PAN AMERICAN SHELL

KAKISA F-35

Drilling Authority No. 135

Date Issued .....

WELL NAME Pan American - Shell Kakisa F-35

FIELD

Area: .....

LOCATION: Unit F Section 35 Grid 61-00; 117-15

Latitude 60-56-25 Longitude 117-21-49

From Established Reference Marker .....

Rig Release Date: ?

Status .....

Information Release Date

CHANGE OF NAME:

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

Drilling Authority No. 135

Date Issued ~~March 13, 1964~~ February 21, 1964

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCES DIVISION

WELL COMPLETION DATA

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

Well name and number: Pan American-Shell Kakisa F-35

Permit No. 3144

Shell Oil Co. of Canada Ltd.
Pan American Petroleum Corp.
(Permittee, Licensee, Lessee)

Lease No. —

Exploratory Licence No. 650

Pan American Petroleum Corp.
(Operator)

Exploratory Licence No. 650

Location: Unit F Section 36 35 Grid 61°00' 117°15'

Latitude 60°54'25" Longitude 117°21'49"

From Established Reference Marker

	DATE	DEPTH
Spudded	Feb.29/64	
Suspended		
Resumed		
Finished Drilling	Mar. 27/64	2395'
Deepened		
Complete (gas/oil)		
Abandoned	Mar.30/64	2395'
Rig released	Mar.30/64	2395'

Pool (S) None

Interval(s) open to production None

Elevation: Gr. + 748

K.B. + 756

Drilling Contractor & Rig No. Big Indian Drilling #17

Contractor's Licence No. 23702

CASING RECORD

Casing Size (Inches)	Weight	Amount	Set at—	Sacks of Cement	Method
1. 7"	20 lb.	221.66'	~~+ 534.34~~ 2221' subsea	65	Circulated.
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Hay River Shale	485'	+ 271
Spence River Sh.	1625'	- 869
Slave Point	1710'	- 954
Pine Point	2088'	- 1332
Chinchaga	2370'	- 1614

CORE RECORD

From	To	Rec.	From	To	Rec.
1714	1729	15			

LOG RECORD

Run No.	Type of Log	From	To
1	I.E.S.	Base Surface Casing	T.D.
2	Sonic-Gamma Ray Caliper.	"	"

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

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
arch 30/64	Surf.	T.D.	Hole cemented solid from T.D. to surface casing. 440 sacs of cement.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks
			Not applicable.

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
			Not applicable.

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	Mar.14, 1964	Slave Point	1709' (-953)	1729' (-973)	60	--	60	--	198 816	331 384	466 480	979 960	960	Gas to surface in 4 minutes. One million cubic feet estimated; recovered 90' gas cut, salty mud.
2	Mar.16, 1964	Slave Point	1770 (-1014)	1803 (-1047)	15 60	30	60	819 830	815 830	733 788	199 788	1091 1075	1078	Good air blow, mud to surface 12 minutes. Salt water to surface 25 minutes (35 Bbls./ hour. Recovered 1770' salt water.

Lab. No.	Sample	From	To	Source	Remarks
-6331	Gas cut salty mud.	1709' (-953)	1729' (-973)	Slave Point	
-6333-2	Water	1709' (-953)	1729' (-973)	Slave Point	Detailed lab report in Well History Report.
-6333-5	Water	1770' (-1014)	1803' (-1047)	Slave Point	" " "
NP-4-2223	Core	1714' (-958)	1729' (-973)	Slave Point	Core analysis - detailed report with Well History Report.

PRESENT STATUS OF WELL

Oil ..... (Interval)

Gas ..... (Interval)

Dry ..... D/A

Susp. .....

Company Pan American Petroleum Corporation

Signed by [signature]

Total ..

Date April 15, 1964

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

File No.
Drilling Authority No. 135

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 Kakisa F-35

Location: Unit F Section 35 Grid 61°00'117°15'

Latitude 60°54'25" Longitude 117°21'49"

From Established Reference Marker

Permit No. 3144 Lease No.

Pan American Petroleum Corporation
Shell Oil Co. of Canada Ltd.
(Permittee, Licensee, Lessee)

Date of commencement of proposed programme March 30, 1964

OIL, GAS, AND WATER ENCOUNTERED

(Depths)

Oil at Approx. 720' (± 36) slight show only - not logged (highly questionable).
Gas at Approx. 720' (± 36) very thin layer - not logged. 1709-1729 (-953 to-973) D.S.T.
Water at 125' (fresh water). Salt water 1770-1803 (-1014 to -1047') D.S.T.
Total Depth 2395' (-1639') Date of last operations March 30, 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. 17"	20 lb.	221.66' (From K.B.)	(± 544.44')	85	Circulate	Nil
2.						
3.						
4.						
5.						

PROPOSED ABANDONMENT PROGRAMME

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
			440	Cemented from surface to T.D.

The following logs have been run I.E.S., Gamma Ray - Sonic Caliper
Other operations proposed Nil

Operations to be carried out by Big Indian Drilling Contractor Licence No. 23702
Address Calgary, Alberta Address Calgary, Alberta
Responsible Agent in field K. R. Coburn
Dated at Calgary, Alberta, this 31st Day of March 19 64
Signed by
Title Exploration Group Supervisor Company Pan American Petroleum Corporation
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 given 28th March 1964

Dated 1st April, 19 64

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

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

File No. .....

Drilling Authority No. 133

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

RESOURCES DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is made hereby to amend Drilling Authority No. 135, concerning Pan American - Shell Kakisa F-35

(Name and Number of Well)

The following amendments are required:

The original hole was abandoned. The rig was skidded 5 feet north and the second hole was spudded in this location.

Reasons for the amendments:

Sub and bit twisted off prior to setting surface casing. Fishing job was not economical.

Dated at Calgary, Alberta, this 12th day of March, 1964

Signed by [signature]

Title Exploration Group Supervisor

Company Pan American Petroleum Corporation

(For Resources Division use only)

APPROVED

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

Confirming oral approval

Date 13th March, 1964 [signature]

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

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

File No.

Drilling Authority No. 135

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 Kakisa F-35

Location: Unit P Section 35 Grid 61° 00'; 117° 15'

Latitude 60°54'25" Longitude 117°21'40"

From Established Reference Marker

Elevation: Ground 745 K.B. 755 feet above sea-level.

Well is expected to produce from Slave Point formation at a depth of about 1760 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 Co. Ltd.
(Cable)
(Drilling Contractor or company)

Calgary, Alberta

Responsible agent of applicant:—

At well K. R. Coburn

Address Bentall Building, Calgary

Contractor's Licence No. 23702

At registered office J. F. Trotter

Address Bentall Building, Calgary

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

Dated at Calgary, Alberta, this 21st day of February 19 64

Signed by [signature]

Title Exploration Group Supervisor

Company Pan American Petroleum Corporation

Licence No. 650

(For Resources Division use only)

APPROVED

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

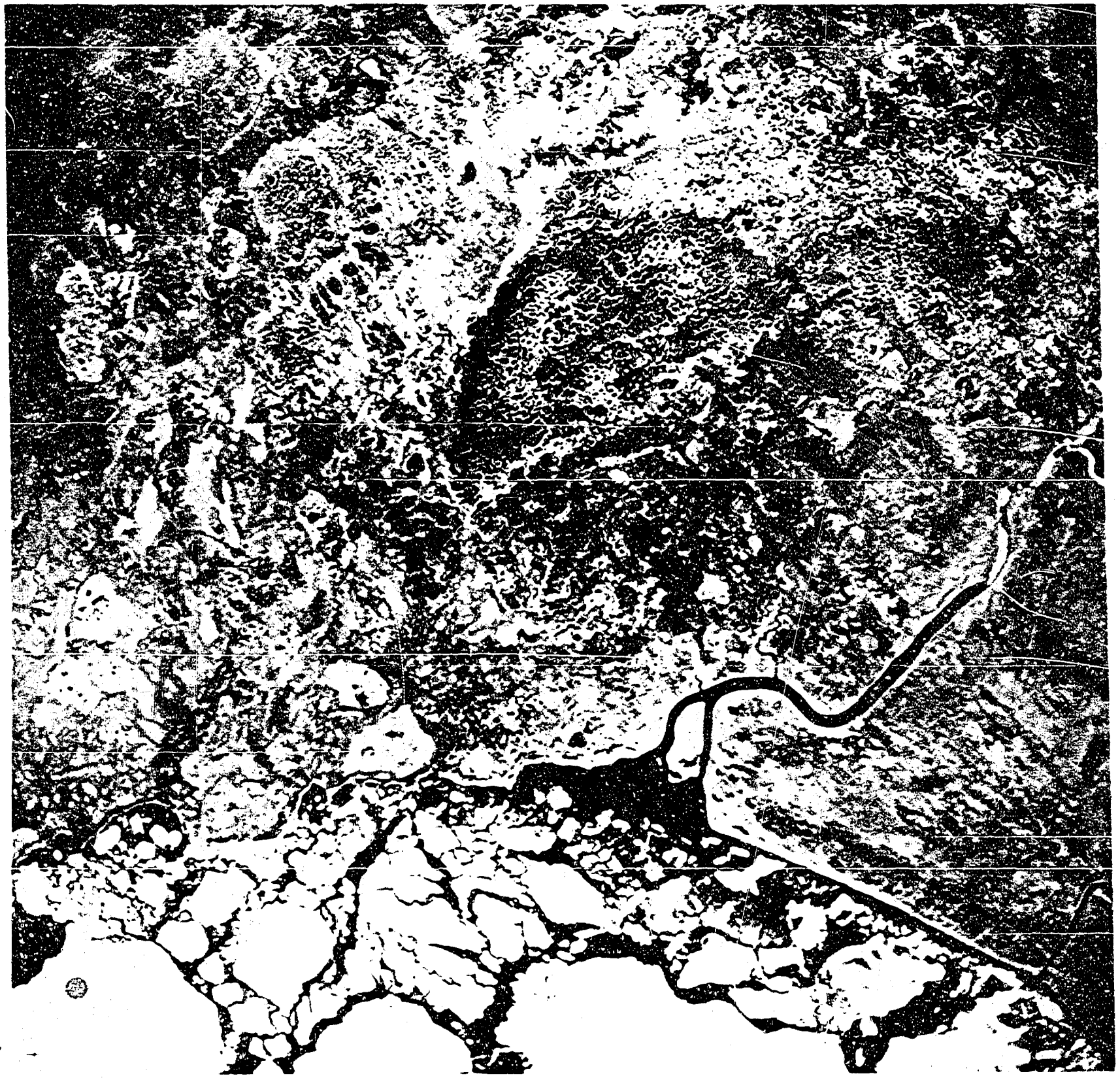
The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

