

PAN-AMERICAN SHELL
KAKISA-H36

Date Issued

WELL NAME Pan American - Shell Nalco H-36

FIELD

Area:

LOCATION: Unit

H

Section

36

Grid 61° 00', 117° 15'

Latitude 60° 55' 18"

Longitude

117° 21' 05"

From Established Reference Marker

Rig Release Date:

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Approval to Commingle Production before Measurement. Application to Amend Approval No. to Commingle Production before Measurement. Application for M.P.R.—Oil. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Field Abandonment Programme and Approval. Well Card. Well Visit. Daily Drilling Reports.



Drilling Authority No. 126

Date Issued December 30, 1963

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

WELL COMPLETION DATA

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

Well name and number Sh. American - Shell Field H-36

Permit No. 3144

Sherrill Oil of Canada Ltd.

Pan American Petroleum Corporation

Consulting Engineers Limited

Pan American Petroleum Corporation

(Continued)

Issue No

Exploratory Licence No. 650

Exploratory Licence No. 650

Location: Unit

Section

Grid 61°00'; 117°15'

Latitude 60° 55' 18"

Longitude

From Established Reference Marker

	DATE	DEPTH	Pool (s)	N11
Spudded	Jan. 15/64		Interval(s) open to production	N11
Suspended				
Resumed				
Finished Drilling				
Deepened			Elevation: Gr.	758
Complete (gas/oil)			K.B.	768
Abandoned	Feb. 2/64	2500'	Drilling Contractor & Rig No.	Rig Indian Drilling, Calgary, Rig No. 17
Rig released	Feb. 2/64		Contractor's Licence No.	23.702

CASINO RECORD

CASING RECORD					
Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
7"	20	210'	4 558 Sea level	55	Circulate
1.					
2.					
3.					
4.					
5.					
6.					

[illegible]

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Anchoring, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
Feb. 2/64	Surface	T.D.	520 sacs of cement used - completely plugged.				N/A				N/A

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	P.S.I. Mins.	I.S.I.B.H.P.	P.S.I.B.H.P.	I.F.B.H.P.	P.F.B.H.P.	I.M.P.	F.H.P.	REMARKS
														None run.

Lab. No.	Sample	From	To	Source	Remarks	PRESENT STATUS OF WELL			
					N/A	Oil			
						Gas			
						Dry			
						Susp.			

Company Pan American Petroleum Corporation

Signed by 

Title Exploration Group Supervisor

Date March 10, 1964

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



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application to Abandon a Well or Suspend Drilling

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

Name and number of well **Pan American - Shell Kalles H-36**
Location: Unit **H** Section **36** Grid **61°00' 117°15'**
Latitude **60°55'15"** Longitude **117°21'05"**
From Established Reference Marker

Permit No. **3144** Lease No. **Pan American Petroleum Corporation**
Shell Oil Co. of Canada Ltd.
(Permitter, Licensee, Lessee)

Date of commencement of proposed programme **February 2, 1964 (abandonment)**

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at **Nil**
Gas at **Nil**
Water at **50' (surface)**
Total Depth **2500** Date last operations **February 2, 1964**
Present condition of well

Plugged and abandoned.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Sack of Cement	Method	Amount Pulled
1. 7"	20 lbs.	210.35'	+ 55 1/4'	55	Circulate	Nil
2.			subsea			
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAMME

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
			555	Hole plugged from surface to T.D.

The following logs have been run **I.E.S. log**
Other operations proposed **Nil**

Operations to be carried out by **Big Indian Drilling**
Address **Calgary, Alberta**
Responsible Agent in field **K. R. Coburn**

Contractor Licence No. **23702**
Address **Calgary, Alberta**

Dated at **Calgary, Alberta** this **10th** Day of **February**, 19 **64**
Signed by **Exploration Group Supervisor** Company **Pan American Petroleum Corporation**
Title **Exploration Group Supervisor** Exploratory Licence No. **650**

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

(For RESOURCES DIVISION use only)

APPROVAL

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

Confirming oral approval.

Dated **11th February**, 19 **64**

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



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

Application for a Drilling Authority

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

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

Name and number of well **Pan American - Shell Kakia E-36**
Location: Unit **H** Section **36** Grid **61° 00'; 117° 15'**
Latitude **60° 35' 18"** Longitude **117° 21' 05"**
From Established Reference Marker

Elevation: Ground **758** **K.B.** **762** feet above sea-level.
Well is expected to produce from **Slave Point** formation at a depth
of about **2300'** feet.
Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. **3144** Lease No. **—** Acreage **62,244 acres**
Permittee, licensee, or lessee **Pan American Petroleum Corporation-Shell Oil Co. of Canada Ltd.**
Exploratory Licence No. **650**
Surface owned by Crown or **Crown**

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

Petroleum and natural-gas rights owned by **Pan American Petroleum Corporation - Shell Oil Co. of Canada Ltd.**
We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb. Ft.)	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 7"	20	J-55	Domestic	Used	200'	50
2.						
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment **Gas and oil - Slave Point.**
B.O.P. arrangement. **Double gate valve on bottom - one close on pipe or kelly, the other close on nothing. Top Regan, which will close on pipe or kelly.**

Well will be drilled with (Rotary) Rig No. **17** by **Big Indian Drilling**
(Casing) (Drilling Contractor or company)

Calgary, Alberta

Responsible agent of applicant:—

Contractor's Licence No. **23702**

At well **K. R. Coburn**

At registered office **J. F. Trotter**

Address **Bentall Bldg., Calgary**

Address **Bentall Bldg., Calgary**

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

Dated at **Calgary, Alberta** this **23rd** day of **December** 19 **63**

Signed by **[Signature]** Company **Pan American Petroleum Corporation**
Title **Exploration Group Supervisor** Licence No. **650**

(For Resources Division use only)

