy in part, very slightly calcareous in part, blocky to splintery.
4980 - 4990	Shale, as above, with slightly calcareous, sandy, micaceous streaks - trace limestone, light brown, microcrystalline, dense, trace fossiliferous.
4990 - 5000	Shale, light to medium grey to green, soft, as above.
5000 - 5010	Shale, as above, trace pyrite.
5010 - 5040	Shale, generally not calcareous, otherwise as above.
5040 - 5060	Shale, as above, light to medium grey to green, slightly micaceous, soft.
5060 - 5070	Shale, medium grey to green slightly calcareous, blocky to splintery, slightly micaceous, soft.
5070 - 5080	Shale, as above, slightly sandy in part.
5080 - 5090	Shale, as above, very slightly calcareous.
5090 - 5100	Shale, as above, generally non-calcareous.
5100 - 5120	Shale, as above, soft, blocky, very slightly calcareous in part.
5120 - 5140	Shale, as above, fissile, trace pyrite.
5140 - 5190	Shale, light to medium green to grey, non-calcareous, fissile, blocky to splintery to flaky, trace micaceous, soft.
5190 - 5220	Shale, as above, medium green to grey, soft, non-calcareous, fissile, blocky to splintery, slightly micaceous - trace pyrite.
5220 - 5230	Shale, as above, trace fossiliferous fragments.
5230 - 5250	Shale, as above, trace slickensides.
5250 - 5260	Shale, as above, trace sandy, slightly calcareous, shale.
5260 - 5270	Shale, as above.
5270 - 5280	Shale, as above.
5280 - 5290	Shale, medium grey to greenish grey, non-calcareous, soft, fissile, slightly waxy in part, blocky to flaky, slightly micaceous, trace pyrite.

5290 - 5320	Shale, as above, blocky to splintery to flaky.
5320 - 5330	Shale, medium grey to green, as above.
5330 - 5350	Shale, as above, trace slickensides.
5350 - 5360	Shale, as above, with trace limestone, light grey, microcrystalline, soft, dense.
5360 - 5370	Shale, medium grey to greenish grey, non-calcareous, soft, blocky to splintery to flaky, slightly micaceous, trace pyrite.
5370 - 5380	Shale, as above, with trace calcareous, argillaceous, very fine grained, sandstone streaks, very micaceous.
5380 - 5410	Shale, as above, light to medium greenish grey, soft, blocky.
5410 - 5420	Shale, as above, trace crinoids, slight trace secondary brown calcite.
5420 - 5440	Shale, as above, gastropods.
5440 - 5450	Shale, as above, medium green to grey, soft, blocky, slightly micaceous, trace pyrite.
5450 - 5470	Shale, as above, blocky to splintery.
5470 - 5490	Shale, as above, with trace limestone, light to medium brown, very fine to fine crystalline, dense, soft, chalky in part.
5490 - 5520	Shale, medium grey to green to grey, soft, fossiliferous, as above.
5520 - 5540	Shale, medium grey, soft, blocky, as above.
5540 - 5550	Shale, as above, with trace limestone, medium grey, cryptocrystalline, dense.
5550 - 5560	Shale, medium grey, non-calcareous, soft, fissile, blocky to splintery to flaky to slightly micaceous, occasional pyrite.
5560 - 5570	Shale, as above, trace fracturing with clear calcite infill.
5570 - 5580	Shale, as above, trace slickensides.
5580 - 5610	Shale, as above, gastropods.
5610 - 5620	Shale, as above, trace sandstone stringers, very fine grained, calcareous, slightly argillaceous.
5620 -5630	Shale, medium grey, fissile, soft, blocky, slightly micaceous, trace pyrite.

5630 - 5650	Shale, as above, blocky to splintery to trace secondary calcite.
5650 - 5670	Shale, as above, with trace limestone, light grey, microcrystalline, dense.
5670 - 5680	Shale, as above, trace fracturing, infill with calcite.
5680 - 5710	Shale, medium grey, soft, blocky to splintery, slightly micaceous, trace pyrite.
5710 - 5720	Shale, as above, soft, slightly waxy in part.
5720 - 5750	Shale, with trace limestone, cream to light grey, microcrystalline, soft.
5750 - 5760	Shale, medium to dark grey, blocky to splintery to slightly micaceous in part.
5760 - 5770	Shale, as above, predominately medium grey, soft, blocky.
5770 - 5800	Shale, as above, trace slickensides.
5800 - 5810	Shale, as above, medium grey, blocky to splintery, slightly micaceous, in part soft, waxy, trace pyrite.
5810 - 5820	Shale, as above.
5820 - 5830	Shale, as above, soft, trace fossiliferous fragments.
5830 - 5840	Shale, as above, trace pyrite.
5840 - 5860	Shale, as above, trace soft, dark grey shale.
5860 - 5870	Shale, as above, with trace soft, fissile, dark grey, shale.
5870 - 5880	Shale, as above, with shale, dark grey, streaky, soft, fissile, flaky.
5880 - 5890	Shale, as above, with shale, dark grey, streaked with black, as above.
5890 - 5900	Shale, dark grey, as above, slightly micaceous.
	BLACK SHALE 5906
5900 - 5910	Shale, medium to dark grey, as above.
5910 - 5920	Shale, dark grey to black, fissile, soft, waxy, bitumen in part, blocky, trace pyrite.
5920 - 5930	Shale, dark grey to black, fissile, bituminous in part, blocky, abundant cavings.
5930 - 5950	Shale, as above, (very poor sample - abundant cavings).
5950 - 5970	Trace shale, as above, predominately cavings.

5970 - 5990 Shale, black fissile, blocky, bituminous, trace pyrite.

5990 - 6000 Shale, as above, black, bituminous, calcareous, in part, blocky, pyrite, trace fracturing, infill with calcite.

6000 - 6010 Shale, black, bituminous, calcareous, pyrite, as above, with trace limestone, tan, very fine crystalline, soft, pyrite, as thin stringers in shale.

6010 - 6040 Shale, as above, with limestone, cryptocrystalline, light to medium brown, chalky in part, dense, with trace clear crystalline calcite & pyrobitumen, vuyy, and fracturing

SLAVE POINT 6018

fillings, trace medium brown, fine to medium crystalline, limestone with pyrobitumen infill, intercrystalline, pore spaces, sublithographic in part, trace stylolites, lined with pyrobitumen, fair amount fracturing, vugs either completely filled or lined with clear crystalline calcite and pyrobitumen.

6040 - 6042 Core #1 - see core descriptions (Page 3)

6042 - 6092 Core #2 - see core descriptions (Page 3)

6092 - 6100 Limestone, crypto to microcrystalline, light to medium brown, dense, trace pelletoidal limestone, chalky in part, trace stylolite.

6100 - 6110 Limestone, as above, tight.

6110 - 6120 Limestone, as above, abundant, clear secondary calcite, trace pyrite.

6120 - 6130 Limestone, light to medium grey to brown, crypto to microcrystalline, dense, trace pellets, trace stylolites, secondary clear crystalline, calcite blebs, chalky in part with bituminous partings.

6130 - 6140 Limestone, as above abundant secondary calcite.

6140 - 6160 Limestone, crypto to microcrystalline, tight, as above.

6160 - 6170 Limestone, as above, abundant stylolites lined with carbonate, trace pyrite.

6170 - 6180 Limestone, light to medium grey to brown, chalky, tan in part, crypto to microcrystalline, slightly vitreous, dense, trace stylolites, fractures.

6180 - 6200 Limestone, as above, predominately medium brown, cryptocrystalline, vitreous, dense, fairly highly fractured.

6200 - 6210 Limestone, as above, with trace light grey limestone, cryptocrystalline, argillaceous, dense.

6210 - 6220 Limestone, tan, chalky, to medium grey to brown, crypto-crystalline, trace pyrite, dense, with trace shale, dark grey, blocky, slightly calcareous, (after trip).

6220 - 6230 Limestone, as above, with trace shale, (abundant cavings).

6230 - 6240 Limestone, crypto to very fine crystalline, light grey to light brown, cream, chalky in part, dense, soft, re-crystalized in part, abundant secondary calcite.

6240 - 6250 Limestone, predominately, cryptocrystalline, light grey to dark brown, dense, vitreous, fracturing, cream to tan, chalky in part.

6250 - 6260 Limestone, as above, dense, light to dark brown, fractured, trace stylolites and pyrite.

6260 - 6270 Limestone, tan, chalky as above, to light grey to brown, very fine to fine crystalline, dense, minor dark brown limestone, trace bituminous partings, pyrite.

6270 - 6280 Limestone, as above, with trace black, calcareous, blocky to flaky shale.

6280 - 6290 Limestone, as above, with trace shale, as above, and lime-stone, cryptocrystalline, dark brown to black, dense, argillaceous in part, trace pyrite.

6290 - 6300 Limestone, as above, with light brown to dark brown, argillaceous, chalky limestone, trace dark brown bituminous partings.

6300 - 6310 Limestone, medium to dark grey to brown, crypto to very fine crystalline, chalky in part, suc. in part, trace pin point porosity, dark brown bituminous partings, brachiopods, crinoids, texture.

6310 - 6320 Limestone, as above, tan chalky in part to black, bituminous, calcareous, shale partings.

6320 - 6330 Limestone, as above, trace stylolites, trace pyrite.

6330 - 6340 Limestone, predominately medium brown to dark grey, crypto to microcrystalline, argillaceous chalky in part, dense, with trace brachiopods and crinoids.

6340 - 6370 Limestone, as above, trace crinoids and pyrite.

6370 - 6380 Limestone, as above, with tan, chalky limestone.

6380 - 6390 Limestone, cream to tan, micro to very fine crystalline, dense, chalky in part, soft, trace secondary clear crystalline, calcite, pyrite.

6390 - 6400 Limestone, as above, fine crystalline in part, abundant secondary clear crystalline, calcite.

6400 - 6410 Limestone, as above, trace pyrite.

6410 - 6420 Limestone, as above cream to tan, clean, micro to very fine crystalline, abundant secondary clear crystalline, calcite, chalky in part, trace fractures, tight.

6420 - 6430 Limestone, light to dark brown, crypto to very fine crystalline, cream, chalky in part, dense, fine, tight, trace pyrite, black bituminous shale partings, trace spacing of calcite, blebs and fractures.

6430 - 6440 Limestone, as above, predominately medium to dark brown, cryptocrystalline, dense, vitreous, fracturing, slightly argillaceous.

6440 - 6450 Limestone, as above.

6450 - 6460 Limestone, as above, trace pyrite.

6460 - 6470 Limestone, as above, tan, chalky in bituminous partings, in part, trace pyrite, crinoids, bituminous partings.

6470 - 6480 Limestone, crypto to microcrystalline, medium to dark brown, dense, vitreous, slightly argillaceous, fractured with chalky, light grey to dark brownish grey, soft, limestone.

6480 - 6490 Limestone, as above, tan, very fine crystalline in part, slightly suc.

6490 - 6500 Limestone, predominately medium to dark brown, crypto to microcrystalline, dense, vitreous, granular to suc. fine crystalline, in part slightly argillaceous, with black bituminous shale partings, trace pyrite.

6500 - 6510 Limestone, brown to very dark brown, medium to very fine calcarenite, quite argillaceous, and fragments, pyrite, trace splintery calcite, bituminous zones, tight, with black bituminous shale.

6510 - 6520 Limestone, brown to very dark brown, as above, few fragments, fine to very fine calcarenite, appearing chalky, probably crushed by bitumen, tight.

6520 - 6530 Limestone, brown to very dark brown, as above, tight, may be coral fragments, few patches lime mud.

6530 - 6540 Limestone, as above, brown coarse to very fine calcarenite, pyrobitumen,material infill voids between grains, splintery calcite, abundant, trace crinoids and brachiopods, black shale partings.

6550 - 6560 Limestone, brown, as above, amphipora, brachiopods and stroms, fragments, tight, some very argillaceous, rich brachiopods, tight.

6560 - 6570 Limestone, brown as above, abundant brachiopod fragments, some very dark brown to black, very bituminous, tight.

6570 - 6580 Limestone, brown, as above, few stroms and brachiopods, some very bituminous, secondary splintery calcite infill voids, tight, scattered pyrobitumen.

6580 - 6590 Limestone, light brown, some very dark brown to black medium to very fine calcarenite, some very argillaceous, clean limestone, abundant pyrobitumen, pyrite, tight, brachiopods, splintery calcite.

6590 - 6600 Limestone, light brown to dirty white, as above, very clean, tight, much shale cavings, course to fine calcarenite, few coral fragments, pyrobitumen.

6600 - 6610 Limestone, light buff to dark brown, fine calcarenite, with splintery calcite, cement, dirty sample, abundant pyrobitumen, bit. styl, trace lime mud.

6610 - 6620 Limestone, as above, trace stroms. with abundant very dark brown to black bituminous limestone, and black bituminous shale, badly caved.

6620 - 6630 Limestone, black to very dark brown, very fine calcarenite, lime mud, poor sorting, appearing slightly rext. abundant crinoid debris, scattered brachiopods, tight, bituminous shale partings?

6630 - 6640 Limestone, black, as above, very crinoidal and bituminous partings, bituminous shale partings.

6640 - 6650 Limestone, very dark brown to black, as above, very argillaceous and bituminous, tight, numerous black bituminous shale partings.

6650 - 6660 Limestone, dark brown to black, as above, black, very argillaceous and bituminous, tight, abundant crinoid debris, tight, numerous black bituminous shale partings.

6660 - 6670 Limestone, dark brown, as above, trace black limestone, as above, with shale partings, tight, trace brachiopod debris.

6670 - 6680 Limestone, black to light brown, as above, light brown, slightly argillaceous, tight. - trace brachiopod fragments, trace pyrite.

6680 - 6690 Limestone, light brown, lime, silty mud, tight, slightly argillaceous, appears to be slightly recrystallized.

some dark brown to black limestone as above.

ELK POINT DOLOMITE 6693

6690 - 6700 Dolomite, dirty white, to light grey to brown, slightly argillaceous, fine to very fine crystalline, scattered pyrobitumen, poor to fair vuggy intercrystalline porosity, poor oil stain.

6700 - 6710 Dolomite, as above, much appearance to be tight, some light brown, good pin point porosity, small quartz crystal.

6710 - 6720 Dolomite, as above, scattered poor porosity, no visible oil stain or cut.

6720 - 6730 Dolomite, dark grey to brown, trace dirty white, secondary, appearing recrystallized, dolomite, silt-mud, fine to very fine crystalline, slightly argillaceous, black bitumen partings, trace porosity.

6730 - 6740 Dolomite, as above, dirty grey to brown to light brown, light brown, fair to very fair dolomite, recrystallized to some degree, styl. black bituminous partings.

6740 - 6750 Dolomite, as above, some fine crystal, brown and white, secondary dolomite, appearing to be void filling, scattered fair vuggy porosity, poor porosity.

6750 - 6760 Dolomite, dark to light brown, as above, dolomite, arenaceous, slightly recrystallized, trace poor vuggy porosity, no oil stain or cut.

6760 - 6770 Dolomite, light to dark brown, dark brown, slightly argillaceous, dolomite, silty to mud, slightly recrystallized, fine to very fine crystalline, scattered bituminous shale partings.

6770 - 6780 Dolomite, light to dark grey to brown, as above, appearing mostly recrystallized, tight.

6780 - 6790 Dolomite, light brown to dark greyish brown, as above, dolomite, silty to muddy, recrystallized, tight.

6790 - 6800 Dolomite, light brown to dark greyish brown, as above, tight, some light greenish grey, shale partings.

PRE MIDDLE DEVONIAN DETRITAL 6806

6800 - 6810 Dolomite, as above, some very fine sandstone to siltstone, light greyish green, very fine sandstone to siltstone, slightly limy, very argillaceous, tight, micaceous.