Dated 21st February 1964

[signature]

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

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



WELL HISTORY REPORT

PAN AMERICAN - SHELL KAKISA F-35

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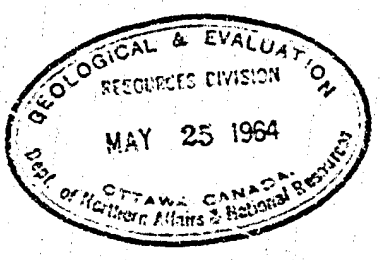

The following is the Well History Report for the Pan American - Shell Kakisa F-35 well. This well was drilled jointly between Pan American Petroleum Corporation and Shell Oil Company of Canada Limited.

Section I - Summary of Well Data

(a) Name of Well
Pan American - Shell Kakisa F-35.

(b) Permittee, Licencee 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 F, Section 35, Grid 61°00', 117°15'
Latitude 60°54'29"
Longitude 117°21'49"

(e) Co-ordinates
This test was not a development well.

(f) Permit Number
3144

(g) Drilling Contractor
Big Indian Drilling Company Limited, Calgary, Alberta. Rig No. 17, a Heavy Duty 2000 Gardner Denver.

(h) Drilling Authority
No. 135, February 21, 1964.

(i) Classification
New field well.

(j) Elevations
K.B. + 756
Ground + 748

(k) Spudded
February 29, 1964.

(l) Completion Date
March 30, 1964.

(m) Total Depth and Plugged Back Total Depth
Drilling Depth: 2395 (-1639 Sea level)
Logging Depth: 2392 (-1636 Sea level)
The hole was cemented from surface to T.D., ~~440~~ sacs of cement used.

(n) Well Status
Tight.

(o) Rig Released
March 30, 1964

(p) Hole Size
9" 0-~~213.66~~ (from ground level)
6¼" ~~213.66~~ - 2395 feet.

(q) Casing
7" surface casing was cemented from 0-~~213.66~~ feet (from ground level).
Casing specifications - 7", weight 20 lbs., grade J-55,
brand - Domestic.
(The casing was set using 85 sacs of cement.)

Section II - Geological Summary

(a) Formation Tops

I.E.S. Log Tops

	Depth	Subsea
Hay River Shale	485	+ 271
Spence River Shale	1625	- 869
Slave Point	1710	- 954
Pine Point	2088	- 1332
Chinchaga	2370	- 1614
T.D.	2392	- 1636

Sample Tops

Hay River Shale	480	+ 276
Spence River Shale	1620	- 864
Slave Point	1706	- 950
Pine Point	Questionable	Questionable
Chinchaga	2360	- 1604
T.D.	2395	- 1639

(b) Cored Intervals

Depth 1714 - 1729 (-958-973 subsea)
Formation - Slave Point
Recovery - 15 feet.
Core analysis is enclosed under separate cover.

(c) Core Descriptions

1714-1716	C/A, tan, v.f./f.g., sli. dol. and arg. C/S matrix; reef with stroms and amphs., v.f. C/A to C/S matrix.
1716-1719	C/A aa., good i.g. por., highly oil stn. and fluorescent.
1719-1720	C/S to v.f. C/A, fair orig. por. infilled with spar and gilsonite (5%).
1720-1721	C/L, crm./tan, f. pel. in part, dense, orig. org. por. infilled with gilsonite.
1721-1725	C/L, aa., grading to f. C/A in part crm. with spar calcite and gilsonite.
1725-1728	C/L, aa., pel. in part.
1728-1729	C/A, v.f.g., dk. gy., gilsonite throughout.

Gilsonite 5% or greater from 1719-1729. Stylolite throughout core.

Coring Times -

Depths	Time - Minutes Per Foot
1714	22
1715	18

1716	
1717	20
1718	15
1719	15
1720	20
1721	17
1722	20
1723	19
1724	18
1725	19
1726	18
1727	18
1728	18
1729	18

(d) Sample Description

0-100	Glacial clays and gravel.
100	C/S lt. gy., silty, hard, dense, brachs common.
110	aa., with pale green limy siltst.
120	aa.
130	aa. decr. silt content, sli. arg.
140 to 160	aa.
170	aa. Hole made water @ 5000 gal/hr.
180	aa.
190	C/S to C/L, lt. gy., sli. silty in part, arg.
200	aa.
210	aa.
220	aa. (Casing set @ 222)
230	aa.
240	aa., with v. shaly and silty streaks, trace sh., gy-grn., limy.
250	C/S, lt. gy., silty in part, C/L, aa. arg.
260	aa., gy-grn., shaly, mic. in part.
270	aa.
280	C/S, lt. gy., sh. silty, sli. arg., grading to v.f. C/A.
290	C/S, lt. gy-grn., arg./shaly, silty.
300	aa., grading to sh., gy./grn., limy, silty, mic.

310 C/S, lt. gy., arg., silty, dense.
320 aa. incr. shale.
330 aa.
340 aa. Marl, lt. gy., v. soft.
350 aa.
360 aa., in part grading to v. limy sh. and v. shaly ls.
370 aa., in part grading to v. limy sh. and v. shaly ls.
380 C/S, lt. gy., v. arg./shaly, soft/firm.
390 C/L to C/S, lt. gy., arg./shaly.
400 aa.
410 C/L, lt. gy., firm, arg.
420 C/L to C/S, tan, arg.
430 aa.
440 aa. with trace pale gy-grn. limy sh.
450 C/L, tan, hard, dense, sli. arg.
460 aa., trace sh. partings.
470 aa. (Base Unit 3 - 480')
480 aa., with lt. gy/gy-grn. silty ls.
490 Sh., lt. gy-grn, silty, limy, sli. mic., v. soft.
500 aa., with interbedded siltst., gy-grn., limy, shaly.
510 aa. Sh.
520 Sh., lt. gy-grn., limy, v. sli. silty, sli. mic., soft.
530 aa. less lime, v. soft, breaks down in H_2O.
540 aa., with C/A, f. gy., spar cem., dense.
550 aa.
560 Sh., aa., with abund. silty streaks.
570 aa.,with minor C/S, tan silty, dense.
580 aa.
590 aa., less lime and silt.
600 aa.
610 Sh., lt. gy-grn., calc., trace tan C/S.
620 aa.
630 aa.
640 aa.
650 to
680 Sh., lt. gy-grn., limy, firm, platy.
690 aa., trace C/L, lt. gy., firm, shaly.
700 aa.
710 aa.
720 aa. incr. lime content.
730 aa., trace silt.
740 aa. silty in part.
750 aa.
760 aa.
770 aa., with minor C/L bands, no vis. por., trace heavy oil.
780 aa. with C/L to C/S, lt. gy/tan.
790 aa.
800 Decr. lime and silt content.