APPROVED

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

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

Dated **30th December** 19 **63**

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

Pan. Am. Shell Kasing
H-36

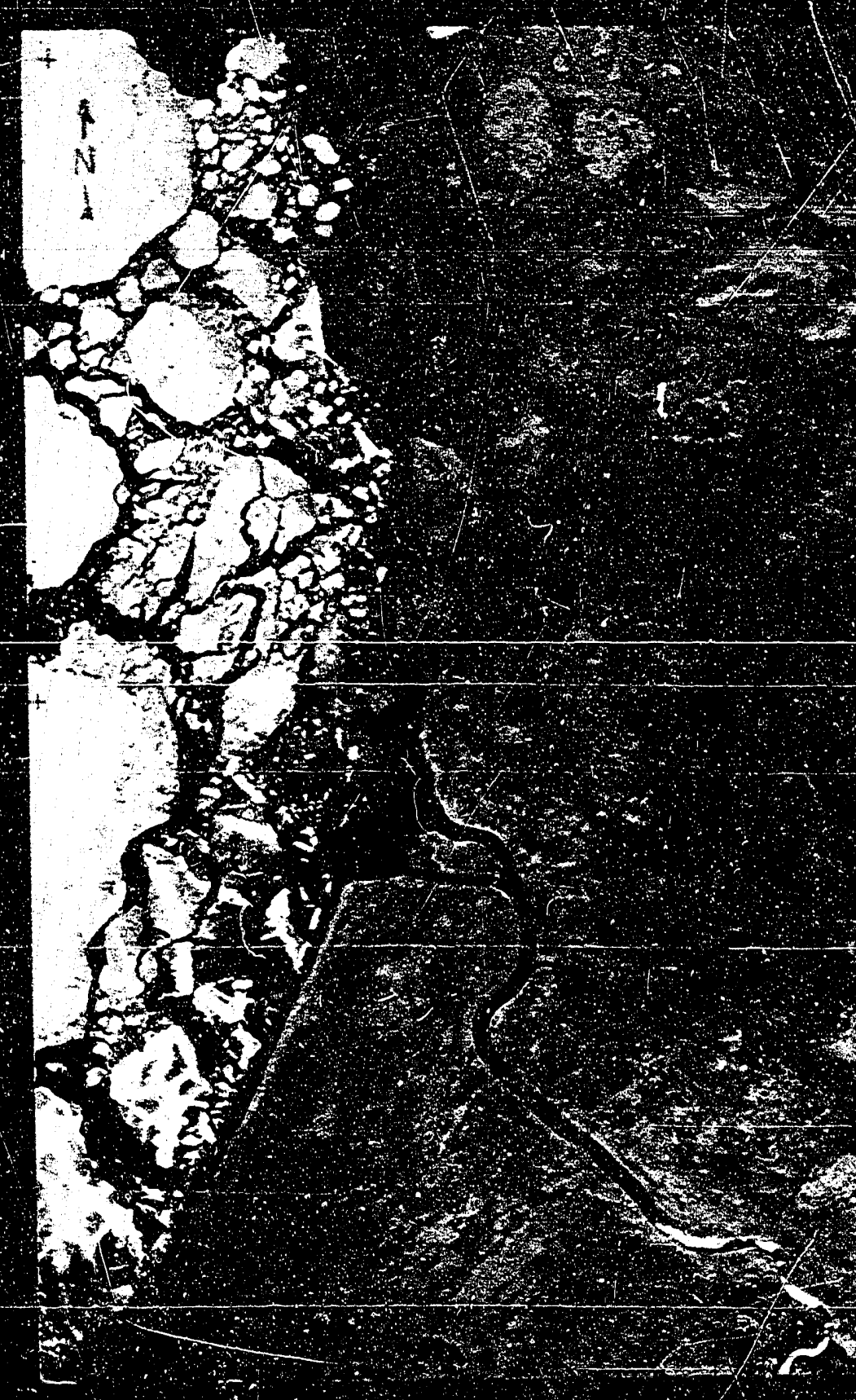
Pan Am Shell
H-36

Pan. Am. Shell Kasing
1-44

Pan Am Shell

H-36

2



WELL HISTORY REPORT

PAN AMERICAN - SHELL KAKISA H-36

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6/11/64

The following is the Well History Report for the Pan American - Shell Kakisa H-36 well. This well was drilled jointly between Pan American Petroleum Corporation and Shell Oil Co. of Canada Ltd.

Section I - Summary of Well Data

- (a) Name of Well
Pan American - Shell Kakisa H-36.
- (b) Permittee, Licensee or Lessee
Pan American Petroleum Corporation - Shell Oil Co. of Canada Ltd.
- (c) Operator
Pan American Petroleum Corporation, Bentall Building, Calgary, Alberta.
- (d) Location
Unit H, Section 36, Grid 61°00', 117°15'.
Latitude - 60°55'18"
Longitude - 117°21'05"
- (e) Co-ordinates
This test was not a development well.
- (f) Permit Number
3144
- (g) Drilling Contractor
Big Indian Drilling Co. Ltd., Calgary, Alberta. Rig No. 17, a Heavy Duty 2000 Gardner Denver.
- (h) Drilling Authority
No. 126, December 30, 1963.
- (i) Classification
New field well.
- (j) Elevations
K.B. + 768 (M.S.L.)
Ground + 758 (M.S.L.)
- (k) Spudded
January 15, 1964

(l) Completion Date
February 1, 1964.

(m) Total Depth
2498' (-1733 M.S.L.) *Well bottomed*
The hole was cemented from surface to T.D.

(n) Well Status
Tight.

(o) Rig Released
February 2, 1964.

(p) Hole Size
9" 0-210'
6 1/2" 210'-2498'

(q) Casing
7" surface casing was cemented 0-210' *with packer at 210'*
Casing specifications - 7", weight 20 lbs., grade J-55,
brand - Domestic.

Section II - Geological Summary

(a) Formation Tops

I.E.S. Log Tops

	<u>Depth</u>	<u>Subsea</u>
Hay River Shale	435	+ 333
Spence River Shale	1845	- 1077
Pine Point	2022	- 1254
Upper Chinchaga	2363	- 1595
Basal Sand	2477	- 1709

Sample Tops

	<u>Depth</u>	<u>Subsea</u>
Hay River Shale	435	+ 333
Spence River Shale	1845	- 1077
Pine Point	2020	- 1252
Upper Chinchaga	2365	- 1597
Basal Sand	2480	- 1712

(b) Cored Intervals

Depth 1995' - 2011' (-1227 M.S.L. to -1243 M.S.L.)
Formation - Spence River Shale.
Recovery - 1 foot.

(c) Core Descriptions

Sh. brn., bit., calc., hard, strong sulph. odor.

Coring times -

<u>Depth</u>	<u>Time - Minutes per foot</u>
1995	13
1996	24
1997	17
1998	24
1999	21
2000	19
2001	19
2002	24
2003	29
2004	28
2005	21
2006	21
2007	19
2008	19
2009	20
2010	21
2011	

(d) Sample Description

105' to
 120' Silts lt. gy., limy sandy in part, minor grn. sh. partings.
 130' to
 180' C/L to C/S lt. gy., silty bracks common.
 190' to
 200' C/L to C/S lt. gy., silty bracks common, with bands of
 fn. C/A.
 210' to
 230' C/S md. gy., slightly silty with grn. shale partings.

