CDR CPOG CHEVRON

MILLS LAKE I-57

Drilling Authority No. 243
Date Issued Dec. 16, 1966

WELL NAME CDR CPOG Chevron Mills Lake I-57
FIELD Area:
LOCATION: Unit I Section 57 Grid 61-20; 117-30
Latitude 61-16-37.5 Longitude 117-39-36.6
From Established Reference Marker

U.W.I.R 61.27709 - 117.66167
U.W.I. No 300157612011730 0

Rig Release Date: 22-2-67
Status New field wildcat
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
16-12-66	Application for a Drilling Authority.
31-8-67	Well Completion Data.
	Well History Report.
12-10-67	Application to Amend a Drilling Authority.
31-3-67	Application to change a Well Name.
12-10 31-3-67	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale ..... Small scale .....

NANR 52-90 (7-65)

Drilling Authority No. 243

Date Issued Dec. 16/66

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT 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: COR CPOG Chevron Mills Lake I-57 (#2)

Permit No.: 3875 Lease No.:

Chevron Standard Limited (Permittee, Licensee, Lessee) Exploratory Licence No.: 1023

Central-Del Rio Oils Limited (Operator) Exploratory Licence No.: 1036

Location: Unit: I Section: 57 Grid: 61° 20', 117° 30'

Latitude: 61° 16' 37.18" N Longitude: 117° 38' 35.85" W

From Established Reference Marker: Bench Mark AK 32 T 141 R 21 W5

Universal Well Location Reference: 61.27700N; 117.65998 W

	DATE	DEPTH
Spudded	Jan. 28/67	
Suspended		
Resumed Operations		
Finished Drilling	Feb. 20/67	1932
Deepened		
Complete (gas/oil)		
Abandoned	Feb. 22/67	1932
Rig released	Feb. 23/67	

Pool(s): Wildcat

Interval(s) open to production:

Elevation: Gr. 515 K.B. 525

Rig No. 17

Drilling Contractor: Big Indian Drilling Co. Ltd.

Contractor's Business Licence No.: 24358

CASING RECORD

	Casing Size (Inches)	Grade	Weight	Amount	Set at –	Sacks of Cement and Additives
1.	7"	J-55	20#/ft.	336.94	346.24	120 sacks cement + 2% $CaCl_2$. Ran 90 sax + 2% $CaCl_2$ outside casing
2.						
3.						
4.						
5.						
6.						

GEOLOGICAL TOPS	ELEVATION	
	Depths	Sub-Sea
Hay River Shale	250	+ 275
Mills Lake Member	1204	- 679
Horn River Shale	1333	- 808
Bituminous Lmstn	1464	- 939
Loosely Bay	1494	- 969
Basal Keg River	1640	-1115
Chinchaga	1664	-1139
Green Shale	1725	-1200
Red Beds	1790	-1265
Granite Wash	1880	-1355
Pre-Cambrian	1906	-1381

CORE RECORD

From	To	Rec.	From	To	Rec.
1580	1610	30			
1610	1641	31			
1641	1672	31			

LOG RECORD

Run No.	Type of Log	From	To
1	Induction Electric Log	350	1934
1	Borehole Compensated Sonic	348	1935

IAND 52-90(2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
21-2-67	1932	1550	90 sacks - did not feel
21-2-67	400	300	35 sacks - felt at 285' Top of surface casing 5 sacks. Surface casing cut off 3' below ground level. Plate welded on and monument erected.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks
			None.

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks
			None.

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	Feb 14/67	Lonely Bay	1611	1641	*30	19 53	---	30 50	71-143	30 50	30 140	794 810	794 830	Recovered 30' drilling mud, test successful but incomplete pressure data.
2	Feb 16/67		1612	1672	117	58	112	769	731	44	75	1627 1632	807	Recovered 110' drilling mud. FIP - died in 30 minutes.

*See DST #1 final report.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CNP-4-3595	Core	1580	1672	Cores 1, 2 & 3	
C3H-2-1286	Water	1612	1672	DST #1 & #2	

PRESENT STATUS OF WELL

		(Interval.)
Oil		
Gas		(Interval.)
Dry		
Susp.		

Company CENTRAL-DEL RIO OILS LIMITED

Signed by [signature]

Title Staff Engineer

Date Dec 31 1967

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

File No.
Drilling Authority No. 243

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well ~~or Suspend Drilling~~

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

Name and number of well CDR CPOG Chevron Mills Lake I-67 (52)

Location: Unit I Section 67 Grid 61° 20'; 117° 35'

Latitude 61° 16' 37.18" Longitude 117° 39' 33.35"

From Established Reference Marker Bench Mark NE 32 T 141 R 21 W5

Universal Well Location Reference 61.27700 N 117.65986 W

Permit No. 3875 Lease No.

Chevron Standard Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed program January 28, 1967

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at

Gas at

Water at

Total Depth 1582 Date of last operations February 20, 1967

Present condition of well Dry hole.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At--	Sacks of Cement and Additives	Amount Pulled
1. 7"	20#	336.94	346.24	120 sax Portland	None.
2.				cement plus 2% $CaCl_2$	
3.				Ran 90 sax outside	
4.				casing + 2% $CaCl_2$	
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
	T.D. to 1340			Fcol.
	50'± 348			Fcol.

The following logs have been run None

Other operations proposed Plug

Operations to be carried out by Central-Del Rio Oils/ Limited Contractor Licence No. 24338

Address 736-6th Avenue S.W., Calgary, Alberta Address Calgary, Alberta

Responsible Agent in field E. J. Burger

Dated at Calgary, Alberta, this 31st Day of August 19 67

Signed by [signature] Company Central-Del Rio Oils Limited

Title Staff Engineer Operator's Exploratory Licence No. 1027C

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 20th of February 1967

Dated 12th October, 19 67

B H J Thoms
Oil Conservation Engineer

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

IAND 52-90 (5) (3-67)

File No.

Drilling Authority No. 343

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 343, concerning CDR CPOC Chevron Mills Lake I-57

(Name and Number of Well)

The following amendments are required: The cement job on the surface pipe failed. Permission is requested to move the location 29.6' East and 29.6' South to redrill the well.

The second hole to be known as CDR CPOC Chevron Mills Lake I-57 (#2)

Reasons for the amendments: Cement job failed on surface pipe.

Dated at Calgary, this 31st day of August, 19 67

Signed by [signature]

Title Staff Engineer

Company CENTRAL-DEL RIO OILS LIMITED

(For Resource Management Division use only)

APPROVED

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

Universal Well Location Reference: Lat. 61.27700° N. Long. 117.65996° W.

Date 12th October, 19 67

[signature]

Oil Conservation Engineer

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

IAND 52-90-3 (3-67)

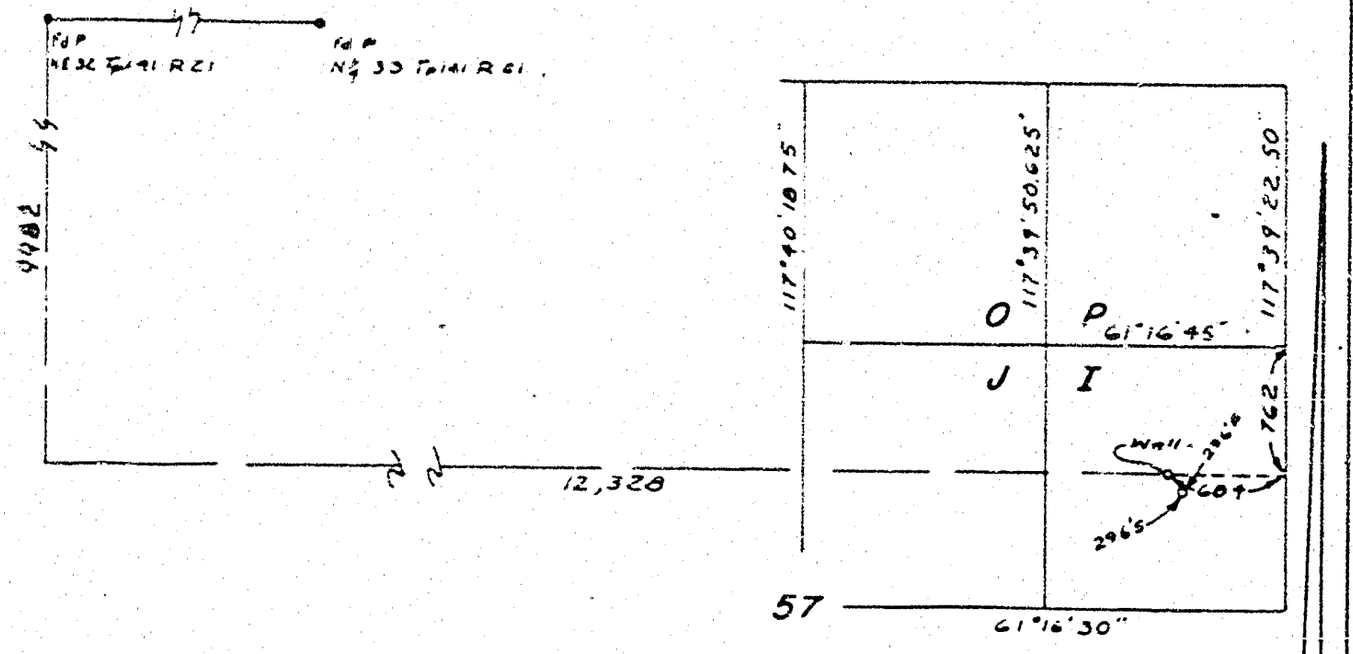
PRELIMINARY PLAN

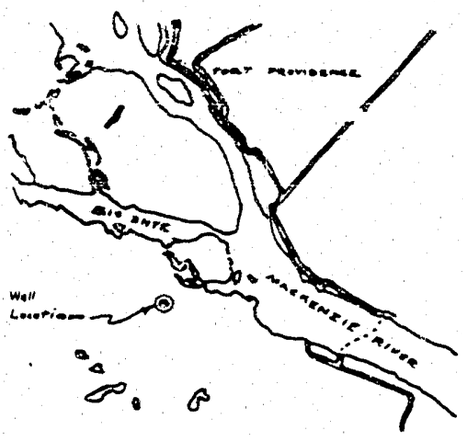
C. D. R. CPOG CHEVRON MILLS LAKE I-57

Unit I Section 57 Grid Area 61° 20'; 117° 30'

Latitude 61° 16' 37.5 Longitude 117° 39' 36.5

FAIRLAISE LAKE – DISTRICT OF MACKENZIE – NORTH WEST TERRITORIES





~ Location Plan ~
Scale 1:250,000

Universal Well Location
Reference 61.27700N (#2)
117.65996 W

61.27009N (#1)
117.66017W

N

Bearings are referred to meridian through 117°

I certify that the survey represented by this plan is correct to the best of my knowledge and was completed on the 23 day of December 1966

James P. Matthews
Dominion Land Surveyor

Witness

MIDWEST SURVEYS (ALBERTA) LIMITED

CENTRAL – DEL RIO OILS LIMITED

ELEVATION: 515 Ground

CO-ORDS. Well is located 484 Ft. W. from the 762 Ft. S. N.E. cor. UNIT I SECTION 57

TOTAL CO-ORDS.

N 101.895 } 61° LAT.
W 116.168 } 117° LONG.

AREAS:

Scale 1000 feet to 1 inch

Triangulation Station: △
Well Location: ⊕
Survey monuments found shown thus: ●
" " planted " " ○
Portions referred to outlined
Distances are in feet and decimals.

DATUM: Ground at NE. 32 T. 141 R. 21 W.5 ELEV. 502

MIDWEST SURVEYING ENGINEERING SURVEYS

C661-66

Drilling Authority No. 243

Date Issued Dec. 16, 1966

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT 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: CDR CPOG Chevron Mills Lake I-57 (#1)

Permit No.: 3875 Lease No.: —

Chevron Standard Limited (Permittee, Licensee, Lessee) Exploratory Licence No.: 1023

Central-Del Rio Oils Limited (Operator) Exploratory Licence No.: 1036

Location: Unit: I Section: 57 Grid: 61° 20'; 117° 30'

Latitude: 61° 18' 37.5" Longitude: 117° 39' 36.6"

From Established Reference Marker: Bench Mark NE 32 T 141 R 21 W5

Universal Well Location Reference: 61.27709 N 117.66017 W

	DATE	DEPTH
Spudded	Jan. 22/67	
Suspended		
Resumed Operations		
Finished Drilling	Jan. 27/67	376'
Deepened		
Complete (gas/oil)		
Abandoned	Jan. 26/67	376'
Rig released	Jan. 28/67	

Pool(s): Wildcat

Interval(s) open to production:

Elevation: Gr. 515 K.B. 525

Rig No.: 17

Drilling Contractor: Big Indian Drilling Co.

Contractor's Business Licence No.: 24358

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at –	Sacks of Cement and Additives
1. 7"	J-55	20#	252.61	261.51	100 sax Portland
2.					Cement plus 2% $CaCl_2$
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION	
	Depths	Sub-Sea
Hay River Shale	250	275

CORE RECORD – none cut

From	To	Rec.	From	To	Rec.

LOG RECORD – no logs run

Run No.	Type of Log	From	To

IAND 52-90(2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
Jan. 28, 1967	376	0	35 sacks of cement 3 " at surface Cut casing and welded on cap.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidizing, Fracing, etc.)

Date	From	To	Remarks

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

SEP 13 1967
OIL CONSERVATION ENGINEER
CALGARY, ALBERTA
NORTHERN AFFAIRS & NATIONAL RESOURCES DEVELOPMENT
FOR THE MINISTER OF NORTHERN AFFAIRS & NATIONAL RESOURCES DEVELOPMENT
NORTHERN DEVELOPMENT DIVISION
Forestry & Yukon Territory

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks

PRESENT STATUS OF WELL

Oil		(Interval.)
Gas		(Interval.)
Dry		
Susp.		

Company CENTRAL-DEL RIO OILS LIMITED

Signed [signature]

Title Staff Engineer

Date Aug 31 1967

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

File No.
Drilling Authority No. 363

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well ~~or Suspend Drilling~~

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

Name and number of well CDR CPOG Chevron Mills Lake I-87 (#1)
Location: Unit I Section 87 Grid 61° 30'; 117° 30'
Latitude 61° 14' 37.8" Longitude 117° 29' 20.4"
From Established Reference Marker Datum North NE 32, T 141, R 21 W6
Universal Well Location Reference 61.27709 N 117.48917 W
Permit No. 3073 Lease No.

Chevron Standard Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed program January 26, 1967

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at
Gas at
Water at
Total Depth 378 Date of last operations January 23, 1967
Present condition of well Dry hole.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 7"	20#	282.61	281.81	100 sax Portland	None
2.				cement plus 2% CaCl2	
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	Surface to T.D.	Bay River Shale	35 sacks	Fill hole with cement, cut off casing and weld on plate.

The following logs have been run None
Other operations proposed None

Operations to be carried out by Central-Del Rio Oils Limited Contractor Licence No. 24358
Address 736-8th Avenue S.W., Calgary, Alberta Address 1318 - 8th Ave. S.E.
Responsible Agent in field R. J. Berger
Dated at Calgary, Alberta, this 31st Day of August 19 67
Signed by [signature] Company Central-Del Rio Oils Limited
Title Staff Engineer Operator's Exploratory Licence No. 1056

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 27th January 1967

Dated 12th October, 19 67

[signature]
Oil Conservation Engineer

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

IAND 52-90 (5) (3-67)

File No.

Drilling Authority No. 243

Department of Indian Affairs and Northern Development

Resource & Economic Development Group

~~DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES~~

~~RESOURCE MANAGEMENT DIVISION~~

Application to Amend a Drilling Authority

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

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend Drilling Authority No. 243, concerning CDR CPOG Chevron Mills Lake I-57

(Name and Number of Well)

The following amendments are required: To move location 30 feet south & 30 feet east of presently approved location.

Reasons for the amendments: After drilling out the shoe joint and drilling to 349' it became apparent that the surface pipe was not properly bonded to the ground. The hole had to be abandoned and the rig skidded to the new location.

Dated at CALGARY, Alberta, this 23rd day of MARCH, 19 67.

Signed by ORIGINAL SIGNED BY J. M. GIBSON

Title Staff Engineer

Company Central-Del Rio Oils Limited

(For Resource Management Division use only)

APPROVED

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

Date 31st March, 19 67

(for) Oil Conservation Engineer

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

NANR 52-90-3 (7-65)

File No.

Drilling Authority No. 243

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

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

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

Name and number of well CDR CPOG Chevron Mills Lake I-57

Location: Unit I 37.5" Section 57 Grid

Latitude 61° 16' [illegible]" Longitude 117° [illegible] 39' 36.6"

From Established Reference Marker

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

Well is expected to produce from The Lonely Lane formation at a depth of about 2700 feet.

Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 3875 Lease No. Acreage 61596

Permittee, licensee, or lessee Chevron Standard Limited

Exploratory Licence No. 1023

Surface owned by Crown or

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

Petroleum and natural-gas rights owned by Crown

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

Casing (Size O.D. (Inches))	Weight (Lb./Ft.)	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 7"	20#	J-55	Seamless	New	250	110
2. 4½"	9.5#	J-55	Seamless	New	2700	75*
3.						
4. *If required for well completion.						
5.						

Expected water, gas, and oil horizons and type of control equipment Lonely Lane, Middle Devonian
To be controlled by adequately weighted drilling mud and blowout preventers until production casing is set or the well abandoned.

Well will be drilled with (Rotary) Rig No. 17 by Big Indian Drilling Co. Ltd.
(Cable) (Drilling Contractor or company)

1318 - 9th Avenue S.E., Calgary, Alberta

Responsible agent of applicant:— Contractor's Business Licence No. 24358

At well J. M. Gibson At registered office J. M. Gibson

Address 736-8th Ave. S.W., Calgary Address 736-8th Ave. S.W., Calgary, Alberta

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

Dated at Calgary, Alberta, this 13 day of December 19 66

Signed by [signature] Company Central-Del Rio Oils Ltd.

Title Staff Engineer Operator's Licence No. 1036

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—
The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

Dated 16th December 1966

[signature]
Oil Conservation Engineer

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

NANR 52-90-1 (7-65)

UNIVERSAL WELL LOCATION REFERENCE: 61.27709° N. 117.66167° W.

CENTRAL-DEL RIO OILS LIMITED

26-11-4-3

WELL HISTORY REPORT

CDR CPOG CHEVRON MILLS LAKE I-57

(#1) + (#2)

"Developing Canada's Resources"

CDR CPOG CHEVRON MILLS LAKE I-57 (#1)-(#2)

I N D E X

Compiled by: R. J. Burger and J. M. Gibson

Approved by: Meeleban

[redacted]

WELL HISTORY REPORT

CDR CPOG CHEVRON MILLS LAKE I-57 (#1) & (#2)

[redacted]

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SECTION I

SUMMARY OF WELL DATA

PAGES 1-4

ooo

CENTRAL-DEL RIO OILS LIMITED

WELL HISTORY REPORT

CDR CPOG CHEVRON MILLS LAKE I-57 (#1) + (#2)

Section I - Summary of Well Data

(a) Well name and number - CDR CPOG Chevron Mills Lake I-57 (#1) + (#2)

(b) Permittee, Licencee or Lessee - Chevron Standard Limited

(c) Name of Operator - Central-Del Rio Oils Limited

(d) Location - I-57-61-20-117-30

(e) Co-ordinates - Not applicable

(f) Permit or Lease Number - Permit No. 3875

(g) Drilling Contractor - Big Indian Drilling Co. Ltd. Rig No. 17

(h) Drilling Authority - 243 issued December 16, 1966

(i) Classification - Wildcat

(j) Elevation - Ground - 515' K. B. - 525'

(k) Date spudded - January 22, 1967

(m) Total depth - 1932 feet (driller)

(n) Well Status - Abandoned

(o) Rig Released - February 22, 1967.

(p) Hole Size - 9⅞" + 6¼"

(q) Casing - 7" - 20" J-55, ST&C surface casing set at 346'.

SUMMARY OF WELL DATA

Well Name:	CDR CPOG CHEVRON Mills Lake I-57 (#1)
Location:	Unit I Section 57, Grid 61° 20' N., 117° 30' W.
Ground Elevation:	515' K.B. 525'
Final Total Depth:	376'
Classification:	Wildcat.
Drilling Contractor:	Big Indian Drilling Co. Ltd. Rig #17.
Tool Push:	Wilfred Neerie
Equipment:	Draworks: Gardner Denver #2000 Truck Mounted; Power off Cummins. 220 PH truck motor. Pump: Gardner Denver F X D power off Cummins 220 H.P. truck motor. Derrick: Gardner Denver 60' Mast. Substructure: 6' high made from LOW-BOY.
Operator:	Central Del Rio Oils Ltd.
Spudded:	7:30 A. M. January 22, 1967.
Rig Released:	Skidded Rig 42' South East.
Status:	Junked and abandoned. (Surface casing cement failed)
Logs:	Not Run.
Surface Casing:	Ran 6 joints 7" J 55 8 rd St. & C. Rge. 3 new Japanese casing. Tallied 252.61' set @ 261.51' K.B. with/100 sax Portland cement plus 2 1/2% $CaCl_2$. Ran Weatherford guide shoe, insert flat and two centralizers. Thread LOC bottom two joints. Plug down @ 5:20 P.M. Jan. 24/67; with 1,000 p.s.i. Good cement returns, flat held. Float @ 219.87' K.B.; K.B. to ground 9.6'; K.B. to drilling flange 8'.1
Plugs:	Plug #1 376' - 211' 25 sax cement Plug down @ 12:15 A.M. Plug #2 3 sax cement @ surface cut off casing 3' below ground welded on steel plate.

SUMMARY OF WELL DATA

Well Name:	CDR CPOG CHEVRON MILLS LAKE I-57 (#2)
Location:	Unit 1 Section 57, Grid 61° 20' N., 117° 30' W.
Co-ordinates:	Rig skidded 42' south east of #1 hole.
Elevation:	Ground: 515' K.B. 525'
Final Total Depth:	Driller: 1932' Schlumberger: 1934'
Classification:	Wildcat.
Drilling Contractor:	Big Indian Drilling Co. Ltd. (Rig #17)
Tool push:	Wilfred Neerie
Drilling Supervisor:	Ted Mulligan
Equipment:	Draworks: Gardner Denver #2000 truck mounted; power off Cummins 220 H.P. truck motor. Pump: Gardner Denver F X D power off Cummins 220 H.P. Truck motor. Derrick: Gardner Denver 60' mast. Substructure: 6' high made from low boy.
Operator:	Central Del Rio Oils Ltd.
Spudded:	10:30 P.M. Jan. 28, 1967.
Rig Released:	4:00 A.M. Feb. 22/67.
Status:	Dry and abandoned.
Logs:	Schlumberger Induction Electrical Log 350-1933' Schlumberger Borehole Compensated Sonic Log 348-1933'
Surface Casing:	Ran 8 joints 7" 20# J 55 Rge. 3 Japanese casing tallied at 336.94 and set at 346.24' K.B. with 120 sacks normal Portland Canadian cement plus 2% $CaCl_2$. Ran 9 bbls. pipe sweep ahead of cement. Plug down @ 1:52 A.M. cemented by B.J. Ran 10 scratchers on bottom 120' with 2 centralizers. No cement returns. Ran 1 1/4" pipe along side casing cement @ 135' Ran 90 sacks cement and 2% $CaCl_2$. Returns to surface 2:45 P.M. Feb. 2/67. Dug out cellar and mixed 16 sacks in cellar.
Analyses:	**Water - CBH-2-1286** **Core - CMP-4-3595**

SUMMARY OF WELL DATA (CONT'D)

DRILL STEM TESTS:

Test #1

1611' to 1641' (Lonely Bay)
Pre-flow 32 minutes, reset, pre-flow 63 minutes.
Shut-in 19 minutes, then valve open 30 minutes.
No initial puff, no air blow to surface.

I.H.P.	510	F.H.P.	630	(Field Figures)
I.S.I.P.	50	F.S.I.P.	-	
I.F.P.	50	F.F.P.	140	

Temperature: 80o F. at bottom hole.
Recovery: 30' drilling mud.
Test successful but incomplete pressure data.