810 to
840 Sh., lt. gy., limy, soft/firm.
850 aa., trace pale grn. sh.
860 Sh., aa., becoming sli. harder.
870 to
910 aa., with trace C/L, tan, shaly, dense.
920 aa., incr. C/L. (L.S. marker @ 920')
930 C/L, tan, hard, sli. arg., dense.
940 C/L to C/S, sli. arg., no vis. por., no vis. fracs or vein material.
950 aa.
960 aa. Grading to C/L, lt. gy., arg./shaly.
970 Sh., lt. gy., limy, soft, trace C/L.
980 to
990 Gas blew mud out of hole when tripping @ 990'. Drilling mud gas and oil cut.)
1000 Sh. lt. gy., limy, C/L to C/S, lt. gy., arg.
1010 Sh., aa., grn. in part, C/L to C/S, aa. arg./shaly.
1020 aa.
1030 Sh., aa., C/L to C/S, aa., tan to lt. gy.
1040 aa.
1050 Sh. and C/L aa.
1060 aa.
1070 aa.
1080 Sh., gy. and gy-grn., limy, C/L to C/S, tan, arg. shaly.
1090 aa., incr. lime.
1100 aa.
1110 Mostly sh. aa., minor C/L and C/S.
1120 to
1190 aa.
1200 aa., sli. silty in part.
1210 Sh., lt. gy-grn., calc./limy, trace tan C/L.
1220 aa., C/L to C/S, tan/lt. gy., silty in part.
1230 aa.
1240 Sh. aa., C/L to C/S, lt. gy/tan, arg./shaly.
1250 aa. decr. lime.
1260 aa.
1270 aa.
1280 aa.
1290 aa.
1300 aa. incr. sh. content, trace silt.
1310 aa., trace siltst., lt. gy/grn., limy, arg.
1320 Sh., aa., minor C/L to C/S.
1330 aa., with minor pale gy-grn. limy siltst.
1340 aa., incr. lime.
1350 aa., incr. sh. aa., with sh. mud, gy., non-calc.

1360 aa.
1370 aa., with C/S, tan/lt. gy., silty, arg.
1380 aa.
1390 to
1430 aa., decr. lime.
1440 aa., with gy-brn., sh., in part, sli. calc., splintery.
1450 aa.
1460 aa., with trace siltst., lt. gy., calc., hard, dense.
1470 Siltst., aa., sh., gy-grn./gy-brn., sli. calc.
1480 Sh. aa., C/S, lt. gy., v. silty, dense.
1490 to
1510 aa., with siltst., lt. gy., calc., arg., hard, dense.
1520 aa., incr. silt, decr. lime.
1530 aa.
1540 aa.
1550 aa.
1560 aa., with trace tan C/L.
1570 aa., sh., gy. and gy-grn., with brn. flecks, decr. silt.
1580 aa., incr. sh.
1590 aa. incr. silt.
1600 aa.
1610 aa.
1620 Sh., lt. gy-grn. with brn. specs.
1630 Sh., dark brn., bit., calc., pyr.
1640 aa., with lt. gy-grn. sh., incr. lime, trace C/L.
1650 aa., incr. brn. sh.
1660 aa.
1670 aa., abund. pyr.
1680 aa. with bands of lt. gy. C/L, pyr., v. shaly.
1690 aa.
1700 aa. Slave Point 1708' (-952)
1710 aa., with C/A, v. f.g., tan, oil stain, C/S matrix in part, reefal, i.g. and v.
1720 C/A, aa., with fair/good i.g. and v. por., abund. stroms and amphs. in bands.
1730 C/L, tan, pel. in part, minor C/A, cem. with spar and gilsonite.
1740 C/A, f.g., dk. gy. due to gils. cem., tite.
1750 aa., with C/L, tan, pel. in part, hd., dense.
1760 C/L, aa.
1770 aa.
1780 aa., with dol., lt. gy./tan, md./cse. x, fair i.x. por.
1790 Dol., aaa, in part, micro gran. (Drill 85-90' in 5 minutes)
1800 aa.
1810 Dol., lt. gy./wht., md./cse. x., trace por. and stain.
1820 aa., incr. por. and stain.
1830 aa.
1840 aa., with fracture and i.x. por.
1850 aa.
1860 aa. (losing circulation)

1870 to
1920 Dol., tan, micro.-cse. xln., good euhedral xtals in part, some massive micro xln., samples very fine, poss. int. xln. por., abd. cse. white euhedral dol. xtals, secondary infilling of fractures ? and vugs ? probable gd. por. in vugs and fractures but no vis. por., host rock likely tan dol. of varying xtal size, abd. wht. cse. xln. dol.

1920 to
1940 aa. trace int. xln. por., abd. wht. cse. xln. dol.

1950 aa. tan, v.f. - cse. xln., clean dol. aa. with trace wht. cse. xln. dol.

1960 Ls., tan, lime mud, chalky, trace foss. poss. strom., trace dol. aa.

1970 aa. tan - lt. brn. lime mud aa., trace foss., trace wht. cse. xln. dol.

1980 Ls. aa. sli. recrystallized.

1990 aa., becoming dk. brn. and bituminous, trace coral.

2000 Ls. tan - m. brn., lime mud with v.f.-f. pelletoid in part, sli. bit. in part.

2010 aa. Lime mud - lime silt aa., sli. dol., in part.

2020 aa.

2030 aa.

2040 aa.

2050 aa. trace strom. and coral.

2060 aa.

2070 aa.

2080 aa., sli. dol.

2090 Ls., lt. - m. brn., lime mud, bituminous.

2100 aa.

2110 aa.

2120 aa.

2130 aa. trace brach.

2140 aa.

2150 aa.

2160 Ls., m-dk. brn. lime mud, very bituminous.

2170 aa. m. brn., less bit. material.

2180 aa. lt.-m. brn. bituminous lime mud, sli. dol. in part.

2190 Sh., dk. brn., calc., hard, lumpy, very bituminous, petroliferous odour.

2200 aa.

2210 Sh., dk. brn., calc., hard, lump, very bituminous, petroliferous odour.

2220 aa.

2230 Ls., lt.-m. brn., mottled, bituminous, soft, with bit. sh. stringers.

2240 Ls. and bit. sh. aa.

2250	Ls., tan - m. brn. lime mud, bituminous in part.
2260	aa., trace wht. calcite in fractures or vugs.
2270	aa. mottled lt. - dk. brn., very bituminous in part, few skeletal frags., crinoids.
2280	aa., increase in tan clean lime mud.
2290	aa. crinoid frags. abd., cse. crinoidal sand in part with abd. lime mud matrix.
2300	Trace crinoidal sand aa.
2310	aa. tan - m. brn. lime mud, trace crinoid.
2320	aa., few small vugs infilled with white - clear calcite.
2330	aa., increase in m.-brn. sli. bit. lime mud.
2340	aa. tan - m. brn. lime mud, bit. in part.
2350	aa.
2360	aa.
2370	Dol., m. brn., v.f. xln. sli. bit., very calcareous, almost a dolomitic ls.
2380	Dol., m. brn., silt sized xtals, sli. bit.
2390	Dol. aa. with abd. tan massive cryptoxln Anhydrite.
2395	Dol. and Anhydrite aa.
T.D.	

Section III - Engineering Summary

(a) Report of Drill Stem Tests

Two drill stem tests were run, from 1709-1729 (-993 to -973 subsea) and 1770-1803 (-1014 to -1047 subsea).

1. Drill Stem Test No. 1 (1709-1729)

a. Gas to surface in 4 minutes - 1 million cubic feet estimated.

b. I.H.P. ~~960~~ 977
I.F.P. ~~382~~ 431
F.F. ~~480~~ 464
F.S.I. ~~816~~ 771
F.H.P. ~~960~~

c. Recovered 90 feet of gas cut salty mud.
Charts and fluid analysis are enclosed under separate cover.

d. Water Analysis

Top sample. Resistivity - 0.230
Bottom sample. Resistivity - 0.206

Bottom Sample Analysis (ppm)

Na & K	13,269
Ca	909
Mg	757
SO_4	109
Cl	22,720
HCO_3	2,550
Gravity	1.029
P.H.	7.7

2. Drill Stem Test No. 2 (1770-1803)

a. Good air blow.

b. Mud to surface in 12 minutes.

c. Salt water to surface in 25 minutes - estimated flow 35 bbls./M.
Recovered 1770' of salt water.

d. I.H.P. ~~1075~~ 1091
I.S.I. ~~830~~ 819
I.F. ~~768~~ 733

F.F. 788 779
F.S.I. 890 [illegible]
F.H.P. 1079

e. Water Analysis

Top Sample. Resistivity - 0.144
Bottom Sample. Resistivity - 0.142

Bottom Sample Analysis (ppm)

Na & K	19,779	(40%)
Ca	2,451	
Mg	1,033	
SO_4	67	
Cl	36,960	(48%)
HCO_3	1,460	
Gravity	1.047	
P.H.	6.5	

Charts and fluid analysis are enclosed under separate cover.

(b) Casing Record 222
7" surface casing was set from 0-~~213.66~~ feet (85 sacs of cement were used). No casing was set below the surface casing.