240' C/S, lt. gy., sil. silty in part, trace pyr.
 250' aa., gy-grn. arg. in part.
 260' aa.
 270' C/L, lt. gy. to gy-grn., arg./shaly, C/S aa.
 280' aa.
 290' aa. becoming v. shaly and silty.
 300' Sh. lt. gy-grn., calc. to limy, soft to dense, thin ls. bands.
 310' aa.
 320' Sh. aa., C/L, lt. gy., foss. frags. abund., arg.
 330' C/L, lt. gy-grn. to lt. gy., arg., shaly, sh. partings.
 340' aa.
 350' aa. with sh., lt. gy-grn., limy.
 360' C/L, lt. gy., soft v. shaly.
 370' aa., tan, hard, dense, in part.
 380' aa., in abund. foss. frags., coarse clastic in part.
 390' C/L to C/S, tan, dense, with sil. arg. res. trace clastic frags. (foss.)
 400' aa.
 410' aa.
 420' aa.
 430' aa.
 440' Minor cse. C/A, siltst., lt. gy., soft, limy pyr.
 450' Siltst., aa., arg./shaly.
 460' aa., incr. arg. content, decr. lime.
 470' aa. with trace C/A, md. gr., bioclastics, with silt and sh. matrix.
 480' C/A, aa., trace silt, aa., sh., lt. gy-grn., silty, calc.
 490' to
 520' Sh., lt. gy/gy-grn., calc., silty, soft.
 530' C/A, lt. gy., with C/S and silt matrix, partly bioclastic.
 540' aa., with interbeds of siltst., gy-grn., limy, micaceous.
 550' aa.
 560' C/A aa., fn. grained, siltst. aa., arg. (Note: This is extremely fine silt.)
 570' aa.
 580' Siltst., aa., with sh., pale gy-grn., silty, calc.
 590' aa., with trace C/A, very fn. grained, with C/S and silt matrix.
 600' Siltst., lt. gy-grn., limy, arg., soft, micaceous.
 610' aa., with streaks sh., limy, silty, and streaks bioclastic ls.
 620' Siltst. aa., becoming finer and grading to sh.
 630' aa.
 640' aa., with v. limy bands.
 650' Incr. sh. content.
 660' Sh., silty and limy aa., trace f. C/A.
 670' aa. incr. sh.
 680' aa., some lt. gy. limy sh., incr. lime.

690' aa., with v. silty streaks.
 700' Incr. lime.
 710' to
 740' Sh. lt. gy./gy.-grn.
 750' aa. grading in part to lt. gy. limy siltst.
 760' aa. incr. silt.
 770' to
 800' aa. incr. sh.
 810' aa. with siltst. becoming scarce.
 820' to
 850' aa., sh. lt. gy., with grn. tint, calc., limy, silty in part.
 860' aa. trace C/L lt. gy.
 870' to
 910' aa. sh., aa., not silty, with interbedded C/L, arg. firm, dense.
 920' aa., incr. lime content.
 930' Sh. aa. C/L, aa. with some tan to lt. gy.
 940' aa.
 950' aa. with some arg. C/L.
 960' C/L to v.f. C/S, with silt and sh. common, traces lt. gy. siltst.
 970' aa., with gy-grn., limy sh.
 980' aa., abund. cavings (shut down for 24 hours).
 990' C/L, lt. gy., arg. to shaly, interbeds of limy grn. sh.
 1000' aa. silty in part.
 1010' Sh., lt. gy. and gy-grn., calc./limy, soft.
 1020' Sh. aa., C/L, lt. gy., shaly.
 1030' aa., with C/L to C/S, lt. gy., shaly.
 1040' Sh., gy-grn., calc., v. soft, sh., lt. gy., v. limy, firm.
 1050' Sh., aa., C/L, lt. gy., arg., dense.
 1060' aa.
 1070' to
 1100' aa., thin C/L bands, lt. gy., shaly; (nearly marl).
 1110' aa., trace lt. gy., C/S.
 1120' Sh., lt. gy-grn., v. soft, C/L, lt. gy., v. shaly, firm.
 1130' aa.
 1140' to
 1200' aa., with the C/L grading to limy sh., minor C/L liminae.
 1210' to
 1280' Decr. lime content, mostly limy grn. sh.
 1290' to
 1310' aa. with lt. gy., C/L to C/S, arg./shaly.
 1320' aa. with trace C/A, f.g., gy., arg., pyr. dense.
 1330' aa.
 1340' C/L to C/S, lt. gy., shaly; sh., gy-grn., limy/calc.
 1350' aa. with trace siltst., lt. gy., limy, pyr., hard.
 1360' to
 1390' aa., only slight grn. tint to the sh., trace C/A.

1400' Incr. limy material; deer. grn. sh., no C/A.
 1410' C/L aa., sh. lt. gy., limy, minor lt. grn. sh. aa.
 1420' aa., incr. gy-grn. sh.
 1430' to
 1500' Sh., aa., C/L to C/S, lt. gy., arg., silty.
 1510' aa. with less silt and incr. lt. gy. sh.
 1520' aa.
 1530' aa.
 1540' Deer. grn. sh.
 1550' aa. with sh. md.-gy., splintery.
 1560' Deer. lime content.
 1570' to
 1610' Incr. silt; trace lt. gy. limy siltst.
 1620' Sh. lt. gy. calc.; C/L, lt. gy., arg./shaly; silty in part; siltst. aa.
 1630' Sh. lt. gy. with brn. specs, calc. in part; C/S lt. gy., arg.; C/L, aa.
 1640' Sh. lt. gy. grn. soft, calc., C/S and C/L aa.
 1650' aa.
 1660' to
 1680' Sh., aa, trace C/L and siltst.
 1690' aa. with sh. dk. brn. bit., calc., firm.
 1700' aa.
 1710' Sh. aa., C/L, lt. gy., v. shaly; minor brn. sh., trace silt.
 1720' aa.
 1730' Incr. lime.
 1740' aa. with siltst., lt. gy., limy.
 1750' aa.
 1760' C/L, lt. gy., v. shaly, silty in part; gy. and brn. sh. aa.
 1770' aa.
 1780' Incr. lime.
 1790' to
 1840' C/L, aa., sh. aa. lt. gy., siltst., lt. gy., limy, hard, dense.
 1850' C/L aa., sh., gy.-grn., with brn. specs; calc. in part, v. soft.
 1860' Sh. aa., minor C/L and brn. sh.
 1870' aa.
 1880' aa., with sh., brn. bit, calc.
 1890' Sh., dk. brn., bit., calc.
 1900' to
 1930' aa., pyr.
 1940' aa. trace lt. gy., C/L, minor lt. gy. sh. (caving)
 1950' aa.
 1960' Sh., brn., aa., sh., lt. gy., limy.
 1970' aa.
 1980' aa., with trace siltst., lt. gy-grn., v. limy.
 1990' aa.