6810 - 6820 Shale, light greenish grey, slightly limy, micaceous, soft, to splintery, trace silt to light greenish grey, slightly limy, poor sorting, argillaceous Anhpol.

6820 - 6830 Shale, Anh and Siltstone, as above, dolomite, light buff, dolomite, silty to muddy, trace pyrite, tight primary

dolomite, pres. above.

6830 - 6840 Dolomite, with trace anhyrite, as above, shale, dark greenish grey, micromicaceous, very slightly limy, lumpy.

QUARTZITE 6846

6840 - 6850 Dolomite, as above, with quartz, translucent, medium to very fine sandstone, fair sorting, subangular to subrounded, siliceous, cement, tight.

GRANITE WASH 6861

6850 - 6860 Quartzite, as above, slightly pinkish, color feld fragments.

6860 - 6870 Granite wash pink (flesh), medium to very fine quartz, decayed feld. and large micro fragments, tight.

6870 - 6874 Granite wash as above, some badly weathered granite, drilling break 6872'.

PRECAMBRIAN 6873

TOTAL DEPTH 6874'

Section III - ENGINEERING SUMMARY

(a) Report of Drillstem Tests

DST #1 - 6689 - 6720 - VO 120 mins. SI 30 mins. Fair initial puff, increasing to strong in 10 mins. Steady throughout test. No gas to surface. Rec. 200' salt water cut mud, 180' mud cut salt water, 5020' sulphurous salt water. (120,000 ppm Cl) IHP 3500; ISIP 2655; IFP 1061; FFP 2662; FSIP 2676; FHP 3377.

(b) Casing Record

20" conductor pipe @ 40' with 50 sax.
13-3/8" @ 1190' with 1075 sax cement plus 2% $CaCl_2$.

(c) Bit Record

Run No.	Size	Type	Depth Out	Feet	Hours
1A	17-1/2	OSC3	421	421	20-1/4
2A	17-1/2	OSC3	672	251	18-3/4
3A	12-1/4	OSC3	1190	518	20
1	17-1/2	C.P. Reamer	1115	443	14
1A	17-1/2	OSC3	1190	75	2-1/2
1	8-3/4	DT	2044	854	13-1/4
2	8-3/4	DT	2873	829	14-1/4
3	8-3/4	DT	3408	535	12-1/4
4	8-3/4	YT3	3544	136	4-1/2
5	8-3/4	OSC1G	3774	231	10-1/2
6	8-3/4	OSC1G	4134	362	11-1/2
7	8-3/4	DT2G	4529	309	13-3/4
8	8-3/4	DT2G	4778	249	11-1/4
9	8-3/4	DT	4965	187	10-1/4
10	8-3/4	OSC3	5598	633	16-1/2
11	8-3/4	OSC3	5983	385	16
12	8-3/4	OSC3	6040	57	5
13	8-3/4	S6			
14	8-3/4	OWV	6227	135	16-3/4
15	8-3/4	M4N	6438	211	17-1/4
16	8-3/4	M4N	6599	161	14-3/4
17	8-3/4	YM	6720	121	14-1/4
18	8-3/4	YH	6799	79	10-3/4
19	8-3/4	OWL	6845	46	8-1/2
20	8-3/4	YH	6858	13	4-3/4
21	8-3/4	YH	6871	13	4
22	8-3/4	YH	6874	3	2-1/4

(d) **Mud Report**

Type	Amount
Gel	1144 sax
Drescose	2650 lbs.
Quebracho	110 sax
Caustic	24 cans
Bi-Carb	10 sax
Ante Gyp	58 sax

(e) **Deviation Record**

Depth	Deviation (°)
60	1/2
395	3/4
421	1
450	7/8
480	1/4
512	1/2
575	1/2
608	7/8
638	3/4
667	3/4
697	1/8
756	1/8
815	0
870	1/4
930	1/8
990	0
1050	1/2
1082	0
1142	3/4
1172	1/2
1698	1/4
2245	3/4
2742	1/2
2873	3/4
3174	1/4
3406	1/8
3544	1/4
3775	1/4
4139	1/8
4529	1/2
4965	1-1/2
5060	1-3/4

Depth	Deviation (°)
5550	2-1/2
5598	2-1/2
5719	1-3/4
5983	1-1/2
6227	1-3/4
6438	1-3/4
6599	3/4
6845	1/2

(f) Abandonment Plugs

1 - 6874 - 6610 with 140 sax plus 0.1% HR-12. Felt at 6543'.
2 - 6060 - 5960 with 55 sax plus 0.1% HR-12. No feel.
3 - 3210 - 3110 with 100 sax. Felt at 3082'.
4 - 1140 - 1240 with 100 sax. Felt at 1126'.
Cut off casing bowl, spot 5 sax cement, weld on plate.

(g) Lost Circulation Zones

None.

(h) Report of Blowouts

None.

Section IV - LOGS

Type	Date	Interval	Run No.
Gamma Sonic Caliper	4-29-62	1190-6848	1
Induction Electric	4-28-62	1190-6870	1

Section V - ANALYSIS

(a) Core Analysis

None.

(b) Water Analysis

DST #1 - 6689 - 6720

(c) Gas Analysis

None.

(d) Oil Analysis

None.

Section VI - CONDITION SUMMARY

(a) Tubing Record

None.

(b) Perforation Record

None.

(c) Cementation Record

1. 6874-6810 w/140 sx plus 0.1% HR-12. Felt at 6545' - 5-3-62 (Elk Point)
2. 6060-5960 w/55 sax plus 0.1% HR-12. No feel - 5-3-62 (Slave Point)
3. 3210-3110 w/100 sx. Felt at 3082' - 5-4-62 - (2nd Limestone)
4. 1140-1240 w/100 sx. Felt at 1126. - 5-4-62 - (Cretaceous)
   Cut off casing bowl, spot 5 sx cement, weld on plate.

(d) Acidization and Fracturing Record

None.

(e) Back Pressure and Production Tests

None.

SUBMITTED BY N. A. Meyers

APPROVED BY G. F. Stansberry, Prof. Geologist (Alta.)

June, 1962

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton — Fort St. John — Calgary

WATER ANALYSIS REPORT

Field N.W.T. Well No. Pan Am Home C.S.P. et al N. Island River 0-12

Operator Pan American Petroleum Corporation Date Received May 18, 1962

Formation Elk Point Depths 6689 - 6720

Other pertinent data Location: Unit O Section 12, Grid 60°30' N, 121°00' W. D.S.T. #1. K.B. 1761, Grd. 1747.6. IHP 3500 psi, ISIP 2655 psi., IFP 1061 psi., FFP 2662 psi., FSIP 2676, FHP 3377. Recovered 200 feet salt water cut mud, 180 feet mud cut salt water, 5020 sulphurous salt water. Bottom sample. Date May 24, 1962 Lab. No. E19534-3 No gas to surface.

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na + K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
53,188	19,071	1,897		123	121,004		390		

MILLIGRAM EQUIVALENTS

2313.70	951.64	155.93		2.56	3412.31		6.40		

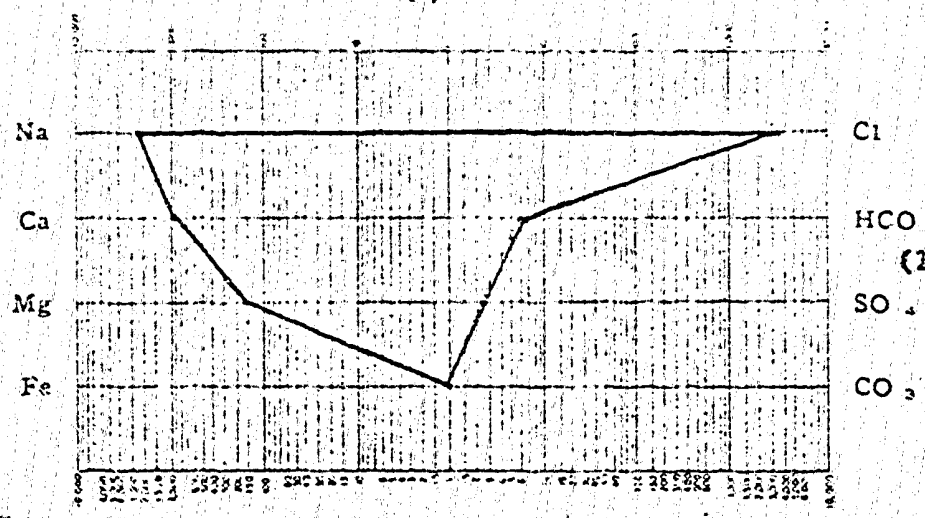
MILLIGRAM EQUIVALENTS IN PERCENT

33.81	13.91	2.28		0.04	49.87		0.09		

Total Solids in Parts per Million		Properties of Reaction in Percent	
By evaporation	220,260	Primary salinity	67.62
After ignition	187,120	Secondary salinity	32.20
Calculated	195,475	Primary alkalinity	---
Specific Gravity	1.132	Secondary alkalinity	0.18
Observed pH	7.2	Chloride salinity	99.92
Resistivity 0.055	ohm meters @ 68° F.	Sulfate salinity	0.08

Remarks and conclusions The general characteristics indicate this sample to be a formation water. There were two samples from the top and middle sampling points. Chloride content determinations were made on each. E19534-1 Top sample. Chloride content 47,970 and 48460 P.P.M.. E19534-2 Middle sample. Chloride content: 118,070 and 118,650 P.P.M..

LOGARITHMIC PATTERN
MEQ per unit



DIST:
F. H. Allen
L. E. Elkins
E. J. Burge
H. A. Baker
S. B. Richards (2)
Dept. of Northern Affairs (3)
(1) Signal Oil & Gas Co.
Home Oil Co. (8)
File (2)

JOHNSTON TESTERS

TEST DATA

Formation: Elk Point Zone Thickness: Ft. Elevation:
Interval: 6689 To 6720 TD 6720 Bottom Hole Choke Size: 1/2"
Kind of Test: Open Hole Fluid Cushion Type:
Time Started in Hole: 1045 Hrs. Tool Open: 1407 Hrs. Amount:
First Flow: 3 Min. Shut In: 30 Min.
Second Flow: 120 Min. Final Shut In: 30 Min.
Pulled Loose @: 1710 Hrs. Out of Hole: 2200 Hrs.
Wt. Set on Packer: 28,000 # Pulled Loose Wt: 50,000 #

Remarks: Tool was chased 5 feet during test period.

Description of Blow During Test:
Strong blow throughout test.

GAS BLOW MEASUREMENTS

Measured with: I.D. 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: 5400 Ft.
Description of Fluid Recovered: 200' of salt water cut mud.
180' of muddy salt water.
5020' of salty sulphurous salt water.

Remarks: Test Satisfactory.

Co. Rep. G. W. Blinn
G. Fenton

TOOL SEQUENCE

Tool	Length	O.D.
Sub.	.70	
PO Sub.	.84	
Sub.	.74	
D.P. Sub.	.84	
SIT	6.05	
Hyd. Tool	8.37	
Jars	4.11	
Recorder	5.06	
Safety Jt.	1.75	
TC & Pkr.	7.11	
TC & Pkr.	5.10	
Total	40.67	
Stub	1.25	
Perf.	23.33	
Recorder	5.50	
B.N.	.75	
Total Intv.	30.83	
Total Length	71.50	

MUD AND HOLE DATA

Mud Type: Gel W.L. 5.9
Filter Cake 2/32 Visc 120 Wt. 10.1
Time Taken:
Contractor: Peter Bawden Drilling Rig No. 8
Drill Pipe Size: 4 1/2 FH
Drill Collar Size: 2 1/2 ID Length: 180'
Main Hole Size: 8 3/4
Rat Hole Size:

District: Peace River Ticket No. 35782 Date: April 25/62
Company: Pan American Petroleum Corp. Address: 10180-102 Street, Edmonton, Alberta
Well Name: Pan Am et al Island River A-1 Test No. 1 J.T.L. Test No. 1
Number: #60°-30'N-121°-00'W DST #1 Field: Wildcat Province: N.W.T.
Formation and Interval: Elk Point-6689-6720
Consultant:
Distribution of Reports: 17-Calgary

JOHNSTON TESTERS

Pressure Data

Test Ticket No. 85782

[illegible]	T-49	T-18			
[illegible]	7000	7000			
[illegible]	6671	6714			
[illegible] Temperature	242°	242°			
[illegible]	3500#	3514#			
[illegible]	8694	1143#			
[illegible]	2655#	2678#			
[illegible]	1061#	1141#			
[illegible]	2662#	2678#			
[illegible]	2676#	2694#			
[illegible]	3377#	3392#			

T-49 - Inside Recorder
T-18 - Outside Recorder

JOHNSTON TESTERS

Pressure Breakdown Data

Date April 25, 1962

Test Ticket No. 85782

Recorder No. T-49 Capacity 7000 Recorder Depth 6671

Clock No. _____ Clock travel _____ inches per min. Well Temperature 242°F.

Point		Pressure
A	Initial Hydrostatic	3500#
B	First Initial Flow	869#
C	Initial Shut-in-Pres	2655#
D	Flowing Pres	1061#
E	Final Flow	2662#
F	Final Shut-in	26876#
G	Final Hydrostatic	3377#

	Time Given	Time Computed
Opened Tool	1407 M.	
First Flow	3 Mins.	Mins.
Initial Shut-In	30 Mins.	Mins.
Flow	120 Mins.	Mins.
Final Shut-In	30 Mins.	Mins.

Remarks:

PRESSURE INCREMENTS

Initial Shut-in

Breakdown 6 increments of 5 mins. and a final increment of _____ mins.

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
0	869	
5	2632	
10	2640	
15	2645	
20	2651	
25	2654	
30	2 655	

Final Shut-in

Breakdown 6 increments of 5 mins. and a final increment of _____ mins.

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$
0	2662	
5	2670	
10	2675	
15	2675	
20	2676	
25	2676	
30	2676	

Breakdown: _____ increments of _____ mins. and a final increment of _____ mins.

Point Minutes	Pressure	$\frac{T+\Delta t}{\Delta t}$

JOHNSTON TESTERS

TECHNICAL REPORT

Nutt Island River

Pan American Petroleum Corp.
Pan Am et al Island River A-1
#60°-30'N-121°-00'W DST #1
Elk Point-5669-5720

JOHNSTON TESTERS

TEST DATA

Formation: Elk Point Zone Thickness Ft. Elevation
Int.: 6689 to 6720 TD 6720 Bottom Hole Choke Size: 1/2"
Type of Test: Open Hole Fluid Cushion Type
Time Tool Open: 1045 Hrs Time Tool Closed: 1407 Hrs Amount
First Flow: 3 Min. Shut In: 30 Min.
Second Flow: 120 Min. Final Shut In: 30 Min.
Hydrostatic @: 1710 Hrs Out Hydrostatic: 2200 Hrs
Initial Pressure: 28,000 psi Final Pressure: 50,000 psi
Remarks: Tool was chased 5 feet during test period.

Pressure at Start of Blow During Test
Strong blow throughout test.

GAS BLOW MEASUREMENTS

Time Started: Time Reached Max.
Test Completed

Time	Time Closed	Minutes Flowed	Cubic Feet Gas

TOOL SEQUENCE

Tool	Length	OD
Sub.	.70	
PO Sub.	.84	
Sub.	.74	
D.P. Sub.	.84	
SIT	6.05	
Hyd. Tool	8.37	
Jars	4.11	
Recorder	5.06	
Safety Jt.	1.75	
TC & Pkr.	7.11	
TC & Pkr.	5.10	
Total	40.67	
Stub.	1.25	
Perf.	23.33	
Recorder	5.50	
B.N.	.75	
Total Intv.	30.83	
Total Length	71.50	

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No x'
Fluid Recovered, Total: 5400 Ft.
Description of Fluid Recovered: 200' of salt water cut mud.
180' of muddy salt water.
5020' of salty sulphurous salt water.

