

PAN AM A-2 GRAINGER
N-42

Drilling Authority No. _____

Date Issued _____

WELL NAME _____

FIELD _____

Area: _____

LOCATION Unit _____

Section _____

Grid _____

Latitude _____

Longitude _____

From Established Reference Marker _____

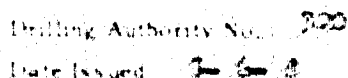
Rig Release Date: _____

Status _____

Information Release Date _____

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
9-1-61	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale Small scale



WELL COMPLETION DATA

Call name and number: 25-2-114109-1

Print No. 4940

Lease No.

can - town - style - 7.

Exploratory License No. 1200

SECRET

Exploratory License No. 1200

Location Unit

Section

Good

Latitude 41° 21' 00"

Longitude $115^{\circ} 05' 12''$

From Established Reference Marker 100 - 100, 500: point 36

Universal Well Location Reference 42.23770 Lat., 130.15330° Lon.

DATE:

DEPT. 1948

Pool(s) _____

Interval(s) open to production

500.10.1

Suspended

Resumed Operations

Finished Drilling

Dr opened!

Complete (see oil)

Abandoned

King released

Elevation Gr. 745 K.B. 77

Ref. No.

Drilling Contractor

Contractor's Business Licence No.

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Sacks of Cement and Additives
7-5/8"	E-30	7.7	11 lbs.	440 ft.	20 lbs. Alwell + 2% CaCl ₂ + 65 lbs
1.					
2.					
3.					Alwell from to .
4.	Conductor Pipe - 10' of 45 gallon barrels welded together.				
5.					Recemented with 40 sacks cement + 2% CaCl ₂
6.					

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Annular, Fracture)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
11-29-61	3335	3515	40 sacks. 04.26 Seal 2 No foam 10. #1								
11-30-60	230	250	Plug #2 43 500 l.a. #1 Seal 2 feet after 3 hours @ 26'								
11-30-68	Surface		5 sacks cement placed on top of casing after it had been out off 3' below ground level. Plate welded on top with identification marker.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.R.H.P.	F.S.I.R.H.P.	I.F.R.H.P.	F.F.R.H.P.	L.H.P.	F.H.P.	REMARKS
1	11-21-60	Water	3440	3515	60	60	60	1474	1474	243	102	1924	1924	Sec. 123' oil water 160 ft. and

(Field Pressures)

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E61-3490-3	Water	3440	3515	TEST #1	
E68-8490	Fluid	3440	3515	DST #1	
CNP-4-4451	Core	3466	3484	Rec. 15' from Core #1	

PRESENT STATUS OF WELL

Oil			
Gas			
Dry			
Susp.			

Canadian Petroleum Corporation

Company

Signed by

Title

Date

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



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well on Suspended Drilling

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

Name and number of well Pan Am A-2 Granger #42
Location Unit 42 Section 42
Latitude 61°15' 00" Longitude 123°03' 47"
From Established Reference Marker 123°03' 47"
61.20000° Lat., 123.145000° Long.
Permit No. 12320 Lease No. 12320

Pan American Petroleum
Production License No.

Date of commencement of proposed program November 27, 1968

OIL, GAS, AND WATER ENCOUNTERED
Depths

Oil at 411
Gas at 411
Water at 3440 - 3415, 5 ft. H
Total Depth 3415 Date of last operations November 30, 1968
Present condition of well Plugged & abandoned

CASING RECORD

Casing Size (in. O.D.)	Weight	Amount	Set At	Remarks	Amount Picked
7 5/8" - 40	27.75	11 Jts.	340 ft.	200 S. L. Oilwell + 2% CaCl ₂ 65 lbs Oilwell on top.	Nil
2					
3					
4					
5					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Joints of Cement	Remarks
1	3345 - 3315	Calanisi	40 Sx + 2'	No feel CaCl ₂
2	290 - 400	Surface Casing	45 Sx + 2% CaCl ₂	Felt = 246 after 3 hrs.

Cut pipe off 3 feet below ground level, 5 Sx Cnt. in top, and weld on 1" plate.
Release rig 11-30-68.

The following logs have been run: 3H06 W/CR Galiper, Formation Density log, Induction Electrical
Other operations proposed: Sidewall Neutron

Operations to be carried out by Brinkerhoff Bros. Ltd.
Address 220 Central Bldg. Calgary 2, Alta.

Contractor Licence No.
Address

Responsible Agent in field Mr. Fred Nolan

Dated at Cranio Prairie, this 3

Signed by Area Foreman
Title

Day of December 10 68
Company Pan American Petroleum Corporation
Operator's Exploratory Licence No. 1200

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.E.J. Thomas on the
30th of November 1968.

Dated 5th December 19 68

B.E.J. Thomas
Oil Conservation Engineer

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



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

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

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

Name and number of well **Pan Am A-1 Grainger** 42
Location Unit **B** Section **42** Grid **61° 20' 123° 00'**
Latitude **61° 12' 00" N.** Longitude **123° 08' 42"**
From Established Reference Marker **Line W-60-1 Shot Point 36**
Universal Well Location Reference **61.20-00-123.145000 W. Long.**
Elevation Ground **735.0'** **K B** feet above sea level.
Well is expected to produce from **Elk Point** formation at a depth
of about feet Expected total final depth **2500 Ft.**
Area assigned to well

(For Oil Conservation Engineers use only)

Permit No **4940** Lease No **61,956**

Permitter, licensee, or leasee **Am. American Petroleum Corporation**

Exploratory Licence No **120**

Surface owned by Crown or

Crown

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

Petroleum and natural gas rights owned by

Crown

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

Casing Size O.D. (Inches)	Weight (Lb. Ft.)	Grade	New or Used	Estimated Depth	Depth of Cement
1. 7 5/8"	29.4	N-80 LT&C	New	300	to surface
2. 4 1/2"	9.5	J-55 ST&C	New	2500	Comply/Regulations
3.					
4.					
5.					

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

Hydril and double gate shaeffer with hand controls and hydraulic controls with remote control panel.

Well will be drilled with Rotary Rig No. **38** by **Brinkerhoff Bros.**

(Drilling Contractor or company)

Responsible agent of applicant:

Contractor's Business Licence No. **A11157**

At well **J.A. Scharff**

At registered office **Same**

Address **9916A Richmond Ave.**

Address **Same**

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

Dated at **Grande Prairie**

this **21**

day of **August**

1968

Signed by *[Signature]*

Company **Pan American Petroleum Corp.**

Title **Drilling Foreman**

Operator's Licence No. **1200**

(For Resource Management Division use only)

APPROVED

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

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

Dated **26th August**

19 68

[Signature]
Oil Conservation Engineer

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

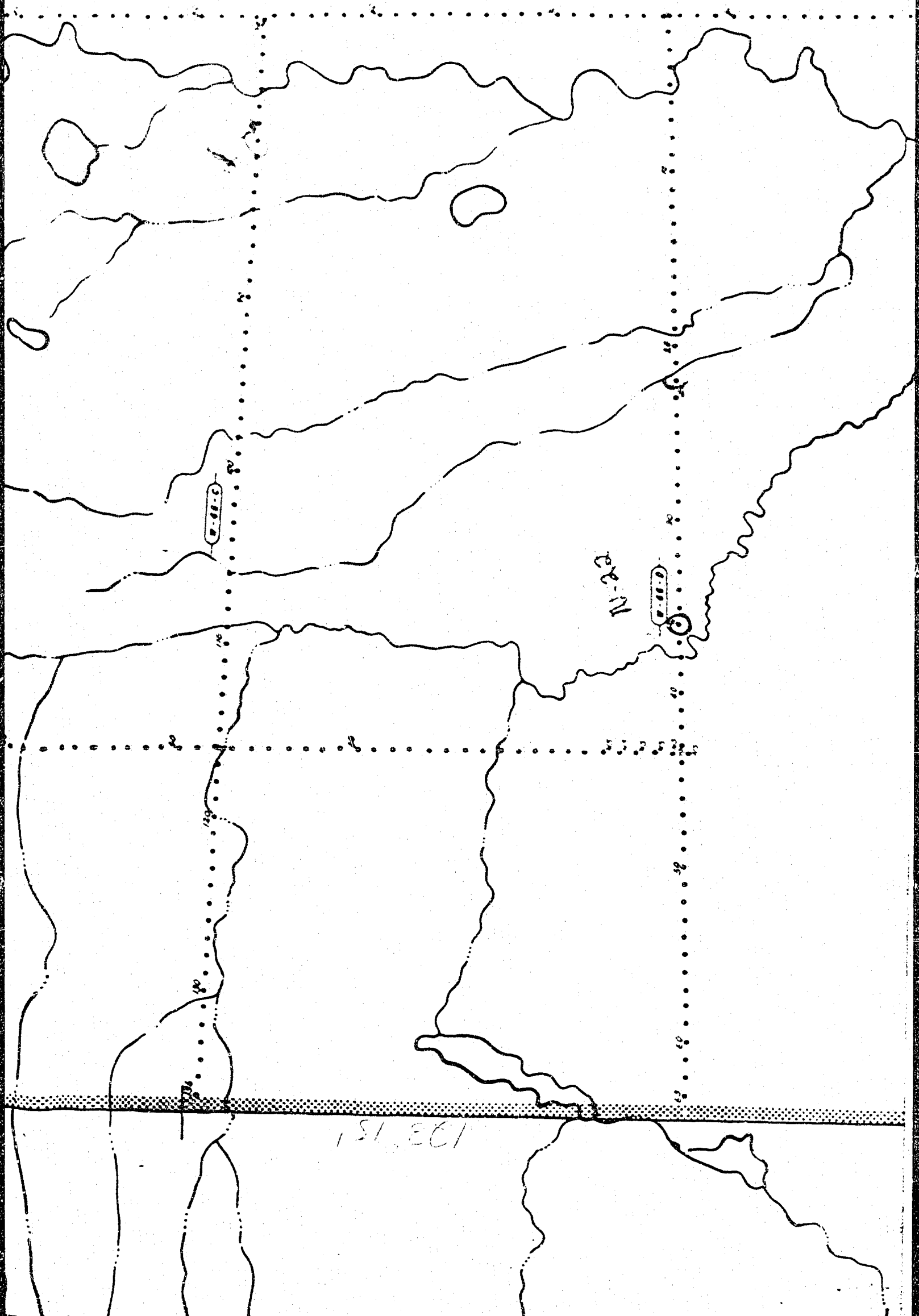
LAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER: **30GN426120123000**

51.15

22-N

151, ECI



WELL HISTORY
REPORT

PAN AM A-2 GRAINGER

N-42

UNIT N SECTION 42 GRID 61° 20' N 123° 00'

NORTHWEST TERRITORIES

WELL HISTORY
REPORT

PAN AM A-2 GRAINGER

N-42

UNIT N SECTION 42 GRID 61° 20' N 123° 00' W

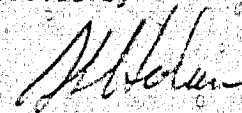
NORTHWEST TERRITORIES

By:

R.D. Torgerson

Petroleum Eng. J.C.

Approved by



A.F. Holan

Area Foreman



PAN AMERICAN PETROLEUM CORPORATION

444 - 7th Ave. S.W.

Calgary, Alberta

December, 1968

INDEX

SECTIONS

- I Summary of Well Data
- II Geological Summary
- III Engineering Summary
- IV Logs
- V Analysis
- VI Completion Summary

ATTACHMENTS

- Core Description
- Sample Description
- Core Analysis
- Water Analysis

SECTION 1

Summary of Well Data

- (a) Well Name & Number
Pan Am A-2 Grainger N-42
- (b) Permittee
Pan American Petroleum Corporation
- (c) Operator
Pan American Petroleum Corporation
- (d) Location
N-42 Grid Area 61° 20' 123° 00'
Lat. 6° 12' 00" Long. 123° 08' 42"
Universal Well Location Reference
Lat. 6° 20' 00" N Long. 123° 45' 00" W
Unique Well Location
300 N 426120123000
- (e) Co-ordinates
Nil
- (f) Permit No.
4940
- (g) Drilling Contractor
NAME: Brinkerhoff Bros. Ltd.
RIG: #38
TYPE: Rotary
- (h) Drilling Authority
#320
8-26-68
- (i) Classification
Exploratory Outpost
- (j) Elevations
Ground 785
K.B. 797

(k) Sounded
11-2-68

(l) Completed Drilling
11-27-68

(m) Depths
Total Depth 3515
Plug Back Depth No. Prod. casing run

(n) Well Status
Abandoned

(o) Rig Released
11-30-68

(p) Hole Size
9 7/8 " 0 - 340
6 3/4" 340 - 3515

(q) Casing

<u>Casing Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Amount</u>	<u>Set at</u>
7 5/8	N-80	29.7	11	340

Conductor Pipe 10' of 45 gallon barrels welded together.

SECTION II

Geological Summary

(a) Formation Tops
Nahanni Limestone 2985
Manetoe 3436
TD 3515

(b) Cored Intervals
#1 3466-3484 Rec. 15'

(c) Core Description
See attachment

(d) Sample Description
See attachment

SECTION III

Engineering Summary

(a) Drill Stem Tests - Report attached
D.S.T. #1 10-28-68 (3440-3515)
ISI - 60 Mins. T.C. - 60 Mins. F.S.I. - 60 Mins.
FHIP - 1504 ISIP - 1494 IFP - 248 P.F.P. - 1128
(Field Pressures) F.S.I.P. - 1494 FHIP - 1504 P.F. - 5 Min.
Small air blow through out test.
rec. 2125 feet salt water 160 feet drilling mod.