2000' Cored 1995-2011. Rec. 1 foot sh., brn., bit., calc.
 (Bit partially jammed after 1 foot core cut.)
 2020' Sh., dk. brn., bit., C/S, lt. brn., bit., dense (abund.
 caving).
 2030' Sh., brn., limy, with C/L to C/S, lt. brn., shaly, bit.
 2040' aa.
 2050' aa.
 2060' aa. with decr. bit. sh., some tan C/S.
 2070' C/L to C/S, tan/brn., bit. in part, hard, dense, arg./shaly.
 2080' Mostly C/L as above.
 2090' aa.
 2100' aa.
 2110' aa. with C/L, lt. gy./wt., silic. to v. finely silty.
 2120' aa. silic. in part.
 2130' C/L, brn. bit, shaly; C/L wht./crm., f. pel. in part.
 2140' C/L, tan/lt. brn.
 2150' Lt./md. brn. arg.
 2160' aa.
 2170' aa. with scat. shaly streaks.
 2180' Incr. bit. shale content.
 2190' aa. in part limy, dk. brn. sh.
 2200' aa. with sh. dk. brn./blk. calc., hard, dense.
 2210' Sh., aa. with C/A, f. brn., doloblastic, arg., dense.
 2220' aa.
 2230' Sh., dk. brn., bit., calc., C/L, md. brn., bit., arg.,
 hard, dense.
 2240' Sh., lt. gy./grn., limy soft, C/L, aa; C/A, fine bioclastic
 with grn. sh. matrix.
 2250' aa.
 2260' C/L, C/S, tan/brn.; mic.x, with tiny blebs dead oil stain,
 arg., bit., tite.
 2270' aa. with shaly partings.
 2280' C/L, lt. tan/brn., arg. in part.
 2290' aa.
 2300' C/L, brn., aa., C/S, tan, firm, dense.
 2310' aa., crinoidal.
 2320' Highly re-x, relict, f.C/A in part.
 2330' aa.
 2340' C/L, aa., trace C/S.
 2350' aa., in part C/A, tan, f.g. re-x. to fl-x., dense.
 2360' aa. with 5% wht. sec. dol.
 2370' C/A, aa., dol. tan, mic.x, with relict f.g. text., dense.
 2380' aa.
 2390' aa. with minor wht. xln. anhyd.
 2400' aa. with anhyd., tan, dolomite.
 2410' Incr. anhyd.
 2420' Anhyd., tan/brn., sli. dol. in part, sh., red, silty, pyr.

2430' ss., with tan, mic. x, dol., anhyd.
 2440' Anhyd. and dol.
 2450' Sh., lt. gy., grn., (prob. caving) trace anhyd.
 2460' ss.
 2470' Dol., anhyd., with trace bright grn. sh.
 2480' ss. with red and grn. sh.
 2490' Ss., clear qtz., md. g., sub. arg., well cem.
 (silica) v.p.s.
 2500' ss., only trace sd. in sample, trace por.

Section III - Engineering Summary

(a) Drill Stem Tests

No tests were taken.

(b) Casing Record

7" surface casing set from 0 - 210'. (No casing was set below the surface casing.)

(c) Bit Record

<u>Bit No.</u>	<u>Size</u>	<u>Hrs. Drilling</u>	<u>Depth Out</u>
1	6 1/4 inch OSC 3	1.00 hrs.	30 feet
2	6 1/4 inch OSC 3	24.75 hrs.	216 feet
3	9 inch OSC 3	22.75 hrs. (reaming)	226 feet
2	6 1/4 inch OSC 3	37.75 hrs.	400 feet
4	6 1/4 inch OSC 3	31.50 hrs.	975 feet
5	6 1/4 inch OSC 3	40.00 hrs.	1640 feet
6	6 1/4 inch OSC 3	31.00 hrs.	1995 feet
7	5 5/8 inch type J core bit.	1.50 hrs.	2011 feet
8	6 1/4 inch OSC	9.75 hrs.	2091 feet
9	6 1/4 inch OWV	18.75 hrs.	2191 feet
10	6 1/4 inch OSC	23.50 hrs.	2371 feet
11	6 1/4 inch OSC	22.00 hrs.	2500 feet

(d) Mud Report

<u>Type</u>	<u>Amount Used</u>
Magco Gel	9900 lbs.
Caustic Soda	1600 lbs.
Soda Ash	400 lbs.
Mylo Gel	1950 lbs.
Spersene	900 lbs.
Tannathin	250 lbs.

(e) Deviation Record

No deviation surveys were made.

(f) Abandonment Plugs

The hole was cemented from surface to T.D. No plugs were set.

(g) Lost Circulation Zones

There were no lost circulation problems.

(h) Report of Blowouts

There were no blowouts at this well.

Section IV - Logs

An I.E.S. log was run on February 1, 1964, from base of surface casing to T.D. (One copy of the log is enclosed with this report.)

Section V - Analysis

(a) Core Analysis

One core barrel was run from a depth of 1995' to 2011'. Only one foot of core was recovered. Sh., brn., bit., calc.

(b) Water Analysis

No water was encountered below 50' - no samples taken.

(c) Gas Analysis

No gas encountered.

(d) Oil Analysis

No oil was encountered.

Section VI - Completion Summary

(a) Tubing Record

No tubing or packers were used.

(b) Perforation Record

No intervals were perforated.

(c) Cementation Record

No plugs were set. The hole was cemented from surface to T.D. upon abandonment. Five hundred and twenty bags of cement were used.

(d) Acidization and Fracturing Record

Not applicable.

(e) Back Pressure and Production Tests

Not applicable.

Signed by: M. A. Knock

M. A. Knock
Exploration Group Supervisor

Date: Feb. 18, 1964

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD
ENDING AT MIDNIGHT FEB 2/64 19__
LEASE NAME KAKASA WELL NO. 1436 FIELD WILDCAT

FIRST TOUR FROM 12¹⁵ 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	
1200	1300				RUN IN.
1300	1530				RIG UP TO CEMENT.
1530	1615				RAN PLUG 115 SACS CEMENT
1615	1700				PULL 26 STDS.
1700	1800				HAUL WATER

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

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

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
			8.00	9.00	WAIT ON WATER
			9.00	10.15	RUN IN 2 STS D. PIPE - RUN 2ND STAGE 150 SACS CEMENT - PULL BACK 24 STS. DRILL PIPE
			10.15	11.30	HAULING WATER TO CEMENT
			11.30	12.00	RUN 3RD STAGE 150 SACS AND PULL OUT OF HOLE
			1.00	3.00	WAIT ON WATER - RUN BACK IN 7 STANDS D.P. - CEMENT - 80 SACS
			3.00	8.00	CLEAN UP CEMENT EQUIP - LAY DOWN DRILL PIPE & COLLARS

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	RATE			HOURS W/D PIPE		
					FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
					8 D		DRILLER'S D			

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	
	12 ⁰⁰				RIG DOWN 20 SACS CEMENT ON TOP 520 TOTAL SACS PORTLAND NORMAL CEMENT IN 4 STAGES LAST PLUG DOWN @ 2.30 P.M.

