

PAN AM ANDEX CAMERON C-22

WELL NAME Pan Am Index Cameron C-22

FIELD

LOCATION: Unit

C

Area:

22

Section

Grid

60-20-117-45

Latitude

60-11-46.27

Longitude

117-49-55.47.9

From Established Reference Marker

U.S.L.R. 60.18333 — 117.83194
U.W.I. 300C226020117450

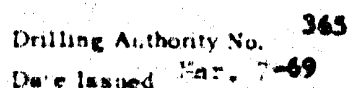
Rig Release Date: 2-4-67

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
March 7, 1969	Application for a Drilling Authority.
20-5-69	Well Completion Data.
	Well History Report.
30-6-69	Application to Amend a Drilling Authority.
	Application to change a Well Name.
28/4/69	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

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

Well name and number **Pan Am Index Cameron C-22**
 Permit No. **3879**
Index Oil Co. Lease No.
 (Permitter, Licensee, Lessee) Exploratory Licence No.
Pan American Petroleum Corporation
 (Operator) Exploratory Licence No.

Location: Unit **6** Section **22** Grid **60°20'N, 117°45'W**
 Latitude **60°11'11.27" N.** Longitude **117°49'47.9" W.**
 From Established Reference Marker **N.E. Cor. Sec. 36-128-1-6**
 Universal Well Location Reference **Lat. 60.18645°N; Long 117.82997°W.**

	DATE	DEPTH	Pool(s)	Interval(s) open to production
Spudded	3-7-69			
Suspended				
Resumed Operations				
Finished Drilling	3-28-69	TD-5300'		
Deepened				
Complete (gas/oil)	4-2-69			
Abandoned	4-2-69			
Rig released				

Elevation: Gr. 2306' K.B. 2022'
 Rig No. 6
 Drilling Contractor **Habers Drilling Ltd.**
 Contractor's Business Licence No. **A11246**

	Casing Size (Inches)	Grade	Weight	Amount	Set wt -	Barrels of Cement and Additives
1.	9 5/8"	J-55	36	25 JTS	1019' KB	800 sxs Oilwell +
2.						3% CaCl ₂ + cement from
3.						top w/ 76 sxs Oilwell.
4.						
5.						
6.						

[illegible]

CEMENTING RECORD (Plug, Squeeze etc.)				PERFORMING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracking, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
4-1-69	4500'	5300'	Plug #1 w/400 szs - no feel.								
4-1-69	1080'	920'	Plug #2 w/130 szs + 3% CaCl ₂ . Felt @ 898'.								
4-2-69			Placed 5 szs in top of steel, ringer was welded 5' above ground level with identifier attached.								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	L.S.L. Mins.	F.S.L. Mins.	L.S.L.R.H.P.	F.S.L.R.H.P.	L.P.R.H.P.	F.F.R.H.P.	L.H.P.	F.I.L.P.	REMARKS
1	3-22-69	Sulphur Pt.	4610	4730	180	60	120	1448	1430	308	1107	2160	2155	Good initial puff. GTS in 12 mins. TSTM. Rec. 180' gas cut mud, 720' blackish light oil 1440' salt water.
2	3-26-69	Keg River	4835'	4995	120	60	120	1337	1359	308	792	2329	2329	Weak initial blow, rec. 120' gas cut mud. 1230' black sulphurous salt water.
3	3-31-69	Keg River	5250	5300	90	60	90	310	325	85	93	2470	2467	Weak initial blow, rec. 120' carbon and drilling mud.
4	4-1-69	Slave Pt.	4615	4640	90	60	90	1301	1282	199	261	2201	2189	Weak blow decreasing on 90 min. flow. Rec. 90' carbon, 90 salt water, 180' mud, 315' gas cut oil.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E69-9692-2	Oil	4610'	4730'	DST #1	
E69-9692-3	Water	"	"	"	
E69-9904	Gas	"	"	"	
E69-9955-3	Water	4835	4995	DST #2	
E69-9953-2	Water	5300	5250	DST #3	
E69-9954-3	Water	4615	4646	DST #4	
E69-9954-3	Oil	"	"	"	
GNP-1-9591	Core	4874	4934	Core #1	

PRESENT STATUS OF WELL

Oil	(later -)
Gas	(Interval)
Mud	
Susp. M.	

Company **Pan American Petroleum Corporation**

Signed by *[Signature]*

Title **ASST. MGR.**

Date **May 1, 1969**

This report was prepared in accordance with the instructions of the American Petroleum Institute.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

OIL AND MINERAL DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 365, concerning PAN AM AMERICA OILFIELD C-22

(Name and Number of Well)

The following amendments are required:

CHANGE OF LOCATION: From: Lat. 60° 11' 00" N., Long. 117° 49' 55" W.
To: Lat. 60° 11' 11.27" N., Long. 117° 49' 47.9" W.

CHANGE OF UNIVERSAL WELL LOCATION REFERENCE: From: Lat. 60.18773° N., Long. 117.83194°
To: Lat. 60.18645° N., Long. 117.82997°

Reasons for the amendments:

Legal Survey by Messrs. White, Horsford & Ingey Ltd. showed a corrected location.

Dated at _____, this 30th day of June, 19 69.

Signed by *J. D. St. Laurent*Title *Drilling Engineer*Company *Pan American Petroleum Corporation*

(For Resource Management Division use only)

APPROVED

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

Date 10th July, 19 69

B. J. Thomas
Oil Conservation Engineer

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



File No
Drilling Authority No. 363

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

OIL & MINERAL

Application to Abandon a Well

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

Name and number of well Pan Am Andromeda C-22
Location: Unit C Section 22 Grid 90°20'N 117°45'W
Latitude 50°11'00"N Longitude 117°40'55"W
From Established Reference Marker N.E. Cor. Sec. 36-22-1-6
Universal Well Location Reference Lat. 50.18333°N Long. 117.68194°W
Permit No. 3579 Lease No.

Andromeda Oil Co.
(Permitter, Licensee, Lessee)

Date of commencement of proposed program 4-1-69

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at 4610' - 4730' (D.S.T. #1)
Gas at 4610' - 4730' (D.S.T. #1)
Water at 4610' - 4730' (D.S.T. #1) 4995 - 4835 (D.S.T. #2)
Total Depth 5300' Date of last operations 4-1-69
Present condition of well Abandoned well.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 9 5/8"	36	25.75	1019'	800 sbs + 3% CaCl ₂	nil
2.				+ 7% sbs from top	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4500-5300'	Watt Mm. Sulphur Pt. Mudog. Egg River. Chla Chaga. Granit wash. Proterozoic	400	no seal
2	1000'-920'	Sl. Pt.	130 + 3% CaCl ₂	Surface csg plug. Felt plug 8000'. Placed 5 sbs in top stub, weld on & name plate.

The following logs have been run SHP, D.I.L., F.D.C. SIC-GR, LTR

Other operations proposed

Operations to be carried out by Roberts Drilling Ltd. Contractor Licence No. A11246

Address 4th Floor Bessell Bldg. Calgary, Alberta Address

Responsible Agent in field J.A. Schaff

Dated at Grande Prairie, Alberta, this 22 Day of April 19 69

Signed by [Signature] Company Pan American Petroleum Corporation

Title Area Foreman Operator's Exploratory Licence No. 1200 & 1231

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

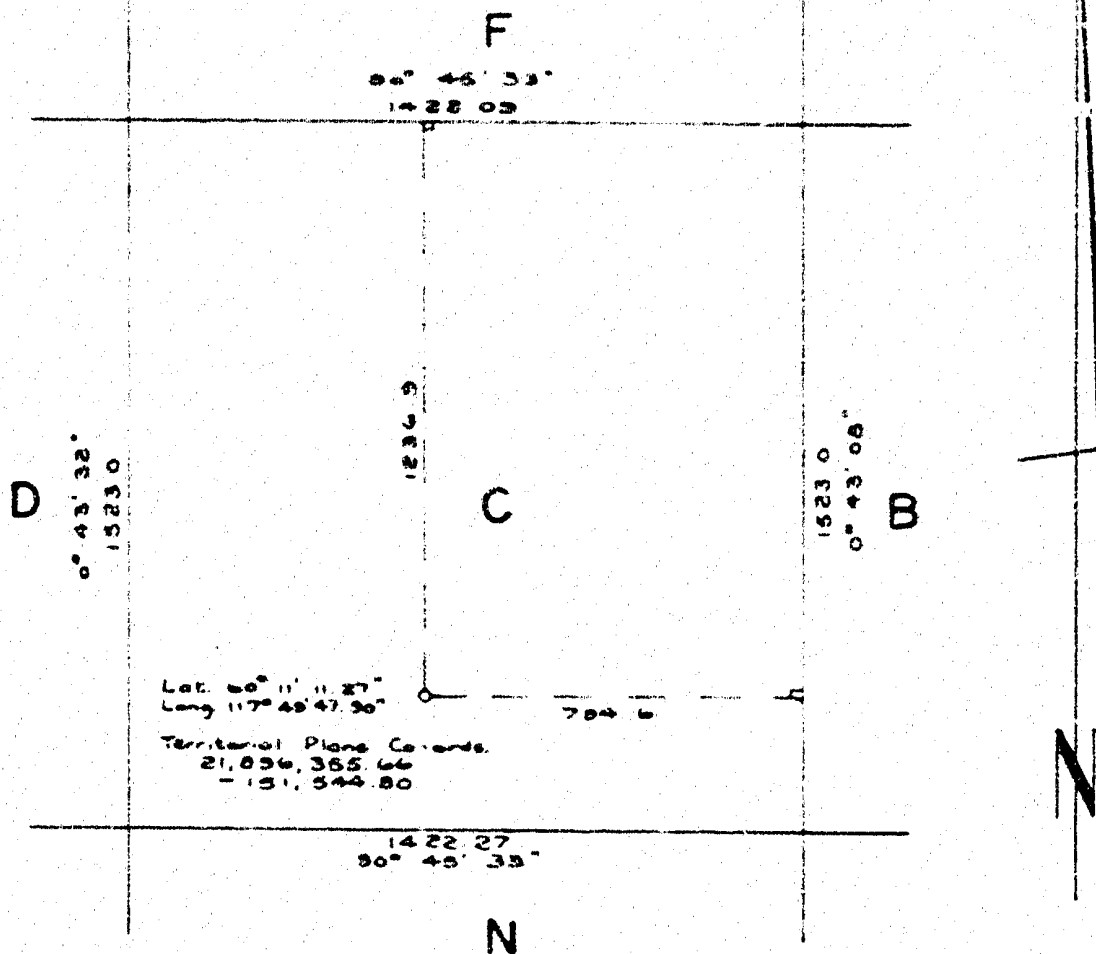
This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by Mr. D.H.J. Thoms
on the 31st March 1969.

Dated 28th April 19 69

(for)
Oil Conservation Engineer

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



Located by traverse from
N.E. Cor. Sec. 36-128-1-6

PLAN OF SURVEY OF
PAN AM ANDEX CAMERON C-22
WELL SITE
IN THEOR.

UNIT C, SECTION 22, GRID 60°20'N 117°45'W

PAN AMERICAN PETROLEUM CORPORATION

SIGNATURES

W. H. Hoff
PAN AMERICAN PETROLEUM CORPORATION

V. P. Peters

I certify that the survey represented by this plan is correct
and true and was carried out between Feb. 15 and
March 17, 1969

H. E. [Signature] D.L.S.
W. Haslam Witness

ELEVATION

on ground in center of Well Site 2306'
TOP OF I.B. CORNER WELL SITE
TOP OF I.B. CORNER WELL SITE
MEV. ELEV. N.E. Cor. Sec. 36-128-1-6 = 2451'

CO ORDINATES

Well is located
1236.9 feet south of north Bdy.
and 794.6 feet west of east Bdy.
of theor. Unit C, Sec. 22, Grid 60°20'N 117°45'W

WHITE, HOSFORD & IMPEY LTD.
GRANDE PRAIRIE WHITEHORSE

AREAS REQUIRED

Well Site
Access Road

Acres
Acres

LEGEND

Planted Iron Bars ○
Found Iron Bars ●
Found Survey Monuments ◆

Job No. 6923

Date: March 21, 1969

Total

Acres

SCALE 1" = 400'

Drilling Authority No. 365

Project No.

File No.



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 7022 An Andex Cameron C-22

Location: Unit C Section 22 Grid 60°20'N, 117°45'W
Latitude 60° 11' 00" N. Longitude 117° 49' 55" W.

From Established Reference Marker

Universal Well Location Reference Lat. 60.1833° N., Long. 117.83194° W.

Elevation: Ground N/A K.B. N/A feet above sea-level.

Well is expected to produce from Log River formation at a depth of about 5200 feet. Expected total final depth 5500

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 3879

Lease No.

Acreage 63,534

Permittee, licensee, or lessee

Andex Oil Co.

Exploratory Licence No. 1259 (1968/69), No. 1271 (1969/70)

Surface owned by Crown XX Crown

(If allocated 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	Bottom of Cement
1. <u>9-5/8</u>	<u>36</u>	<u>L-55</u>	<u>New</u>	<u>1000</u>	
2. <u>7</u>	<u>23</u>	<u>L-55</u>	<u>New</u>	<u>Top Joint</u>	
3. <u>7</u>	<u>20</u>	<u>L-55</u>	<u>New</u>	<u>3725</u>	
4. <u>7</u>	<u>23</u>	<u>L-55</u>	<u>New</u>	<u>5250</u>	
5. <u>7</u>	<u>23</u>	<u>L-55</u>	<u>New</u>	<u>5500</u>	

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

Drilling mud and Blowout Preventors

1 Hydril and 1 double Gate Schaeffer, Hydraulic with remote control

Well will be drilled with Rotary Rig No. 6 by Nabors Drilling Ltd.

(Drilling Contractor or company)

4th Floor Bentall Bldg., Calgary, Alberta

Responsible agent of applicant:—

Contractor's Business Licence No. A 11246

At well J.A. Scharff

At registered office Sams

Address 9916A Richmond Ave., Grande Prairie, Alta.

Address Sams

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

Dated at Grande Prairie, this 4 day of March, 19 69

Signed by [Signature] Company Pan American Petroleum Corporation

Title Drilling Foreman Operator's Licence No. 1208

(For Resource Management Division use only)

APPROVED

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

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

2. During well drilling and testing operations, every effort shall be made to ensure

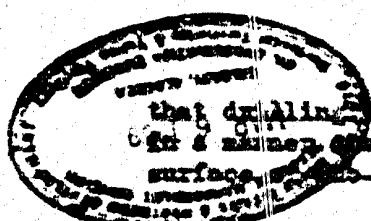
Dated 7th March, 19 69

Oil Conservation Engineer

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

IAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER - 300C226020117450



that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

B.H.J. Thomas

Oil Conservation Engineer
(B.H.J. Thomas)

WELL HISTORY REPORT

Pan Am Andex Cameron C-22
(Pan Am Andex C-1 Cameron)
Unit C Sect. 22 Grid 60°20'N, 117°45'
Northwest Territories

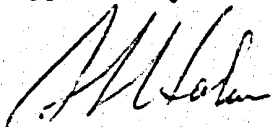
WELL HISTORY REPORT

Pan Am Andex Cameron C-22
Unit C Sect. 22 Grid 60°20'N, 117°45'W
Northwest Territories

By:

W.M. Liesemer
S.G. Professional Assistant

Approved By:


A.F. Holan
Area Foreman



Pan American Petroleum Corporation
444-7th Ave. S. W.
Calgary 2, Alberta

April, 1969

I N D E X

<u>SECTION</u>		<u>PAGE</u>
I	Summary of Well Data	1
II	Geological Summary	2
III	Engineering Summary	2
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V	Analysis	4
VI	Completion Summary	5

ATTACHMENTS.

Core Descriptions
Sample Descriptions
Core Analysis
Gas Analysis
Oil Analysis
Water Analysis

WELL HISTORY
REPORT

Section I - Summary of Well Data

(a) Well Name and Number

Pan Am Andex Cameron C-22

(b) Permittee

Andex Oil Co.

(c) Location

C-22 Grid area 60°20'N, 117°45'W
Lat. 60°11'11.27" Long. 117°49'47.9"
Universal well location reference
Lat. 60.18645° N., Long. 117.82997°
Unique well Identifier: 300C226020117450

(d) Co-ordinates

NIL

(e) Permit No.

3879

(f) Drilling Contractor

Name: Nabors Drilling Ltd.
Rig: 6
Type: Rotary

(g) Drilling Authority

#365
March 7, 1969

(h) Classification

Exploratory Wildcat

(i) Elevation

Ground: 2306'
K.B.: 2322'

(j) Spudded

3-7-69

(k) Completed Drilling

1-21-69

(l) Depth

Total Depth - 5300'

Plug Back Depth - No production casing run.

(m) Well Status

Well Abandoned

(n) Risk Released

4-2-69

(o) Hole Size

13-3/4"	0 - 1019'
8-3/4"	1019 - 5300'

(p) Casing

Casing Size: 9-5/8"

Grade: J-55

Weight: 36#

Amount: 25 Jts.

Set at: 1019' K.B. with 800 sacks Oilwell + 3% CaCl₂ + cement from top w/76 sacks Oilwell.

Section II - Geological Summary

See Attachment

Section III - Engineering Summary

(a) Drill Stem Tests

D.S.T. #1 Sulphur Point (4610' to 4730') Good initial puff. Good blow with gas to surface in 12 minutes. Gas too small to measure. Gas burned with 2' to 3' flare throughout test. Rec 180' of gas cut mud. 720' blackish light oil. 1440' salt water. PF-5, ISI-60, TO-180, FSI-120, IHP-2160, ISIP-1443, IFP-308, FFP-1107, FSIP-1430, FHP-2155

D.S.T. #2 Keg River (4835' to 4995') Weak initial air puff. Weak air blow on flow, remaining steady for flow period. Rec. 120' gas cut mud. 1230' black sulphurous gas cut salt water. PF-5, ISI-60, TO-120, FSI-120, IHP-2329, ISIP-1557, Pre-flow-213, IFP-308, FFP-792, FSIP-1559, FHP-2329

D.S.T. #3 Keg River (5250' to 5300') Weak initial air puff. Very weak air blow when opened for flow period. Reset tool after 30 minutes on flow. Rec.

120' corban and drilling mud. PF-5, ISI-60, TO-90, FSI-90, IHP-2470, ISIP-310, Pre-flow-68, IFF-15, FFP-93, FSIP-325, FHP-2467

D.S.T. #4 Slave Point (4615' to 4646') Fair to weak initial air puff. Weak blow decreasing on 90 minute flow period. Rec. 90' salt water, 180' mud, 315' gas cut oil. PF-5, ISI-60, TO-90, FSI-90, IHP-2201, ISIP-1301, Pre-flow-175, IFF-199, FFP-261, FSIP-1282, FHP-2189.

(b) Casing Record

Surface Casing

Hole Size 13-3/4"
Casing Size 9-5/8"
Weight 36#
Grade J-55
Joints Run 25
KB-setting depth 1019'
Cement & Additives 800 Sxs. oilwell cement + 3% CaCl₂ + cement from top with 76 Sxs. oilwell.
Date Run 3-11-69
Date Cemented 3-11-69

Production Casing

NIL

(c) Bit Record

BIT	SIZE	TYPE	MAKE	IN	OUT	FT.	HOURS
1	13-3/4"	YT3AJ	Reed	0'	290'	290'	18-3/4
2	13-3/4"	YT3A	Reed	290'	800'	510'	24-1/2
3	13-3/4"	HW	OSC	800'	1019'	219'	9-1/2
1	8-3/4"	ST3A	Reed	1019'	1810'	791'	19-1/4
4	8-3/4"	ST3A	Reed	1810'	1998'	188'	11
5	8-3/4"	XIGJ	HW	1998'	2941'	943'	38-1/2
6	8-3/4"	STIAGJ	Reed	2941'	3610'	669'	38-3/4
7	8-3/4"	X3A	HW	3610'	4457'	847'	20-1/4
8	8-3/4"	SCMJ	Reed	4457'	4731'	274'	20-3/4
9	8-3/4"	SMGJ	Reed	4731'	4825'	94'	6-1/2
10	8-3/4"	SCMJ	Reed	4825'	4874'	49'	6-3/4
11	8-11/16"	Diamond		4874'	4934'	60'	9-3/4
10RR	8-3/4"	SCMJ	Reed	4934'	4995'	61'	6
10RR	8-3/4"	SCMJ	Reed	4995'	5300'	305'	32-1/2

(d) Mud Report

Type: Gel-Benex, Low solids non-dispersed mud system

Quantity: Gel 95,640#
Benex 315#
Lime 140#
Barium Carbonate 1,820#
Soda Ash 3,900#
Kwik Seal 800#
WL-2-10 550#

(e) Deviation Record

<u>DEPTH</u> (ft)	<u>Deviation</u> (Degrees)	<u>DEPTH</u> (ft)	<u>Deviation</u> (Degrees)
90	3/4	1030	1-3/4
135	1/4	1160	1-3/4
194	7/8	1260	1-3/4
223	7/8	1421	1-7/8
253	1	1943	1-1/8
293	1/2	2100	1-3/8
310	7/8	2253	3/4
370	7/8	2500	1
437	3/4	2650	1/2
466	1/2	2940	3/8
533	1/4	3251	1/4
683	1-1/8	3500	1/8
710	3/4	3830	1/3
775	7/8	4250	3/3
808	7/8	4825	1/2
871	7/8	4870	7/8
934	1-1/4	5270	1
965	11/16		

(f) Abandonment Plugs

Plug #1 4-1-69 (4500'-5300') with 400 Sxs. - no feel.
 Plug #2 4-1-69 (1030'- 920') with 130 Sxs. +3% CaCl₂. Felt @ 898'.
 Cut off csg. 3' below gr. Spot 5 Sxs. in csg. weld on 1/4" plate.
 Weld on riser 5' above gr. level with identifier.

(g) Lost Circulation Zones

NIL

(h) Report of Blowouts

NIL

Section IV - Logs

<u>DATE</u>	<u>RUN NO.</u>	<u>TYPE</u>	<u>INTERVAL</u>
3-29-69	1	SNP	5302'-4300'
3-29-69	1	D.I.L	5298'-1019'
3-29-69	1	FDC	5302'-4300'
3-29-69	1	BHC-S&R-C SLS-GR	5301'-1019'
3-29-69	1	Lithology	5302'-4300'

Section V - Analysis

(a) Core Analysis See Attachment - CNF - 1 - 9591
 (b) Water Analysis See Attachment - EL-4955-3, EL-4962-3, EL-4953-3, EL-4954-3
 (c) Gas Analysis See Attachment EL-4964
 (d) Oil Analysis See Attachment EL-4962-2, EL-4954-3

Section VI - Completion Summary

NIL - Well Abandoned



CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

COMPANY PAN AMERICAN PETROLEUM CORPORATION FIELD CAMERON HILLS FILE CHP-1-9291
WELL PAN AM ANDEX CAMERON C-22 DATE MARCH 26/69
LOCATION 60 11'00.00 117 49'55.00 PROV N.W.T. ELEV.