(b) Casing Record.

Conductor Pipe

10' of 45 gallon barrels welded together.
Recemented with 40 sacks cement + 2% CaCl_2

Surface Casing

Hole size 9 7/8"

Casing size 7 5/8"

Weight 29.0#

Grade N-80

Jts. Run 11

K.B. Setting Depth 340

Cement & Additives - 200 sxs o.w. plus 2% CaCl_2 plus
65 sxs o.w. from top.

Date Run 11-13-68

Date Completed 11-13-68

Intermediate & Production Casing

Nil

(c) Bit Record

<u>BIT #</u>	<u>SIZE</u>	<u>TYPE</u>	<u>MAKE</u>	<u>IN</u>	<u>OUT</u>	<u>FEET</u>	<u>HOURS</u>
1A	9 7/8	OSC	Hughes	0	84	74	1 1/2
2A	9 7/8	M4N	Sec	84	94	10	4 1/2
3A	9 7/8	YTIA-3	Reed	94	114	10	5 3/4
4A	9 7/8	YTIA-3	Reed	114	133	19	9 1/4
5A	9 7/8	YTIA-3	Reed	133	140	7	2
6A	9 7/8	S3	Sec	140	155	15	9
7A	9 7/8	YM	Reed	155	180	35	11 3/4
8A	9 7/8	YHWC	Reed	180	219	39	14 1/2
9A	9 7/8	OWC	Hughes	219	340	121	11

-4-

<u>BIT #</u>	<u>SIZE</u>	<u>TYPE</u>	<u>MAKE</u>	<u>IN</u>	<u>OUT</u>	<u>FEET</u>	<u>HOURS</u>
1	6 3/4	M4N	Sec	340	476	136	4 3/4
2	6 3/4	YT3	Reed	476	1413	937	11
3	6 3/4	M4N	Sec	1413	2038	625	10 1/4
4	6 3/4	OSC	Hughes	2038	2348	310	7 1/2
5	6 3/4	M4N	Sec	2348	2634	286	7 1/4
6	6 3/4	OSC	Hughes	2634	2823	189	9 1/4
7	6 3/4	YM	Reed	2823	2960	137	8
8	6 3/4	X55R	Hughes	2960	3336	376	20
9	6 3/4	X55R	Hughes	3336	3382	46	7 3/4
10	6 3/4	FBC4	Reed	3382	3455	73	14 3/4
coring	6 11/16	Christensen		3455	3473	18	
10	(rerun)	FBC4	Reed	3473	3515	42	4 3/4

(d) Mud Report

Gel Added 51,300 Lbs.
(Super Col)

or 1026 sxs

Caustic 150 Lbs.

or 3 sxs

Kwik Seal 14 Lbs.

(e) Deviation Record

<u>Depth</u>	<u>Deviation (degrees)</u>
193	3
312	1 1/8
340	1 3/4
689	2
1194	4 1/2
1413	3 3/4
1913	5
2038	5 1/2
2540	8 1/2
2603	8
2696	8
2759	8
2823	8
2960	8
3382	8

(f) Abandonment Plugs

Plug #1 11-29-68 (3385'-3515') 40 sxs

O.W. + 2% CaCl₂ no feel

Plug #2 11-30-68 (280'-400') 45 sxs

O.W. + 2% CaCl₂ felt @ 246' after 5 hrs.

(g) Lost Circulation Zones

1/ Formation

Zone Top

Depth 0-218

Amount of Material Lost 36,000lbs. Gel.

Corrective Measures Add gel.

(h) Report of Blowouts

Nil

SECTION IV LOGS

<u>DATE</u>	<u>RUN NO.</u>	<u>TYPE</u>	<u>INTERVAL</u>
11-28-68	1	I.F.S.	338-3509
	1	Gamma-Sonic Cal	338-3502
	1	Density	2900-3509
	1	Side Well Neutron	2900-3509
		Logs	
	1	Porosity-Lithology	2900-3509

SECTION V ANALYSIS

- (a) Core Analysis
- (b) Water Analysis
- (c) Gas Analysis - Nil
- (d) Oil Analysis - Nil

SECTION VI COMPLETION SUMMARY

Nil - Well was abandoned

UNIT N SECT. 42, GRID 61°12'00"N 123°06'42"W

SAMPLE AND CORE DESCRIPTIONS

0	-	80	Sand, loose, unconsolidated, fine to granular.
80	-	220	Gravel and boulders, probably very coarse to boulder size - all rock types - e.g. igneous metamorphic and sedimentary.
220	-	230	Gravel and boulders as above, 10% Shale, dark grey, probably weathered subcrop.
230	-	240	As above - increase in Shale. TOP SHALE 245'
240	-	260	Shale, medium dark grey, micaceous, silty, partly sandy - grades partly to silty, shaly Limestone and Siltstone.
260	-	340	Mostly Shale, micromicaceous, medium dark grey, partly platy, partly silty, fissile.
340	-	350	NO SAMPLE 7-5/8" Casing @ 340'
350	-	560	Shale, medium dark grey, monotonous, slightly micaceous and partly slightly silty, friable, trace calcareous, partly platy. Shale grades rarely to grey and brown shaly Siltstone.
560	-	1820	Shale as above.
1820	-	1870	Shale, black, bituminous? micromicaceous, slightly blocky, friable, trace pyrite and calcite veining.
1870	-	2620	Shale, medium dark grey, micromicaceous, as before, partly flaky.
2620	-	2650	80% Shale, grey as above. 20% Shale, black, micaceous, bituminous? platy in part.
2650	-	2670	Shale, 60% grey, 40% black, trace pyrite.
2670	-	2680	Shale, 70% black, 30% grey.
2680	-	2930	Shale, black as above, minor grey Shale, trace calcite veining and trace pyrite 2740' - 2750'.
2930	-	2940	Shale, black as above, becoming partly calcareous.
2940	-	2970	Shale, black, micaceous, calcareous. TOP NAHANNI LIMESTONE 2975'

- 2970 - 2980 Limestone, light brown to mostly dark to very dark brown and grey, tight, partly argillaceous, microcrystalline to very fine crystalline, partly mottled, partly fragmental, partly earthy - granular, minor very coarse clear calcite; 50% Shale as above.
- 2980 - 2990 Limestone, medium to very dark grey and brown, crypto-to microcrystalline, dense, and Limestone medium light brown, earthy, dense, microcrystalline, all apparently fragmental.
- 2990 - 3000 Limestone, medium dark brown, crypto-to rarely microcrystalline patches - ghost fragmental, dense and tight, trace very fine disseminated pyrite.
- 3000 - 3020 Limestone as above, partly mottled, trace white calcite veining
- 3020 - 3030 Limestone, cryptocrystalline to very fine crystalline, medium dark brown to very dark grey, argillaceous, very fragmental with clear cryptocrystalline cement, tight.
- 3030 - 3050 Limestone, crypto-to very fine crystalline as above, and Limestone, medium brown, very fine crystalline, granular, earthy, mottled, tight, white calcite veining.
- 3050 - 3070 Limestone, medium to very dark grey brown, microcrystalline, fragmental, trace shell fragments, partly very fine crystalline, sucrosic, tight; minor medium brown friable dense calcsiltite.
- 3070 - 3110 Limestone, micro-to fine and medium crystalline, medium to very dark grey and brown, mottled, fragmental, tight, rare coarse crystalline patches.
- 3110 - 3130 Limestone as above, micro-to very fine crystalline, mottled, fragmental, tight.
- 3130 - 3140 Limestone, medium dark brown, cryptocrystalline, dense; and Limestone, very dark grey, microcrystalline, argillaceous, dense.
- 3140 - 3160 Limestone, dark to very dark grey, slightly argillaceous, partly mottled, medium brown, micro-to very fine crystalline, dense, apparently fragmental.
- 3160 - 3170 Limestone as above, trace crinoids; and Limestone, light brown, very fine crystalline, sugary - earthy, tight.
- 3170 - 3180 Limestone as above; and Limestone, medium dark brown, crypto-crystalline, tight.
- 3180 - 3190 Limestone, mostly very dark grey, slightly argillaceous, micro-to very fine crystalline, fragmental (?), trace pyrite, tight.
- 3190 - 3200 Limestone, medium to very dark grey and brown, microcrystalline to fine crystalline, much mottled, fragmental, trace clear microcrystalline calcite.

- 3200 - 3210 Limestone as above, trace pyrite patches and vein calcite.
- 3210 - 3220 Limestone as above, partly cryptocrystalline.
- 3220 - 3250 Limestone as above - samples heavily contaminated with Shale caving.
- 3250 - 3290 Mostly cavings; Limestone cryptocrystalline to microcrystalline, dense, fragmental, rare very fine crystalline patches.
- 3300 - 3310 Limestone, cryptocrystalline, medium dark grey brown, dense, tight.
- 3310 - 3320 Limestone, microcrystalline, fragmental, trace medium to dark grey and brown, partly fine crystalline.
- NOTE: STUCK IN HOLE @ 3336' - HOLE CAVED IN - MUDDER UP HOLE AND FISHED PIPE OUT: SAMPLES STILL HEAVILY CAVED TO 3350'.
- 3320 - 3340 Limestone as above, trace pyrite.
- 3340 - 3390 Limestone, medium dark brown, cryptocrystalline, very fine crystalline streaks and patches, scattered fine clear and dark calcite eyes - much fragmental material.
- 3390 - 3410 Limestone as above, rare very fine crystalline patches, trace pyrite.
- 3410 - 3430 As above, minor medium brown fine grained. Calcarenite with cryptocrystalline cement.
- TOP MANEIOE 3445' on Drilling Break
- 3430 - 3440 Limestone as above and Dolomite milky white, coarse to very coarse crystalline, scattered disseminated pyrite, tight.
- 3440 - 3466 Dolomite as above, scattered poor intercrystalline porosity, trace light brown oil (?) stain, no cut., minor clear dolomite.

UNIT N-42, GRID 61°12'00"N 123°08'42"W

- COKE #1 3466' - 3484' Recovered 15'
- 3466 - 3446'8" Dolomite, milky, white and dark grey, slightly argillaceous, very coarse crystalline in irregular patches and wavy bands - few fine stylolites - minor very coarse calcite, scattered small pyrite patches, scattered intercrystalline and fine vuggy porosity, rare vugs to 1".
- @ 3446'8" Black Shale band, irregular 1/8" - 1/2" with disseminated pyrite euhedra throughout.
- 3446'8" - 3467'8" Dolomite, medium grey, slightly impure with irregular patches of very dark grey and white Dolomite - occasional very coarse crystalline calcite inclusions - scattered small pyrite patches - tight.
- 3467'8" - 3475'6" Dolomite, white and grey, very coarse crystalline as above, very patchy, few well developed stylolites and thin irregular black Shale partings.
- White Dolomite grades occasionally to calcite.
- Occasional fine pyrite euhedra.
- Several zones with fair to very good fine vuggy porosity.
- 3475'6" - 3477'6" Dolomite as above, partly calcareous; grey Dolomite streaks better developed, associated with well developed stylolites - scattered pyrite patches.
- Several well developed open vugs with large dolomite and calcite crystalline linings, may be up to several inches.
- 3477'6" - 3480'5" Interval mostly broken up due to excellent vuggy porosity. Dolomite, medium grey, dark grey, white, very coarse crystalline, crazy confused jumble - appears partly brecciated - white and grey calcite patches and crystals - excellent fine to very large vuggy porosity.
- 3480'5" - 3481' Dolomite, medium grey, very coarse crystalline as above - faint fine wavy banded appearance - dip irregular but essentially flat; few large white Dolomite and calcite patches; no visible porosity.
- 3481 - 3484 NO RECOVERY - Samples show Dolomite as above. Core emits fetid odour on freshly broken surface. No staining or fluorescence.
- 3484 - 3515 T.D.
Dolomite, white and grey, very coarse crystalline as above - calcite and dolomite euhedra indicate vug linings and vuggy porosity as above.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E68-8490-3

Received: Dec. 3, 1968 Reported: Dec. 4, 1968 Well: Location: Pan Am. A-2 Grainger N-42

Operator: Pan American Petroleum Corporation Field or Area: Grainger River, N. W. T.