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

[illegible]

APPROVED *John E. Nelson*
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT FEB 1 1964
 LEASE NAME KARISA PAN AM - SHELL WELL NO. H36 FIELD WILDCAT
 FIRST TOUR FROM 12 P M. TO 8 A M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	5 ⁰⁰		2475	2500	DRILLING
5 ⁰⁰	8 ⁰⁰				TRIP OUT. LOST ONE CONE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		12 ⁰⁰	102	54			11	6 1/4	OSC.
		4 ⁰⁰	103	53					
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		
							DRILLER'S SIGNATURE <i>W.D. Hawke</i>		

SECOND TOUR FROM 9 A M. TO 9 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	9	STAND BACK COLLARS + PICK UP PIPE TO TAKE THEM PLACE			
9	1130	TRIP IN - TONGUE UP ALL JOINTS			
1130	2	BREAK CIRC 90' OFF BOTTOM - REAM BOTTOM 45'			
2	5	MIX MUD + CIRC HOLE VISCOSITY UNCHANGED			
5	8	TRIP - CHECK TOOL JOINTS + TALLY EACH STAND			

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
1100	GEL	5 P.m	102	63			9	64	OSV
100	MT-LG-GEL								
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
						DRILLER'S SIGNATURE		WE Richardson	

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
8 ⁰⁰	12 ⁰⁰				LOGGING
12 ⁰⁰					LOG DEPTH 2496
					MEASUREMENT 2496.94

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT		DEPTH		DEGREE OFF			
						DRILLER'S SIGNATURE		W.D. Hawke	

APPROVED

PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 31/64 1964
 LEASE NAME KAKISA. WELL NO. H 36 FIELD WINDGAT.

FIRST TOUR FROM 12 P.M. TO 5 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	3 ⁰⁰				PULL OUT, CHECK ALL TOOL JOINTS. LAYED DOWN ONE FIXED FOUR
3 ⁰⁰	3 ¹⁵				CLOSE BOP.
3 ¹⁵	5 ⁰⁰				RUN IN
5 ⁰⁰	5 ⁰⁰	2390	2390	2390	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
50 ⁰⁰	S PERSENE	6 ⁰⁰	10.2	53				11	6 ¹ / ₄	OSC.
50 ⁰⁰	CAUSTIC SODA.									
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF					

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING Co 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 30/64 TO 79
 LEASE NAME KARISA. PAN-AM-SHELL WELL NO. H 36 FIELD WILDCAT

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 ³⁰				TIGHTEN PUMP BELTS.
1230	8 ⁰⁰		2200	2265	DRILLING

DAYWORK: HOURS 7.5 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

DAYWORK: HOURS									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		2:00	10.2	52			10	6 1/4	OSC
		6:00	10.2	50					
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF		
							DRILLER'S SIGNATURE W.D. Hawke		

SECOND TOUR FROM 8 AM M. TO 8 PM 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	12		2265	2290	DRILLING
12	1230				SERVICE
1230	1				CHECK BOP
1	8		2290	2350	DRILLING

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

EXTRA WORK RECORD									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		8 Am	10.2	51	5.4	2 1/2	10	6 1/4	OSC
		2 Pm	10.5	50					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
						DRILLER'S SIGNATURE		<i>W.E. Richardson</i>	

THIRD TOUR FROM 8 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	
8 ⁰⁰	12 ⁰⁰		2350	2370	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		10 ⁰⁰	10.3	50				10	6 1/4	OSC.
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE		W.D. Hawke	

APPROVED

Kath Peterson
PAN AMERICAN REPRESENTATIVE

APPROVED

W.D. Hawke
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO. 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 29/64 1964
 LEASE NAME KARISA. WELL NO. 436 FIELD WILDCAT.

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		2100	2140	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
50	SPERSENE	2 ⁰⁰	9.7	54			9	6 1/4	OWV.
		6 ⁰⁰	9.8	56					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
								DRILLER'S SIGNATURE W.D. Hawke.	

SECOND TOUR FROM 8 A.M. TO 2 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	11				DRILLING
11	1130				SERVICE
1130	12				CHECK BOP'S
12	530				DRILLING
6	630				WORK ON LIGHT PLANT
630	715				TRIP OUT
715	730				WORK ON LIGHT PLANT TRIP OUT 730-8

DAYWORK: HOURS 11 1/4 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
100	MY. L-606	8 A.m	10	56	56 2/3		9	6 1/4	OWV
		3 P.m	102	53					
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
						DRILLER'S SIGNATURE		W.E. Richman	

THIRD TOUR FROM 8 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	
8 ⁰⁰	9 ⁰⁰				SER RIG CLOSE BOP'S.
9 ⁰⁰	11 ⁰⁰				RUN IN W/ BIT.
11 ⁰⁰	12 ⁰⁰		2190	2200	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							10	6 1/4	OSC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF			
						DRILLER'S SIGNATURE		W D Hawke	

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 28/64 1964
 LEASE NAME KANISA WELL NO. 1436 FIELD WINDSAT.

FIRST TOUR FROM 12 P. M. TO 5.0 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		1995	2010	BEAN.
1 ¹⁵	8 ⁰⁰		2010	2065	DRILLING - BROWN SHALE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
200	My-L-Gel	4 ⁰⁰	62	58			8	6 1/4	OSC.
		6 ⁰⁰	63	9.3					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
		Type D					DRILLER'S SIGNATURE <u>W.D. Hawks</u>		

SECOND TOUR FROM 8⁰⁰ A.M. M. TO 8⁰⁰ P.M. 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				Drilling
9 ⁰⁰	9 ³⁰				SERVICE
9 ³⁰	11 ¹⁵				Drilling
11 ¹⁵	2 ⁰⁰				Put BEETS on mission Pump
2 ⁰⁰	2 ³⁰				Drilling
2 ³⁰	4 ⁰⁰				Fix WEIGHT INDICATOR
4 ⁰⁰	6 ³⁰				TRIP OUT - CLEAN UP & CHANGE BIT 620-7 TRIP IN 7-8

DAYWORK: HOURS 9.75 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
200	MY-L-GEL	8 A.M.	9.8	54	3 1/2		8	6 1/4	OSC.
200	GEL	2 P.M.	9.6	56			9	6 1/4	OWV
100	CAUSTIC								
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawks</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	
8 ⁰⁰	9 ³⁰				RUN IN
9 ³⁰	9 ⁴⁵				CLEAN OUT TO BOTTOM.
9 ⁴⁵	12 ⁰⁰		2090	2100	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		11 ⁰⁰	9.6	56			9	6 1/4	OWV. H.T.C.
		12 ⁰⁰	9.6	55					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawks</u>		

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 27/64 1964
LEASE NAME KAKISA PANAM-SHELL KAKISA WELL NO. H 36 FIELD WILDCAT
FIRST TOUR FROM 12 P.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	115	1980	1980	1995	DRILLING
115	245				CIRC. TO CORE
245	445				TRIP OUT
445	700				PICK UP CORE DBL. RUN IN, BREAK CIRC
700	800				UNPLUG BIT.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							6	6 1/4	OSC 3
							7	5 1/2	TYPE T CORE HEAD
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE <u>W.D. Hawks</u>		

SECOND TOUR FROM 8 AM M. TO 8 PM 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	9				DRILLING
9	930				SERVICE
930	115				DRILLING
					POT
8	415	WASH OUT BOTTOM 30'			CORING
415	445	CIRCULATE			
445	8	TRIP OUT			

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		8 AM	91	63	8	3/32	7	5 1/2	TYPE T CORE HEAD
		2 PM	95	59					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF		DRILLER'S SIGNATURE <u>W.D. Hawks</u>		

THIRD TOUR FROM 8 P.M. 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	
8 P	900				REC CORE #1
900	930				SER RIC.
930	1200				TRIP IN W/ BIT.