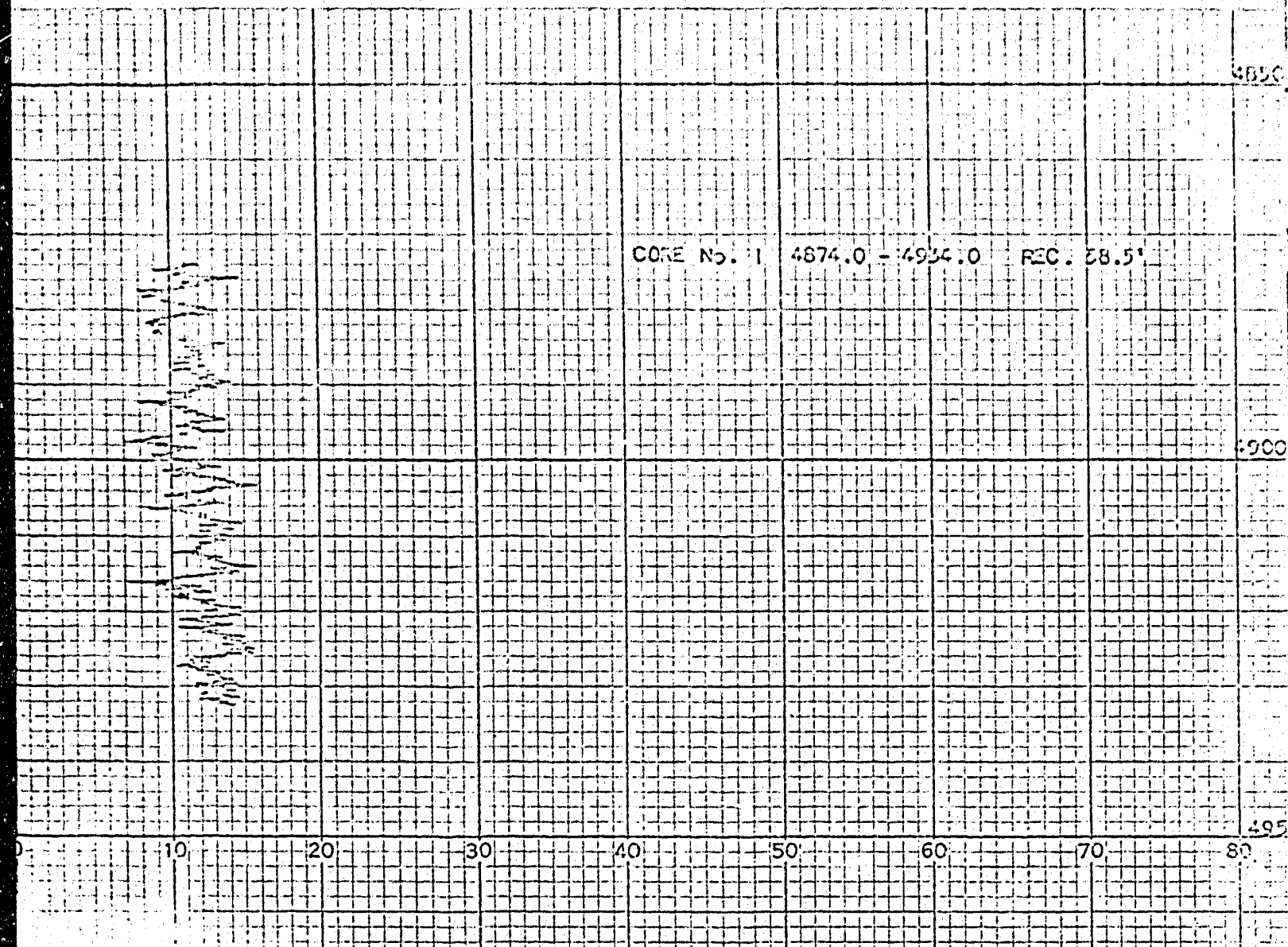
CORE GAMMA CORRELATION

This analysis, graphs or interpretations are based on information and materials supplied by the client to whom and for whom extensive and confidential use of the report is made. The user assumes all liability for the use of the report. The user assumes all liability for the use of the report. The user assumes all liability for the use of the report.

TC 1: SECS

VERTICAL SCALE: 3" = 100'

SENS 2500 CPM



CORE LABORATORIES - CANADA, LTD.

COMPANY	PAN AMERICAN PETROLEUM CORPORATION	FORMATION	-	PAGE	1 of 2
WELL	PAN AM AIDEX CAMERON C-22	DRILLING FLUID WATER EASE	-	FILE	COR-1-5991
FIELD	CAMERON HILLS AREA, NORTHWEST TERRITORIES	ELEVATION	-	DATE REPORT	APRIL 11/69
LOCATION	CO 11'00.00 117 49'55.00	ANALYSIS	FULL DIAMETER & RESIDUALS	ANALYSTS	C. J. S. W.
		REMARKS	Glazed surface on all samples removed prior to porosity measurements.		

[illegible]

COEF. INTERVAL 4874.0' - 4934.0'

COSE No. 1 4874.0' - 4934.0' (Rec. 58.5') (16 BOXES)

[illegible]

WELL:

PAN AM ANDEX CAMERON C-22

PAGE: 2 of 2

FORMATION:

FILE: CNP-1-9591

SUMMARY INTERVAL:

4874.0 - 4934.0

TOTAL FOOTAGE:

60.0

FOOTAGE ANALYZED

7.0

FOOTAGE NOT ANALYZED:

TOTAL: 53.0 DENSE 51.5 LOST 1.5 DRILLED .0 *NABR .0 RUBBLE .0

SUMMARY
OF
ANALYZED CORE:

TOTAL

BY
PERM
RANGES:

LESS THAN 0.10 Md.

0.10 0.49 Md.

0.50 0.99 Md.

1.00 9.99 Md.

GREATER THAN 9.99 Md.

FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POOR %	POOR TO VERY POOR	WEIGHTED AVERAGE MED MD	POOR TO VERY POOR	WEIGHTED AVERAGE GOOD MD	WEIGHTED AVERAGE EXCEL MD
7.0	100.00	2.52	17.62	.31	2.19	13.63	21.55
1.3	18.57	2.30	2.99	.06	.08	17.85	15.56
3.8	54.29	2.20	8.36	.17	.66	10.76	26.57
1.9	27.14	3.30	6.27	.76	1.45	16.45	15.00
.0	.00	.00	.00	.00	.00	.00	.00
.0	.00	.00	.00	.00	.00	.00	.00

*NOT ANALYZED BY REQUEST

ELECTRIC LOG TOPS

K.B. Elevation

2308'

<u>Formation</u>	<u>Depth</u>	<u>Subsea</u>
Wabamun	1527	+ 736
Spence River	4115	-1852
Slave Point	4412	-2149
Watt Mountain	4609	-2346
Sulfur Point	4613	-2350
Muskeg	4707	-2444
Keg River	4945	-2682
Chinchaga	5199	-2936
Granite Wash	5264	-3001
Pre Cambrian	5282	-3019

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME Pine An Andes Cameron C22
LOCATION _____

SHEET NO. 1
DATE 12/1/54

[illegible]

HELTON ENGINEERING LTD.
WELL SITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION _____

SHEET NO. 2

DATE _____

[illegible]

FORM 10 McARA

GEOLOGIST

J. L. BEZ

HELTON ENGINEERING LTD. WELLSITE SAMPLE DESCRIPTION

WELL NAME _____
LOCATION _____

SHEET NO. 3
DATE _____

LITHOLOGY	DEPTH	SAMPLING		SAMPLE DESCRIPTION
		RODS	STAMP	
				shale and grey impure micaceous
				aa
				aa
				aa
				aa
				aa
				aa
				aa
				aa
	1000			aa
				aa
				aa
				no sample
				no sample
				shale is above
				aa
				aa
				aa
				aa
	1100			aa
				aa
				aa
				shale and grey impure micaceous
				aa
				aa
				aa
				aa
				aa
				aa to no very fine very dk grey
	1200			shale is above
				aa
				aa
				aa
				aa
				aa
				aa
				aa
				aa
				aa
				aa
				aa
	1300			aa
				aa
				no sample
				shale is above
				aa
				aa

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION _____

SHEET NO. 7

RATE _____

LITHOLOGY	DEPTH	SHOW		SAMPLE DESCRIPTION
		PODS	STAIN	
				shale red grey impure micaceous
				2.0
				2.1
				2.2
				2.3
				2.4
				2.5
				2.6
				2.7
				2.8
				2.9
				3.0
				3.1
				3.2
				3.3
				3.4
				3.5
				3.6
				3.7
				3.8
				3.9
				4.0
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				12.0
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				13.7
				13.8
				13.9
				14.0
				14.1
				14.2
				14.3
				14.4
				14.5
				14.6
				14.7
				14.8
				14.9
				15.0

FORM 10. McARA

GEOLOGIST J. L. BEE

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION _____

SHEET NO. _____

DATE _____

[illegible]

HELTON ENGINEERING LTD. WELLSITE SAMPLE DESCRIPTION

WELL NAME _____
LOCATION _____

SHEET NO. 6
DATE _____

LITHOLOGY	DEPTH	SAMPLES		SAMPLE DESCRIPTION
		NO.	STAGE	
				is light grey argillaceous
				no sample
				is light grey argillaceous
				is a brown shale light green
				is a
				is a
				is a brown light green-grey shale
				is a
				is a some salt light grey arg
				is a green-grey shale
				is a fine sand carbonaceous salt
				is light grey generally argillaceous minor mica
				is a fine light grey green argillaceous shale
				is a
				is a light grey green
				is a abundant laminated pyrite bituminous
				is a some shale grey green argillaceous
				is a
				is a
				is a med grey calcareous pyrite
				is a med light green grey shale calcareous with ls
				is light grey micaceous some shale grey green
				is a
				is a med salt light grey calcareous
				is a 50% salt
				is a 50% salt with grey green shale
				is a
				is a
				is a salt light grey calcareous arg shale light grey green
				is a
				is a light grey green some salt in
				is a some ls with argillaceous
				is a
				is a
				is a ls with grey
				is a
				is a light grey argillaceous
				is a light grey green micaceous ls
				is a

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION _____

SHEET NO. 1

DATE 11-11-68

[illegible]

HELTON ENGINEERING LTD.
WELL SITE SAMPLE DESCRIPTION

WELL NAME _____
LOCATION _____

SHEET NO. 0
DATE

[illegible]

HELTON ENGINEERING LTD. WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION 2700 W. 10TH AVE. DENVER, CO 80202

SHEET NO. _____

DATE _____

[illegible]

HELTON ENGINEERING LTD. WELLSITE SAMPLE DESCRIPTION

WELL NAME _____
LOCATION _____

SHEET NO. 10
DATE _____

LITHOLOGY	DEPTH	DRILL		SAMPLE DESCRIPTION
		PODS	STAIN	
				shale grey green calcareous
				shales screen not working
	4100			
	SPENCE RIVER			shale is above here shale very dark grey
	4120			
				to ls brown somewhat pellicular crypton
	4200			to shale very dk grey
				to shale very dk grey
				some shale very dk grey to ls common fragmental
	4200			some shale very dk grey
				grey to dk grey non calcareous
				shale very dk grey micaceous non calcareous
				bituminous
	4400			(these brown ls stringers)
	SLAVE POINT			
	4430			is in section pellicular crypton micaceous pt bituminous as some small pt pyrite abundant fine calcite
				has crypton bit some pale - fragmental
				some ls brown crypton c. pellicular abundant fine calcite
				as pt clayey - pale pt arg crypton
				in brown crypton pt clayey slightly stylized abundant fine calcite
	4500			

Sumner
R
4120

SP 4430

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION _____

SHEET NO. 10

DATE _____

[illegible]

FORM 10 McARA

GEOLOGIST

J. L. BEE

HELTON ENGINEERING LTD.
WELLSITE SAMPLE DESCRIPTION

WELL NAME _____

LOCATION

SHEET NO. 12

DATE _____

[illegible]

Linotype Types

FOSSALS

STROMATOPORA
 AMPHIZOIA
 ALGAE
 GASTROPOD
 BRACHIOPOD
 OSTREOD
 HORN CORALS
 CRINOID
 TENTACULITES
 BRYOZOA

GENERAL

SALT
SALT LASTS
ANHYDRITE/GYPSUM
HEXONITE
SECONDARY CALCITE
ALCALYOUS WHITE SPECKS
FOSPHOREOUS
FISH WE MANS (Scales, teeth, jaws, etc)
CHERT Translucent/semi opaque
CHERT Opaque
SILICEOUS
PHOSPHATE PELLETS
SIDERITE PELLETS
MASSIVE SIDERITE
GLAUCONITE
STYLOLITIC
MICA
PYRITE
FLOATING SAND GRAINS
COAL, ASPHALT, GILSONITE
BITUMIN
METAMORPHICS
LAVA
GRANITE
QUARTZITE

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SHALE

Shoes are tagged by steadily coloring in the column and matching the color of the shoes when possible.

COMBINATIONS

SANDY
SILTY
DOLOMITIC
CALCAREOUS / LIMY, etc

MISCELLANEOUS

LIVE OIL STAIN - SLIGHT
 TOP END
 MIDDLE
 END
 DEAD OIL STAIN - 10%
 PERF. PERFORATION - 100% PERFORATION EXCELLENT
 CURED INTERVAL
 DRILL STEM TEST
 CASING SEAT
 PLUG BACK

CORE DESCRIPTION

CORE #1: 487⁴~~2~~-4934'
Recovered 61'
58.5' Muskeg Formation

<u>Unit</u>	<u>Interval</u>	<u>Footage</u>	<u>Lithology</u>
1	4873.0-4882.4'	9.4'	<u>ANHYDRITE</u> : amber, massive bedded crypto-crystalline, rare thin dark grey shale partings.
2	4882.4-4883.4'	1.0'	<u>DOLOMITE</u> : buff, dense, crypto-crystalline, slightly argillaceous.
3	4883.4-4886.0'	2.8'	<u>ANHYDRITE</u> : amber to buff to brown, crypto-crystalline, bedded.
4	4886.0-4889.0'	3.0'	<u>DOLOMITE</u> : brown, crypto-crystalline, saturated with and bleeding crude oil and bubbling gas, from poor to very poor pin point porosity.
5	4889.0-4891.5'	2.5'	<u>ANHYDRITE</u> : translucent amber, crypto-crystalline.
6	4891.5-4893.6'	2.1'	<u>DOLOMITE</u> : brown, crypto-crystalline to micro-crystalline, bleeding brown crude from bedding planes and horizontal fractures.
7	4893.6-4895.8'	2.2'	<u>DOLOMITE</u> : dense, tan, crypto-crystalline, with irregular bituminous paper thin partings.

CORE DESCRIPTION Continued:

8	4895.8-4911.4'	15.8'	<u>ANHYDRITE</u> : amber, crypto-crystalline, bedded.
9	4911.4-4913.2'	1.10'	<u>DOLOMITE</u> : dense, buff, pyritic, anhydritic, slightly argillaceous.
10	4913.2-4916.9'	3.7'	<u>ANHYDRITE</u> : amber, crypto-crystalline.
11	4916.9-4917.8'	0.11'	<u>DOLOMITE</u> : brown, crypto-crystalline, anhydritic.
12	4917.8-4934.0'	16.4"	<u>ANHYDRITE</u> : amber, crypto-crystalline.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton

Fort St. John

Calgary

GAS ANALYSIS REPORT: Lab. No. 50-0001 Received: April 14, 1969 Reported: April 18, 1969

Well: Pan Am. Andex C-1 Cameron Operator: Pan American Petroleum Corporation

Field or Area: _____ Location: _____ Elev.: K.B. 2263 Grd. 2247

Zone and Formation: Sulphur Point Sample Interval: 4610' to 4730'

Well production at sampling time: Oil _____ bpd; Gas _____ MCFD; Water _____ bpd

Sampled from: flow line Sampled by: _____ Date: March 22, 1969

Pressure: (a) at point of sampling 2 psig (b) Gas Bomb pressure _____ psig

Temperature: (a) at point of sampling 30 °F (b) Separator _____ °F

Pressures: Reservoir _____ Tubing _____ Casing _____

OTHER PERTINENT DATA D.S.T. #1

(Signed)

APR 21 1969	
A.F.	
D.F.	
L.N.G. Separator	
R.H.	4/24
S.A.	
FILE SPECIFIC GRAVITY	

COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA	G.P.M. (Calculated)	
Helium	.00		pentanes + .163	Calculated .733
Hydrogen sulfide	.00		at 12 lbs. .164	by Weight .725
Carbon dioxide	1.22		at 15 lbs. .174	
Nitrogen	19.23		at 22 lbs. .203	CRITICALS (Calculated)
Methane	63.60		at 26 lbs. .225	Pc 654.9
Ethane	5.56			Tc 350.6
Propane	1.10	.251	VAPOR PRESSURE (Calc.) @ 100°F. Pentanes +	11.62
Isobutane	.21	.057	H ₂ S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a.	0
N-butane	.44	.115	GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. (dry)	859.6
Isopentane	.13	.039	Acid Gas Free 698.4 (sat.)	244.5
N-pentane	.14	.042	DEW POINT (Calc.) p.s.i.	
Hexanes	.12	.043	950 1050 1200	
Heptanes	.07	.025	FAH 28 24 18	
Octanes	.02	.009	Mol. Wt. Total Gas 21.243	Heptanes + 102.829
Nonanes	.01	.005	Sample received under a pressure of 1/2 psig. at 70°F. Analyses are corrected for 26.91% air contamination which was present with the gas. It is possible that the air may have contributed to part of the nitrogen content.	
Decanes +	.00	.000		
TOTAL	100.00	.586		

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton

Fort St. John

Calgary

OIL ANALYSIS REPORT: Lab. No. E69-9692-2

Received: Mar. 27, 1969 Reported: April 10, 1969

Pan Am Andex Cameron C-72

Well: (Pan Am. C-1 Cameron)

Operator: Pan American Petroleum Corporation

Field or Area: (Wildcat) N.W.T.

Location:

Elev.: K.B. 2263'

Grd. 2247'

Zone and Formation: Sulphur Point

Sample Interval: 4610' - 4730'

Method of Production: D.S.T. #1

Well Production or Recovery at Sampling Time:

Sampled from: Middle

Sampled by:

Date: March 22, 1969

OTHER PERTINENT DATA

COLOR blackish brown
 B.S.&W. Total 48.0 % Water 45.0 % Sediment 3.0 %
 Gravity: Specific 0.859 at 60/60°F.
 A.P.I. 33.3° at 60/60°F.
 Total Sulfur 1.09 % (by weight)
 Pour Point +40 °F.
 Salt Content --- lbs. per 1000 bbls. crude.
 Reid Vapor Pressure --- psig. at 100°F.
 Conradson Carbon 2.3 % (by weight)

Viscosities:

Temp. °F.	Absolute Centipoises	Kinematic Centistokes	Saybolt Universal Seconds
50	19.9	23.1	111.
70	9.82	11.5	64.1
100	5.91	7.00	48.8

BEMPEL (ASTM D-285)

DISTILLATION

Barometric Pressure 703.6 mm. Room Temp. 72 °F

% Distilled	Temp. °F.
1. B. P.	98
5	242
10	311
15	372
20	417
25	459
30	487
35	516
40	540
45	561
50	584
55	608
60	624
	626

DISTILLATION
SUMMARY

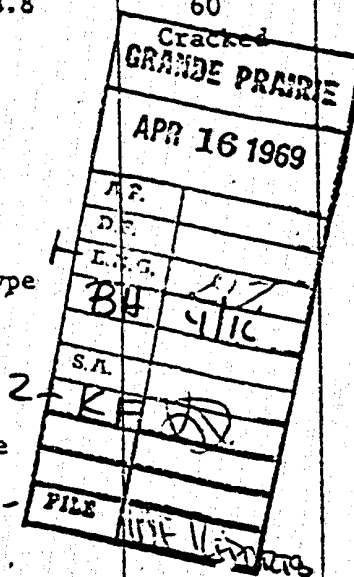
	%
400°F Naptha	17.8
525°F Kerosine	19.1
650°F Light Gas Oil	---
Recovered	---
Residue	---
Distillation Loss	---

REMARKS:

On the basis of the gasoline content (410-425°F. E.P.)
 and the A.P.I. Gravity, this oil is of a mixed base type

and by U.O.P. Method 375 it has a U.O.P. character-
 ization factor of 11.9

Sample was cleaned by centrifuging for the
 analysis.



OIL ANALYSIS REPORT: Lab. No. E69-9954-3
 Pan Am Annex Cameron C-22
 Well: (Pan Am. C-1 Cameron)

Received: April 16, 1969 Reported April 24, 1969

Operator: PAN AMERICAN PETROLEUM CORPORATION

Field or Area: (Wildcat) N. W. T. Location: --- Elev.: K.B. 2263' Grd. 2247'

Zone and Formation: Sulphur Point

Sample Interval: 4615'

Method of Production: D.S.T. #4

Well Production or Recovery at Sampling Time:

Sampled from: 180' Above Tool

Sampled by: ---

OTHER PERTINENT DATA Corban inhibitor used and mixed with diesel fuel.

COLOR	Blackish Brown					
B.S.&W. Total	---	% Water	---	% Sediment	---	%
Gravity: Specific		0.861		at 60/60°F.		
	A.P.I.	32.8°		at 60/60°F.		
Total Sulfur		1.25		% (by weight)		
Pour Point		+35		°F.		
Salt Content	---	lbs. per 1000 bbls. crude.				
Reid Vapor Pressure		---		psig. at 100°F.		
Conradson Carbon		2.5		% (by weight)		
<u>Viscosities:</u>						
Temp. °F.	Absolute Centipoises	Kinematic Centistokes	Saybolt Universal Seconds			
50	23.0	26.6	126.			
70	10.4	12.1	66.3			
100	6.21	7.34	49.9			

HENPEL (411-11-285) DISTILLATION: Barometric Pressure --- mm. Room Temp. 75°F

% Distilled	Temp. °F.
I. B. P.	98
5	251
10	314
15	359
20	420
25	454
30	482
35	507
40	534
45	559
50	579
55	594

Cracked 598

DISTILLATION SUMMARY

	%
400°F Naptha	17.7
525°F Kerosine	20.3
650°F Light Gas Oil	----
Recovered	----
Residue	----
Distillation Loss	----

REMARKS:

On the basis of the gasoline content (410-425°F. E.P.) and the A.P.I. Gravity, this oil is of a Mixed Base type

and by U.O.P. Method 375 it has a U.O.P. characterization factor of 11.9.

Sample consisted of approximately 30% oil, 70% water.

The oil was cleaned for analysis by centrifuging.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E69-9955-3 D.V.D

Received: April 11, 1969 Reported: April 21, 1969

Pan Am Amplex Cameron C-22

Well: Location: (Pan Am. Amplex C-1)

Operator: PAN AMERICAN PETROLEUM CORPORATION

Field or Area: (Wildcat) N. W. T.

Well: K.B. 2263' Grd. 2247 Zone/Formation: Keg River

Sample Interval: 4835' - 4995'

Method of Production: D.S.T. #2

Sampled from: Bottom

Sampled by: ---

Date Mar. 25, 1969

OTHER PERTINENT DATA

(Signed)

Na	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
28,760		6,543	1,434	1,985	58,100		960
1251.08		326.50	117.87	41.29	1638.42		15.74
36.90		9.63	3.48	1.22	48.32		0.46

Total Solids Mg/L:

By Evaporation 108,620

Fe Present

Specific Gravity

1.073 @ 60°F

Observed pH 6.1

@ 72 °F

Calculated 97,782

After Ignition

91,100

H₂S Present

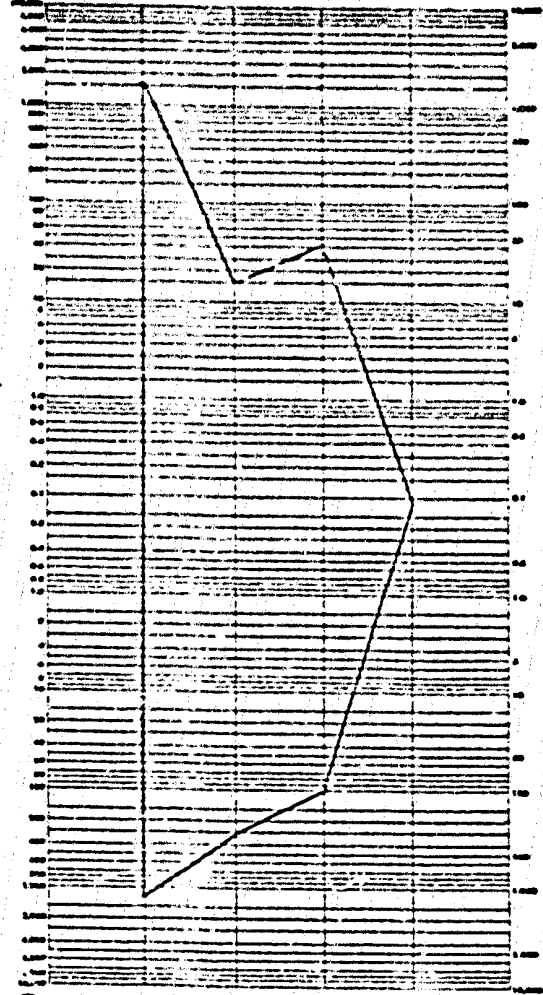
Refractive Index

1.3504 @ 25 C

Resistivity 0.097 ohm meters @

68 °F

Pattern Unit Meq./L



Remarks and Conclusions The water was slightly greenish in colour and contained a thin layer of sediment.

E69-9955-1: Sampled from top.

RESISTIVITY: 0.392 Ohm-Meters @ 65°F.

30% layer mud, 70% greenish free water. H₂S present

E69-9955-2: Sampled from middle.

RESISTIVITY: 0.152 Ohm-Meters @ 68°F.