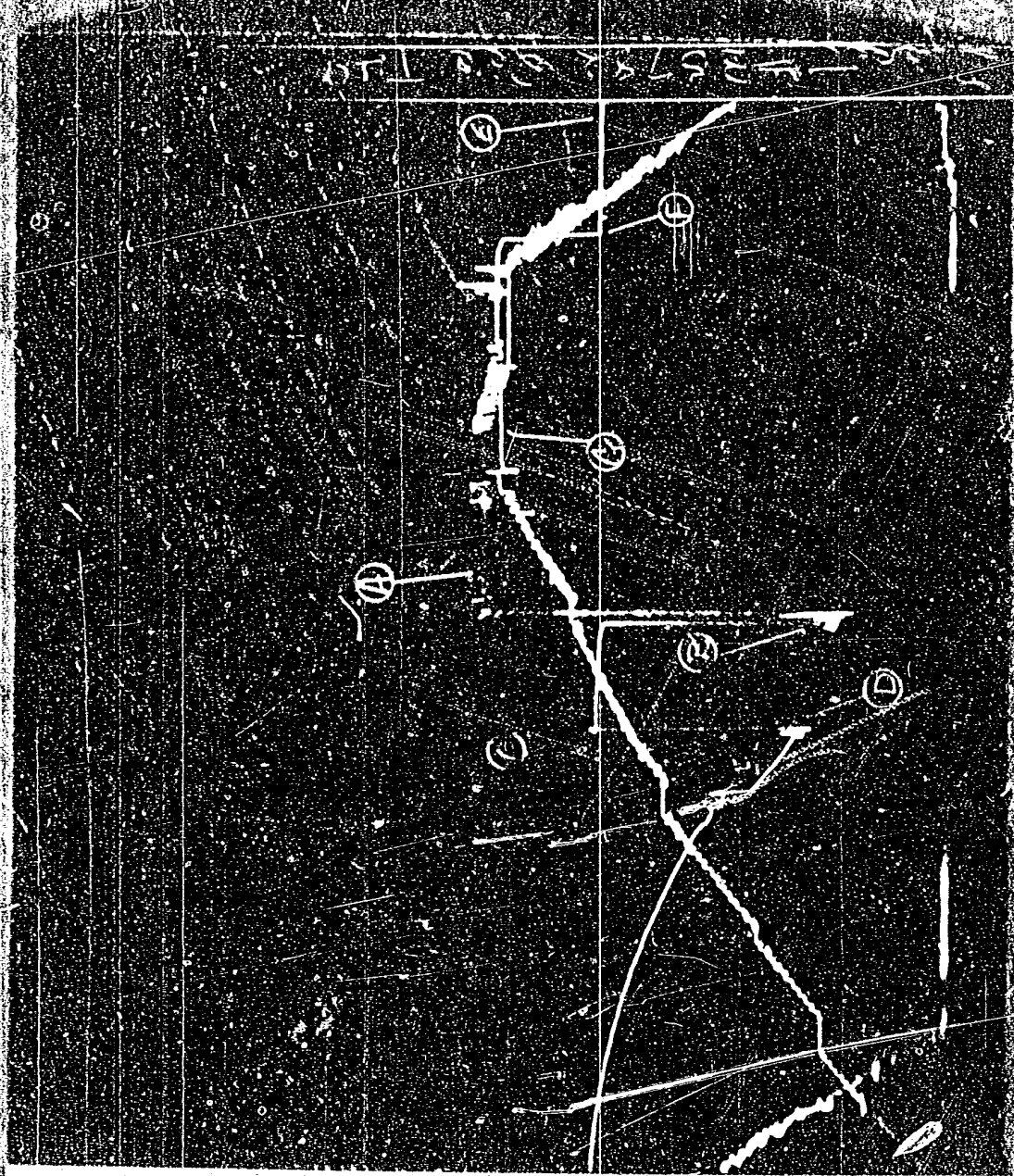
Remarks: Test Satisfactory.

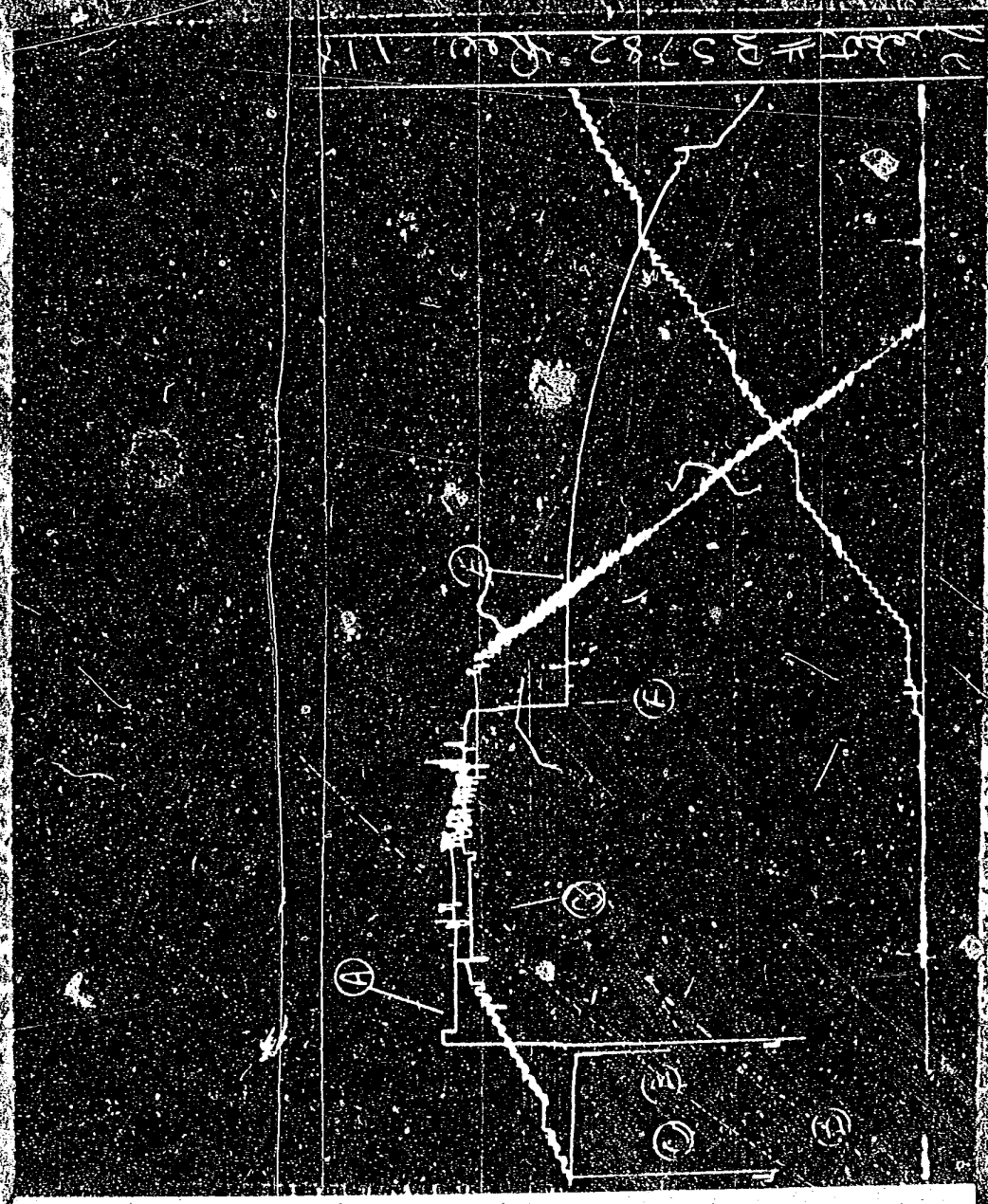
Co. Rep: G. W. Blinn
Tester: G. Fenton

MUD AND HOLE DATA

Mud Type: Gel Wt: 5.9
Filter Cake: 2/32 Vis: 120 Wt: 10.1
Time Taken
Contractor: Peter Bawden Drilling
Rig No: 8
Drill Pipe Size: 4 1/2 FH
Drill Collar Size: 2 1/2 ID Length: 180'
Main Hole Size: 8 3/4
Rat Hole Size

District: Peace River Ticket No: B5782 Date: April 25/62
Company: Pan American Petroleum Corp. Address: 10180-102 Street, Edmonton, Alberta
Well Name: Pan Am et al Island River A-1 Test No: 1 J.T.L. Test No: 1
Number: #60°-30'N-121°-00'W DST #1 Field: Wildcat Province: N.W.T.
Formation: Elk Point-6689-6720 Consultant
Drill Interval
Distribution of Reports: 17-Calgary





JOHNSTON TESTERS

Pressure Data Test Ticket No. 85782

	T-49	T-18		
	7000	7000		
	6671	6714		
	242°	242°		
	3500#	3514#		
	869#	1143#		
	2655#	2678#		
	1061#	1141#		
	2662#	2678#		
	2676#	2694#		
	3377#	3392#		

T-49 - Inside Recorder
T-18 - Outside Recorder

JOHNSTON TESTERS

Pressure Breakdown Data

Date April 25, 1962 Test Ticket No B5782

Recorder No T-49 Capacity 7000 Recorder Depth 6671

Clock No _____ Clock Travel _____ inches per min. Well Temperature 242°F

Point	Pressure
A Initial Hydrostatic	3500#
B First Initial Flow	869#
C End of Shut-in Pres	2655#
D Flowing Pres	1061#
E Final Flow	2662#
F Final Shut-in	2687#6#
G Final Hydrostatic	3377#

	Time Given	Time Computed
Operated Tool	1407 M	
First Flow	3 Mins	Mins
Initial Shut-in	30 Mins	Mins
Flow	120 Mins	Mins
Final Shut-in	30 Mins	Mins

Remarks _____

PRESSURE INCREMENTS

Initial Shut-in

Breakdown 6 increments of 5 mins and a final increment of _____ mins

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
0	869	
5	2632	
10	2640	
15	2646	
20	2651	
25	2654	
30	2 655	

Final Shut-in

Breakdown 6 increments of 5 mins and a final increment of _____ mins

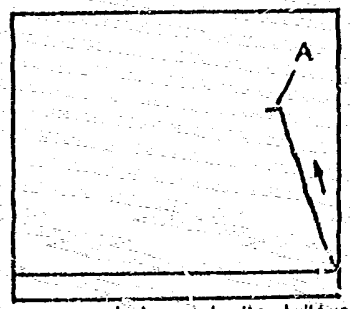
Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$
0	2662	
5	2670	
10	2675	
15	2675	
20	2676	
25	2676	
30	2676	

Breakdown _____ increments of _____ mins and a final increment of _____ mins

Point Minutes	Pressure	$\frac{T + \Delta t}{\Delta t}$

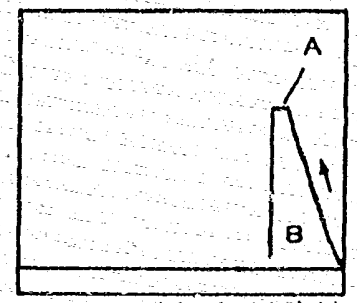
GUIDE TO INTERPRETATION AND IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS

1



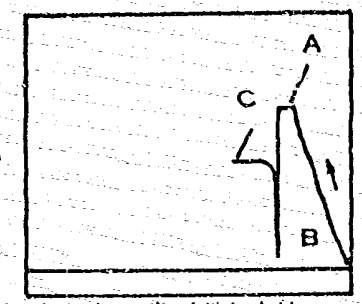
The pressure chart records the build-up of hydrostatic pressure as the testing assembly is lowered into the hole. Upon reaching the testing depth the hydrostatic head or pressure of mud column is recorded.

2



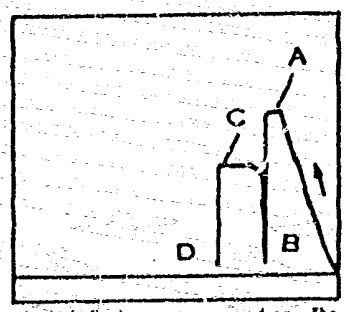
The packer is expanded and set to isolate the test zone. When the test valve is opened, a pressure drop is indicated on the pressure chart. This pressure drop is caused by removal of the hydrostatic mud pressure from the formation, allowing the formation to produce.

3



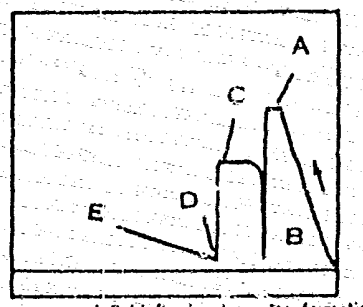
This chart shows the initial shut-in pressure. There is one mechanical method commonly used to obtain this pressure. A 4 stage shut-in tool, that is run-in in the open position and rotated closed when the desired amount of initial flow time is obtained. This initial shut-in pressure is the best method yet devised for recording the original undisturbed reservoir pressure of a formation.

4



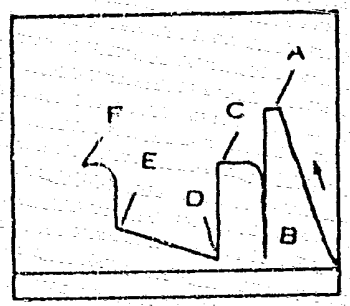
The chart indicates a pressure drop. The test tool has been opened to the surface by rotating the 4 stage shut-in tool into the open position. Permitting the open formation to produce.

5



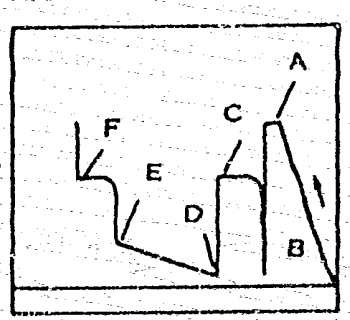
The pressure of fluid flowing from the formation into the well bore, through the perforated anchor, and into the drill pipe, is recorded on the chart.

6



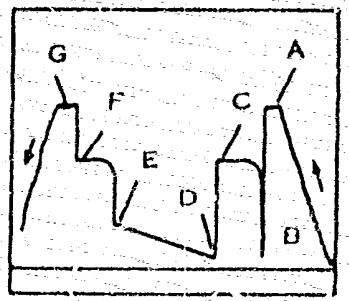
The final shut-in pressure is taken by stopping the flow of formation fluid into the drill pipe. Note the characteristic build-up curve. The well bore pressure is approaching equilibrium with the static reservoir pressure. When the shut-in curve levels-off the static reservoir pressure has been reached.

7



The chart shows the equalizing. The by-pass ports have been opened permitting the drilling fluid to flow through the packer to the test zone. Thus, pressure is equalized above and below the packer. The equalization of the pressure facilitates easier removal of the packer from the packer seat.

8



The packer has been unseated. The testing assembly is being removed from the hole.