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

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

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 19 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 26/64 1964
 LEASE NAME K9052 WELL NO. 1436 FIELD WINDCAT

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	8:00		1700	1780	DRILLING (BLACK SHALE)

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

DAYWORK: HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	WATER	4:00	9.6	54				6	6 1/4	OSC 3
		1:00	8.5	54						
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
							DRILLER'S SIGNATURE		W D Hawke	

SECOND TOUR FROM 8 AM M. TO 8 PM 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	1030				DRILLING 12000 LBS
1030	11				SERVICE
11	1130				WORK ON WEIGHT INDICATOR
1130	12				CHECK BOP
12	8:00				DRILLING WITH "8000 AFTER 1845"

DAYWORK: HOURS 11.5 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

DAYWORK. HOURS									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
50	CAUSTIC	8am	9.3	63	2.1	2 1/32	6	6 1/4	OSC 3
		2pm	9.0	70	-	-	-	-	-
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF		DRILLING SPEED ALMOST DOUBLED	
								AT 1845' REDUCE WEIGHT 12000-8000	
								DRILLER'S SIGNATURE W E Richmond	

THIRD TOUR FROM 8 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	
8:00			1930		DRILLING

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

DAY WORK - HOURS									
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		800	9.2	65			6	6 1/4	OSC 3
		DEVIATION INSTRUMENT			DEPTH	DEGREES OFF			
								DRILLER'S SIGNATURE W.D. Hawke	

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING 24 HOUR PERIOD JAN 25/64 1964
 LEASE NAME KARISZ WELL NO. H 36 FIELD WILDCAT

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

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
12 ⁰⁰	5 ⁰⁰		1440	1595	DRILLING

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

DAY WORK LOG										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
	WATER	2 ⁰⁰	9.1	60				5	6 1/4	OSC3 HTC
		6 ⁰⁰	9.3	57	5.4	3/2	12.5			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE		
W.D. Hawke										

SECOND TOUR FROM 8 A.M. M. TO 8 P.M. 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	1030				DRILLING
1030	1230				TRIP OUT
1230	130				SERVICE - THAW OUT + CHECK BOP'S
130	345				TRIP IN
345	415				HOOKUP + WASH OUT BOTTOM 30'
415	615				DRILLING
615	645				MIX MUD DRILLING 645-

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200	MY-LO-GRU	8 A~	9.2	55	6.2	2 1/2		5	6 1/4	OSC3
		6 Pm	9.7	56				6	6 1/4	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE W.E. Richmond		

THIRD TOUR FROM 8 P.M. M. TO 12 P.M. 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		1640	1700	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100 ⁰⁰	CAUSTIC SODA.	9 ⁰⁰	9.6	54				6	6 1/4	OSC 3
		11	9.6	53						
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE W.D. Hawke	

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

FAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 24/64 1964
 LEASE NAME KAMISA WELL NO H 36 FIELD WIDCAT.

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	7 ⁰⁰	DRILLING	1240	1360	SHALE
7 ⁰⁰	8 ⁰⁰				ARC. CONDITION MUD SUDDEN RISE IN VIS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
2	MY-LD-BEL	2 ⁰⁰	8.8	60	6.2	32	12.5	5	6 1/4	OSC3
200	GEL	7 ⁰⁰	8.8	120						
100	CAUSTIC SODA									
50	TANNATIN.									
								DRILLER'S SIGNATURE	<u>W.D. Hancock</u>	

SECOND TOUR FROM 8 AM M. TO 8 PM 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	11				DRILLING
11	1140				SERVICE + CHECK BOP'S
1140	2				DRILLING
2	8:30				WORK ON PUMP
7:30	8:00				DRILLING

DAYWORK: HOURS 6.5 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100	CAUSTIC	8 AM	8.4	58				5	6 1/4	OSC3
		12 NN	8.8	65						
								DRILLER'S SIGNATURE	<u>W.D. Hancock</u>	

THIRD TOUR FROM 8 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	
8 ⁰⁰	8 ³⁰				WORK ON PUMP
8 ³⁰	12 ⁰⁰	TH	1420	1460	DRILLING

DAYWORK: HOURS 3.5 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
	WATER	8 ⁰⁰	8.5	75				5	6 1/4	OSC3
		10 ⁰⁰	8.5	65						
								DRILLER'S SIGNATURE	<u>W.D. Hancock</u>	

APPROVED _____

FAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling Co 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 23/64 1964
 LEASE NAME MANISA WELL NO. H36 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	1 ³⁰				RUN IN DCS. RIG TO PRES UP.
1 ³⁰	1 ⁴⁵				PRES UP ON CLOSE READERN. W/1000 PSI.
1⁴⁵	3⁰⁰				PRES UP 300 P.S.I. BOP'S HOODING GOOD
1 ⁴⁵	3 ⁰⁰				RUN IN
3 ⁰⁰	4 ³⁰				CLEAN OUT 50' FILL.
4 ³⁰	8 ⁰⁰		975	1040	DRILLING.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100 ⁰⁰	CAUSTIC SODA.	5 ⁰⁰	9.1	45				5	1 1/4	OSC ³
		7 ⁰⁰	9.1	47						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE W.D. Hawk.		

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING 24 HOUR PERIOD JAN/22/64 1964
 LEASE NAME KAKISA WELL NO. 1436 FIELD WILD CAT

FIRST TOUR FROM 12 P.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	8 ⁰⁰	DRILLING	850	975	SHALE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200	MY-LO-GEL.	12 ⁰⁰	9	49				4	64	OSC3 H.T.C.
100 [#]	SPORENE	4 ⁰⁰	9.1	46						
100 [#]	CAUSTIC. SODA.									

DRILLER'S SIGNATURE

W.D. Hawk

SECOND TOUR FROM 8 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	
8	9				DIRET MIX MUD
9	2				SERVICE + REPAIR
2	330				PULL OUT
330	8				CHANGE BOP VALVES

DAYWORK: HOURS 3 RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100	GEL	10 AM	9	63						

DRILLER'S SIGNATURE

W.D. Hawk

THIRD TOUR FROM 8 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	
8 ⁰⁰	12 ⁰⁰				CHANGE BOPS.