(c) Bit Record

Bit No.	Size	Hrs. Drilling	Depth Out
1	9" OSC 3	21.50	220'
2	9" OSC 3	23.75	164'
3	9" OSC 3	3.50	225'
4	6¼" D.T.	4.00	301'
5	6¼" OSC 3	23.50	991'
6	6¼" OSC 3	26.25	1380'
7	6¼" OSC 3	13.25	1710'
8	6¼" Diamond	14.50	1729'
9	6¼" OSC 3	7.50	1803'
10	6¼" OSC - IG	12.75	1929'
11	6¼" OSC - IG	23.25	2020'
12	6¼" OSC - IG	22.25	2100'
13	6¼" OSC	15.5	2155'
14	6¼" OSC	21.00	2245'
15	6¼" OSC	15.50	2330'
16	6¼" OSC	10.75	2395'

Hole skidded after original bit (#1) drilled 0-222 feet. Second hole started with bit #2.

(d) Mud Report

Type	Amount Used
Magco Gel	29,900 lbs.
Caustic Soda	3,350 lbs.
Barite	79,900 lbs.
Sapp	200 lbs.
Spersene	1,650 lbs.
Mylo Gel	1,200 lbs.
Tannathin	1,500 lbs.
Fibre Seal	1,540 lbs.
Sawdust	9,700 lbs.
Gel Flake	300 lbs.
Celo Seal	200 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. (~~440~~ 445 sacs of cement were used.)

(g) Lost Circulation Zones

Circulation was lost in the Slave Point Dolomite formation 1777'-1966' (-1021 to -1210 subsea).

(h) Report of Blowouts

The bit was changed at 990' (-234 subsea). A gas zone was encountered somewhere between this depth and 700' (+ 56 subsea), and a blowout occurred. The porous zone is of small extent as the exact depth could not be determined by use of samples or logs.

Section IV - Logs

An I.E.S. and a Gamma Ray Sonic Caliper log were run from base of surface casing to T.D. (One copy of each log is enclosed with this report.)

Section V - Analysis

(a) Core Analysis
A core was cut from 1714' to 1729' (-958 to -973 subsea), 15 feet of core was recovered. For core description see Section II, subsection (c).

A core analysis was made by Core Laboratories; one copy is enclosed with this report.

(b) Water Analysis
A water analysis was made on the fluids recovered with the two Drill Stem Tests.

For the detailed analysis see Section III, subsection (a).

(c) Gas Analysis
Small quantities of gas were encountered between 990' and 700' (-234 to + 56 subsea). No analysis was made on this gas. (See Section III, subsection (h).

(d) Oil Analysis
Small quantities of oil were encountered with the gas between 990' and 700' (-234 to + 56 subsea). The quantity was very small and no analysis was made.

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. (~~440~~ 225 sacs of cement were used.)

(d) Acidization and Fracturing Record
Not applicable.

(e) Back Pressure and Production Tests
Not applicable.

Signed by: M. A. Knock
Exploration Group Supervisor

Date: April 15, 1964

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 20 1964

LEASE NAME Pan-Am-Shell-Kakisa WELL NO. F-36 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	1				CIRC - STAND BY FOR MOTOR PARTS
1	8				HELP SET RIG MOTOR TOGETHER + TRY TO START

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

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2 AM	10.2	47						
6 AM	10.2	51				10	6¼	OSC 1G

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

SECOND TOUR FROM 8 A M. TO 8 PM M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM	11 AM				SET VALVES ON RIG MOTOR
11 AM	1 PM				COND MUD
1 PM	3 PM		1918	1929	DRILLING
3 PM	5 PM				PULL OUT, CLOSE RAMS B OP's
5 PM	6 PM				CHECK POWER END OF PUMP
6 PM	8 PM				RUN IN, LOST 50 BBL MUD ON TRIP

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

QUANTITY	MUD MATERIAL ADDED
500 SK	GEL
100 SK	MUD GEL
3000	BARITE

TIME	WT.	VIS.	FL. LOSS	CAKE	RW	BIT NO.	SIZE	KIND
4 PM	10.2	56	6.2	2/32	2.0	10	6¼	OSC 1G
						11	6¼	OSC 1G

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE A W D Manuke

THIRD TOUR FROM 8 PM M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	11				MIX MUD + LOSS CIRC MAT - PUMP DOWN BATCH
11	12				60 VIS - 10 WT - NO RETURN.
					HAUL WATER + CIRC TANK

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

QUANTITY	MUD MATERIAL ADDED
1000	GEL
15 SACKS	SAWDUST
8 SACKS	FIBRE SEAL
900	BARITE

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
10 PM	10	60				11	6¼	OSC 1G

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED J B BOEN PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 19/64 1964

LEASE NAME PAN-Am-SHELL KAKISA WELL NO. F-25 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 PM.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8				CIRC. STAND BY FOR MOTOR PARTS

DAYWORK: HOURS 0 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	OSC1G

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM	8 PM				CIRC. WAIT MOTOR PARTS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
400 lbs	CAUSTIC SODA	12 AM	10.2	60	5.4	3/32	12.5	10	6 1/4	OSC1G
200 lbs	SPERSENE		9.5	45	8.5	3/32				
200 lbs	TANNATHINS									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hamm

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12				CIRC - STAND BY FOR MOTOR PARTS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 PM	10.1	48						
		10 PM	10.3	48				10	6 1/4	OSC1G

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED J B Olen
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 18 1964

LEASE NAME PAN-Am-SHELL - KAKISA WELL NO. F25 FIELD WILDCAT

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	145				REPACK MISSION Pump + WORK on Rig Pump
					TRY TO MIX MUD + LOSE CIRCULATION
145	4				PUMP KEEPS LOSING PRIME
4	630				CLEAN MUD TANK
630	8				HAUL WATER

DAYWORK: HOURS 6 RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000#	GEL	12 NN	10.5	60						
50 SKS	SAWDUST							F2	6¼	OSC1G
2500	BARITE	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
5 SKS	FIBRE SEAL									
								DRILLER'S SIGNATURE	W E Richmond	

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM			1918		TEAR DOWN PUMP DRAIN RIG HOOK UP LEROY
	3 PM				TO MIX MUD, MIXING MUD
3 PM	8 PM				WORK ON RIG MOTOR, BROKEN HEAD.
					CIRC. W/ LEROY

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
900#	GEL							10	6¼	OSC1G
50 SKS	SAWDUST	6 PM	10.4	55						
5200#	BARITE	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W W D Hawks	

THIRD TOUR FROM 8 PM. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12				CIRC - STAND BY FOR MOTOR PARTS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								10	6¼	OSC1G
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W E Richmond	

APPROVED J B Bolen
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 17 1964

LEASE NAME PAN-Am-SHELL KAKISA WELL NO. F 35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	230				HAUL WATER + MIX MUD - CIRC HOLE - MUD GAS CUT
230	430		1843		DRILLING - LOSING MUD STEADY
430	645				HAUL WATER + MIX MUD
645	730				REGAINED FULL CIRC - DRILLING
730	8				LOST CIRC COMPLETELY - HAUL WATER

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

QUANTITY	MUD MATERIAL ADDED
1000	FIBRE SEAL
1000	SAWDUST
10 SKS	CAUSTIC - TANNATHIN
600	GEL
5500	BARITE

TIME	WT.	VIS.	FL. LOSS	CAKE	
2 Am	11.1	100			
4 Am	11.2	94			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
10	6¼	OSCIG

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	11 00				HAUL WATER MIX MUD VIS. 65 - WEIGHT 11.0
					TO HEAVY HOLE TAKING MUD.
11 00	1 00				MIX MUD 10.5 WEIGHT. HELD OK.
1 00	130				CIRC MIX MUD. - LOSS CIRC MAT.
130	730		1910		DRILLING, MIX LOSS CIRC MAT. & BARITE
730	800				NO CIRC MIX BARITE HOLE TAKING MUD DUE TO GAS FLOW.

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

QUANTITY	MUD MATERIAL ADDED
2500	GEL
35 SKS	SAW DUST
5 SKS	FIBER SEAL
16 SKS	GEL FLAK
6700	BARITE
20	CAUSTIC SODA
20	SPERSENE

TIME	WT.	VIS.	FL. LOSS	CAKE	
11	11.0	65			
1					

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
10	6¼	OSCIG

DRILLER'S SIGNATURE W D Hawke

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	930				DRILLING
930	12		1910	1918	HAUL WATER + MIX MUD

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

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE	
6 Pm	10.4	60	7.5	2/32	

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
10	6¼	OSCIG

DRILLER'S SIGNATURE W E Richmond

APPROVED J B Owen PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 16 1964

LEASE NAME Pan-Am-Shell-Kaiisa WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	2				TRIP OUT
2	615				MAKE up TEST Tool + TRIP IN T. TEST
615	630				Rig up To TEST
630					BEGIN TEST
					SHUT IN 635 Am Open AT 705 am

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 MN	11.6	75	4.8	2/32		9	6 1/4	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	930				TESTING: Good AIR BLOW MUD To SURFACE 12 Min SALT WA To SURF 25 MIN: I ST - 30 MIN; TOOL OPEN
930	1015	REPAIR PIN IN BLOCKS			75 MIN: F.S.I - 60 MIN. Rec 1770' Slp Salt wa.
1015	1 PM	PULL OUT			I.H. 1075 F.F 788
1 PM	2 PM	LAY DOWN PACKER SEE RPT CLOSE DOWN			I S I 830 F S I 830
2 PM	230	TIGHTEN BRAKES			I F 788 F H 1079
230	4 PM	RUN IN			
4 PM	5 PM	REAM 1714-1728			5 PM - 8 PM DRILLING

DAYWORK: HOURS 11 RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								16	6 1/4	OSC 1G.
		6 PM	11.6	70	5	2/32	12.5			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W.D. Yancke

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	1030	DRILL	1820	1843	LOST CIRC 1843' APPROX 50 BBL LOSS
1030	12				HAUL WATER + MIX MUD

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1000	GEL	6 PM	11.6	70						
100	TANNATHIN	10 PM	11.5	77	5	2/32		10	6 1/4	OSC 1G
100	SPERSENE	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
200	CAUSTIC									

DRILLER'S SIGNATURE W E Richmond

APPROVED J.B.B. Orr
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRES.