Test #2

1612 to 1672' (Keg River Dolomite)
Pre-flow 10 minutes; I.S.I. 60 minutes; valve open 120 minutes; F.S.I. 120 minutes. Faint initial puff. Died in 20 seconds. Same results on initial flow period.

I.H.P.	820	F.H.P.	830	
I.S.I.P.	770	F.S.I.P.	750	(Field Figures)
I.F.P.	30	F.F.P.	60	

Temperature: 68° F., at bottom hole.
Recovery: 110' drilling mud.
Test mechanically satisfactory.

Core Record:

Diamond Core #1	1580-1610' Cut 30' Recovered 30'
Diamond Core #2	1610-1641' Cut 31' Recovered 31'
Diamond Core #3	1641'1672' Cut 31' Recovered 31'

ABANDONMENT PLUGS:

Plug #1	1932'-1550' 90 sacks (No feel)
Plug #2	400' - 300' 35 sacks (felt at 285')
Plug #3	Top of surface casing 5 sacks.
	Surface casing cut off 3' below ground and plate welded on.

∞

SECTION II

GEOLOGICAL SUMMARY

PAGES 5-10

∞

FORMATION TOPS

CDR CPOG CHEVRON MILLS LAKE I-57 (#2)
Unit 1 Sec. 57, Grid 61° 20' N., 117° 30' W.

Ground: 515'
K.B.: 525'

Electric Log Top	Depth	Subsea
DEVONIAN		
Hay River Shale	250	(275')
Mills Lake Member	1204'	(-679')
Horn River Shale	1333'	(-808')
Bituminous Limestone	1464'	(-939')
Lonely Bay	1494'	(-969')
Basal Keg River (Dolomite Platform)	1640'	(-1115')
Chinchaga	1664'	(-1139')
Green Shale	1725'	(-1200')
Red Beds	1790'	(-1265')
Granite Wash	1880'	(-1355')
Pre-Cambrian	1906'	(-1381')
Final Total Depth		
Driller	1932'	(-1407')
Schlumberger	1935'	(-1410')

SAMPLE DESCRIPTIONS

CDR CPOG CHEVRON 1-57 (#2)
Unit 1, Section 57, Grid 61° 20' N., 117° 30' W.

K.B. 515'
Ground: 525'

0-50' CLAY & SAND; clay light brown. Sand loose unconsolidated fine to medium grained poorly sorted some pebbles quartzite, granite, hornblende.

50-70' PEBBLES & FRAGMENTS. LIMESTONE light grey dense, GRANITE pink hornblende black.

70-180' CLAY light brown and light grey abundant pebbles and fragments. LIMESTONE GRANITE as above, unconsolidated.

180-250' PEBBLES & FRAGMENTS; LIMESTONE light grey, dense. GRANITE pink hornblende and feldspar pink, unconsolidated.

TOP HAY RIVER SHALE 250' (275')

250-300' SHALE light grey slightly greenish slightly micro-micaceous soft calcareous.

300-370' SHALE light grey and grey green micro-micaceous calcareous.

370-470' SHALE light grey green slightly calcareous slightly micro-micaceous.

470-600' SHALE light grey green slightly micro-micaceous calcareous.

600-690' SHALE light grey green slightly calcareous slightly micro-micaceous some silty in part, some light grey soft shale.

690-830' SHALE light grey slightly greenish micro-micaceous, calcareous.

830-900' SHALE as above.

900-980' SHALE grey green micro-micaceous calcareous some SHALE black and grey black bituminous flecked slightly calcareous. Trace PYRITE.

980-1010 SHALE grey green and light grey micro-micaceous minor SHALE grey black and dark grey.

1010-1060 SHALE light grey some slightly brownish some grey black bituminous.

1060-1070 SHALE grey green micro-micaceous minor SHALE grey black bituminous micro-micaceous.

1070-1130 SHALE grey green micro-micaceous. Some coaly and bituminous flecked.

1130-1180 SHALE (40%) dark grey non-calcareous much SHALE (60%) light grey and grey green SHALE calcareous micro-micaceous.

1180-1200 SHALE light grey and grey green micro-micaceous. Some SHALE dark grey.

TOP MILLS LAKE MEMBER 1204' (-679')

1200-1220 LIMESTONE light grey argillaceous micro-crystalline in part, dense. Much SHALE light grey and grey green.

1220-1260 SHALE dark grey and grey black a slightly calcareous micro-micaceous. Minor LIMESTONE light grey micro-crystalline dense.

1260-1310 SHALE dark grey and grey black, calcareous micro-micaceous.

TOP HORN RIVER SHALE 1333' (-808')

1310-1350' SHALE dark grey and grey black bituminous some slightly brownish.

1350-1400 SHALE grey black bituminous some slightly brownish; much light grey and grey green SHALE micro-micaceous.

1400-1450 SHALE black bituminous some dark brown bituminous micro-micaceous.

1450-1460 SHALE as above some LIMESTONE dark brown bituminous.

TOP BITUMINOUS LIMESTONE 1464' (-939')

1460-1490 LIMESTONE dark brown bituminous micro-crystalline slightly granular in part dense argillaceous slightly fossiliferous (fish teeth?)

TOP LONELY BAY 1494' (-969')

1490-1510' LIMESTONE dark grey and slightly brownish slightly chalky in part, micro-micaceous argillaceous fossiliferous (crinoid fragments and fish fragments) much Calcite infilling and replacement. Tight. (Skeletal Micrite)

1510-1530 LIMESTONE light brownish to dark brown micro-crystalline dense hard sparingly fossiliferous.

1530-1540 LIMESTONE light brownish some dark brown micro-crystalline dense hard slightly fossiliferous.

1540-1560 LIMESTONE light brown micro-crystalline dense some buff, slightly chalky dense, slightly fossiliferous fragmental.

1560-1580 LIMESTONE medium brown micro-crystalline dense hard, some slightly fine fossiliferous and fine fragmental.

Diamond Core #1 1580-1610' Cut 30' Recovered 30'
Penetration Rate: 31, 19, 20, 30, 18, 17, 15, 20, 14, 20, 50, 22, 31, 42, 46, 34, 27, 28, 49, 49, 36, 37, 37, 34, 32, 37, 40, 40, 38, 40.

30.0' LIMESTONE light grey and grey brownish micro-crystalline to some fine crystalline dense; occasional styolites through out core. Some scattered mottled brownish solution breccia. Core is slightly fossiliferous . Core has horizontal bedding and banding. No apparent porosity or staining present.

Diamond Core #2 1610-1641' Cut 31' Recovered 31'
Penetration Rate: 35, 17, 23, 25, 23, 20, 10, 17, 18, 28, 25, 25, 23, 25, 34, 30, 28, 24, 18, 8, 6, 12, 11, 9, 10, 10, 6, 4, 5, 5.

5.5' LIMESTONE light grey and light brownish micro-crystalline dense. Core has mottled dark brown solution breccia appearance.

6.0' LIMESTONE light grey fine crystalline fair to some good pin point and fine vuggular porosity light brown oil stained and oil saturated bright yellow saturated.

13.0' LIMESTONE light grey and dark grey micro-crystalline to crypto crystalline dense hard brittle.

4.5' LIMESTONE light brown and light greyish fine crystalline scattered poor to fair fine vuggular and pin point porosity. Oil stained and oil saturated, dull yellow fluorescence.

Diamond Core #3 1641-1672' Cut 31' Recovered 31'
Penetration Rate: 12, 12, 13, 18, 25, 15, 15, 15, 10, 31, 9, 14, 12, 12, 8, 5, 9, 11, 10, 11, 13, 13, 10, 14, 11, 24, 15, 16, 7, 22, 24.

<u>TOP BASAL KEG RIVER PLATFORM DOLOMITE 1640' (-1115')</u>

6.0' DOLOMITE brown micro-crystalline, scattered poor pin porosity, brown oil saturated dull yellow fluorescence.

1.0' DOLOMITE grey micro-crystalline dense.

1.8' DOLOMITE brown micro-crystalline scattered poor pin point porosity brown oil saturated dull yellow fluorescence.

0.6' DOLOMITE grey micro-crystalline dense.

2.0' DOLOMITE brown micro-crystalline scattered poor pin point porosity brown oil saturated dull yellow fluorescence.

1.8' DOLOMITE light grey micro-crystalline dense.

1.0' DOLOMITE brown micro-crystalline scattered poor pin point porosity brown oil saturated dull yellow fluorescence.

0.8' DOLOMITE light grey micro-crystalline dense.

8.6' DOLOMITE brown and dark brown micro-crystalline scattered poor porosity tight, dull yellow fluorescence.

5.7' ANHYDRITE & DOLOMITE light grey micro-crystalline to fine crystalline dense. DOLOMITE has scattered poor pin point porosity.

2.4' ANHYDRITE light grey micro-crystalline to fine crystalline slightly viterous.

Core has 20' poor pin point porosity.

TOP CHINCHAGA 1664' (-1139')

1672'1690' ANHYDRITE grey white and light brown micro-crystalline to crypto-crystalline dense.

1690-1700 DOLOMITE & ANHYDRITE
DOLOMITE dense light brown and grey crypto-crystalline argillaceous.
ANHYDRITE white micro-crystalline, chalky in part.

1700-1720' ANHYDRITE white crypto-crystalline dense slightly viterous.

1720-1730' Sample missing.

TOP GREEN SHALE 1725' (-1200')

1730-1750' DOLOMITE light grey and light brown micro-crystalline argillaceous dense, some ANHYDRITE white micro-crystalline dense.

1750-1760' ANHYDRITE grey and white micro-crystalline to crypto-crystalline dense, some light green SHALE (40%).

1760-1780' SHALE light grey and grey greenish dolomitic some ANHYDRITE grey white micro-crystalline dense.

TOP RED BEDS 1790' (-1265')

1780-1790' SANDSTONE white and rust red, medium to coarse grained quartz grains sub-angular to rounded frosted, tight cemented non-calcareous some pink feldspar grains and fragments.

1790-1830 ANHYDRITE & SHALE rust red some white anhydrite crypto-crystalline dense. Some grey green SHALE.

1830-1870' SHALE rust red non calcareous minor SHALE grey green. Trace ANHYDRITE white crypto-crystalline, dense.

1870-1880' SHALE rust red soft.

TOP GRANITE WASH 1880' (-1355')

GRANITE WASH (40%) quartz biotite hornblende and feldspar fragments and coarse chips. No staining no apparent porosity.

1880-1890 GRANITE WASH quartz white coarse grained angular feldspar pink, biotite, black fragment and chips; tight.

1890-1900' GRANITE WASH as above tight.

TOP PRE-CAMBRIAN 1906' (-1381')

1900-1920' GRANITE(WASH ?) quartz white clear coarse angular fragments, abundant biotite and mica flakes, some feldspar pink, tight; no staining.

1920-1932' GRANITE fragments and chips quartz clear angular, abundant black biotite and mica flakes. Minor pink feldspar and black hornblende.

Final total depth

Driller	1932' (-1407')
Schlumberger	1934' (-1410')

OOO

SECTION III

ENGINEERING SUMMARY

PAGES 11-17

OOO

DRILL STEM TEST REPORT

Test No. 1

Date: Feb. 14/67.

Well Name: CDR CPOG CHEVRON MILLS LAKE I-57

Testing Co. B.J. Operator: Henry Blanchette

O.D. Packer Rubber: 5 1/2" Hole Size: 6 1/4" Choke Size: 1/2"

Length of Tail Pipe: 30' Drill Pipe Size: 3 1/2" Perforations: 16'

Interval Tested: 1611'1641' Formation: Lonely Bay

Mud: Weight 9.5 Viscosity 60 Water Loss 7.5 P.H. 8

Time: Tool started in hole 11 A.M. Tool on Bottom: 1:00 P.M.
Tool opened 1:32 P.M. Tool closed 3:09 P.M.
Tool pulled loose 4 P.M. Tool out of Hole 7:30 P.M.

Pressures:

I.H.P.	510	F.H.P.	630
I.S.I.P.	50	F. .I.P.	-
I.F.P.	50	F.F.P.	140

Pre-flow 32 minutes, reset, pre-flow 63 minutes. Shut-in 19 min. then valve opened 30 minutes.

Remarks: No initial puff, no air blow, reset after 32 minutes with same result (no blow) tool open 63 minutes. Pre-flow total 95 mins. Shutin 19 minutes. Then valve opened 30 minutes for flow period. No air blow or surface indication. Tool pulled loose because did not know if sufficient weight to open tool or if tool plugged.

Recovery: 30' drilling mud.

Test successful but incomplete pressure data.

Temperature: 80° F.

R. J. Burger, Geologist

BJ HUGHES

TESTING REPORT

DRILL-STEM TEST DATA

Well Name	C.D.R. CPOG Chevron	Test No	One
Well Number	Mills Lake 1-57	Zone Tested	Keg River
Company	Central Del Rio Oils	Interval	1011-1641
Comp Rep	T. Mulligan / Tester H. Blanchette	Date	February 14/67

Preflow 33 mins ISI 19 mins Flow 30 mins FSI ____ mins.

Type of Test Bottom Hole

	REC No 1232 12 HR CLOCK	REC No 2065 12 HR CLOCK	REC No ____ HR CLOCK
DEPTH	1613	1629	
Initial Hydro Mud Press		794	
Initial Shut-In Press		30	
Initial Flow Press		30	Preflow 25
Final Flow Press		30	
Final Shut-In Press		71-143	
Final Hydro Mud Press		794	

Mud Drop Nil Fluid Loss 7.5 Mud Weight 9.5

Viscosity 60 Temperature 80°F Net Pay Tested 12'

Top Packer Depth 1011 Bottom Packer Depth ____ Total Depth 1641

Drill Pipe Size 3½" IF Wt. 13.3 Drill Collar I.D. 2" Ft. Run 148

Surface Choke Size 1" Bottom Choke Size ½" Main Hole Size 6½"

Anchor Size 4 3/4" CD Rat Hole Size ____ Feet of Rat Hole ____

Cushion Amount ____ Type ____ Rubber Size 5½"

Fluid Recovery Total Feet 30

Recovered 30 Feet of Drilling Mud.

Recovered ____ Feet of ____

Gas Recovery How Measured ____

____ mins. Press Rdg. ____ = ____ MCF/Day

____ mins Press Rdg. ____ = ____ MCF/Day

____ mins. Press Rdg. ____ = ____ MCF/Day

____ mins. Press Rdg. ____ = ____ MCF/Day

REMARKS: No Air Blow on Preflow.
Reset, after 33 minutes same results.
Attempt was made to reverse shut-in tool into open position after final shut-in was taken, however, the flow stage was missed and another shut-in period took place.
Due to recorder failure, the pressure of Rec #1232 appears to be erroneous.

BJ
BORG WARNER

TESTING REPORT

CO SUB

SHUT IN TOOL

RPS

HYDRAULIC TOOL

JARS

RECORDER(S)

SAFETY JOINT

BY PASS SUB

PACKER

1. PACKER DEPTH 1614

PACKER

2. PACKER DEPTH

ANCHOR

BLANK OFF SUB/BY PASS SUB

RECORDER

3. PACKER DEPTH

PACKER

4. PACKER DEPTH

PACKER

ANCHOR--SPECIFY

Recorder 4.75

T.P. 11.00

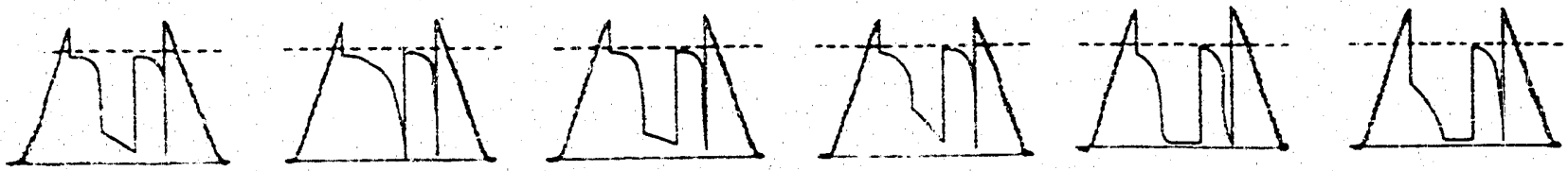
Recorder 4.75

T.P. 5.00

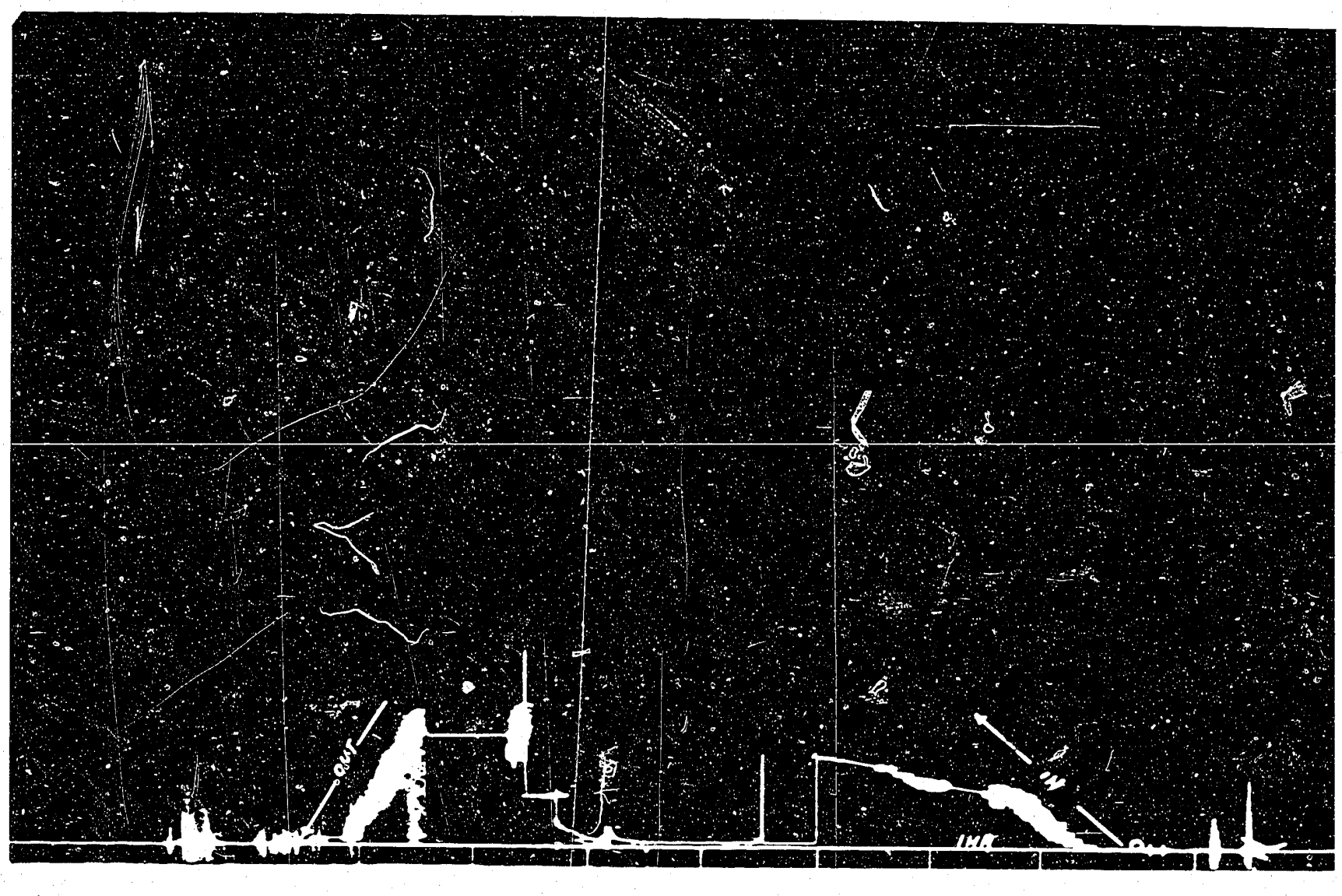
BULLNOSE 3.15

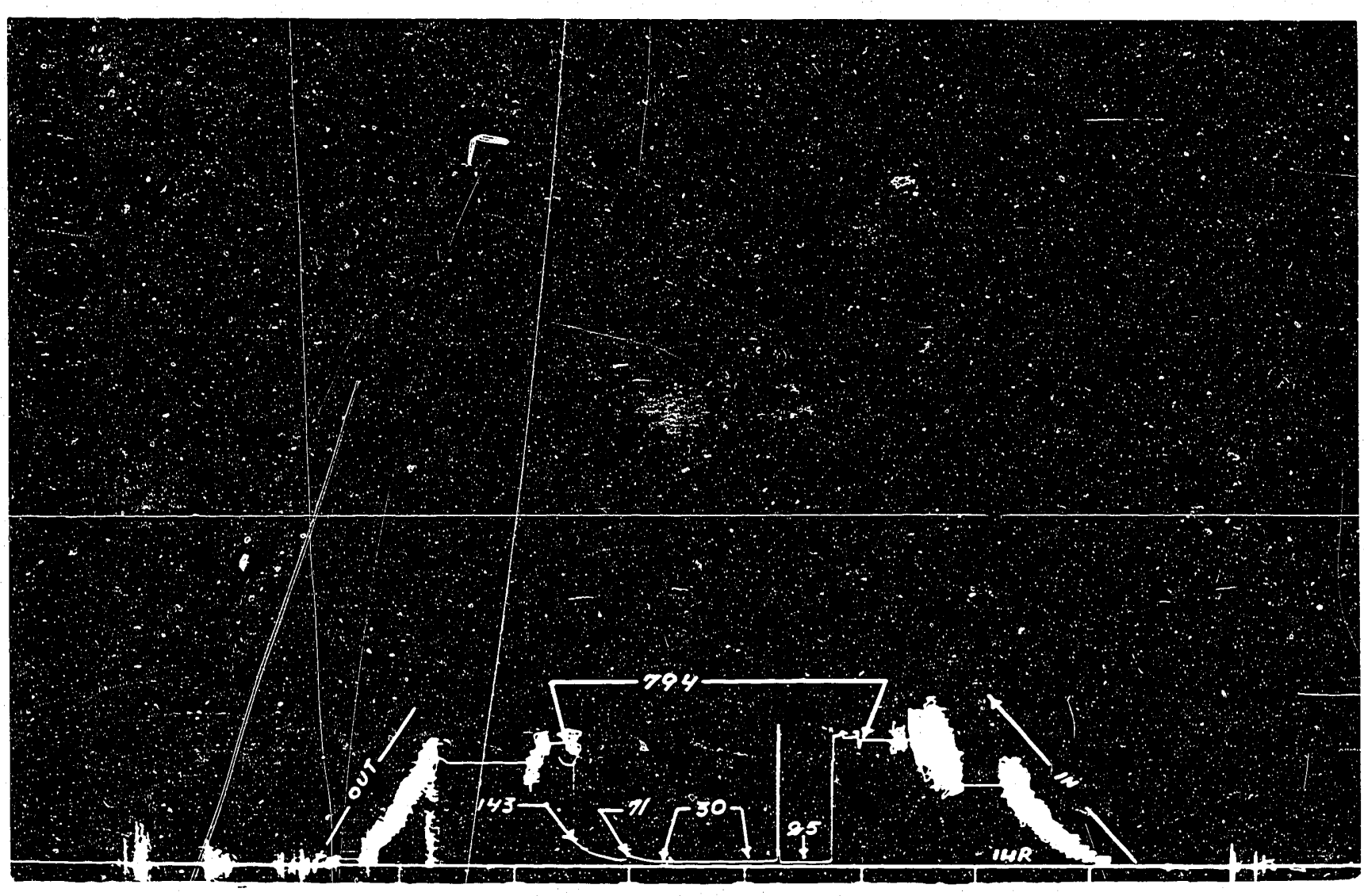
TOTAL DEPTH 1641

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT


OUT
IN
IHR


794
OUT
143
71
30
25
IN
IHR

DRILL STEM TEST REPORT

Test No. 2
Date: Feb. 16/67.