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

Sample Interval: 3440' - 3515'

Method of Production: D.S.T. #1 Sampled from: Middle

Sampled by:

Date: Nov. 28, 1968

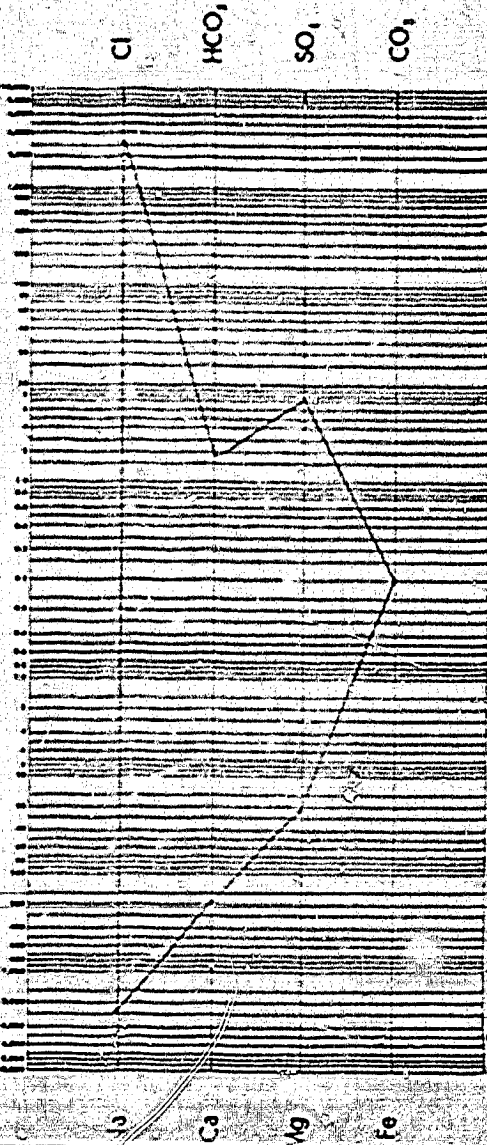
OTHER PERTINENT DATA

(Signed)

Na	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃	OH
67,022		3,423	303	354	110,000	---	110	---
2915.44		170.81	24.91	7.36	3102.00	---	1.80	---
46.85		2.75	0.40	0.12	49.85	---	0.03	---

Total Solids Mg/L: By Evaporation 191,100 Fe Present Specific Gravity 1.121 @60°F Observed pH 6.1 @ 78 °F
 Calculated 181,212 After Ignition 172,760 H₂SO₄ Refractive Index 1.3628 @25°C Resistivity 0.050 ohm meters @ 68 °F

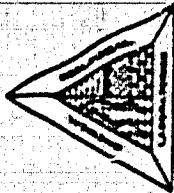
Pattern Unit Meq./L



Remarks and Conclusions

Sample consisted of muddy water. The filtrate was colourless.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.



OPERATOR: Pan American Petroleum Corporation **REPORT NUMBER:** E68-8490
DATE SAMPLED: November 28, 1968 **DATE RECEIVED:** December 3, 1968 **DATE REPORTED:** December 4, 1968
WELL: Pan Am. A-2 Grainger N-42 **INTERVAL:** 3440' - 3515' **FORMATION:** Manetoe
FIELD: Grainger River, N. W. T. **METHOD OF PRODUCTION:** D.S.T. #1

LABORATORY NUMBER	SAMPLE POINT	RESISTIVITY (OHM-METERS @ 68°F.)	REMARKS & CONCLUSIONS
E68-8490-1:	Mud Tank	2.02	Sample consisted of mud. The filtrate was colourless.
E68-8490-2:	Top	0.565	Sample consisted of mud. The filtrate was colourless.
E68-8490-3:	SEE COMPLETE WATER ANALYSIS.		
E68-8490-4:	Bottom	0.052	Sample consisted of mud. The filtrate had a yellowish discolouration.

CORE ANALYSIS REPORT
FOR
PAN AMERICAN PETROLEUM CORPORATION
PAN AM A-2 GRAINGER N-42
WILDCAT
NORTHWEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering
CALGARY - EDMONTON - REGINA

CORE LABORATORIES — CANADA, LTD.
CALGARY, ALBERTA

COMPANY	WELL	FIELD	LOCATION
PAN AMERICAN PETROLEUM CORPORATION	PAN AM A-2 GRAINGER	WILDCAT - NORTHWEST TERRITORIES	61°12'00"N, 125°09'42"W

[illegible]

DRILLING FLUID - WATER BASE MUD
ELEVATION
ANALYSIS - FULL DIAMETER

PAGE	FILE	DATE	ANAL.
76	90-801	10/11/89	WJG

- 1 of 3
- CNP-4-4451
- DEC. 23/68
- RM EW

DATE	DESCRIPTION	AMOUNT	BALANCE
1911	...	...	...
1912	...	...	...
1913	...	...	...
1914	...	...	...
1915	...	...	...
1916	...	...	...
1917	...	...	...
1918	...	...	...
1919	...	...	...
1920	...	...	...
1921	...	...	...
1922	...	...	...
1923	...	...	...
1924	...	...	...
1925	...	...	...
1926	...	...	...
1927	...	...	...
1928	...	...	...
1929	...	...	...
1930	...	...	...
1931	...	...	...
1932	...	...	...
1933	...	...	...
1934	...	...	...
1935	...	...	...
1936	...	...	...
1937	...	...	...
1938	...	...	...
1939	...	...	...
1940	...	...	...
1941	...	...	...
1942	...	...	...
1943	...	...	...
1944	...	...	...
1945	...	...	...
1946	...	...	...
1947	...	...	...
1948	...	...	...
1949	...	...	...
1950	...	...	...
1951	...	...	...
1952	...	...	...
1953	...	...	...
1954	...	...	...
1955	...	...	...
1956	...	...	...
1957	...	...	...
1958	...	...	...
1959	...	...	...
1960	...	...	...
1961	...	...	...
1962	...	...	...
1963	...	...	...
1964	...	...	...
1965	...	...	...
1966	...	...	...
1967	...	...	...
1968	...	...	...
1969	...	...	...
1970	...	...	...
1971	...	...	...
1972	...	...	...
1973	...	...	...
1974	...	...	...
1975	...	...	...
1976	...	...	...
1977	...	...	...
1978	...	...	...
1979	...	...	...
1980	...	...	...
1981	...	...	...
1982	...	...	...
1983	...	...	...
1984	...	...	...
1985	...	...	...
1986	...	...	...
1987	...	...	...
1988	...	...	...
1989	...	...	...
1990	...	...	...
1991	...	...	...
1992	...	...	...
1993	...	...	...
1994	...	...	...
1995	...	...	...
1996	...	...	...
1997	...	...	...
1998	...	...	...
1999	...	...	...
2000	...	...	...
2001	...	...	...
2002	...	...	...
2003	...	...	...
2004	...	...	...
2005	...	...	...
2006	...	...	...
2007	...	...	...
2008	...	...	...
2009	...	...	...
2010	...	...	...
2011	...	...	...
2012	...	...	...
2013	...	...	...
2014	...	...	...
2015	...	...	...
2016	...	...	...
2017	...	...	...
2018	...	...	...
2019	...	...	...
2020	...	...	...
2021	...	...	...
2022	...	...	...
2023	...	...	...
2024	...	...	...
2025	...	...	...
2026	...	...	...

[illegible]

CORED INTERVAL	3446' - 3464'	Tipically showed a correction of 20' in depth found (Core bottom showed actually from 3466' to 3482')
CORE NO. 1	3446' - 3464' (REC. 15') (3 BOXES)	

[illegible]

Core with Permeability less than 0.10 Millidarcys

Total footage of core with less than 0.10 millidarcys permeability-----
 Weighted average porosity of core with less than 0.10 millidarcys permeability-----
 Per cent of analyzed core having less than 0.10 millidarcys permeability-----
 Weighted average horizontal permeability of core with less than 0.10 md.-----
 Weighted average residual oil % pore space of core with less than 0.10 md.-----
 Weighted average total water % pore space of core with less than 0.10 md.-----

0.9'
 4.60% (4.14)
 12.68%
 0.07md. (0.063)

Core with Permeability 0.10 to 0.49 Millidarcys

Total footage of core with 0.10 to 0.49 millidarcys permeability-----
 Weighted average porosity of core with 0.10 to 0.49 millidarcys permeability-----
 Per cent of analyzed core having 0.10 to 0.49 millidarcys permeability-----
 Weighted average horizontal permeability of core with 0.10 to 0.49 md.-----
 Weighted average residual oil % pore space of core with 0.10 to 0.49 md.-----
 Weighted average total water % pore space of core with 0.10 to 0.49 md.-----

2.4'
 1.70% (4.08)
 33.79%
 0.30md. (0.718)

Core with Permeability 0.50 to 0.99 Millidarcys - NIL

Total footage of core with 0.50 to 0.99 millidarcys permeability-----
 Weighted average porosity of core with 0.50 to 0.99 millidarcys permeability-----
 Per cent of analyzed core having 0.50 to 0.99 millidarcys permeability-----
 Weighted average horizontal permeability of core with 0.50 to 0.99 md.-----
 Weighted average residual oil % pore space of core with 0.50 to 0.99 md.-----
 Weighted average total water % pore space of core with 0.50 to 0.99 md.-----

0.0'

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

PAN-AMERICAN PETROLEUM CORPORATION
PAN AM A-2 GRAINGER N-42

Page - 3 of 3
File - (XP-4-4451)

Core with Permeability 1.0 to 9.9 Millidarcys

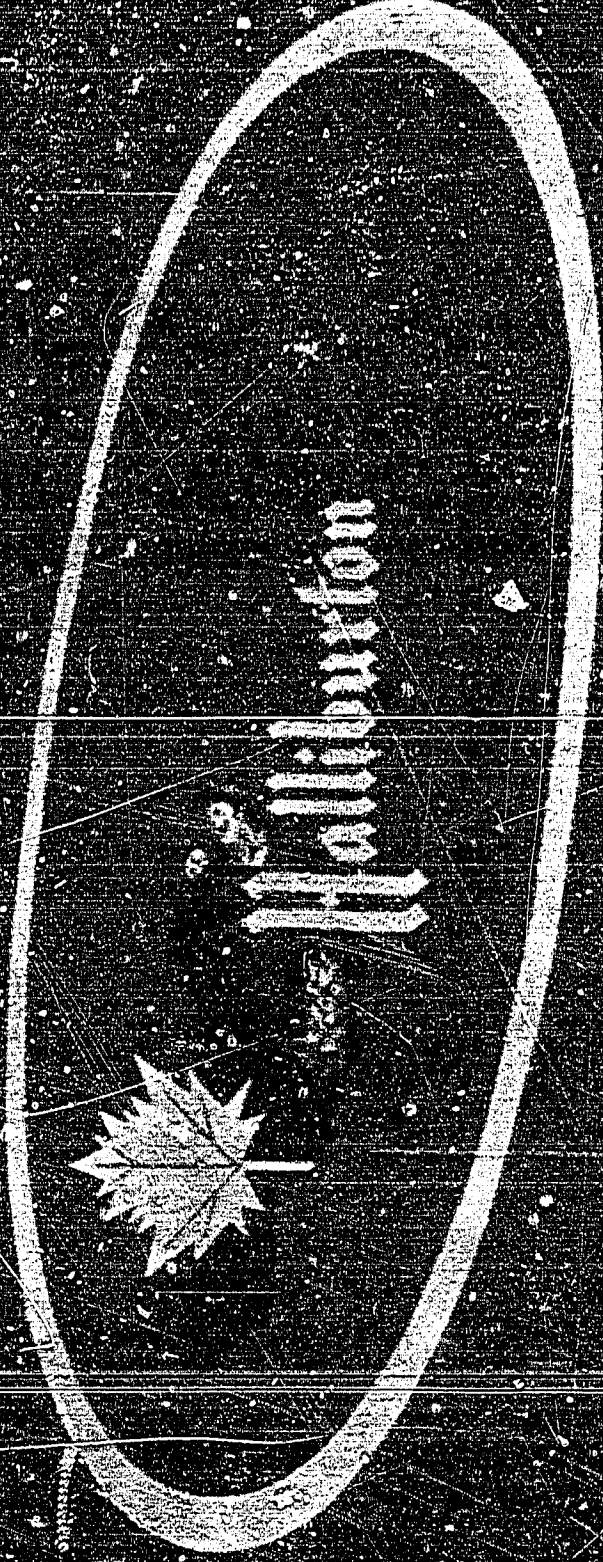
Total footage of core with 1.0 to 9.9 millidarcys permeability -----	2.2'
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability -----	2.36% (5.20)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability -----	30.99%
Weighted average horizontal permeability of core with 1.0 to 9.9 md. -----	3.67md. (8.076)
Weighted average residual oil % pore space of core with 1.0 to 9.9 md. -----	
Weighted average total water % pore space of core with 1.0 to 9.9 md. -----	

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeabilities 10 md. and greater -----	1.6'
Weighted average porosity of core with permeabilities 10 md. and greater -----	2.70% (4.32)
Per cent of analyzed core having permeabilities 10 md. and greater -----	22.54%
Weighted average permeability of core with permeabilities 10 md. and greater -----	15.69md. (25.104)
Weighted average residual oil % pore space of core with permeabilities 10 md. and greater -----	
Weighted average total water % pore space of core with permeabilities 10 md. and greater -----	

Cored Interval -----	3446.0' - 3464.0'
Total footage -----	18.0'
Footage analyzed -----	7.1'
Footage not analyzed -----	10.9'
Weighted average porosity of core analyzed -----	
Weighted average horizontal permeability of core analyzed -----	2.50% (17.74)
Weighted average residual oil % pore space of core analyzed -----	4.78md. (33.961)
Weighted average total water % pore space of core analyzed -----	