FORM C-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 15 1964

LEASE NAME PAN-AM-SHELL KAKISA WELL NO. F-35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	4				HOOK UP HOSES - PRIME PUMPS - MIX MUD - MUD VERY GAS CUT
4	8		1729	1760	DRILL

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

QUANTITY	MUD MATERIAL ADDED
4000#	BARITE
100#	SPERSENE
100#	TANNATHIN
200#	CAUSTIC

TIME	WT.	VIS.	FL. LOSS	CAKE	
4 AM	11.6	59	5	2/32	
6 AM	11.7	55			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
9	6¼	OSC3

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
~~8:00~~	10:30		1760	1780	DRILLING
10:30	11:00				SER RIG CLOSE B.O.P.
11:30	12:00		1780	1803	DRILLING
12:00	2:00				CIRC. MIX MUD
2:00	5:00				CIRC TO TEST

TEST OPEN HYDR. SHUT IN

DRILL BREAK: 1785 = 1790

5' IN 5 MIN. LOST 25 BBL. MUD

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED
1800#	GEL
7000#	BARITE

TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.
8 P.M.	11.4	53	3.5	2/32	12.3
6 PM	11.8	65	4.8	4/32	12.5

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
9	6¼	OSC3

DRILLER'S SIGNATURE W. J. Hawke

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12				CIRC FOR TEST

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE	
6 Pm	11.8	68			
10 Pm	11.5	77			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
9	6¼	OSC3

DRILLER'S SIGNATURE

APPROVED Kent E Peterson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 14 19 61

LEASE NAME Pan-Am-Shell Kakisa WELL NO. F-35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	130				TRIP OUT WITH CORE
130	315				REMOVE CORE + CLEAN UP + PREPARE TO RUN IN
315	6				TRIP IN WITH OSC3 REAMING CORED PORTION OF HOLE
6	8				CIRCULATE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		4Am	11	58						
		6Am	10.8	66				9	6¼	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W.E. Richmond	

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8⁰⁰	10⁰⁰				CIRC. WAIT TESTER — TOOL OPEN 1 HR SLIGHT INJ/A
10⁰⁰	1130				PULL OUT TO TEST — GTS 4 MIND 1 MIN/H REC 90'
1130	1⁰⁰				MAKE UP TESTER — SLI SALTY GAS CUT MUD
1⁰⁰	230				RUN IN W/ TESTER — IF 384 FSI 816
230	430				TESTING — FF 480 FHS 960
430	630				PULL TESTER — Not Taken
630	730				BREAKDOWN TESTER — 730 - 800 RUN IN.

DAYWORK: HOURS 12 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	W.D. Hawke	

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	11				THAW OUT PUMP + MUD LINES
11	12				FINISH RUNNING IN

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								9	6¼	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W.E. Richmond	

APPROVED K.G. Coleman PAN AMERICAN REPRESENTATIVE

APPROVED W.D. Hawke CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 13 1961

LEASE NAME PAN-AM-SHELL KAKISA WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	2	DRILL	1625	1650	
2	215				CIRC FOR 1650 SAMPLE
215	245				CONSULT ENGINEER
245	8		1650	1705	DRILL AHEAD

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

QUANTITY	MUD MATERIAL ADDED
1500	GEL 150 CAUSTIC
100	SPERSENE
100	MY-LO-GEL
100	TANNATHIN
750 GAL	WATER

TIME	WT.	VIS.	FL. LOSS	CAKE	
2 Am	10.7	48			
6 Am	10.6	45			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
7	6 1/4	OSC3

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	MIN PER FT.	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
700	815	14-15	22	1705	1710	DRILLING
815	830	15-16	18			CIRC SAMPLE @ 1710
830	1115	16-17	20			CIRC MIX BARITE TO WEIGHT UP MUD.
1115	200	17-18	45			MDP PULL OUT PICK UP CORE BBL, CHECK SLIMS SAME SAME R.R.
200	345	18-19	35			RUN IN W/ CORE #1
345	415	19-20	20			CIRC TO BOTTOM. 5' FILL
415		20-21	17	1714	1724	CUT CORE #1 1714' CORRECTION IN PIPE TALLY

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

QUANTITY	MUD MATERIAL ADDED
4000#	BARITE
150#	CAUSTIC SODA
100#	SPERSENE

TIME	WT.	VIS.	FL. LOSS	CAKE	PM
8 AM.	10.2	48	5	2/32	12.5
	10.0	54			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
7	6 1/4	OSC3

DRILLER'S SIGNATURE W.D. Hawke

THIRD TOUR FROM M. TO M.

TIME FROM	TIME TO	OPERATION	MIN PER FT.	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	930	21-22	20	1724	1729	CORING 6 1/8 DIAMOND BIT
30	1045	22-23	19			MIX MUD
145	12	23-24	18			TRIP OUT
		24-25	19			
		25-26	18			
		26-27	18			
		27-28	18			
		28-29				

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

QUANTITY	MUD MATERIAL ADDED
0	BARITE
	GEL

TIME	WT.	VIS.	FL. LOSS	CAKE	
6 Pm	11.3	54	5	2/32	
10 Pm	11.5	53			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
8	6 1/8	8 CORE

DRILLER'S SIGNATURE W E Richmond

APPROVED K G Pederson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big I INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 12/64 19

LEASE NAME Pan-Am-SHELL NAKISA WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	145	DRILL	1360	1380	
145	5	TRIP			BIT CHANGE
5	530	CIRC			CIRC TO WORK OUT BUBBLES IN HOLE
530	8	DRILL	1380	1400	

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 mn	11	50				6	6 1/4	OSC3
		6 Am	10.8	48				7	6 1/4	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W E Richmond	

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	1:00		1400	1470	DRILLING
1:00	1:30				SER RIG CLOSE BAILS
1:30	8:00		1470	1585	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
100#	MYLOGEL	8 AM	10.9	51	6.8	2/32	13.0	7	6 1/4	OSC3
200#	SPERSENE	7 P.M.	11.0	44	5.0	2/32	12.5			
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W.D. Hamke	

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12	DRILL	1585	1625	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 Pm	10.8	44						
		16 Pm	11.0	42				7	6 1/4	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W E Richmond	

APPROVED PAN AMERICAN REPRESENTATIVE APPROVED CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 11 19

LEASE NAME PAN-Am- SHELL KAKISA WELL NO. F-35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8		1010	1110	DRILL

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	TANNATHIN	2AM	11.5	64						
		6AM	10.9	69				6	6¼	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8⁰⁰	10 30		1110	1140	DRILLING
10 30	11 00				SER RIG - CLOSE BOP's.
11 00	8:00		1140	1300	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2000 GAL	WATER	8 AM	11.9	95	6.7	2/32	12S	6	6¼	OSC3
100 LBS	MY LO GEL	6 PM	11.0	50						
2 00 LBS	CAUSTIC SODA									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W W Hawks

THIRD TOUR FROM 8 M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8		DRILL	1300	1360	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 Pm	11.0	56						
		12 Mn	11.0	50				6	6¼	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED K L Peterson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 10 1961

LEASE NAME PAN-Am - SHELL KAVISA WELL NO. F FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	645		860	990	DRILL
645	8				TRIP
					GAS KICK WITH 200' DRILL COLLARS IN HOLE
					CLOSED BOPS

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

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2AM	9.8	43						
6AM	9.7	45				5	6 3/4	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.F. Richmond

SECOND TOUR FROM 8A M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
[illegible]	1200				MIX BARITE TO KILL GAS FLOW, FIRST TANK
[illegible]					11.8 WOULD NOT HOLD
2	300				MIX BARITE 13.1# HELD
[illegible]	HRS				RUN IN 100' OFF BOTTOM
[illegible]					WELL BLEW WHEN CIRC. WELL SHUT IN.
	430				BLEED OFF PRES.
130	715				CIRC. @ 880 715-800 PULL OUT.

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

QUANTITY	MUD MATERIAL ADDED
1200#	BARITE
800#	GEL.