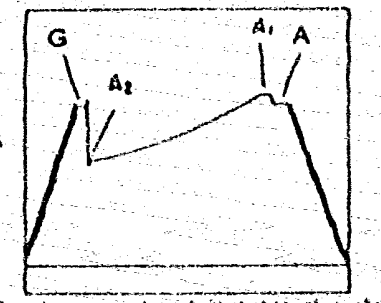
INDEX OF LABELED POINTS:

A—Initial Hyd. Mud
B—First Initial Flow
C—Initial Shut-in
D—Initial Flow
E—Final Flow
F—Final Shut-in
G—Final Hyd. Mud

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

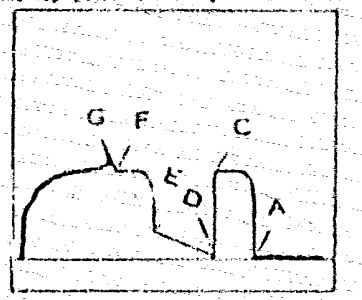
A-1, A-2, A-3, etc. Initial Hyd. Pressures.
B, B-1, B-2, B-3, First Initial Flow.
C-1, C-2, C-3, etc. The Initial Shut-in Pressures.
D-1, D-2, D-3, etc. Flowing Pressures.
E-1, E-2, E-3, etc. The Final Flow Pressures or Final Shut-in Pressures.
F-1, F-2, F-3, etc. The Final Shut-in Pressures.
G-1, G-2, G-3, etc. Final Hyd. Mud Pressures.
Z — Special pressure points such as pumping pressure recorded for formation breakdown.

A



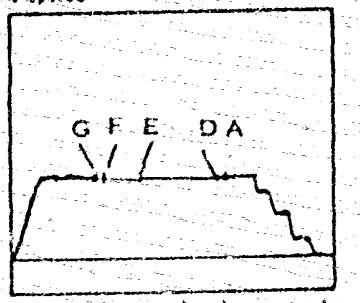
The above is a typical illustration of a chart from a recorder that is run below the bottom packer on a conventional straddle test. Only the hydrostatic mud pressures are recorded. When the tool is opened there is a pressure differential across the bottom packer. This differential is released by the rubber line of the packer element, which in turn causes a drop down in pressure. If the below straddle chart reads the same as a chart that is run to record pressures of the test zone, then the bottom packer has failed. If this occurs, all zones below the top packer are being tested.

B



In this case a recorder has been run in an air chamber. The hydrostatic mud pressures are not influencing the recorder while going in or coming out of the hole due to the main tester valve being closed. The flow pressures and shut-in pressures are recorded while the main tester valve is opened.

C



In this case a recorder has been run above the main tester valve with a fluid cushion used in the drill pipe. No pressure is recorded as the testing tool is being lowered into the hole. Then the fluid cushion pressure is recorded as the drill pipe is filled with fluid. As more stands are run into the hole the recorder registers the hydrostatic pressures of the cushion. When the main testing valve is opened, the pressure of the cushion column or the flowing pressure of the formation (which ever is greater) is recorded.

PAN AM HOMB CSP ST AL A-1 N. ISLAND R. 0-12

May 11, 1962

FINAL REPORT

T.D. 6,874' - Dry and abandoned

Rig released 5th May 1962

Plug #1	-	6,874'-6,610'	with	140	sacks.	Top @ 6,543'
Plug #2	-	6,060'-5,960'	"	55	" .	No feel.
Plug #3	-	3,210'-3,110'	"	100	" .	Top @ 3,082'
Plug #4	-	1,240'-1,140'	"	100	" .	Top @ 1,126'

Cut off casing and welded on plate with riser and well-name plate.

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 5 CONTRACTOR'S NAME [illegible] 24 HOUR PERIOD ENDING AT MIDNIGHT May 5 1962

LEASE NAME Tex Am Home C.S.P. M. Island Tract WELL NO. A-1 FIELD [illegible]

FIRST TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	8:00	Trouble [illegible]			Tested lines from B.P. at 8:00 [illegible] hard & [illegible] on plate C/W [illegible] well [illegible] plate. Clean out mud tanks.
			6874.		
			OUT.		

DAYWORK: HOURS 8 hrs. RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE

SECOND TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	12:00	Trouble out			Tested [illegible] and mud tanks. Just [illegible] water from [illegible] line [illegible] from derrick.
					12:01 P. 5-5-62
					[illegible]

DAYWORK: HOURS 4 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE

THIRD TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.

DAYWORK: HOURS _____ RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drill. 24 HOUR PERIOD ENDING AT MIDNIGHT May 4 1962

LEASE NAME Fed. Dunham CSDA Tribal P.B.R. WELL NO. D-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 M. TO 8:00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:30	Nipple			Finish Pulling out to 3200
12:30	1:15	Cement			Run Plug #3 (3200-3100) w/50 sx Class "B"
					Down @ 1:15 AM (5-4-62)
1:15	2:00	W.O.C.			W.O.C. Lay Down Drill Pipe.
		T.D. 6824			

DAYWORK: HOURS 8 RATE Sched HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

5 man crew

DRILLER'S SIGNATURE E. J. Hughes

SECOND TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
6:00	6:30	W.O.C.	6824		Waiting to pull plug #3.
6:30	7:00	Pull plug.			Run in & tag Top of plug #3 @ 3082'.
7:00	10:00	Pull out.			Pull up to 1240' to run plug #4.
10:00	10:45	Run plug.			Run plug #4 1240-1140 w/150' of Class A cement
					25% Calc. Plug down @ 10:45 AM
10:45	4:00	W.O.C.			Wait on cement & lay down drill pipe &
					collars.

DAYWORK: HOURS 8 RATE Sched HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	Third Party Service									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

2 Men worked 2 hrs overtime

DRILLER'S SIGNATURE

THIRD TOUR FROM 4:00 P M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	6:00	W.O.C.			Waiting to pull plug #4 & lay down drill collars.
6:00	6:15	Run in			Run in & tag plug #4 @ 1126'.
6:15	12:00	Lay down			Lay down drill pipe & unscrew B.O.P.
					Third Party Service
					2 Men worked 2 hrs overtime

DAYWORK: HOURS 8 RATE Sched HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

5 Man Crew

DRILLER'S SIGNATURE Ben Pennington

APPROVED R. Fullerton PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Fox Drlg Co. 24 HOUR PERIOD ENDING AT MIDNIGHT May 3 1962

LEASE NAME Pan Am Hanna Osph Island Rider WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 P M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8	Circ			Circ wt. up to cement.
		TD 6224			Stand by w/crew

DAYWORK: HOURS 8 RATE Stand HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		7	9.9	100	8.0	2/32	9.			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6225	4

5 man crew

DRILLER'S SIGNATURE R. S. Hutson

SECOND TOUR FROM M. TO M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	1:00	Circ			Circ. wt. to cement
1:00	2:00	Cement			Run Plug #1 @ 6610-6874 w/140 sks
					& .1% HR12 Plug down @ 2:00 p.m.
2:00	4:00				W.O.C.

DAYWORK: HOURS 8 RATE Stand HOURS RATE 3 Drill HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

6 man crew

DRILLER'S SIGNATURE J. Mayeux

THIRD TOUR FROM 4:00 M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	9:30	W.O.C.			W.O.C.
9:30	10:00	Trips			Tell Plug #1 @ 6543
10:00	10:30	Trips			Pull to 6060
10:30	11:15				Run Plug #2 6060-5960 w/55 sks
					Salad Cement & .1% HR12 Plug down 2:15
11:15	12:00				Pulling up to Run Plug #3

DAYWORK: HOURS 8 RATE Drill HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

5 man crew

DRILLER'S SIGNATURE Tony Farrington

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

E-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bo. Dr. Dr. Co. 24 HOUR PERIOD ENDING AT MIDNIGHT May 2 1963

LEASE NAME Pan Am Home CSPN T. Lind Rider WELL NO. A-1 FIELD H.W.T.

FIRST TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:30	Service			R.S. Service
12:30	4:00	Trip			Round Trip To Run Cementing Shoe.
4:00	8:00	Circ.			Circ. waiting To Cement.
		T.D. 6874			Stand by w/crew

DAYWORK: HOURS 8 RATE Full HOURS ____ RATE ____ HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		1:00	10.0	120	26	2/32	9.			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

DRILLER'S SIGNATURE

SECOND TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	4:00	Circ			Circ. waiting To Cement
		T.D. 6874			Stand by w/crew

DAYWORK: HOURS 8 RATE Full HOURS ____ RATE ____ HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			10.1	120	8	2/32				

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

DRILLER'S SIGNATURE 6 man crew

THIRD TOUR FROM 4:00 P.M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	12:00	Circ.			Circ. waiting to Cement
		T.D. 6874			Stand by w/crew

DAYWORK: HOURS 8 RATE Full HOURS ____ RATE ____ HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

DRILLER'S SIGNATURE 5 man crew

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Rice Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT May 1 1962

LEASE NAME Pan Am Hanna Corp Tract Rice WELL NO. A-1 FIELD Nw

FIRST TOUR FROM 12 P M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8	Circ			Circ w. O D Drlgs

Stand by w/crew

DAYWORK: HOURS 4 RATE Std HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		8		120		2/32	9.5	25	7 3/4	RR Cutter

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

5 man crew

DRILLER'S SIGNATURE E. S. Hicks

SECOND TOUR FROM 8 A M. TO 4 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	4	Circ			W.O. Orders

Stand by w/crew

DAYWORK: HOURS 4 RATE Std HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		12		115		2/32	10	25	7 3/4	RR Cutter

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

6 man Crew

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 4:00 P M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	12:00	Circ	6874	T.D.	Circ + W.O. Orders

Stand by w/crew

DAYWORK: HOURS 4 RATE Std HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
							Reun 10		8 3/4	ASC-3 Cutter

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

5 man Crew

DRILLER'S SIGNATURE Tom Cunningham

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 2 CONTRACTOR'S NAME Pat. Boden Drlg. 24 HOUR PERIOD ENDING AT MIDNIGHT Sept 30 1962

LEASE NAME Pan Am Fed Espiritu Island Prop WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 M. TO 8 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	3	Loc. Line			Loc. Line.
3	7:30	Trip			Run in + Pick up 8 Singles
7:30	8	Circ			Circ w. O. Orders.

DAYWORK: HOURS 8 RATE Flat HOURS ____ RATE ____ HOURS W/D PIPE 3 hrs

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	½°

DRILLER'S SIGNATURE Timm Prend. E. I. Rich

SECOND TOUR FROM 8 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	8:5	W.O.			W.O. Orders
		T.D. 6874			

DAYWORK HOURS 4 RATE Flat HOURS ____ RATE ____ HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	½°

DRILLER'S SIGNATURE L. Mijau

THIRD TOUR FROM 4:00 P. M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	12:00	Circ.	T.D.	6874	Circ. w/ Bit + W.O. Orders

DAYWORK: HOURS 4 RATE Flat HOURS ____ RATE ____ HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
							Reran 10		8 3/4	OSC-3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	½

DRILLER'S SIGNATURE 5 man Crew Tom Lunsford

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Bud. Dale 24 HOUR PERIOD ENDING AT MIDNIGHT Aug 29 1962

LEASE NAME Pan Am Hum Creek Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8	Logging			Log in w/ Schlumberger after Stm. @ 6872
					Ran I.E.S 2" & 5" scale from T.D. to Surface Csg.
		T.D. 6874			

DAYWORK: HOURS 8 RATE dd HOURS X RATE X HOURS W/D PIPE X

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6245	1/2

5 man crew

DRILLER'S SIGNATURE C. E. Platz

SECOND TOUR FROM 8 A.M. M. TO 4 P.M. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	4	Log			Logging w/ Schlumberger
		T.D. 6874			

DAYWORK: HOURS 8 RATE dd HOURS X RATE X HOURS W/D PIPE X

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2°

6 man Crew

DRILLER'S SIGNATURE L. Mijares

THIRD TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4	12	Log			Logging w/ Schlumberger

DAYWORK: HOURS 9 RATE dd HOURS X RATE X HOURS W/D PIPE X

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

6 man Crew

DRILLER'S SIGNATURE Jon Lumington

APPROVED Leo Blum
PAN AMERICAN REPRESENTATIVE

APPROVED W. Conlon
CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Bo. Dr. Dallas 24 HOUR PERIOD ENDING AT MIDNIGHT April 28 1962

LEASE NAME Pan Am. H. C. Dan Talley Ranch WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 P M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	2	Drill	6811	6874	Drill 7 7/8 Hole.
2	6	Ream			Ream To Log.
6	8	Trip			Hoist To Log.

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		1	10	115	6.2	1/32	7	21	7 7/8	HH OC22
		5	10	120	6.4	1/32	9.			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	6845	1/2

5 man crew

DRILLER'S SIGNATURE E. Cunningham

SECOND TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
2:00	2:30	Trip			Rig Service check Bit's
2:30	8:00	Service			Pick Up Bit
8:00	11	Mixe			W. O. Orders
11:00	1:00	Trip			Run in Bit #22
1:00	3:30	Drill	6874	6878	Drill 7 7/8 Hole.
3:30	4:00	Trip			Hoist Bit #22

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 5 3/4

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1500#	Bal	2	10	120	6.5	2/32	8.5	22	7 7/8	HH OC22
200#	Pan-Tec	4	10	115	6.8	1/32	9.			
500#	Q7									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

6 man Crew

DRILLER'S SIGNATURE E. E. Hughes

THIRD TOUR FROM 12 M TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:30	6:15	Hoist			Hoist Bit #22
6:15	6:30	Rig Ser			Rig Ser
6:30	7:30	Run In			Run In Bit #23 - Recd orders to log
7:30	9:15	Hoist			Hoist to log.
9:15	12:00	Log			Logging w/ Schlumberger
		~~Fact~~	T.D. 6874		

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 5 3/4

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		5:30								

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	1/2

5 man Crew

DRILLER'S SIGNATURE E. Williams

APPROVED Leo Blinn PAN AMERICAN REPRESENTATIVE

APPROVED W. Barlow CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Bob's Brewster Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 27 1962

LEASE NAME Pan Am Home CSPA Delaney Farm WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			Rig Service
12:15	4:15	Drill	6825	6845	Drill 8¾" Hole.
4:15	4:45	Survey			Dropped Survey
4:45	8:00	Trip.			Trip for New Bit.

DAYWORK: HOURS 8 RATE dd HOURS + RATE × HOURS W/D PIPE 5

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	pH	BIT NO.	SIZE	KIND
1500#	Bentonite Cont.	12:30	10.1	300	6.7	2/32	8.5	19	8¾	OWL # 7093
150#	QX	4:00	100	290	6.5	2/32	8.5	20	8¾	YH # 912151
50	Bicarbonate									
	Caustic									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6845	½

5 Men Crew

DRILLER'S SIGNATURE Ken Cunningham

SECOND TOUR FROM 8:00A M. TO 4:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
9:00	8:00	Service			Rig Service check BOP's
8:00	9:30	Reamed			Reamed Drill
9:30	11:00	Trip			Rig and Bit 20
11:00	12:30	Reamed			Ream Last Chert Formation
12:00	0:00	Drill	6845	6857	Drill 8¾ Hole
		T.D	6857		

DAYWORK HOURS 4 RATE dd HOURS + RATE × HOURS W/D PIPE 6½

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	pH	BIT NO.	SIZE	KIND
200#	Caustic	1:00	10.1	160	6.5	2/32	9.0	20	8¾	YH # 912151
1000#	Barium Carbonate	3:00	10.1	139	6.5	2/32	9.0			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	6845	½°

6 Man Crew

DRILLER'S SIGNATURE E. S. Hall

THIRD TOUR FROM 4:00 M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:30	Drill	6857	6866	Drill 8¾" Hole
4:30	4:45	Cir.			Cir. Sample
4:45	5:00	Rig Ser			Rig Ser.
5:00	5:00	Hoist			Hoist for Bit
5:00	11:00	Run In			Run In
10:00	12:00	Drill	6866	6866	Drill 8¾" Hole

DAYWORK: HOURS 8 RATE dd HOURS + RATE × HOURS W/D PIPE 9

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	pH	BIT NO.	SIZE	KIND
		11:00	10.0	140	6.4	2/32	8.5	21	8¾	YH # 11227

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6866	½°

5 Man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Burden Drlg. Co. 24 HOUR PERIOD ENDING AT MIDNIGHT April 26 1962

LEASE NAME Tom Lee Hanna PSPN Cabal Pinto WELL NO. A-1 FIELD Wildcat

FIRST TOUR FROM 12:00 M. TO 8:00 A. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			Rig Service
12:15	2:00	Trip			Trip in w/ Bit #18
2:00	2:30	Ream	6709	6720	Ream 11 feet to Bottom.
2:30	8:00	Drill	6720	6765	Drill 8 3/4" Hole

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
130#	Gel.	3:30	10.0	155	6.6	2/32	8.5	18	8 3/4	J.H. # 016357
50#	Bicarbonate	7:00	10.0	169	6.7	2/32	8.5			
100#	Caustic	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
200#	Ox			6599		3/4				
500#	Bicarb.									