Well Name: CDR CPOG CHEVRON MILLS LAKE I-57

Testing Co. D.J. Service Operator: Henry Blanchette

O.D. Packer Rubber: 5 1/2" Hole Size 6 1/4" Choke Size 1/2"

Length of Tail Pipe 60' Drill Pipe Size: 3 1/2" Perforations: 18'

Interval Tested: 1612'1672' Formation: Key River Dolomite

Mud: Weight 9.3 Viscosity 70 Water Loss 7.7 P.H. 8.0

Time: Tool started in hole 5:30 A.M. Tool on Bottom: 8:30 A.M.
Tool opened: 8:51 A.M. Tool Closed: 2:01 P.M.
Tool Pulled Loose: 2:10 P.M. Tool out of hole: 4 P.M.

Pressures:

I.H.P.	820	F.H.P.	830
I.S.I.P.	770	F.S.I.P.	750
I.F.P.	30	F.F.P.	60

Pre-flow 10 minutes I.S.I. 60 minutes. Valve open 120 minutes.
Final shut in 120 minutes.

Remarks: Faint initial puff. Died in 20 seconds same results on initial flow.

Recovery: 110' drilling mud.

Bottom Hole Temperature: 88°

Test Mechanically satisfactory.

R. J. Burger, Geologist.

BJ

TESTING REPORT

DRILL-STEM TEST DATA

Well Name	Can Pac Chevron	Test No	Two
Well Number	Mills Lake 1-57	Zone Tested	Keg River
Company	Central Del Rio Oils	Interval	1612-1672
Comp Rep	T. Mullican / Tester H. Blanchette	Date	Feb. 16, 1967

Preflow 10 mins. ISI 59 mins. Flow 117 mins FSI 112 mins.

Type of Test Bottom Hole	REC No 1251 12 HR. CLOCK	REC. No. 888 12 HR. CLOCK	REC No ____ HR. CLOCK
DEPTH	1614	1632	
Initial Hydro Mud Press	805	807	
Initial Shut-In Press	770	769	
Initial Flow Press	30	44	
Final Flow Press	65	75	
Final Shut-In Press	724	721	
Final Hydro Mud Press	805	807	

Mud Drop Nil Fluid Loss 7.9 Mud Weight 9.4

Viscosity 70 Temperature 88°F Net Pay Tested 30'

Top Packer Depth 1612 Bottom Packer Depth ____ Total Depth 1672

Drill Pipe Size 3½" IF Wt. 13.3 Drill Collar I.D. 2" Ft. Run 148'

Surface Choke Size 1" Bottom Choke Size ½" Main Hole Size 6¼"

Anchor Size 4 3/4"OD Rat Hole Size ____ Feet of Rat Hole ____

Cushion Amount ____ Type ____ Rubber Size 5½"

Fluid Recovery Total Feet 110

Recovered 110 Feet of Drilling Mud.

Recovered ____ Feet of ____

Gas Recovery How Measured ____

____ mins. Press Rdg. ____ = ____ MCF/Day

____ mins. Press Rdg. ____ = ____ MCF/Day

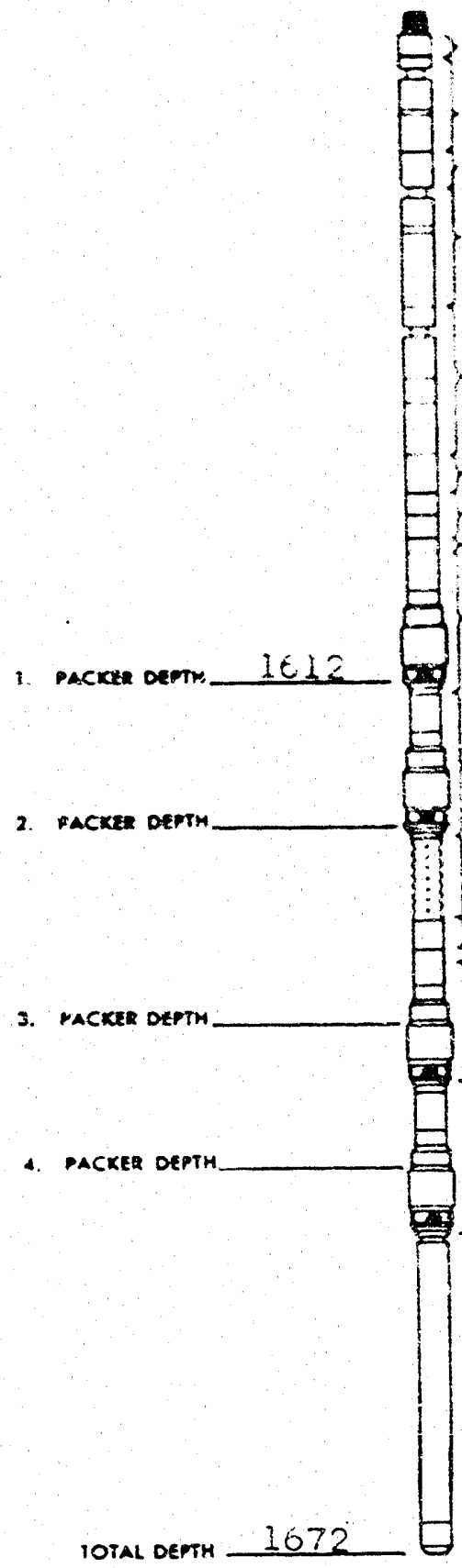
____ mins. Press Rdg. ____ = ____ MCF/Day

____ mins. Press Rdg. ____ = ____ MCF/Day

REMARKS: Faint initial puff, died in 20 seconds.
Same result on initial flow.
No damage report due to nature of recovery.

BJ HUGHES HUGHES

TESTING REPORT

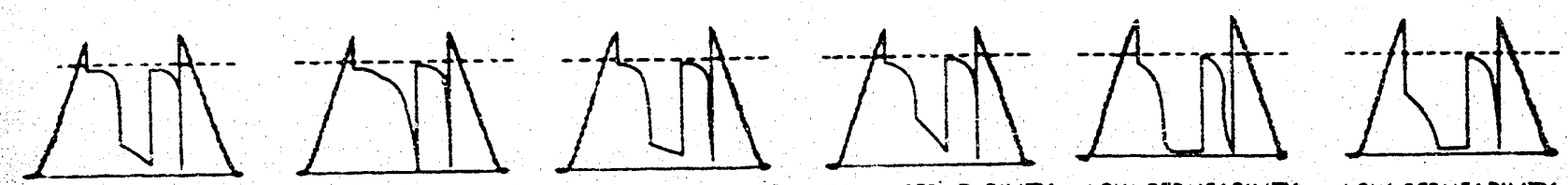


1. PACKER DEPTH 1612
2. PACKER DEPTH
3. PACKER DEPTH
4. PACKER DEPTH

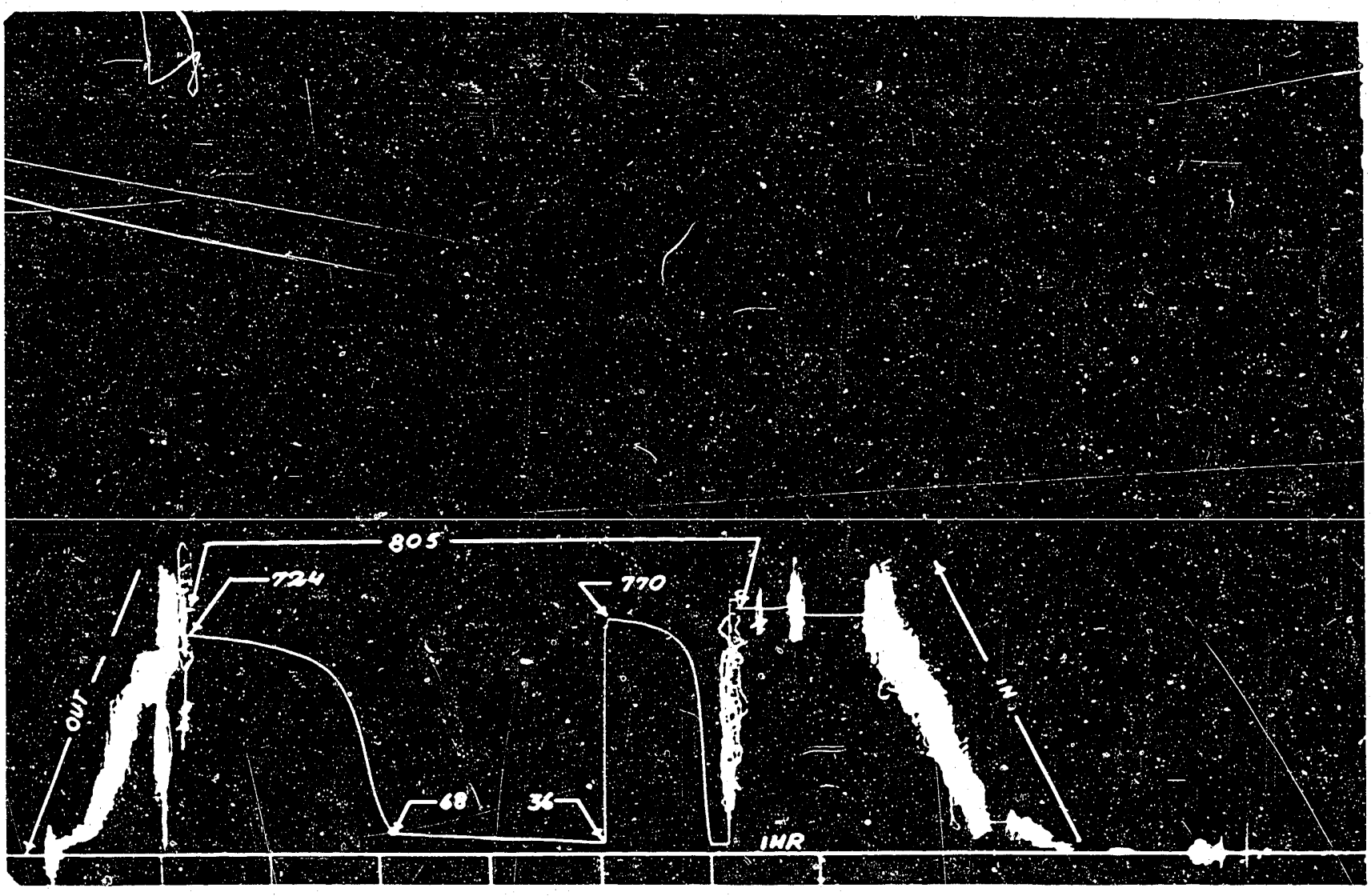
TOTAL DEPTH 1672

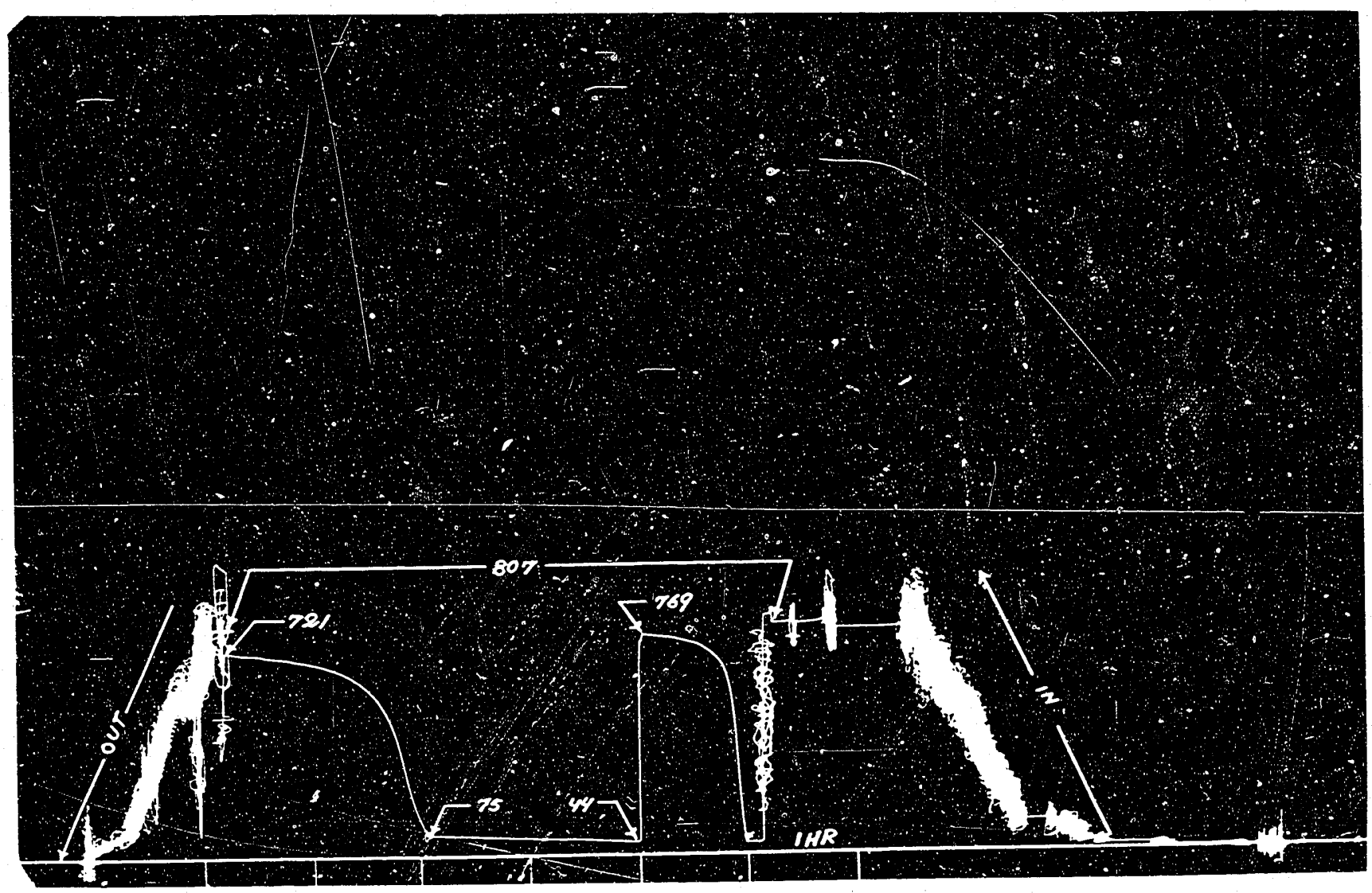
POS	1.00
CO SUB	1.05
SHUT IN TOOL	5.34
RFS	3.65
HYDRAULIC TOOL	7.01
JARS	4.96
RECORDER(S)	
SAFETY JOINT	1.74
BY PASS SUB	
PACKER	5.00
	1.00
PACKER	
ANCHOR	
BLANK OFF SUB/BY PASS SUB	
RECORDER	
PACKER	
PACKER	
ANCHOR—SPECIFY	
Rec.	4.75
Perfs.	14.00
Rec.	4.75
Perfs.	1.00
D.P.	31.27
BULLNOSE	3.15

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT


805
724
770
OUT
IN
68
36
1HR


807
721
769
OUT
IN
75
44
1HR

SURVEY RECORD

Depth	Deviation
97'	1/2 °
130'	1/4
185'	1/2
267'	3/4
340'	1 1/4

BIT RECORD

Bit #	Size	Make	Type	Serial #	Depth Out	Feet	Hours	Accum. Hours
1A	9 7/8	Smith	D.T.	66896	177	177	7	7
2A	9 7/8	Smith	D.T.	66889	267	90	7 1/4	14 1/4
1	6 1/4	Smith	D.T.	38726	376	109	2	16 1/4

MUD RECORD

Caustic	250 lbs.
Sawdust	3 sax
Super Col	5000 lbs.
Mago Gel	6700 lbs.
Salt Water Gel	2000 lbs.
Plaster	200 lbs.

SURVEY RECORD (#2)

Depth	Deviation	Depth	Deviation
70 '	1/2 °	466'	1 °
100	3/4	560	1/4
130	1 1/4	592	1/2
130	1	654	1/2
158	1	750	1/4
190	1/2	845	1/8
220	1	1035	3/4
250	1/2	1160	1/4
280	1	1321	1/4
347	1	1511	3/4
407	1 1/4	1580	3/4
		1700	1 1/8

MUD RECORD

Gel	38 sacks
Salt Gel	50 sacks
Super Col	48 sacks
C.M.C.	225 lbs.
Bi-Carbonate of Soda	100 lbs.
Plaster	30 sacks
Starch	40 sacks
Preservative	90 sacks

BIT RECORD (#2)

Bit #	Size	Make	Type	Serial #	Depth Out	Footage	Hours	Accum. Hrs.
1A	9 7/8	Smith	D.T.	66896	65	65	7.5	7.5
2A	9 7/8	Smith	D.T.	6889	130	65	5.75	13.25
3A	9 7/8	Reed	YTR	P37616	210	80	10.75	24
4A	6 1/4	Reed	YSL	E17168	283	73	4	28
5A	9 7/8	Smith	D.T.	60420	312	102	13.5	41.5
6A	9 7/8	Smith	D.T.	66899	350	38	2.5	48.5
7A	6 1/4	Smith	D.T.	38726	Pilot	150	6	46.5
1	6 1/4	Smith	D.T.	38724	1067	717	21 1/2	70.0
2	6 1/4	Smith	D.T.	38537	1511	444	22.75	92.75
3	6 1/4	Smith	D.T.	38726RR	1538	177	11 3/4	98
4	6 1/4	Reed	Y.T.L.	ED5075	1580	42	12	110
5	6 3/16	ACC	Diamond	7018C	1672	92	31	141
6	6 1/4	Smith	D.T.2G	40264	1732	60	18	159
7	6 1/4	Reed	YHR	P40235	1901	102	18 1/4	177 1/4
8	5 1/4	Reed	YHR	P40234	1932	31	13 1/4	190 1/2

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SECTION V

ANALYSES

PAGES 18-21

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CHEMICAL ANALYSIS

CENTRAL-DEL RIO OILS LIMITED

CDR CPOG CHEVRON MILLS LAKE 1-57

MILLS LAKE AREA

NORTH WEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-1286

Company Central-Del Rio Oils Limited

Well Name CDR CPOG Chevron Mills Lake I-57 Sample No.

Formation Keg River Depth 1612' - 1672'

Location Grid 61° 20' N.L. 117° 30' W.L. Field Mills Lake Area Province Northwest Territories

Date Sampled Feb. 14/67 Date Analyzed March 20/67 Analyst VC

Sampled From DST No. 1 (Top of Tool) By

Recovery 110' Fluid Elevation

Constituents:

1. Total Solids 6,866 mg/liter 2. pH 7.23 3. Sp.Gr. 1.0077 @60°F.

4. Resistivity 1.607 Ohm-meters @ 75 °F 5. H_2S Absent

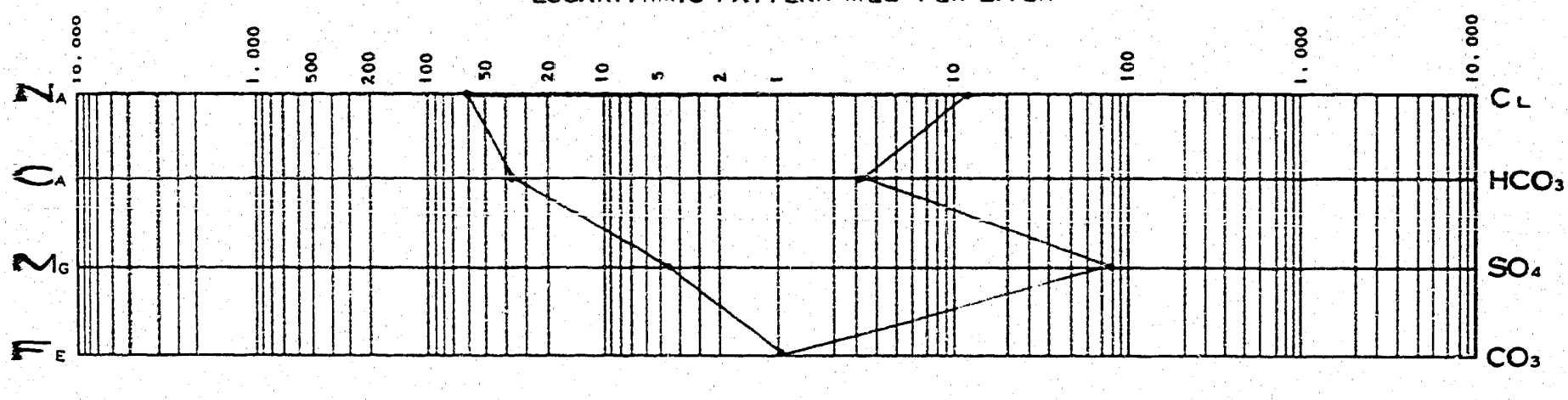
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
1,387	714	56	Absent	Absent		479	210	4,020	-	-	

MEQ PER LITER

60.3	35.6	4.6	-	-		13.5	3.4	83.6	-	-	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-1286

Company Central-Del Rio Oils Limited

Well Name CDR CPOG Chevron Mills Lake I-57 Sample No.