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
12 NOON	11.5	55						
500	13.1	53						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hawke

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
[illegible]					
8	1030				FINISH TRIP
1030	11				CIRC ON BOTTOM
11	12		990	1010	DRILL

DAYWORK: HOURS 4 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	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.F. Richmond

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 9/64 19

LEASE NAME PAN-AM. SHELL KAICISA WELL NO. F35 FIELD WILDCAT

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	1				CIRC AROUND CONES
1	430				FISHING - MADE 4 TRIPS WITH MAGNET - RECOVERED ALL 3 CONES + BEARINGS
430	6				RUN IN WITH BIT + COLLARS
6	8		301	335	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								5	6 1/4	OSC3
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W E Richmond	

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
5 AM	200		335	640	DRILLING
200	230				SER RIG
230	430		610	640	DRILLING
430	515				DUMP MUD TANK & HOLE
515	800		640		DRILLING BUILD NEW VOLUME

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
10.00 #	GEL	10.00 AM	8.6	37	11.0	2/32	13	5	6 1/4	OSC3
2.00 #	MYLO GEL	7.00 PM	8.9	36						
2.00 #	CAUSTIC SODA	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
2.00 #	SPERSENE							DRILLER'S SIGNATURE	MUD Hands	

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12	DRILL	760	860	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		6 PM	9.4	43				5	6 1/4	OSC3
		10 PM	9.5	43						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W E Richmond	

APPROVED ____ PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM C-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 8 19[illegible]

LEASE NAME PAN-AM-SHELL KAKISA WELL NO. F 35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	1				RUN IN HOLE
1	130				WORK ON BOILER
130	3				CIRC - WORK ON BAKER PUMP
					TRY TO CLOSE REGAN VALE - LEAKS BADLY - TRY TO
3	645				TIGHTEN - CAN'T SO PULLED OUT OF HOLE TO TAKE
					REGAN APART
645	8				STRIP REGAN + OPEN IT UP

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								4	6¼	DT

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	1030				PUT NEW SEAL IN REGAN. PUT SAME BACK ON
1030	100				FISH FOR CHAIN.
100	230				RUN IN RIG TO PRES UP.
230	300				PRES UP 1000 PSI. ½ HR. PRES DROPPED TO 600 PSI
					BOP'S HOLDING OK. 600 PSI - PUMP LEAKING
300	330				DRILL OUT CEMENT & SHOE
330	430		225	301	DRILLING 430-500 SER RIG -500-800 DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200 sx	S.A.P.P.	400	WATER					4	6¼	SMITH - DT
200 sx	CAUSTIC SODA	700	8#	35						
200 sx	SPERSENE									
200 sx	MY-LO GEL									
400 sx	GEL									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hancock

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	945				~~DROPPED PIPE 6 FT to bottom - SHEARED CONES~~ ~~GOT LOCKED~~ - TRIP TO CHECK
					LOST ALL 3 CONES OFF BIT WAIT ON ORDERS
945	1045				TRIP IN + JET AROUND CONES W. 11# 300-350 LB.
1045	12				PUMP PRESS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
								4	6¼	DT

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED K A Peterson PAN AMERICAN REPRESENTATIVE

APPROVED [illegible] CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 7 1964

LEASE NAME Pan-Am-Shell - Kaniksa WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
12	130				CEMENTING - CEMENT DOWN 130 A.M.
					45 SACS PORTLAND W/2% CC
130	8				W.O.C.

DAYWORK: HOURS 8 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	W E Richmond	

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

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

DAYWORK: HOURS 12 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	W.O. Hawke	

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8	12				Rig up To DRILL OUT

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	W E Richmond	

APPROVED R G Peterson
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

PAN AMERICAN PETROLEUM CORPORATION

PIPE TALLY AND CEMENTING RECORD

LEASE PAN AM-SHELL KAKISA WELL No. F 35 DATE MARCH 6 19 64

PIPE RUN. SIZE 7" WEIGHT 20 GRADE J55 TYPE JOINT API MAKE _____ NO. FT. 211.56

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

NO.	LENGTH OF JOINT FEET	IN.	NO.	LENGTH OF JOINT FEET	IN.	NO.	LENGTH OF JOINT FEET	IN.	NO.	LENGTH OF JOINT FEET	IN.	NO.	LENGTH OF JOINT FEET	IN.
1	43	20	51			101			151			201		
2	43	26	52			102			152			202		
3	43	30	53			103			153			203		
4	40	38	54			104			154			204		
5	40	12	55			105			155			205		
SHOE	1	30	56			106			156			206		
7		5/6	57			107			157			207		
8	211		58			108			158			208		
9			59			109			159			209		
10			60			110			160			210		
11			61			111			161			211		
12			62			112			162			212		
13			63			113			163			213		
14			64			114			164			214		
15			65			115			165			215		
16			66			116			166			216		
17			67			117			167			217		
18			68			118			168			218		
19			69			119			169			219		
20			70			120			170			220		
21			71			121			171			221		
22			72			122			172			222		
23			73			123			173			223		
24			74			124			174			224		
25			75			125			175			225		
26			76			126			176					
27			77			127			177					
28			78			128			178					
29			79			129			179					
30			80			130			180					
31			81			131			181					
32			82			132			182					
33			83			133			183					
34			84			134			184					
35			85			135			185					
36			86			136			186					
37			87			137			187					
38			88			138			188					
39			89			139			189					
40			90			140			190					
41			91			141			191					
42			92			142			192					
43			93			143			193					
44			94			144			194					
45			95			145			195					
46			96			146			196					
47			97			147			197					
48			98			148			198					
49			99			149			199					
50			100			150			200					

TALLY OF JOINTS NOT RUN

NO.	LENGTH OF JOINT FEET	IN.
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		

NO. JOINTS DELIVERED 5

NO. JOINTS RUN 5

TOTAL RUN — OVERALL 211.56

OFF FOR THREADS 0

TOTAL — THREADS OFF 211.56

TOP PIPE BELOW:

☐ ROTARY DRIVE BUSHING 10.10

☐ DERRICK FLOOR 7.90

DEPTH LANDED 221.66 K.B.

CEMENT — MAKE PORTLAND CEM.

KIND USED NORMAL 200 # C

NO. SACKS 85

METHOD CIRCULATE

REMARKS:

PLUG DOWN 1.30 A.M

GOOD RETURNS

APPROVED _____

PAN AMERICAN REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 6 1964

LEASE NAME Pan-Am-Shell - Kakisa WELL NO. F35 FIELD Wildcat

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
12	6		150	164	DRILL
6	8				TRIP FOR BIT CHANGE

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		2 Am	10.3	42						
	WATER.	6 Am	10.8	45				2	9	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
800	900				RUN IN.
900	200		164	200	DRILLING.
200	230				SER RIG.
230	600		200	225	DRILLING.
600	700				~~RAN 5 JTS 7" CASING WASH TO BTM.~~
	900				PULL OUT. RIG TO RUN CASING
900	500				RUN 221.66 FT. 7" CASING WASH TO BTM

DAYWORK: HOURS 12 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 W D Hawkie

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8	1030				DRAIN DOWN Rig Pump - START LEROI + Rig UP TO CEMENT
1030	12				CEMENTING W/40 SACS PORTLAND W/2% C.C.
					7" CASING LANDED 221.66 K.B.

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 W E Richmond

APPROVED K A Peterson PAN AMERICAN REPRESENTATIVE

APPROVED ____ CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-50

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO. 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 5/64 1964

LEASE NAME PAN AM SHELL MANISA. WELL NO. F-35 FIELD WILDCAT.

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
12	3				DRILL
3	4				SWIVEL LEAKING - TRY TO STOP SAME
4	5				DRILL
5	8				FAST LINE JUMPED OFF - TRY TAKE CABLE OFF - CAN'T GET PULLEY OUT - PREPARE TO LAY DOWN DERRICK
			50	68	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
200	C.E.L	12 MN	9.8	59						
		4 AM	9.7	60				2	9	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.E. Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8 AM	9 AM		57		REPACK SWIVEL.
10 AM	11 AM				DRILL OUT BOULDERS
11 AM	2 00		58		DRILLING
2 PM	2 30				SER RIG.
2 30	8 00			140	DRILLING.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		12	9.7	60				2	9"	OSC3
		6 PM	11.1	60						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hawke

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8	1030				DRILL
1030	1130				REPLACE BOLTS IN ROTARY TRANSMISSION
1130	12				DRILL
			140	150	

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 PM	11.1	65						
		10 PM	10.8	53				2	9	OSC3

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.E. Richmond

APPROVED _____ PAN AMERICAN REPRESENTATIVE

APPROVED _____ CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 4 1964

LEASE NAME PAN-AM - SHELL - KAKISA WELL NO. F35 FIELD KAKISA

FIRST TOUR FROM 18 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	330				TEARING OUT + SKID RIG
330	430				UNLOAD CEMENT + CHEMICALS
430	8				Rig up - TROUBLE WITH LINES ON DERRICK

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 W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	800				RIG UP WAIT FOR BIT SUB. DRILL KELLY DOWN W/ 6¼ BIT. CHANGE NIPPLE ON SWIVEL.

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		7.00	9.5	60						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hamke

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	945				HAUL WATER + WAIT FOR SUB
945	1030				REAM DOWN KELLY + DRILL AHEAD
30	1130				STRIP PUMP + CHECK
30	12				DRILL

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 PM	9.7	58				2	9	OSC3
		10 PM	9.7	58						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED K M Peterson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 3 1964

LEASE NAME Pan-Am-Shell - Kakisa WELL NO. F35 FIELD Kakisa

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	2				CIRCULATE + WASH HOLE
2	330				TRIP OUT - LOST BIT + SUB IN HOLE
330	5				CONSULT TOOL PUSH + HAUL WATER FOR BOILER
5	8				FISHING FISH AT 44.63'

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 W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	12 00				CHASED FISH TO 95', PULL OUT RUN IN W/ 6¼ BIT.
12 00	4 00				CIRC. DRILL ON SUB. RECOVERED SUB CROSSWAYS IN HOLE
4 00	8 00				DRAIN RIG TEAR OUT & PREPAR TO CEMENT HOLE
					PUSH PLUG DOWN W/ DCS, CEMENT HOLE
					TO SURFACE 30 SKS 2% C.C
					TEAR OUT, TO SKID RIG.

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 W D Hawke

THIRD TOUR FROM 8 P M. TO 12 M.

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

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 W E Richmond

APPROVED P L Peterson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 2 1964

LEASE NAME Pan-Am-Shell Y Kakisa WELL NO. F35 FIELD Kakisa

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8				CIRCULATE WAITING ON WEIGHT MATERIAL

DAYWORK: HOURS 8 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 W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM	10 AM				HOOK UP LORRY TO MIX MUD
10 AM	12 AM				MIX MUD & WEIGHT MATERIAL PUMP DOWN
12 AM	[redacted]				MIX SECOND TANK VIS 60 WEIGHT 9.5 WATER
[redacted]	4 PM				DOWN TO 9.0, WELL DEAD.
4 PM					PUMPING WATER OUT OF PIT AND SUMP
6 PM	7 30				MIX MUD TO CIRC. HOLE
7 30	8 00				CIRC. HOLE

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	12 PM	105	85				1	9"	OSC3
	[redacted]									
5100	[redacted] BARITE									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hawks

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
9	12				MIX MUD & BARRIT

DAYWORK: HOURS RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
2900	GEL							1	9	OSC3
5400	~~BARRIT~~ BARITE									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED Keith E Peterson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME BIG INDIAN DRILLING CO 24 HOUR PERIOD ENDING AT MIDNIGHT MARCH 1 1964

LEASE NAME PAN AM SHELL WELL NO. F-35 FIELD WILDCAT.

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	1 00	REPAIR			SHIM SWIVEL
1 00	8 00	DRILL	125	150	CAN'T GET STRING TO PROP PAST 130' AFTER CONNECTION
					HOLE FLOWING & CAVING TROUBLE TO MAKE CONNECTION

DAYWORK: HOURS 7 RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			WATER					1	9	OSC

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE RICHMOND

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	1 30				MIXING MUD CANNOT MAKE CONNECTION
1 30	8 00			220	DRILLING MIX MUD & LIMESTONE

DAYWORK: HOURS 12 RATE HOURS HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
1900 bbls										
100 bbls										

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	9		220	225	DRILLING
9	12				CIRCULATE WAITING ON WEIGHT MATERIAL

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 W.E. Richmond

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM O-19 7-60 Mr. Thom

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT Feb 29 19 64

LEASE NAME Pan Am Kansas WELL NO. F-35 FIELD Wildcat

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12 00	4 00				Working on rig Trying to get derrick up, hyd. hose broken
4. 00	8 00				Hauling water - put leaking into sumps

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

QUANTITY	MUD MATERIAL ADDED
400	gel
200	Sawdust

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE T. E. Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	1.30				Hauling water
1 30	7 30		0	115	Spudded @ 1.30 Drilling
7 30	8 00				Repack pumps
					Hole flowing 5000 gal per hour

DAYWORK: HOURS 12 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 W. D. Hawke

THIRD TOUR FROM 8 00 P.M. TO 12 00 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	10 00	Drill	115		Well flowing strong @ approx 5000 gph.
10 00	10 30	Pick up swivel			
10 30	12 00	Drill		125	

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

QUANTITY	MUD MATERIAL ADDED
1000	Bentonite

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE T. E. Richmond

APPROVED Keith Stevens
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM 0-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian. 24 HOUR PERIOD ENDING AT MIDNIGHT March 31 19 64

LEASE NAME Ramsa. WELL NO. F35 FIELD Wildcat

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12.00	4.30				Rigging out Load trucks, move dog house & standing pump to next location.

DAYWORK: HOURS 4.5 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 8A M. TO 12 P.M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8.00	1.00				DIG OUT & THAW OUT WHEELS & JACKS TO MOVE CAMP
1.00	5.00				MOVE CAMP FROM F36 TO L19
5.00	8.00				GET UP CAMP & UNLOAD TRUCKS.

DAYWORK: HOURS 12 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	W.D. Hawk	

THIRD TOUR FROM M. TO M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
					No shift.

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 T.R. Colburn PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT March 30 19 64

LEASE NAME Pan-Am-Shell-Kaiser WELL NO. F35 FIELD Wildcat

FIRST TOUR FROM _____ M. TO _____ M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	1				Haul Water
1	2				Rig up + Cement
2	8				Lay Down Pipe + Start To Tear Out
					Cement Down At 2 Am

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

QUANTITY	MUD MATERIAL ADDED
116	Cement

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W. E. Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	8 00				Tear Out. Loading Trucks.
					Cement Top Hole w/ 30 Sax Cement.

DAYWORK: HOURS 12 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 W. D. Hamby

THIRD TOUR FROM _____ M. TO _____ M.

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

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 [illegible]

APPROVED K. R. Coburn
PAN AMERICAN REPRESENTATIVE

APPROVED _____
CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60 Thoms

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 29 1964

LEASE NAME Pan-Am-Shell-Kakisa WELL NO. F-35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	5				HAUL WATER AND CLEAN TANK TO CEMENT
5	6				HOOK UP TO CEMENT
6	7				CEMENTING
7	8				PULL 40 STANDS
					PLUG DOWN AT 700 AM

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

QUANTITY	MUD MATERIAL ADDED
150	CEMENT @ cc
3	CaCl2

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE U E Richmond

SECOND TOUR FROM 8 M. TO 8 P M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
400	300				W.O.C PLUG #1
300	400				RUN IN FOR PLUG.
400	500				PULL OUT 16 SINGLES. CIRCULATED.
					PUMPING OUT 7th SINGLES

DAYWORK: HOURS 8 12 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 W.D. Hawke

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	11				HAUL WATER - RUN IN 40 STANDS PIPE -
11	1130				HOOK UP TO CEMENT
1130	12				CEMENTING
					PULL OUT 25 STANDS

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

QUANTITY	MUD MATERIAL ADDED
150	CEMENT [redacted]

TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE U E Richmond

APPROVED K.R. Johnson
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 28 1964

LEASE NAME Pan-Am-Shell-Kakisa WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8				CIRC - OPENEND - WAIT on ORDERS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		2 Am	9.6	50						
		6 Am	9.7	52						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	60				CIRC. WAIT ORDERS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
		10 AM	9.4	49	4.2	3/32	13.0			
		5 PM	9.4	50						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W D Hawks

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	10				CIRC WAIT on ORDERS
10	12				DUMP AND CLEAN MUD TANK

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8 Pm	9.4	50						
		12 mn	9.5	50						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W E Richmond

APPROVED [signature] PAN AMERICAN REPRESENTATIVE

APPROVED [signature] CONTRACTOR'S REPRESENTATIVE

FORM O-19.1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big INDIAN DRILLING 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 27 19 65

LEASE NAME PAN-Am-SHELL KAKISA WELL NO. F35 FIELD WILDCAT

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	130		2390	2395	DRILLING
130	8				CIRC. WAIT FOR LOGGERS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		2Am	9.5	50						
		6Am	9.4	53				16	6 1/4	OSC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
800	900			2395	CIR. WAIT LOGGER.
900	1100				PUMP OUT
1100	430				RIG TO LOG - LOGGING - DRILLERS DEPTH 2395
430	630				RUN IN. OPEN END. LOGGERS DEPTH 2397
630	800				CIRC WAIT ORDERS.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		8Am	9.5	50						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W.D. Hawke

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8					CIRC - Open End - WAIT ON ORDERS

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		6Pm	9.6	50						
		8Pm	9.6	51						
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W E Richmond

APPROVED K.R. Coburn
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM O-19.

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 26 1964

LEASE NAME Pan-Am-Shell-Kakisa WELL NO. F35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	4		2314	2330	DRILLING
4	545				PULL OUT
545	8				CLEAN MUD TANK

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		12 MN	9.7	50				15	6¼	OSC T4-BB-D¼
								16	6¼	OSC

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.E. Rutherford

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	9				PRIME PUMP. THAW MUD LINE
9	1130				CLOSE BOP'S RUN IN. SER RIG.
1130	12		2330		CIRC. GAS OUT OF MUD.
12	12 15		2330	2332	DRILLING
12 15	2				GAS BLOWING GAS OUT OF HOLE MIX MUD
2	3		2337	1365	CIRC. LOST CIRC. MIX MUD. LOST 50BBL MUD
3	8		~~2332~~ 2337	~~2365~~ 1365	DRILLING.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
1700#	GEL	2 00 PM	9.8	45				12	6¼	OSC.
7500#	BARITE	6 00 PM	9.7	45		2/32	13.0			
10 BAGS	SAWDUST									
2 BAGS	CELOCEAL	600#	SODA ASH.							
200#	THINNASTHIN.	200#	CAUSTIC SODA							
100#	MY-LO-GEL									

DRILLER'S SIGNATURE W.D. Hawks

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12		2365	2390	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
100	MY LO GEL	6 PM	9.7	45	6.2	2/32		16	6¼	OSC
		10 PM	9.7	50	6.0	2/32	13			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.E. Rutherford

APPROVED D. Robertson PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19, 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDN T MAR 25 1964

LEASE NAME Pan-Am-Shell Wakisa WELL NO. FEE FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8		2220	2245	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
	1	2 Am	9.5	55						
		6 Am	9.5	56				14	6¼	OSC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W.E. Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM	10 30				PULL OUT. CLOSE BOP'S
10 30	12 30				RUN IN SER RIG.
12 30	8 PM		2245	2287	DRILLING. LIMESTONE
					LOST 10 BBL. MUD ON TRIP

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
500#	GEL.	4:00 PM	9.5	48	5.8	3/32	13.0	14	6¼	OSC. TT-BT-6¼
1 Sac	CELO-SEAL	6 PM	9.5	50				15	6¼	OSC
2 SX	SAWDUST	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W.D. Ward

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12		2287	2314	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
		6 PM	9.5	50						
		10 PM	9.5	52	5.8	2/32		15	6¼	OSC
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				

DRILLER'S SIGNATURE W.E. Richmond

APPROVED K.R. Cobern
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM O-127-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 24 19 54

LEASE NAME Pan-Am-Shell Kansa WELL NO. F 35 FIELD Wildcat

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
12	6		2140	2155	Drilling
6	8				Trip

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
		2 Am	9.6	52				13	6 1/4	OSC TR-BB-1
		4 Am	9.7	55						

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8:00	11:00				Finish Trip
11:00	8:00		2155	2200	Drilling.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	P.H.	BIT NO.	SIZE	KIND
1,000#	Gel	3:00	9.5	54	5.0	2/32	13.	14	6 1/4	OSC
50#	Spersene	6 PM.	9.5	53						
200#	Caustic Soda									
50#	Tannathin									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hamke.

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION. WORK PERFORMED. CONDITION OF HOLE. DIFFICULTIES ENCOUNTERED. UNUSUAL WEATHER CONDITIONS. OIL OR GAS SHOW IN MUD. ETC.
8	12		2200	2220	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
		8 Pm	9.5	50						
		10 Pm	9.5	50	5	4/32		14	6 1/4	OSC

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED K. R. Cobern
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM 9-19.7-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 23 19 62

LEASE NAME Pan-Am-Shell Kakisa WELL NO. F-35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	8		2095	2095	DRILLING

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

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE	
2 Am	9.6	57			
6 Am	9.6	50			

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
12	6 1/4	OSC1G

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 00	9 15		2095	2100	DRILLING
9 15	11 00				PULL OUT
11 00					CLOSE BOP'S. SER RIG-CHANGE HEAD IN PUMP
					SET BACK 4 DC'S.
15	2 15				RUN IN CIRC GAS OUT OF MUD
2 15	8 00		2100	2123	DRILLING

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

QUANTITY	MUD MATERIAL ADDED
05 sx	GEL.
00 sx	CAUSTIC SODA
20 sx	TANNATHIN
50 sx	SPERSENE

TIME	WT.	VIS.	FL. LOSS	CAKE	PH.
500 AM	9.5	50	3.8	2/32	13

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
12	6 1/4	OSC1G - DULL
13	6 1/4	OSC

DRILLER'S SIGNATURE W.D. Hamble

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12		2123	2140	DRILLING

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

QUANTITY	MUD MATERIAL ADDED

TIME	WT.	VIS.	FL. LOSS	CAKE	
8 Pm	9.4	9.6			
10 Pm	50	51	3.8	2/32	

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

BIT NO.	SIZE	KIND
13	6 1/4	OSC

DRILLER'S SIGNATURE W E Richmond

APPROVED K.R. Coburn
PAN AMERICAN REPRESENTATIVE

APPROVED
CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 22 1964

LEASE NAME KAKISA PAN-Am-SHELL WELL NO. F 35 FIELD WILDCAT

FIRST TOUR FROM 12 M. TO 8A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	145				START TRIP - Pump Bedding 1 Prime - CLEAN OUT
					SAWDUST FROM UNDER VALVE RUBBERS
145	4				TRIP
4	515				WORK on BOILER
515	6				TRIP
6	630				CLEAN VALVES + Prime Pumps
630	8				TRIP

DAYWORK: HOURS 6 3/4 RATE HOURS RATE HOURS W/D PIPE

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE		BIT NO.	SIZE	KIND
			9.6					11	6 1/4	OSCIG. TS-85-J
								12	6 1/4	OSCIG.

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8:00	130		2020		DRILLING LOST 40 BBL. MUD.
130	430				LOST CIRC. MIX MUD GUN TANK. HAUL WATER SEE RR
430	8:00			2060	DRILLING

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	PH	BIT NO.	SIZE	KIND
5 Sax	SAWDUST	9:00 AM	10.1	75	4.0	3/32	12.5	12	6 1/4	OSCIG
4 Sax	CEL-O-SEAL	6 PM	9.5	55	5.2	2/32	12.2			
305#	GEL									
200#	CAUSTIC SODA									
100#	TANNATHIN									

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W.D. Hamrick

THIRD TOUR FROM 8P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12		2060	2075	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
5	SAWDUST	8 PM	9.8	9.5						
1	CEL-O-SEAL	10 PM	6.0	60				12	6 1/4	OSCIG

DEVIATION INSTRUMENT	DEPTH	DEGREES OFF

DRILLER'S SIGNATURE W E Richmond

APPROVED J B Dew PAN AMERICAN REPRESENTATIVE

APPROVED CONTRACTOR'S REPRESENTATIVE

FORM O-19 1-60

PAN AMERICAN PETROLEUM CORPORATION

DAILY DRILLING REPORT

RIG NUMBER 17 CONTRACTOR'S NAME Big Indian Drilling 24 HOUR PERIOD ENDING AT MIDNIGHT MAR 21 19 54

LEASE NAME Pan-Am-Shell - Kapisa WELL NO. F 35 FIELD Wildcat

FIRST TOUR FROM 12 M. TO 8 A M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
12	1:45				MIX MUD + LOSS CIRC MAT VIS 90 WT 10 FAIR RETURNS
1:45	3:45				DRILLING
3:45	4:15				CHANGE VALVE RUBBERS
4:15	8				DRILLING
			1929	1965	

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	MY-LO-GEL	2 PM	9.0	60						
100	SPERSENE	6 AM	10.2	60				11	6¼	OSC 1G
200	TANNATHIN	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
300	CAUSTIC									
3500	BARITE 2000 GEL							DRILLER'S SIGNATURE	W.E. Richmond	

42 SACS SAW DUST

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

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8 AM	11:30		[illegible]		DRILLING
11:30	12 NOON				SER RIG, CLOSE ROPS CHANGE OIL POWER END PUMP
12 NOON	8 PM		1965	2007	DRILLING.

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

QUANTITY	MUD MATERIAL ADDED	TIME	WT.	VIS.	FL. LOSS	CAKE	R.W.	BIT NO.	SIZE	KIND
100 SK	TANNATHIN	10 PM	9.8	75	4.6	2/32	12.5	11	6¼	OSC 1G
150 SK	SPERSENE	DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
150 SK	CAUSTIC SODA									
								DRILLER'S SIGNATURE	W.D. Hamble	

THIRD TOUR FROM 8 P M. TO 12 M.

TIME FROM	TIME TO	OPERATION	DEPTH FROM	DEPTH TO	DESCRIPTION OF FORMATION, WORK PERFORMED, CONDITION OF HOLE, DIFFICULTIES ENCOUNTERED, UNUSUAL WEATHER CONDITIONS, OIL OR GAS SHOW IN MUD, ETC.
8	12		2007	2020	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	OSC 1G	6¼
		DEVIATION INSTRUMENT		DEPTH		DEGREES OFF				
								DRILLER'S SIGNATURE	W.E. Richmond	

APPROVED JBBow
PAN AMERICAN REPRESENTATIVE

APPROVED ____
CONTRACTOR'S REPRESENTATIVE