5 Man Crew

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8:00 A. M. TO 4:30 P. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:30	Service			Rig Service & Inspect Bottom of Boiler.
8:30	1:00	Drill	6765	6796	Drill 8 3/4" Hole
1:00	1:30	Repair			Work on Pump.
1:30	2:30	Drill	6796	6777	Drill 8 3/4" Hole
2:30	4:00	Trip			Pull Bit #18

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
700#	Gel	4:00	10.1	155	6.0	2/32	8.5	18	8 3/4	Rock J.H. # 016357
50#	Dextrose	2:00	10.1	140	6.2	2/32	8.5			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		Fast Test		6777		3/4				

Crew on Overtime.

DRILLER'S SIGNATURE O. L. Burton

THIRD TOUR FROM 4:00 P. M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	5:15	Hoist	6799		Hoist Bit #18
5:15	5:30	Rig Ser.			Rig Ser.
5:30	7:30	Run In			Run In
7:30	12:00	Drill		6821'	Drill 8 3/4" Hole

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 7 1/4

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
Thinner	40#	7:00	10.0	150.0	7.0	2/32	8.0	19	8 3/4	CWC # 7093
Gel	50#	11:00	10.0	140.0	7.2	2/32	8.0			
Bicarb	300#	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
				6799		3/4°				

5 Man Crew

DRILLER'S SIGNATURE F. Hanson

APPROVED Leo Blum
PAN AMERICAN REPRESENTATIVE

APPROVED [illegible]
CONTRACTOR'S REPRESENTATIVE

FORM C-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Reg Bowden Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 25 1962

LEASE NAME Pan Am. Home CSPM Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			Rig Service
12:15	4:00	Drill	6689	6720	Drill 8 3/4" Hole
4:00	7:00	Circ.			Circ. to test
7:00	8:00	Trip			Pull out to Run Drill stem test

DAYWORK: HOURS 8 RATE dd HOURS x RATE x HOURS W/D PIPE 5

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		12:00	10.1	124	6.1	3/32	8.6	17	8 3/4	YM # 914990
		4:15	10.1	126	5.9	3/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6599	3/4

5 Man Crew

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:00	Trip			Hoist To Test
9:00	10:30	Misc			Pick up & make up Packer
10:30	1:00	Trip			Run in Packer. DST #1 6689-6720
1:00	4:00	Testing			Test Hole. Flow Pt Dow Open Bottom Hole
					Initial Shut-in Four Initial Blow, Increased To
					DST #1 Strong Within 10 Mins Remained
		T.D. 6720			Strong To End of Test. TO 2 hr Shut-in

DAYWORK HOURS 8 RATE dd HOURS x RATE x HOURS W/D PIPE 244

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		Rec 200' salty water and mud						480' mud cut water 5020' salty		
		water cut mud	15	126	40	IN 3550	IF 1180	FF 2220	SI 2220	FH 3500

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Est. from	6599	3/4

BHT 242

Crew

DRILLER'S SIGNATURE E. J. Hunting

THIRD TOUR FROM 4:00 P.M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	5:15	Test			Testing. (D.S.T. #1)
5:15	6:00	Trip			Pull Packer
6:00	6:30	Misc.			Drain Down Packer
6:30	12:00	Misc			Slip & Cut 34 Drlg Line
		TD	6720		

DAYWORK: HOURS 8 RATE dd HOURS x RATE x HOURS W/D PIPE 6

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		TRIP								

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6599	3/4

5 Man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drilling Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 24 1962

LEASE NAME Pan Am. Horn CSPR Island Rigs WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12.00 M. TO 8.00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12.00	12.15	Service			Rig Service
12.15	7.00	Drill	6528	6599	Drill 8 3/4" Hole
7.00	7.30	Survey			Dropped on trips
7.30	8.00	Trips			Trips for new bit

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
600#	Gel	12.30	10.0	124	6.4	2/32	8.0	16	8 3/4	MAN #577325
200#	Antigyp	6.00	10.1	128	6.0	2/32	8.0			
50#	Driscbe									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6438	1 3/4°
	6599	3/4

5 Man Crew

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8.00 P.M. TO 4.00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8.00	8.15	Service			R.F. Service, check Bolts.
8.15	12.30	Trips			Trips for bit #17
12.30	12.45	Circulate			Bottom circ & clean 10' fill
12.45	4.00	Drill	6599	6625	Drilling 8 3/4" Hole
		T.D. 6599			

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
600#	Gel	2.00	10.1	140	5.5	2/32	8.	17	8 3/4	Y.M. Sec. #511770
500#	Brown Cato	3.00	10.1	120	6.	2/32	8.			
100#	Caustic									
200#	Q.X.									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Fast Survey	6599	3/4

6 man crew

DRILLER'S SIGNATURE C. L. Petite

THIRD TOUR FROM 4.00 A.M. TO 12.00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4.00	9.45	Rig Ser.			Rig Ser.
9.45	10.30	Drill	6625	6699	Drill 8 3/4" Hole
11.30	12.00	Misc.			Work on ~~[illegible]~~

DAYWORK: HOURS 8 RATE dl HOURS x RATE x HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
500#	Na CO_3	5.00	10.0	110	5.0	2/32	8.5	17	8 3/4	Y.M. #9 14990
800#	Gel	9.00	10.0	120		2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6599	3/4°

5 man crew

DRILLER'S SIGNATURE L. Wilson

APPROVED R. Robertson
PAN AMERICAN REPRESENTATIVE

APPROVED W. Kerslake
CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR NAME Bowden Drlg Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT April 23 1962

LEASE NAME Pan Am. Hanna CSPN Island Rivers WELL NO. A1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	1 15	Drill	6327		Drill 8 3/4" Hole
1 15	1 30	Lunch			Rig Service
1 30	8 00	Drill		6427	Drill 8 3/4" Hole

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		12 45	100	105	5.1	2/32	8.5	15	8 3/4	MAN #569819
		8 30	100	126	5.0	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6227	1 3/4

5 man Crew

DRILLER'S SIGNATURE Tom Lunnington

SECOND TOUR FROM 8 00 A. M. TO 4 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 45	Drill	6427	6438	Drill 8 3/4 Hole
8 45	9 15	Survey			Take Survey
9 15	10 30	Misc			Work Tight Hole @ 6218 @ 6078 @ 5948
10 30	12 30	Trip			Hoist Bit #15
12 30	12 45	Service			Rig Service & check Bop's
12 45	1 15	Misc			Slip & cut 34' Drill line. 3 00-3 30 (Break circ & check BOP's 15')
1 15	3 00	Trip	T.D. 6441		Run in w/ Bit #16 (3 30-4 00) Drill 8 3/4" Hole.

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 7 1/4

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		8 30	10°	97	6.6	2/32	8.	15	8 3/4	MAN SER# 569819
								16	"	MAN SER# 572325

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
East Man	6438	1 3/4

6 man crew

DRILLER'S SIGNATURE E. L. Hutchs.

THIRD TOUR FROM 4 00 P M. TO 12 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	Rig Ser	6441		Rig Ser.
4 15	5 00	Drill			Drill 8 3/4" Hole
5 00	5 15	Misc.			Work on C-350
5 15	12 00	Drill		6528	Drill 8 3/4" Hole

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1200#	Gel	5 00	10.8	99	6.4	2/32	8.5	16	8 3/4	MAN #572325
200#	Q-X	11 00	10.9	10.3	6.4	2/32	8.5			
100#	Caustic									
100#	Drisco									
1000#	Ba Cos									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6438	1 3/4°

5 man Crew

DRILLER'S SIGNATURE L. Mason

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

24 HOUR PERIOD ENDING AT MIDNIGHT April 23 1962

RIG NUMBER 28 CONTRACTOR'S NAME Brewster Drilling Co. WELL NO. A1 FIELD N.W. Le

LEASE NAME Jim Ross Hunt C.S.P.N. Lease

FIRST TOUR FROM 12:00 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	1:15	Drill	6332		Drill 8 3/4" Hole
1:15	1:30	Service		6427	Rig Service
1:30	8:00	Drill			Drill 8 3/4" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
12:45	10.0	105	5.1	2/32	3.5	15	8 3/4	MAN #569819
6:30	10.2	126	5.0	2/32	3.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6227	1 3/4

DRILLER'S SIGNATURE 5 Man Crew Jim Cunningham

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	6:45	Drill	6427	6456	Drill 8 3/4" Hole
6:45	7:15	Survey			Take Survey
7:15	11:00	Misc.			Work Tight Hole 6630' 6675' & 6745'
11:00	11:30	Trip			Work Bit & B.P.S.
11:30	12:00	Service			Rig Service & Check B.O.P.S.
12:00	1:00	Misc.			Slip & Cut 34' Drilling Line (3:00-4:00) Drill 8 3/4" Hole
1:00	5:00	Trip			Pull Bit & Trip

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
5:00	10.0	77	5.6	2/32	5.5	15	8 3/4	MAN S-F [illegible]
						16	"	MAN [illegible]

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	6456	1 1/4

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 4:00 M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Rig Ser.	6441		Rig Ser.
4:15	5:00	Drill			Drill 8 3/4" Hole
5:00	5:30	Misc.			Work On C-3 SC
5:30	12:00	Drill			Drill 8 3/4" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED
1200#	GEL
300#	C-7
100#	CAUSTIC
100#	MISCELL
1000#	Ba CO3

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
5:00	10.2	77	6.1	2/32	5.5	16	8 3/4	MAN #572325
11:00	10.3	10.3	6.4	2/32	5.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	6455	1 3/4°

DRILLER'S SIGNATURE 5 Man Crew J. Mojeau

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM D-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR NAME Bowden Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 22 1962

LEASE NAME Pan Am. Home CSPN Inland Rivers WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	2 00	Drill	6140		Drill 8¾" Hole
2 00	2 15	Servic			Rig Service
2 15	8 00	Drill		6248	Drill 8¾" Hole

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
600#	Gel	12:30	10.0	113	7.0	2/32	8.0	14	8¾	DWJ # 8057
100#	Driscose	7:00	10.0	115	7.0		8.0			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½

5 man Crew.

DRILLER'S SIGNATURE Jos Cunningham

SECOND TOUR FROM 8 00 A M. TO 4 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 15	DRILL	6229	6237	DRILL 8¾" HOLE
8 15	8 45	SURVEY	@ 6237		TAKE SURVEY
8 45	11 00	TRIP			HOIST BIT # 14
11 00	11 15	SERVICE			RIG SERVICE CHECK BOP'S
11 15	1 30	TRIP			RUN IN REAM BRIDGE @ 5947
1 30	3 15	CLEANOUT			CLEAN OUT 50' FILL.
3 15	4 00	DRILL	6237	6239	DRILL 8¾ HOLE.

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
	T.D 623A.	8 00	10'	120	6.4	4/32	8.	14	8¾	DWJ SER # 8057
		2 30	10'	110	6	4/32	8	15	8¾	MAN SER # 569817

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
EASTMAN	6237	1¾

5 man CREW.

DRILLER'S SIGNATURE E. L. Watts.

THIRD TOUR FROM 4 00 P M. TO 12 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	5 45	DRLG	6234		DRILL 8¾" HOLE
5 45	6 00	RIG SER			RIG SER
6 00	12 00	DRLG		6332	DRILL 8¾" HOLE

DAYWORK: HOURS 8 RATE Daly HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
800#	GEL	5 00	10.0	107	6.2	2/32		15	MAN	8¾" # 8057
100#	DRISCOSE (RED)	11 00	10.0	103	5.6	2/32				
100#	CAUSTIC									
200#	Q-X									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½
	6332	1¾°

5 man Crew

DRILLER'S SIGNATURE L. Majeau

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Parker Drlg Co. 24 HOUR PERIOD ENDING AT MIDNIGHT April 22 1962

LEASE NAME Pan Am. Home CS Dy Island River WELL NO. A-1 FIELD Wildcat

FIRST TOUR FROM 12:00 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	2:00	Drill	6140		Drill 8¾" Hole
2:00	2:15	Servic			Rig Service
2:15	8:00	Drill		6248	Drill 8¾" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
600#	Gel	12:30	10.0	113	7.0	1/32	8.0	14	8¾	OWV # 8057
100#	Driscose	7:00	10.0	115	7.0		8.0			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½

5 Man Crew.

DRILLER'S SIGNATURE [illegible]

SECOND TOUR FROM 8:00 A M. TO 4:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	2:00	Drill	6229	6237	Drill 8¾" Hole
2:00	6:30	[illegible]	6237		Trip [illegible]
6:30	11:00	Trip			Install Bit #14
11:00	11:30	[illegible]			Ream [illegible] Hole.
11:30	1:30	Trip			Ream [illegible] Bridge @ 5987
1:30	3:00	Circ out			Circ out 50' Fill
3:00	4:00	Drill	6237	6239	Drill 8¾" Hole.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
TD 6234.		6:00	10.0	125	6.0	1/32	8.0	14	8¾	Drill Sec 8057
		3:30	10.1	110	6.0	1/32	8.0	15	8¾	MAH Sec H 5657

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Tesco	6237	1¾

5 Man Crew.

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 4:00 P.M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	5:00	Drlg	6234		Drill 8¾" Hole
5:00	6:00	Rig Ser			Rig Ser
6:00	12:00	Drlg		6332	Drill 8¾" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
500#	Gel	5:00	11.0	117	6.2	2/32		15	MAH	8¾" # 5657
100#	Driscose (LTQ)	11:00	11.0	103	5.6	2/32				
100#	Caustic									
200#	Q-X									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5953	1½
	6239	1½°

5 Man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED ____ PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-62

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT April 21 1962

LEASE NAME Pan Am Home Corp Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
1200	800	Core	6044	6086	◊ Core # 2.
					Mud used by Peter Bawden Drilling while on
					footage Gel 882 sk.
					Shavings 150 #.
					Q-X - 3150 #
					Caustic 1400 #.
					Bicarbonate of Soda 500 #.

DAYWORK: HOURS 8 RATE Dly. HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
150 #	Driscose	100.	9.9	155	6.0	3/32	8.5	10	6 11/16	Christ # EC-10103
		700	9.9	168	6.6	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½°

5 MAN CREW

DRILLER'S SIGNATURE L. Mayeau

SECOND TOUR FROM 8 00 A M. TO 4 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
800	9.00	Coring	6086	6092	Cut ◊ Core #2
9.00	11.45	Trips			Pull out w/ Core.
11.45	12.45	Misc.			Recover Core & lay Down Core Hdl & Check B.O.P.
12.45	2.30	Trips			Trip in w/ 8¾" Bit.
2.30	400	Ream	6040	6048	Reaming Rat hole To 8¾" hole.