Formation Keg River Depth 1612' - 1672'

Location Grid. 61° 20' N.L. 117° 30' W.L. Field Mills Lake Area Province Northwest Territories

Date Sampled Feb. 16/67 Date Analyzed March 20/67 Analyst VC

Sampled From DST No. 2 (Bottom of Recovery) By

Recovery 110' Elevation

Constituents:

1. Total Solids 19,225 mg/liter 2. pH 7.30 3. Sp.Gr. 1.0171 @60°F.

4. Resistivity 0.385 Ohm-meters @ 75 °F 5. H_2S Absent

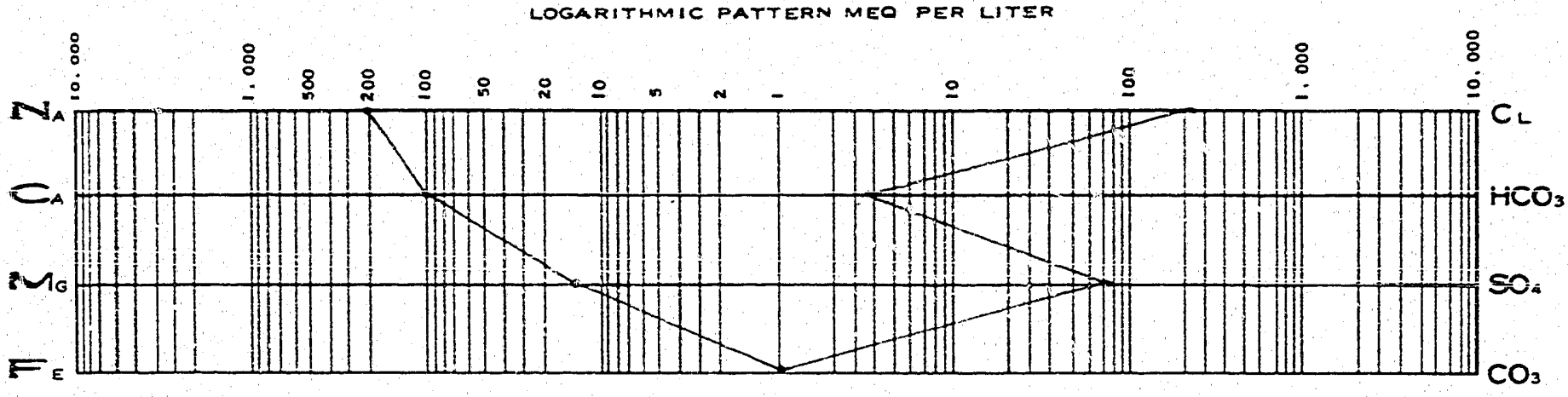
MILLIGRAMS PER LITER

N_A & K	C_A	M_G	F_E	B_A		C_L	HCO_3	SO_4	CO_3	OH	
4,681	2,016	182	Absent	Absent		8,547	229	3,570	-	-	

MEQ PER LITER

203.5	100.6	15.0	-	-		241.0	3.8	74.3	-	-	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - CENTRAL-DEL RIO OILS LIMITED
Well - CDR CPOG CHEVRON MILLS LAKE I-57
Field - MILLS LAKE AREA, NORTH WEST TERRITORIES
Location - UNIT I SEC. 57 GRID. 61° 20' N 117° 30' W

Date Report - MARCH 7, 1967
Formation -
D. Fluid - WATER BASE MUD
Analysis - FULL DIAMETER

File - CNP-4-3595
Analysts - MM
Core - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X POROSITY FEET	PER CENT	POROSITY X DENSITY FEET	BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VISUAL EXAMINATION
CORED INTERVAL 1580' - 1672.5'													
CORE NO. 1	1580' - 1610' (REC. 30') (7 BOXES)												
-	1580.0-1610.0	30.0	-	-	-	-	-	-	-	-	-	-	Denso
CORE NO. 2	1610' - 1640' (Measured 31.5') (7 BOXES)												
-	1610.0-1616.7	6.7	-	-	-	-	-	-	-	-	-	-	Denso
A	1616.7-1618.4	1.7	0.31	0.25	0.17	0.527	6.0	10.20	2.53	2.70	-	-	I. PPV.
B	1618.4-1619.7	1.3	2.2	1.8	0.63	2.86	7.0	9.10	2.50	2.69	-	-	I. PPV. F.
C	1619.7-1620.7	1.0	0.71	0.65	0.51	0.710	5.0	5.00	2.54	2.67	11.6	37.2	I. PPV. STY.
-	1620.7-1621.5	0.8	-	-	-	-	-	-	-	-	-	-	Donso
D	1621.5-1622.1	0.6	0.92	0.31	0.16	0.552	1.8	1.08	2.63	2.68	-	-	PPV. STY.
E	1622.1-1623.3	1.2	2.1	1.2	0.26	2.52	6.3	7.56	2.48	2.65	19.1	17.7	I. PPV. STY. F.
F	1623.3-1624.4	1.1	0.08	0.08	<0.01	0.088	0.7	0.77	2.67	2.69	-	-	Few PPV. STY.
-	1624.4-1637.1	12.7	-	-	-	-	-	-	-	-	-	-	Donso
G	1637.1-1637.7	0.6	0.42	0.06	0.15	0.252	6.0	3.60	2.63	2.80	-	-	I. Few PPV. F.
H	1637.7-1638.7	1.0	1.1	0.56	0.13	1.10	16.5	16.50	2.36	2.83	5.6	30.0	I.
I	1638.7-1639.5	0.8	0.60	0.39	0.36	0.480	13.9	11.12	2.46	2.86	-	-	I. A.
J	1639.5-1640.5	1.0	1.1	0.49	<0.01	1.10	10.3	10.30	2.48	2.77	-	-	I.
K	1640.5-1641.5	1.0	0.17	0.06	<0.01	0.170	7.7	7.70	2.60	2.82	-	-	I. A.
CORE NO. 3	1641' - 1672' (REC. 30.0') (7 BOXES)												
I	1641.5-1643.2	1.7	0.05	0.03	<0.01	0.085	7.1	12.07	2.62	2.82	-	-	I. A.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VISUAL EXAMINATION
CORE NO. 3 (Cont'd)													
-	1643.2-1644.7	1.5	-	-	-	-	-	-	-	-	-	-	Dense
2	1644.7-1646.9	2.2	0.12	0.09	<0.01	0.264	6.2	13.64	2.61	2.79	-	-	I. A.
-	1646.9-1647.3	0.4	-	-	-	-	-	-	-	-	-	-	Dense
3	1647.3-1649.2	1.9	<0.01	<0.01	<0.01	-	3.1	5.89	2.77	2.86	-	-	I. A.
4	1649.2-1650.7	1.5	0.43	0.40	0.26	0.645	11.4	17.10	2.50	2.82	16.8	37.7	I. A. STY.
-	1650.7-1651.4	0.7	-	-	-	-	-	-	-	-	-	-	Dense
5	1651.4-1653.3	1.9	0.46	0.43	<0.01	0.874	10.7	20.33	2.49	2.79	-	-	I. STY.
-	1653.3-1655.1	1.8	-	-	-	-	-	-	-	-	-	-	Dense
6	1655.1-1655.4	0.3	1.4	0.77	0.05	0.420	14.1	4.23	2.39	2.78	-	-	I. STY. F.
-	1655.4-1656.6	1.2	-	-	-	-	-	-	-	-	-	-	Dense
7	1656.6-1658.0	1.4	4.5	4.5	0.50	6.30	17.6	24.64	2.31	2.80	-	-	I. STY.
8	1658.0-1660.3	2.3	0.16	0.16	<0.01	0.368	5.4	12.42	2.68	2.83	-	-	I. A.
9	1660.3-1661.5	1.2	0.33	0.27	<0.01	0.396	8.7	10.44	2.58	2.83	Trace	51.7	I. Few PPV.
10	1661.5-1663.6	2.1	0.01	<0.01	<0.01	0.021	1.0	2.10	2.75	2.78	-	-	I.
11	1663.6-1664.6	1.0	2.8	2.5	0.53	2.80	10.4	10.40	2.56	2.86	-	-	I.
-	1664.6-1671.5	6.9	-	-	-	-	-	-	-	-	-	-	Dense
-	1671.5-1672.5	1.0	-	-	-	-	-	-	-	-	-	-	Lost Core.

I. - Intergranular: PPV. - Pin Point Vugs: F. - Fractured: STY. - Stylolite: A. - Anhydrite:

Core with Permeability 0.00 to less than 0.10 Md.

Total footage of core with permeability 0.00 to less than 0.10 millidarcys	6.0'	
Weighted average porosity of core with permeability 0.00 to less than 0.10 millidarcys	3.1%	(20.03)
Per cent of analyzed core having permeability 0.00 to less than 0.10 millidarcys	23.6%	
Weighted average horizontal permeability of core with permeability 0.0 to less than 0.10 md.	0.03md.	(0.194)

Core with Permeability 0.10 to 0.99 Millidarcys

Total footage of core with 0.10 to 0.99 millidarcys permeability	14.8'	
Weighted average porosity of core with 0.10 to 0.99 millidarcys permeability	7.6%	(112.63)
Per cent of analyzed core having 0.10 to 0.99 millidarcys permeability	51.4%	
Weighted average horizontal permeability of core with 0.10 to 0.99 millidarcys	0.35md.	(5.230)

Core with Permeability 1.0 to 9.9 Millidarcys

Total oofate of core with 1.0 to 9.9 millidarcys permeability	7.2'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability	11.5%	(82.73)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability	25.0%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys	2.4md.	(17.10)

Core with Permeability 10 Millidarcys and Greater - Nil

Cored interval	1500.0' - 1672.5'	
Total footage	92.5'	
Footage analyzed	28.8'	
Footage not analyzed --- Dense 62.7', Lost core 1.0'	63.7'	
Weighted average porosity of core analyzed	7.5%	(216.19)
Weighted average horizontal permeability of core analyzed	0.78md.	(22.532)

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

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SECTION VI

COMPLETION SUMMARY

PAGES 22-27

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DAILY PROGRESS REPORT

CDR CPOG CHEVRON MILLS LAKE I 57 (#1)

Jan. 22/67 Depth (8 A.M.) 15' Progress: 15' On Bottom: 1/2 hr.
Operation: drilling.
Remarks: Spudded 7:30 A.M. Jan. 22/67.
Waiting on parts 10 hours.
Repairing draworks motors 12 hours.
Rigging to spud 1 1/2 hours.

Jan. 23/67 Depth (8 A.M.) 55' Progress: 40' On Bottom: 2 hrs.
Operation: drilling.
Mud Viscosity: 40. Additives

Caustic	250 lbs.
Super Col	5000 lbs.
Salt Water Gel	2000 lbs.
Mago Gel	5200 lbs.
Plaster	200 lbs.

Remarks: Shut down to repair oil filter 2 1/2 hours mud settled out, mixed all available mud and waited on new mud 8 1/4 hours. Mixing mud 10 hours; repair swivel and Rig motor 3 1/4 hours; Rig service 1 hour.

Jan. 24/67 Depth (8A.M.) 252' Progress: 197' On Bottom: 14 1/4 hours.
Operation: drilling.
Mud: Viscosity 38 Weight 9.5 Additives: Mago gel 700 lbs.
Remarks:

Mixing Mud	1 hour
Rig service	1½ hours
Survey	½ hour
Work on pump	2 hours
Set up Clutches	½ hour
Start rig motor & Prime pump	1½ hours.

Jan. 25/67 Depth (8 A.M.) 267' Progress: 15' On Bottom: 1 1/2 hours.
Operation: Nippling up.
Mud: Viscosity 55 Weight 9.5
Additives: nil.
Remarks:

Mix Mud	2 hours
Service Rig	1 "
Run Casing	1½ "
Head to Circulate	3/4 "
Circulate casing	3/4 "
Mix cement & displace	½ "
W.O.C.	12 "
Nippling up	3 "

Jan. 26/67 Depth (8 A.M.) 267' Progress: 0 On Bottom: 0
Operation: Waiting on welder for kelly cock.
Remarks:

Nippling up B.O.P.'s	8 hours
Rig up mud tanks	
Prime pump & finish nippling up	8 hours
Drain pump tighten belts etc.	8 hours

Jan. 26/67 (cont'd)
Drilled out plug.
Finished drilling out @ 8:30 A. M. Plug at 215' adapter between Kelly cock and Kelly Seivel leaking waiting on welder.

Jan. 27/67 Depth (8 A.M.) 376' Progress: 109' On Bottom: 2 hrs.
Operation: removing casing bowl.
Mud Viscosity: water. Additives: 800 lbs. Gel
3 sax Sawdust

Remarks:

	Hours
Drill out shoe	½
Work on mud pump & Rig motor	3/4
Waiting on welder	14
Rig service & survey	½
Loosing mud build volume	2 1/4
Circulating	
Tear out B.O.P.	3

Losing volume in tanks. Check leak at well head, mud coming out between 7" collars and male thread of bowl. Bowl backed off to with in one or two threads.

Jan. 28/67 Depth (8 A.M) 376'
Operation: Skidding Rig 50' S.E.
Remarks: Ran cement plugs.
Plug #1 376-211' 35 sax cement. Plug down @ 12:15 A.M.
Plug #2 3 sax cement at surface. Cut off casing 3' below ground .
Welded on steel plate.

DAILY PROGRESS REPORTS

CDR CPOG CHEVRON MILLS LAKE I-57 (#2)

Jan. 29/67 Depth (8 A.M.) 65' Progress: 65' On Bottom: 7 1/2 hours
Operation: drilling.
Remarks: Spudded @ 10:30 P. M. Skidded rig 42' E 16' S of #1 location.

Rigging to spud	14 1/2 hours
Work on pump	1 hour

Jan. 30/67 Depth (8 A.M.) 161' Progress: 96' On bottom: 11 1/4 hours.
Operation: straightening hole. Additives: 10 sacks gel.
Remarks:

Ream 0-130'	3 3/4 hours
Surveys	2 "
Prime Pump & Rig Service	3 "
Mix Mud	1 "
Rig Repair	2 "

Jan. 31/67 Depth (8 A.M.) 283' Progress: 122' On Bottom: 7 3/4 hours
Operation: waiting on repairs.
Mud: Viscosity: 44. Additives: Nil.
Remarks:

Surveys	2 hours
Swivel Repair	1½ hours
Service Rig	3/4 "
Wait on U-Joint for Rotary Table	10 1/4 hours.

Feb. 1/67 Depth (8 A.M.) 312 Progress: 30' On Bottom: 3 1/4 hours.
Operation: tripping for 6 1/4 pilot bit.
Mud: Viscosity 54 Weight 10.2
Additives: 23 sacks Gel.
Remarks:

Wait on repairs	6 1/2 hours
Ream 9 7/8 - 6 1/4 210-283'	3 hours
Fanning 120'	5 hours
Rig service	1 hour
Surveys	1 3/4 hours
Mix mud	1 1/2 hours

Feb. 2/67 Depth (8 A.M.) 350' Progress: 38' On Bottom: 1 1/2 hours (3 1/4 reaming)
Operation: Waiting on cement.
Mud: Viscosity: 52' Weight: 10.5
Remarks:

Surveys	3/4 hr.
Pump water	1
Run casing	2 1/4
Circulate casing	1 1/4
Set Clamp in Cellar	2 1/2
Cementing	1/4
Nipple up to circulate hot water down D.P. & return out casing	4 1/4
Circulating	2

Feb. 2/67 (cont'd)
Ran 8 joints 7" 20# J 55 Rge. 3 Japanese casing.
Tallied at 336.94' and set at 346.24 K.B. with 120 sacks normal Portland Can. Cement. plus 2% $CaCl_2$ Ran 9 bbls. pipe sweep ahead of cement.
Plug down @ 1:52 A.M. Via B.J. Ran 10 scratchers on bottom.120' worked scracchers 45 minutes.

Feb. 3/67 Depth at (8 A.M.) 350' Progress: 0 On Bottom: 0
Operation: Nippling up.
Remarks: Circulate Hot water through casing 4 1/2 hours
Nipple up and remove landing joint 1 1/2 hours
Run in 1 1/4" pipe and cement 1 hour
W.O.C. 7 1/2 hours
Nipple up head 9 1.2 hours
Ran 1 1/4" pipe alongside casing. Top of cement @ 135'.
Ran 90 sax cement plug 2% $CaCl_2$. Return to surface 2:45 P.M. dug out cellar. Mix 16 sax in cellar.

Feb. 4/67 Depth (8 A.M.) 350' Progress: 0 On Bottom: 0
Operation: waiting on rig motor.
Remarks: Rig motor down 8:45 A.M. Feb. 3/67.

Feb. 5/67 Depth (8 A.M.) 350' Progress 0
Operation: shut down waiting on rig motor.

Remarks: Rig motor arrived from Calgary 10 A.M. Feb. 5/67.

Feb. 6/67 Waiting additional parts for rig motor.

Feb. 7/ 67 Still waiting on parts.

Feb. 8/67 Depth: 350'
Operation: drilling shoe at 346'
Remarks: found plug @ 306'
Pressured Blind Rams 1200 P.S.I. 30 Min.
Pressured 4 1/2 Rams 1200 P.S.I. 30 Min.
Pressured Hydril 1200 P.S.I. 30 Min.
Repairs completed, pump primed and started pressured up at 1:30 A.M. Feb. 8/67.
Repairing motor 16 hours
Prime pump 1 1/2 hours
Pressure test B.O.P.'s 2 1/2 hours
Drilling Plug 4 hours

Feb. 9/67 Depth (8 A.M.) 968' Progress: 622' On Bottom: 18 3/4 hours
Operation: drilling.
Mud: Viscosity 42 Weight 9.2 Water Loss 7.4 PH 8.0
Additives: Super Col 23 sacks C.M.C. 100 lbs. Bi-Carb. 100 lbs.
Remarks: Check & start new motor 1 1/4 hours
Dump tanks & displace hole 1
Surveys 2 1/2
Rig service 1/4 hours

Feb. 10/67 Depth (8 A.M.) 1440' Progress: 472' On Bottom: 17 1/4 hours.
Operation: drilling.
Mud: Viscosity 43 Weight 9.8 Water Loss 7.7 P.H. 8.0
Additives: Super Col 5 sacks C.M.C. 25 lbs.
Remarks: Repair shaker cord 1 hour
Check preventors 3/4 hours
Service Rig & Surveys 2½ hours
Clean Mud Tanks 1 hour

Feb. 11/67 Depth (8 A.M.) 1539' Progress: 99' On Bottom: 11 1/4 hours
Operation: drilling.
Mud: viscosity 58 Weight 9.5 Water loss 6.0 P.H. 8.0
Additives: Plaster 8 sacks Starch 13 sacks Preservative 30 lbs.
Remarks: Rig Service 1 hour
Circulate Sample ½ hour
Clean 4' fill on last bit 1 ½ hours

Feb. 12/67 Depth (8 A.M.) 1586' Progress 47' On Bottom: 14 1/4 hours.
Operation: coring.
Mud: viscosity 63 weight 9.4 Water loss 5.5 P.H. 8.0
Additives: Gel 8 sacks (salt Gel) Plaster 1 sack Preservative 25 lbs.
Remarks: Service rig and B.O.P. 1 3/4 hours
Circulate Hole clean 1 3/4 hours
Make up Core Barrel 2 hours
Survey 1/2 hour

Feb.13/67 Depth (8 A.M.) 1610' Progress: 24' On Bottom 12 3/4 hours.
Operation: cleaning to bottom.
Mud: Viscosity 61 Weight 9.6 water loss 9.0 P.H. 8.0
Remarks: Rig service and repairs 4 1/2 hours
Handle core 1 1/2 hours
Clean to bottom 1

Feb. 14/67 Depth (8 A.M.) 1641' Progress: 31' On Bottom: 9 hours
Operation: Making testing tool up.
Mud: viscosity 9.3 Weight 6.5 Water Loss 7.5 P.H. 8.0
Additives: Plaster 4 sacks Starch 4 sacks Salt Gel 22 sacks
Preservative 25 lbs.
Remarks: Mixing and conditioning mud 5 1/2 hours
Service rig and check B.P. 1 1/4 hours
Thawing out 2 3/4 hours
Handle core 1 hour

Feb.15/67 Depth (8 A.M.) 1641' Progress : 0
Operation: thawing out.
Mud: 65 Weight 9.3 Water Loss 8.0 P.H. 8.0
Additives: Plaster 3 sacks Gel 5 sacks.
Remarks: Thawing out 6 3/4 hours
Making up tool 3
Testing 2 3/4
Make up testing head 1/2
Break down tool 1/2
W.O. orders 2 1/2 hours
Bail cellars 3/4

Feb. 16/67 Depth (8 A.M.) 1672' Progress: 31' On Bottom: 7 1/4 hours.
Operation: testing.
Mud: Viscosity 70 Weight 9.4 Water Loss 7.7 P.H. 8.0

Feb. 16/67 (cont'd)

Additives:

Starch	7 sacks
Salt Gel	14 sacks
C.M.C.	1 sack
Super Col	5 sacks
Plaster	2 sacks

Remarks:

Thawing	2 hours
Circulate mud	3 3/4 hours
Circulate hole clean to core	1/2 hour
Drain Kelly hose	1/2 hour
Handle core & lay down barrel	1 1/2 hours
Rig service & B.O.P.	3/4 hours
Make up tool	2 1/4 hours

Feb. 17/67 Depth (8 A.M.) 1710' Progress: 38 ' On Bottom: 11 1/4 hrs.
Operation: drilling.
Mud: Viscosity 58 Weight 9.2 Water Loss 6.8 P.H. 8.0
Additives:

Plaster	4 sacks
Starch	5 sacks

Feb. 18/67 Depth (8 A.M.) 1798' Progress: 88' On Bottom: 19 hours.
Operation: tripping.
Mud: viscosity 70 Weight 9.4 Water Loss 5.3 P.H. 8.0
Additives:

Super Col	5 sacks
Plaster	4 sacks
Starch	5 sacks
Preservative	15 lbs.

Feb. 19/67 Depth (8A.M.) 1887' Progress: 89' On Bottom: 15 1/4 hours
Operation: drilling.
Mud: Viscosity 63 Weight 9.2 Water Loss 6.0 P.H. 8.0
Additives:

Super Col	10 sacks
Salt Gel	6 sacks
Plaster	4 sacks
Starch	6 sacks

Remarks:

Work on Pump & Service rig	2 hours
Mix Mud dump truck	3½ hours

Feb. 20/67 Depth (8 A.M.) 1932' Progress: 45' On bottom: 16 1/4 hours
Operation: Circulating to log.
Mud: Viscosity 68 Weight 9.8 Water Loss 6.2 P.H. 8.0
Remarks:

Work on pump, wt. indicator	1/2 hour
Circulate hole to log	1/2 hour
Service Rig	1 hour

BIG INDIAN DRILLING CO. LTD. — PROJECT NO.____

RIG. NO.____ LOCATION____ DATE____

BIG INDIAN DRILLING CO. LTD. — PROJECT NO.____

LOCATION____ DATE Feb 22/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER____ GALS.

1.____ 2.____ 3.____

PUMP / PUMP / SURVEY

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL: Crew worked over onto daylight and afternoon

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER	8			4½	12½	
HELPER	8			4½	12½	
HELPER	8			2	10	
	8			5½	13½	
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN IGPM	DESCRIPTION / DEPTH TO WATER IN FT.
		FELT FOR PLUG AT 2:00 A.M.
		STARTED PICKING UP WT. OF
		STRING @ 285. CHECKED
		STRING AT 295

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	MOVE MUD TANK OUT & LOAD.	12:00		
	LOOSE EQUIP.		2:00	
	TRIP IN & FEEL FOR PLUG.	2:00		
	LAY DOWN PIPE.		3:00	
	MOVE P. PETRACHEL - REPAIR			
	WINCH		4:00	
	LAY DOWN DERRICK - TROUBLE			
	W/ HYDRAULIC SYSTEM		6:00	
			6	
	Move Derrick and	6		
	Cleaning Cookshack			
	to Replace Steam Boiler		8	
	RIG RELEASED @ 4:00 A.M FEBRUARY 22/1967.			
	Ted Mullyan.			
	DRILLER			

COMPANY TIME____ CONTR TIME____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER____ GALS.

1.____ 2.____ 3.____

PUMP / PUMP / SURVEY

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						10
HELPER Ed Pratt						13
HELPER CHARLIE HICKINS						10
David Gagan						10
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Pick Mattingout Ice	6:00	6:00	
	Load out Pump			
	Drain Boiler			
	pick up Steam Lines			
	Drive Rig To B-70			
	Tote up Rig			
	Set up Prefab around			
	Rig			
				10
	DRILLER Ken Brennan			

COMPANY TIME____ CONTR TIME____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER____ GALS.

1.____ 2.____ 3.____

PUMP / PUMP / SURVEY

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						14
HELPER ED. BRUMMOND						14
HELPER DARREL STEWART						14
ARNOLD COCHRANE						14
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	MOVE CAMP & RIG UP	8:00		
	SAME. UNLOADING			
	TRUCKS AT NEW LOCATION		16:00	14
	DRILLER Wm Forsyth.			

COMPANY TIME____ CONTR TIME____

TOTAL CONTRACT TIME____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO. 1

RIG NO. 17 LOCATION C.D.C. Pad milk lake 1-57 DATE Feb 21/67

TOUR 1 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2			1932	—	—		—	—	—

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
				circulating									

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	9.7	9.7	9.7	9.7
VISC.	45	96	66	66
GEL	W.L	9.8	45	8.2	8.5

W.L. ____ F.C. ____ P.H. 8

ADDITIVES: WATER ____ GALS.
1. Soda Ash
2. Quebracho
3.

GENERAL: Wait on orders after logging.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEC.	SURVEY ∠ LOG TO DEPTH
175	40	1930	175	40	1932	—	—	—

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	/	/	/
W. TRUCK	/	/	/
MOB. PUMP	/	/	/

WEATHER	MIDN.	4 A.M.
TEMPERATURE: +	1	0
WIND VELOCITY:	nil	nil
RAIN, SNOW, FOG; ETC.	Clear	Clear

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conn						8
HELPER D. Romney						8
HELPER E. McFarlane						8
F. Garnier						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Circulate hole Conditions mud Prepare out mud tank & Wait on orders	12:00	8:00	

DRILLER Dennis Conn

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 — TO — 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.1	9.1	9.1	
VISC.	62	65	61	
GEL				

W.L. 7.9 F.C. 3/32 P.H. 8.0

ADDITIVES: WATER ____ GALS.
1.
2.
3.