Greenish water with a thin layer of mud. H₂S present.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E09-9692-3

Pan Am Amlex Cameron C-22

Received: Mar. 27, 1969 Reported: April 2, 1969

Well: Location: (Pan Am. C-1 Cameron)

Operator: PAN AMERICAN PETROLEUM CORPORATION

Field or Area: (Wildcat) N.W.T.

Sample Interval: 4610' - 4730'

Elev.: K.B. 2263' Grd. 2247 Zone/Formation: Sulphur Point

Sampled by:

Method of Production: D.S.T. #1

Sampled from: Bottom

Date: Mar. 22, 1969

OTHER PERTINENT DATA

(Signed)

Na	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
/L 29,286		6,073	1,652	365	60,000		820
/L 1273.96		303.29	135.79	7.59	1692.00		13.45
% 37.18		8.85	3.96	0.22	49.39		0.39

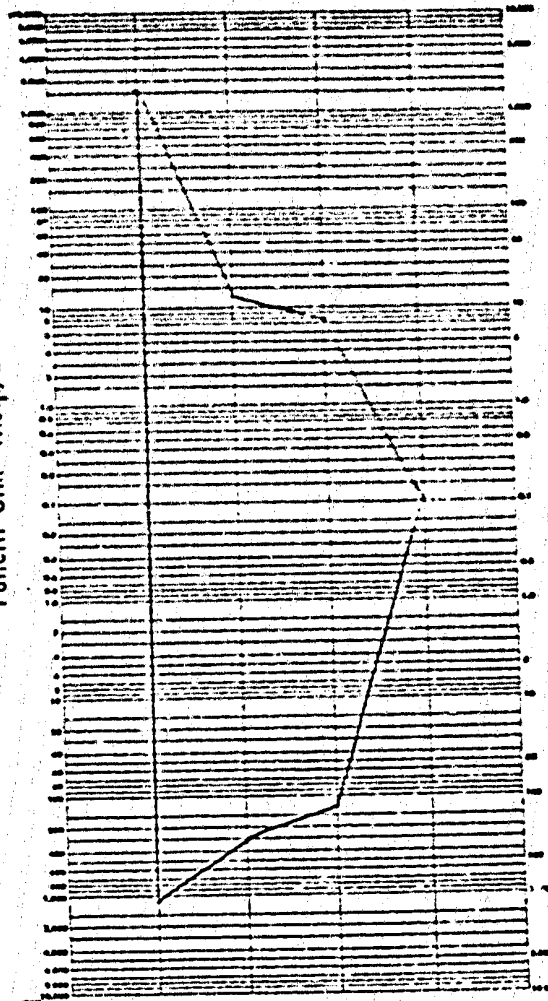
Total Solids Mg/L: By Evaporation 101,500 Fe Present Specific Gravity 1.073 @ 60°F

Calculated 98,201 After Ignition 81,780 H₂S Present Refractive Index 1.3504 @ 25°C

Observed pH 6.1 @ 72 °F

Resistivity 0.090 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of light greenish water with some sediment.

E09-9692-1:

RESISTIVITY: 0.090 Ohm-Meters @ 68°F.

Light greenish water filtered from muddy water.

H₂S present.

SA

FILE

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E69-9953-2

Received April 16, 1969 Reported: April 21, 1969

Well: Location:

Pan Am Aridex' Cameron C-22
(Pan Am. Cameron C-1)

Operator: PAN AMERICAN PETROLEUM CORPORATION

Field or Area: (Wildcat) N. W. T.

Loc.: K.B. 2263' Grd. 2247' Zone/Formation: Keg River

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

Sampled from: Bottom

Sampled by:

Sample Interval: 5300' - 5250'

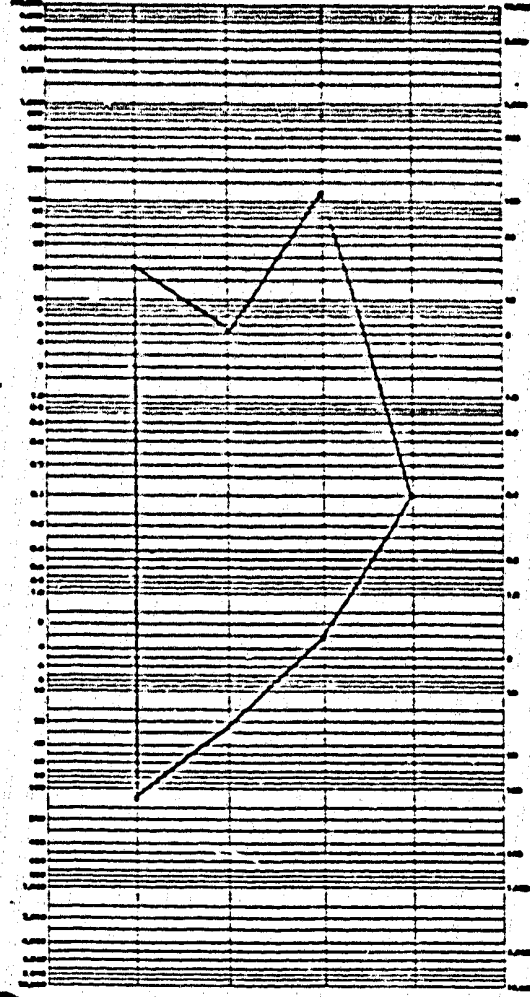
Date: Mar. 31, 1969

OTHER PERTINENT DATA Corban inhibitor used in pipe with diesel fuel.

Na	K	Ca	Mg	SO ₄	Cl	HCO ₃
2,991		529	40	6,447	720	330
130.12		26.40	3.29	134.10	20.30	5.41
40.71		8.26	1.03	41.96	6.35	1.69

Total Solids Mg/L: By Evaporation 11,140 Fe N11 Specific Gravity 1.008 @60°F Observed pH 7.9 @ 72 °F
Calculated 11,057 After Ignition 10,604 H₂S N11 Refractive Index 1.3349 @25°C Resistivity 0.955 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions Sample consisted of approximately 40% layer colourless free water, 60% mud. Organic matter in total solids.

E69-9953-1: Sampled from middle.

RESISTIVITY: 0.955 Ohm-Meters @ 68°F.

40% colourless free water, 60% mud layer.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E69-9954-3

Pan Am Amlex Cameron, C-22
(Pan Am. C-1 Cameron)

Received: April 16, 1969 Reported: April 21, 1969

Well: location:

Field or Area: (Wildcat) N. W. T.

Operator: PAN AMERICAN PETROLEUM CORPORATION

Elev.: K.B. 2263' Grd. 2247' Zone/Formation: Sulphur Point

Sample Interval: 4615' - 4646'

Method of Production: D.S.T. #4 Sampled from: 180' Above Tool Sampled by: --- Date: April 1, 1969

OTHER PERTINENT DATA

Corban inhibitor used and mixed with diesel fuel.

(Signed)

Na	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃
4,531		993	118	6,324	3,495		1,600
197.09		49.55	9.70	131.54	98.56		26.24
38.44		9.66	1.89	25.66	19.22		5.12

Total Solids Mg/L:

By Evaporation 16,445

Fe Trace Specific Gravity 1.012 @60°F

Observed pH 8.0 @ 72 °F

Calculated 17,061

After Ignition 15,360

H₂S Present Refractive Index 1.3360 @25°C

Resistivity 0.631 ohm meters @ 68 °F

Pattern Unit Meq./L

REMARKS & CONCLUSIONS: Sample consisted of water with a layer of oil and oil-water emulsion.
The filtered water had a greenish discoloration.
Organic matter in total solids.

E69-9954-1: Sampled from top.

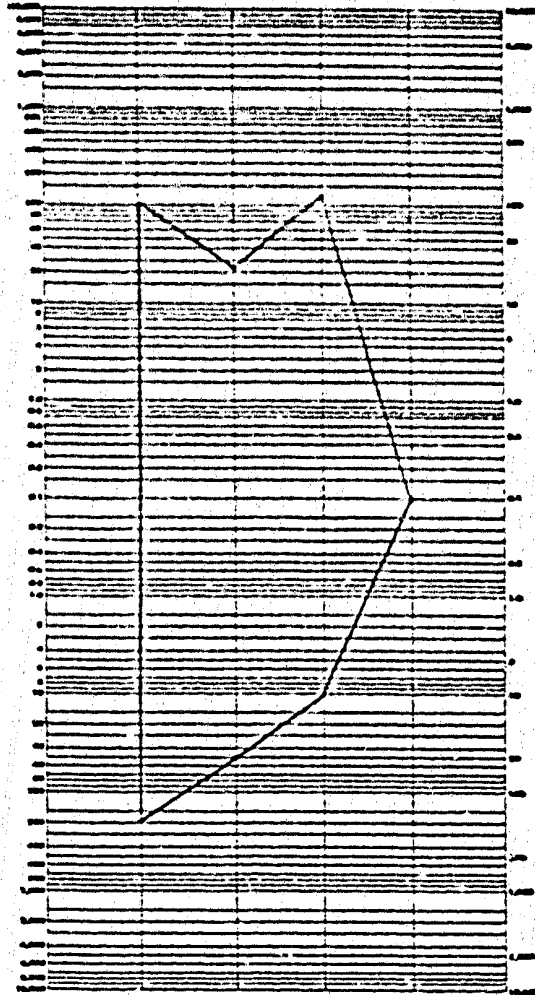
RESISTIVITY: 0.912 Ohm-Meters @ 68°F.

Muddy water with a layer of mud. Yellow filtrate. H₂S present.

E69-9954-2: Sampled from middle.

RESISTIVITY: 0.732 Ohm-Meters @ 68°F.

Oil cut, water cut mud. Greenish filtrate. H₂S present.



TESTING CORING

D.S.T. # 1 WELL NAME PAI MI AIDE X : CAMERON C-221



DRILL STEM TESTING & CORING LTD.

EDMONTON, PHONE 433-7273

CALGARY, PHONE 269-2923

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

1

Date MARCH 22, 1969.
 Customer PAN AMERICAN PETROLEUM CORP.,
444 -7th AVE. S.W.,
CALGARY 2, ALBERTA.
 Well Name PAN AM AND CAMERON C-22
 Location 2144 T.
 Area CAMERON HILLS
 Formation TIGHT HOLE
 Est. Pay Thick ---
 Ticket No. B-1349
 Purchase Order No. E-9186-5

Interval 4610' TO 4730'
 Test Duration 365 MINUTES
 Initial Hydrostatic 2160
 Final Hydrostatic 2155
 Initial Flowing 308
 Final Flowing 1107 after 180 mins.
 Initial Shut-In 1448 after 60 mins.
 Final Shut-In 1430 after 120 mins.
 Blow GOOD
 Recovery 2340'

Mud Type GEL. CHEM. Size Full Hole 8-3/4" Size Rubber 7-3/4"
 Mud Wt. 8.9 Size Rat Hole --- O.D. Drill Collar 6-1/4"
 Vis. 42 Size & Type Pipe 4-1/2" X.H. O.D. Sub or T.J. 5-3/4"
 W. L. 1.5 Time Circulated --- Hrs. Tool Length 62.90'
 pH 8.0 Where Circulated BOTTOM Rat Hole Length ---
 F. C. 2/32 Bit off Bottom 11.15 P.M. Difference ---
 Condition GOOD Formation TIGHT HOLE Total Depth 4730'
 TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. PUMP OUT SUB. 1EX PACKER. FAIL SAFE HEAD.
FLOOR VALVE/OLD

Type of Test DUAL BOTTOM HOLE Wt. to Set Packer 35,000 15,000 To Pull Loose
 Initial Puff GOOD Gas Flow T.S.T.M. Size 3/4" Fluid Cushion ---
 Temp. --- Gravity --- No. Drill Collars 9(4 1/2 H90) Length 264.15' I.D.'s 2-7/8"

PRESSURES

FLUID RECOVERY

Started In 4.30 M. Recorder No. ---
 Tool Open 7.15 M. Depth Run ---
 " Closed 7.20 M. Hydrostatics ---
 " Open 8.20 M. Flow ---
 " Closed 11.20 M. Initial S.I.P. ---
 " Loose 1.20 M. Final S.I.P. ---
 " Out 5.45 M. Difference ---

3357	2314
4585'	4615'
2149-2142	2160-2155
303-1102	308-1107
1443	1448
1428	1430
15	18

Mud 180'
 Oil 720'
 Water 1440'
 Total 2340'
 Sampled at
DRILL PIPE & COLLARS.

Description of Fluid 180' OF GAS CUT MUD. 720' BLACKISH LIGHT OIL. 1440' SALT WATER.

Witnessed By: REMUS.

REMARKS: GOOD INITIAL PUFF. GOOD BLOW WITH GAS TO SURFACE IN 12 MINUTES.
GAS TO SMALL TO MEASURE. GAS BURNED WITH A 2' TO 3' FLARE THROUGHOUT TEST.

TEST SATISFACTORY.

R.H. GUNDERSON.

Testing Supervisor

Customer's Representative

D.S.T. #

1

WELL NAME

PAN AM AND

CAMERON C-22

DEFINITIONS

P_w = Shut in well pressure, particular, F.S.I.P. psi
 P_f = Flowing well pressure, particularly F.F.P. psi
 P_o = Reservoir pressure from F.S.I.P. or plot psi
 T = Time of test influence on reservoir usually flowing time - minutes
 t = Convenient incremental time - minutes
 Q = Daily rate of flow - mcf/day or bbls./day
 m = Slope of build up curve
 $E.D.R.$ = Estimated damage ratio

μ = Viscosity - centipoise
 k = Permeability - millidarcy
 h = Pay thickness - feet
 Z = Gas deviation factor
 $A.O.F.$ = Absolute open flow - million cubic feet/day
 $P.I.$ = Productivity index - mcf. or bbls./day/psi
 $g.o.$ = Subscript denotes gas or oil
 B = Formation volume factor

BUILD UP PRESSURE						FLOWING PRESSURE							
Rec. # 3357		Rec. # 2314		P _w	t	T+t	Rec. # 3357		Rec. # 2314		P _f	t	Q
Initial	Final	Initial	Final			†	Initial	Final	Initial	Final			
1421	1370	1428	1376		10		238	322		333		10	
1434	1389	1442	1397		20			403		408		20	
1438	1401	1447	1406		30			471		473		30	
1440	1406	1448	1412		40			533		536		40	
1441	1411	1448	1417		50			596		597		50	
1443	1415	1448	1421		60			661		660		60	
	1418		1423		70			704		708		70	
	1421		1426		80			757		756		80	
	1423		1427		90			801		801		90	
	1425		1429		100			845		845		100	
	1427		1430		110			887		885		110	
	1428		1430		120			926		924		120	
								958		950		130	
								994		994		140	
								1022		1026		150	
								1052		1053		160	
								1078		1080		170	
								1102		1107		180	

m = slope of straight line portion of build up curve

$$kh = \frac{162.6 Q \mu B}{m_o} \quad \text{or} \quad \frac{1637 Q g \mu Z \text{ temp}}{m_g}$$

$$E.D.R. = \frac{P_o - P_f}{m_o (\log T + 1.75)} \quad \text{or} \quad \frac{P_o^2 - P_f^2}{m_g (\log T + 3.85)}$$

$$k = \frac{kh}{h}$$

$$P.I. = \frac{Q_o}{P_o - P_f} \quad \text{or} \quad \frac{Q_g}{P_o^2 - P_f^2}$$

psi
cycle
md ft

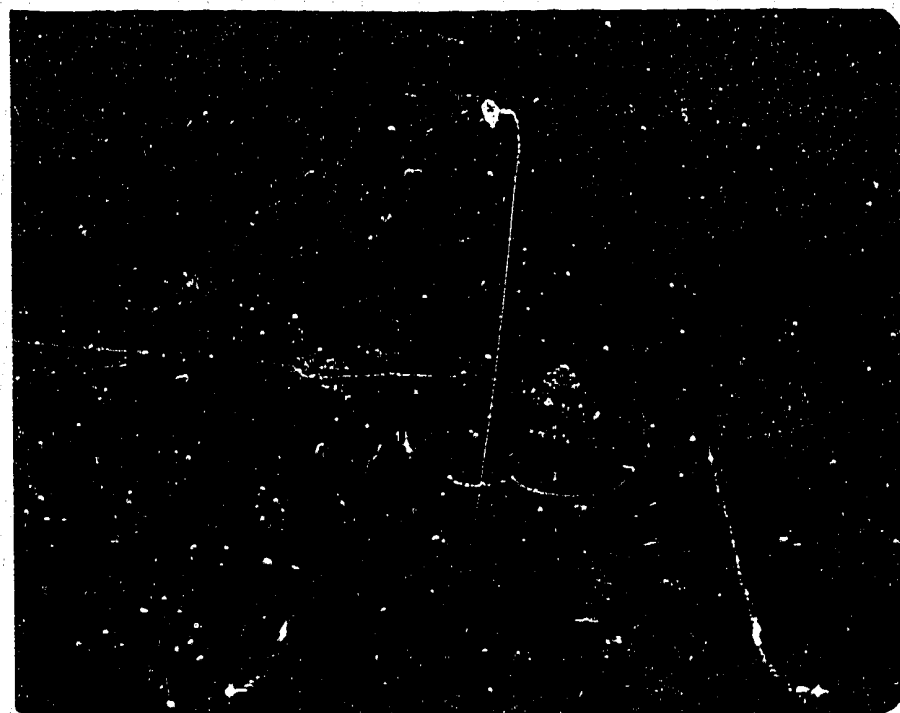
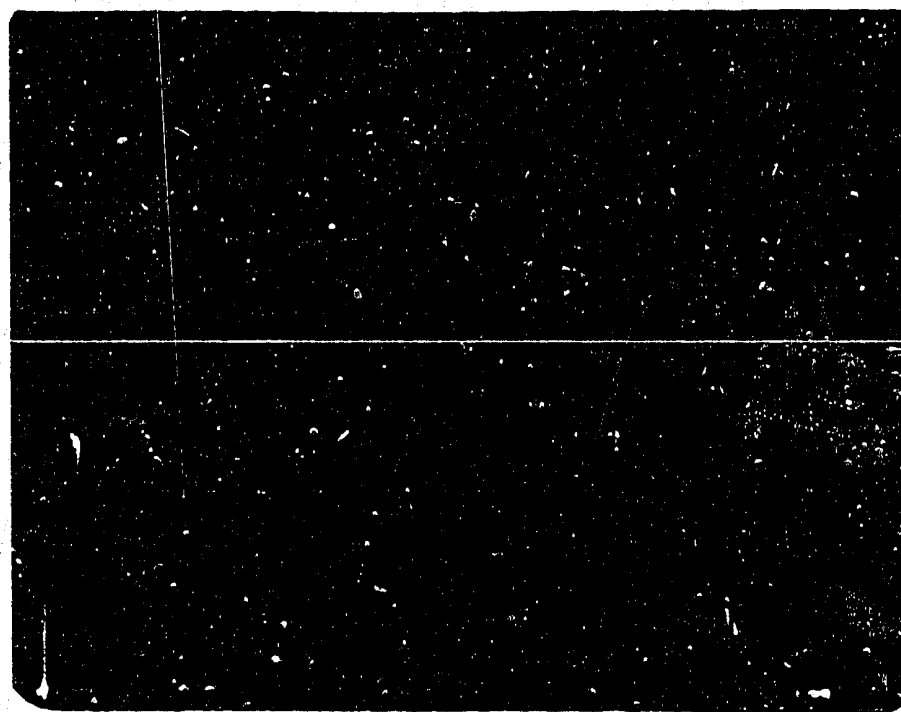
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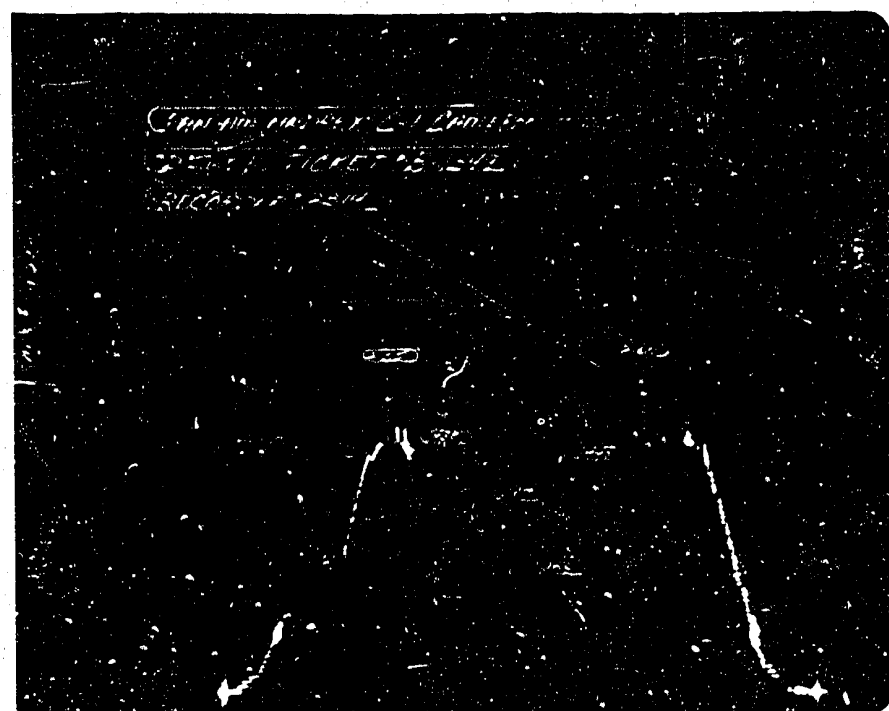
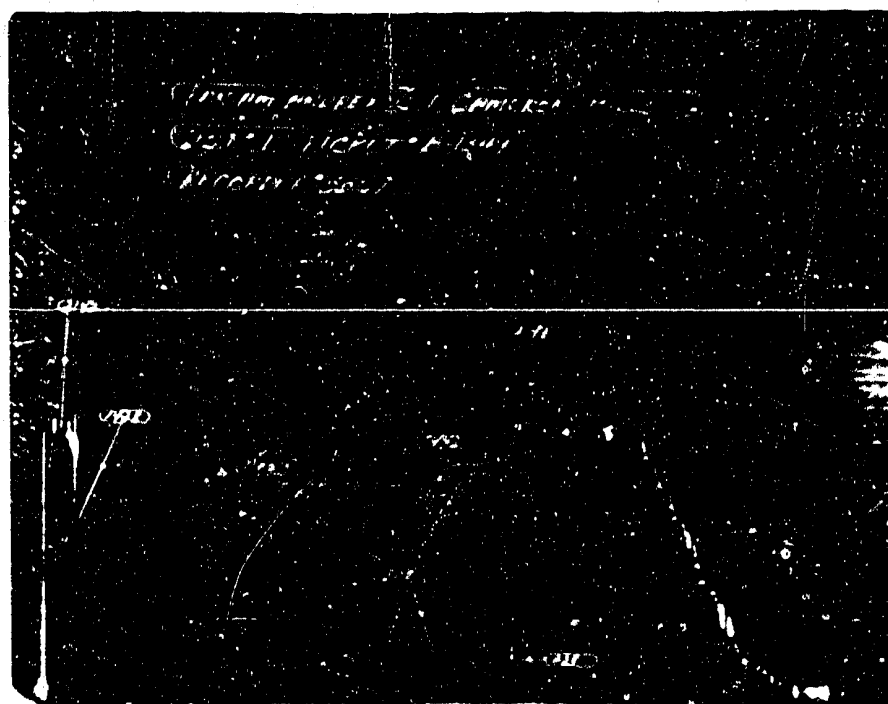
md

bbls/day/psi
mcf/day/psi

ASSUMPTIONS AND LIMITATIONS

Interpretation calculations require necessary assumptions to provide a quick estimation of many of the factors involved. Consequently, the calculations herein should be used as an estimate only, pending more complete analysis and testing. Drill Stem Testers makes no warranty express or implied as to the accuracy of such calculations, evaluations, or opinions, and shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.





**TESTING
CORING**



DRILL STEM TESTING & CORING LTD.

EDMONTON. PHONE 433-7793

CALGARY. PHONE 269-2925

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

2

Date MARCH 25, 1969.

Interval 4835' TO 4995'

Customer PAN AMERICAN PETROLEUM CORPORATION

Test Duration 305 MINUTES

444 - 7th AVE. S.W.

Initial Hydrostatic 2329

CALGARY 2, ALBERTA

Final Hydrostatic 2329

Well Name PAN AM AIDEX CAMERON C-22

PRE- 213

Initial Flowing 308

Location N.W.T.

Final Flowing 792 after 120 mins.

Area CAMERON HILLS

Initial Shut-In 1557 after 60 mins.