DAYWORK: HOURS 8 RATE Dly. HOURS RATE HOURS W/D PIPE 7

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	◊ Core # 2.		Tripping					10	6 11/16	Christ # EC
	6042-92	3.30	160	150				14	8¾	OWV # 8057
	Rec'd 100%									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½

DRILLER'S SIGNATURE

THIRD TOUR FROM 4 00 P M. TO 12 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
400	415	Service			R.G Service.
415	715	Ream	6048	6092	Ream 6¾ Rathole To 8¾ Hole.
715	945	Drill	6092	6117	Drill 8¾" Hole.
945	1015	Repair			Repair Rotary chain
1015	1200	Drill	6117	6140	Drill 8¾ Hole.
		T.D	6140		

DAYWORK: HOURS 8 RATE Dly. HOURS RATE HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2300 #	Gel	500	99	90	6.4	2/32	8.0	14	8¾	OWV Ser # 8057
100 #	Driscose Reg.	1100	10°	115	6.0	2/32	8.0			
400 #	Caustic									
300 #	Q X									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5983	1½

5 Man Crew

DRILLER'S SIGNATURE E. S. Bates.

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] COMMISSIONER'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Bep Tucker Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT June 21 1962

LEASE NAME Ida Jo Hope Com Fuhrman Blinebry WELL NO. 1 FIELD Undes.

FIRST TOUR FROM 12 M. TO 8 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1/2"	Drisease	1:00	7.9	155	6.0	1/32	8.5	10	6 1/16	Christ "RC-HH3
		7:00	7.9	116	6.6	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1 1/2

DRILLER'S SIGNATURE Simon Cruz / Lopez

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:00	Coring	6086	6092	Cut & Core #2
9:00	11:45	Trip			Pull out w/ Core.
11:45	12:45	Mech.			Recover Core & Lay Down Core Bbl & Check B.O.P.
12:45	2:30	Trip			Trip in w/ 8 3/4" Bit.
2:30	4:00	Ream	6040	6048	Reaming Rat hole To 8 3/4 hole.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
	Core #2 6042-92 Rec'd 100%	Injected						10	6 1/16	Christ #RC
		3:30	180	150				14	8 3/4	OWV # 8057

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1 1/2

DRILLER'S SIGNATURE

THIRD TOUR FROM 4:00 P M. TO 12:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Service			R.C. Service.
4:15	7:15	Ream	6048	6092	Ream 6 1/4 Rat hole To 8 3/4 Hole.
7:15	9:45	Drill	6092	6117	Drill 8 3/4 Hole.
9:45	10:15	Repair			Repair Rotary Chain
10:15	12:00	Drill	6117	6140	Drill 8 3/4 Hole.
		TD	6140		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2300#	Gel	5:00	9.9	90	6.4	2/32	8.0	14	8 3/4	Owv Sec # 8057
100#	Drisease Rec.	11:00	10.0	115	6.0	2/32	8.0			
100#	Caustic									
300#	Gel									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5983	1 1/2

DRILLER'S SIGNATURE S. Mac Green / E. S. Hastes.

APPROVED L. Pulsfaner PAN AMERICAN REPRESENTATIVE

APPROVED W. Gordon CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR NAME Fred Browder Poly Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT April 20 1962

LEASE NAME Pan Am Home Orland Riley WELL NO. A1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	12 15	Service			Rig Service
12 15	2 00	Core			Condition Hole
2 00	2 30	Trips			Running Trip 5 stds
2 30	3 00	Ream			Clean 9" to 6 3/4"
3 00	6 00	Circ.			Condition Hole
6 00	8 00	Trips			Trips for core #1

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
500#	Gel		89	66	5.7	2/32		13	8 3/4	5-6 # C350 30
100#	Drimcore		100	135	6.0	2/32				

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE L. Ferguson

SECOND TOUR FROM 8 00 A M. TO 4 30 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 45	Trips			Finish Trips out
8 45	9 15	Core			Pick up Core Hole
9 15	10 00	Trips			Cut & Slip Drlg line
10 00	12 00	Trips			Run in w/ Core Hole
12 00	12 45	Circ.			Circ. w/ Core Hole 4 feet fill
12 45	3 30	Coring	6040	6042	Cut Core #1
3 30	4 00	Trips			Pull out Core wouldn't Cut.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
	Core #1	1.30	100	125	6.0	2/32	8.5	10	6 1/16	# EC-1010 3
	6040-42'	3 00	101	190	6.0	2/32	8.5			Christ.
	Recd 6"									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5923	1 1/2

5 man Crew

DRILLER'S SIGNATURE for Tommy Kent

THIRD TOUR FROM 4 00 P M. TO 12 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	Service			Rig Service
4 15	6 15	Trips			Hoist Core Bbl.
6 15	8 30	Misc			Service Core Bbl & Find [illegible] in Pipe
8 30	10 30	Trips			Run in w/ Core Bbl.
10 30	11 30	Circ			Circ. Prior to coring.
11 30	12 00	Coring	6042	6044	Cut Core #2

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								10	6 1/16	N.C.T. # EC-1010 3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5923	1 1/2°

5 man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bowden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT April 19 1963

LEASE NAME Pan Am Hinle Corn Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 M. TO 8:00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Rig Ser			Rig Ser.
12:15	2:30	Clean Hole			Clean Out Hole From 5860 - 6040
2:30	5:30	Cir			Cir. Hole To Condition For Core #1
5:30	8:00	Trip			15 Std Dummy Trip (Check Tight)

DAYWORK: HOURS 8 RATE Drlg. HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH.	BIT NO.	SIZE	KIND
	Caustic	12:00	9.7	76	8.2	2/32	8.5			
	G-X									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½

5 Man Crew

DRILLER'S SIGNATURE L. Wojcik

SECOND TOUR FROM 8:00 A M. TO 4:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	1:30	Reaming	5530	6040	Reaming & clean hole to Btm.
1:30	2:30	Circ.			Circ. to clean hole.
2:30	3:30	Trip			10 std Dummy Trip Bridge at 60 feet off Btm
3:30	4:00	Reaming			Reaming to Btm.

DAYWORK: HOURS 8 RATE Drlg. HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH.	BIT NO.	SIZE	KIND
3800#	Gel.	8:30	10.0	76	7.4	2/32	8.0	13	8 3/4	S-6 # 535030
250#	QX.	2:00	10.0	72	6.4	2/32	8.0			
125#	Rag Disposal									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5985	1½

5 man Crew.

DRILLER'S SIGNATURE Tom Lemmington

THIRD TOUR FROM 4:00 P M. TO 12:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Service			Rig Service
4:15	5:00	Clean out			Clean out to Fill.
5:00	1:00	Circ			Circ. condition Hole
1:00	1:30	Trip			Make 15 std Dummy Trip
1:30	11:15	Clean out			Clean out to Fill.
11:15	12:00	Circ			Circ. condition. PMD

DAYWORK: HOURS 8 RATE Drlg. HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	Gel							13	8 3/4	S6 Str # 535030
200#	Dispersant									
500#	QX									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5983	1½

5 man crew

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 5 CONTRACTOR'S NAME Pier Sinden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT April 15 1962

LEASE NAME Pan Am Hume Csgn Island River WELL NO. 1-1 FIELD N.W.T.

FIRST TOUR FROM 12 M. TO 8 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	12½	Rig Ser			Rig Ser
12½	4	Drill	5988	6040	Drill 8¾" Hole
4	8	Cir			Cir & Hi Mud To Core
					Reach Show Point @ 2:45 A.M @ 6018'.

DAYWORK: HOURS 5¼ RATE Daily HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
Gel	300#	3	11.1	50	7.0	2/32	7.0	12	8¾	Sk # 5190 Sk
C-X2	40#	7	11.1	52	8.8	2/32	9.0			
Drscore	200#									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5993	1½

5 Man Crew

DRILLER'S SIGNATURE L. Maione

SECOND TOUR FROM 8 A.M. TO 4 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:30	Circ.			Circ. & Mix Mud to Core
9:30	12:15	Trip			Pull out to Core Hole
12:15	2:15	Misc.			Pick up & Service Core Hole
2:15	4:00	Trip			Run in w/ Core Hole

DAYWORK: HOURS 8 RATE Daily HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
300#	Gel	8:30	100	54	7.2	2/32	8.0	1	6 1/16	Christensen # EC 10103
25#	Drscore									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1½

5 Man Crew

DRILLER'S SIGNATURE Jim Lovewright

THIRD TOUR FROM 4 P.M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4	4	Service			Rig Service
4	4:30	Trip			Run in w/ Core Bbl.
4:30	6:30	Ream			Ream Fourth Core Hole & Drop Jds
6:30	3	Trip			Pull from Bbl.
3	7	Misc			Service & Stand Back Core Bbl.
7	12	Trip			Run in w/ Bit. Tight Spots.

DAYWORK: HOURS 8 RATE Daily HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								12	8¾	[illegible]
								13	8¾	Sk [illegible]

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Fastman	[illegible]	1½

5 Man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bowden Drlg. 24 HOUR PERIOD ENDING AT MIDNIGHT April 17 1962

LEASE NAME Pan Am Home Gpn Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	12 30	Survey			Rig Ser + Survey Pump Strokes -
12 30	8 00	Drill	5119	5119	Drill 8 3/4" Hole " Pressure -
					Rotary RPM's -
					Wt. on Bit -
					Put in 6" Heads + Liners in P-350

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		1 00	9.9	40	11.2	2/32	8.5	11	8 3/4	OSC-3 # 24251
		7 00	9.9	40	11.4	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5119	1 3/4°

5 MAN CREW

DRILLER'S SIGNATURE J. Majeau

SECOND TOUR FROM 8.00 A M. TO 4 00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8.00	8.15	Service			Rig Service + Check B.O.P.
8.15	9.00	Drill	5929		Drill 8 3/4" hole.
9.00	9.15	Repair			Repair Pump
9.15	10.30	Drill			Drill 8 3/4" hole
10.30	10.45	Repair			Repair oil line in Drawworks
10.45	12.00	Drill	5983		Drill 8 3/4" hole. 1.00-1.15 Survey
12.00	1.00	Circ.			Circ. trip out. Order 1.15-4.00 Trip out &
					Motors repair

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
390#	Gel.	8.30	9.9	38	9.6	2/32	8.0	11	8 3/4	OSC-3 # 24251
200#	Lecitin	11.30	9.9	48						
100#	Defoamer									
300#	RX									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	5983	1 1/2

5 Man Crew

DRILLER'S SIGNATURE Tom Cunningham

THIRD TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	5 00	Trip			Hoist Bit # 11
5 00	5 30	Service			Rig Service
5 30	6 00	Misc			Slip + Cut 54 Drilling Line
6 00	7 30	Trip			Run in w/ Bit # 12
7 30	11 30	Ream	4790	5983	Ream out Bridged Hole
11 30	12 00	Drill	5983	5988	Drill 8 3/4" Hole.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
140#	Gel	11 00	9.9	50	9.2	2/32	8.	12	8 3/4	[illegible]
100#	Caustic									
300#	RX									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	5988	1 1/2

5 man crew

DRILLER'S SIGNATURE [illegible]

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Rip Burden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT March 16 1962

LEASE NAME Robin Hood Gas Island River WELL NO. 11-1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	12 15	Rig Ser	~~5311~~		Rig Ser. Pump Strokes - 50
12 15	3 15	Drill	5311	5365	Drill 8 3/4" Hole " Pressure - 1150
3 15	4 00	Repairs			Repair Air Line to Rotary RPM's - 110
4 00	8 00	Drill	5365	5513	Drill 8 3/4" Hole. Wt. on Bit - 45M

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2900#	Gel	3 00	9.8	43	9.6	2/32	8.5	10	8 3/4	OSC3 #27694
50#	Caustic	7 00	9.7	45	10.0	2/32	8.5			
200#	Q-X	DEVIATION INSTRUMENT	DEPTH	DEGREES OFF						
50#	Driscose	Eastman	4965	1 3/4						
			5060	1 3/4						

5 Man Crew

DRILLER'S SIGNATURE L. Mojica

SECOND TOUR FROM 8 00 A.M. TO 4 00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8.00	8.15	Service			Rig Service & Check B.O.P.'s
8.15	10.45	Drill	5513	5598	Drill 8 3/4" hole
10.45	10.55	Survey			Dropped Survey on Trip
10.55	4.00	Trip			Pull out for bent bit & Run in

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
100#	Gel	8.30	9.8	43	10	2/32	8.5	10	8 3/4	OSC-3 #27694
50#	Caustic							11	8 3/4	OSC-3 #29851
200#	QX	DEVIATION INSTRUMENT	DEPTH	DEGREES OFF						
50	Driscose	Eastman	5650	2 1/2°						

5 Man Crew

DRILLER'S SIGNATURE John Cummings

THIRD TOUR FROM 4 00 P.M. TO 12 00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	Shut down			Run in Blow out 20' Fill
4 15	4 30	Service			Rig Service
4 30	8 30	Drill	5598	5688	Drill 8 3/4 Hole
8 30	10 30	Repair			Repair Rotary & Guard.
10 30	11 45	Drill	5688	5719	Drill 8 3/4 Hole
11 45	12 00	Survey			Take Survey on Sand Line
		TD @ 5719			

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
100#	Driscose	6 00	9.9	41	10.4	2/32	8	11	8 3/4	OSC3 #29851
	Gel 3400#	11 00	9.9	42	9.2	2/32	8			
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF						
		Eastman	5712	2 1/2						

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 2 CONTRACTOR'S NAME Peter Shelden Drlg. 24 HOUR PERIOD ENDING AT MIDNIGHT April 15 1962

LEASE NAME Pan Am Home (SPN Island Drlg.) WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12 00 M. TO 8 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	12 30	Drill	4903	4942	Drill 8 3/4" Hole Pump Strokes - 95 SPM
12 30	1 00	Rig Ser			Rig Ser " Pressure - 900 psi
1 00	8 00	Drill	4942	4942	Drill 8 3/4" Hole Rotary RPM's - 130
					Wt on Bit - 35M

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
2400#	Gel	1 00	9.9	48	8.2	2/32	8.5	9	8 3/4"	DT 62891
100#	Drascose	6 00	9.6	45	8.0	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	4529	1/2

3 Man Crew

DRILLER'S SIGNATURE L. Majeau

SECOND TOUR FROM 8 00 A.M. TO 4 00 P.M.

FROM	TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 15	Service			Rig Service & Check B.O.P's
8 15	9 30	Drill	4942	4965	Drill 8 3/4" hole
10 00	1 00	Trip			Pull out Light Hole working Pipe & Bit.
1 00	2 45	Trip			Run in w/ Bit #10 Bridge @ 4613
2 45	4 00	Ream			Reaming Bridge to 4720

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		8.30	9.9	42	8.7	2/32	8.0	9	8 3/4	DT # 62891
								10	8 3/4	OSC-3X 27694

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4965	1 1/2°

3 Man Crew.

DRILLER'S SIGNATURE Tony Lemmington

THIRD TOUR FROM 4 P M. TO 12 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	Ream			Ran in to Bottom & clean out 10' Fill.
4 15	4 30	Service			Rig Service.
4 30	5 00	Drill	4965	5060	~~[illegible]~~
5 00	8 30	Survey			Take Survey on Sand Line (5060 @ 1 1/4°)
8 30	11 00	Drill	5060	5211	Drill 8 3/4 Hole.
			T.D. 5211		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
500#	Gel	5 00	9.9	42	7.8	2/32	8	10	8 3/4	OSC-3 27694
100#	Caustic	11 00	10	41	8.6	2/32	8			
200#	Gel									
	Drascose									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4965	1 3/4
"	5060	1 3/4

3 Man Crew

DRILLER'S SIGNATURE [illegible]

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Brown Drlg. 24 HOUR PERIOD ENDING AT MIDNIGHT April 14 1962

LEASE NAME Pan Am Home OSPM Island River WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 P M. TO 8:00 A. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service	4778		R.C. Service
12:15	5:00	Circ			Circ Hole w.o Fishing Tools
5:00	8:00	Trips			Hoist Bit & Service Drill Collars.