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

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

DRILLER'S SIGNATURE

W.D. Hawk

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PAN AMERICAN REPRESENTATIVE

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CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 21/64 19
LEASE NAME KARISA WELL NO. H 36 FIELD WILDCAT.

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

[illegible]

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

DAYWORK: HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100 LBS	MV 20 GEL	12 ⁰⁰	8.6	45				N	LH	OSC3 (24500)
300	GEL	4 ⁰⁰	8.9	44						
50	SVERSE	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>WD Hawk</i>		

SECOND TOUR FROM 8 Am M. TO 8 Pm 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	145				DRILL
145	215				SERVICE
215	500				DRILL
500	520				INSTALL Kelly Cock
520	800				DRILL

DAYWORK: HOURS 12 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

DATUM WORK - RECORD										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
50	MY L. G. CL	8 AM	8.3	45				4	6 1/4	O.S.C. 3
100	SUPERSEAL	12 NN.	8.6	47						
100	EAUSTIC	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>W. E. Richmond</i>		

THIRD TOUR FROM _____ M. TO _____ M.

[illegible]

DAYWORK: HOURS 8 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	48				4	6 1/4	OSC 3
				DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
										DRILLER'S SIGNATURE <i>W.D. Hanks</i>		

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PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 20/64 1964
 LEASE NAME KARISA WELL NO 436 FIELD WILDCAT

FIRST TOUR FROM 12 P.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	12 ³⁰				THROWING LINES
12 ³⁰	2 ⁰⁰	TRIP IN			RUN IN W/ DE'S.
2 ⁰⁰	3 ⁰⁰	DRILL PUG			DRILL OUT PUG - PUG TURNING IN SHO-
3 ⁰⁰	5 ⁰⁰	DRILLING	226	235	DRILLING
5 ⁰⁰	7 ⁰⁰	WAIT WATER			WAIT ON WATER
7 ⁰⁰	8 ⁰⁰	DRILLING	235	245	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
							2	6 1/4	HTC OSC 7 IRE RUN.
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawk</u>		

SECOND TOUR FROM 8 AM M. TO 8 PM 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	2				MIX MUD WHILE DRILLING
2	230				SERVICE
230	615				MIX MUD WHILE DRILLING
615	630				CIRC + PREPARE TO TRIP
630	800				TRIPPING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
	1300 GEL	4 PM	8.4	45					
	200 SODA ASH								
	150 GAVATIC								
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawk</u>		

THIRD TOUR FROM 8 P.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	
8 ⁰⁰	10 ³⁰	TRIPPING			
10 ³⁰	12 ⁰⁰	DRILLING	400	415	LIMESTONE + SHALE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
		10 ⁰⁰	8.4	45			4	6 1/4	OSC 3 (24500)
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawk</u>		

APPROVED _____

PAN AMERICAN REPRESENTATIVE

APPROVED _____

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO. 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 19/64 1964
LEASE NAME KAKISA. WELL NO. H 36 FIELD WILDCAT

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

[illegible]

DAYWORK: HOURS 9 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

DAY WORK RECORD										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE <i>W.D. Hauke.</i>	

SECOND TOUR FROM 8am M. TO 2pm 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	1230				Nipping up - STRING FLARE LINE
1230	215				Rig up FOR PRESS TEST + TRIP INTO 145'
145	445				BOP LEAKING - TAKE APART - EXAMINE + PUT TOGETHER AGAIN
145	515				BOP STILL LEAKING - TRIP OUT
515	730				TAKE BOP APART AGAIN + TRY TO FIX - DRAIN DOWN
730	800				PUT BOP BACK ON AGAIN + PREPARE TO PRESS. UP

DAYWORK: HOURS 4.5 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

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

THIRD TOUR FROM 8 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	
8:00	10:00				PRIME PUMP RIG TO PRES UP.
10:00	10:30				PRES UP W/5000 PSI FOR 1/2 HR. <u>OK</u>
10:30	12:00				THAW PUMP AND MUD LINES.

DAYWORK: HOURS 4 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

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

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PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORTRIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 18 1964
LEASE NAME KAKISA H 36 WELL NO. H 36 FIELD WILDCATFIRST 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	REAM	200	216	REAM. 6" - 9"
2:00	4:30	Drilling	216	226	Hard limestone
4:30	5:15	Mix mud			Can not hold vis. Hole making water
5:15	6:00	TRIP			
6:00	8:00	RUN CASING			

DAYWORK: HOURS 8 RATE 24.07 HOURS 8 RATE 24.07 HOURS W/D PIPE 8

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	BIT NO.	SIZE	KIND
	GEL 500#	2:00	9.2	4.7			3	9"	H.T.C. OSE 3
		4:00	9.2	4.5					
		DEVIATION INSTRUMENT		DEPTH	DEGREES OFF				
							DRILLER'S SIGNATURE <u>W.D. Hawk</u>		

SECOND TOUR FROM 8 A.M. M. TO 8 P.M. 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	12	PREPARE TO CEMENT			
12	12:30	RUN CEMENT			
12:30	3:00	DRAIN DOWN + CLEAN UP			
3:00	8:00	DIGGING CELLAR + GETTING BOP VALVES READY TO ASSEMBLE			
					CEMENT DOWN @ 12:30 P.M.
					55' SACS PORTLAND CEMENT 270 CAL. CHLORIDE
					DISPLACE 10 BBL WATER GOOD RETURNS

DAYWORK: HOURS 12 RATE 24.07 HOURS 12 RATE 24.07 HOURS W/D PIPE 12

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

THIRD TOUR FROM 8 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	
8:00	12:00	W.O.C.			
					WAIT ON CEMENT 8:00 TO 10:30
					NIPPLING UP 10:30 TO 12:00

DAYWORK: HOURS 4 RATE 24.07 HOURS 4 RATE 24.07 HOURS W/D PIPE 4

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

APPROVED

K.R. Robinson
PAN AMERICAN REPRESENTATIVE

APPROVED

W.D. Hawk
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

PIPE TALLY AND CEMENTING RECORD

LEASE PAN AM - SHELL KARISA WELL NO. H 36 DATE JAN. 18 1964
 PIPE RUN, SIZE 7 WEIGHT 20 GRADE J55 TYPE JOINT COUPLED MAKE _____ NO. FT. 210
 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	45	80	51			101			151			201			NO.	LENGTH OF JOINT
2	40	24	52			102			152			202				
3	39	66	53			103			153			203			1	
4	42	20	54			104			154			204			2	
5	42	35	55			105			155			205			3	
6			56			106			156			206			4	
Total 210 35			57			107			157			207			5	
8			58			108			158			208			6	
9			59			109			159			209			7	
10			60			110			160			210			8	
11			61			111			161			211			9	
12			62			112			162			212			10	
13			63			113			163			213			11	
14			64			114			164			214			12	
15			65			115			165			215			13	
16			66			116			166			216			14	
17			67			117			167			217			15	
18			68			118			168			218			16	
19			69			119			169			219			17	
20			70			120			170			220			18	
21			71			121			171			221			19	
22			72			122			172			222			20	
23			73			123			173			223			21	
24			74			124			174			224			22	
25			75			125			175			225			23	
26			76			126			176						24	
27			77			127			177							
28			78			128			178							
29			79			129			179							
30			80			130			180							
31			81			131			181							
32			82			132			182							
33			83			133			183							
34			84			134			184							
35			85			135			185							
36			86			136			186							
37			87			137			187							
38			88			138			188							
39			89			139			189							
40			90			140			190							
41			91			141			191							
42			92			142			192							
43			93			143			193							
44			94			144			194							
45			95			145										
46			96			146			196							
47			97			147			197							
48			98			148			198							
49			99			149			199							
50			100			150			200							