Formation TIGHT HOLE

Final Shut-In 1559 after 120 mins.

Est. Pay Thick. ---

Blow WEAK

Ticket No. B-1350

Recovery 1350'

Purchase Order No. E-9186-5

Mud Type <u>GEL.</u>	Size Full Hole <u>8-3/4"</u>	Size Rubber <u>7-3/4"</u>
Mud Wt. <u>9.0</u>	Size Rat Hole <u>---</u>	O.D. Drill Collar <u>6-1/4"</u>
Vis. <u>60</u>	Size & Type Pipe <u>4-1/2" X.H.</u>	O.D. Sub or T.J. <u>6"</u>
W. L. <u>12</u>	Time Circulated <u>2</u> Hrs.	Tool Length <u>66.15'</u>
pH <u>9.5</u>	Where Circulated <u>BOTTOM</u>	Rat Hole Length <u>---</u>
F. C. <u>2/32</u>	Bit off Bottom <u>11.45</u> P.M.	Difference <u>---</u>
Condition <u>GOOD</u>	Formation <u>TIGHT HOLE</u>	Total Depth <u>4995'</u>
TEST EXTRAS: <u>SAFETY JT. DOUBLE SHUT IN. JARS. PUMP OUT SUB. 1 EX PACKER.</u>		

Type of Test DUAL BOTTOM HOLE Wt. to Set Packer 30,000 10,000 To Pull Loose

Initial Puff VERY WEAK Gas Flow T.S.T.M. Size 3/4" Fluid Cushion NIL

Temp. --- Gravity --- No. Drill Collars 22(41890) Length 567.86' I.D.'s 2-7/8"

PRESSURES

FLUID RECOVERY

Started In <u>5.30 P.M.</u>	Recorder No. <u>3357</u>
Tool Open <u>6.45 P.M.</u>	Depth Run <u>4855'</u>
" Closed <u>5.50 P.M.</u>	Hydrostatics <u>2324-2324</u>
" Open <u>7.50 P.M.</u>	Flow <u>307-790</u>
" Closed <u>9.50 P.M.</u>	Initial S.I.P. <u>1550</u>
" Loose <u>11.50 P.M.</u>	Final S.I.P. <u>1555</u>
" Out <u>5.10 A.M.</u>	Difference <u>5</u>

	2314	
	4860'	
	2329-2329	
	308-792	
	1557	
	1559	
	2	

Mud 120'
Oil ---
Water 1230'
Total 1350'
Sampled at DRILL PIPE AND COLLARS.

Description of Fluid 120' GAS CUT MUD. 1230' BLACK SULPHUROUS GAS CUT SALT WATER.

Witnessed By: WALLY KUYSTERS.

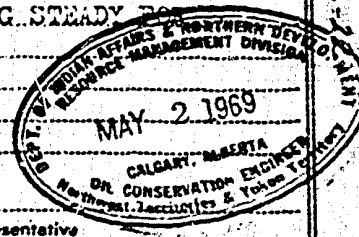
REMARKS: WEAK INITIAL AIR PUFF. WEAK AIR BLOW ON FLOW. REMAINING STEADY FLOW PERIOD.

TEST SATISFACTORY.

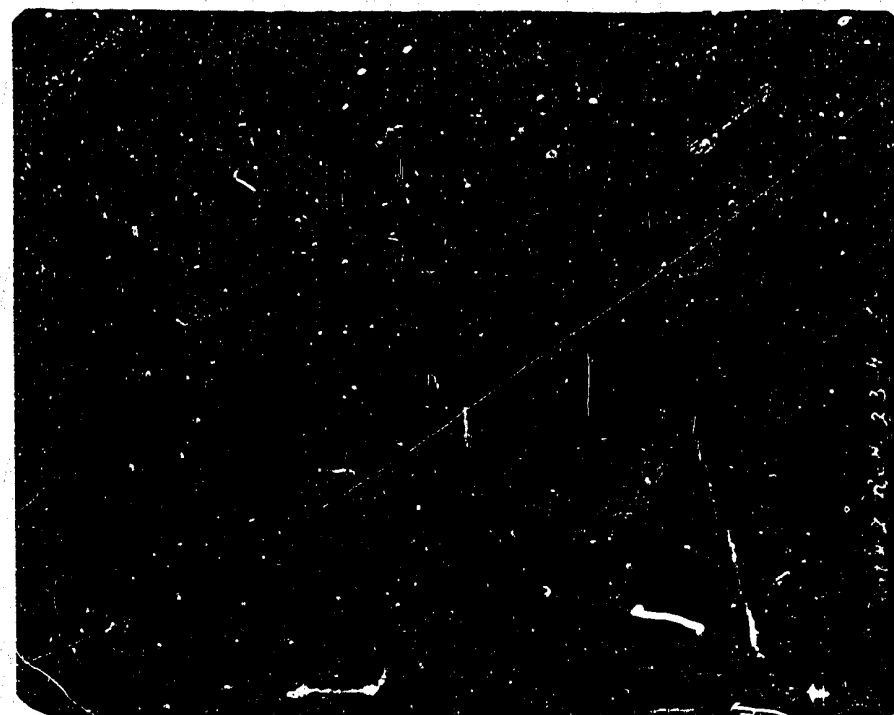
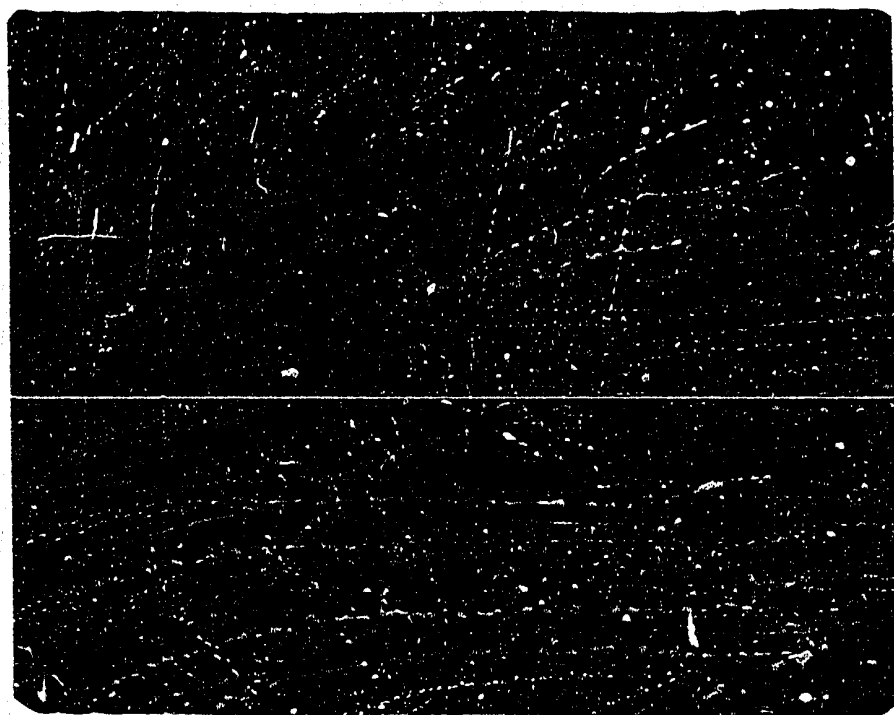
R.H. GUNDERSON.

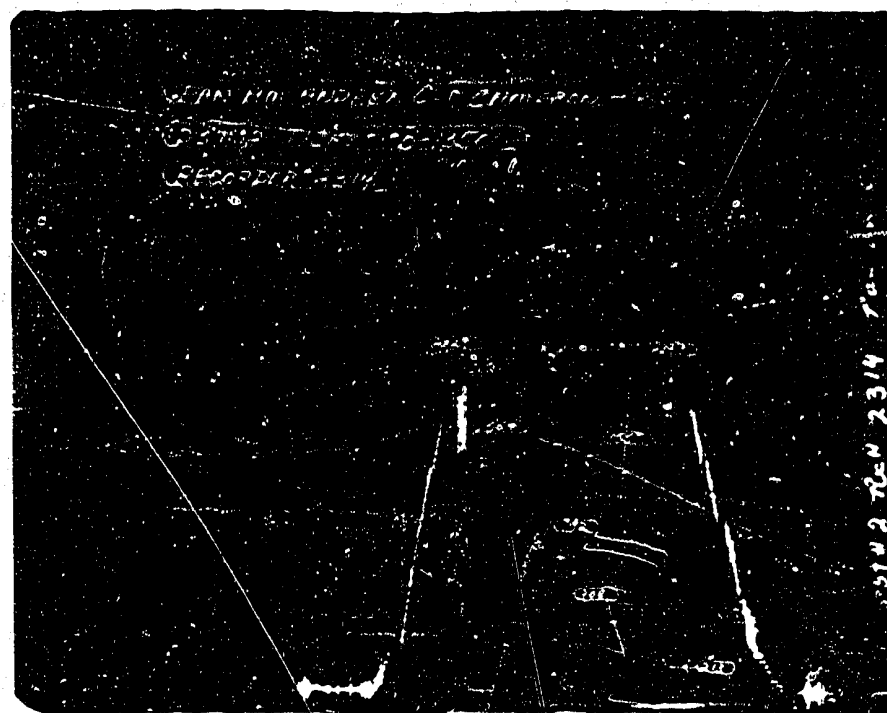
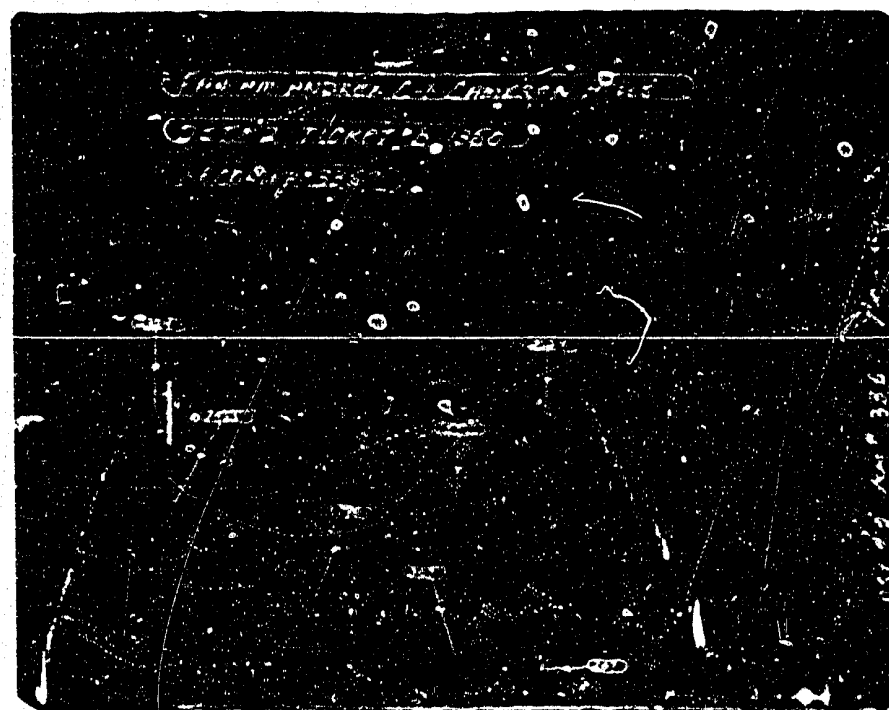
Testing Supervisor

Customer's Representative



D.S.T. # 2 WELL NAME PAN AM AIDEX CAMERON C-22





**TESTING
CORING**



DRILL STEM TESTING & CORING LTD.

EDMONTON: PHONE 433-7793

CALGARY: PHONE 249-2925

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

3

Date MARCH 31, 1969.
 Customer PAT AMERICAN PETROLEUM CORP.,
444 - 7th AVE. S.W.,
CALGARY 2, ALBERTA.
 Well Name PAT AM ALDEX CAMERON C 12
 Location S.W.T.
 Area CAMERON HILLS.
 Formation TIGHT HOLE
 Est. Pay Thick. --
 Ticket No. B-276
 Purchase Order No. E-9186-5

Interval 5250' TO 5300'
 Test Duration 245 MINUTES
 Initial Hydrostatic 2470
 Final Hydrostatic 2467
PRE- 68
 Initial Flowing 85
 Final Flowing 93 after 90 mins.
 Initial Shut-In 320 after 60 mins.
 Final Shut-In 325 after 90 mins.
 Blow VERY WEAK
 Recovery 120'

Mud Type 221 Size Full Hole 2-3/4" Size Rubber 7-3/4"
 Mud Wt. 9.0 Size Rat Hole -- O.D. Drill Collar --
 Vis. 54 Size & Type Pipe 4-1/2" X.H. O.D. Sub or T.J. 6"
 W. L. 8.0 Time Circulated 12 Hrs. Tool Length 91.60'
 pH 8.0 Where Circulated BOTTOM Rat Hole Length --
 F. C. 2/32 Bit off Bottom -- M. Difference --
 Condition -- Formation TIGHT HOLE Total Depth 5300'
 TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. PUMP OUT SUB. FAIL SAFE HEAD.

Type of Test DUAL BOTTOM HOLE Wt. to Set Packer 32,000 15,000 To Pull Loose
 Initial Puff WEAK Gas Flow -- Size Bean 3/4" Fluid Cushion --
 Temp. 122° Gravity -- No. Drill Collars -- Length -- I.D.'s --

PRESSURES

Started In -- M. Recorder No. 2814
 Tool Open 3.45 M. Depth Run 5260'
 " Closed 3.50 M. Hydrostatics 2467-2467
 " Open 4.50 M. Flow 75-80
 " Closed 6.20 M. Initial S.I.P. 300
 " Loose 7.50 M. Final S.I.P. 320
 " Out 12.00 M. Difference 20

2814	3357
5260'	5265'
2467-2467	2470-2467
75-80	82-93
300	310
320	325
20	15

FLUID RECOVERY

Mud 120'
 Oil --
 Water --
 Total 120'
 Sampled at TOP OF TOOL

Description of Fluid 120' CORBAN AND DRILLING MUD.

Witnessed By: WALLY KYSTERS.

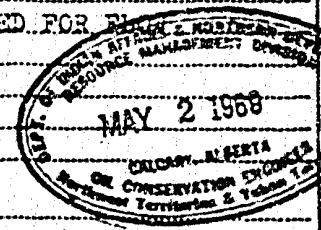
REMARKS: WEAK INITIAL AIR PUFF. VERY WEAK AIR BLOW WHEN OPENED FOR PERIOD. RESET TOOL AFTER 30 MINUTES ON FLOW.

TEST SATISFACTORY.

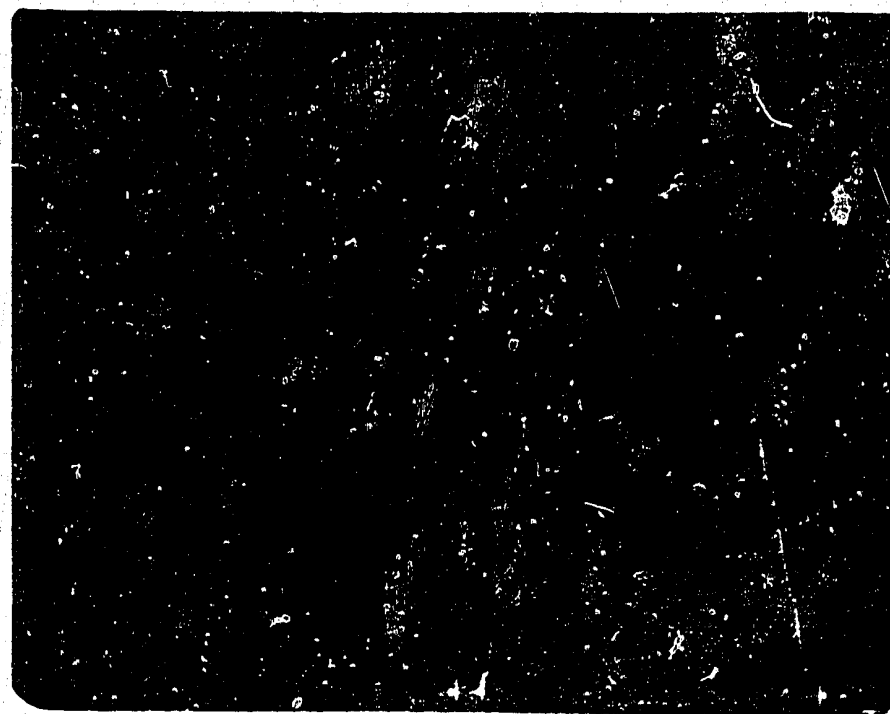
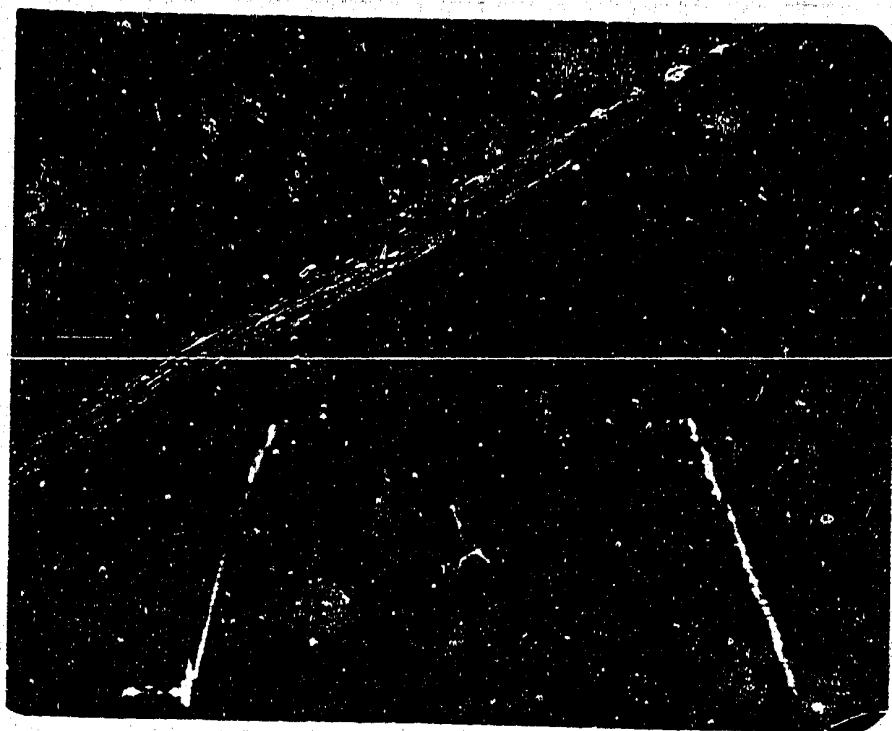
R.H. GUNDERSON.

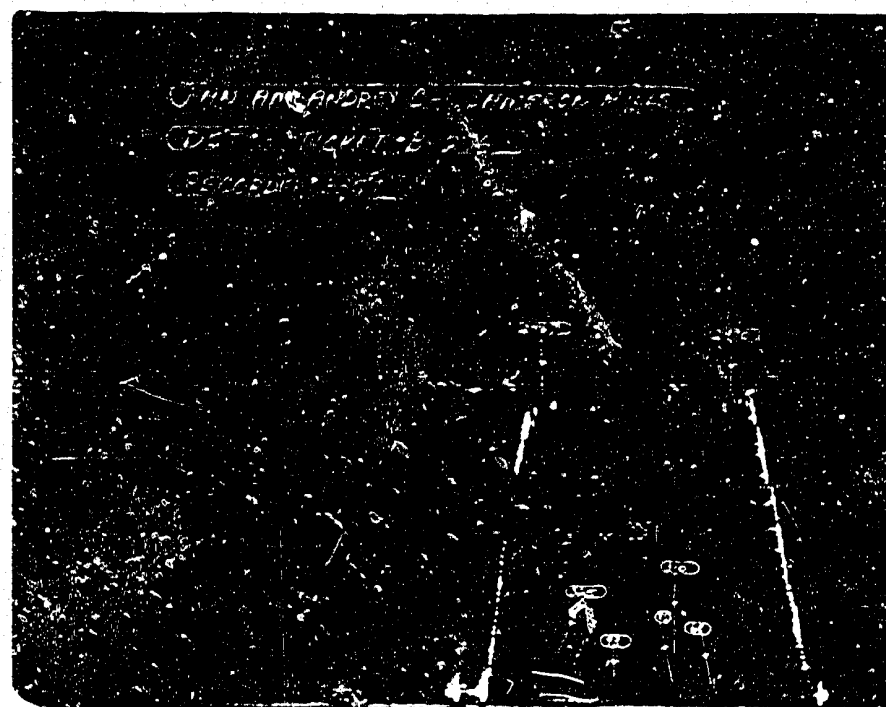
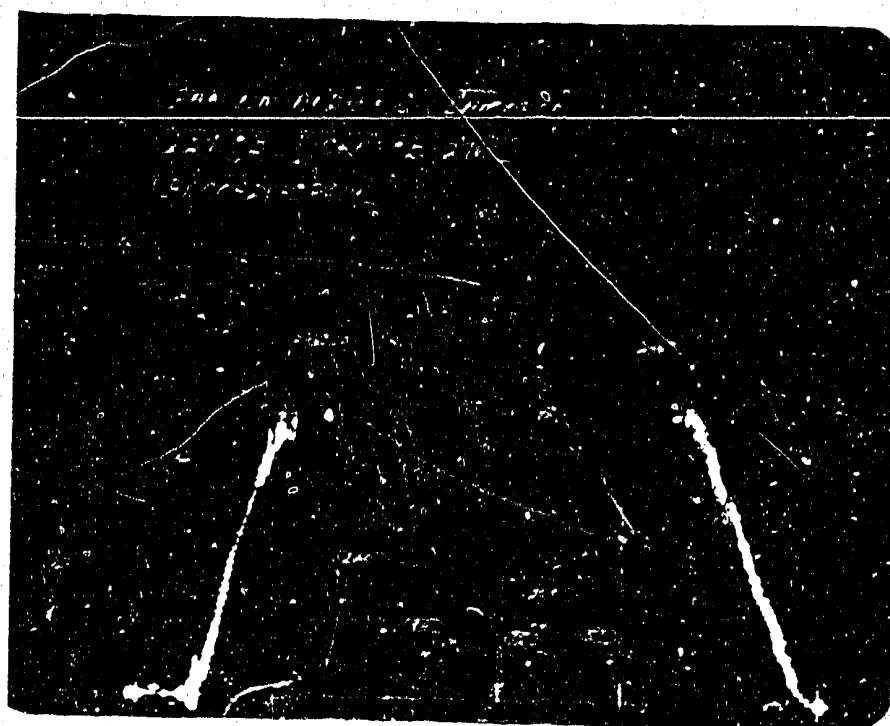
Testing Supervisor

Customer's Representative



D.S.T. # 3
 WELL NAME
 PAT AM ALDEX
 CAMERON C-12





DRILL STEM TESTING & CORING LTD.

EDMONTON, PHONE 433-7292

CALGARY, PHONE 269-2923

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

4

Date APRIL 1, 1969.
 Customer PAX AMERICAN PETROLEUM CORP.
444 - 7th AVE. S.W.
CALGARY 2, ALBERTA.
 Well Name PAX AM ANDER CAMERON C-22
 Location N.W.T.
 Area CAMERON HILLS
 Formation TIGHT HOLE
 Est. Pay Thick. --
 Ticket No. B-277
 Purchase Order No. K-2186-5

Interval 4615' TO 4646'
 Test Duration 245 MINUTES
 Initial Hydrostatic 2201
 Final Hydrostatic 2189
 PRE- 175
 Initial Flowing 299
 Final Flowing 261 after 90 mins.
 Initial Shut-In 1301 after 60 mins.
 Final Shut-In 1282 after 90 mins.
 Blow WEAK
 Recovery 675'

Mud Type GEL. Size Full Hole 8-3/4" Size Rubber 7-3/4"
 Mud Wt. 9.0 Size Rat Hole -- O.D. Drill Collar 6-1/4"
 Vis. 76 Size & Type Pipe 4-1/2" X.H. O.D. Sub or T.J. 6"
 W. L. 7.5 Time Circulated 6 Hrs. Tool Length 92.40'
 pH 8. Where Circulated T.D. Rat Hole Length --
 F. C. 2/32 Bit off Bottom MARCH 31 10.00 A.M. Difference --
 Condition GOOD Formation TIGHT HOLE Total Depth 5300'
 TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. PUMP OUT SUB. BY-PASS EQUIP.
FLUID CUSHION. FULL SIZE HEAD. 1 BY PACKER

Type of Test STRADDLE BY-PASS Wt. to Set Packer 30,000 15,000 To Pull Loose
 Initial Puff PAIR Gas Flow -- Size Bean 3/4" Fluid Cushion NIL
 Temp. -- Gravity -- No. Drill Collars 3(4 1/2" H90) Length 92.18' I.D.'s 2-7/8"

PRESSURES

FLUID RECOVERY

Started In 1.45 M. Recorder No. 2314
 Tool Open 4.55 M. Depth Run 4635'
 " Closed 5.00 M. Hydrostatics 2198-2186
 " Open 6.00 M. Flow 188-252
 " Closed 7.30 M. Initial S.I.P. 1301
 " Loose 9.00 M. Final S.I.P. 1281
 " Out 12.05 M. Difference 20

2314	3357
4635'	4640'
2198-2186	2201-2189
188-252	199-261
1301	1301
1281	1282
20	19

Mud 180'
 Oil 315'
 Water 180'
 Total 675'
 Sampled at TOP, KIDDLE
AND TOP OF TOOL.