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H	BIT NO.	SIZE	KIND
		1:00	10.0	47	8.	2/32	8.	9	8 3/4	DT. Ser. 62897
		4:00	10.0	47	8	2/32	8.			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4529	1/2

5 man crew.

DRILLER'S SIGNATURE C. J. Hutto.

SECOND TOUR FROM 8:00 A M. TO 4:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:30	Rig Ser			Rig Ser
8:30	10:30	Run In			Run In w/ Overshot
10:30	12:00	Fishing			Fishing
12:00	1:00	Hoist			Hoist Fish Pulled 100,000 over string
					Fish moved up. Unable to circulate
					Through fish.

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND 0
								9	8 3/4	DT # 62897

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4529	1/2

5 man crew

DRILLER'S SIGNATURE L. Magee

THIRD TOUR FROM 4:00 P M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	6:30	Trips			Pull out fish & Break Down Same
6:30	6:45	Service			Rig Service
6:45	—	Service			Clean shale out of Btm. Hole D.C. and
—	9:30				service DC D.C. & Run in D.C.
9:30	10:45	Trip			Run in w/ Bit
10:45	12:00	Drill	4778	4803	Drill 8 3/4 hole.

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		Tripping						9	8 3/4	DT # 62897
		11:30	9.9	51						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	4529	1/4

5 man Crew

DRILLER'S SIGNATURE Tom Lawrence

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME [illegible] 24 HOUR PERIOD ENDING AT MIDNIGHT [illegible] 13 1962

LEASE NAME [illegible] WELL NO. A-1 FIELD [illegible]

FIRST TOUR FROM [illegible] M. TO [illegible] M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
10:00	12:00	DRILL	4771	4778	DRILL IN 8 3/4" HOLE
12:00	[illegible]	MISC			PUT MUD TO FISH (W.O. DOWEL SHOT.)
		T.D. 4778			

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
5200	GEL	1:00	9.8	39	8.2	2/32	8.5	8	8 3/4	DTJG #94357
50#	DRISCOSE	2:00	10	48	7.	2/32	8.5			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
EASTMAN	4529	1/2

DRILLER'S SIGNATURE [illegible] CREW

SECOND TOUR FROM [illegible] M. TO [illegible] M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
7:00	8:15	[illegible]			[illegible]
8:15	[illegible]	[illegible]			[illegible]
[illegible]	2:30	[illegible]			[illegible]
2:30	[illegible]	[illegible]			[illegible]
[illegible]	[illegible]	[illegible]			[illegible]
			4774	4779	

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1000#	GEL	9:00	9.9	45	8.5	2/32	8.0			
100#	CAUSTIC									
100#	C.V.									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
[illegible]	[illegible]	[illegible]

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 4:00 P.M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	5:15	Trips			Run in w/ over shot
5:15	5:30	Circ.			Circ above fish
5:30	7:00	Fishing			Hook on to fish + over shot broke in half
7:00	8:30	Trips			Pull out + lay down fish
8:30	8:45	Service			Rig service
8:45	10:30	Misc.	4778		Clean suction tank + slip drlg line
10:30	12:00	Trips			Run in w/ bit circ.

DAYWORK: HOURS 0 RATE HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		Tripping						9	8 3/4	O-T. # 62897

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
[illegible]	[illegible]	[illegible]

DRILLER'S SIGNATURE 5 Man Crew. Tom Lemmington

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Rauden Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT Oct 12 1962

LEASE NAME Pan Am Hoss & S.P.M. Island Project WELL NO. B-1 FIELD N.W.

FIRST TOUR FROM 12 P M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			R.G. Service
12:15	2:30	Drill	4312	4529	Drill in 8 3/4" Hole
2:30	3:00	Survey			Drop Survey
			T.D.	4529	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
	Gel 3600#	1:00	9.7	41	8.8	2/32	7.5	7	8 3/4	DTJG. Sec 56070
	Dispersene 100#	7:00	9.5	40	8.8	2/32	8.			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4139	1/2°
Eastman	4529	1/2°

5 man crew

DRILLER'S SIGNATURE E. J. Hall

SECOND TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:15	Rig Ser			Rig Service & Chk BOP's O.K.
8:15	10:00	Hoist			Hoist for Bit
10:00	11:00	Run In			Run in Bit #7
11:00	12:00	Clean			Clean 120' to Bottom
12:00	4:00	Drill	4529	4620	Drill 8 3/4" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
1000#	Gel	1:00	9.6	36	8.2	2/32	7.4	8	8 3/4	DTJG 74357
50#	Hi Vis Dispersene	3:00	9.6	41	8.6	2/32	8.0			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	4529	1/2°

5 man crew

DRILLER'S SIGNATURE E. Wingeau

THIRD TOUR FROM 4:00 P.M. TO 12:00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Ser.			Rig Service
4:15	12:00	Drill	4620	4771	Drill 8 3/4" Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
4300#	Gel.	4:30	9.7	38				8	8 3/4	DTJG. #74357
200#	OX	10:30	9.6	41	10.8	2/32				
100#	Caustic									
50#	Dispersene									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	4529	1/2

5 men crew

DRILLER'S SIGNATURE Roy Cunningham

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pitts Bros. Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT April 11 1962

LEASE NAME Pan Am Hope U S Patton Dr. Unit WELL NO. A-1 FIELD N. W. T.

FIRST TOUR FROM 12 P M. TO 8 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Clean out			Run in clean to Bot.
12:15	12:30	Service			R.G. Service
12:30		Drilling	3975	4025	Drill 8 3/4" Hole.
			T.D. 4025		

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2700#	Gel	1:00	10	36	9	2/32	7.5	6	8 3/4	OSC 1G Ser # 34900
75#	Driscose	7:00	9.9	35	10	2/32	7.5			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		Eastman		3975		1/4				
								DRILLER'S SIGNATURE	5 man Crew. L. J. Hucke	

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:15	Rig Ser			Rig Ser & Chk BOPs
8:15	12:15	Drlg	4025	4139	Drill 8 3/4" Hole
12:15	1:00	Survey			Survey & Condition Mud
1:00	3:00	Hoist			Hoist Bit #6
3:00	4:00	Run In			Run In Bit #7

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
Gel - 2200#		9:00	9.8	36	9.6	2/32	7.6	6	8 3/4"	OSC1G 34910
Vis Driscose - 75#		10:00	9.6	38	9.8	2/32	7.6			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		Eastman		4139		1/8°			5 man Crew.	
								DRILLER'S SIGNATURE	L. Mejia	

THIRD TOUR FROM 4:00 P.M. TO 12:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Rig S			Rig Service
4:15	5:15	Running			Run in hole tight
5:15	8:30	Drill	4139	4239	Drill 8 3/4" hole
8:30	8:45	Repair			Repair on Draw's
8:45	12:00	Drill	4239		Drill 8 3/4" hole

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		9:30	9.7	40	9.7	2/32	8.5	7	8 3/4	DT2G #56070
400#	QX	11:30	9.7	42						
200#	Caustic	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
5200#	Gel			4139		1/8			5 man Crew.	
100#	Driscose							DRILLER'S SIGNATURE	Tom Fleming Jr.	

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-69

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pan Am Drlg. 24 HOUR PERIOD ENDING AT MIDNIGHT April 10 19 62

LEASE NAME Pan Am Mexia (SPN Island) Rider WELL NO. A-1 FIELD N. W.T.

FIRST TOUR FROM 12 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			R.R. Service.
12:15	4:15	Trip.			Trip to Plug Bit.
4:15	4:45	Misc			Pick up & Singles.
4:45	5:30	Clean out			Clean out 50' Fill.
5:30	8:00	Drill	3587	3655	Drill 8 3/4" Hole.
			T.D. 3655.		

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2100#	Gel	6:00	9.8	46	11.	2/32		5	8 3/4	OSC-1-G H.C.
2 sk	Caustic	7:30	9.8	43	11	2/32				Ser 29604
400#	Cl K.									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

5 Man Crew

DRILLER'S SIGNATURE E. J. Arrington

SECOND TOUR FROM 8:00 M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:00	Rig Serv			Rig Serv Check BOP: O.K.
9:00	12:00	Drill	3655	3775	Drill 8 3/4" Hole
12:00	4:00	Hole			Hole & Lay down 10 singles (Drop Survey)

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
		9:00	9.9	38	9.1	2/32	8.5	5	8 3/4	OSC1G
		1:00	9.8	37	9.4	2/32	8.0			Ser 29604

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	3775'	1/4

5 Man Crew

DRILLER'S SIGNATURE L. Mejeau

THIRD TOUR FROM 4 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	7:45	Trips		3775	Hole tight working & lay down 10 singles
7:45	9:30	Trips			Pull out Bit # 5 & Run in B.C.
9:30	10:30	Misc.			Slip & Cut Drlg Line
10:30	12:00	Trips			Run in & cleaning to Btm from 3475

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								5	7 3/4	OSC1-G # 29604
								6	7 3/4	OSC1-G # 34900

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3775	1/4

5 Man Crew.

DRILLER'S SIGNATURE Tom Lemmington

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME [illegible] 24 HOUR PERIOD ENDING AT MIDNIGHT April 7 1961

LEASE NAME [illegible] WELL NO. A-1 FIELD N.W.T.

FIRST TOUR FROM 12:00 P M. TO 3 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			Rig service & Hoist B.P.
12:15	1:15	Clean out			Clean out to Top of Fish At 3153
1:15	3:45	Mud			Condition Mud.
3:45	5:00	Trip			Hoist Bit
5:00	6:00	Trip			Run in of Dump Shot
			T.D.	3599	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200#	Gel	2:00	9.5	46						
100#	Dr. Loose	3:00	9.7	55						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Smanco

DRILLER'S SIGNATURE E. E. Hutto.

SECOND TOUR FROM 8:00 A M. TO 4:00 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:15	Rig Ser			Rig Ser
9:15	10:00	Fishing			Fishing For D.C.
10:00	11:00	Hoist			Hoist
11:00	12:30	Pick Up			Make Up Fishing Tool
12:30	1:15	Run In			Run In
1:15	2:00	Cir			Circulate 3:00-4:00 — Hoist Fish
2:00	[illegible]	Fishing	T.D.	3599	Fishing For D.C.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200#	Gel	7:00	[illegible]	50						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Smanco

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	7:30	Pull out			Pull out fish.
7:30	9:00				Break down fishing tools.
9:00	10:00				Clean shale out of Bottom Hole Dull Bits
10:00	11:30	Trip			Trip in & Meas. Pipe
11:30	12:00				Trying to Break Circ.
			T.D.	3599	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Smanco

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pr[illegible] Bar[illegible] Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT April 8 1962

LEASE NAME Pan Am Hanc C & PA Tabeud River WELL NO. A-1 FIELD N W T

FIRST TOUR FROM 12 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:[illegible]	Service			Rig Service check Bolts
12:[illegible]	6:30	Fishing			Fishing for cone.
6:30	8:00	Trips			Running Bits.
			T.D	3544	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								5	9 3/4	OSC1-G (27604)

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Same crew

DRILLER'S SIGNATURE E. J. Burke

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	9:00	Circulate			Circulate Bottom
9:00	9:[illegible]	Trip Soc			Trip Soc
10:00	10:[illegible]	Drill	3544	3588	Drilled 8 3/4" Hole (Pulled Bit UP 7DC
10:30	11:00	Circ			Cir. Hole Clean
11:00	12:00	Hoist			Hoist To Fish
12:00	2:00	Run In			Run In To Fish for D.C.
2:00	4:00	Hoist			Hoist (Fish Held)

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
300#	Gel	5:00	9.1	31				5	9 3/4	OSC 1G
100#	Caustic	7:00	12.0							Sn 27604
150#	Gyp									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Same crew

DRILLER'S SIGNATURE L. Hajcak

THIRD TOUR FROM 4:00 P.M. TO 12:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:15	Service			Rig Service.
4:15	12:00	clean to Btm.			Cleaning to Btm. @ 2793
			T.D	3544	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000#	Gel.							5	9 3/4	OSC 1G (27604)
25#	Duscose									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3174	1/4

Same crew

DRILLER'S SIGNATURE Ken Pennington

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED W. Conley CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Brewster Drlg Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT April 7 1962

LEASE NAME Pan Am Hope CSPA Gold Rivers WELL NO. A1 FIELD

FIRST TOUR FROM 12 00 M. TO 8 00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12.00	12.15	Service			Rig Service
12.15	5.00	Drill	3304	3408	Drill 8¾" hole.
5.00	5.30	Survey	3406		Survey.
5.30	8.00	Trip			Tripping for new Bit

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2700#	Gel	12.30	10.5	32				3	8¾	D-7 # 73162
100#	Drispac	4.00	10.4	34	14			4	8¾	YT-3 # 018029

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3406	1/8

DRILLER'S SIGNATURE Tom Leaning for

SECOND TOUR FROM 8 00 P M. TO 4 00 P. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
[illegible]	[illegible]	Trip			Run in w/ Bit. Br. D-7 @ 2200
[illegible]	9.15	Ream			Ream out 50' fill
9.15	1.00	Drill	3408	3544	Drill 8¾" Hole
1.00	2.00	Trip			Work in pipe
2.00	2.30	Survey			Take survey
2.30	4.00	Hoist			Hoist Br. #4
			T.D. 3544		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1300#	Gel	10.00	7.5	36	11.8	2/32	7.5	4	8¾	Hard YT-3.
3#	Drispac									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	3544	1/4°

DRILLER'S SIGNATURE E. J. Hicks

THIRD TOUR FROM [illegible] P M. TO [illegible] M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
[illegible]	[illegible]	Trip			Hoist Bit #4
[illegible]	[illegible]	Work Mag.			Work off Magnet
[illegible]	[illegible]	Service			Rig Service
[illegible]	[illegible]	Run Mag.			Run in w/ Magnet
[illegible]	[illegible]	Work Mag.	3544		Work Magnet to location for lost cone.
[illegible]	[illegible]	Hoist "			Hoist Magnet
[illegible]	[illegible]	"	T.D. 3544		Work Magnet

(7 00 [illegible] Run in w/ Magnet
10 30 [illegible] Work Magnet to Bit)

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								Magnet		

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	3544	1/4

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM D-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 3 CONTRACTOR'S NAME Pat Burden Drlg Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT April 6 1962

LEASE NAME Pan Am Horse Island River WELL NO. A1 FIELD

FIRST TOUR FROM 12:00 M. TO 8:00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Service			Rig Service
12:15	6:00	Drill	2546	2752	Drill 8 3/4" hole.
6:00	6:15	Survey		2752	Survey w/ wireline
6:15	8:00	Drill	2752	2812	Drill 8 3/4" hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1400#	Gel.	1:00	9.5	33				2	8 3/4	D-T = #73076
150#	Dispersant	7:00	9.2	31	12.0					

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	2712	1/2

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8:00 A. M. TO 4:00 P. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:30	Service			Rig Service & Hook Bolts.
8:30	9:30	Drilling	2812	2873	Drilling 8 3/4" Hole.
9:30	10:00	Survey		2873	Take Survey
10:00	11:30	Trip			Hoist Bit #2
11:30	1:00	Repair			Change Reducer liners & pull shaft
1:00	3:00	Trip			Run in work Bit Dr @ 2862
3:00	4:00	Drilling	2873	2918	Drilling 8 3/4" Hole.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1600#	Gel.	8:30	9.3	34	12.4	2/32	8	2	8 3/4	D.T. 73076
		9:30	9.2	33	11.	2/32	8.	3	8 3/4	D.T. 73162

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Fist Pump	2873	3/4

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 4:00 P. M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
[illegible]	[illegible]	Rig Ser			Rig Ser
[illegible]	[illegible]	Drill			Drill 8 3/4" Hole
[illegible]	[illegible]	Survey			Survey (Misrun - Tool Stopped)
[illegible]	[illegible]	Drill			Drill 8 3/4" Hole
[illegible]	[illegible]	Survey			Survey (1/4°)
[illegible]	[illegible]	Drill			Drill 8 3/4" Hole
[illegible]	[illegible]	Drill	[illegible]	[illegible]	[illegible]

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1600#	Gel	[illegible]	9.5	33	13.0	1/32	8.0	3	8 3/4	D.T. #73162
100#	Dispersant	[illegible]	9.5	35		2/32	7.6			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
~~Fist Pump~~	~~2918~~	1/4°

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Barker Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 5 1962

LEASE NAME Pan Am Home CSPH Island Rivers WELL NO. A1 FIELD

FIRST TOUR FROM 12:00 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:45	Rig Repair	1324	1850	Rig Service
12:45	5:45	Drill			Drill 9 7/4 hole
5:45	6:00	Survey			Survey
6:00	8:00	Drill			Drill 9 7/4 hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2000#	Bent.		8.7	32				1	8 3/4	D-T.
50	Dresicone		8.9	33						
500	Bicarb	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
				1698		1/4				
							DRILLER'S SIGNATURE	[illegible]		

SECOND TOUR FROM 8:00 A M. TO 4 P.M M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:15	Service			R.C. Service & Test BOPs
8:15	12:30	Drill	1850	2044	Drill 8 3/4" Hole
12:30	12:45	Survey			Take Survey 2000' Misrun Clock stopped
12:45	1:30	Trip			Hoist Bit #1
1:30	4:00	Misc			Repair Swivel & shpaced out Drill Line.

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H	BIT NO.	SIZE	KIND
		9:00	9.1	35	9.0	2/32	9.	1	8 3/4	D.T. SFR) 32856
		11:00	9.1	33	9.2	2/32	9.			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		1650				1/4				
		2044		MISRUN			DRILLER'S SIGNATURE	E. J. Hicks		

THIRD TOUR FROM 4:00 M. TO 12:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	4:30	Bottom			Pick up DC
4:30	5:00	Pick up			Pick up 6 DC's
5:00	7:45	Trip			Trip in to Drill
7:45	8:00	Service			Rig Service
8:00	8:00	Drill			Drill 8 3/4 Hole
8:00	8:15	Survey			Survey 1/4°
8:15	12:00	Drill	2044	2346	Drill 8 3/4 Hole

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H	BIT NO.	SIZE	KIND
1000#	Gel		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
50#	Hy Vis Dris		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		Fishman		2245'		3/4°				
							DRILLER'S SIGNATURE	[illegible]		

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Gulf Bowden Drlg Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT April 4 1962

LEASE NAME Pan Am Hugo. CSPN Island River WELL NO. A1 FIELD

FIRST TOUR FROM 12 00 M. TO 8.00 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	4.00	Finish	Nipple	up.	
4.00	4.30	Pressure	Blind	Rams	to 450 Held O.K. 15 min.
4.30	5.00	Run in	w/ 12¼"	Bit	Plug @ 1151.73
5.00	5.15	Circ.			
5.15	5.45	Pressure	Pipe	Ram	to 1000 PSI held for 15 min O.K
5.45	6.15	Pressure	Hydril	to 1000	PSI held for 15 min O.K.
6.15	8.00	Drilling	Plug.		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Jon Lanning

SECOND TOUR FROM 8 00 A. M. TO 4 P. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 30	Service			RIG SERVICE.
8 30	10 00	Drill.			Try to Drill out Float
10 00	11 00	Trip.			Trip For Bit (Float metal Locked Bit.)
11 00	2 00	Drill			Drill out Float & Shoe.
2 00	4 00	Misc.			Trip out & Drill Mouse Hole.
			TD	1190	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	LOSS	CAKE		BIT NO.	SIZE	KIND
								1A.	12¼	Re Run (Use 3)

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE L. L. Hutto

THIRD TOUR FROM 4 00 P. M. TO 12 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	8 00	Misc.			Drill Mousehole
8 00	9 00	Trip			Run In
9 00	10 30	Repairs			Work on Drawks
10 30	12 00	Drill	1190	1324	Drill 8¾" Hole
					From 1190 To 1324 R.B. to G.L. 13.45

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								1	8¾	DT

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Pete Burnett Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 3 1962

LEASE NAME Tex Am Kane CSPN Island River WELL NO. A1 FIELD W/C.

FIRST TOUR FROM 12 M. TO 8 A. M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	1 30	W.O.C	~~1200~~	~~1 30~~	W.O.C.
1 30			~~1 30~~		Digging Pilar & Cut off Conductor
		Nipple up			Pipe & Casing & Welding on
	8 00			~~8 00~~	Casing Bowl.
			T.D	1190	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE [illegible]

SECOND TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	4 00	Nipple up	~~8 00~~	~~4 00~~	W.O.C. Nipple up B.O.P's
			T.D	1190	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE J. Nedelijk

THIRD TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	12 00	Nipple up	~~4 00~~	~~12 00~~	W.O.C. & Nipple up.
			T.D	1190	

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE J. McJane

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 2 CONTRACTOR'S NAME Peter Bowden Drlg Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 2/62 19

LEASE NAME Pan Am. Home CSPK Gilard River WELL NO. A1 FIELD

FIRST TOUR FROM 12 M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00		Trouble Up 2 Ream. & Bit size 17½" & Clean to Btm on			
	5:30	Two Trips.			
5:30	6:00	Rig up to Run Casing			
6:00	8:00	Run Casing.			
			T.D 1190		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8 A.M. TO 4 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	10:00	Run Casing.			1 Jnt 37 Jts 13⅜ O.D. 54.5# J55 STC
10:00	11:30	Cal. Casing			SS. K-2 Casing Landed on Bottom.
11:30	1:30	Cement.			at 1190' K.B.
1:30	4:00	W.O.C.			Cement with 1075 Sks Oilwell Cement
					Plug Down 1:00 PM 4-2-62 - 1000 PSI OK
			T.D 1190		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE S. Tiedeyck

THIRD TOUR FROM ____ M. TO ____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	12:00	W.O.C.			W.O.C.
			T.D 1190		

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE

APPROVED G. R. Blimkie PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM D-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drly Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT April 1st 1962

LEASE NAME Pan Am-Lessel CSPN Island Rivers WELL NO. A1 FIELD W/C.

FIRST TOUR FROM 12:00 A.M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	12:15	Rig Ser.	672	1115	
12:15	2:00	Ream 17½			
2:00	5:00	Trip for Bit & Reaming in tight hole.			
5:00	6:30	Ream 12¼" hole to 17½			
6:30	7:30	Trip to unball bit.			
7:30	8:00	Trip out			

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			11.0	115				Reed	17½	Dull
			11.0	130				2A	17½	

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Tom Cunningham

SECOND TOUR FROM 8 A.M. TO 4 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:15	Ser Rig			3:30-4:00 Rig to Pull Casing.
8:15	9:30	Trip			Trip to unball bit.
9:30	10:30	Ream	1115	1190	12¼ to 17½
10:30	11:00	Circ			Circ to Run Casing
11:00	11:45	Trip			Pull out to Run Casing
11:45	12:15	Rig to run casing			Rig to Run Casing.
12:15	3:30	Run casing			Weld & Run Casing.

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								2A	17½	OSC-3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	1190	½°

DRILLER'S SIGNATURE M. Adelizi

THIRD TOUR FROM 4:00 P.M. TO 12:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4:00	5:00	Pull casing		1190	1100-1200 Pull casing
5:30	6:00	Rig to run in w/bit			Rig in w/17½" bit.
6:00	6:45	Run in			Trip
6:45	7:30	Circ			Circ
7:30	7:45	Short			Trip
7:45	8:45	Rig to run casing			Taping & Run Csg.
8:45	11:00	Run casing			

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE G. Gladwell

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-69

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT March 31 1962

LEASE NAME Pan Am Signal Csp N. Island River WELL NO. A1 FIELD W/C

FIRST TOUR FROM 12 00 P.M. TO 8 00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	12 15	Rigser			Rig Svc.
12 15	1230	Survey	~~1120~~		Survey 1082 - 0
1230	415	Drill	1075	1142	Drlg
415	430	Survey	~~1142 3/4~~		Survey 1142 - 3/4
430	730	Drill	1142	1172	Drlg
730	745	Survey	~~1172 1/2~~		Survey 1172 - 1/2
745	800	Drill			Drlg

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
500	Gel	2 AM	109	95				3A	12 1/4	OSC 3
		7 AM	10.5	64						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	1082	0
	1142	3/4

1172 - 1/2

DRILLER'S SIGNATURE A. Jackland

SECOND TOUR FROM 8 00 A.M. TO 4 00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	9 30	Drill	1172	1190	Drill
930	11 30	Trip for bit			Trip
11 30	400	Reaming	672	855	Reamed.

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			108	75				3A	12 1/4	OSC-3
			10.8	63				1 Rmr	17 1/4	

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Tom Lanning Jr.

THIRD TOUR FROM 4 P.M. TO 12 MNM.

TIM FROM	TIM TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
400	415	Sec Rig.	855	1070	
415	12	Ream			Ream 12 1/4 To 17 1/2

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
600	Gel.	5 PM	108	70				1 Ream	17 1/2	
		4 PM.	109	87						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE A. Rudejah.

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED L. T. Bilins. CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME PETER BAWDEN DRIG 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 30 1962

LEASE NAME PAN AM SIGNAL CSP NORTH ISLAND RIDER WELL NO. A-1 FIELD WIC.

FIRST TOUR FROM 12 00 P.M. TO 8 00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
					7 00 - 8 00 SURVEY
12 00	12 15	RIG SER			
12 15	12 30	DRILL	599	608	DELG
12 30	1 45	~~MIX MUD~~	608-638		MIX MUD
1 45	1 30	SURVEY			SURVEY
1 30	4 30	DRILL	608	638	DELG
4 30	4 45	SURVEY	638		SURVEY
4 45	7 45	DRILL	638	667	DELG

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000	Gel	2AM	10.3	86				2A	17½	OSC3
		6AM	10.3	84						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	608	3/8
	638	3/4

667 = 3/4

DRILLER'S SIGNATURE [signature]

SECOND TOUR FROM 8 00 A.M. TO 4 00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8.00	8.15	Rig Service	2.15	3.00	Drill
8.15	9.00	Drill	3.00	3.15	Survey
9.00	10.30	Pull & Lay	3.15	4.00	Drill
10.30	12.00	Drill			
12.00	12.15	Survey			
12.15	2.00	Drill			
2.00	2.15	Survey			

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000#	Gel		10.2	43				2A	17½	OSC-3
			10.4	63				3A	12¼	OSC-3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
Eastman	697	1/8
	756	1/8

815 - 0

DRILLER'S SIGNATURE [signature]

THIRD TOUR FROM 4 P.M. TO 12 M.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	SER RIG	927	1035	9 15 - 10 45 DRILL
4 15	5 30	DRILL			10 45 - 11 00 SURVEY
5 30	5 45	SURVEY			11 00 - 12 00 DRILL
5 45	7 30	DRILL			
7 45	7 30	SURVEY			
7 30	9 00	DRILL			
9 00	9 15	SURVEY			

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								3A	12¼	OSC-3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
EASTMAN	870 1/4	930 1/8
	990 0	1050 1/2

DRILLER'S SIGNATURE [signature]

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Peter Bawden Drlg 24 HOUR PERIOD ENDING AT MIDNIGHT March 29 1962

LEASE NAME Pan Am Signal-CSP North Island River WELL NO. A1 FIELD W/C

FIRST TOUR FROM 12:00 P.M. TO 8:00 A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12:00	1:00	DR. 11	370	295	Drlg
1:00	1:15	Survey			Survey 3/4 - 3/4
1:15	1:30	Service Rig			Service Rig
1:30	4:45	DR. 11	295	421	Drlg
4:45	5:00	Survey			Survey
5:00	6:15	TRIP			Trip
6:15	8:00	DR. 11	421	450	Drlg.

DAYWORK: HOURS 0 RATE 0 HOURS ____ RATE ____ HOURS W/D PIPE 0.

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			10.1	49				1A	17½	OSC3
			10.1	54				2A	17½	OSC-3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	395	3/4
	421	1

DRILLER'S SIGNATURE A S Jackson

SECOND TOUR FROM 8:00 A.M. TO 4:00 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	8:15	Rig Service	3:15	4:00	Drill
8:15	10:45	Drill			Drlg
10:45	11:00	Survey			Survey
11:00	1:00	Drill			Drlg
1:00	1:15	Survey			Survey
1:15	3:00	Drill			Drill
3:00	3:15	Survey			Survey

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1500 #	Gel.		10	42				2A	17½	OSC-3
			10	43						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
	450	3/4
	480	1/4
	512	1/2

DRILLER'S SIGNATURE [illegible]

THIRD TOUR FROM 543 1/2 TO ____ A.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
7:00	7:15	R.G. SER.	546	548	
7:15	5:30	BALLED BIT			TRY TO UNBALL B.T.
5:30	7:30	TRIP			TRIP. CLEAN BIT & REAM TIGHT SPOTS.
7:30	9:00	DRILL	11:15	12:00	DRILL. 11:15-12:00 DRILLING
9:00	9:15	SURVEY			Survey
9:15	10:00	DRILL			Drlg
10:00	11:15	REPAIR			CHANGE WASH PIPE & PACKING IN SWIVEL

DAYWORK: HOURS ____ RATE ____ HOURS ____ RATE ____ HOURS W/D PIPE ____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	GEL 21.00			75				2A	[illegible]	[illegible]
	WATER			45						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
EASTMAN	575	1/2°

DRILLER'S SIGNATURE [illegible]

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 8 CONTRACTOR'S NAME Brown Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT March 22 1962

LEASE NAME Pan Am Signal Oil N Island Ross WELL NO. A1 FIELD W/c

FIRST TOUR FROM 12 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	5 00	Rig up			Rigging up.
5 00	7 45	Drill	0	75	Drill out.
7 45	8 00	Survey			Survey.
					K.B to gd 13.45
					Spudded at 2 00 A.M. 3-22-62.

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1800	Gel	5 00		35				1A	17½	OSC3
		7 00		42						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF
EASTMAN	60	½

DRILLER'S SIGNATURE L. Shalland

SECOND TOUR FROM 800 A M. TO 400 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
800	945	Drill	75	209	245-300 Survey 162-3/4
945	10 00	Survey	103-½		300-400 Drill
10 00	12 00	Drill			Drlg
12 00	12 15	Survey	132 3/4		Survey
12 15	130	Drill			Drlg
130	145	Survey	162 3/4		Survey
145	245	Drill			Drill

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1600	Gel							1A	17½	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Tom Cunningham

THIRD TOUR FROM 4 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
4 00	4 15	Survey	209	330	700-815 Drill
4 15	5 00	Drill			815-830 Survey 305 ½
5 00	5 15	Survey	220 3/4		830-900 Drill
5 15	6 00	Drill			900-915 Survey 335 3/4
6 00	6 15	Survey	250 ½		915-1130 Drill
6 15	7 00	Drill			1130-1145 Survey 360 3/4
7 00	7 15	Survey	280 ½		1145-1200 Drill

DAYWORK: HOURS 0 RATE 0 HOURS RATE HOURS W/D PIPE 0

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								1A	17½	OSC-3.

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE Hedetyak.

APPROVED [illegible] PAN AMERICAN REPRESENTATIVE

APPROVED L. Gilmo CONTRACTOR'S REPRESENTATIVE