NO. JOINTS DELIVERED 5
 NO. JOINTS RUN 5
 PLUS SHOE
 TOTAL RUN - OVERALL 210.35
 OFF FOR THREADS 0
 TOTAL THREADS OFF 210.35
 TOP PIPE BELOW:
☒ ROTARY DRIVE BUSHING 10-10
☒ DERRICK FLOOR 7.35
 DEPTH LANDED 211.35 FROM G.L.
 CEMENT - MAKE PORTLAND CANADA
 KIND USED PORTLAND
 NO. SACKS 55
 METHOD CIRCULATE
 REMARKS:
CEMENT DROPPED AT
SURFACE ON COMPLETION
ABOUT 3 FT.
CEMENT DOWN 12.30 P.M.
JAN 18/64
GOOD RETURNS

APPROVED _____

PAN AMERICAN REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRLG. 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 17 1964
LEASE NAME KAKISA WELL NO. H36 FIELD WILDCAT

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

[illegible]

DAYWORK: HOURS 8 RATE \$24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

QUANTITY		MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		<i>Water</i>							<i>3</i>	<i>9</i>	<i>HUGHES OSC3</i>
			DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
										DRILLER'S SIGNATURE	

SECOND TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
FROM	TO		FROM	TO	
9.00	10.00	REGRIND			
10.00	10.45	SERVICE			
10.45	1.00	REGRIND			
1.00	1.30	MAINT.			
1.30	4.30	TEAM			
4.30	8.00	CIRCULAR			COULDN'T RED PIPE HOLE CAVING - MIXING MUD

DAYWORK: HOURS 11 1/2 RATE 24.67 HOURS _____ RATE _____ HOURS W/D PIPE _____

DAYWORK - HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
100 ⁰	CAUSTIC SODA	8.00 PM		40				3	9	HUGHES OSC 3
200 ⁰	SODA ASH									
2 1/2 ⁰	BENTONITE	DEVIATION INSTRUMENT			DEPTH		DEGREES OFF			
									DRILLER'S SIGNATURE <i>W E Richmond</i>	

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

[illegible]

DAYWORK: HOURS 4 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

DAYWORK: HOURS										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2800#	GEL	12 ~	9.1	47				3	9"	H.T.C. OSC 3
100#	STARCH									
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W.D. Hawke	

APPROVED

PAN AMERICAN REPRESENTATIVE

APPROVED

CONTRACTOR'S REPRESENTATIVE

FIRST TOUR FROM 12.00 M¹⁴ TO 8.00 A.M.

FIRST TOUR FROM 12.00 M TO 8.00 P.M.

[illegible]

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

DAYWORK: HOURS		RATE		HOURS		RATE		HOURS W/D PIPE		
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								2	6 1/4	HUGHES OSC3
	WATER									
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>W.E. Richardson</i>		

THIRD TOUR FROM 8.00 P.M. TO 12.00 M.10

DAYWORK: HOURS		4		RATE		24.07		HOURS		RATE		HOURS W/D PIPE	
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND			
								2	6 1/4	HUGHES OSCB			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF							
								DRILLER'S SIGNATURE W D Thorne					

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 15 1964
LEASE NAME KAKISA WELL NO. H-36 FIELD WILDCAT

FIRST TOUR FROM 12.00 M.¹² TO 8.00 P.M.

[illegible]

DAYWORK: HOURS 8 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

[illegible]

SECOND TOUR FROM 8.00 A.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	
					RIGGING UP AND HAULING WATER
					8.00 TO 7.15 P.M.
					SPURRED @ 7.15
7.15	8.00	DRILLING	0	30	7.15 TO 8.00 DRILLING 6 1/4" HOLE

DAYWORK: HOURS 12 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

[illegible]

THIRD TOUR FROM 8.00 P.M. TO 12.00 M.10.

[illegible]

DAYWORK: HOURS 4 RATE 24.07 HOURS _____ RATE _____ HOURS W/D PIPE _____

[illegible]

APPROVED E. R. [Signature]
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION
DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 14 1954
LEASE NAME KAKISA LA WELL NO. H-36 FIELD WILDCAT

FIRST TOUR FROM _____ M. TO _____ M.

[illegible]

NO SHIFT

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

DAY WORKING RECORD										
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE <i>W. D. Hawke</i>		

SECOND TOUR FROM \$ 2 M. TO 8.00 PM.

[illegible]

8.00 - 9.00 ~~AM~~ START TRUCKS & MOVE EQUIPMENT TO LEASE
9.00 - 8.00 P.M. RIGGING UP

DAYWORK: HOURS 12 RATE 24.01 HOURS _____ RATE _____ HOURS W/D PIPE _____

[illegible]

THIRD TOUR FROM 8.00 P.M. TO 12.00 M/10

[illegible]

8.00 - 12.00 MID. RIGGING UP AND HAULING
WATER

DAYWORK: HOURS 14 RATE _____ HOURS _____ RATE _____ HOURS W/D PIPE _____

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

APPROVED K. K. [Signature]
P/N AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT JAN 13 1964
LEASE NAME KAKISA H36 WELL NO. _____ FIELD WILD CAT

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					

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

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

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					

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

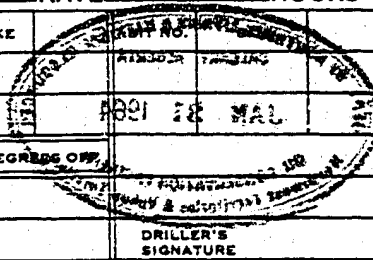
QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

THIRD TOUR FROM _____ M. TO _____ M.

TIME		OPERATION	DEPTH		DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.				
FROM	TO		FROM	TO					
6.00 P.M.	9.00	MOVING			MOVING FROM ENTERPRISE TO CAMP				
					6.00 - 9.00 P.M.				

DAYWORK: HOURS 3 RATE \$32.00 HOURS _____ RATE _____ HOURS W/D PIPE _____

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



APPROVED K.R. Goben
PAN AMERICAN REPRESENTATIVE

APPROVED [Signature]
CONTRACTOR'S REPRESENTATIVE