Description of Fluid 90' CORBAN. 90' SALT WATER. 180' MUD. 315' GAS CUT OIL.

Witnessed By: WALLY KUYSTERS.

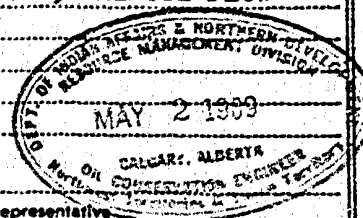
REMARKS: FAIR TO WEAK INITIAL AIR PUFF. WEAK BLOW DECREASING ON 90 MINUTE FLOW PERIOD.

TEST SATISFACTORY.

R.H. GUNDERSON.

Testing Supervisor

Customer's Representative



D.S.T. # 4

WELL NAME

PAI AM ANDER

CAMERON C-22

DEFINITIONS

P_w = Shut in well pressure, particularly F.S.I.P. psi
 P_f = Flowing well pressure, particularly F.F.P. psi
 P_o = Reservoir pressure from F.S.I.P. or plot psi
 T = Time of test influence on reservoir usually flowing time - minutes
 t = Convenient incremental time - minutes
 Q = Daily rate of flow - mcf/day or bbls./day
 m = Slope of build up curve
 $E.D.R.$ = Estimated damage ratio

μ = Viscosity - centipoise
 k = Permeability - millidarcy
 h = Pay thickness - feet
 Z = Gas deviation factor
 $A.O.F.$ = Absolute open flow - million cubic feet/day
 $P.I.$ = Productivity index - mcf. or bbls./day/psi
 $g.o.$ = Subscript denotes gas or oil
 B = Formation volume factor

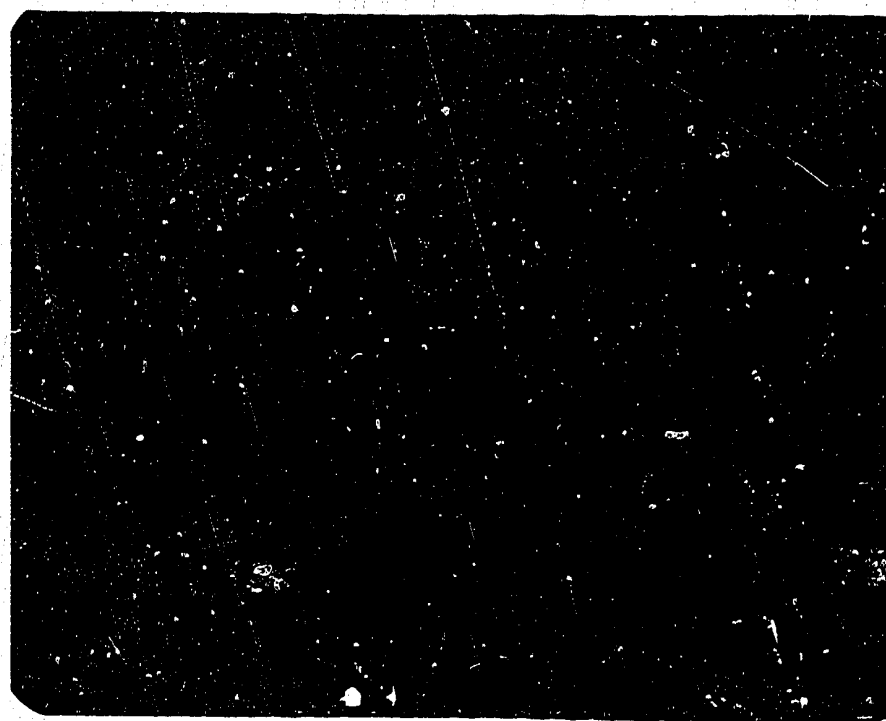
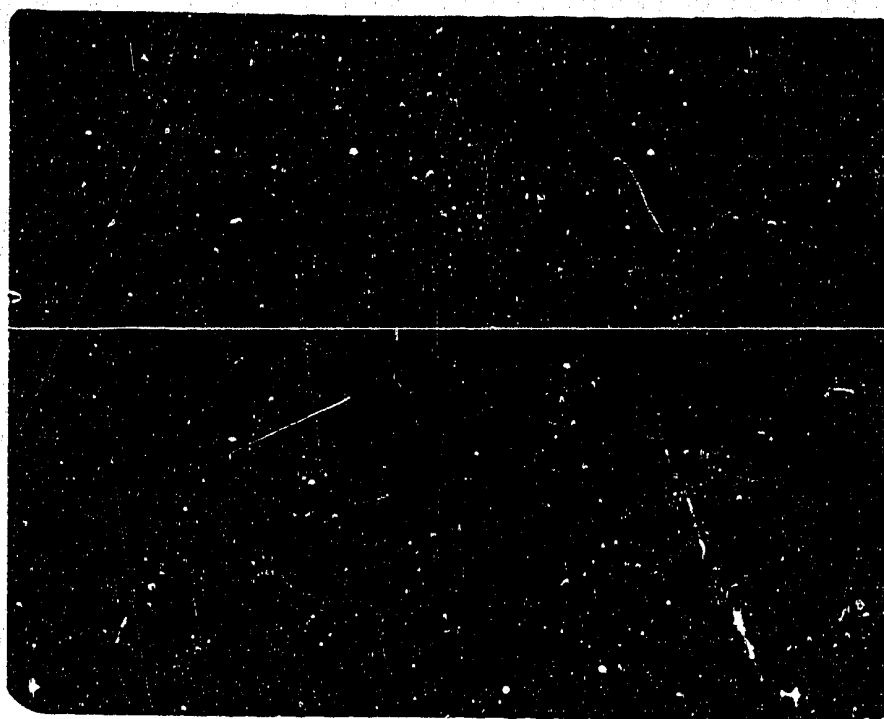
BUILD UP PRESSURE							FLOWING PRESSURE						
Rec. # 2314		Rec. # 3357		P_w	t	$T+t$	Rec. # 2314		Rec. # 3357		P_f	t	Q
Initial	Final	Initial	Final				Initial	Final	Initial	Final			
660	639	660	641		10		198	175	203		10		
929	816	930	817		20		206		214		20		
1084	928	1084	930		30		210		219		30		
1181	1019	1179	1020		40		215		222		40		
1250	1089	1249	1089		50		222		229		50		
1301	1153	1301	1153		60		230		238		60		
	1206		1206		70		239		245		70		
	1242		1242		80		246		252		80		
	1281		1282		90		252		261		90		

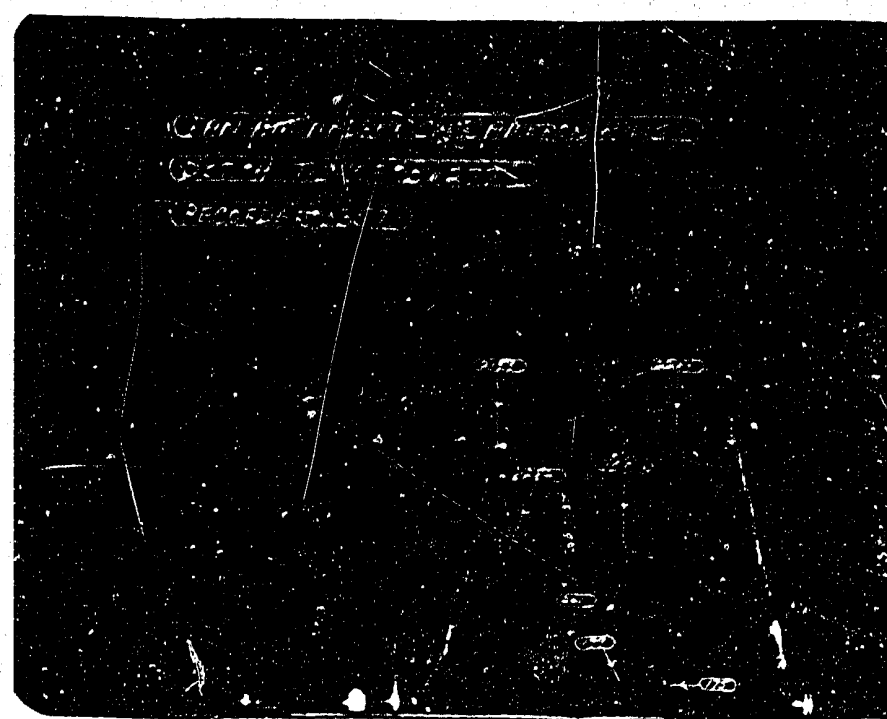
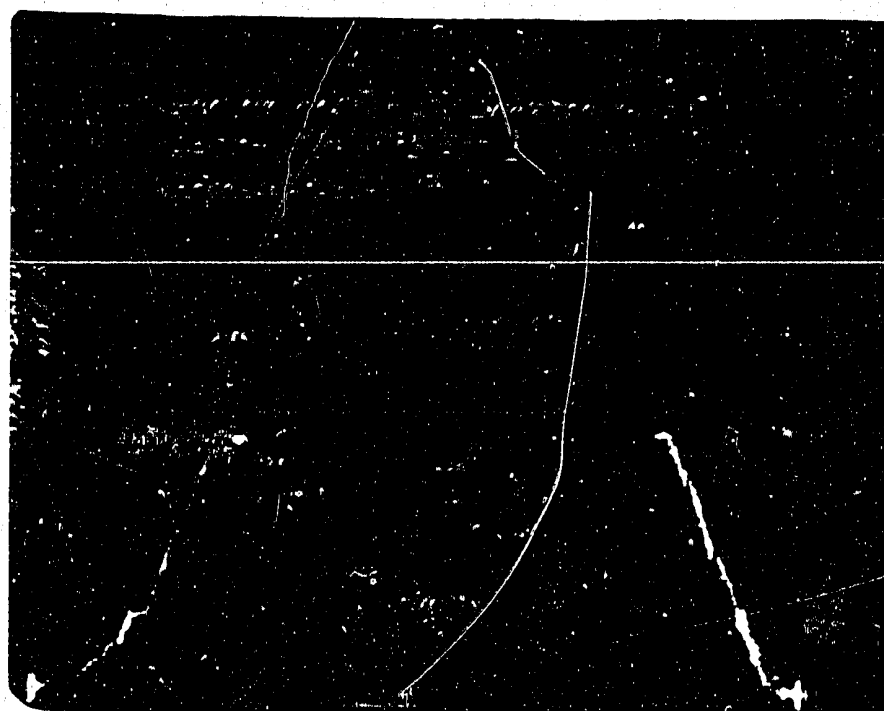
m = slope of straight line portion of build up curve

$k h =$	$\frac{162.6 Q \mu B}{m_o}$	or	$\frac{1637 Q_g \mu Z \text{ temp}}{m_g}$	$\frac{\text{psi}}{\text{cycle}}$ md ft
$E.D.R. =$	$\frac{P_o - P_f}{m_o (\log T + 1.75)}$	or	$\frac{P_o^2 - P_f^2}{m_g (\log T + 3.85)}$	no dimension
$\frac{k}{h} =$				md
$P.I. =$	$\frac{Q_o}{P_o - P_f}$	or	$\frac{Q_g}{P_o^2 - P_f^2}$	bbls/day/psi mcf/day/psi

ASSUMPTIONS AND LIMITATIONS

Interpretation calculations require necessary assumptions to provide a quick estimation of many of the factors involved. Consequently, the calculations herein should be used as an estimate only, pending more complete analysis and testing. Drill Stem Testers makes no warranty express or implied as to the accuracy of such calculations, evaluations, or opinions, and shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.



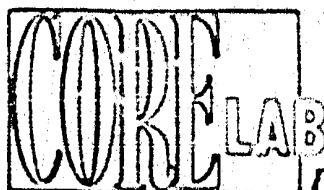


CORE ANALYSIS REPORT
PAN AMERICAN PETROLEUM CORPORATION
PAN AM ANDEX CAMERON C-22
CAMERON HILLS AREA
NORTHWEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering
CALGARY - EDMONTON - REGINA

CORE LABORATORIES - CANADA LTD.



Petroleum Reservoir Engineering

COMPANY PAN AMERICAN
PETROLEUM CORPORATION FIELD CAMERON HILLS FILE CNP-1-9591
WELL PAN AM ANDEX CAMERON C-22 DATE MARCH 26/69
LOCATION 60 11'00.00 117 49'55.00 PROV N.W.T. ELEV. _____

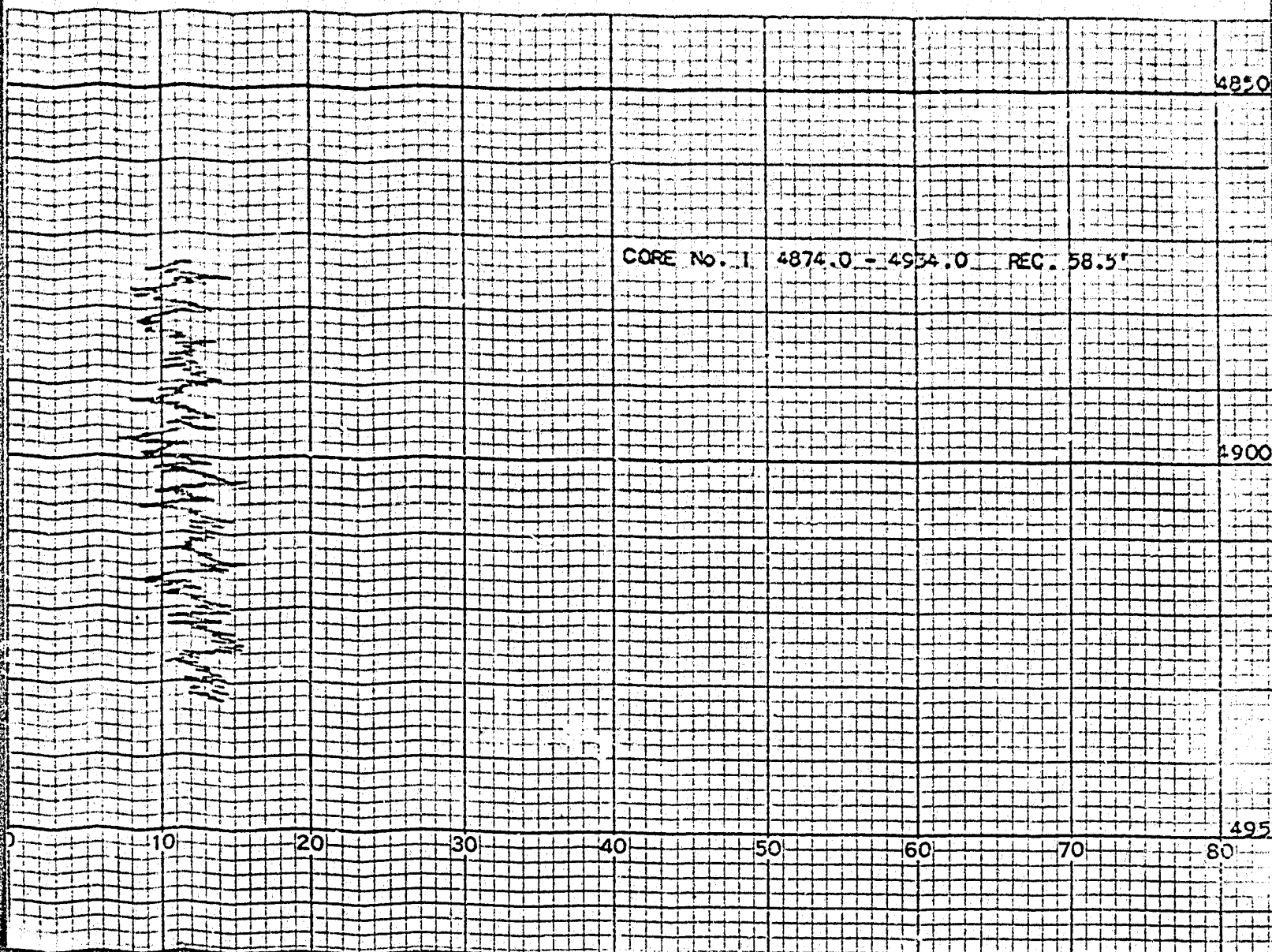
CORE-GAMMA CORRELATION

These correlation curves are based on measurements and standards supplied by the client to whom and for whose accounts and instructions the same are made. The responsibility of accurate correlation rests with the client of Core Laboratories (Canada) Ltd. and is not assumed by Core Laboratories (Canada) Ltd. and its officers and employees, who make no warranty or representation, as to the performance of the service, or the accuracy of the data, or the value of the results or the use of the results in any way.

TC 11 SECS

VERTICAL SCALE: 5" = 100'

SENS 2500 CPM



CORE LABORATORIES - CANADA, LTD.

COMPANY PAN AMERICAN PETROLEUM CORPORATION FORMATION -
WELL PAN AM AIDEX CAMERON C-22 DRILLING FLUID WATER BASE
FIELD CAMERON HILLS AREA, NORTHWEST TERRITORIES ELEVATION -
LOCATION 60 11'00.00 117 29'55.00 ANALYSIS FULL DIAMETER 3 RESIDUALS
ANALYSTS G. S. MY DATE REPORT APRIL 11/69
REMARKS Glazed surface on all samples removed prior to permeability measurements.

PAGE 1 of 2
FILE CIP-1-9591
DATE REPORT APRIL 11/69
ANALYSTS G. S. MY

SP - SAMPLES FOR
1 - CORE SAMPLES
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3 - CORE SAMPLES
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SAMPLE NUMBER	INTERVAL REPRESENTED FEET		PERMEABILITY TO AIR MILLIDARCS			EV	POROSITY %	POROSITY FEET	DENSITY		REGIONAL SAT PORE %		VISUAL EXAMINATION
	DEPTH	THICK	EMAX	EMIN	AVG				BULE	GRAIN	DR	TOTAL WATER	

CLOSED INTERVAL 4874.0' - 4934.0'

CORE No. 1 4874.0' - 4934.0' (Rec. 58.5') (16 BOXES)

-	4874.0-4886.9	12.9	-	-	-	-	-	-	-	-	-	-	Anhydritic
1	4886.9-4887.4	0.5	0.79	0.05	<0.01	0.40	1.9	0.95	2.80	2.85	6.0	27.9	1, HF A
2	4887.4-4888.0	0.6	0.04	<0.01	<0.01	0.02	0.9	0.54	2.83	2.85	3.7	25.3	1, HF A
3	4888.0-4888.8	0.8	0.78	0.73	<0.01	0.62	3.5	2.80	2.73	2.82	15.7	12.9	PPV 1, HF
4	4888.8-4889.4	0.6	0.72	0.61	<0.01	0.43	4.2	2.52	2.71	2.83	24.5	8.9	PPV 1,
5	4889.4-4890.0	0.6	0.20	0.05	<0.01	0.12	3.0	1.80	2.75	2.84	9.1	31.8	PPV 1,
-	4890.0-4891.7	1.7	-	-	-	-	-	-	-	-	-	-	Anhydritic
6	4891.7-4892.4	0.7	0.12	0.05	<0.01	0.08	1.9	1.33	2.77	2.83	11.1	12.0	1,
7	4892.4-4893.1	0.7	0.10	0.05	<0.01	0.07	3.9	2.73	2.73	2.84	21.1	13.4	PPV 1,
8	4893.1-4893.8	0.7	0.08	0.06	<0.01	0.06	3.5	2.45	2.73	2.83	30.0	6.7	PPV 1,
9	4893.8-4894.6	0.8	0.21	0.07	<0.01	0.17	1.0	0.80	2.60	2.83	8.0	27.9	PPV 1,
10	4894.6-4895.6	1.0	0.22	0.03	<0.01	0.22	1.7	1.70	2.79	2.84	6.5	41.8	PPV 1, Sty. A
-	4895.6-4932.5	36.9	-	-	-	-	-	-	-	-	-	-	Anhydritic
-	4932.5-4934.0	1.5	-	-	-	-	-	-	-	-	-	-	Lost Core

CORE LABORATORIES - CANADA, LTD.

Petroleum Reservoir Engineering

PAN AM ANDEX CAMERON C-22

PAGE: 2 of 2

FILE: CNP-1-9591

WELL:

FORMATION:

SUMMARY INTERVAL:

4874.0 - 4934.0

TOTAL FOOTAGE:

60.0

FOOTAGE ANALYZED

7.0

FOOTAGE NOT ANALYZED:

TOTAL: 53.0 DENSE 51.5 LOST 1.5 DRILLED .0 *NABR .0 RUBBLE .0

SUMMARY

OF

ANALYZED CORE:

TOTAL

BY

PERM

RANGES:

LESS THAN 0.10 Md.

0.10

0.49 Md.

0.50

0.99 Md.

1.00

9.99 Md.

GREATER THAN 9.99 Md.

FOOTAGE	NO OF ANALYZED CORE	WEIGHTED AVERAGE POROSITY %	POROSITY FEET	WEIGHTED AVERAGE PERM MD	PERM FEET	WEIGHTED AVERAGE RESID CLS	WEIGHTED AVERAGE TOT WATER
7.0	100.00	2.52	17.62	.31	2.19	13.63	21.55
1.3	18.57	2.30	2.99	.06	.08	17.86	15.56
3.8	54.29	2.20	8.36	.17	.66	10.76	26.57
1.9	27.14	3.30	6.27	.76	1.45	16.45	15.58
.0	.00	.00	.00	.00	.00	.00	.00
.0	.00	.00	.00	.00	.00	.00	.00

*NOT ANALYZED BY REQUEST

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT APRIL 2 1969
LEASE NAME PAN AM ANDERSON S-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

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	5:00	6PR	Down		Pipe white W.O.C
5~	5:30	Trip			Run in Fall top of plug #2 @ 898'
5:30		Log	Down		B.O.P. Put casing Run 5th Plug @ top
	8:00				+ weld on Plate
Casing cut off 3' below Grnd. level - Plate welded on w/ A 5'					
Pipe of pipe above Grnd w/ an Ident. Fire Above pipe					
Rig Released @ 8:00 AM April 2-69 W.A. Langston					

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

[illegible]

SECOND TOUR FROM 9⁰⁰ A.M. TO 1⁰⁰ 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	1:00	Rigging out pumps, and and and & Tear out Rig			
					Boiler Shut Down @ 2:00 pm Apr. 12-68

Kier Air Flew in w/ Aztec took out 4 men & luggage

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	Pet Foley.	

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	
					10 trucks left w/ loads @ 10:00pm Apr. 2-6
					Returned 1820 Gals Diesel Fuel
					For credit

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. H. Thompson
PAN AMERICAN REPRESENTATIVE

APPROVED _____ CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DALL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT APRIL 1 1969

LEASE NAME CAMERON HILLS C-1 ~~WELL~~ WELL NO. C-1 FIELD WINDCAT

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	TRIP OUT			
12:15	12:30	SERVICE RIG CLASH BLIND RAMS.			USED 15 GALS CORE AN
12:30	1:15	PICK UP TESTING TOOLS			15 GALS DEISEN
1:15	3:30	RUN IN W/ TEST NO. 4			IN DRILL PIPE.
3:30	4:00	HEAD UP TESTING TOOLS			
4:00	5:00	WAIT FOR DAYLIGHT			
5:00	8:00	TEST			

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

QUANTIT	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
DST # 4		DST # 4					DST # 4		
		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	
800	830	TEST			
830	900	BREAK DOWN TESTING HEAD			P. Foley
900	1130	TRIP OUT			G. Workman
1130	1200	BREAK DOWN TESTING TOOL			D. Lehman
1200	300	WAIT ON ORDERS			D. Perlitz worked 2 hrs
300	400	LAY DOWN TESTING TOOLS			Overtime - Running Cement Plug #1. W. A. Kumpster

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CASE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>Pet. Taylor</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	
4 ⁰⁰	6 ¹⁵	Run in			Run to Bttm
6 ¹⁵	6 ⁴⁵	Circ			Brt Circ + Clean to Bttm
6 ⁴⁵	7 ³⁰	Cement			Run + Displace Plug #1 - 4500 - 5300'
7 ³⁰	8 ³⁰	Pull out			Pull out to - 1080'
8 ³⁰	9 ⁰⁰	Cement			Run Plug #2 - 1080' - 920'
9 ⁰⁰	12 ⁰⁰	W.O.C			Lay Down Drill pipe.