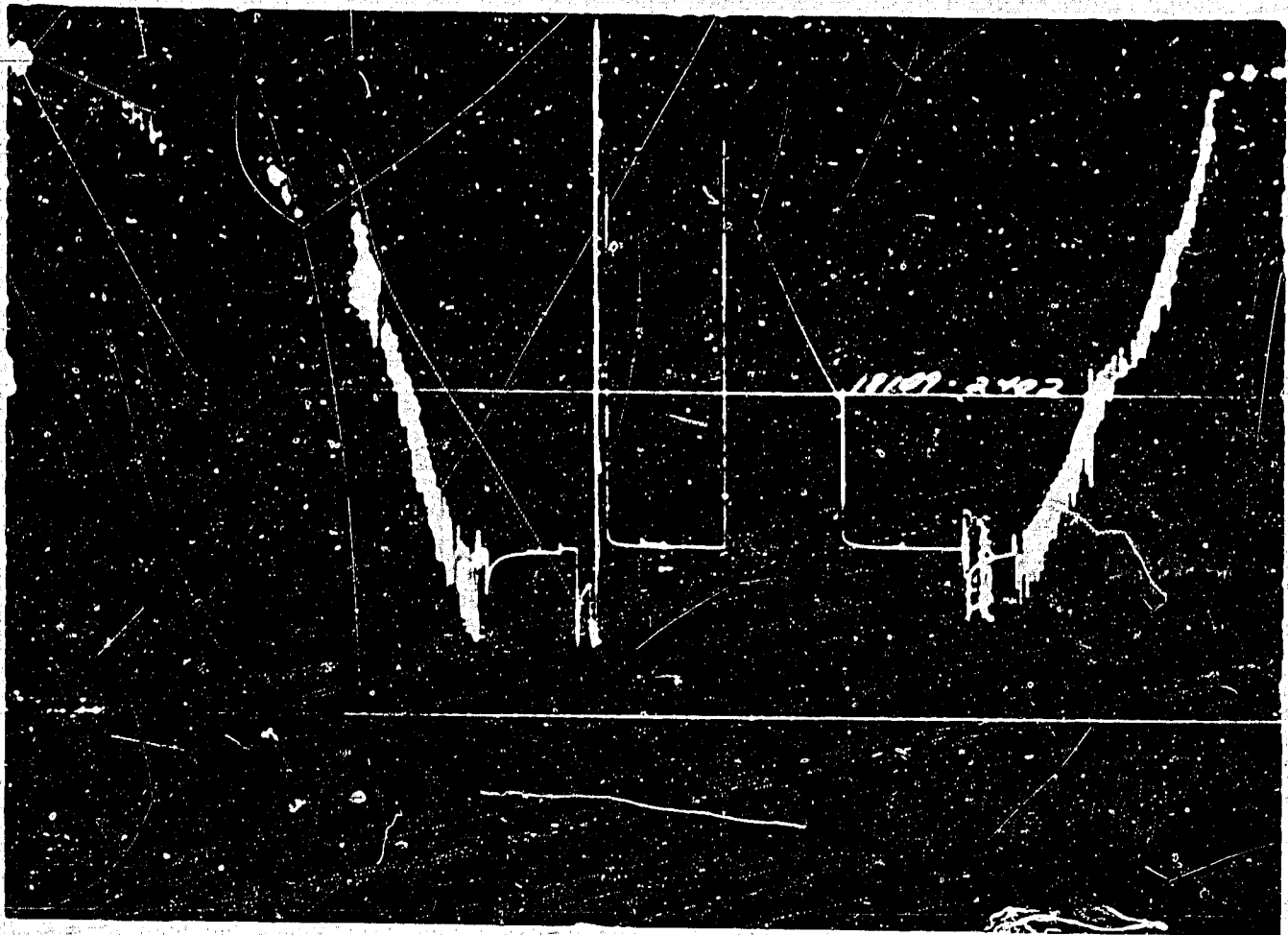
Note: Figures in parentheses indicate porosity feet and permeability feet.



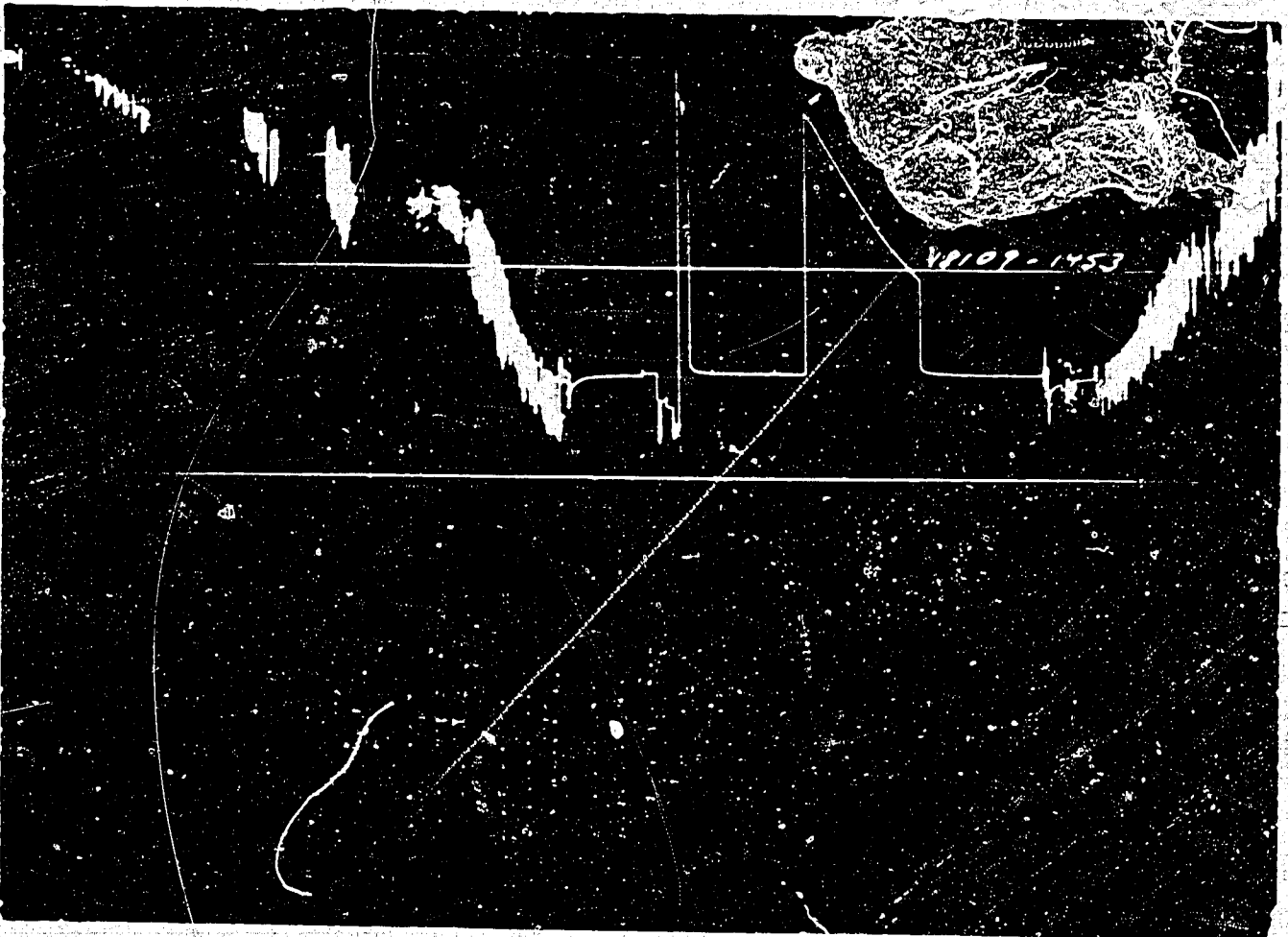
*Your...
Formation Testing Service Report*



Your...
Formation Testing Service Report



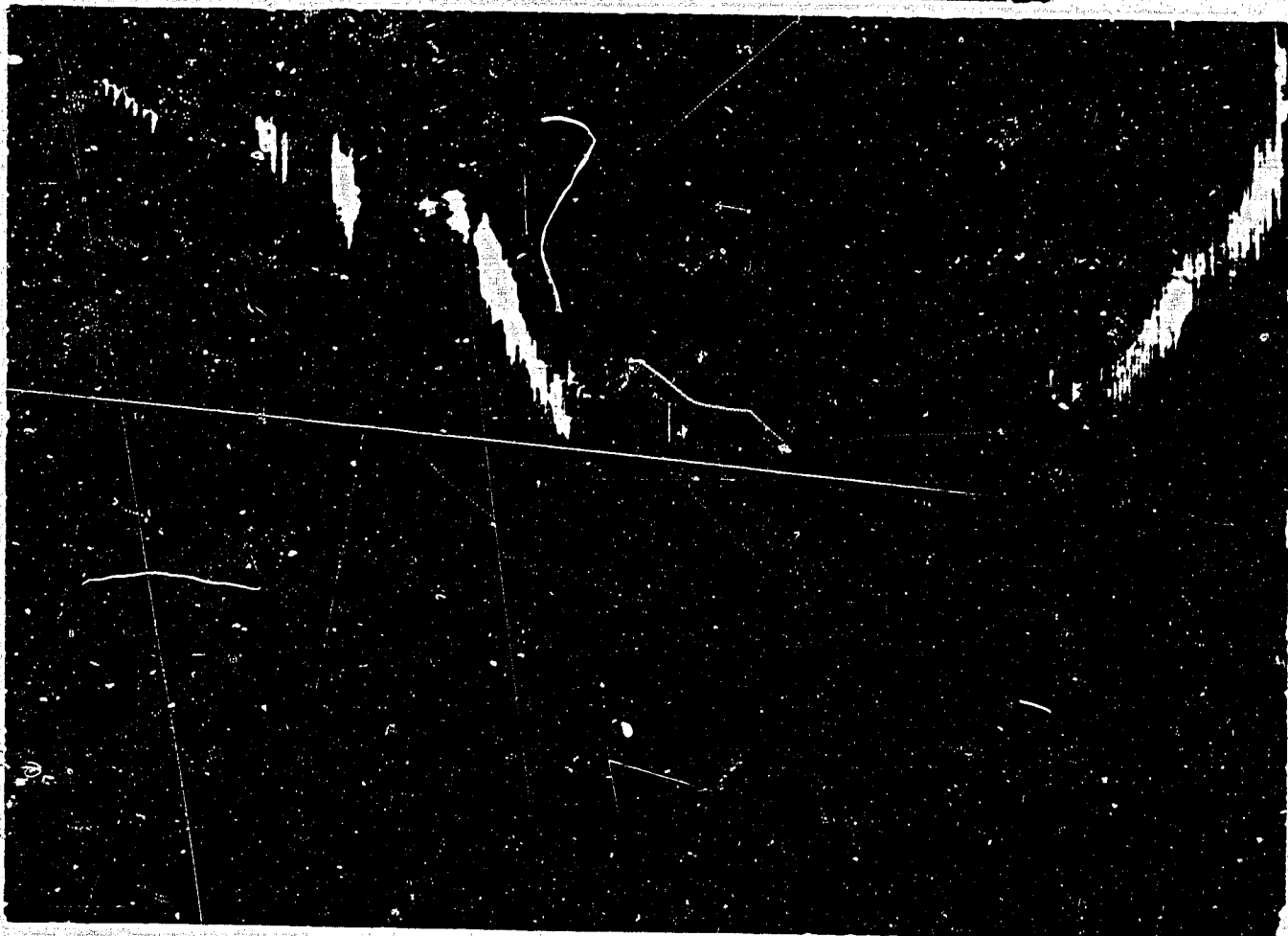
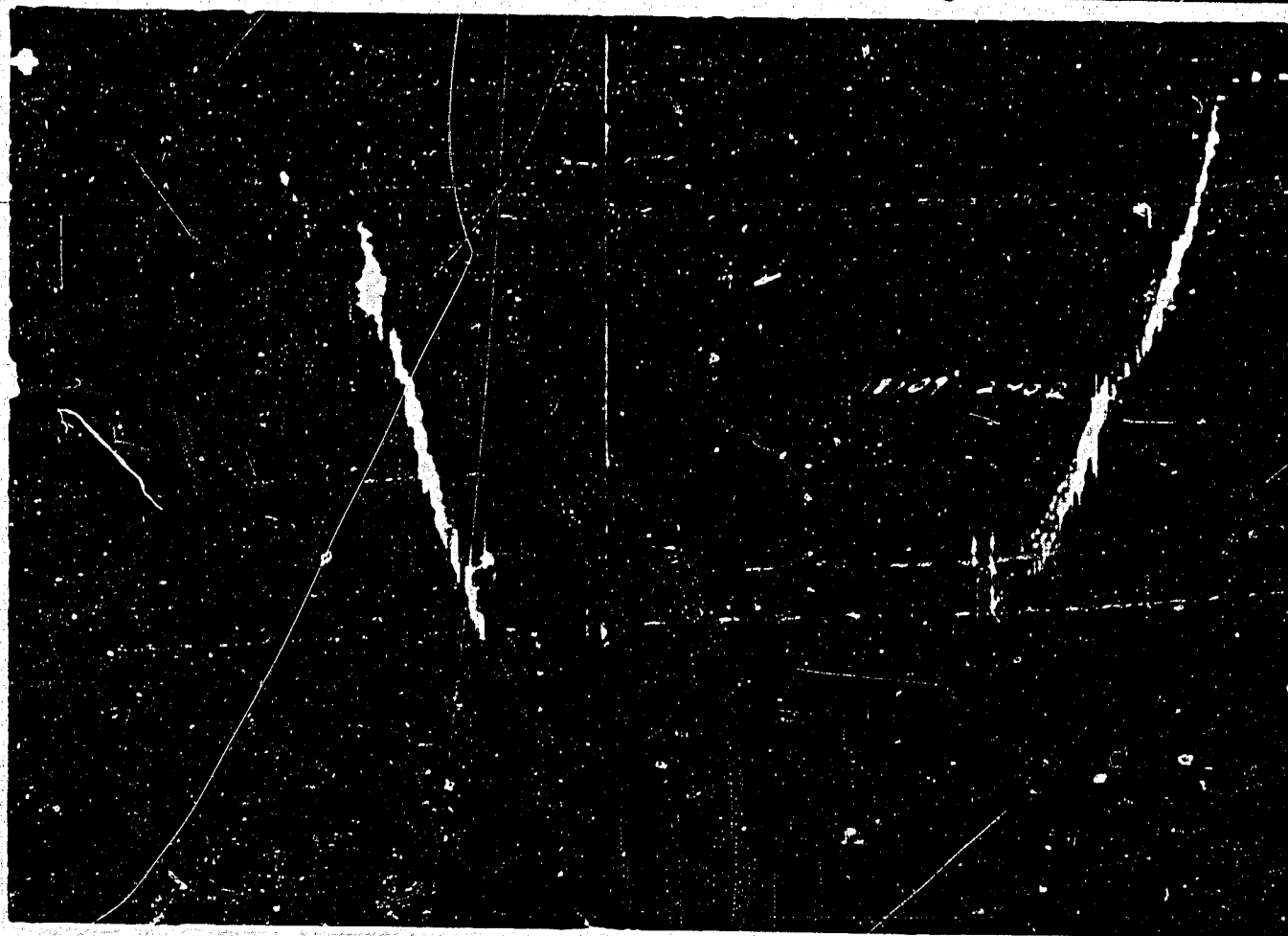
TIME



Each Horizontal Line Equal to 1000 p.s.i.

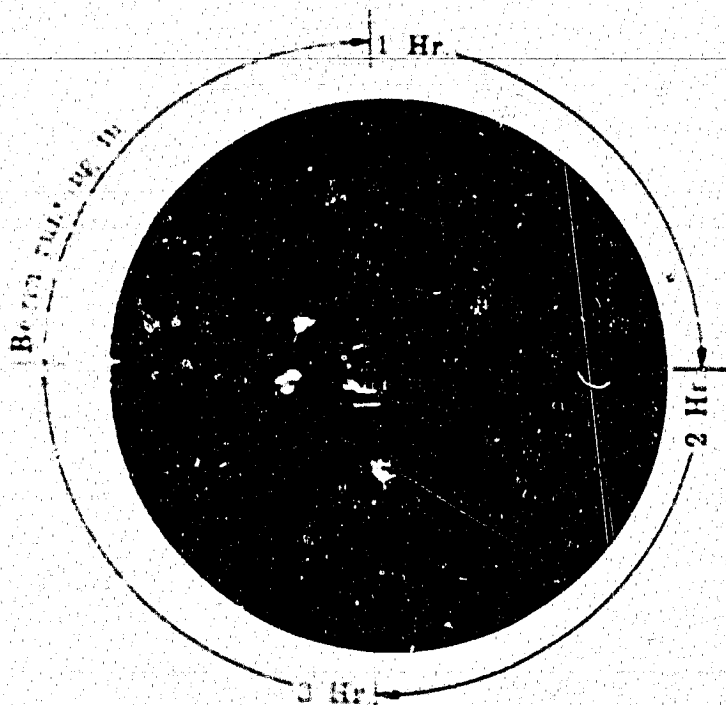
PRESSURE

TIME



Each Horizontal Line Equal to 1000 p.s.i.

TEMPERATURE RECORD	
Each concentric line equals 10 F	
Temperature increases outwardly	
Ticket No. <u>18107</u>	
Temperature Range : <u>70</u> F to <u>170</u> F	
A to B — Initial CIP	
B to C — 2nd Fly	
C to D — Final CIP	
A	°F
B	°F
C <u>MAX</u>	°F
D <u>86</u>	°F
<u>3428</u>	



HOWCO 521020



741

50

571

BT No. 2402 Depth 3424

12 Hr. Clock No. 9028 Temperature Corrected to 80 °F

1st Flow Pressure				Initial CIP				2nd Flow Pressure				Final CIP			
Time Diff. 000" T-P10	PSIG Temp. Corr.	Time Diff. 000" 0	T-0	T-0 0	PSIG Temp. Corr.	PSIG 10° 'Gas'		Time Diff. 000" T-P10	PSIG Temp. Corr.	Time Diff. 000" 0	T-0	T-0 0	PSIG Temp. Corr.	PSIG 10° 'Gas'	
P0	.000	92	.0000			237		.0000	244	.0000			1038		
P1	.019	179	.0375			1482		.0375	127	.039			1479		
P2	.038	237	.0750			1486		.0750	425	.078			1483		
P3			.1125			1488		.1125	518	.117			1484		
P4			.1500			1488		.1500	606	.156			1485		
P5			.1875			1489		.1875	690	.195			1486		
P6			.2250			1489		.2250	768	.234			1487		
P7			.2625			1489		.2625	841	.273			1487		
P8			.3000			1489		.3000	913	.312			1488		
P9			.3375			1489		.3375	978	.351			1488		
P10			.3750			1489		.3750	1038	.390			1488		

BT No. 1453 Depth 3512

12 Hr. Clock No. 3800 Temperature Corrected to 86 °F

1st Flow Pressure				Initial CIP				2nd Flow Pressure				Final CIP			
Time Diff. 000" T-P10	PSIG Temp. Corr.	Time Diff. 000" 0	T-0	T-0 0	PSIG Temp. Corr.	PSIG 10° 'Gas'		Time Diff. 000" T-P10	PSIG Temp. Corr.	Time Diff. 000" 0	T-0	T-0 0	PSIG Temp. Corr.	PSIG 10° 'Gas'	
P0	.000	176	.000			280		.000	277	.000			1072		
P1	.018	220	.040			1514		.040	355	.041			1511		
P2	.036	280	.080			1518		.080	456	.082			1515		
P3			.120			1519		.120	550	.123			1517		
P4			.160			1520		.160	638	.164			1518		
P5			.200			1521		.200	725	.205			1518		
P6			.240			1521		.240	804	.246			1518		
P7			.280			1521		.280	880	.287			1519		
P8			.320			1521		.320	950	.328			1519		
P9			.360			1521		.360	1014	.369			1519		
P10			.400			1521		.400	1072	.410			1519		

Intervals of Pressure Readings (Minutes): 1st Flow Pressure 2.5 Initial CIP 6.0 2nd Flow Pressure 6.0 Final CIP 6.0

Remarks:

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BANKERHOFF Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Dec 1 1968
LEASE NAME Granger River WELL NO. B-2 FIELD Willcat
FIRST TOUR FROM 1200 M. TO 800 M.

[illegible]

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

[illegible]

SECOND TOUR FROM 800 M. TO 400 M.

[illegible]

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							115		
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE <i>Kasim Pasha</i>		

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
					Finish moving Rig clean up mess.
					Cut 10 ft casing & Run Top plug 50 ft
					Run 10 ft. Pottery cement trap 50 ft. & 50 ft.
					Rig 1st Pottery on Saturday @ 11:00 p.m.
					Dec 1-68

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		Rig crews Fourn out Dec-2-68-							
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		W. A. Kuyper	
								DRILLER'S SIGNATURE Gordon Kuyper	

APPROVED W. A. Henderson
PAN AMERICAN REPRESENTATIVE

APPROVED John E. [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER _____ CONTRACTOR'S NAME BRENKIE RHOFF 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 30 1968
 LEASE NAME Granger River WELL NO. A-2 FIELD W/CAT
 FIRST TOUR FROM 12 A.M. TO 8 A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				RUN PLUG #2
12 ⁵⁸	8 ⁰⁰				W.O.C.
Plug #2 - 400' - 280' Cemented w/ 45 sks oil well Cement w/ 2 1/2 Gal Cl ₂ Slurry volume 49 cu ft 15' Slurry. Pumped Down @ 12:15 A.M. Displaced w/ 1/2 8 1/2" H-20					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
									W/A Kuysters
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15	W.O.C.			Wait on Cement
8:15					Reel For top plug
					Lay Down 45 sks pipe to B.O.O.
	4:00				Clear mud Tanks & out Rig
					Felt For top Plug
					Top of plug @ 246'
Rig Released @ 4:00 P.M. Nov-					

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		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	12:00				Test out
					Cut OFF Casing & Run Top Plug 5 sks
					& weld Plate on top OF Casing
					Boiler Released @ 12:00 mid
					Nov-30-68

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

W. A. Kuysters
 PAN AMERICAN REPRESENTATIVE

APPROVED

John Spence
 CONTRACTOR'S REPRESENTATIVE

LEASE NAME Granger River WELL NO. A-2 FIELD Wildcat

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

[illegible]

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		RIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>John F. [Signature]</i>		

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	10 ³⁰				W.D.O.
10 ³⁰	11 ³⁰				Run in Drill Collar
11 ¹⁰	1 ⁰⁰				Lay down drill L. Collar & BS
1 ⁰⁰	2 ⁰⁰				Run in drill Pipe open End.
2 ⁰⁰	4 ⁰⁰				Pick up 2 drill collar & STEAM OUT
					SEAL PIPE

DAY	WORK	HOURS	RATE	HOURS	RATE	HOURS W/D PIPE

DRILLER'S SIGNATURE										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE <i>Kenneth R. Smith</i>	

THIRD TOUR FROM 400 M. TO 1200 M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				Run down
4:15	4:45				Drill running in gear and rig up + run cement plug #1
4:45	6:00				Back + stands in derrick + lay down next pipe
6:00	10:30				Lay down collars run in 6 stands
10:30	11:30				Break rig + rig up to run plug #2
11:30	12:00				Plug #2 3515' - 2325' Cemented of 40% oil well cement w/ 2% Cal Cl ₂ 43.6 cu. ft. 18.5" slurry Displaced w/ 23 bbls mud - 414g down @ 6:45 p.m.

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

DAYWORK RECORD									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
									W A Kingstons
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE	Gordon Frankel

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACT NAME BRINKERHOFF BROS 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 28 1962
 LEASE NAME Granger River WELL NO. A-2 FIELD W/Cat

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC
FROM	TO		FROM	TO	
1200	1245				CIRC
1245	100				RIG SERVICE ✓ BOP'S
100	430				HOIST TO TEST
430	700				MAKE UP * SERVICE TOOL
700	800				RUN IN W/ D.S.T. No 1.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		1230	87	130			21	6 3/4	REARUN FBC4
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>John Gray</u>				

SECOND TOUR FROM _____ M. TO _____ AM.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
800	815				RIG SERVICE w BOP'S
815	900				Rig up TESTING RISER + STEAM OUT FLOOR LINE
900	1000				RUN IN W/ D.S.T. No 1
1000	210				TESTING W/ HALIBUTON
210	400				HOIST D.S.T. No 1
D.S.T. No 1 3515-3440. Dug B.N. Rec. 2285' Fluid - 160' Dry mud					
+ 2125' Salt Water IN 1504-151-1494-1.F-248-F.F-1038					
Per 1497 F.H. 1508					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
									W.A. Kuyatka
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>Kasimir Pruski</u>				

THIRD TOUR FROM 400 P.M. TO 1200 P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
400	415				RIG SERVICE w BOP'S
415	515				HOIST D.S.T. No 1
515	700				BREAK DOWN TESTING TOOLS
700	800				Rig up To Log
					Logging

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							21	6 3/4	3221 B. J. 30
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>Gordon Kuyatka</u>				

APPROVED

W.A. Kuyatka
PAN AMERICAN REPRESENTATIVE

APPROVED

Leota Anderson
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

 RIG NUMBER 38 CONTRACTOR'S NAME BRINKERHOFF DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 27 1962

LEASE NAME _____ WELL NO. _____ FIELD _____

 FIRST TOUR FROM 12 AM. TO 8 AM.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				RIG SERVICE V BOPS
12 ¹⁵	2 ³⁰				PICK UP TARS & RUN IN
2 ³⁰	3 ³⁰				CIRC. & CLEAN TO BOTTOM
3 ³⁰	8 ⁰⁰		3446	3464	CUT CORE NO #1
					10' IN 4 1/2 HOURS.
					DUMP PORE PRESS 15.0 5 1/2 X 1 1/4 X 36

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							20	6 1/2	CHRIS Q
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <i>John F. Hughes</i>		

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	8 ¹⁵				Rig Service V BOPS
8 ¹⁵	8 ⁴⁵				Blow KELLY
8 ⁴⁵	10 ⁰⁰				HOIST CORE NO I
10 ⁰⁰	11 ³⁰				RECOVER CORE
11 ³⁰	12 ⁰⁰				W.D.O.
12 ⁰⁰	1 ⁰⁰				LAY DOWN CORE BDL.
1 ⁰⁰	4 ⁰⁰				RUN IN WITH B.T.

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 <i>Norman P. ...</i>		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ¹⁵				RIG SERVICE & BOPS
4 ¹⁵	1 ³⁰		3446	3464	REAM 10' TO BOTTOM
1 ³⁰	2 ⁰⁰				WORK ON PUMP (SUCKTION)
2 ⁰⁰	11 ⁴⁵		3464	3495	DRILL
11 ⁴⁵	12 ⁰⁰				Circ.

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	6 ⁰⁰	8.6	100			21	6 3/4	RECON FBCH
		10 ⁰⁰	8.6	140					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <i>Norman P. ...</i>		

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER _____ CONTRACTOR NAME BRINKERHOFF PROS. 24 HOUR PERIOD ENDING AT MIDNIGHT NOV 25 1968
 LEASE NAME GRANGER RIVER WELL NO. A-2 FIELD W/CAT
 FIRST TOUR FROM 12 A.M. TO 8 A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				RIG SERVICE ✓ BOPS
4:15	3:00				FINISHED TRIP
3:00	8:00		3382	3408	DRILL 6 3/4 HOLE
BIT NO 18 OUT AT 3382 46' 7 1/2 HR 11'					
PUMP PRESSURE 1000 5 1/2 X 14 X 6.7					
BIT NO 19 5 HR 26 FEET					

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	8.6	11			19	6 3/4	FBC4 REED
		7:00	8.6	11					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							John R. Froy		

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Service & BOPS
8:15	4:00	drilling	3408	3441	drilling

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
Pump Press	900	10:00		110			19	6 3/4	FBC4 Reed
APM	55	2:00		100					
FT	59								
HM	12 3/4								
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							Kearney Prasher		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				Rig Service & BOPS
4:15	6:15		3441	3455	Drill sample
6:15	7:15				Start to core
7:15	10:30				Pick up core barrel
10:30	12:00				& run in
BIT NO. 19 DEPTH OUT 3455 FOOTAGE 73' HRS 14 3/4					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		6:00	86	100			19	6 3/4	FBC4
							20		
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							Gordon Kaborchi		

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

 RIG NUMBER 38 CONTRACTOR'S NAME Franklin & Son 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 25 1960

 LEASE NAME Shawnee River WELL NO. A-3 FIELD Myer

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Rig Service & BOPS.
12:15	1:00				Break down Blow Tool
1:00	3:00				Run in with Bit #18
3:00	4:00				Take out Standpipe
4:00	8:00				Running to Bottom
					Engage the hole.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		6:00	8.6	120			19	6 3/4	X55R - HW
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Burke & Sons 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 24 1960
 LEASE NAME Quincy River WELL NO. A-2 FIELD Wichita

FIRST TOUR FROM 12:00 A.M. TO 6:00 A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Ry Service & BOP'S Pipe & cleaning to Fish
12:15	3:00				
			3336	3336	

DAYWORK: HOURS		RATE		HOURS		RATE		HOURS W/D PIPE	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
800*	CEH	2:00	9.6	100			17	6 3/4	X552 - HW
		6:00	9.6	120					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		DRILLER'S SIGNATURE	
								Ron Sigurdson	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	10:30				CIRC. TOP OF FISH TRIP OUT PICK UP BEAR TOOL TRIP IN OPEN END
10:30	1:15				
1:15	2:30				
2:30	4:00				

DAYWORK: HOURS		RATE		HOURS		RATE		HOURS W/D PIPE	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		9:00		125			18	6 3/4	X552 - HW
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		DRILLER'S SIGNATURE	
								John Freese	

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
6:00	6:10				Work fish down Circ. To Hoist fish Hoist fish
6:10	7:30				
7:30	12:00				

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	
								Herman Rieck	

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Prior Drilling Firm 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 23 1965
 LEASE NAME Whisper River WELL NO. B-2 FIELD Whisper

FIRST TOUR FROM 12:00 A.M. TO 2:00 P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Run Service & BOP'S
12:15	6:00				Run string shot.
6:00	8:00				Try to Break Circulation.

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

DAYWORK: HOURS									
QUANTITY	MUD MATERIAL ADDED	TIME	WY.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							18	6 3/4	X55R - HW
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		
							DRILLER'S SIGNATURE <i>Row Signature</i>		

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 22 1965
LEASE NAME Shawnee River WELL NO. A-2 FIELD W. Cat

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12.00	12.00				Working light hole
	8.00		3236	3336	Working light hole

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

[illegible]

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

[illegible]

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

[illegible]

THIRD TOUR FROM _____ M. TO _____ M.

[illegible]

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	<i>Norman W. [Signature]</i>	

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED John J. Seard
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Pinkberry Bros. 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 21 1968
 LEASE NAME Shingler River WELL NO. A-2 FIELD Shingler

FIRST TOUR FROM 12:00 A.M. TO 4:00 A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Rig Service & BOP's
12:15	2:15		3021	3118	Drill 6 3/4" hole
2:15	2:45				Work on 2" valve on 4" mud pump
2:45	2:55		3118	3236	Drill 6 3/4" hole
					Bit to Depth 3236' Has on Bit #17 1 1/2"
					Footage 276. Pump Pressure 800 & pump stroke 66
					P.R.M. 50. P.W.T. 13. L.S. 5 1/2 112

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							17	6 3/4	X55R - H.W.
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				

DRILLER'S SIGNATURE Pinkberry Bros.

SECOND TOUR FROM 6:00 A.M. TO 4 P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Serv. & BOP's
8:15	2:00				Drill 6 3/4" Hole
2:00	11:00				Work on water + steam lines
					Bit No 17 376' in 20 hr.
					Pump Pressure 800 - 5 1/2 x 14 x 68

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							17	6 3/4	X55R - H.W.
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				

DRILLER'S SIGNATURE John Frey

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				Rig Serv. & BOP's
4:15	5:30				Work on water lines
5:30	9:00				Hoist Bit
9:00	9:10				Clean Mud Tanks
9:10	12:00				Run in Bit No 18

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							19	6 3/4	X55R - H.W.
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				

DRILLER'S SIGNATURE Maxim P. ...

APPROVED John ...
PAN AMERICAN REPRESENTATIVE

APPROVED John ...
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 35 CONTRACTOR'S NAME Bushnell & Sons 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 20 1962
 LEASE NAME Shingler River WELL NO. A-2 FIELD Alfalfa

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Rig Setup & BOP's
12:15	12:30		2958	2960	Wdg 6 3/4" hole.
12:30	12:45				Survey
12:45	1:00				Work on Bailer
1:00	6:15				Trip for Bit #16.
6:15	7:15				Well Tight Hole
7:15	8:00				Running to Bottom

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
Bit #6	Drill cut 2960						16	6 3/4	VM REED
Footage	136' HRS. 2						17	6 3/4	X55R HW
Run in	800'								
"	Wdg 6 5								
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
		Totco		2960		8°			
							DRILLER'S SIGNATURE		Ron Sigurdson

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	9:55				TRY TO UNPLUG BIT
9:55	9:30				DRILL SERV. V BOP
9:30	12:00				TRIP OUT PLUGGED BIT
12:00	1:00				CLEAN SECTION TANK &
1:00	2:00				UN PLUG COLLAR
2:00	3:30				TRIP LN
3:30	4:00				REAM TO BOTTOM.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							17	6 3/4	X55R HW
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE		John Fry

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	5:15				Rig Setup & BOP's
5:15	5:15				REAM TO BOTTOM
5:15	12:00		2960	3021	Wdg 6 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
907	Pump Press						17	6 3/4	HW, X55R, B0746,
50	R.P.M.							6 3/4 Hr.	
12	Powder Wt.								111 ft.
3 x 12 x 66	Pump Liner & R.P.M.								
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE		Hassan Proctor

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 19 1960
LEASE NAME Meinzer Tract WELL NO. A-2 FIELD Self Cont

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Rig Service / BOP'S
12:15	1:30		2634	2696	Drill 6 3/4" Hole.
1:30	2:00				Survey
2:00	5:00		2696	2757	Drill 6 3/4" Hole
5:00	5:30				Survey
5:30	8:00		2757	2788	Rig #15 Nos. 6 3/4 Footage 154 Drill 6 3/4" Hole
					Run Pressure 800" STROKER 70 5 1/2 x 12

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

DAYWORK: HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			WATER					15	6 3/4	OSC - NEW.
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
		Totco			2696		92			
		Totco			2759		92			
		DRILLER'S SIGNATURE							Don Siquelero	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15		2798		RIG SERVICE Check BOP's
8:45	10:45			2823	DRAG 6 3/4" HOLE
10:45	11:00				SURVAY "
11:00	1:45				TRIP OUT
1:45	2:45				WORK ON BOILER
2:45	3:30				RUN IN
3:30	4:00				REAM 3 1/2" TO BOTTOM

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

DAYWORK - HOURS										KIND	
QUANTITY	MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE		
BIT NO 15 OUT			AT 2823					15	6 1/4	DSA-3 H W	
189' 9 1/4 HR								16	6 3/4	YM REED	
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
PS1 800 5 1/2 x 12 x 70 TC0					2823		8°				
							DRILLER'S SIGNATURE		John E. [Signature]		

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

[illegible]

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

QUANTITY		MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
					WATER				16	6 3/4	Red YM, T
											SN. A 32847
					DEVIATION INSTRUMENT				DEPTH		DEGREES OFF
											7 1/2, Hm
											135 ft.
									DRILLER'S SIGNATURE		Hossein Piroozli

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED John Speaks
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR NAME Brinkerhoff Bros. 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 18 1960
LEASE NAME GRINGER RIVER WELL NO. A-2 FIELD

FIRST TOUR FROM 1200 M. TO 200 M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ⁰⁰				Rig Service + Bore.
12 ⁰⁰	5 ⁰⁰		2180	2340	Drill
5 ⁰⁰	8 ⁰⁰				Drill for bit
B.T. No. 13 HAS 7 1/2 FOOTAGE 310 T.B.G. 14/8/11 PUMP PRESSURE-800" STROKES-20 5 1/2 x 12					

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

QUANTITY		MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
			WATER					13	6 3/4	OSC-J
			DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
								DRILLER'S SIGNATURE Gordon K. Kishi		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Service / BOP's
8:15	8:45				Run in initial Bit #14
8:45	4:00		2348	2550	Log 6 3/4" hole
					Bit #18 Has 7 1/4' Footage 202'
					seal pressure - 800" Stroke - 70 5 1/2 x 1 1/2

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

DAYWORK HOURS		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
QUANTITY	MUD MATERIAL ADDED	WATER					14	6 3/4	MUD - SEC.
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE <i>How Squidone</i>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ⁴⁵		2550	2571	DRLOG 1 3/4 HOLE
4 ⁴⁵	5 ⁰⁰				RIG SERV V
5 ⁰⁰	5 ¹⁵				SURVAY
5 ¹⁵	6 ⁴⁵		2571	2603	DRLOG
6 ⁴⁵	7 ⁰⁰				SURVAY
7 ⁰⁰	12 ⁰⁰		2603	2634	DRLOG

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

DAYWORK: HOURS		RATE		TIME		WT.	VIS.	FL. LOSS	CAKE		OIT NO.	SIZE	KIND
QUANTITY	KUD MATERIAL ADDED												
PUMP	PSI 800										14	6 3/4	MUN SEC
5 1/2 x 12 x 70											15	6 3/4	H.W. OSC.
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF							
BIT NO 14 OUT AT		TOTCO		2540		8 1/2							
2634 - 4-3-1		110		2603		8°		DRILLER'S SIGNATURE		James Frey			

286' IN 10 3/4 HR.

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BEINKERHOFF BROS. 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 17 1957
 LEASE NAME GRAINGER RIVER WELL NO. A-2 FIELD _____

FIRST TOUR FROM 12⁰⁰ A.M. TO 8⁰⁰ A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig Service + BOPS.
12 ¹⁵	1 ⁴⁵		1286	1413	Only
1 ⁴⁵	2 ⁰⁰				Drop survey
2 ⁰⁰	5 ⁰⁰				Trip for bit
5 ⁰⁰	5 ³⁵				Regain 20' to bottom
5 ³⁵	8 ⁰⁰		1413	1568	Only (Pump strokes 70 - Rev. 800) BIT OUT 1413 - FOOTAGE 932 ft/Hrs 11

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							11	6 3/4	YT3 12 1/2
							12	6 3/4	M4N - SEC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
		Totco		1413		3 3/4			
								DRILLER'S SIGNATURE <u>London K. K.</u>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	8 ¹⁵				Rig Service + BOPS.
8 ¹⁵	2 ¹⁵		1568	1913	Only 6 3/4" hole.
2 ¹⁵	2 ³⁰				Survey
2 ³⁰	4 ⁰⁰		1913	1930	Only 6 3/4" hole.
Pump strokes 70 rev. 800 Bit #12 - 10 1/2 hr 577 feet (1 hr)					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
			8.4	28			12	6 3/4	M4N - SEC.
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
		Totco		1913		5.0			
								DRILLER'S SIGNATURE <u>Row Sigmund</u>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ⁴⁵		1940	2038	DRILL 6 3/4" HOLE
4 ⁴⁵	5 ⁰⁰				RIG SERVICE CHECK BOPS
5 ⁰⁰	5 ¹⁵				SURVAY
5 ¹⁵	8 ³⁰				TRIP FOR BIT
8 ³⁰	8 ⁴⁵				CLEAN 25' TO BOTTOM
8 ⁴⁵	9 ³⁰		2038	2075	DALG
9 ³⁰	10 ⁰⁰				TIGHTEN PUMP MOTOR CLUCH

DAYWORK: HOURS 20 1/2 RATE 2140 HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
M4N OUT AT 2038			625	11			12	6 3/4	MUN - SEC
PUMP STROKES 70 PSI 800							13	6 3/4	OSC - 7 HW.
5 1/2 x 12 x 70									
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
		Totco		2038		5 1/2			
								DRILLER'S SIGNATURE <u>John Gray</u>	

APPROVED John N. T.
PAN AMERICAN REPRESENTATIVE

APPROVED John S.
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 16 1968
 LEASE NAME Granger River WELL NO. A-2 FIELD W. Cat.

FIRST TOUR FROM 12:00 M. TO 9:00 M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Rig Service Wait for pump parts (pump rod)
12:15	8:00				

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							11	6 3/4	YT3
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u> Gordon Kakeski </u>				

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Service Wait for pump parts (pump rod) Work on Pump
8:15	12:00				
12:00	4:00				

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							11	6 3/4	YT-3-REED
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u> Ron Squire </u>				

THIRD TOUR FROM 4:10 P.M. TO 8 A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:10	4:15				FINISH ON 10 AMP
4:15	4:30				
4:30	5:15		596	689	RIG SERVICE CHECK BOP
5:15	5:30				DRUG 6 3/4 HOLE
5:30	10:30		689	1194	SURVAY
10:30	10:45				DRUG
10:45	12:00		1194	1286	SURVAY Bit 11 6 3/4 YTS 810' 2 1/2 in
					Pump 3 1/2 x 1 1/2 to 800'

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
			84	28			11	6 3/4	REED YT-3
WATER		PUMP PSI		750					
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
		TOTCO	689	2°					
		"	1194	4 1/2°					
					DRILLER'S SIGNATURE <u> John Sears </u>				

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BRINKHOFF BAOS. 24 HOUR PERIOD ENDING AT MIDNIGHT NOV 15 1968
LEASE NAME GRANGER RIVER WELL NO. A-2 FIELD _____
_____ M. TO 800 M.

FIRST TOUR FROM 12.10 M. TO 8.00 M.

[illegible]

						HOURS	RATE	HOURS W/D PIPE	
DAYWORK:		HOURS	RATE	HOURS	RATE				
						BIG NO.	SIZE	KIND	179644

DAYWORK: HOURS		RATE		HOURS		KIND	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO. SIZE
							11 6 3/4 Y/T3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF	
						DRILLER'S SIGNATURE <i>Gordon K...</i>	

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

[illegible]

	HOURS	RATE	HOURS	RATE	HOURS W/D PIPE
DAYWORK:	HOURS	RATE	HOURS	RATE	HOURS W/D PIPE
					KIND 1796

DAYWORK: HOURS		RATE						BIT NO.	SIZE	KIND
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE				
								11	6 3/4	YT 3 - Drill
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>[Signature]</i>		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	12 ⁰⁰				WAIT ON MUD PUMP PARTS
				596	

HOURS W/D PIPE _____

[illegible]

DAYWORK: HOURS		RATE		HOURS		KIND	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.
							11 6 3/4
							YT 3 - R1
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF	
						DRILLER'S SIGNATURE	
						[Signature]	

APPROVED [Signature] PAN AMERICAN REPRESENTATIVE

APPROVED: [Signature] CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BRINKERHOFF BROS. 24 HOUR PERIOD ENDING AT MIDNIGHT Nov. 14 1968

LEASE NAME GRAINGER RIVER WELL NO. A-2 FIELD

FIRST TOUR FROM 12⁰⁰ M. TO 8⁰⁰ M.

[illegible]

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 <i>Gordon H. Kooki</i>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Log Service
8:15	12:00				Drill stringing up
12:00	2:00				Drill
2:00	3:00				Drill mouse hole
3:00	3:00				Pressure up Blind room, Pipe Ram
					Hydric checked motor shut off
					for 15 mins all held OK
3:00	3:00				Drill out.

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

[illegible]

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				RIG START
4:15	5:00		320		DRLG 1 3/4 HOLE
6:00	7:00				CHAIN DOWN BOP
7:00	10:00			476	DRLG
10:00	11:30				TAID FOR BIT
11:30	12:00		476	506	DRLG
					Bit #10 M4N 136 feet 4 3/4 has 1 T in

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
WATER							10	1 3/4	MUN - SEC
							11	1 3/4	YTS - RPE
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF.				
							DRILLER'S SIGNATURE <i>John Fred</i>		

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED John J. Sears
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

PIPE TALLY AND CEMENTING RECORD

LEASE Pan Am A-2 Granger Ridge WELL NO. _____ DATE November 15 1968
 PIPE RUN SIZE 7 1/8 WEIGHT 22.7 GRADE N80 TYPE JOINT SLC MAKE _____
 PIPE RUN SIZE _____ WEIGHT _____ GRADE _____ TYPE JOINT _____ MAKE _____

NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		NO.	LENGTH OF JOINT		TALLY OF JOINTS NOT RUN		
	FEET	IN.		FEET	IN.		FEET	IN.		FEET	IN.		FEET	IN.	NO.	FEET	IN.
1	33	90	51			101			151			201					
2	32	15	52			102			152			202			1	32	15
3	29	20	53			103			153			203			2	31	57
4	27	75	54			104			154			204	Cut off		3	16	75
5	27	17	55			105			155			205			4		
6	29	93	56			106			156			206			5		
7	33	60	57			107			157			207			6		
8	33	42	58			108			158			208			7		
9	33	14	59			109			159			209			8		
10	33	58	60			110			160			210			9		
11	32	20	61			111			161			211			10		
12	32	86	62			112			162			212			11		
13	31	57	63			113			163			213			12		
14			64			114			164			214			13		
15			65			115			165			215			14		
16			66			116			166			216			15		
17			67			117			167			217			16		
18			68			118			168			218			17		
19			69			119			169			219			18		
20			70			120			170			220			19		
21			71			121			171			221			20		
22			72			122			172			222			21		
23			73			123			173			223			22		
24			74			124			174			224			23		
25			75			125			175			225			24		
26			76			126			176								
27			77			127			177								
28			78			128			178								
29			79			129			179								
30			80			130			180								
31			81			131			181								
32			82			132			182								
33			83			133			183								
34			84			134			184								
35			85			135			185								
36			86			136			186								
37			87			137			187								
38			88			138			188								
39			89			139			189								
40			90			140			190								
41			91			141			191								
42			92			142			192								
43			93			143			193								
44			94			144			194								
45			95			145			195								
46			96			146			196								
47			97			147			197								
48			98			148			198								
49			99			149			199								
50			100			150			200								

NO. JOINTS DELIVERED 13 410.52

NO. JOINTS RUN 11 340.80

ACLFs 2.35

TOTAL RUN - OVERALL 372.40

OFF FOR THREADS 3.78

TOTAL - THREADS OFF 376.18

TOP PIPE BELOW: 12.20

☒ ROTARY DRIVE BUSHING 16.75

☐ DERRICK FLOOR

DEPTH LANDED R.B. 340.80

CEMENT - MAKE Canada Drilling

KIND USED SACKS

NO. SACKS 265 2 1/2 Cans

METHC. Continued

REMARKS:

Cemented with 200
Sacks 2 1/2 Cans no Return
Recommended from Top
with 65 Sacks 2 1/2 Cans
But down 12 is absent
11-13-68

APPROVED

John D. Fenton
OK 11/20/68

PAN AMERICAN REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BRINKERHOFF BROS. 24 HOUR PERIOD ENDING AT MIDNIGHT Nov. 13 1968
 LEASE NAME GRAINGER RIVER WELL NO. A-2 FIELD _____

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12:00	12:15				Reg Service
12:15	1:15				Hoist casing
1:15	2:15				Run in wt bit to Beam.
2:15	3:30		282	312	Beam to bottom
3:30	7:00				Live; max mud; work pipe
7:00	7:30				Hoist pipe
7:30	8:00				Reg up + run casing

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

DATUM: HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
GEL	3900 th	6 ⁰⁰		160						
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BRINKERHOFF BROS. 24 HOUR PERIOD ENDING AT MIDNIGHT NOV 12 1968
LEASE NAME GRAINGER RIVER WELL NO. A-2 FIELD _____

FIRST TOUR FROM 12⁰⁰ M. TO 8⁰⁰ M.

[illegible]

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1900	GEL	2:00		120			9	9 3/8	OWC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
				312		1 1/2°			
						DRILLER'S SIGNATURE		Gordon Kokochi	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Service
8:15	10:45		312	340	Drill
10:45	11:15				Reamulatory
11:15	11:30				Survey (340)
11:30	12:30				Downing Trip and Shm
12:00	14:00				Planning to Bottom
B.L. # 4020 121 ft 13 1/4 lbs 5, 1, in					

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

QUANTITY		MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
4400	GFH	10.00		120					9	9 1/2	OWC - HW
		2.00		120							
				DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
						340		1 3/4			
										DRILLER'S SIGNATURE <i>Paul Siquiera</i>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				RIG SERV
4:15	8:00				CLEAN TO BOTTOM
8:00	8:45				TRIP OUT
8:45	9:30				RIG UP TO RUN CASING
9:30	12:00			340	RUN SAME

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

[illegible]

APPROVED For [Signature]
 PAN AMERICAN REPRESENTATIVE

APPROVED John Speer
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 32 CONTRACTOR'S NAME Brinkerhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 11 1968
LEASE NAME Granger River WELL NO. _____ FIELD A. 2

FIRST TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig. Down.
12 ¹⁵	2 ⁰⁰				Connecting conductor BBL.
2 ⁰⁰	2 ³⁰				Slip & cut 50' Line
2 ³⁰	8 ⁰⁰				Fall workload in cellar with sand
					RECOMMENDED CONDUCTOR WITH 40 SACKS
					Dis with 2% LACER.

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

DAYWORK: HOURS											
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND	
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF				
									DRILLER'S SIGNATURE <i>Hasmin Prokhi</i>		

SECOND TOUR FROM 9⁰⁰ A.M. TO 4⁰⁰ P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	8 ¹⁵				Rig Service
8 ¹⁵	8 ³⁰				Run in test bit
8 ³⁰	4 ⁰⁰		133.63	128.00	Ram to bottom
					13 1/2 hrs on bit No. 8

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

DATE		TIME		WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
QUANTITY	MUD MATERIAL ADDED									
1600	CEL	10:00			120			8	9 3/8	44 MB
		3:00			120					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>London K. K. K.</i>		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
6:00	6:15				Big Service Bit #8
6:15	7:00		188	216	Running to Bottom
7:00	7:45		216	219	Dulq.
7:45	8:15				Trip for Bit #8
8:15	8:30		219	223	Dulq.
8:30	8:45				Survey
8:45	9:15				Work on Pump.
9:15	12:00		223	262	Dulq.

DAYWORK: HOURS

RATE

HOURS

RATE

HOURS W/D PIPE

DEPT: OUT 219'

H.A.S. RUN 14 1/4

FOOTAGE 51'

OULL CARD

7/8/15

7/2/11

7.15 12.00 223 262 *Sulz*
DAYWORK: HOURS _____ RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY		MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
400#		GEL	6:00		120				8	9 3/4	YHMG REED
			10:00		120				9	9 3/4	OWC H.W.
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
					193		3°				
									DRILLER'S SIGNATURE <i>Tom Simpson</i>		

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

RIG NUMBER _____ LEASE NAME GAINES RIVER A-2 WELL NO. _____ FIELD _____

FIRST TOUR FROM _____ M. TO _____ M.

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

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

DAYWORK:	HOURS	RATE	HOURS	RATE	HOURS W/D PIPE

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

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

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED John Sears
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME BRAKERHOFF 24 HOUR PERIOD Nov 9 1968
 LEASE NAME PAN-AM GRANGER REWELL NO. A-2 FIELD WYCAT

FIRST TOUR FROM 12⁰⁰ A.M. TO 8⁰⁰ A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig Service
12 ¹⁵	12 ³⁰				Repin Kelly Bushings
12 ³⁰	1 ¹⁵				Repin to Bottom
1 ¹⁵	4 ⁰⁰		153	163	Dilg.
4 ⁰⁰	5 ⁰⁰				Work on Pump (Cleaning state)
5 ⁰⁰	6 ⁰⁰				Repin 10' Fill
6 ⁰⁰	7 ³⁰		163	168	Dilg.
7 ³⁰	8 ⁰⁰				Work on pump (Cleaning state)
DAYWORK: HOURS		RATE		HOURS	
				RATE	
				HOURS W/D PIPE	

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							7	9 3/4	4M REED
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							Kasimir Praski		

SECOND TOUR FROM 8⁰⁰ A.M. TO 4⁰⁰ P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	8 ³⁰				Rig Service
8 ³⁰	8 ⁴⁵				Work on Section
8 ⁴⁵	11 ⁰⁰		168	180	Dilg.
11 ⁰⁰	11 ³⁰				Tip for Bit # 7
11 ³⁰	1 ⁰⁰		180		Dilg.
1 ⁰⁰	1 ³⁰				Repin Section & mix mud
1 ³⁰	4 ⁰⁰		185		Dilg. Bit # 7 9 3/4 4M 32' 11 3/4 7-2-1
DAYWORK: HOURS		RATE		HOURS	
				RATE	
				HOURS W/D PIPE	

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
5200#	GEL	10 ⁰⁰		95			7	9 3/4	4M REED
		2 ⁰⁰		100			8	9 3/4	4HWC REED
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							Jordan Kakaiki		

THIRD TOUR FROM 4⁰⁰ P.M. TO 12⁰⁰ A.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ¹⁵				Rig Service
4 ¹⁵	7 ⁰⁰		195	202	Dilg.
7 ⁰⁰	7 ⁴⁵				Work on Pump & Repin 10' to Bottom
7 ⁴⁵	12 ⁰⁰		202	203	Dilg.
DAYWORK: HOURS		RATE		HOURS	
				RATE	
				HOURS W/D PIPE	

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
3500#	GEL	6 ⁰⁰		100			8	9 3/4	4HWC REED
		10 ⁰⁰		100					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE		
							Ron Sigurdson		

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Baink & Holt 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 8 1965
 LEASE NAME Pan Am Ganges River WELL NO. A-2 FIELD _____

FIRST TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig Serv.
12 ¹⁵	2 ⁰⁰				Room To Bottom
2 ⁰⁰	3 ⁰⁰	127	127	130	drilling
3 ⁰⁰	4 ³⁰				Triped Bit
4 ³⁰	6 ³⁰				Mud Mud Losing Circ.
6 ³⁰	7 ⁰⁰				Room to Bottom
7 ⁰⁰	8 ⁰⁰		130	130	Drly. Bit # 5 9 7/8 1 1/2 7' 2 hrs 6-1-1

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							6	9 7/8	Sec.
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>Kasumi Proctor</u>		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	9 ¹⁵				Rig Service
9 ¹⁵	12 ¹⁵		132	137	Drly.
12 ¹⁵	12 ⁴⁵				Work on suction & repair pump valve
12 ⁴⁵	2 ⁰⁰				Flaring pipe & mix mud
2 ⁰⁰	4 ⁰⁰		137	142	Drly.
		Bit No 6		9 hrs drly. 17/11/11	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
3600	GEL	10:00		95			6	9 7/8	53
		2:00		95					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>Barton Kachuk</u>		

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ¹⁵				Rig Service
4 ¹⁵	5 ³⁰				Mixing Mud
5 ³⁰	6 ⁰⁰				Rooming to Bottom
6 ⁰⁰	7 ⁰⁰		142	146	Drly.
7 ⁰⁰	7 ⁴⁵				Trip for Bit # 6.
7 ⁴⁵	8 ¹⁵				Room 4' to Bottom
8 ¹⁵	12 ⁰⁰		146	153	Drly. Bit # 6 9 7/8 53 20' 9 hrs 5-1-1

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
5500	GEL						6	9 7/8	53 - SEC
TSK.	KWIK SEAL						7	9 7/8	4PM - REED
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>Rod Sigurdson</u>		

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

LEASE NAME GRADYER River A-2 WELL NO. _____ FIELD _____

FIRST TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig SEAL
12 ¹⁵	1 ⁰⁰				TRIP FOR BIT
1 ⁰⁰	2 ⁰⁰				REAM 10' FILL
2 ⁰⁰	5 ⁰⁰				WORK ON WATER LINES
5 ⁰⁰	6 ⁰⁰		123	127	DALG
6 ⁰⁰	8 ⁰⁰				WAIT ON WATER
					BIT # 3 1/8 VTS 19' 10" 5-1-1

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

QUANTITY	MUD/MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	FIND
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE		

SECOND TOUR FROM: 8⁰⁰ A. M. TO: 4⁰⁰ P. M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8:00	8:15				Rig Service
8:15	12:15				Logging Core; mixing mud.
12:15	2:15		120	127	Reaming 7 to bottom
2:15	4:00				Changing rotary clutch

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

[illegible]

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
0.00	4.15				By Summary
4.15	5.15				Changing Kelly to 127
5.15	6.00		127	127	Running to Bottom
6.00	11.00				Loss 1000 & 1000 Mud
11.00	12.00				Running to Bottom

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

QUANTITY		MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
<i>4800</i>		<i>GEH</i>						<i>97</i>		<i>YT3-T REED</i>
						DEVIATION INSTRUMENT		EGRES OFF		
								DRILL TIGHT		

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkerhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 6 1968
 LEASE NAME Granger River A-2 WELL NO. _____ FIELD _____

FIRST TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Rig Service
12 ¹⁵	1 ⁰⁰				Pump down diesel Grad Plug
1 ⁰⁰	3 ⁰⁰				Try to get out of hole
3 ⁰⁰	5 ¹⁰				Run mud & raise visc
5 ¹⁰	9 ⁰⁰				Run Hole & try to get to bottom

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							4	978	Reel Y73476110
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE	Kasumi Proski			

SECOND TOUR FROM 9⁰⁰ A.M. TO 4⁰⁰ P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
9 ⁰⁰	9 ¹⁵				Rig Service
9 ¹⁵	12 ¹⁵		104	120	Only, clearing hole
12 ¹⁵	1 ¹⁵				Rig up & run grad plug
1 ¹⁵	3 ¹⁵				Logging core, mixing mud
3 ¹⁵	4 ⁰⁰				Ream 16' to bottom

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1200	GEL	10:00 2:00					4	978	YT3
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE	London Hobbs			

THIRD TOUR FROM 11 A.M. TO 12 P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
11 ⁰⁰	11 ¹⁵				Rig Service
11 ¹⁵	5 ⁰⁰		120	121	Only
5 ⁰⁰	7 ⁰⁰				Logging core & mixing mud
7 ⁰⁰	11 ³⁰		121	123	Only
11 ³⁰	12 ⁰⁰				Time for Bit #4

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
2600	GEL						4	974	YT3 REED
							5	977	YT3-T REED
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE	Ron Sigurdson			

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkerhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov. 5 1968
 LEASE NAME _____ WELL NO. A2 FIELD _____

FIRST TOUR FROM 12⁰⁰ M. TO 7⁰⁰ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	12 ¹⁵				Reg. Serv.
12 ¹⁵	2 ⁰⁰				Try to get to bottom
2 ⁰⁰	2 ¹⁵				Survey
2 ¹⁵	4 ⁰⁰				Drill 10'
4 ⁰⁰	8 ⁰⁰				Lost Circ mix mud.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							3	9 7/8	YT1A 6-1-1
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE				

SECOND TOUR FROM 8⁰⁰ A.M. TO 4⁰⁰ P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	9 ¹⁵				Reg. Service
9 ¹⁵	11 ⁰⁰				mix mud
11 ⁰⁰	12 ⁰⁰				Drop for bit + try to get on bottom
12 ⁰⁰	4 ⁰⁰				Try to get to bottom (Lost Circ.)
Bit #3 9 7/8 YT1A 20' 5 3/4 lbs 6-1-1					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		10 ⁰⁰		32			4	9 7/8	YT3 (+76110)
		2 ⁰⁰		32					
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>Gordon Kibochi</u>				

THIRD TOUR FROM 4⁰⁰ P.M. TO 12⁰⁰ P.M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ⁰⁰	4 ¹⁵				Reg. Service
4 ¹⁵	12 ⁰⁰				Lost Circ.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
2300	GELI.						4	9 7/8	YT3-JKED 47640
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>Bob Sigurdson</u>				

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkerhoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 4 1968

RIG NUMBER _____ NAME _____
LEASE NAME _____ WELL NO. A-2 FIELD _____

FIRST TOUR FROM _____ M. TO _____ M.

[illegible]

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

DAY WORKING RECORD										
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		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
800	815				Rig Break.
815	1200				Trying To Get To Bottom
1200	200	✓	84	94	Drill 73 Hole
200	400				Lost cir work Pipe + Mud Mud

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	LOSS	CAKE	BIT NO.	SIZE	KIND
8.6	1950#						2	9 3/4	5-CM 4N
Concrete	200#							20' 4 1/2" H. A. 10/0	
		DEVIAT	MENT	DE			DEGREES OFF	DEPTH AW	94.61 3/11
							DRILLER'S SIGNATURE	Hosmer Proctor	

THIRD FOUR FIVE 11 30 M. TO 12 00 M.

TIME		OPERATION	DEPTH		DESCRIPTION OF WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, AND WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4:00	4:15				Run down
4:15	4:45				2" in the bit
4:45	8:00		94	104	2" in the 9 7/8" hole
8:00	11:00				Loss line mud mud, mangle
11:00	12:00		94	104	Run 10' of fuel to bottom

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

DAYWORK RECORD								BIT NO.	SIZE	KIND
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE				
1500	GEL	L:00		35				3	97R	YTIA
		10:00		55						
						DEVIATION INSTRUMENT		DEPTH		DEGREES OFF
						DRILLER'S SIGNATURE		<i>Eardo Kakozhi</i>		

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Bentkoff Bros 24 HOUR PERIOD ENDING AT MIDNIGHT Nov 3 1964
LEASE NAME San Geronimo River WELL NO. 41 FIELD W/cut

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC
FROM	TO		FROM	TO	
12 ⁰⁰	5 ⁰⁰				Loss Circ. wait on water
5 ⁰⁰	6 ⁰⁰				Drilling on holders
6 ⁰⁰	6 ³⁰				wait on mud pump. Make for belt broke.
6 ³⁰	8 ⁰⁰				Drilling

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

[illegible]

DRILLER'S SIGNATURE John Frey

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8.00	8.15				Rig Down.
8.15	10.30				Drilling on Boulders
10.30	4.00				Lost Circ.

BIT NO 1 OSC-1G FOOTAGE 84'

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

[illegible]

DRILLER'S SIGNATURE *Harmin Proctor*

THIRD TOUR FROM 4⁰⁰ M. TO 12⁰⁰ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
4 ^{<u>00</u>}	4 ^{<u>15</u>}				P.g. Service Fast circ. Drill 97% hole no mud
4 ^{<u>15</u>}	6 ^{<u>00</u>}				
6 ^{<u>00</u>}	8 ^{<u>30</u>}		74	84	
8 ^{<u>30</u>}	12 ^{<u>00</u>}				
					Pump 200 PSI 5½ x 12

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1150 ⁰⁰	GEL	6:00		W	A	T	2	9 1/8	SEC MHN
100 ⁰⁰	CAS TIC	10:00		30					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE Gordon Kaborchi		

DRILLER'S SIGNATURE Gordon K. Koshonke

APPROVED [Signature]
PAN-AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkerhoff Bros. 24 HOUR PERIOD ENDING AT MIDNIGHT NOV 2 1968
LEASE NAME Para 1 in Haringer River WELL NO. A2 FIELD 21 east

FIRST TOUR FROM 12 P.M. TO 2 A.M.

[illegible]

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	<i>John Fress</i>	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ^{<u>06</u>}	10 ^{<u>06</u>}				Rig up to sand.
10 ^{<u>00</u>}	12 ^{<u>00</u>}		0	H5	Sand drill hole down
12 ^{<u>00</u>}	4 ^{<u>00</u>}				Drilling rat hole
					TOTAL K.B. K.H. 13.00'

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								1	9 3/4	HW OSC-16
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>Kumar P. Singh</i>		

THIRD TOUR FROM 4 ¹⁰ M. TO 12 ¹⁰ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
H ⁰⁰	H ¹⁵				Rig Setup
H ¹⁵	8 ⁰⁰				Drill rat hole
8 ⁰⁰	10 ³⁰		45	64	Drill 2 1/2 hole
10 ³⁰	12 ⁰⁰				Rig up water pump (loss circulation)

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							1	9 3/4	HW OSC-16
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE <i>John H. K...</i>	

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORTRIG NUMBER 38 CONTRACTOR NAME BRINKERHOFF BROS LTD 24 HOUR PERIOD ENDING AT MIDNIGHT NOV 1 1960
LEASE NAME PAN AM GRANGER RIVER WELL NO. A 2 FIELD N/CATFIRST TOUR FROM 12⁰⁰ M. TO 8⁰⁰ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC															
FROM	TO		FROM	TO																
					MOVE DRILL PIPE TO NEW LOCATION & RIG UP															
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 <u>John Frey</u>										

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.															
FROM	TO		FROM	TO																
					Rigging up															
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 <u>Kenneth P. ...</u>										

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.															
FROM	TO		FROM	TO																
					Rigging up															
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 <u>Gordon ...</u>										

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brimkerhoff Bros. 24 HOUR PERIOD ENDING AT MIDNIGHT Oct 31 1960
LEASE NAME Pan Am Grandis River WELL NO. A2 FIELD W/est

FIRST TOUR FROM 12 M. TO 5 M.

[illegible]

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 <i>John Frey</i>		

SECOND TOUR FROM 8⁰⁰ M. TO 11⁰⁰ M.

[illegible]

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	Hosmer Pruski

THIRD TOUR FROM 11¹⁰ M. TO 12¹⁰ M.

[illegible]

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

[illegible]

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 38 CONTRACTOR'S NAME Brinkerhoff Bros Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT Oct 30 1968
LEASE NAME Pan Am Houston River G-1 WELL NO. A-1 FIELD 2/cat

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

[illegible]

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

DAY WORKING HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE	John Kress	

SECOND TOUR FROM 9 A M. TO 4 P M.

[illegible]

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

DAY WORK RECORD											
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAGE		BIT NO.	SIZE	KIND	
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF				
		DRILLER'S SIGNATURE								Hassim Paaski	

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

[illegible]

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

DAY WORK RECORD									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
								DRILLER'S SIGNATURE	Gordon Kobaski

APPROVED [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED John J. [Signature]
CONTRACTOR'S REPRESENTATIVE