GENERAL:

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ∠ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER E. Pratt						8
HELPER Charles Hoskins			Moving To New Location			10
David Bargen						6
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	W.O.O	8:00	12:00	4
	Repair To Run plug	12:00	4:00	4
				8

DRILLER Ken Brennan

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 — TO — 4 P.M.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	TD								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	CEMENTING &			
VISC.	W.O.C.			
GEL				

W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ∠ LOG TO DEPTH
/	/	/	/	/	/	/	/	/

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

PLUG #1 1932 - 1550 90 SACKS
CEMENT. PLUG DOWN 4:20 P.M. JM

PLUG #2 400 - 300 35 SACKS
CEMENT. PLUG DOWN @ 5:40 P.M.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	CEMENT & DISPLACE PLUG.	4:00	4:30	1/2
	PULL OUT TO 400'	4:30	5:15	3/4
	RUN CEMENT & DISPLACE PLUG	5:15	5:45	1/2
	LAYING DOWN DRILL PIPE	5:45	7:00	1 1/2
	W.O.C.	7:15	12:00	4 3/4
	PREPARING FOR MOVE			8

DRILLER Wm Forsyth

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME ____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG NO. 17 LOCATION SDR-C806 mills hole 157 DATE Feb 20 57

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	1906	1932	132	7		46	1	1	1

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			9	6¼	HHR	40234	14	92	31	—	13¼	—	+N	—

TOUR 1 — TO 8 A.M. — MIDN.

MUD	12MN.	2A.M.	4A.M.	6A.M.
WT.	9.1	9.1	9.1	9.1
VISC.	51	61	62	68
GEL.				
W.L. 8.0	F.C.		P.H. 8.0	

ADDITIVES: WATER ____ GALS.
1. 10# Mill Starch
2. 20-0 G Gel
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
300	40	1900	500	40	1170			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	/	/	/
W. TRUCK	/	/	/
MOB. PUMP	/	/	/

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-18	-20
WIND VELOCITY:	W	Nil
RAIN, SNOW, FOG ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conn						8
HELPER J Bagnall						8
HELPER W Frost						7½
L Mansin						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST				
FROM FT. / TIME	TO FT. / TIME	RATE IN 16PM	DESCRIPTION	DEPTH TO WATER IN FT.

HIT oranite @ 1909 ft
9.00 p.m Feb 19

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 6¼ hole	1-00	8-00	13
	Conditioning + Working Weight Indicator	8-00	9-00	1
	Drilling 6¼ hole	9-00	7-30	9½
	Circulate hole to condition for logging	7-30	8-00	½
				8

DRILLER Dennis Conn

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 — TO 4 P.M. — 8 A.M.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.5	Tp		
VISC.	66	"		
GEL.		P		
W.L. 7.9	F.C. 32	P.H. 8.0		

ADDITIVES: WATER ____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
						1½°	1932	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	0	+18
WIND VELOCITY:	stiff	
RAIN, SNOW, FOG ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brunnon						8
HELPER Ed Pratt						8
HELPER Charles Fookens						8
David Gagnon						
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Circulate	8-00	8-30	½
	Run Survey	8-30	9-00	½
	Pull To Log	9-00	10-45	1¾
	Rig To Log	10-45	11-15	½
	Logging with Schlumberger	11-15	2-45	3½
		2-45	4-00	

DRILLER Ken Brunnon

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 — TO 4 P.M. — MIDN.

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WT.				9.5
VISC.				48
GEL.				
W.L. 9.6	F.C. 33	P.H. 8.0		

ADDITIVES: WATER ____ GALS.
1.
2.
3.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1932								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
	40	TD						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER ORRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WAIT ON ORDERS.	4-00		
	RUN IN HOLE			
	WHILE WAITING ON ORDERS.		12-00	8
				8

DRILLER Wm Forsyth.

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER i/c ____

TOTAL COMPANY TIME ____ HRS. APPROVED BY ____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Mills Lake 1-57 C.D.R. N.W.T. DATE 3 Feb 1967

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	1841	1887	—	—	—	45	—	—	—

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			8	6¼	YHR	P40235	14	90	88		15¼			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	87	90	9.2	9.2
VISC.	92	4.2	63	65
GEL.				

W.L. 6 F.C. P.H.

ADDITIVES: WATER GALS.

PUMP PRESS	RPM	DEPTH	PUMP PRESS	RPM	DEPTH	SURVEY AT	DEG.	E LOG TO DEPTH
300	40	1840	300	70	1885			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	/	/	/
W. TRUCK	/	/	/
MOB. PUMP	/	/	/

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-39	-30
WIND VELOCITY:	nil	nil
RAIN, SNOW, FOG, ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conn						8
HELPER J. Connor						8
HELPER E. De Jard						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
	Drilling 6¼" Hole	12⁰⁰	2⁴⁵	
	[illegible]	2⁴⁵	3⁰⁰	
	Drilling 6¼" hole	3⁰⁰	8	

DRILLER Dennis Conn

COMPANY TIME CONT'R TIME

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	[illegible]	1887	14	/	/	/	1901	/	/	/

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			8	6¼	YHR	P40234	14	90	102		18¼			
			Pulled AT 1901											

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.3	TRIP		
VISC.	71			
GEL.				

W.L. 72 F.C. 3/32 P.H. 8.0

ADDITIVES: WATER 15 bbls GALS.

PUMP PRESS	RPM	DEPTH	PUMP PRESS	RPM	DEPTH	SURVEY AT	DEG.	E LOG TO DEPTH
						/	/	/

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		/
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	-20	-8
WIND VELOCITY:	—	
RAIN, SNOW, FOG, ETC.	—	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan	8	\	\	\	\	8
HELPER Ed. PRATT						8
HELPER Charlie Hoskins						8
David Gargan						8
TOTAL						

INJURIES AND REMARKS:

Kelly up 22 FT

CLASS	REMARKS	START	STOP	INTERVAL
	Drill	8⁰⁰	8³⁰	½
	Service Rig	8³⁰	9¹⁵	¾
	Drill	9¹⁵	11⁴⁵	2½
	START out	11⁴⁵		
	REMODEL Hole Fill Line			
	Finish out		4⁰⁰	4¼

DRILLER Ken Brennan

COMPANY TIME CONT'R TIME

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	1901	1916				14			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			9	6¼	YH-R	P46234	14	90	14		6			

MUD	4 P.M.	8 P.M.	8 P.M.	10P.M.
WT.		10.	10.	9.8
VISC.		57	57	55
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER 10 BBLS GALS.

PUMP PRESS	RPM	DEPTH	PUMP PRESS	RPM	DEPTH	SURVEY AT	DEG.	E LOG TO DEPTH
285	40	1901	285	40	1911			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	8	10
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.		

GENERAL: PREPARE TO MIX MUD UNPLUG MIXER THAW OUT LONG HOSE.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMUND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

4 FT FILL ON BOTTOM AT 1901

CLASS	REMARKS	START	STOP	INTERVAL
	RIG SERVICE	4.⁰⁰	4.¹⁵	¼
	RUN IN W/ BIT NO 9	4.¹⁵	5.⁴⁵	1½
	WORK ON PUMP	5.⁴⁵	6.⁰⁰	¼
	DRLG 6¼ HOLE	6.⁰⁰	12.⁰⁰	6
				8

Dolomite at 1901 at 9 P.M.

DRILLER Wm Forsyth

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME 21 HRS. TOOLPUSHER OR DRILLER i/c [signature]

TOTAL COMPANY TIME 3 HRS. APPROVED BY Jack Mulligan

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION Nitla Lake 1-57 DATE Feb 18/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE Feb 18/67

TOUR 1 — MIDN. TO 8 A.M.

I.T.	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
A.F:	AT:	2	1774	1794	—	—	—	28	—	—	—

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			7	6¼	YT LR	F16138	12	90	64		12½			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	93	93	94	94
VISC.	66	69	72	70
GEL.				
W.L. 5.3	F.C. 3/32	P.H. 8.0		

ADDITIVES: WATER ..... GALS.
1. N.T.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
275	90	1775	300	40				

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	/	/	/
W. TRUCK	/	/	/
MOB. PUMP	/	/	/

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	−32	+30
WIND VELOCITY:	nil	nil
RAIN, SNOW, FOG: ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm. Forsyth						8
HELPER Ed. Bumgardner						8
HELPER Darrell Stewart						8
Arnold Cochrane						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST				
FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION	DEPTH TO WATER IN FT.	

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 6¼ hole	12⁰⁰	4³⁰	4½
	Circulate and work	4³⁰		
	Open pit Bent punched.		5¹⁵	¾
	Drilling 6¼ hole	5¹⁵	8⁰⁰	2¾
	DRILLER Wm Forsyth			
	COMPANY TIME..... CONT'R TIME.....			

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
A.F:	AT:		1848	—	—	—	—	—	—	—	—

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			[illegible]											
			8	6¼	YHR	P40235								

MUD	8 A.M.	10A.M.	12 N'n.	2.P.M.
WT.	Fresh	Fresh	Fresh	Fresh
VISC.				
GEL				
W.L.	F.C.	P.H.		

ADDITIVES: WATER 60 BBLS GALS.
1. 10 oz Super Cal
2. 6 " Salt Gel
3. 8 " Flocele

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	—	—	—
W. TRUCK	—	—	—
MOB. PUMP	—	—	—

WEATHER	8 A.M.	NOON
TEMPERATURE:	−30	−10
WIND VELOCITY:	10	5
RAIN, SNOW, FOG: ETC.	Cloud	Cloud

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Corman						8
HELPER M. Bumgr						8
HELPER L. DeFord						8
L. Gorman						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Trip out for bit change	8²⁰	8⁴⁵	
	Work on pump	8⁴⁵	9⁰⁰	
	Trip out	9⁰⁰	9⁴⁵	
	Check B.O. P's	9⁴⁵	10²⁰	
	Service Rigand	10²⁰		
	Repair Cable Clutch		11⁰⁰	
	Trip in	11⁰⁰	12³⁰	
	Break Circ and Clean	12³⁰	12:45	
	bottom of hole (no fill)	12:45		
	Mud Lord and Remix		4⁰⁰	
	DRILLER Dennis Corman			
	COMPANY TIME..... CONT'R TIME.....			

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
A.F:	AT:	E57	1798	1841	/	/	/	43			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			8	6¼	YHR	P40235	14	90	43		7½			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.0	9.1	9.1	
VISC.	45	72	80	
GEL				
W.L. 5.6	F.C. 3/32	P.H. 8.0		

ADDITIVES: WATER ? GALS.
1. 300 lbs Mistarch
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
			300					

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8	/	/
W. TRUCK		/	/
MOB. PUMP		/	/

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	−4	−25
WIND VELOCITY:	still	still
RAIN, SNOW, FOG: ETC.	clear	clear

Kelly up 16 FT

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN Brennan	8	/	/	/	/	8
HELPER Ed PRATT						8
HELPER Charlie Hoskins						8
David GABGAN						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Break circulation	4⁰⁰	4³⁰	½
	Dr. 11	4³⁰	12⁰⁰	7½
	DRILLER Ken Brennan			
	COMPANY TIME..... CONT'R TIME.....			

TOTAL CONTRACT TIME..... HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME..... HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION MILLS LAKE I-57 CO R. NWT DATE FEB 17/67

TOUR 1 — MIDN. TO 8 A.M.

LT: LF: HOLE NO. 2 FROM 1688 TO 1710 T.D.IF FIN. SIZE CASING SET TO DEPTH 229 AMOUNT SAC CEMENT AVERAGE TIME PER LOAD OF W. LOST DRILL TIME WAIT ON WATER

AF: AT:

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		6	6 1/4	OT26	40264	12	90	~~16~~ ~~59~~ 38		1 1/4			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	9.1	9.1	9.2	9.2
VISC.	45	47	58	58
GEL.				

W.L. 6.8 F.C. P.H. 7.6

ADDITIVES: WATER GALS.
1. PLASTER 4 SKS
2. STARCH 5 SKS
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH
250	40	1641	250	40	1710	1700	1 1/8	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-30	-35
WIND VELOCITY:	NIL	NIL
RAIN, SNOW, FOG; ETC.	CLEAR	CLEAR

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER W.M FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

TOUR 2 — 8 A.M. TO 4 P.M.

LT: LF: HOLE NO. 1-57 FROM 1710 TO 1732 T.D.IF FIN. SIZE CASING — SET TO DEPTH — AMOUNT 22 SAC CEMENT — AVERAGE TIME PER LOAD OF W. — LOST DRILL TIME WAIT ON WATER —

AF: AT:

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		6	6 1/4	OT26	40264	12	90	~~22~~ 60		1 7/4 / 1 7/6			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.2	9.3	9.3	9.4
VISC.	58	56	57	60
GEL.				

W.L. 5.4 F.C. P.H. 8.0

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH
250	40	1710				1700		

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	—	—	—
W. TRUCK	—	—	—
MOB. PUMP	—	—	—

WEATHER:	8 A.M.	NOON
TEMPERATURE:	-38	
WIND VELOCITY:	Nil	
RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Connor						8
HELPER M. Bongard						8
HELPER D. Ford						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

TOUR 3 — 4 P.M. TO MIDN.

LT: / LF: / HOLE NO. 1-57 FROM 1732 TO 1732 T.D.IF FIN. 1773 SIZE CASING 1 SET TO DEPTH 1 AMOUNT 41 SAC CEMENT AVERAGE TIME PER LOAD OF W. LOST DRILL TIME WAIT ON WATER

AF: / AT: / 41

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
1	1	7	6 1/4	YTLRE7613		14	90	41	Clean 6 Ft Fill	5 1/4 / 1/2	1	1	1

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	TR	9.1	9.1	9.3
VISC.	1	67	64	68
GEL.	P	3		8.0
W.L. 5.6	F.C. 3/32		P.H. 8.0	

ADDITIVES: WATER 20 bbls. GALS.
1. 250 Milstarch
2. 250 Super-Col
3. 200 Plaster 15 Preserve.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH
250	40	1735	275	40	1755			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8	1	
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

22 FT up on Kelly

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER ED. PRATT						8
HELPER CHELIE HOSKINS						8
DEV. D GERGAIX						8
TOTAL						

INJURIES AND REMARKS:

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE.....

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRLG 6 1/4 HOLE	12.00	4.00	4
	CONND SURVEY	4.00	4.30	1/2
	WORK ON LIGHT PLANT	4.30	4.45	1/4
	DRLG 6 1/4 HOLE	4.45	8.00	3 1/4
				8
	DRILLER Wm Forsyth.			

COMPANY TIME..... CONT'R TIME.....

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 6 1/4 hole	8 00	2 30	6 1/2
	Trip out	2 30	3 30	1
	Service Rig	3 30	4 00	1/2
				8
	DRILLER Dennis Connor			

COMPANY TIME..... CONT'R TIME.....

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Service Rig	4 00	4 30	1/2
	Run in w/ Lan 6 Ft Fill Dr. 11	4 30	6 45	
		6 45	12 00	5 1/4
	DRILLER Ken Brennan			

COMPANY TIME..... CONT'R TIME.....

TOTAL CONTRACT TIME..... HRS. TOOLPUSHER OR DRILLER i/c.....

TOTAL COMPANY TIME..... HRS. APPROVED BY.....

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION MILLS LAKE I-57 COR. N.W.T. DATE FEB 16/67

LT: | LF: | HOLE NO. 2 | FROM 1671 | TO | T.D.IF FIN. | SIZE CASING | SET TO DEPTH | AMOUNT | SAC CEMENT | AVERAGE TIME PER LOAD OF W. | LOST DRILL TIME WAIT ON WATER

AF: | AT:

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 1

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.		NOT CIRC HOLE.		
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

TO MIDN.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD [redacted]						8
TOTAL COCHRANE						

INJURIES AND REMARKS:

8 A.M.

LT: | LF: | HOLE NO. 2 | FROM 1671 | TO | T.D.IF FIN. | SIZE CASING | SET TO DEPTH | AMOUNT | SAC CEMENT | AVERAGE TIME PER LOAD OF W. | LOST DRILL TIME WAIT ON WATER

AF: | AT:

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			Testing										

TOUR 2

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	26	26
W. TRUCK				WIND VELOCITY:	5	5
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

TO 4 P.M.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Cowan						8
HELPER D. Bowman						8
HELPER E. D. Fret						6
L. Brennan						8
TOTAL						

INJURIES AND REMARKS:

LT: | LF: | HOLE NO. 157 | FROM 1672 | TO 1688 | T.D.IF FIN. | SIZE CASING | SET TO DEPTH | AMOUNT 16 | SAC CEMENT | AVERAGE TIME PER LOAD OF W. | LOST DRILL TIME WAIT ON WATER

AF: | AT:

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		6	6 1/4	DT26	40264	12	90	16		4			

TOUR 3

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	To	to	92	9.2
VISC.	1	1	73	75
GEL.	P	P		

W.L. 6.5 F.C. 32 P.H. 8.0

ADDITIVES: WATER 20 bbls GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
225	39	1675	250	40	1685			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

TO MIDN.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN	8					8
HELPER ED. FRET						8
HELPER CHARLIE HOSKINS						8
DAVID GIBSON						8
TOTAL						

INJURIES AND REMARKS: Nil

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
		D.S.T #2 1612-1672
		I.S.I 60 mins. V.O. 120 MINS
		F.S.I 120 MINS.

22 FT up on Kelly

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	HOIST CORE BARREL	12.00	1.15	1 1/4
	RIG SERVICE	1.15	1.30	1/4
	RECOVER CORE, WASH	1.30		
	BOX CORE, LAY DOWN			
	CORE BARREL		3.00	1 1/2
	CHECK BOPS.	3.00	3.30	1/2
	MAKE UP TESTING TOOL.	3.30	5.45	2 1/4
	RUN IN SHOW	5.45	6.00	1/4
	WORK ON SHAKER	6.00	6.15	1/4
	FINNISH RUN SHOW	6.15		
	INSTALL TESTING			
	HEAD.		8.00	1 3/4

DRILLER Wm Forsyth

COMPANY TIME CONT'R TIME

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb 16/67

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Make up Test tool	8.00		
	and go in hole		8.45	
	Start drill stem	9.45		
	Test. Squeeze			
	Close Choke Screen		2.00	
	Circulate		2.10	
	Pull out	2.10	3.10	
	Breaking down tool		4.20	

8

DRILLER Dennis Cowan

COMPANY TIME CONT'R TIME

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Break down test	4.00		
	Tools		5.30	1 1/2
	Blow Hole Fill line	5.30		
	put on Kelly hose rig			
	To Circulate Kelly		6.00	1/2
	Run in W.B.t	6.00	8.00	2
	Drill	8.00	12.00	4

DRILLER Ken Brennan

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION MILLS LAKE I-57 C.O.R. NWT DATE FEB 15/67

TOUR 1 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2.	1641								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/16	◇	7018C								

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. 35 lbs BLASTER
2. 5 GEL
3. IN TANK.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm. FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCKRANE						0
TOTAL						

INJURIES AND REMARKS: Gonnier strained back and bumped ribs

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	FINNISH IN/IN CORE BARREL	12.00		
	STEAMING OUT MUD TANK, HOOK UP SUCTION PRIMEING PUMP, THAWING OUT FLOW LINE & FLOW NIPPLE, STD pipe		1.15	1 1/4
	EVERYTHING FROZE UP CUT THE BOILER,		8.00	6 3/4
				8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1641		—	—	—	—	—	—	—

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/4	O	7019C	6	145	9		22		IN	

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.3	9.3	9.3	9.3
VISC.	60	70	70	45
GEL.				

W.L. 7.6 F.C. _____ P.H. _____

ADDITIVES: WATER 10 BBLS GALS.
1. 2 sax Starch
2. LC M C
3. Plaster [illegible] Salt Gel

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY E LOG TO DEPTH
700	60	1690	700	60	1650	—	—	—

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	—	—	—	TEMPERATURE:	-35	-20
W. TRUCK	—	—	—	WIND VELOCITY:	5	0
MOB. PUMP	—	—	—	RAIN, SNOW, FOG; ETC.	Cloud	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER D. Bergen						8
HELPER D. DeGood						8
D. Gonnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Thawing Standpipe and Kelly hose	8.00		
	Break Circulation and Condition mud		10.00	
	Cut Core #3	10.00		
	Circulating	12.30	1.00	
	Condition mud (Hole sloughing)	1.00	3.00	
	Coming	3.00	3.30	
		3.30	4.00	

DRILLER Dennis Comm

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	L.57	1651	1671	/	/	/	20	/	/	/

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/16	◆	7018C	8.000	140	30	/	6 3/4	/	/	/

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.4	9.4	9.4	9.4
VISC.	60	62	51	70
GEL.	7.9	8 32		8.0
W.L. 7.7	F.C.	8 32	P.H.	8.0

ADDITIVES: WATER 20 bbls GALS.
1. Super Col 250 lb
2. Salt Gel 1000 lb
3. M.I. Starch 200 lbs.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY E LOG TO DEPTH
750	62	1652	700	60	1672	/	/	/

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	8		/	TEMPERATURE:	-20	-28
W. TRUCK			/	WIND VELOCITY:	Still	
MOB. PUMP			/	RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan	8	/	/	/		8
HELPER Ed. PRATT						8
HELPER Charlie Hoskins	8	/	/	/		8
David Gargan						8
TOTAL						

INJURIES AND REMARKS:

Pulled #1 1671
3 Ft upon Kelly
STRing Weight
23.000

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Cutting Core #3	4.00	8.00	4
	Condition Mud.	8.00	10.15	1 1/4
	Cut. Core #3	10.15	10.45	3/4
	Break OFF Drain Kelly	10.45		
	Hose Mud line		11.15	1/2
	pull out w. Core #3.	11.15	12.00	3/4
	Blocks Comming Down very Slow			

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17# LOCATION MILLS LAKE I-57 N.W.T DATE FEB 14/67

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	1640								

TOUR 1 — BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		4	6 1/4	YTL	E05076	—							
				RETURN									

MUD	12MN.	2A.M.	5A.M.	6A.M.
WT.			9.3	9.3
VISC.			58	65
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. PLASTER 2 SKS.
2. STARCH 4 SKS.
3. SALT GEL 2 SKS PRES 25#

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

TO — CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD CHARLE						8
TOTAL						

8 A.M.

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	HOIST 4 D.C. INSTALL	12 00		
	FLOAT. RUN IN W/BIT		1 30	1 1/2
	THAW OUT CSN. PUMP	1 30		
	SUCTION, SHALE SHAKER.		2 45	1 1/4
	CIRC. RAISE VOLUME	2 45	5 45	3
	HOIST TO TEST	5 45	7 15	1 1/2
	STEAM OUT FILL LINE	7 15		
	CHECKING B.O.P.S.		8 00	3/4

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	1640		—	—	—	—	—	—	—

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	- 38	- 22
W. TRUCK				WIND VELOCITY:	W	W
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	Clear

GENERAL:

TO — CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Vernie Comm						8
HELPER N. Bonner						8
HELPER L. DeFord						8
L. Dennis						8
TOTAL						

4 P.M.

INJURIES AND REMARKS:

D.S.T. #1 1611 - 1641

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Making up testing String	8 00	11 00	
	Trip in hole	11 20	12 45	
	Make up Kelly Joint and set packer	12 45	1 15	
	Wait on Tool Open and Shut	1 15	4 00	2 3/4

DRILLER Vernie Comm

COMPANY TIME _____ CONT'R TIME _____

TOUR 3

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WT.				
VISC.				
GEL				

W.L. 8 F.C. 7/32 P.H. 7.5

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL: Rig suction truck to end of mud tank

TO — CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed. Pratt						8
HELPER Charlie Hoskins						8
David GARGAN						8
TOTAL						

MIDN.

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Break Head off Test String Pull 6 STANDS	4 00	4 30	1/2
	Clean ditch From BOP To Find valves AND Drain Thawhole Fill line Clean Frozen Mud off Rig Floor.	4 30		
	Roll out	5 45	7 00	3/4
	Break Down Test Tools	7 00	7 30	1/2
	400 Orders	7 30	10 00	
	Pick up Core BBL. open Log house side	10 00		
	Pipe Ran Run in		12 00	2

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION MILLSLAKE I-57 N.W.T. DATE FEB. 13/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb 13/67

TOUR 1 TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	~~1609~~	1610							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/16	◆	7018C			30					

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.		TRIPPING	TRIPPING	
GEL.				
W.L. F.C. P.H.				

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:	30	35
W. TRUCK				WIND VELOCITY:	5	8
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL: N.V.F.G. O.I.G.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARREL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT. / TIME	TO FT. / RATE IN 16PM	PUMP TEST DESCRIPTION / DEPTH TO WATER IN FT.
		Core #1
		1580 - 1608
		Rec'd 28 FT

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	FINNISH REPAIR BRAKE	12:00		
	HANDLE & ADJUST BRAKES		12:30	1/2
	PRIME PUMP / LOST PRIME	12:30	1:00	1/2
	HOIST PIPE W/ CORE BARREL	1:00	2:45	1 3/4
	RECOVER CORE SERVICE	2:45		
	BARREL, WASH & BOX CORE		4:15	1 1/2
	RUN IN TO CUT CORE #2	4:15		
	MUD FLOWING OVER			
	TOP OF PIPE, STEAMING			
	OUT BOXES, SLIPS &			
	ELEVATORS.		7:00	2 3/4
	BREAK CIRC. & CIRC TO	7:00		
	CORE STEAM OUT			
	SHAKER SCREENS			
	ROTARY TABLE		8:00	1
				8
	NO SHALE SHAKER.			
	DRILLER Wm Forsyth.			
	COMPANY TIME CONT'R TIME			

TOUR 2 TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	157	1610	1624							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/4	◆	7018C	5000	70	45		22		IN	

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	95	95	94	94
VISC.	60	40	43	43
GEL.	8			
W.L. 7.8 F.C. 7/32 P.H. 8.5				

ADDITIVES: WATER 20 BBL GALS.
1. 100 lbs Gel
2. 100 lbs Starch
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
650	60	1610	650	60	1620	—	—	—

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	—	—	—	TEMPERATURE:	-34	-30
W. TRUCK	—	—	—	WIND VELOCITY:	nil	nil
MOB. PUMP	—	—	—	RAIN, SNOW, FOG; ETC.	CAAF BI	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Denis Conner	8					8
HELPER D. Ramage	8					8
HELPER C. D. Ford	8					8
L. Daniels	8					8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Mixing & conditioning	9:00		
	mud		9:30	1/2
	Coring #2	9:30	10:45	1 1/4
	Conditioning mud	10:45	11:30	3/4
	Cutting Core #2	11:30	1:15	1 3/4
	Conditioning mud	1:15	1:30	1/4
	Cutting Core #2	1:30	4:00	2 1/2
	NO SHALE SHAKER.			
	DRILLER Denis Conner			
	COMPANY TIME CONT'R TIME			

TOUR 3 TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	157	1624	1640				16			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/16	◆	7018C		~~137~~	61		25½			
			6	6 1/4	VTL	FD5075	Run To Clean For TEST #1							

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.5	9.5	TR	TR
VISC.	40	41	P	P
GEL.				
W.L. 7.5 F.C. 2/32 P.H. 8.0				

ADDITIVES: WATER 200 lb Chesters GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
650	60	1624	1	/	/	/	1	1

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	8	1	/	TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL: Recover 31 Ft core. From 1609 to 1640

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken BRENNAN						8
HELPER Ed. PRATT						8
HELPER CHARLIE HOSKINS						8
DAVID CARSON						8
TOTAL						

INJURIES AND REMARKS:

Pulled at 1640
2 Ft up on Kelly

Core #2
1608 - 1640
Rec'd - 31 Ft

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Cutting Core #2	4:00	7:30	3½
	Service Rig Thaw Hole	7:30		
	Fill Line		8:00	½
	Pull out	8:00	9:15	1¼
	Recover Core Wash	9:15		
	and Box		10:15	1
	Clean Mud Tank,	10:15		
	Drain Kelly hose and			
	Mud Lines		11:45	1½
	START IN Hole with	11:45		
	Bit to Condition For			
	Test		12:00	¼
	Fuke up Geologests			
	Stove			
	REDUCED MOTOR ON SHALE SHAKER			
	DRILLER Ken Brennan			
	COMPANY TIME CONT'R TIME			

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION C.D.R. MILLS LAKE I 57 DATE FEB 12/67

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	I 57	1580	1586	/	/	/	/	/	/	

TOUR 1 TO

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			#5	6 3/16	Diamond	7018C	8000	70	6		2 3/4		IN	

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				9.4
VISC.				62
GEL.				

MIDN.

W.L. 5-5 F.C. 2/32 P.H. 8

ADDITIVES: WATER ..... GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
675	60	1586						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER W. FORSYTHE	8					8
HELPER E. DRUMMOND	8					8
HELPER D. STEWART	8					8
A. Cochrane	8					8
TOTAL						

8 A.M.

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig service	12 00	12 15	1/4
	Check B.O.P's	12 15	12 45	1/2
	MAKE UP CORE bbl.	12 45	1 45	1
	Run in hole	1 45	4 15	2 1/2
	Circulate	4 15	5 15	1
	Coring	5 15	8 00	2 3/4
	DRILLER Forsyth.			

COMPANY TIME..... CONT'R TIME.....

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION MILLS LAKE I57 DATE Feb 12/67

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	1586	1600	/	/	/	/	/	/	

TOUR 2 TO

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			#5	6 3/16	Diam	7018C	8000	70	20		11 3/4		1/4	

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	53	55	63	70
VISC.	45	9.5	9.5	9.5
GEL.				

8 A.M.

W.L. 8.5 19 F.C. 2/32 P.H. 8

ADDITIVES: WATER ..... GALS.
1. —
2. —
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
675	60	1586	700	60	1595	—	—	—

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	—	—	—	TEMPERATURE:	-42	-20
W. TRUCK	—	—	/	WIND VELOCITY:	nil	
MOB. PUMP	—	—	—	RAIN, SNOW, FOG, ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Connor	8					8
HELPER G. Bonnar	8					8
HELPER E. D. Ford	8					8
L. Garnier	8					8
TOTAL						

4 P.M.

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Coring	4 00	9 45	
	Work on pump	9 45	10 45	
	Coring	10 45	4 00	
	Repair Shaker screen and motor			
	Repair Weight indicator			
	Rig Service			
	Waiting for Trip.			
	NO SHALE SHAKER			
	DRILLER Dennis Connor			

COMPANY TIME..... CONT'R TIME.....

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	1600	1609	/	/	/	9	/	/	/

TOUR 3 TO

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5	6 3/16	O	7018C	8000	100	29	X	17 1/2 / 15 1/2	X	X	X

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.6	9.6	9.6	
VISC.	54	60	61	
GEL.				

4 P.M.

W.L. 9. F.C. 2/32 P.H. 8

ADDITIVES: WATER ..... GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
750	64	1601	750	64	1608	/	/	/

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	7	/	/	TEMPERATURE:	-24	-36
W. TRUCK	/	/	/	WIND VELOCITY:	still	
MOB. PUMP	/	/	/	RAIN, SNOW, FOG, ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER K. Brennan	8					8
HELPER Ed. Pratt	8					8
HELPER Charlie Hoskins	8					8
D. Gagnon						0
TOTAL						

MIDN.

INJURIES AND REMARKS:

Pulled at 1609
left 6pt on Kelly

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Cutting Core #10	4 00	9 45	5 3/4
	Break Core Free	9 45	10 00	1/4
	Service Rig Change	10 00		
	Batterys in Mack		11 00	1
	Pull out with ~~Core~~	~~11 00~~		
	~~Core #1~~		~~12 00~~	~~1~~
	Fix Breaks	11 00	12 00	1
	NO SHALE SHAKER.			
	DRILLER Ken Brennan			

COMPANY TIME..... CONT'R TIME.....

TOTAL CONTRACT TIME..... HRS. TOOLPUSHER OR DRILLER i/c.....

TOTAL COMPANY TIME..... HRS. APPROVED BY Ted Whittegham

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Mills Lake 157 DATE Feb 11 67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	157	~~1525~~ 1525	1539				14			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			3	6 1/4	Ream JA		12M	66	27		5 1/4			
			4	6 1/4	YTL	ED5015	12	95	—		1/2			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				9.5
VISC.				42
GEL.				
W.L. 7.7 F.C. 2/32 P.H.				

ADDITIVES: WATER _____ GALS.
1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	8			TEMPERATURE:	-40	-40
W. TRUCK				WIND VELOCITY:	still	still
MOB. PUMP				RAIN, SNOW, FOG, ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brannon						8
HELPER C. Pratt						8
HELPER Doug Hashem						8
David Horgan						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST				CLASS	REMARKS	TIME		
FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.				START	STOP	INTERVAL
					Work on pump.	12 00	12 30	
					Service Rig			1/2
					Drill	12 30	2 30	2
					CIRCULATE SAMPLE	2 30	3 00	
					Pull out.	3 00		
					Set up breaks		4 00	1
					Finish opening pipe	4 00		
					RRMS. START MAKE		5 00	1
					Run in collars	8 30		
					Lay weight			
					Set up Kelhead.			
					Run pipe.	6	6 45	1 3/4
					Break Circ.	6		
					Clean 4 Ft. Fill on			
					Bottom		7 30	1/2
					Drill	7 30	8 00	1/2
					DRILLER Ken Brannon			
					COMPANY TIME _____ CONT'R TIME _____			

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	1539	1566				27			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			4	6 1/4	YTL	E05075	12	130	28		7 3/4			RUNNING

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.5	9.3	9.3	9.3
VISC.	58	42	48	56
GEL.				
W.L. 6.5 F.C. 2/32 P.H. 8				

ADDITIVES: WATER 15 BBLS. GALS.
1. 8 SX SALT GEL
2. 50# PLASTER
3. 25# PRESERVATIVE

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
200	45	1550	200	45	1566			

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. GRUMMUND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME		
		START	STOP	INTERVAL
	DRLG 6 1/4 HOLE	8 00	9 00	1
	RIG SERVICE CHECK B.O.P.'s.	9 00	9 45	3/4
	DRLG 6 1/4 HOLE	9 45	4 00	6 1/4
				8
	DRILLER WM Forsyth			
	COMPANY TIME _____ CONT'R TIME _____			

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1566	1570							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			4	6 1/4	HTC		12	130						

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.3			
VISC.	53	55	61	
GEL.				
W.L. 7.4 F.C. P.H. 9.5				

ADDITIVES: WATER _____ GALS.
1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
200	45	1570						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 P.M.
DRILL				TEMPERATURE:	-18	+25
W. TRUCK				WIND VELOCITY:	mod	mod
MOB. PUMP				RAIN, SNOW, FOG, ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conn						8
HELPER E. Gregory						8
HELPER E. Jessard						8
R. Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME		
		START	STOP	INTERVAL
	Drilling 6 1/4 hole	4 25	8 25	4
	Circulate hole and	8 00		
	prepare to trip		9 00	
	Recovery	9 00	9 30	
	Trip out	9 30		
			10 45	
	Making up Core Bbl.	10 45	12 05	
	DRILLER Dennis Conn			
	COMPANY TIME _____ CONT'R TIME _____			

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Grubb Lake 157 DATE Jan 10/77

TOUR 1 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	157	1245	1440				195	—	—	—

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		2	6¼	DT	38539	12 M	130	37.3	—	16¼	in		in

MUD	12 MN.	2 A.M.	4 A.M.	6 A.M.
WT.	9.5	9.7	9.8	9.8
VISC.	42	44	43	43
GEL.				

W.L. 11 F.C. 1/32 P.H. 3.0

ADDITIVES: WATER _____ GALS.
1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH
200	48	1245	200	48	1350	1321	¼	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-35	-44
WIND VELOCITY:	calm	—
RAIN, SNOW, FOG, ETC.	clear	—

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed Pratt						8
HELPER Charlie Thomas						8
David Borgan						8
TOTAL						

INJURIES AND REMARKS: DAVID GARGAN S.I. No 613-282-904

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drill	12 00	3 00	3
	Service Rig survey	3 00	3 30	½
	Drill	3 30	8 00	4½

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	1440	1511	~~—~~			71			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		2	6¼	DT	38537	12	130	54.4		22¾			?

MUD	8 A.M.	10 A.M.	12 N'n.	2 P.M.
WT.	10.2	10.4	9.4	9.3
VISC.	42	42	80	100
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. 8 sks GLAISTER 400 LBS
2. 23 sks STARCH
3. 20 LBS PRESERVATIVE

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH
			200	48		1511	¾	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	-44	-20
WIND VELOCITY:	N/L	
RAIN, SNOW, FOG, ETC.	N/L	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COSHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRLG 6¼ HOLE			
	RIG SERVICE, PUMPS			
	DRLG & MIX MUD			
	SURVEY			
	TRIP BIT @ 1511			
	RIG KELLY CIRC IN			
	ON STRIPPER START.			

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		7A	6¼	Hughes	38726	12	130			2¼			

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WT.	Drop			9.2
VISC.				38
GEL.				

W.L. 6 F.C. _____ P.H. _____

ADDITIVES: WATER 10 BBLS GALS.
1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	Σ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 P.M.
TEMPERATURE:	-20	-24
WIND VELOCITY:	calm	light
RAIN, SNOW, FOG, ETC.	Clear	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Travis Comm						8
HELPER R Borgan						8
HELPER E W Ford						8
L Bernier						8
TOTAL						

INJURIES AND REMARKS:

Heavy mud formed ice plugs on every trip. Slow tripping.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Finish trip out	4 00	~~5 45~~	
	Change bit and trip, collars broken	5 45	6 30	
	Service	6 30	7 00	
	Trip in	7 00	9 20	
	Break circulation	9 20	9 45	
	Drilling conditions mud	9 45		

DRILLER Travis Comm

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Grills Lake 1.52 NWT DATE Feb 9/67

TOUR 1

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		684	968				284			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6 3/4	DT	38724	4-9-11	200	618		18 3/4	IN		

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	9.3	9.3	9.4	9.2
VISC.	45	44	42	36
GEL.				

W.L. 1.4 F.C. 1/32 P.H. 8.0

ADDITIVES: WATER 20 bbls GALS.
1. 10 SAX Super Col
2. 1 CMC
3.

PUMP PRESS	PUMP SPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY DEPTH
350	64	694	350	64	845	950	1/4	845-7/8

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-4	-10
WIND VELOCITY:		still
RAIN, SNOW, FOG; ETC.		clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennon						8
HELPER G. Pratt						8
HELPER Charlie Hawkins						8
Bob Nicol						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / PUMP TEST DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drill	12:00	2:30	2 1/2
	Service Rig Survey	2:30	3:00	1/2
	Drill	3:00	5:15	2 1/4
	Survey at 845-1/8	5:15	5:45	1/2
	Drill	5:45	8:00	2 1/4

DRILLER Ken Brennon

COMPANY TIME CONT'R TIME

TOUR 2

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		968	1110				142			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6 1/4	OT	38724	12	200	717		21 1/2		6-	5-1
			2	6 1/4	OT	38537	8	185	43		1 1/2			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	9.3	9.3	9.8	
VISC.	92	47	48	
GEL.				

W.L. 4 F.C. 2/32 P.H. 8

ADDITIVES: WATER GALS.
1. SUPERCOL 6 SKS.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY DEPTH
350	64	1000	175	50	1110	1035	3/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT-
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED DRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRLG 6 1/4 HOLE	8:00	8:45	3/4
	REPAIR SHALE SHAKER	8:45		
	CORD & RIG SERVICE		9:45	1
	DRLG 6 1/4 HOLE SURVEY	9:45	11:45	2
	HOIST CHANGE BIT	11:45	12:30	3/4
	BIT change @ 1067 FT	12:30		
	CLOSE BLIND RAMS,			
	CHECK DIFF RAMS WORKING OK, DRAIN & CLEAN OUT.		1:45	1 1/4
	MUD TANK. RUN IN W/BIT.	1:45		
	BREAK CIRC		2:30	3/4
	DRLG 6 1/4 HOLE	2:30	4:00	1 1/2
				8

DRILLER Wm Forsyth

COMPANY TIME CONT'R TIME

TOUR 3

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	157	1110	1245				135			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			2	6 1/4	IT	38537	8	175	178	—	8 3/4	in		
							12	175						

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.2	9.4	9.4	9.4
VISC.	35	38	35	43
GEL.				1110

W.L. 9 F.C. P.H. 10

ADDITIVES: WATER GALS.
1. 25 lbs 726 105 CMC
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY E LOG TO DEPTH
150	48	1100				1160	1/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 P.M.
TEMPERATURE:	-10	-25
WIND VELOCITY:	nil	nil
RAIN, SNOW, FOG; ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER G. Boone						8
HELPER E. Ford						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 6 1/4 hole	4:00	4:45	3/4
	Service rig, check fuel and rope rams set up			
	Pick up and Strap bha	4:45	5:30	3/4
	Drilling	5:30	7:15	1 3/4
	Connection Survey	7:15	7:45	
	Drilling	7:45	12:00	4 1/4

DRILLER Dennis Comm

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 12 LOCATION Grills Lake I 57 N.W.T. DATE Feb. 8

TOUR 1 — FROM 8 A.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	I57	311	332				21			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	6¼	DT	38724	1000	85-100	21	4				

MUD

	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. _____
2. _____
3. _____

PUMP

PRESS	RPM	DEPTH

PUMP

PRESS	RPM	DEPTH

SURVEY

AT	DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	8			TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brunnon						8
HELPER C. Pratt						8
HELPER Charlie Barker						8
S. Connor						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
		PRESSURE BLIND Rams 1200 P.S.I
		FOR 30 MINS. O.K.
		PRESSURE 4½ Rams 1200 P.S.I
		FOR 30 MINS. O.K.
		PRESSURE HYDRIL 1200 P.S.I FOR
		30 MINS. O.K.
		CHANGE NIPPLE IN VALVE ON
		KILL LINE.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig up Pump	12	1 30	1½
	Pressure up on Blind rams to 1200 lbs for 30 min	1 30	2 00	
				½
	Run in with Bit	2 00	2 30	½
	Pressure pipe rams	2 30	3 00	½
	Pressure Hydril	3 00	3 30	½
	Finish in to top of cement plug	3 30	3 00	½
	Drill on cement at 306	3 00		
	[illegible]		8 50	4

DRILLER Ken Brunnon

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — FROM 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	350	478				128			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	6¼	OT	38724	4	165	128		5			IN

MUD

	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.		WATERED		
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. BICARB 100#
2. SUPERCOL 8 SKS
3.

PUMP

PRESS	RPM	DEPTH
226	63	350

PUMP

PRESS	RPM	DEPTH
225	63	407

SURVEY

AT	DEG.	E LOG TO DEPTH
466	1¼	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL: Holding Back on Wieght to get Hole straight

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	FINNISH RAR OUT	8.00	5	
	CEMENT + SHOE		9.15	1¼
	DRLG 6¼ HOLE	8.45	9.15	1
	R.J. SERVICE CHECK	9.15		
	ALL CONNECTION ETC			
	STARTING CUMMINS		10.30	1¼
	DRLG 6¼	10.30	11.45	1¼
	CONN + SURVEY	11.45	12.15	½
	DRLG 6¼	12.15	2.30	2¼
	SURVEY, DUMP MUD	2.30		
	TANK + DISPLACE HOLE		3.30	1
	TO WATER	3.30	4.00	½
	DRLG 6¼ + MIX MUD			8

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — FROM 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	478	695				206			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	6¼	OT	38724	4-8	165	334		11¾			

MUD

	4 P.M.	6 P.M.	8 P.M.	TOP M.
WT.		8.5		9.2
VISC.		42	47	45
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. SUPERCOL 5 SKS
2. C.M.C. 50#
3.

PUMP

PRESS	RPM	DEPTH
300	63	528

PUMP

PRESS	RPM	DEPTH

SURVEY

AT	DEG.	E LOG TO DEPTH
528 / 649	1¼ 1½	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	8			TEMPERATURE:	-4	-4
W. TRUCK				WIND VELOCITY:	Calm	
MOB. PUMP				RAIN, SNOW, FOG; ETC.	clear	

GENERAL: Holding Back on weight

Survey 654 - ½

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER A. CONN						8
HELPER G. BONNAR						8
HELPER E. DE FORD						8
L. BARNIER						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRLG 6¼ + MIX MUD	4.00	4.45	¾
	RIG SERVICE	4.45	5.00	¼
	DRLG 6¼	5.00	7.00	2
	CONN + SURVEY	7.00	7.30	½
	DRLG 6¼ HOLE	7.30	8.00	½
	Survey	8.00	8.15	¼
	Drill	8.15	10.45	2½
	Survey	10.45	11	¼
	Drill	11	12	1

DRILLER Dennis Conner

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Mills Lake I-57 NWT DATE Feb 7/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb 7 68

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER C. Pratt						8
HELPER Charlie Haskins						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT. / TIME	TO FT.	RATE IN 16PM	PUMP TEST DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Left out Rod	12 00		
	Turn over spaces			
	Put survey Braces			
	on Stab			
	Take Rubber hose			
	off Hydill make			
	up End put on			
	Steel Sleeve			
	Bolt down Rod and			
	front Bumper on			
	Mech.		6 00	
				8
	DRILLER Ken Brennan			
	COMPANY TIME CONT'R TIME			

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	NWT								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.M.

ADDITIVES: WATER GALS.

1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER CARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	SERVICE BOILER & LIGHT PLANT, MAKE UP 1" PIPE FOR HYDRIL LINES, WAIT ON MOTOR ACCESSORIES WELDING THROTTLE LINKAGE, CHECK TIGHTEN UNIVERSAL BAKER PUMP LINES	8.00		
	INSTALLING PARTS ON OLD BLOCK ASSEMBLY		2.00	6
	INSTALLING ACCESSORIES ON NEW BLOCK	2.00	4.00	2
				8
	DRILLER Wm Forsyth			
	COMPANY TIME CONT'R TIME			

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Cossa						8
HELPER L. Bonyon						8
HELPER C. De Ford						8
L. Garnier						
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WORKING ON CUMMINS INSTALLING TRANS BOLTS FAN NEW OIL LINES HEATING UP COLD MOTOR IN PREPARATION TO START Start Cmotor for Hydril Unit	4.00		
	DRILLER Dennis Cossa			
	COMPANY TIME CONT'R TIME			

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION Grizzly Lake I-57 N.W.T. DATE Feb. 6

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE Feb. 6/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 12MN. | 2A.M. | 4 A.M. | 6 A.M.

WT. VISC. GEL. W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH — PUMP: PRESS | RPM | DEPTH — SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brannon						8
HELPER Charlie Haskins						8
HELPER						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	START	STOP	INTERVAL
	Drill out holes in Bell housing install new pilot bearing in clutch. Jack bell housing into position wait for mechanics OK before bolting down weld load pads in corner of bond rails ~~weld~~ make up bolt board for 3/4 inch sockets Grade up ~~bolt~~ bolt board for screw drivers	12⁰⁰		
	Build fire to thaw ditch between pits		8⁰⁰	8⁰⁰
	DRILLER Ken Brannon			
	COMPANY TIME CONT'R TIME			

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	347								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 8 A.M. | 10A.M. | 12 N'n. | 2 P.M.

WT. VISC. GEL. W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH — PUMP: PRESS | RPM | DEPTH — SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm Forsyth						8
HELPER E.O. Edmund						8
HELPER Darrell Stewart						8
Arnold Cochrane						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
	SERVICE LIGHT PLANT & BOILER, FIND NEW CAPSCREWS FOR TRANS. INSTALLING TRANS. NO PILOT SHAFT, PUTING EQUIPMENT BACK IN PLACE, MAKING CHANGE OVERS, ETC.	8.00		
	DIG DITCH BETWEEN PITS.		4.00	4
			8	8
	DRILLER Wm Forsyth.			
	COMPANY TIME CONT'R TIME			

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 4 P.M. | 6 P.M. | 8 P.M. | 10P.M.

WT. VISC. GEL. W.L. F.C. P.H.

ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH — PUMP: PRESS | RPM | DEPTH — SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER E. Bonnar						8
HELPER E. DeJarlais						8
Larry Lassen						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
		4:00		
	Put on Bumper and rad, installed hoses			
	Try to bolt down Pad won't go into place Try to jack engines into mount holes Line up won't weld.		12	8
	DRILLER Dennis Comm.			
	COMPANY TIME CONT'R TIME			

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT ~~NO~~ Tear down

RIG. NO. 11 LOCATION Mills Lake I-57 N.W.T. DATE FEB 5/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION FT. PROVIDENCE DATE Feb 5/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — WT. — VISC. — GEL. — W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.
1. ____
2. ____
3. ____

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	0			TEMPERATURE:	-26	-26
W. TRUCK	8			WIND VELOCITY:	still	
MOB. PUMP				RAIN, SNOW, FOG, ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER G. Pruft						8
HELPER Craig's Hoskins						8
C. De Sord						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST			
FROM FT. / TIME	TO FT. / TIME	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig up crew to flow line from floor line	8 00		
	Make connection for end of flow line			
	Set crew on watch on motor to come from Calgary.		8 00	
				8

DRILLER Ken Brennan

COMPANY TIME ____ CONT'R TIME ____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	347								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — WT. — VISC. — GEL. — W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.
1. ____
2. ____
3. ____

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	CHANGE SHAKER SCREEN & WAIT ON MOTOR, FINNISHING UP FLARE LINE	8.00	10.00	2
	INSTALLING MOTOR	10.00	4.00	6
				8

DRILLER Wm Forsyth

COMPANY TIME ____ CONT'R TIME ____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — WT. — VISC. — GEL. — W.L. ____ F.C. ____ P.H. ____

ADDITIVES: WATER ____ GALS.
1. ____
2. ____
3. ____

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Coonan						8
HELPER G. Brennan						8
HELPER C. De Sord						8
L. Farmer						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Wed. Motor	4 00	12 00	8
	Install Ironsmution Ball holes different in new motor ~~Take~~ take out Drill out to match holes in motor Steam clean rig floor			

DRILLER Dennis Coonan

COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME ____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT ~~NO.~~ REPAIR

RIG. NO. 12 LOCATION Small Lake I 57 DATE Feb. 4 67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb. 4/67

TOUR 1 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — 12MN. — 2A.M. — 4 A.M. — 6 A.M.

WT.
VISC.
GEL.
W.L. _____ F.C. _____ P.H. _____
ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH
PUMP: PRESS | RPM | DEPTH
SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL	0			TEMPERATURE:	-38	
W. TRUCK	8			WIND VELOCITY:	calm	
MOB. PUMP				RAIN, SNOW, FOG; ETC.	clear	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed Pratt						8
HELPER Gene Perkins						8
Larry Garnier						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Lay flow line	12 00		
	Install flow nipple			
	test Baker pump			
	to see if rams come			
	closed and open			
	clean up rig			
	swivel on motor			
	parts		8 00	
				8

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — TO — 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	347								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — 8 A.M. — 10A.M. — 12 N'n. — 2 P.M.

WT.
VISC.
GEL.
W.L. _____ F.C. _____ P.H. _____
ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH
PUMP: PRESS | RPM | DEPTH
SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WORKING ON MACK	8:00		
	TRYING TO START			
	HERMAN NELSON			
	FINDING PARTS TO			
	HOOK UP RISER TO MUD			
	TANK & FLOOR		4:00	8
				8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD — 4 P.M. — 6 P.M. — 8 P.M. — 10P.M.

WT.
VISC.
GEL.
W.L. _____ F.C. _____ P.H. _____
ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP: PRESS | RPM | DEPTH
PUMP: PRESS | RPM | DEPTH
SURVEY: AT | DEG. | E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER DENNIS COMM						8
HELPER G. BONNAR						8
HELPER EUGENE DEFORD						8
LARRY GARNIER						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Same as above	4 00	12 00	8
	working with			
	mechanics on Mack			
	Cut off transmission			
	Bell housing pull out			
	motor.			
	Clean up rig.			

DRILLER Dennis Comm

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME _____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Wells Lake 1-17 DATE Feb 3/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb 3/67

TOUR 1 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		1-17								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 12MN. | 2A.M. | 4 A.M. | 6 A.M.

WT. / VISC. / GEL. / W.L. F.C. P.H.

ADDITIVES: WATER GALS. 1. 2. 3.

PUMP: PRESS | RPM | DEPTH

PUMP: PRESS | RPM | DEPTH

SURVEY: AT | DEG. | ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Corman						8
HELPER D. Rougeau						8
HELPER C. LaFond						8
L. Bannier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Keeping UP B&R's And Tool up Around Rig	10	8 00	
	DRILLER Dennis Corman			
	COMPANY TIME: CONT'R TIME:			

TOUR 2 — TO — 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	not	drilling							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 8 A.M. | 10A.M. | 12 N'n. | 2 P.M.

WT. / VISC. / GEL. / W.L. F.C. P.H.

ADDITIVES: WATER GALS. 1. 2. 3.

PUMP: PRESS | RPM | DEPTH

PUMP: PRESS | RPM | DEPTH

SURVEY: AT | DEG. | ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	1			TEMPERATURE:	-22	-16
W. TRUCK				WIND VELOCITY:	Still	still
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER G. Beaty						8
HELPER D. Ford						-8
Charlie Hoskins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up Flow Nipple	8 00	9 00	1
	Rpint pump Motor Stoped	900		
	Tear off Head & oil pan START To Tear down Mack To TAKE out Motor		4 00	
	DRILLER Ken Brennan			
	COMPANY TIME: CONT'R TIME:			

TOUR 3 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	347								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD: 4 P.M. | 6 P.M. | 8 P.M. | 10P.M.

WT. / VISC. / GEL. / W.L. F.C. P.H.

ADDITIVES: WATER GALS. 1. 2. 3.

PUMP: PRESS | RPM | DEPTH

PUMP: PRESS | RPM | DEPTH

SURVEY: AT | DEG. | ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:	-18	-28
W. TRUCK				WIND VELOCITY:	0AM	
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Cold	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER W/m FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WORKING g/MACK TO TAKE OUT CUMMINS DIESEL	4.00	12.00	8
				8
	DRILLER W/m Forsyth			
	COMPANY TIME: CONT'R TIME:			

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / TIME	RATE IN GPM	DESCRIPTION / DEPTH TO WATER IN FT.

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG NO. 17 LOCATION C.D.R. [illegible] 1-57 DATE Feb 21/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Feb 21/67

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57									

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD: 12 MN., 2 A.M., 4 A.M., 6 A.M. — WT., VISC., GEL., W.L., F.C., P.H.

ADDITIVES: WATER ____ GALS. 1. 2. 3.

PUMP: PRESS, RPM, DEPTH, PRESS — PUMP: RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	-10	-10
WIND VELOCITY:	10	nil
RAIN, SNOW, FOG, ETC.	Snow	Snow

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conn						8
HELPER G. Bonner						8
HELPER D. Ford						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST — FROM FT./TIME, TO FT., RATE IN 16PM, DESCRIPTION, DEPTH TO WATER IN FT.

CASING
Japanese 7" 20"
Range 3 S.T.&C. J55
Float Shoe 1.30
(1) 40.15
(2) 42.76
(3) 42.44
(4) 41.57
(5) 41.78
(6) 41.90
(7) 42.30
(8) 42.74

CLASS	REMARKS	START	STOP	INTERVAL
	Digging Cellar to get	12⁰⁰		
	clamp on Casing and			
	prepare to Cement		1³⁰	
	Cement	1³⁰	1⁴⁵	
	Nipple up to circulate	1⁴⁵		
	Weld flow line and		6⁰⁰	
	[illegible] and [illegible] up			
	Circulate	6⁰⁰	8⁰⁰	

DRILLER Dennis Conn
COMPANY TIME ____ CONT'R TIME ____

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD: 8 A.M., 10 A.M., 12 N'n., 2 P.M. — WT., VISC., GEL., W.L., F.C., P.H.

ADDITIVES: WATER ____ GALS. 1. 2. 3.

PUMP: PRESS, RPM, DEPTH, PRESS — PUMP: RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH — Down

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	-4	-2
WIND VELOCITY:	calm	
RAIN, SNOW, FOG, ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed Pratt						8
HELPER Glen Foley	went to SEE Doctor		HAY River			8
Charlie Hoskins						8
TOTAL						

INJURIES AND REMARKS:

Total 336.94
Insert Float @ 311 FT
SHOE @ 346.09 K.B.
K.B. 9.30 ft above G.L.

RAN 120 sks portland
normal Canada cmt.
w/ 2% $CaCl_2$
RAN 9 bbls pipe sweep
ahead of cmt.
Displaced w/ 12.5 bbls water.
Plug down @ 1.52 A.M.

No Returns.

TEMPERATURES

Outside air	-10°
mud while drilling	41°
mud while circ. casing	39° (suction)
mud returning circ casing	41°
Dry cement	-8°
Makeup water	108°
Slurry	78°
Displacement water	103°
Mud returns while cmtg	48°
Cement returns	52°

CLASS	REMARKS	START	STOP	INTERVAL
	Circulate hot water	8⁰⁰		
	in casing		1230	4½
	9 pull out pipe back off	12³⁰		
	landing jt.			1½
	Run 1¼" pipe outside			
	casing to 135'		2⁰⁰	
	& Cementing with BJ	2⁰⁰	2⁴⁵	¾
	pull out tremmie pipe	2⁴⁵	3⁰⁰	¼
	W.O.C.	3⁰⁰	4⁰⁰	1.0

FELT TOP OF CEMENT @ 135'
RAN 90 SACKS CEMENT ON OUTSIDE
OF CASING THROUGH 1¼ PIPE. 2%
$CaCl_2$. GOOD RETURNS. 2:45 P.M.

DRILLER KEN BRENNAN
COMPANY TIME ____ CONT'R TIME ____ 8.0

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD: 4 P.M., 6 P.M., 8 P.M., 10 P.M. — WT., VISC., GEL., W.L., F.C., P.H.

ADDITIVES: WATER ____ GALS. 1. 2. 3.

PUMP: PRESS, RPM, DEPTH, PRESS — PUMP: RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMUND						12
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

Temperature circ water inside casing (Returns / Suction)

Time	Returns	Suction
6⁰⁰ A.M.	65°	73° (Suction)
6.30	77°	82° Temp
7.00	85°	90°
7.30	99°	99°
8.00	95°	104°
8.30	104°	110°
9.00	105°	114°
9.30	110°	114°
10.00	110°	115°
10.30	109°	109°
11.00	106°	109°
11.30	109°	110°
12.00	109°	110°

Returns →

CLASS	REMARKS	START	STOP	INTERVAL
	W.O.C.	4⁰⁰		
	BAILED CELLAR			
	MIX 16 SXS CEMENT			
	FOR CELLAR FLOOR.			
	SPOT MUD TANK, REPAIR			
	GATE, WORK ON MUD PUMP,		10.³⁰	6½
	START NIPPLEING UP.	10³⁰	12⁰⁰	1½
				8

DRILLER Wm Forsyth
COMPANY TIME ____ CONT'R TIME ____

TOTAL CONTRACT TIME ____ HRS. TOOLPUSHER OR DRILLER i/c [illegible signature]

TOTAL COMPANY TIME ____ HRS. APPROVED BY [illegible signature]

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION Wells Lake 1-57 DATE Jan 1 67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	297	312							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			5A	9⅞	FP	50430	4	175		75	13.5			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	10.1	10.1	10.3	10.2
VISC.	52	54	54	54
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
175	65	300				13-312		

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	- 5	
WIND VELOCITY:	mod	
RAIN, SNOW, FOG: ETC.	Cloudy	

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Cowan						8
HELPER M Brennan						8
HELPER E. De Jong						8
L Hannis						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling ahead from 297	12:00	1:30	
	Connection and Tighten			
	and survey	1:30	2:00	
	Pull back 3 stands	2:00		
	for bit to strengthen		3:00	
	Trip to change to Pilot	7:00		
	bit		8:00	

DRILLER Dennis Cowan

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	I-57	312	350				38			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			7P	9⅞	DT	66899	30	200	35	35	2½	Running		

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	10.5			
VISC.	52			
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
350	72	340				342	1	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG: ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER Ed. PART						8
HELPER Charlie Haskins						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS: Glen Foley hit by Tong when makeup line broke

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Finish in with 6¼ BJ	8:00		
	Break circ		8:15	¼
	Drill	8:00	9:00	1
	Service Rig Survey	9:00	9:30	½
	Drill	9:30	10:00	½
	Pull out Run Survey	9:30	12:00	
	at 345			
	Drill Ream	12:00	2:00	2
	Trip Dummy	2:00	3:15	1¼
	Drill Ream	3:15	4:00	¾

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	REAM	342	347				5			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			7A	9⅞	OT	66899	3000	175		40	3			FAIR

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
						347	1°	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG: ETC.		

GENERAL:

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Ream 9⅞	4:00	4:30	½
	Circ Hole Clean	4:30	5:00	½
	Survey & Hoist	5:00		
	Break Bit Drain			
	Kelly Hose		6:30	1½ ✓
	Pump Water to B.T.	6:30		
	w/ Rig Pump & Rig to Run			
	5" C.S.G.		7:30	1
	Run 7" C.S.G.	7:30	9:45	2¼ ✓
	Rig to Circ Circ	9:45	11:00	1¼
	Dig Cellar for Clamp	11:00		
	& Jet Pits, Rig to			
	Cement, Drain Pump		12:00	1

Reciprocate Pipe Scratchers 3/4 Hr

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER

TOTAL COMPANY TIME _____ HRS. APPROVED BY Ted Mullington

STRATIGRAPHIC LOG / PUMP TEST

FROM FT./TIME	TO FT./	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.
			Went to bit 4000#

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION CDR - Mills Lake I-57 N.W.T. DATE Jan 31/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE Jan 31/67

TOUR 1

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:	- 5	- 10
W. TRUCK				WIND VELOCITY:	nil	W
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Cloudy	Clear

GENERAL:

MIDN. 8 A.M.

TO

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Tom Comm						8
HELPER A Brennan						8
HELPER E DeFord						8
L Garnier						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Thaw out Kelly Valve hose Standpipe Suction and Centrifugal Pump and wash on Repairs	12 00	8 00	4 00

DRILLER Tom Comm

COMPANY TIME _____ CONT'R TIME _____

TOUR 2

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	E57	200	233				23			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		5A	9 7/8	D.T.	60420	2M	165		23	1 1/2			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	1	1	10+	9.5
VISC.			50	35
GEL				

W.L. _____ F.C. _____

ADDITIVES: WATER 1 load water GALS.

1. _____

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
150								

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT D.T.	WEATHER	8 A.M.	NOON
DRILL	9		1/2 gal	TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

8 A.M. 4 P.M.

TO

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken BRENNEN						8
HELPER Ed. PRATT						8
HELPER CHARLIE HOSKINS						8
GLEN FOLEY						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Service Rig	8 00	8 30	1/2
	Prime Pump hook up Mud lines	8 30		
	Run IN Bit No 5 to Top of point Hole circulate condition Mud while waiting on repairs		2 00	
	Tested New U. Joint	2 00	2 30	
	Ream to 9 7/8" hole (Weight 2000)	2:30	4:00	
	T			

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 3

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	REAM	233	283				53			
		ORIG	283	297				14			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		5A	9 7/8	D.T.	60420	2	175	14	73	1			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.5	9.6	9.8	9.9
VISC.	33	37	48	47
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. GEL 2300

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
175	65	291				253 283	1° 1/2°	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

4 P.M. MIDN.

TO

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRAUMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rig Service	4 00	4 15	1/4
	Ream 9 7/8 Hole From 6 1/4	4 15	5 00	3/4
	Survey & Conn	5 00	5 15	1/4
	Mix Mud To Raise Visc	5 15	6 45	1 1/2
	Ream To 9 7/8 From 6 1/4	6 45	9 45	3
	(Conn & Survey)	9 45	10 15	1/2
	Orig 9 7/8	10 15	13 00	3 1/4

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION C.D.R. mills Lake 1-57 DATE Jan 30/67

TOUR 1

LT:	LF: 8 3/4	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF WT.	LOST DRILL TIME WAIT ON WATER
AF: 12 3/4 AT		1-57	131	161							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		3A	9 7/8	Reed	37616	1000	175			~~3~~ Hrs.			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.	10.5	10.4	10.4	10.4
VISC.	50	50	52	48
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50	55	131	50	65	165	154	1°	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	+15	-20
WIND VELOCITY:	0	0
RAIN, SNOW, FOG, ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Connor						8
HELPER G. Bonner						8
HELPER C. D. Ford						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

Bad boulder at 135'

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Survey	12 00	12 15	1/4
	Pump Sweep	12 15	12 45	
	Drill ahead slowly to straighten hole	12 45	6 ~~45~~ 65	
	Connection D.C.'s and Survey	6 45	6 30	
	Pump Sweep	6 30	7 00	
	Drill ahead Steadily	7 00	8 00	

DRILLER Dennis Connor

COMPANY TIME _____ CONT'R TIME _____

TOUR 2

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF WT.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1-57	161	210				49			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		3A	9 7/8	JTR	37616	3000	175						

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	10.3	10.4	10.4	1/2
VISC.	38	41	40	1/2 P
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. N-1
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	64	170	100	64	200	190	1/2	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.	YES	

GENERAL: Generator in Crush don't work.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed. Prate						8
HELPER Charlie Heskins						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Service Rig	8:00	8 30	1/2
	Drill holding back weight	8 30	11 30	3 00
	Survey Replace Kelly side break circ. pressure to 1200 pounds.	11 30	12 15	3/4
	Drill 9 7/8 hole	12 15	1 00	3/4
	Lighten Sweage in	1 00		
	Swivel START NBCK		2 15	1 1/4
	~~Drill~~ Clean out section in pit prime pump Drill on	2 15	2 45	1/2
	Boulders pull out to Piton 6 1/4" Bit.	2 45	3 15	1/2
		3 15	4 00	

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 3

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF WT.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	210	283				73			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		4A	6 1/4	YSI	E17168	4	175	73		4			OOLL

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	44	44	44	
VISC.	101	101	101	
GEL				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
						220	1/4	
						250		

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	4 P.M.	8 A.M.
TEMPERATURE:	0 —	
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	BREAK CIRC & RIG SERVICE	4.00	4.30	1/2
	DRLG 6 1/4 HOLE (Boulders)	4.30	5.00	1/2
	CONN & SURVEY @ 220'	5.00	5.30	1/2
	DRLG 6 1/4 HOLE PILOT	5.30	7.00	1 1/2
	SURVEY @ 250'	7.00	7.15	1/4
	DRLG 6 1/4 PILOT HOLE	7.15	9.00	1 3/4
	CONN & SURVEY @ 280'	9.00	9.30	1/2
	DRLG	9.30	9.45	1/4
	HOIST TO CHANGE BIT	9.45	10:15	1/2
	BROKEN U JOINT.	10:15		
	REPAIRS IN STOCK WRONG ONES		12 00	2 1/4

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG NO. 17 LOCATION C.O.R. Mills Lake L-1 N.W.T. DATE Jan 29/67

TOUR 1 — TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		0	65							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8	DT	66816	all	75	65		7			

MUD	12 MN.	2 A.M.	4 A.M.	6 A.M.
WT.				
VISC.	55	65	65	70
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50	75							

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:	-15	-20
W. TRUCK				WIND VELOCITY:	nil	
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Connor						8
HELPER G. Bonser						8
HELPER E. DeJong						
R. Garnier						8
TOTAL						

INJURIES AND REMARKS:

TOUR 2 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		65	125				60			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			2A	9 7/8	DT	R.R.	4	80	60				in hole	

MUD	8 A.M.	10 A.M.	12 N'n.	2 P.M.
WT.	8.9+	9.3	9.3	9.3
VISC.	41	33	33	33
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER 1 load - 400 GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	64	125	100	64		75 100	1/2 3/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL	8			TEMPERATURE:	-15	-5
W. TRUCK				WIND VELOCITY:	—	—
MOB. PUMP				RAIN, SNOW, FOG; ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed Pratt						8
HELPER Charlie Hackman						8
Glen Lahey						8
TOTAL						

INJURIES AND REMARKS:

TOUR 3 — TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	2	125	130				5			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			2A	9 7/8	DT	RR.	2	175	65		5 3/4			
			3A	9 7/8	REED	037616		175		130	8 3/4			

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WT.				
VISC.	37		45	
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1. GEL 1000#				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	65					130	1 1/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL: REAMING TO STRAITEN HOLE.

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARREL STEWART						8
ABNDLO CUSHRANE						8
TOTAL						

INJURIES AND REMARKS:

STRAIGHTEN TO 1° FANNING 0-130

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

TOUR 1

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling Kelly down Using reaming Drilling Ground and Boulders	12 00	4 00 AM	
	Connection	4 00	4 15	
	Drilling Pull out for bit Change	4 15	7 00	
		7 00	8 00	

DRILLER Dennis Connor

COMPANY TIME CONT'R TIME

TOUR 2

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Dr. 11	8 00	8 45	3/4
	Survey @ 60 ft	8 45		
	service pump		9 45	1
	Drill	9 45	10 45	1
	Rig Service survey	10 45		
	Pump Pump		11 15	1/2
	Drill holding Back on weight	11 15	12 30	1 1/4
	Rig Service stopped	12 30	1 30	1 1/4
	short crane	1 30	1 45	
	Drill	2 00	3 45	1 3/4
	Instal new generator	3 45	4 00	

DRILLER Ken Brennan

COMPANY TIME CONT'R TIME

TOUR 3

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	RIG SERVICE	4 00	4 15	1/4
	DRLG 9 7/8	4 15	5 15	1
	SURVEY @ 120 FT 1 1/4	5 15	5 45	1/2
	HOIST BREAK BIT	5 45		
	INSTALL BIT ON KELLY		6 45	1
	MIX MUD	6 45	7 45	1
	CHANGE SWEDGE ON	7 45		
	SWIVEL TO KELLY HOSE		8 00	1/4
	REAMING TO BOTTOM	8 00	11 45	3 3/4
	SURVEY MISS RUN	11 45	12 00	1/4

REAMING TO STRAIGHTEN HOLE.

DRILLER Wm Forsyth

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION CENTOLA RIO I-57 MILLS LAKE N.M.T. DATE JAN 28/67

TOUR 1 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	376								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. GRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

TOUR 2 — TO — 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1									

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	-12	8
W. TRUCK				WIND VELOCITY:	wind	
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conner						8
HELPER G. Kenney						8
HELPER E. Wynn						8
L. Garner						
TOTAL						

INJURIES AND REMARKS:

TOUR 3 — TO — 4 P.M.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		0	15							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		28.60	9 7/8	D.T	6896	ALL	65	15		3/4			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.	50			50
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50		15						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken BRENNAN						8
HELPER Ed PRATT						8
HELPER Charlie Hoskins						8
Glen Foley						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

TOUR 1 — REMARKS

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	RUN 35 SKS CEMENT	12 00	12 15	1/4
	HOIST & LAY DOWN PIPE	12 15	12 45	1/2
	BAIL OUT CELLAR	12 45		
	CLEAN UP FOR WELDER			
	TO CUT CSG & WELDING			
	CAP ON CSG.		3 00	2 1/4
	CLEAN OUT MUD TANK	3 00		
	PREPARE ING TO SKID.			
	THAWING OUT PLANK			
	ETC.		8 00	5
				8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — REMARKS

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Service	8 00	8 30	1/2
	Wait on Cat to fell			
	pull pole lines			
	Cowboys and Big Lines	4 30	12 00	3 1/2
	Rigging up	12 00	4 00	4

DRILLER Dennis Conner

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — REMARKS

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up To Spud	4 00	10 30	6 1/2
	Spud Drill	10 30	11 00	1/2
	W.O. Pump	11	11 45	3/4
	Drill 9 7/8 Hole	11 45	12 00	

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY Joe Millington

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION CAN DEL RIO I-57 NWT DATE JAN 27/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	320	376				56			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	6 1/4	OT	38726	4-6	165	109		2			

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. GELL 900#
2. SAWDUST 350S.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	∑ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED BRUMMOND						12
HELPER DARRELL STENBAR						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRLG 6 1/4 HOLE	12.00	12.15	1/4
	RIG SERVICE SURVEY	12.15	12.45	1/2
	CHANGE FAN BLADE	12.45		
	ON CUMMINS DIEZEL		1.00	1/4
	DRLG 6 1/4 HOLE	1.00	1.45	3/4
	LOOSING VOLUME	1.45		
	BUILD VOLUME. MIXGEL			
	& SAWDUST. BAIL OUT			
	CELLAR. CSG BACKED			
	OFF FROM BOWL.		4.00	2 1/4
	HOIST PIPE	4.00	5.00	1
	THAW OUT & TEAR	5.00		
	OUT B.O.P.S.		8.00	3
				8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	[redacted]	367								

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	∑ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	12	0
W. TRUCK				WIND VELOCITY:	nil	nil
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Conner						8
HELPER L. Bonnar						8
HELPER E. DeJard						8
R. Barnes						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Lay down B.O.P.s	8.00		
	Start mud truck		10.00	
	Service	10.00	10.30	
	Tighten pump and	10.30	12.00	
	thaw 2" drill pipe			
	Nipple up logging			
	and pull and test			
	for circulation	12.00	1.30	
	Wash down last stand	1.30	4.00	
	to bottom on instructions			

DRILLER Dennis Conner

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	∑ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER L. Bonnar						8
HELPER Charles Haskew						8
Glen Daley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Back off & lay down	4.00		
	tandem jt. Tow out			
	B.O.P. lines lay down			
	drill collars pick up			
	~~Rig to light~~ mi pump			
	~~Break circ. Tear down~~			
	~~pump & P pipe to~~		11.30	
	~~mast~~			
	~~Run Cmen~~ plug			
	Plug run By	11.30		
	B.J.		12.00	

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION MILLS LAKE I-57 N.W.T. DATE JAN 26/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		267								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DT	38726	NIL		0					IN

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED BRUMMOND						8
HELPER DARREL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT.	TO FT.	TIME	RATE IN 16PM	DESCRIPTION	DEPTH TO WATER IN FT.

PUMP TEST

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRAIN PUMP, TIGHTEN BELTS, PRIME PUMP	12.00		
	REPAIRING LEAKS			
	STRAITEN UP BOPS.			
	STOP LEAK IN GATE ON MUD TANK. PRESSURE ING UP BLIND RAMS		2.30	
Jam	Hold @ 1000# (Held good)	2.30	3.00	.5
	RUN IN hole	3.00	4.00	1.0
Jam	PRESSURE UP PIPE RAMS	4.00	4.30	
	1000# FOR 30 MINS. (Held good)			
Jam	Pressure hydril 1000#	4.30		
	held good		5.00	
	Drilling on plug OKQ	5.00		
	OUT CEMENT & INSERT		7.15	2¼
	WORKING ON MUD PUMP	7.15	8.00	¾
				8

DRILLER Adam Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		267								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DT	38726								

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.	46			
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	-6	0
W. TRUCK				WIND VELOCITY:	nil	nil
MOB. PUMP				RAIN, SNOW, FOG, ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER M. Bonny						8
HELPER E. Tizard						8
L. Donnen						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Work on mud pump and repack centrifugal	8.00		
	Drill ahead	8.30	9.00	
	Weld on swivel			
	replace valve on			
	section and weld	9.00		
	some rig stabilizer handle			
	Grease [illegible]			
	thaw side station [illegible]			
	Clean pit & rig repair			
	prep for & Gas Test			
	And weld on swivel		4.00	

DRILLER Dennis Comm

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		267	320				53			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1	6¼	DT	38726	6-M	165						

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				8.4
VISC.				28
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: 100 lbs Bicarb

1. Water

2. _____

3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
450	64	300						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	8			TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER Ed. PRETT						8
HELPER CHARLIE HOSKINS						8
Wm Foley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Change wash pipe while waiting on welder Hand on Kelly Gelt pump pump would not pump tear down pump Change Belt Check Leads Prime pump and it then works Well	4.00		¼
		11.00	11.00 12.00	1

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY Ted Mulligan

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION CAR MILLS LAKE I-57 NWT DATE JAN 25/67

TOUR 1 (MIDN. TO 8 A.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	267								

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.	NOT CIRC.			
GEL.				

W.L. F.C. P.H.
ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS, RPM, DEPTH — PUMP: PRESS, RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	4/0	4/0
WIND VELOCITY:	NIL	NIL
RAIN, SNOW, FOG, ETC.	—	—

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMOND						8
HELPER DARRELL STEWART						8
ARNOLD COCHRANE						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
	W.O.C.	12.00	5.00	5
	SLACK OFF REMOVE	5.00		
	LANDING JT, HARD TO			
	BREAK.		5.45	3/4
	CLEAN UP CSG COLLAR	5.45		
	& INSTALL BOWL		6.15	1/2
	NIPPLEING UP	6.15	8.00	1 3/4
				8

DRILLER Wm Forsyth.
COMPANY TIME CONT'R TIME

TOUR 2 (8 A.M. TO 4 P.M.)

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:			267							

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.
ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS, RPM, DEPTH — PUMP: PRESS, RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	-0	+5
WIND VELOCITY:	nil	nil
RAIN, SNOW, FOG, ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Cousin						8
HELPER G. Bonney						8
HELPER E. Wg Ford						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
	Nippling up B.O.Ps.	8.00		
	flare line etc.		4.00	

DRILLER Dennis Cousin
COMPANY TIME CONT'R TIME

TOUR 3 (4 P.M. TO MIDN.)

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD: % LEFT, COND, NO., SIZE, TYPE, SER. NO., WEIGHT, RPM, FT. DRILLED, REAMED, HRS., FORM, % LEFT, COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.
ADDITIVES: WATER GALS.
1.
2.
3.

PUMP: PRESS, RPM, DEPTH — PUMP: PRESS, RPM, DEPTH — SURVEY: AT, DEG., E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER ED PRETT						8
HELPER Charles Hoskins						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	START	STOP	INTERVAL
	Rig up Kill Line	4.00		
	Finish Nippleing up			
	Rig up Mud Tank			
	prime pump		12.00	

DRILLER Ken Brennan
COMPANY TIME CONT'R TIME

STRATIGRAPHIC LOG / PUMP TEST: FROM FT. / TIME, TO FT. / RATE IN 16PM, DESCRIPTION / DEPTH TO WATER IN FT.

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c [signature]
TOTAL COMPANY TIME HRS. APPROVED BY [signature]

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG NO. 17 LOCATION C.D.R: C.P.O.G. MILLS LAKE I-57 DATE JANUARY 24 / 1967

TOUR 1 — MIDN. to 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	205	252				47			

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			24	9 7/8	DT	66889	12	75	75		5 1/4			

MUD	12MN.	2A.M.	4 A.M.	8 A.M.
WT.	9.5			
VISC.	37		37	38
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
	65							

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG: ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM. FORSYTH.						8
HELPER ED BRUMMUND.						8
HELPER CHARLIE HOSKINS						8
DARRELL STEWART						8
TOTAL						

INJURIES AND REMARKS:

TOUR 2 — 8 A.M. to 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	252	267							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			24	9 7/8	D.T	66889	12		88		7 1/4			

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.		9.5		
VISC.	38	55		
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH
						267	3/4	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	-10	
W. TRUCK				WIND VELOCITY:	0	
MOB. PUMP				RAIN, SNOW, FOG: ETC.	CLEAR	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER DENNIS COMM						8
HELPER GEORGE BONNER						8
HELPER L. DeFORD.						8
L. GARNIER						8
TOTAL						

INJURIES AND REMARKS:

TOUR 3 — 4 P.M. to MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				
W.L. F.C. P.H.				
ADDITIVES: WATER GALS.				
1.				
2.				
3.				

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL	8			TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG: ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN ROENNAN						8
HELPER ED PRATT.						8
HELPER CHARLIE HOSKINS						8
GLEN FOLEY.						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

RAN 6 JTS. 155-20"-7"-STEC.
RGE 3 JAPANESE CASING.
TALLIED @ 252.61 & SET @ 261.51 K.B.
W/100 SACKS. PORTLAND CEMENT 2½%
CaCl₂ ADDED. REINFORCED GUIDE SHOE,
INSERT FLOAT. 2 CENTRALIZERS.
THREAD-LOC BOTTOM TWO JOINTS.
PLUG DOWN @ 5:30 P.M./100 SKS.
GOOD CEMENT RETURNS FLOAT HELD.
PUT STEAM HOSE DOWN IN CASING
BG LOW G.A.

K.B TO GROUND 9.6
K.B TO DRLG. FLANGE 8.10
FLOAT @ 249.89. K.B

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

DATE JANUARY 24 / 1967 LOCATION DATE

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRILL 9 7/8	12:00	12:30	1/2
	WORK TIGHT HOLE	12:30	12:45	1/4
	RIG SERV. SET UP CLUTCHES.	12:45	1:15	1/2
	DRILL	1:15	3:15	2
	TRIP & TALLY	3:15	4:30	1 1/4
	DRILL	4:30	5:00	1/2
	WORK ON PUMP (SAND & GRAVEL)	5:00	7:00	2.
	DRILLING ON BOULDER.	7:00	7:45	3/4
	WORK ON CENT. PUMP.	7:45	8:00	1/4
	DRILLER			

COMPANY TIME..... CONT'R TIME.....

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling	8 00	9 30	12
	Circulate and mix mud	9 30	11 00	2
	Service and slip drlg.	11 00	12 30	1
	Trip out and prepare to run Casing and take Survey.	12 30	1.45	1/4
	RUN CASING	1:45	3:15	1 1/2
	HEAD TO CIRCULATE	3:15	4:00	3/4
	CIRCULATE CASING	4:00	4:45	3/4
	MIX CEMENT. DISPLACE PLUG	4:45	5:15	1/2
	W.O.C.	5:15	12:00	6 3/4

DRILLER Dennis Comm

COMPANY TIME..... CONT'R TIME.....

DRILLER Ken Brennan

COMPANY TIME..... CONT'R TIME.....

TOTAL CONTRACT TIME..... HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME..... HRS. APPROVED BY Jack Murtagan

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG NO. 17 LOCATION C.O.R. MILLS LAKE I-57 N.W.T. DATE JAN/23/67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	55								

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8	DT	66896								

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.	28		28	34
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1. SALTGEL 1000#
2. CAUSTIC 250#
3. MAGOGEL 5200#

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. RAMMUND						8
HELPER RUSS MURRAY						8
DARRELL STEWART						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. /	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	RIG SERVICE	12.00	12.15	1/4
	MIX MUD.	12.15	1.00	3/4
	WAIT ON MUD	1.00	3.30	2 1/4
	COND MUD TO	3.30		
	RAISE VISC. JETTING			
	UP PIT		8.00	4 1/2
				8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	55	121							

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8	DT	66896	all	75						

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.	34	45	34	35
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	65	100				97	3/4 1/2°	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:	-38°	-32°
W. TRUCK				WIND VELOCITY:	0	0
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	Clear

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Connor						8
HELPER D. Bonner						8
HELPER E. Pratt						8
C. Hoskins						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Trip pipe	8.00	9.00	1
	Circulate and Condition	9.00	9.15	1/4
	Service and Start	9.15		
	Rig Motor		9.45	1/2
	Drilling	9.45	11.00	1 1/4
	Connection and repairs			
	Pump	11.00	11.15	1/4
	Drilling ahead	11.15	2.00	2 3/4
	Direction + survey	2.00	2.45	3/4
	Drilling Ahead	2.45	4.00	

DRILLER Dennis Connor

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	~~1~~	~~2~~ 121	205	84						

BIT RECORD	% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
			1A	9 7/8	DT.	66896	#11	85	177		8		1/1	
			2A	9 7/8	DT	66899	#11	60	28		1 1/2			

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	9.1	9.1	9.1	10
VISC.	35	35	35	7
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.
1.
2.
3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
100	65	121	100	65	205	130 127	-1/4 1/2	

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL ~~Night~~	8			TEMPERATURE:	-25	-10
~~W~~ TRUCK	8			WIND VELOCITY:	0	0
MOB. PUMP				RAIN, SNOW, FOG; ETC.	clear	clear

GENERAL:

-84 ft

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed Pratt						8
HELPER C. Hoskins						8
G. Foley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drill	4.00	4.15	1/4
	Survey	4.15	4.30	1/4
	Drill	4.30	5.30	1
	Service Rig	5.30	6.00	1/2
	Drill	6.00	9.00	3.00
	TRIP for Bit Survey	9.00	10.30	1 1/2
	Drill	10.30	12.00	1 1/2

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY Jack Murray

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION Mills Lake 1-57 DATE Jan 22 67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE Jan 22 67

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	0	15				15			

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1A	9 7/8	OT	66896	ALL	160	15		3/4			IN

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.	WATER.			
GEL				

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50	65							

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:	32	33.
WIND VELOCITY:	NIL	NIL
RAIN, SNOW, FOG; ETC.	CLEAR.	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUMMUND						8
HELPER RUSS MURRAY						8
D. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	REPAIRING CUMMINS DIESEL	12.00	5.15	5 1/4
	PREPARE TO SPUD	5.15	7.15	2
	SPUD → DRLG 9 7/8	7.15	8.00	3/4
				8

DRILLER Wm Forsyth

COMPANY TIME_____ CONT'R TIME_____

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1	15	50							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1	9 7/8	Tri Cone			65						

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.	water	water		
VISC.	—	water		
GEL	—			

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER _____ GALS.

1. Gel 35 sacks
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50	65							

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:	-30	-20
WIND VELOCITY:	0	0
RAIN, SNOW, FOG; ETC.	clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER E. De Ford						8
HELPER G. Bonner						8
L. Bonner						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Drilling 15-40	8 00	9 30	1 1/2
	Change swivel packing	9 30	10 30	1
	Mix mud	10 30	1 30	3
	Drill 40-50	1 30	1 45	1/4
	Repair oil leak in rig Motor	1 45	4 00	2 1/4
				8

DRILLER Dennis Comm

COMPANY TIME_____ CONT'R TIME_____

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:		50	55							

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.
		1A	9 7/8	D.T	66896		65						Ruined

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.	8.5	8.5	8.5	8.5
VISC.	29	29	29	29
GEL				

W.L.____ F.C.____ P.H.____

ADDITIVES: WATER Nil GALS.

1. Gel 150 lbs
2. Plaster 200 lbs
3. Salt water Gel 100 lbs

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH
50	65	55						

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL	8		
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:	-30	-30
WIND VELOCITY:	Nil	Nil
RAIN, SNOW, FOG; ETC.	clear	

GENERAL: TRY TO Mud up. Mixed oil well No. Vis

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed P. BATT						8
HELPER Ge Hoskins						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Servicing Rig	4 00	4 30	1/2
	Dr. 11 9 7/8 hole	4 30	4 45	1/4
	Mixing Mud	4 45	6 30	
	W.O.T on Mud	6 30	12 00	
				8

DRILLER Ken Brennan

COMPANY TIME_____ CONT'R TIME_____

TOTAL CONTRACT TIME_____ HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME_____ HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG NO. 17 LOCATION Milkhalle 1-57 DATE Jan 21/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION DATE Jan 21/67

TOUR 1 — TO — 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER						
HELPER						
HELPER						
HELPER						
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	DRILLER			
	COMPANY TIME _____ CONT'R TIME _____			

TOUR 2 — TO — 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER Ed BRUMMUND						8
HELPER RUSS. MURRAY						8
O. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up	8.00		
	START Boiler			
	[redacted] PREFABS			
	PUT UP.		4.00	8
	DRILLER Wm Forsyth.			
	COMPANY TIME _____ CONT'R TIME _____			

TOUR 3 — TO — MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____

2. _____

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Cowan						8
HELPER E. W. Ford						8
HELPER D. Bonner						8
E. Bonner						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up - set	4:00		
	up Pole jacks. Close			
	in Monkey Board			
	Change Kelly Bar			
	Prepare to Drill			
	motor apart on			
	Mack		12 MIDN	
	DRILLER Dennis Cowan			
	COMPANY TIME _____ CONT'R TIME _____			

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

RIG. NO. 17 LOCATION Mills Lake 1-57 DATE Jan 20/67

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 1 — TO — MIDN.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER Ed. PRATT						8
HELPER C. HOSKINS						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT. / TO FT.	TIME	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

PUMP TEST

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WAIT on Repairs			8

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.

LOCATION _____ DATE Jan 20/67

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 2 — TO — 8 A.M.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER WM FORSYTH						8
HELPER ED. BRANDMUND						8
HELPER RUSS. OUBRAY						8
D. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	WAIT ON REPAIRS. BUILD. HOUSE FOR CAMPLIGHT PLANT WARM UP & START SAME. JACK UP TRAILER W/ FUEL TANKS. / WINCH ON T.H.C. BROKEN.	8.00	4.00	8

DRILLER Nelson Forsyth.

COMPANY TIME _____ CONT'R TIME _____

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

TOUR 3 — TO — 4 P.M.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 P.M.
DRILL				TEMPERATURE:	+40	+40
W. TRUCK				WIND VELOCITY:	0	0
MOB. PUMP				RAIN, SNOW, FOG; ETC.	Clear	

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comeau						8
HELPER B. Bergsten						8
HELPER E. Lyford						8
L. Barnes						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Waiting on mechanic Warming motor on mack. Go to Prandence for Berman Nelson.	4PM	12AM	8

DRILLER Dennis Comeau

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION FORT PROVIDENCE DATE JAN 19/67

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION..... DATE.....

TOUR 1 — MIDN.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG: ETC.		

GENERAL:

TO — 8 A.M.

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER KEN BRENNAN						8
HELPER Ed. PRETT						8
HELPER C. HOSKINS						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	W.O. Repairs			8

DRILLER

COMPANY TIME CONT'R TIME

TOUR 2 — 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG: ETC.		

GENERAL:

TO — 4 P.M.

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER E.O. BRUMMUND						8
HELPER RUSS. MURRAY						8
D. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up. WAITING ON MECHANIC.			8

DRILLER Wm Forsyth.

COMPANY TIME CONT'R TIME

TOUR 3 — 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. F.C. P.H.

ADDITIVES: WATER GALS.

1.

2.

3.

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:	-	
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG: ETC.		

GENERAL:

TO — MIDN.

CREW TIME SUMMARY

	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER D. Comm						8
HELPER E. Deford						8
HELPER J. Bonner						8
L. Bonnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up. Waiting on mechanic and Down motor on Mack	8	4	8

DRILLER Dennis Comm

COMPANY TIME CONT'R TIME

TOTAL CONTRACT TIME HRS. TOOLPUSHER OR DRILLER i/c

TOTAL COMPANY TIME HRS. APPROVED BY

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION FORT PROVIDENCE. DATE JAN 18/67.

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

LOCATION ..... DATE .....

TOUR 1 — MIDN. TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12MN.	2A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. ..... F.C. ..... P.H. .....

ADDITIVES: WATER ..... GALS.

1. .....
2. .....
3. .....

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	MIDN.	4 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed. PRATT						8
HELPER C. Haskins						8
Glen Foley						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT. / TIME	TO FT. / RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	W.O. Repairs			8

DRILLER Ken Brennan

COMPANY TIME ..... CONT'R TIME .....

TOUR 2 — 8 A.M. TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. ..... F.C. ..... P.H. .....

ADDITIVES: WATER ..... GALS.

1. .....
2. .....
3. .....

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER	8 A.M.	NOON
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH.						8
HELPER ED. BRAUNAUD.						8
HELPER RUSS. MURRAY						8
R. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up, waiting on Repairs	8:00	4:00	8

DRILLER Wm Forsyth

COMPANY TIME ..... CONT'R TIME .....

TOUR 3 — 4 P.M. TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. ..... F.C. ..... P.H. .....

ADDITIVES: WATER ..... GALS.

1. .....
2. .....
3. .....

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	E LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT	WEATHER:	4 P.M.	8 A.M.
DRILL				TEMPERATURE:		
W. TRUCK				WIND VELOCITY:		
MOB. PUMP				RAIN, SNOW, FOG, ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER D. Comeau						8
HELPER E. De Ford						8
HELPER G. Bonney						8
L. Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging Up Waiting on Repairs	8:00	4:00	8

DRILLER Dennis Comeau

COMPANY TIME ..... CONT'R TIME .....

TOTAL CONTRACT TIME ..... HRS. TOOLPUSHER OR DRILLER i/c .....

TOTAL COMPANY TIME ..... HRS. APPROVED BY .....

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION FORT PROVIDENCE DATE JAN 17/67

TOUR 1 — TO — MIDN. / 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	12 MN.	2 A.M.	4 A.M.	6 A.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed PRATT						8
HELPER C. Hoskins						8
C. Foley						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG FROM FT. / TIME	TO FT.	RATE IN 16PM	DESCRIPTION	PUMP TEST DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up.			8

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — TO — 8 A.M. / 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10 A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER Ed. BRUNNUND.						8
HELPER RUSS. MURRAY						8
A. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up.	8:00	4:00	8

DRILLER Wm Forsyth

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — TO — 4 P.M. / MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D. IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	SURVEY ℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER C. De Jord						8
HELPER G. Bonner						8
Leroy Garnier						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL

DRILLER Dennis Comm

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

BIG INDIAN DRILLING CO. LTD. PROJECT NO.....

RIG. NO. 17 LOCATION FORT PROVIDENCE DATE JAN 16/67

TOUR 1 — TO 8 A.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	MIDN.	12MN.	2A.M.	4 A.M.	6 A.M.
WT.					
VISC.					
GEL.					

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	MIDN.	4 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Ken Brennan						8
HELPER Ed. PRATT						8
HELPER C. Hoskins						8
C. Foley						8
TOTAL						

INJURIES AND REMARKS:

STRATIGRAPHIC LOG / PUMP TEST

FROM FT./TIME	TO FT./	RATE IN 16PM	DESCRIPTION / DEPTH TO WATER IN FT.

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up.	8 00	4 00	8

DRILLER Ken Brennan

COMPANY TIME _____ CONT'R TIME _____

TOUR 2 — TO 4 P.M.

LT:	LF:	HOLE NO.	FROM	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:	1									

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	8 A.M.	10A.M.	12 N'n.	2 P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER	8 A.M.	NOON
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Wm FORSYTH						8
HELPER ED. BRUNSWICK						8
HELPER RUSS. MURRAY						8
D. STEWART						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging up	8.00	4.00	8

DRILLER Wm Forsyth.

COMPANY TIME _____ CONT'R TIME _____

TOUR 3 — TO MIDN.

LT:	LF:	HOLE NO.	FROM.	TO	T.D.IF FIN.	SIZE CASING	SET TO DEPTH	AMOUNT	SAC CEMENT	AVERAGE TIME PER LOAD OF W.	LOST DRILL TIME WAIT ON WATER
AF:	AT:										

BIT RECORD

% LEFT	COND	NO.	SIZE	TYPE	SER. NO.	WEIGHT	RPM	FT. DRILLED	REAMED	HRS.	FORM	% LEFT	COND.

MUD	4 P.M.	6 P.M.	8 P.M.	10P.M.
WT.				
VISC.				
GEL.				

W.L. _____ F.C. _____ P.H. _____

ADDITIVES: WATER _____ GALS.

1. _____
2. _____
3. _____

PUMP PRESS	PUMP RPM	PUMP DEPTH	PUMP PRESS	PUMP RPM	PUMP DEPTH	SURVEY AT	SURVEY DEG.	℄ LOG TO DEPTH

	MOTOR HOURS	FUEL GALS.	NEXT OIL CHANGE AT
DRILL			
W. TRUCK			
MOB. PUMP			

WEATHER:	4 P.M.	8 A.M.
TEMPERATURE:		
WIND VELOCITY:		
RAIN, SNOW, FOG; ETC.		

GENERAL:

CREW TIME SUMMARY	DRILLING AND OTHER RIG OPER.	PUMPTEST	REPAIRS & MAINTENANCE	RIG UP OR TEAR DOWN	LOST TIME TRAVEL TIME	TOTAL HOURS
DRILLER Dennis Comm						8
HELPER Eugene Lloyd						8
HELPER George Bonnar						8
Larry Garner						8
TOTAL						

INJURIES AND REMARKS:

CLASS	REMARKS	TIME START	TIME STOP	TIME INTERVAL
	Rigging Up	8	4	

DRILLER Dennis Comm

COMPANY TIME _____ CONT'R TIME _____

TOTAL CONTRACT TIME _____ HRS. TOOLPUSHER OR DRILLER i/c _____

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____