Ke: Air flew in w/ Aztec w/ Groceries + Forrest Ranger to check Chompa

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
Plug #1	5300' - 4500'	Plug #2	1080' - 920'	130	SKS	oil/well w/ 3% CaCl				
400	SKS	oil/well heat	153 cu ft	15.6	"	Slurry	Volume	18.5	Bbls	mix DISK
422	Cu ft	15.6	"	Slurry	DEVIATION INSTRUMENT	DEPTH	DEGREES OFF		W/ 12.0	Bbls H-2-0
Volume	- 57.0	Bbl	mix	- 5	Bbls	water	Ahead of plug w/ a temperature			
Disp.	w/ 62	Bbls	water	in place	@ 7.30 pm			DRILLER'S SIGNATURE		R. Thompson

APPROVED W. A. Reynolds
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

D.S.T #4 - Straddle Bypass - 4646' - 4615'
w/ Joss Safety JT pump out sub F01/SAFE Head.
Floor Muni F01d

5 min preflow - weak to Fair Air Blow

60 min shut in

90 min Final Flow - Fair to weak Blow Gas to surface 50 min

12" Flow & Flow Line Died completely @ end of flow period

90 min Final shut in

Recovered 30' Carbon Inhibitor

180' Gas cut mud & oil

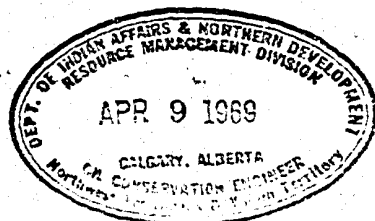
315' Gas cut oil.

90' Gas cut oil flooded salt water

Initial Hydrostatic	2162
Initial Shut in	1272
Initial Flow	150
Final Flow	240
Final Shut in	1227
Final Hydrostatic	2133

DST Results checked + samples Also 1 set Logs. Samples for
Cons Board + Pon Am + Casing Bowl Hauled to Grande
Prairie By W.A. Kuysters Via Leased 4x4 truck

W.A. Kuysters



PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME HARRIS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 31 1969
LEASE NAME CAMERON HILLS WELL NO. C-1 FIELD WINDCAT

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	12:45	MAKE UP TESTING TOOLS			USED 15 GALS CORE BAN
12:45	1:00	RIG SERVICE CLOSE HYDRA			15 GALS DIESEL
1:00	3:00	RUN IN W/ PACKER.			IN DRILL PIPE.
3:00	3:45	MAKE UP TEST HEAD.			
3:45	7:45	TEST			(Dowell Arrived on hose
7:45	8:00	BREAK DOWN TESTING HEAD.			@ 1:30 A.M. Mar. 31-69

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
DST #3.		DST #3						DST #3.	
		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	11 ⁰⁰	TRIP OUT WITH PACKER			
11 ⁰⁰	12 ⁰⁰	MAKE UP D.S.T. #4			
12 ⁰⁰	1 ⁰⁰	TRIP IN WITH PACKER - HOLE TIGHT @ 1300'			
1 ⁰⁰	2 ⁰⁰	TRIP OUT			
2 ⁰⁰	3 ⁰⁰	PICK UP 2 DRILL COLLARS			
3 ⁰⁰	4 ⁰⁰	TRIP IN WITH BIT - Hole Bridged 1200 - 1400'			

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
								834	H.W. Y3A-J 3-14
								SER # 9486 CONDITION	
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		HOLE	
								DRILLER'S SIGNATURE	Bob Foley

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	5.00				TRIP IN. W/BIT
5.00	5.15				RIG SERV. HYDRAIL ✓
5.15	10.00				COR. CONDITION HOLE + MUD.
10.00	12.00				TRIP OUT.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND	TEST
1000	GEL.	8.00	8.9	84					8 3/4	x 3 R. # 9486	3/1
		10.00	9.0	76						To CLEAN OUT.	
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF				
									DRILLER'S SIGNATURE <i>P. Mooney</i>		

APPROVED W. A. Humphreys
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

024

D.S.T. # 3- Keg River. 5250' - 5300' Dual Btm Hole

5 mins preFlow - Very weak Gas Blow

60 mins initial Shut in.

90 mins Too # open. Very small Air Blow Decreasing to Nil - Re Set After 30 mins.

90 min Shut in.

Recovered 90' carbon inhibitor & Drilg mud

Initial Hydrostatic	2444
Initial Shut in.	300
initial Flow	75
Final Flow	75
Final Shut in	300
Final Hydrostatic	2414

W A Krysters

Rig up D.S.T #4. Unable to Get in Hole

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

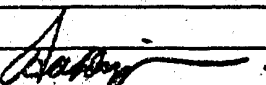
 RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 30 1969

 LEASE NAME C-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

 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	2:00	W.O. ORDERS			
2:00	3:00	IS STD DUMMY TRIP			
3:00	8:00	WAIT ON ORDERS.			

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		2:00 AM	9.0	50						OPEN END 5300 FT.
		6:00	9.0	50						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE 		

 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	4:00	WAIT ON ORDERS			

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	9.0	54						
		2:00	9.0	51						
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE Pat Foley	

 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	10:00				CIR. WAIT ON ORDERS
10:00	11:30				TRIP OUT
11:30	12:00				PICK UP TESTING TOOL.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000 ²	GEL	6.00	9.0	53						
		9.00	9.0	60						
		DEVIATION INSTRUMENT			DEPTH	DEGREES OFF				

 APPROVED Ed A. Kuyper PAN AMERICAN REPRESENTATIVE

 APPROVED Chris Lee CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 29, 1969
 LEASE NAME C-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

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	8 ⁰⁰	LOGGING W/ SCHLUMBERGER.								
Keir Air Flow in From Hay River w/ Aztec - Picked up Geo. and man + logs + Returned to Hay River logs were put on P.W.A. Jet + were to be sent to Calgary T.D. Driller 5300 - T.D. Schlumberger = 5303'										
DAYWORK: HOURS		RATE		HOURS W/D PIPE						
QUANTITY	MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
LOGGING			LOGGING							
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE A. B.	

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	1:00	LOGGING			Logs were Addressed to Lindsey Milne % Pan Am Calgary w/ instructions to Please Hold For Pickup & Phone Mr. Milne upon Arrival OF Logs in Calgary W. A. Kingston
1:00	1:30	Trip out Schlumberger			
1:30	2:00	Load out test tools			
2:00	2:30	Trip in collars			
2:30	4:00	Lay down collars			

DAYWORK: HOURS		RATE		HOURS		RATE		HOURS W/D PIPE		
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

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	5:00				LAY DOWN D. COLLARS
5:00	5:15	RIG SERV.			CLOSE BLIND RAMS.
5:15	7:00				RUN IN OPEN END.
7:00	7:45				PICK UP 23 JTS D. PIPE.
7:45	8:00	GAZ. CIR.			
8:00	12:00	CIA.			WAIT ON ORDERS.

DAYWORK: HOURS		RATE		HOURS		RATE		HOURS W/D PIPE	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1"	WATER	8:00	90	134					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE	
								P. J. [Signature]	

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

OVER

Logs Run By Schlumberger

Dual induction laterolog CS9 - T.D

Sonic Gamma - Caliper CS9 - T.D

Density Log - Caliper 4300 - T.D

Side wall Neutron 4300' - T.D

Porosity Lithology Log 4300 - T.D

W. A. Krystus

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 1 CONTRACTOR'S NAME MOBERS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 28 1967
 LEASE NAME PAN AM ANDERSON CO. 22 60-22 117-41 WELL NO. C-1 FIELD WILDCAT

FIRST TOUR FROM 12:00 AM. TO 8:00 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	2:45	DRILL	5245	5270	W.O.B. 40 DRILLED 55'
2:45	3:00	RIG SERVICE			CLOSE PIPE RAMS R.P.M. 40 7 3/4 HRS
3:00	8:00	DRILL	5270	5300	S.P.M. 60 TOTAL HRS 32 1/2
					P.S.I. 1000 " FT #BIT 10 RR 305
					BIT # 10
					BIT IN 4995
					LINEAR SIZE 5 1/2 X 16

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
300	SODA ASH	2:00	9.0	50	9.0	3/32	8.0	10RR	8 3/4	SCM-J 3/4 JETS
100	BARITUM CARBON.	6:00	9.0	55	8.2	3/32	8.0	SERIAL#		552433
100	WL-2-10									
6500 lbs	GEL.									
26 lbs	BENEX 1" STREAM WATER									

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	1:00	Circ. & WAIT ON LOG TRUCK			
1:00	2:30	Dummy TRIP			15 STANDS Tight Spot on 8+6 STD out
2:30	4:00	Circ.			NO Fill on Bttm
					T.D. in Granite @ 5300'

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
10 SKS	GEL	12:00	9.1	112	5.5	3/32		10RR	8 3/4	SCM-J 3-14 JETS
1#	BENEX	2:00	9+	8.2	5.5	3/32				Ser # 552433
	BARITUM CARBON									
	SODA ASH									
	WL-2-10									

WATER - 1" STREAM 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 SER			✓ HYDRIL
4:15	5:30	Circ wait on log truck			
5:30	6:15	Dummy trip			10 stds. Hole O.K. - NO Fill on Bttm
6:15	8:45	Circ wait on log truck			
8:45	11:45	trip			Runway & pull out to Log
11:45	12:00				RIG UP SKLUMBERGER TO LOG.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
13 SKS	Gel	6:00	9.0	62	5.5	3/32	8			
4#	BENEX	8:00	9.0	92	5.5	3/32	8			

Totco

5276

10

DRILLER'S SIGNATURE

APPROVED

W. A. Kuyper
PAN AMERICAN REPRESENTATIVE

APPROVED

Ernie
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 27 1969
LEASE NAME PAN AM C-1 CAMRON HILLS WELL NO. C-1 FIELD WILD 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	2 ¹⁵	DRILL	5023	5052	WOB 40 DRILLED 85'
2 ¹⁵	2 ³⁰	RIG SERVICE	CLOSE PIPE RAMS		RPM 40 7 3/4 HRS.
2 ³⁰	2 ⁰⁰	DRILL	5052	5108	PSI 1000
					SPM 60
					BIT No. 10 RR
					" IN 4995'
					STROKE 5 1/2 X 16'

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2500 lb	GEL	2:00	9.2	45	11.4	3/32	7.0	10 RR	8 3/4	SCM-J 3-14 JET
100 lb	BENTON	6:00	9.1	45	10.0	3/32	7.5			552433
200 lb	BARUM CARBON	DEVIATION INSTRUMENT			DEPTH	DEGREES OFF		10 HRS	113	FT.
100 lb	WL-2-10									
300 lb	SODA ASH									
15 SK.	SAWDUST									

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	RIG SERV. - HYDRIC			W.O.B. - 40000
9 ¹⁵	4 ⁰⁰	DRILL	5108	5190	R.P.M. - 40
					P.S.I. - 1000
					S.P.M. - 60 LENER - 5 1/2"
					BIT No. - 10 R.R.
					BIT IN @ 4995'
					DRILLED 82' in 7 3/4 hrs.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
3300	GEL	12:00	9.2	49	11.4	3/32	7.0	10 RR	8 3/4	SCM-J JETS 3-14
14	BENTON	2:00	9.1	51	11.4	3/32	7.0			552433
50	WL-2-10	DEVIATION INSTRUMENT			DEPTH	DEGREES OFF				TOTAL Ftg. - 195 TOTAL HRS - 17 1/4
100	SODA-ASH									
200	BARITUM DUMPED TANKS									
1 1/2"	WATER									

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	5 ³⁰	DRILL	5190		DRILL w/40,000 & 40 R.P.M.
5 ³⁰	5 ⁴⁵	RIG SERV.			PIPE RAMS OK.
5 ⁴⁵	10 ⁴⁵	DRILL			DRILL w/40,000 & 40 R.P.M.
10 ⁴⁵	11 ⁴⁵				CIR. SAMPLE FOR GEOLOGIST.
11 ⁴⁵	12 ⁰⁰	DRILL	5245		SPM. 60 LINEAR 5 1/2"
					BIT # 10 RR
					BIT IN @ 4995'
					DRILLED 55" HRS 6 3/4

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
300	SODA ASH	6 ⁰⁰	9.0	44	11.2	3/32	7.0	10 RR	8 3/4	SCM-J JETS 3-14
200	BARITUM	10 ⁰⁰	9.0	58	9.0	3/32	7.2			552433
50	CMC	DEVIATION INSTRUMENT			DEPTH	DEGREES OFF				TOTAL FOOTAGE 250
4800	GEL									TOTAL HRS. 24 1/2
1 1/2"	STRAIN WATER									

APPROVED W. A. Kuyper
PAN AMERICAN REPRESENTATIVE

APPROVED Ernie Price
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 26 1969

LEASE NAME C-1 CAMERON HILLS WELL NO. C-1 FIELD WIND CAT

FIRST TOUR FROM 12 A.M. TO 8 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	2 ⁰⁰	TRIP OUT CLOSE BLIND RAMS			BIT OUT 4995
2 ⁰⁰	3 ¹⁵	PICK UP TESTING TOOLS			" NO 10 RR
3 ⁰⁰	3 ³⁰	R/L SERVICE			BIT IN 4934
3 ³⁰	6 ⁰⁰	RUN IN W/ TESTING TOOLS			BIT CONDITION 111
6 ⁰⁰	6 ⁴⁵	HEAD UP TO TEST			
6 ⁴⁵	8 ⁰⁰	TEST			

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		DST # 2					10 RR	8 ³ / ₄	# 552433
DST # 2		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
							DRILLER'S SIGNATURE	[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	
8 ⁰⁰	11 ⁴⁵	D.S.T.			D.S.T #2
11 ⁴⁵	4 ⁰⁰	Trip			Long Down Testing Head etc + Hoist
					D.S.T. #2 - ^{Keg River} Sulphur 4995-4835'
					5 min pre Flow - weak Air Blow - Initial Shut in 60 mins
					Tool open - 120 mins weak Air Blow testing + shut out Test
					Tool shut in 120 mins Recovered - 1230' Solly Sulphurous Gas Put + Water + 120' G's cut dry mud

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	UNIT NO.	SIZE	KIND
Initial Hydrostatic	2310	Salt	71,000	ppm @ middle	OF	Sample			
Initial Shut in	1539	Salt	132,000	ppm @ Bottom	OF	Sample			
Initial Flow	300	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
Final Flow	750								
Final Shut in	1539								
Final Hydrostatic	2296								
THIRD TOUR FROM 4 ⁰⁰ P. M. TO 12 ⁰⁰ P. M.									

DRILLER'S SIGNATURE *P. Foley*

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	5.45				BAR. DOWN + LAY DOWN PACKER CLEAN UP FLOOR.					
5.45	6.00	RIG SERV			BLIND RAMS. OK. WT. 40.000					
6.00	6.45				LAY DOWN CORE BAR. RRM. 40					
6.45	9.15	TRIP IN			w/ BIT # 10 BR. PSI. 950					
9.15	9.45				BAR. CIR. CLEAN 10' TO BOTTOM. SPA. 60					
9.45	12.00	DRILL	4995	5023	DRILL w/ 40.000 WT. 40 RRM. BIT IN 4995					
Kair Air Flew from Hay River w/ Cass no 185 w/ Groceries & Pig Supply										
W/O Trip										
DAYWORK: HOURS		RATE		HOURS RATE		HOURS W/D PIPE				
QUANTITY	MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
			11.00					10 BR 3 3/4	SCM-J	" 552433
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		BIT FOOTAGE 28 FT. HAS 2 1/4	
									TOTAL FOOTAGE 28 FT HAS 2 1/4	
									DRILLER'S SIGNATURE P. M...	

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

[illegible]

APPROVED Ed A. Murphy
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABERS DRUG LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 25 19 69
LEASE NAME PAN AM C-1 CAMRON HILLS WELL NO. C-1 FIELD 1 WILD CAT

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	2 ⁰⁰	CORE	4925	4934	WT 12M RIM 85 SPM 49
2 ⁰⁰	4 ¹⁵	TRIP OUT			PS 700 LINER 5 1/2 X 16.
4 ¹⁵	5 ⁰⁰	RECOVER CORE			COMP #1 (4974 - 4934) WT 60' FULL REC. DR.
5 ⁰⁰	5 ¹⁵	RIG SERVICE	CLOSE	BLIND RAMS.	BIT #11 IN 4874
5 ¹⁵	5 ³⁰	SERVICE CORE	BARREL		DOT 4974
5 ³⁰	8 ⁰⁰	WATER IN	ADDS REC & B of Core.		Bit 8 1/16 American
6 ⁰⁰	8 ⁰⁰	W. O. O.			CORE STOPPED Boiler house on Rec. Cold set.

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

[illegible]

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	10 ³⁰	WAIT ON ORDERS			W.O.B. - 410 ⁰⁰
10 ³⁰	100	TRIP IN			R.P.M. - 40
1 ⁰⁰	3 ¹⁵	REAM 60' TIGHT HOLE			P.S.I. - 950 LINDER - 5 1/2"
3 ¹⁵	4 ⁰⁰	DRILL 4934 4942			S.P.M. - 60
					B2T IN @ 4934.

Core #1 + D.S.T. Samples sent to Grande Prairie Via Air EXCG
11/10/1968

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

[illegible]

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	RIG SET			PIPE RAM SWIVEL W.L.B. 40,000
4:15	8:00	DRILL	4940	4980	DRILL W/40,000 40 RPM. RPM. 40
8:00	8:45				CIR. SAMPLE FOR GEOLOGIST. SPM 60
8:45	10:15	DRILL	4980	4995	DRILL W/40,000 40 RPM. PSI 950
10:15	11:45	trip CIR. cond. H/L			Good Hole BIT IN @ 4934
11:45	12:00	trip			PULL OUT FOR D.S.T. DAILED 55 FT. IN 5 1/4 HRS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.W.	BIT NO.	SIZE	KIND
4800	GEL	6.00	9.0	52	12.0	3/2	9.5	1090	8 3/4	SCM-J 3-14 *552433
18 #	BANEX	10.00	9.0	60	12.0	3/2	9.5			
200 #	SODA ASH	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL FOOTAGE 61		
100 #	BARIUM							TOTAL WBS. 6		
50 #	W-210							DRILLER'S SIGNATURE P. J. [Signature]		

APPROVED W. A. Karpis
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

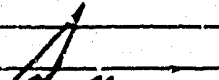
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 24 1969
 LEASE NAME PAN AM. C-1 CAMRON HILLS WELL NO. C-1 FIELD WILD CAT

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	1 ⁴⁵	DRILL	4445	4804	Bit No 10 LIVER 5 1/8
1 ⁴⁵	2 ⁴⁵	Circ. SAMPLE			R.P.M. 40
2 ⁴⁵	3 ⁰⁰	Rig SERVICE			WT 40
3 ⁰⁰	4 ¹⁵	DRILL	4864	4974	SPM 60
4 ¹⁵	5 ¹⁵	Circ. SAMPLE			PSI 975
5 ¹⁵	5 ³⁰	DRILL			BIT IN 4825
5 ³⁰	8 ⁰⁰	T.B.O. Out			" OUT 4874

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
100	SODA ASH#	2:00	8.9	55	1/3	2/32	7.0	10	8 1/4	Red SCMS 3/4
50	BARTUM CARBON	6:00	8.0	55						# 5524 33
1600	GEL	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
6 1/2	BENEX	4890		4880		7/8°				
100	WL-210	TOTAL DROPPED						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 ⁰⁰	MAKE UP CORE BARREL			W.O.B. - 18000
9 ⁰⁰	11 ⁰⁰	TAP IN			R.P.M. - 55
11 ⁰⁰	1 ⁰⁰	BREAK CIRC. & CLEAN TO BOTTOM			P.S.I. - 700 LINES - 5 1/8
1 ⁰⁰	4 ⁰⁰	CUT CORE NO. 1			S.P.M. - 50
			4874	4883	BIT # 11
					BIT IN @ 4874

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200 th	GEL	1:00	9.1	45 th				11	8 1/4	Ø # 7329C CON.
1 st	BENEX	2:00	9.1	45 th						
1/2 nd	WATER	DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE Pat Foley.	

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	8 ⁴⁵		4883	4910	CUT CORE #1 W.O.B. 18000
8 ⁴⁵	9 ⁰⁰	RIG SER			R.P.M. 85
9 ⁰⁰	12 ⁰⁰		4910	4925	CUT CORE #1 P.S.I. 700 LINES 5 1/8
					SPM 49
					BIT # 11
					BIT IN @ 4874
					CUT 42 FT. 7 1/4 HRS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H	BIT NO.	SIZE	KIND
300 [#]	SODA ASH	6.00	9.0	48	16.0	3/2	7.5	11	8 3/4	◇ # 7329-C CON
100 [#]	BAR. CARB.	10.00	9.0		15.2	3/2	7.5			
	WL-210	DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		TOTAL FOOTAGE CUT 51' 10 3/4 HRS.	
	GEL									
1/2	WATER								DRILLER'S SIGNATURE <i>R. Henderson</i>	

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

Please come in with supplies today

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRUG. LTD. 24 HOUR PERIOD MAR 23 19 69
ENDING AT MIDNIGHT
LEASE NAME PRC A-1 CAMRON HILLS WELL NO. C-1 FIELD WIND CAT

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	12:45	DRILLING			W.D.B 40 LINER SIZE
12:45	1:00	RIG SERVICE	4735	4790	R.P.M. 56 5 1/2 X 16.
1:00		DRILLING			P.S.I. 850
					S.P.M 60
					BIT # 9
					BIT IN 4731

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

QUANTITY		MUD MATERIAL ADDED		TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
400 ^{LB}	BA CO ₃	2:00	8.9	110	12.4	2.5 2	8.0	9	8 3/4	READ	SMG-J 3-14	
800'	SODA ASH	6:00	8.9	65	12.4	2.5 2	8.0			SS0578		
				DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
1/2" STREAM WATER												
DUMPED Suction TANK										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	
8 ⁰⁰	10 ⁴⁵	Drill	4790	4908	W.O.B. - 40
10 ⁴⁵	11 ⁰⁰	Rig serv. - pipe runs			R.P.M. - 55
11 ⁰⁰	1 ¹⁵	Drill	4908	4925	P.S.I. - 850 Lincr - 5 1/2
1 ¹⁵	1 ³⁰	Drop survey			S.P.M. - 60
1 ³⁰	4 ⁰⁰	Trip out			Bit = 9
					Bit in - 4731 Bit out - 4925
					Condit. 101 - T-2 B-2 G-1

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

HOURS W/D PIPE										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
50"	NL TWO - TEN	10.00	9.0	62	12.4	3/32	10.0	9	8 3/4	Reed SMG-J 3.14
1000"	CEL 4" GEN-EX	TRIP								" 550525
200"	500A ASH 100" BARIUM	DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		DRILLER'S SIGNATURE P. J. L.	
	DAMPED SHAKER									
	TANK									

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	TAIPOUT			CHECK MOTOR SHUT OFFS B.O.P. ^s + CROWN SAVER.
4.15	4.45	RICEREN.			LOOK FOR SURVEY BARREL - STUCK IN
4.45	6.30	RUN IN w/ 2 COLLARS.			D.C. LAY DOWN D.C. BIT ² 10
6.30	8.15	RUN IN			+ PICK UP DRILL COLLOR R.P.M 30
8.15	8.45				BRK. CIR. CLEAN 10' TO BOTTOM. SPM. 60
8.45	12.00	DRILL	4425	4845	DRILL w/ 10-40,000 25-30 R.P.M. PSI 900
					BIT IN 4825

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

QUANTITY		MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	RH	BIT NO.	SIZE	KIND
42"		WATER							10	9 3/4	SCM-J 3-14 SEP. 552433
100#		SODA ASH									
50#		BARIUM									
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		PUMP LINERS 5 1/2 x 16		
			To Tco		4825		1/2		DILLED 20 FT. 3 1/4 HAS.		
									DRILLER'S SIGNATURE C. W. [Signature]		

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PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DALL LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 22 1969
LEASE NAME PAN AM C-1 CAMARON HILLS WELL NO. C-1 FIELD WILD CAT.

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	1.30	TRIP OUT		4731	
1.30	3.30				PICK UP & MAKE UP PACHER.
3.30	6.00	TRIP IN			STRAP PIPE IN
6.00	8.00				HEAD UP TESTING HEAD. TESTING D.S.T. #1
					Added inhibitor to protect pipe
					15 gal. BIT CON. 2-1-1

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
5 GAL.	CORBAN						8	8 3/4	SEM I 3/14
									RB488487
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
							DRILLER'S SIGNATURE	P. Nguyen	

SECOND TOUR FROM 9 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	13 ⁰⁰	ST #1			Run D.S. 7" 1 4611 - 4731 Bottomhole Dial.
13 ⁰⁰	2 ¹⁵	Pump Tools Loose			ISL 60 Flow 180 FSI 120
2 ¹⁵	4 ⁰⁰	Pump OUT OF HOSE.			G.P. Air G. 7.5 12 mi 2' 3' Red orange flames T.S.T.M.
					Run 180' fresh cut cotton inhibit water
					770' light gravity BLACK oil.
					1440' Salt water. (Cont)

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
25 #1		25 #1						25 #1	
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE 	

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	
400	630	Trip out			W.D.B. - 20
630	830	Break + log down			test tools R.P.M. - 50
830	400	Trip in			IH 2133 FH. 2102 R.S.I. - 1000 liner 5 1/2"
400	1500	Drill	4331	4735	IS 71465 FSJ 1420 S.P.M - 60
					IF 300 FF 1109 Bit " 9
					BHT - Bupe Thermobar Bit in @ 4731
					Caught 19% sample - sample 2" + 20 fluid sample 2 1/2"

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

DAYWORK: HOURLY										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	2.5	BIT NO.	SIZE	KIND
		2:00	8.9	120	12.4	2.5	2.0	9	8 3/4	REFO SM6. 3-11
		6:00	8.9	120	12.4	2.5	2.0			" 550578
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
		DRILLER'S SIGNATURE Pat Kelly.								

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

 RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 21 1969

 LEASE NAME PAN AM C-1 CHADRON HILLS WELL NO. C-1 FIELD WILD CAT

 FIRST TOUR FROM 12:00 P. 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	1:00	DALL	4606		DRILL w/ 40,000 WT. WT. ON BIT 40,000
1:00	1:15	RIL SER			CLOSE HYDRA A.P.M. 40
1:15	2:15	DALL		4634	P.S.I. 950
2:15	2:00				CIR. SAMPLE FOR GEO. S.P.M. 60
3:00		DALL	4634	4705	BIT # 8 LINER 5 1/2 x 16
					BIT IN 4457 BIT OUT
					CON. P. G.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
100	SODA ASH	2:00	8.8	49			8	8 3/4	REED SEM-J 3/4
		6:00	8.8	42					*RB488487
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>P. Hays</u>				

 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	8:45	DRILL	4705		WT 40M LINER 5 1/2 x 16
8:45	9:00	RIL SER. CIR. RIL			R.P.M. 40
9:00	10:15	DRILL		4731	P.S.I. 950
10:15	11:00	CIR. SAMPLE FOR GEO			S.P.M. 60
11:00	4:00	CIR. TO COND. HOLE (MUD)			BIT # 8
					BIT IN 4457 OUT RUNNING
					CONDITIONAL RUN

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
800	SODA ASH	1:00	8.8	40			8	8 3/4	REED SEM-J 3/4
4200	CEL	12:30	8.8	42	15.0	2/32			RB488487
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>P. Hays</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	
4:00	8:30	Circ. to condition hole & mud			WAB -
8:30	9:45	Runny trip is stands			R.P.M. - 40
9:45	10:45	Circ. to condition hole			P.S.I. - 950 LINER - 5 1/2
10:45	12:00	Trip out for D.S.T. = 1			S.P.M. - 60
					Bit = 8
					Bit in @ 4457 Out @ 4731

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
100	CEL	6:00	8.9	71			8	8 3/4	REED SEM-J 3-14
400	SODA ASH	10:00	8.9	76					*RB488487
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					DRILLER'S SIGNATURE <u>P. Hays</u>				

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILG. LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 20 1969
LEASE NAME PAN AM C-1 CAMRON HILLS WELL NO. C-1 FIELD WILD CAT

FIRST TOUR FROM 12:00 P.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	1:00	CIR.			CONDITION MUD.
1:00	4:00	TRIP			
4:00	4:15	RIG SERV			
4:15	4:30				CHANGEXBIT CLOSE BLIND RAMS.
4:30	4:45				RUN IN COLLARS LAY DOWN & WASHED
					D.C. PICKED UP 2 D.C.
	8:00				RUN IN.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
200 ²	KWIK SEAL	12 ⁰⁰	9.0	40			7	8 3/4	13A #4486 OUT 3-1-1
800 ²	GEL						8	8 3/4	SCMTS RB488487
2 ²	BENEX	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL FOOTAGE 8472 BIT	
								TOTAL HAS. 20 1/4 #7	
								DRILLER'S SIGNATURE P. Hegarty	

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	9:30	TRIP IN BEAM BRIDGE AT 3500'			WT. on BIT 40M BIT IN 4457
9:30	9:45	RIG SERVICE CLOSE PIPE RAMS			R.P.M. 40 LINERS 5 1/2
9:45	10:00	CLEAN UP PUMP			P.S.I. 950
10:00	4:00	DRILL 4557 4533 78'			S.P.M. 60
BIT = 8 8 3/4" #RB488487 Jets - 3-14					
- 60' mile from High-Rosemont area					
Keir-Air Transport - hotshot slab shaker bearing					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
4500	GEL	10 AM	9.1	35	12.1	2/32	8	8 3/4 (Red)	SCM-3
18	BENEX	2	8.7	35					
Run WATER		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
E REPAIR FLUID									
FROM SUMP						DRILLER'S SIGNATURE <u>P. Hegarty</u>			

THIRD TOUR FROM 4:00 P.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	
4:00	6:00		4533	4559	WT. on Bit - 40
6:00	6:15	Drill			R.P.M. - 40
6:15	6:30	Rig service - hydril			P.S.I. - 950
6:30	6:45	Drill	4559	4563	S.P.M. - 60 Liners - 5 1/2"
6:45	7:30	Circ. sample for geo.			Bit = 8 5 1/4" #RB488487 Jets - 3-14
7:30	8:20	Drill	4563	4579	Bit in - 4457
8:20	9:20	Circ. sample for geo.			Condition - run
9:20	9:30	Drill	4579	4605	

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

DAYWORK: HOURS									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1700 ⁺	GEL	6:00	8.8	37			8	8 3/4	Red SCM-3
7 ⁺	BEN-EX	10:00	8.8	40					
1"	WATER	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE Pat Foley		

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

Flapd rams in with Graseris

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 19 1969

LEASE NAME PAN RM C-1 CAMRON HILLS WELL NO. C-1 FIELD WILD CAT.

FIRST TOUR FROM 12.00 P. 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 SERV.			HYDRIL. ✓ SPM. 6
12:15	8:00	DRILL	3610	3650	DRILL w/ 30,000 60 R.P.M. PSI. 1350
			3650	3906	DRILL w/ 40,000 WT. 85 R.P.M. RPM 85
					PUMP 5 1/2 x 16
					DRILLED
					HRS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1 1/2	WATER	2.00	9.2	38				7	8 3/4	x3A # 9486
40 SKS	GEL	6.00	9.3	35				TOTAL FOOTAGE 296		
8" 1/2	BENEX	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL HAS 7 3/4		
								DRILLER'S SIGNATURE P. Mearns		

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	
800	815	DRILL	3898	3906	7 1/2 HRS 304 FT.
815	830	RIG SERVICE CLOSE			P.P.E RAMS OK.
830	845	SURVEY @	3262		
845	900	DRILL	3906	4210	RPM 88 WT 70 PSI 1400 SPM 60

Sokil Truck # 109-25 Gals Diesel Fuel - ~~Wheat~~

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
2 100	GEL #	10:00 AM	9.8	37					
		12:00 P.M.	9.6	43	12.0	2/32	7	8 3/4	MW X 3A 3/11
2 lbs	BEN-EX #								# 9486
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
		TORCO	3860	1/8°					
	SUMP WT. 8.6. Vis 30	WIRE LINE					DRILLER'S SIGNATURE		

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	
400	500	Drill	4210	4250	W.O.B. 40000 R.P.M. 95
500		Survey			Drilled 247' 5 1/4 hr
	530	Rig service - by drill			
580	1005	Drill	4250	4457	W.O.B. - 40000 R.P.M. - 85
1040	1130	Circ. sample for geologist			Total H. - 847'
1130	1200	Circ. & mix lost circ. material			" hrs. - 20 1/2

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
6000	Gel	6:00	8.9	33			7	8 3/4	H.W. X3A Ser # 9496
24"	Remex	10:00	8.9	34					Jets - 3-4
6000	Rwik seal	DEVIATION INSTRUMENT				DEPTH	DEGREES OFF		Pump - 5 1/2" x 16"
2"	WATER	Total co				4250	3/8		P.S.I 1350
3000	3 mud lost						DRILLER'S SIGNATURE		SPM - 60

APPROVED _____
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DALL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 15 1969
LEASE NAME PAV AM C-1 CAMRON HILLS WELL NO. C-1 FIELD WILD CAT.

FIRST TOUR FROM 12⁰⁰ P. M. TO 3⁰⁰ 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	1.15	DAILL	3377		DAILL w/ 46000 WT 90 RPM. PSI. 12.00
1.15	1.30	RIG SER			CHECK PIPE RAMS SPM. 60
1.30	9.00	DAILL		3533	DAILL w/ 40,000 WT 90 RPM.
					DAILLED 156'
					HRS. 7 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
1"	WATER	2.00	9.3	37			6	8 3/4	STIAC #399911
2800	GEL	6.00	9.2	37			TOTAL FOOTAGE 592		
14.2	BENEX	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL HRS. 34 1/4	
							PUMP 5 1/2" X 16		
							DRILLER'S SIGNATURE J. Morgan		

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	RIG SERVICE CLOSE			HYDRIC 4 1/2 HRS 77 FT.
8 ¹⁵	8 ³⁰	SURVEY @ 3500'			
8 ³⁰	12 ¹⁵	DRILL RPM 90 WT 40 SPN 60 I/P 1200			
12 ¹⁵	1 ⁰⁰	WORK ON No 2 MOTOR CLUTCH			
1 ⁰⁰	1 ⁴⁵	DRILL RPM 58 WT 40 SPN 38 I/P 600			
1 ⁴⁵	4 ⁰⁰	CIRC & CONDITION MUD WORK ON MOTOR CLUTCH.			
			3533	3610	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
500	Gel	10 ⁰⁰	9.3	36			6	8 ³ / ₄	REE) STIA 6.5
12 ¹⁸	Bon-ex	2 ⁰⁰	9.2	35			3/11	669 FT	38 ³ / ₄ HRS.
1 1/2"	Stream Water	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
		TOTAL		3500		1/8°			
		WIRE LINE						DRILLER'S SIGNATURE	

THIRD TOUR FROM _____ M. TO _____ M.

[illegible]

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

Hot shot truck come in from Hay River - (Robertson Rantala)
He brought some Groceries + Rig Supplies + turbo for engine
Had to fly a few clutch from High Level w/
Liberty Air ways As we couldn't Drill without it

Wally

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME INABORS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 17 19 69

LEASE NAME PRNAM C-1 CARMON HILLS WELL NO. C-1 FIELD

FIRST TOUR FROM 12.00 P. 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	2 ⁰⁰	DRILL	3006		DRILL W/ 40.000 WT. 55 RPM.
2 ⁰⁰	2 ¹⁵	RIGSER			CHECK HYDRIL O.K.
2 ¹⁵	8 ⁰⁰	DRILL	3006		DRILL W/ 40.000 WT. 55 RPM. RPM 65
					PSI 1400
					SPM. 60
					WT. 40.
					100 F.T. 7 3/4 HRS

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

DAYWORK LOG										KIND JGS 3/11	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE		
	WATER	2:00	9.2	45				6	8 3/4	REED STAG # 379911	
2 ⁴	BEI VEX	6:00	9.2	40				TOTAL FT.		165 FT 13 HAS	
1000	GEL.	DEVIATION INSTRUMENT			DEPTH		DEGREES OFF				
							DRILLER'S SIGNATURE		P. Mooney		

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	DRILL WT 40 RPM 85			60SPM PSI 1200
8 ¹⁵	8 ³⁰	WORK ON FROZEN AIR CONTROLS			DRILLED 127 FT
8 ³⁰	8 ⁴⁵	RIG SERVICE CLOSE HYDRA REMOTE			7 HRS ON BIT
8 ⁴⁵	9 ³⁰	DRILL WT 40 RPM 85			
9 ³⁰	10 ⁰⁰	REPAIR AIR LINE TO NO. MOTOR CATCH			
10 ⁰⁰	4 ⁰⁰	DRILL WT 40 RPM 85			60SPM PSI 1200
					Fuel truck came from Highway to house 10 hr

Fuel truck come from Highway to house 10hrs

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1" STREAM WATER		8 AM	93	35				6	8 7/8	Reed STAG J 3/16
4 lbs BANSEY		10 AM	93	35						# 379911
		12 noon	93	34						
		2 PM	93	23						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL HRS	20	TOTAL FT 292
								DRILLER'S SIGNATURE		

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	5 ⁰⁰	Drill	3233	3251	W.O.B - 40 ⁰⁰⁰ R.P.M. - 90
5 ⁰⁰		Run wire			Ft. - 144
	5 ³⁰	Rig seen			Hrs. - 6 1/2
5 ³⁰	12 ⁰⁰	Drill	3251	3377	W.O.B. - 40 ⁰⁰⁰ R.P.M. - 90
					Kerr Air 185 Flow in w/Groceries + supplies

KEIR AIR 185 FLEW IN w/ Groceries & supplies
up to Rangeland

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	LAKE		DIT NO.	SIZE	KIND
DUMPED #2 SUCTION		6:00	9.5	30				6	8 3/4	REED STRING Jets - 3/16
DUMPED SHAKER		10:00	9.3	34				F2-436	Hrs - 26 1/2	Sec - 399911
4500	GEL	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		Pump - 5 1/2" x 16" S.P.M. - 60		
20#	BEN-EX	Totco		3251		1/4		P.S.T. - 1200		
1 1/2"	WATER							DRILLER'S SIGNATURE Pat Foley		

APPROVED W. H. Thompson
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILL LTD 24 HOUR PERIOD ENDING AT MIDNIGHT MAR. 16 19 69
LEASE NAME PAN AM C-1 CAMRON HILLS WELL NO. C-1 FIELD

FIRST TOUR FROM 12:00 P.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	12:45	DRILL	2725	2752	DRILL W/ 40,000 WT. 55 RPM PSI 1400
12:45	1:00	RIG SER.			CHECK PIPE RAMS. O.K. RPM 55
1:00	3:45	DRILL	2752	2828	SPM. 60
3:45	4:15				WORK ON D-500 PUMP. DRILLED 7 1/4 HRS
4:15	8:00	DRILL	2828	2872	DRILL W/ 40000 WT 55 RPM. 147 FT.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2300	GEL	2 AM.	9.2	32				5	8 3/4	XIG-5 3/1 1/10
12	BENEX	6 AM.	9.1	31						TOTAL HRS. 34 1/4
										TOTAL FEET. 874.
										DRILLER'S SIGNATURE <i>P. Haggerty</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	
8:00	8:30	DRILL	2872	2878	RPM 55 WT 40 SPM 60 PSI 1400 330 TO 400 SLIP & CUT
8:30	8:45	RIG SERVICE CLOSE HYDRA O.K.			LINE.
8:45	12:30	DRILL	2878	2941	RAM 95 WT 40 SPM 60 PSI 1400 BIT #5 DRILLED 943 FT
12:30	12:45	DROP SURVEY			38 1/2 HRS CONDITION 321
12:45	2:00	TRIP OUT STRAP PIPE			
2:00	3:00	RECOVER SURVEY			DRILLED 69' IN 4 1/4
3:00	3:30	RUN COLLARS IN			(S.L.M. No Change)

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
3000	GEL.	10:00	9.0	32				5	8 3/4 X 1-6 J	3/1 1/10 # 9921
1248	BENEX	12:00	9.1	35						
	WATER 1 1/2" STREAM									
	DUMPED TANKS	2940			2940		3/4"			
										DRILLER'S SIGNATURE <i>Alery</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	
4:00	4:45	Slip & cut	60'		line
4:45	5:00	Rig serv			
5:00	5:15	Tripp in			
5:15	5:45	Run bridges @ 1033-1100			Drilled 65 ft.
5:45	6:00	Finish tripp in			5 1/4 hrs.
6:00	6:45	Break core & clean 5' fill			
6:45	10:00	Drill	2941	3006	W.O.B. - 40000 R.P.M. - 60

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8:00	9.2	42				6	8 3/4	Reel STING Ser 379911
		10:00	9.2	41						Total FL. - 65 Total hrs. 5 1/4
										Pump #2 - 5 1/2 x 1 1/2 P.S.I. - 250
										S.P.M. - 56
										DRILLER'S SIGNATURE <i>Pat Taylor</i>

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

Rollies Hot shot truck from ^{High level} ~~Edmonton~~ hauled A
load OF Freight - Electric & Gas welder etc From
High level to Rig - For Nobors .

Robinson Geophysical Rental Services - Came From Hog
River to 45 miles in From Highway w/ Dryer & Rig
Supplies For Nobors

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 15 1969
LEASE NAME ANDRE C-1 CAMERON HILLS WELL NO. C-1 FIELD WILCOAT

FIRST TOUR FROM 12⁰⁰ A.M. TO 9⁰⁰ 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 serv. + check			pipe rams
12 ¹⁵	3 ⁴⁵	Drill		2214	W.D.B. - 40000 R.P.M. - 90
3 ⁴⁵	4 ¹⁵	Replace			4" cameron valve on mud line Footage - 120
4 ¹⁵	6 ¹⁵	Drill	2214	2253	W.D.B. - 40000 R.P.M. - 90 Hours - 6 3/4
6 ¹⁵	6 ¹⁵	Survey			Dumped shaker tank
6 ⁴⁵	8 ⁰⁰	Drill	2253	2291	W.D.B. - 40000 R.P.M. - 90 + No 112 compactant.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	DUMP SHAKERTANK	2:00	9.1	32				5	9 3/4	X16
	DUMPED 2 SETTLING TANKS	6:00	9.2	37						Total Footage - 263 Total hrs - 12 1/4
					DEVIATION INSTRUMENT	DEPTH	DEGREES OFF			pump - 5 1/2" x 16" P.S.T. - 1400
					Totco	2253	3/4			S.P.M. - 60
								DRILLER'S SIGNATURE		Pat Foley

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 SERVO			HYDRILL ✓
8 ¹⁵	11 ³⁰	DRILL	2281	2350	DRILL w/ 40,000 WT. 90. R.P.M.
11 ³⁰	11 ⁴⁵	REPAIR			ROTARY DRIVE CHAIN.
11 ⁴⁵	4 ⁰⁰	DRILL	2350	2450	DRILL w/ 40,000 WT. 90. R.P.M. Footage 167 HRS. 7 1/2

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	10:00	9.1	34				5	9 3/4	X16J
10 "	BEN	2:00	9.1	33						
1 1/2 "	WATER				DEVIATION INSTRUMENT	DEPTH	DEGREES OFF			TOTAL Footage 432
	DUMP TANKS									HRS. 19 3/4
								DRILLER'S SIGNATURE		P. Hughes

THIRD TOUR FROM 4 P.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	
4 ⁰⁰	4 ¹⁵	DRILL	2450	2470	WT 40 RPM 55 SEM 60
4 ¹⁵	4 ³⁰	RIG SERVICE			CLOSE PIPE RAMS OK. DRILLED 7 1/4 HRS
4 ³⁰	6 ⁰⁰	DRILL	2450	2533	275 FT
6 ⁰⁰	6 ¹⁵	SURVEY	2500		SINGLE OFF BIT
6 ¹⁵	10 ¹⁵	DRILL	2533	2690	
10 ¹⁵	10 ³⁰	SURVEY	2650		
10 ³⁰		DRILL	2690	2725	WT 40 RPM 55 SEM 60 P.S. 1400 ROUNDRILL

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2000	GEL	6:00	9.2	32				55	9 3/4	X16-J 2 1/10
20	BENEFY	10:00	9.0	33						
	DUMPED TANKS				DEVIATION INSTRUMENT	DEPTH	DEGREES OFF			TOTAL HRS ON BIT 27
					Totco	2500	10			TOTAL FT BIT DRILLED 727
					WIRE LINE	2650	1/2"			DRILLER'S SIGNATURE

APPROVED

W A Thompson
PAN AMERICAN REPRESENTATIVE

APPROVED

Benji Falc
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 14 1969
LEASE NAME C-1 CAMERON HILLS WELL NO. C-1 FIELD WILCOAT

FIRST TOUR FROM 12⁰⁰ A.M. TO 8 A.M.

[illegible]

Footage - 130
Hours - 7 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
	Water	2.00	9.1	34			11	8 3/4	REGD STBA S-378262
		6.00	9.1	35					Total F.L. 921 Total H.S. - 27
	Abbas Baux.	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		Pump - 5 1/2" x 16" P.S.I. - 1300	
								S.P.N. - 60	
								DRILLER'S SIGNATURE Pat Foley	

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	RIC SERV.			12:45-2:15 TAIL OUT SLOW.
8:15	9:30	DRILL	1940		DRILL W/30,000 WT. 90 RPM. 2:15-3:15 UNLOAD D. COLLARS
9:30	10:00	WORK ON AIR LINES			TO #2 PUMP CLUTCH * LOAD UP 9 3/4" CASING
10:00	10:45	DRILL			DRILL W/30,000 WT. 90 RPM. UNLOAD PAN AM. TANK.
10:45	11:00	SURVEY			3:15-4:00 RUN IN D.C.
11:00	12:15	DRILL	1998		DRILL W/35,000 WT. 90 RPM. PICK UP D.C.
12:15	12:45	CIR. SAMPLE			FOOTAGE-58 IN 3 1/4 HRS.

FOOTAGE - 58 IN 3 1/4 HRS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		B'T NO.	SIZE	KIND
2	BENEX	10.00	9.2	34				4	8 3/4	REEDSTRA # 378266
	WATER	12.00	9.3	32				5	8 3/4	H.W. XIG-5
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL: 979 FT. 30 1/4 HAS.		
		TOTCO		1948		1 1/8"		OSI. 1300 SPM. 60		
								DRILLER'S SIGNATURE P. Flanagan		

THIRD TOUR FROM 4 P.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	
4 ⁰⁰	5 ⁰⁰	RUN IN			10 ⁴⁵ TO 12 ⁰⁰ DAILY
5 ⁰⁰	5 ³⁰	CLEAN BRIDGE @ 150' CLEAN 10' FILL			DRILLED 133 FT IN 5 1/2 HRS
5 ³⁰	6 ⁰⁰	DRILL WITH NO RAMP @ PSI 1400 SPIN 60			ON BIT
6 ⁰⁰	6 ¹⁵	RUN SEVILLE			TOTAL HRS ON BIT $\approx$ 2 5/8
6 ¹⁵	10 ⁰⁰	DRILL PSI 800 NO LINE SPIN 56			TOTAL FT 133
10 ⁰⁰	10 ¹⁵	SURVEY @ 2100'			REMOVED 12 & 3 COMETS SHAKE
10 ¹⁵	10 ⁴⁵	WORK ON NO. 2 PUMP VALVE CAP BASKETS.			TANK 1 PUMP OVERFLOW TANK

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CARE	DATE	KIND
103 1200	GEL	8 P.M.	9.1	32			2	874 HW X16-J No-2 1/2.
14	BINDER	10 P.M.	9.1	32				
WATER 2-1" STMS.		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		
		TOTAL		2120		1 3/4°		
		WIRE LINE				DRILLER'S SIGNATURE		

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

There were three trucks w/ trailers came out w/ Equip
Merus Trucking From Hay River w/ 5000 Gallon tank
Jims Light Oil Field Hauling w/ 5" Drill Collars & spare Kelly Hose
He hauled this from Edmonton w/ For Nabors Total 11 1/2 tons
Cocals welding from High Level w/ core B61

We had NO cat @ the big hill AS Everyone Else
was making it w/ No Help - the cats were climbing
up Along the cut line We opened & were Roughly
20 miles from the Hill - These three trucks
Didn't Even get to the big hill & sat for 15 hrs
Until A cat Came Back - There is No Reason
For them Not making it to lease so I told the
Drivers we would Not Pay All this waiting
Time. I feel we shouldn't pay it AS they
Didn't Even try to Get up & IF they would have
had trouble they could have Docked one trailer &
Winched Each other up

Wally

We Rented A 5000 Gal Storage Tank
From Robertson Geophysical Rentals in Hay River
FOR \$120.00 per month

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Nabors Drilling, Ltd. 24 HOUR PERIOD ENDING AT MIDNIGHT March 13 1969
 LEASE NAME Pan Am. c-1 Cameron Hills WELL NO. c-1 FIELD Wildcat

FIRST TOUR FROM 8:00 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	6:00	Work on pump drive			
6:00	6:30	Strip in			
6:30	7:00	Drill			W.O.B. - 20000 R.P.M. - 90
7:00	7:15	Survey			
7:15	8:00	Drill			W.O.B. - 10000 R.P.M. - 90

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		6:30	8.8	35			1	8 3/4	REED STA 36-370262
									TOTAL DRILL - 436' - 6 hrs.
									Pump 5 1/2" x 16" P.S.J. - 1200
									S.P.M. - 61
									DRILLER'S SIGNATURE <u>Pat Foley</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	8:30	DRILL	1455'		DRILL w/12 WT. 90 RPM.
8:30	9:30				CHANGE LINER GASKET ON D-500 FLY WHEEL SIDE.
9:30	9:45	RIG SERV.			B.O.P. CHECK. OK HYDRIL.
9:45	11:15	DRILL			DRILL w/15000 90 RPM 20,000 PSI: 1300
11:15	11:30	SURVEY			@ 1545 2' S.P.M. 60
11:30	1:45	DRILL			W.O.B. 30,000 90 RPM. DRILL 208 FT. 6 1/4 HRS.
1:45	2:00	SURVEY			@ 1610 2 1/2"
2:00	4:00	DRILL			1663 DRILL w/25,000 WT. 90 RPM.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
4.25	BENEX	10:00	8.9	35			1	8 3/4	REED STA 3 "378262
		2:00	8.9	32					TOTAL FT. 644 12 1/4 HRS.
									Pump 5 1/2" x 16"
									DRILLER'S SIGNATURE

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	4:30	DRILL WT 25 RPM 90 PSI 1300 SPM 60			10:45 TO 12:00 DRILL 8 3/4" HOLE
4:30	4:45	RIG SERVICE			WOB 30M RPM 60 SPM 1300 PSI.
4:45	5:00	SURVEY @ 1670 1 3/4"			FT DRILLED IN TOUR. 147-7 HRS
5:00	7:45	DRILL WT 30M RPM 90 PSI 1300 60 SPM			TOTAL FT ON BIT 791
7:45	8:00	SURVEY @ 1730 1 1/2"			TOTAL HOURS 19 1/4
8:00	10:30	DRILL WT 30M RPM 90 PSI 1300 SPM 60			
10:30	10:45	SURVEY @ 1790' 1 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
8 LB.	BEN-EX	6:00	8.9	32			1	8 3/4	STD-A J 311
1000	GEL	10:00	8.9	32					# 378262
6 GAL.	FUEL FROM PIG TANK								
									DRILLER'S SIGNATURE <u>Adrian</u>

APPROVED W. A. Kuyper
 PAN AMERICAN REPRESENTATIVE

APPROVED Ernie Grace
 CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Nobors-Dr'y Ltd 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 12 1968
LEASE NAME Pan Am Andex C-1. Cameron Hills WELL NO. C-1 FIELD Wildcat

FIRST TOUR FROM 12 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	6 ⁰⁰				Nippt up - Hook up Flore lines etc
6 ⁰⁰	6 ¹⁵				Pressure Test Blind Rams - 15 min - 1200 psi - O.K
6 ¹⁵	7 ⁴⁵	Run in collars + 13 ngl			Press Test pipe Rams 1200 psi - 15 min - O.K
7 ⁴⁵	8:00				Press. Test Hydril - would not hold - valve looking
		Henry No. 4 (Jr)			
		Joe Waldner			Worked 5 Hrs overtime to Get Flore Lines etc
		Robert Dyjur			Hooked up

DAYWORK: HOURS Joe Mills RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE W A Kingless

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 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		Work on Valves +			Pressure Test Hydril + Kill Line Valves to 1200 psi. For 15 min - O.K.
	10 ⁰⁰				Press test Kelly Cock - Did Not Hold
10 ⁰⁰	12 ⁰⁰				Pick up 9- Collors - Run In - Change Brigs on Kelly Bushings
1 ⁰⁰	2 ¹⁵				Drill out Cement - Float shoe & collar + c/n to Bottom
2 ¹⁵	2 ⁴⁵	Work on Rwy ^{Churn} Churn	2:45-3:15	2:15-4:00	Dump cement cut mud + Disp Hole
Sokil transport truck # 109 - 25 Gals Fuel					W. H. H. H. H.

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. 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	4:30	DRILL W/WOB	12	PSI	1250 RPM 100 7 ⁰⁰ To 8 ²⁵ DRILL W/WOB 10M 750 PSI
4:30	4:45	RH SURVEY			100 RPM
4:45	5:15	DRILL PSI 750 MIXING MUD			8 ²⁵ To 8 ³⁰ SURVEY @ 1260 1 ³ / ₄ °
5:15	5:30	SURVEY @ 1080' 1 ³ / ₄ °			8 ³⁰ To 9 ⁰⁰ DRILL W/WOB 15M 700 PSI
5:30	6:45	DRILL W/WOB 10 PSI 750 100 RPM			100 RPM
6:45	7:00	SURVEY @ 1160' 1 ³ / ₄ °			9 ⁰⁰ 9 ¹⁵ TRIP OUT 5 STDS TO WORK ON PUMP
Keir Air Lines made trip in w/ 185 w/ Geologist John Bea + Rig Supply Drive					

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
3800 LB.	GEL.	4 PM	8.4	37			1	8 3/4	ST3A # 378262
200 LB.	BICAR. SODA	6 PM	8.4	30					
17 LB.	BEN-EX	8 PM	8.7	34					
3 GAL.	FUEL FROM RIG TANK								
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
			1080	1 3/4°					
		TOTCO WIRE	1160	1 3/4°					
		LINE	1260	1 3/4°					
							DRILLER'S SIGNATURE		

APPROVED W. A. Hughes
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 11 1969
LEASE NAME PAN AM O-1 CAMERON HILLS WELL NO. 5-1 FIELD WINDCAT
FIRST TOUR FROM 12:30 M. TO 8 M.

[illegible]

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

[illegible]

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	12:00				W. O. C.
					WORK on #2 PUMP DRIVE
12:00	4:00				CUT OFF CASING. PICK UP B.O.P.
					W. O. C.

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

[illegible]

THIRD TOUR FROM 4:00 P.M. TO 12:00 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
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE 		

APPROVED

PAN AMERICAN REPRESENTATIVE

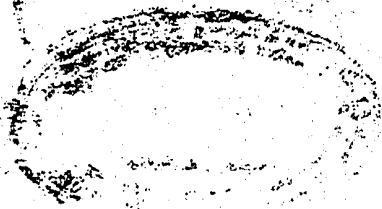
APPROVED

CONTRACTOR'S REPRESENTATIVE

Hickies welding came to location Mar-5-69.
Called By Steve Mat Kaluk stayed for casing
Job

Mar-11-69. He cut OFF Conductor Bbl + casing & welded
on casing bowl - 5 Hrs

[Handwritten signature]



PAN AMERICAN PETROLEUM CORPORATION

PIPE TALLY AND CEMENTING RECORD

LEASE Pan Am. And x Cameron Hill WELL NO. C-1 DATE March - 10 1969

PIPE RUN, SIZE 9 5/8" WEIGHT 36.0 GRADE J-55 TYPE JOINT ST+C MAKE New NKT NO. FT. _____

PIPE RUN, SIZE _____ WEIGHT _____ GRADE _____ TYPE JOINT _____ MAKE _____ NO. FT. _____

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.		
1	40	64	51			101			151			201			1	39 49
2	32	25	52			102			152			202				
*3	39	49	53			103			153			203			2	38 54
*4	38	54	54			104			154			204			3	21 80
5	40	97	55			105			155			205			4	
6	41	85	56			106			156			206			5	
7	41	51	57			107			157			207			6	
8	41	40	58			108			158			208			7	
9	41	68	59			109			159			209			8	
10	40	90	60			110			160			210			9	
11	41	78	61			111			161			211			10	
12	41	69	62			112			162			212			11	
13	41	49	63			113			163			213			12	
14	41	73	64			114			164			214			13	
15	40	42	65			115			165			215			14	
16	41	75	66			116			166			216			15	
17	41	80	67			117			167			217			16	
18	41	75	68			118			168			218			17	
19	41	77	69			119			169			219			18	
20	41	80	70			120			170			220			19	
21	41	73	71			121			171			221			20	
22	41	78	72			122			172			222			21	
23	41	78	73			123			173			223			22	
24	41	69	74			124			174			224			23	
25	40	36	75			125			175			225			24	
26	41	77	76			126			176							99 83
27	41	79	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 (37) 110611

NO. JOINTS RUN (25) 100618

F.S. + F.C. 3.37

TOTAL RUN - OVERALL 1009 55

OFF FOR THREADS 7.31

TOTAL - THREADS, OFF 1002.24

TOP PIPE BELOW: 17.15

☒ ROTARY DRIVE BUSHING

☐ DERRICK FLOOR

DEPTH LANDED K.B. 1019.39

CEMENT - MAKE Oilwell - Neat

KIND USED Bulk w/ 2% Col Cl

NO. SACKS 876

METHOD 2-plugs

REMARKS:

Cemented w/ 800 sks - 160 Bbls

15.0" Average Slurry Volume

Disp w/ 77 Bbls H-2-0

Bumped plug w/ 1200 PSI

@ 12:05 P.M. Mar-11-69

No Cement Returns

Float Held O.K.

APPROVED W. A. Kuyat PAN AMERICAN REPRESENTATIVE

Re cemented top w/ 76 sks oilwell cement - Good Returns to surface

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

Keir Air Transport Ltd made trip in with
 RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24-HOUR PERIOD ENDING AT MIDNIGHT MARCH 10 1969
 LEASE NAME Pan Am c-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

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

TIME FROM	TO	OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
			FROM	TO	
12:00	1:30	Trip in. ream			Light hole from 620 to 710 4' 30" 6' 00" Drill 940-971 W.O.B. 5000 R.P.M. - 150
1:30	1:45	Break circ. & clean 10' fill			6' 00" 6' 5" Survey
1:45	2:00	Drill	900	909	W.O.B. - 8000 R.P.M. - 150 6' 5" 8' 00" Drill 971-980 W.O.B. - 8000 R.P.M. - 150
2:00	2:5	Survey			
2:5	2:30	Rig service			
2:30	3:10	Drill	908	940	W.O.B. - 8000 R.P.M. - 150 Footage - 120
3:10	4:30	Bit balled up			Hours - 4 1/2

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		2:00	10.1	45			3	13 3/4	OSC-3 Ser. # 7002
		6:00	10.2	49					Total Footage - 120 Total Hrs 4 1/2
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
		TOTCO	908	7/8	Pump 5 1/2 x 16 P.S.I. - 200				
		WIRELINE	971	7/8	S.P.M. - 68				
				DRILLER'S SIGNATURE	Pat Foley				

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

TIME FROM	TO	OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
			FROM	TO	
8:00	8:30	DRILL	920	934	DRILL w/ 12000 WT. 150 RPM. 100-245 DUMMY TRIP
8:30	9:00	RIGSER SURVEY			Q 934 1 1/4 STRAP PIPE
9:00	10:00	DRILL	934	965	DRILL w/ 8000 WT. 150 RPM 245-345 DRILL
10:00	10:15	SURVEY			Q 965 1 1/16 997 TO 1019 w/ 4000 WT
10:15	11:45	DRILL			DRILL w/ 4000 WT. 150 RPM. 345-400 CIR. HOLE
11:45	12:00	WORK ON D-500 PUMP			FOOTAGE 999 FT.
12:00	1:00	DRILL	965	999	DRILL w/ 4000 WT. 150 RPM. HAS 500

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
700	GEL	10:00	10.3	49			3	13 3/4	OSC-3 # 7002
15	LIME	2:00	10	60					TOTAL 219 FT. 9 1/2 HAS
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
		TOTCO	934	1 1/4	PUMP 5 1/2 x 16 PSI 250				
			965	1 1/16	S.P.M. - 68				
				DRILLER'S SIGNATURE	P. Negrey				

THIRD TOUR FROM 5:00 P.M. TO 12:00 P.M.

TIME FROM	TO	OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
			FROM	TO	
4:00	4:30	CONDITION MUD			10 1/2 TO 11 1/2 RIG UP TO CEMENT
4:30	5:30	CIR. TO CONDITION MUD			11 1/2 TO 12 1/2 CEMENT CASING
5:30	6:30	TRIP OUT			
6:30	7:00	RIG UP TO RUN CSG			
7:00	10:00	RUN CSG			E. Gordon worked 3 hrs overtime taking Geologist to Cor.
10:00	10:15	RIG UP TO CIR. CSG			P. Negrey & R. Steinkie worked 5 hrs overtime
10:15	10:45	CIR. CSG			Running SURFACE CASING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
200 lbs.	GEL.	4:00	10.0	65			3	13 3/4	OSC-3 # 7002
		DEVIATION INSTRUMENT	DEPTH	DEGREES OFF					
					CONDITION OF BIT 211				
				DRILLER'S SIGNATURE	[Signature]				

APPROVED

W. A. Kingston

PAN AMERICAN REPRESENTATIVE

APPROVED

B. L. L. L.

CONTRACTOR'S REPRESENTATIVE

MGJ

Ran- 25 Jts- 9 5/8" 6.0# N.K.K J-55 NEW 5+6 casing
Landed @ 1019' K.B. - used Float shoe + collar + Gist controllers
Cemented w/ 800 sks Oil well Bulk w/ 2% Col 1/2-
Pumped 10 Bbls - H-2-O. Ahead cemented w/ 160 Bbls 15.0 PPG
Slurry Volume - Displaced w/ 77 Bbls H-2-O
Bumped plug w/ 1200# - @ 12.05 A.M. Mar-11-69
No Cement Returns. Float Held O.K.
Recemented Annulus w/ 76 sks Oil well Next Good Returns

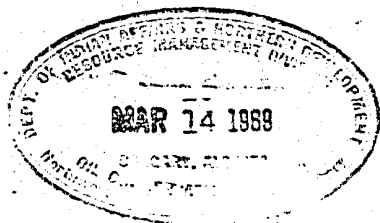
W. A. Kuyper

9 5/8" Rectorhead casing Bowl

Type 9RH-2

Ser# 53900

Part # 140 22524



PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 9 1969

LEASE NAME PAN AM C-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

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	1 ⁰⁰	Drill	412	437	W.O.B. - 6000 R.P.M. - 175 7 ¹⁵ Survey
1 ⁰⁰	1 ¹⁵	Survey			7 ¹⁵ 8 ⁰⁰ Drill W.O.B. 10000 R.P.M. - 175
1 ¹⁵	1 ³⁰	Rig serv.			
1 ³⁰	2 ⁰⁰	Tighten No. 1 pump belts			General Maintenance Footage - 122'
2 ⁰⁰	2 ³⁰	Drill	437	466	W.O.B. - 6000 R.P.M. - 175 Hours - 6 1/2
2 ³⁰	3 ⁴⁵	Survey			
3 ⁴⁵	7 ⁰⁰	Drill	466	528	W.O.B. - 15000 R.P.M. - 175

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		2:00	10.1	40			2	13 3/4	YT3A Ser # 553761
		6:00	10.4	72					Total Footage - 122' Hours - 12 1/4
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		Pump 5 1/2 x 16 P.P. - 150		
		Totco		437	3/4		S.P.M. - 68		
		WIRELINE		466	1/2		DRILLER'S SIGNATURE Pat Foley		

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 ⁴⁵	DRILL	534	558	W.O.B. 10.00 RPM 175
8 ⁴⁵	9 ⁰⁰	RIG SERV			
9 ⁰⁰	10 ³⁰	DRILL	558	588	W.O.B. 10000 RPM 175 FOOTAGE 149
10 ³⁰	10 ⁴⁵	SURVEY			HRS. 6
10 ⁴⁵	3 ¹⁵	DRILL	588	683	W.O.B. 14000 RPM 175
3 ¹⁵	3 ³⁰	SURVEY			
3 ³⁰	3 ⁴⁵	CHANGE GATE PAKING ON 4" CAMERON			
3 ⁴⁵	4 ⁰⁰	DRILL	600	WT. 175 RPM	

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	10.4	40			2	13 3/4	YT3A SER # 553761
30	LIQUE	2:00	9.8	38					TOTAL FT. 393 HRS. 18 1/4
1 1/2	WATER	DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		PUMP 5 1/2 x 16 PSI. 150		
DUMP TANKS		Totco		588	1/4		S.P.M. 68		
				683	1 1/2		DRILLER'S SIGNATURE P. Hegley		

THIRD TOUR FROM 4 P.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	
4 ⁰⁰	4 ³⁰	DRILL	683	692	WT 6m R.P.M. 175 PSI 150
4 ³⁰	4 ⁴⁵	RIG SERVICE			SWITCH SERVICE
4 ⁴⁵	6 ⁰⁰	DRILL	692	714	WT 6m R.P.M. 175 PSI 100
6 ⁰⁰	6 ¹⁵	SURVEY			@ 710' 3/4"
6 ¹⁵	9 ⁰⁰	DRILL	714	777	WT 13m R.P.M. 175 PSI 150
9 ⁰⁰	9 ¹⁵	SURVEY			@ 775' 7/8"
9 ¹⁵	10 ⁴⁵	DRILL	777	800	WT 10m R.P.M. 175 PSI 150

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
600		6:00	9.9	40			2	13 3/4	YT3A COND 531
1500	GEL.	10:00	10.0	53			3	13 3/4	HW OSC 3.
	WATER	DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
		Totco		710	3/4"				
		WIRE LINE		775	7/8"		DRILLER'S SIGNATURE [Signature]		

APPROVED

W. A. Kuyper
PAN AMERICAN REPRESENTATIVE

APPROVED

[Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME NABORS DRILLING LTD. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 8 1969
 LEASE NAME PAN AM. G-1 CAMERON HILLS WELL NO. C-1 FIELD WILDCAT

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 ³⁰	Drill	175	194	5'5" - 8'00 Drill
12 ³⁰	12 ⁴⁵	Survey			223 - 253.30'
12 ⁴⁵	1 ⁰⁰	Rig serv.			
1 ⁰⁰	1 ³⁰	Break circ. & clean sloughing gravel			2-6000 ⁺ WT
1 ³⁰	4 ⁰⁰	Drill	194	223	110 RPM
4 ⁰⁰	4 ¹⁵	Survey			Total footage - 78' 5 1/2" x 16" x 68 SPM
4 ¹⁵	5 ¹⁵	Work on No. 1 pump - Gland packing			750 PSI.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
10 lbs.	LIME	200	9.5	40			1	13 3/4	YT3A-J
		600	9.6	45			Scr #		553760
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		253' - 14 1/2 hrs	
		Wireline		194		7/8		DRILLER'S SIGNATURE Pat Foley	
		"		223		7/8			

SECOND TOUR FROM 8⁰⁰ P.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	DRILL	253	258	DRILL w/3000 WT. 100 RPM. RPM 100
8 ³⁰	8 ⁴⁵	RIG SERV.			PSI. 750
8 ⁴⁵	9 ¹⁵				WORK ON AIR COMPRESSOR. SPM. 68
9 ¹⁵	9 ³⁰	SURVEY			@ 253 1'
9 ³⁰	12 ⁴⁵	DRILL	258	283	DRILL w/5000 WT. 100 RPM. WT. & N BIT. 3000 TO 5000
12 ⁴⁵	1 ⁰⁰	SURVEY			@ 283 1/2'
1 ⁰⁰	1 ³⁰	DRILL	283	290	3000 WT. 60 R.P.M.

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

QUANTITY		MUD MATERIAL ADDED		DRILL LOG TIME		WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
				10.00	10.3	40				1	13 3/4	YT3A-J #553760
				12.00	10.4	40				2	13 3/4	YT3A. #553761
				DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		290 FT. 18 3/4 HRS.		
				Totco		253		1°		DRILLER'S SIGNATURE P. Hegley		
						283		1/2				

THIRD TOUR FROM 4⁰⁰ P.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	
4 ⁰⁰	5 ⁰⁰	TRIP IN & DRESS COLLARS			10 ³⁰ TO DRILL w/WT 6000
5 ⁰⁰	6 ⁰⁰	DRILL	290	312	WT 12000 100 RPM. 12 ⁰⁰ 100 RPM 100 PUMP PRES
6 ⁰⁰	6 ³⁰	WORK TIGHT HOLE			
6 ³⁰	6 ⁴⁵	SURVEY @	310'	7/8"	DRILL @ 122'
6 ⁴⁵	7 ⁰⁰	RIG SERVICE	SERVICE SWIVEL		5 3/4 HRS ON BTM.
7 ⁰⁰	10 ⁴⁵	DRILL	312	374	WT 6000 100 RPM
10 ⁴⁵	10 ³⁰	SURVEY			@ 370' 7/8"

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
50 lbs.	LIME	4 ⁰⁰	10.0	35					
		6 ⁰⁰	9.8	40			2	13 3/4	YT3A #553761
2000	GEL.	8 ⁰⁰	9.7	40					
		10 ⁰⁰	9.9	47					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		TOTAL HRS ON BIT 5 3/4	
		300 Totco -		310		7/8"		" FT DRILLED 122	
		WIRE LINE		370		7/8"		DRILLER'S SIGNATURE <u>Pat Foley</u>	

APPROVED

W A Kumpster
PAN AMERICAN REPRESENTATIVE

APPROVED

Arnie Fisco
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Nabors Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT March 26 1967
LEASE NAME C1 Cameron Hills WELL NO. _____ FIELD _____

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	8 ⁰⁰	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 P. Foley

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	1 ⁰⁰	RIG			
1 ⁰⁰	4 ⁰⁰	MIX MUD			

2 Loads mud Arrived on Lease
10 1/2 hrs From Highway to Location
Bulk Bin took 17 hrs From Highway

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
40	40 GEL	3 ⁰⁰ PM	40				1	13 3/4	YT3A-J
10 ⁰⁰	10 ⁰⁰ Fine								553760
10 ⁰⁰	10 ⁰⁰ Sandblast								

DEVIATION INSTRUMENT _____ DEPTH _____ DEGREES OFF _____

DRILLER'S SIGNATURE H. Nguyen

THIRD TOUR FROM 4 P.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	
4 ⁰⁰	12 ⁰⁰	W.O.B			WAIT ON WELL LICENSE TO SPUD

Falcon Truck pulled wellsite Trailer From Bottom of H. 11
to Lease - 5 Hrs Billed Thru Nabors Drig
100 Gals #2 Gas For Power Wagon Billed Thru Nabors Drig

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 P. Nguyen

APPROVED W. A. Kingstons
PAN AMERICAN REPRESENTATIVE

APPROVED S. Mathab
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Nelson Dwyer 24 HOUR PERIOD ENDING AT MIDNIGHT March 5 1969
LEASE NAME C1 Cameron Wells 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	
					Rig up - raise derrick
					Start hoists at 4:10.
					13 men ramp staff
					Water truck

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		

SECOND 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		

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	KINC
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
										DRILLER'S SIGNATURE

APPROVED

W. A. Kumpster
PAN AMERICAN REPRESENTATIVE

APPROVED

[Signature]
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Nalors daly 24 HOUR PERIOD ENDING AT MIDNIGHT March 4 1969
LEASE NAME C1 Cameron Hills 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	
					Day matter - rig up sub part up
					motor + hoist - dig ditch
					13 men plus camp staff
					Water truck on base

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		

SECOND TOUR FROM _____ M. TO _____ 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		

APPROVED at a meeting
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 6 CONTRACTOR'S NAME Paloma Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT March 2 1943
LEASE NAME C1 Common Hills WELL NO. _____ FIELD _____

FIRST 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	

SECOND 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	

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		

APPROVED: Ed A. Meyer
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE