

Formerly F-7

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 11

SERVICE RIG REPORT

Well Imp. San. Nalla D-7
Contractor B & K
Date March 28

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By

Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke

Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

12:00 5:00 Move rig Fort Nelson
2:30 - 12:00 mid night Moving rig Fort Nelson
Nelson too Fort St. Johns

REMARKS:

Driller Tool Pusher M. Sedman

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 10

SERVICE RIG REPORT

Well Imp Sun Miller D-7
Contractor B + K
Date March 27/61

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

MATERIAL HAULED TO LEASE

Oil..... bbls. Water..... bbls.
Mud..... sacs. Sawdust..... sacs.
Other

MATERIALS USED

Mud..... sacs. Sawdust..... sacs.

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
..... Plain Rods
..... Plain Rods
..... Scraper Rods
..... Scraper Poneys
..... Scraper Poneys
Polish Rod Down @ Top of Stroke

Pump Set at
Kind of Pump
Kind of Shoe

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

PERFORATING: By

Bottom Top Liner

Type & Size Shots

Interval Shot to

Shots per foot

Interval Shot to

Shots per foot

Acid Dumped gals.

ACIDIZING: By DOWELL

Retainer - Selective - Open End

Kind of Acid 15% HCLWash..... bbls. Squeeze 50 bbls.Zone Treated 6399 to 6437Initial Rate: 50 gpm @ 1100 psig.Final Rate: 16.8 gpm @ 0 psig.

Average Rate: gpm @ psig.

Fluid in Hole DUSELAcid Chased With 2000 gals. of DUSELFUEL

CEMENTING: By

Type Job

Cement Used sacs.

Cement to Formation sacs.

Cement Washed Back sacs.

Initial Rate bbls. @ psig.

Final Rate bbls. @ psig.

Zone Cemented to

Estimated Cement Top

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

Driller

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

12:00 - 1:00 Test flow well
1:00 - 5:00 Dig and clean out collars and
dig steps
5:00 - 8:00 Rig up for acid and acidize
well
8:00 - 12:00 Rig out and load out to mor
12:00 - 12:00 Move to Fort Nelson

REMARKS: RIG RELEASED 12:00 NOONDriller Tool Pusher M. J. Sadoway

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 97

SERVICE RIG REPORT

Well Imp Sun Nalla D-7
Contractor B+K
Date March 26

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke

Pump Set at
Kind of Pump
Kind of Shoe

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

PERFORATING: By SCHLUMBERGER

Bottom Top Liner
Type & Size Shots 1 1/2 CAPSULE
Interval Shot 6399 to 6437
Shots per foot 2
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

Driller

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

12:00 - 1:00 Hong tubing on WIO
1:00 - 7:00 Dig out cellar under spoil
7:00 - 10:00 Take off B.O.P. tubing spoil
and reach
10:00 - 11:00 Cut off casing
11:00 - 2:00 Clean off flanges and packing
and install well head and B.O.P.
2:00 - 4:00 Change foot on rig and
grazed cellar dug under footing
4:00 - 5:00 Pull up take off WIO Hook up to rig
5:00 - 6:00 Drapery taking too Diesel
6:00 - 7:00 Load tubing take off B.O.P. instal well
7:00 - 8:00 Pressure test well head
8:00 - 11:00 Perforate
11:00 - 12:00 Tub flowing well

REMARKS:

Driller Tool Pusher M. J. Sadomas

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 8

SERVICE RIG REPORT

Well Imp. San Netha D-7
Contractor B & K
Date March 25

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By Schlumberger

Bottom Top Liner
Type & Size Shots 1 1/16 CHAPSULE
Interval Shot 6399 to 6437
Shots per foot 2
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke
Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

12:00 - 12:30 Finish Pulling tubing down
12:30 - 6:30 Rig up schlumberger run
with sludge run non bridge plug
and dump 1 Bailer off cement
6:30 - 11:00 Run Second Bridge Plug
and dump 1 Bailer off cement
11:00 - 12:30 Hook up and pressure casing
to 3500 for 1 hr with Dapnell
12:30 - 2:00 Run Model D Packer
2:00 - 3:00 Rig out schlumberger machinery
3:00 - 9:00 Run and Double Measure
9:00 - 10:00 taking
10:00 - 11:00 Hook up and start to Deep
11:00 - 12:00 Pull up tubing and land
on 410 Packer

REMARKS:

Driller Tool Pusher M. J. Goodenoway

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. No 7

SERVICE RIG REPORT

Well Imp. Sun. Nalla D-7
Contractor B & K
Date March 24

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By

Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke
Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

8:00 - 4:00 Level base and fill cellar
with cat base very soft
by well head
4:00 - 6:00 Rig up rig for pull tubing
6:00 - 12:00 Pull tubing

REMARKS:

Driller Tool Pusher N. J. Sadomay

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. No 6

SERVICE RIG REPORT

Well Imp San Delta D-7
Contractor B-H
Date March 23

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By

Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke
Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

8:00 Rig Stand By with 5
man crew for drilling
rig to move off well
& on drill rig
9:00 Take out material from
12:00 Big rig

REMARKS:

Driller Tool Pusher Nf Sadomay

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 5

SERVICE RIG REPORT

Well Imp Sun Milla D7
Contractor B & B
Date March 22

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE
Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED
Mud sacs. Sawdust sacs.

PERFORATING: By
Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By
Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of.

CEMENTING: By
Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING
(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke
Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

Stand By with 5 man crew for drilling rig to move off

REMARKS:
Driller Tool Pusher N. J. Sadouay

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 19

SERVICE RIG REPORT

Well Imp. Sugar Mtn. D-7
Contractor March 21
DateCasing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

PERFORATING: By

Bottom Top Liner

Type & Size Shots

Interval Shot to

Shots per foot

Interval Shot to

Shots per foot

Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End

Kind of Acid

Wash bbls. Squeeze bbls.

Zone Treated to

Initial Rate: gpm @ psig.

Final Rate: gpm @ psig.

Average Rate: gpm @ psig.

Fluid in Hole

Acid Chased With gals of.

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

CEMENTING: By

Type Job

Cement Used sacs.

Cement to Formation sacs.

Cement Washed Back sacs.

Initial Rate bbls. @ psig.

Final Rate bbls. @ psig.

Zone Cemented to

Estimated Cement Top

Landed at

Driller

Driller

Time From To WORK PERFORMED Hours Company Contractor

Rig Stand By with
chem 5 men
for Drilling rig to move off

REMARKS:

Driller Tool Pusher W. S. Larson

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 3

SERVICE RIG REPORT

Well Imp. San Neft
Contractor _____
Date March 20

Casing Pressure _____
Tubing Pressure _____
Fluid Level _____
Fluid in Hole _____

MATERIAL HAULED TO LEASE
Oil _____ bbls. Water _____ bbls.
Mud _____ sacs. Sawdust _____ sacs.
Other _____

MATERIALS USED
Mud _____ sacs. Sawdust _____ sacs.

TUBING STRING
(Other than Prod.)
(1) _____
(2) _____
(3) _____
(4) _____
(5) _____
(6) _____
(7) _____
(8) _____

PUMP DATA
Pump _____
Poneys _____
Poneys _____
Plain Rods _____
Plain Rods _____
Scraper Rods _____
Scraper Poneys _____
Scraper Poneys _____
Polish Rod Down @ Top of Stroke _____

SWABBING REPORT

Initial Fluid Level _____
Final Fluid Level _____
Total No. of Swabs _____
Total Fluid Swabbed _____ bbls.
Swab Recovery _____
Time _____ Fluid _____

PERFORATING: By _____
Bottom _____ Top Liner _____
Type & Size Shots _____
Interval Shot _____ to _____
Shots per foot _____
Interval Shot _____ to _____
Shots per foot _____
Acid Dumped _____ gals.

Pump Set at _____
Kind of Pump _____
Kind of Shoe _____

REMARKS on Swabbing

PRODUCTION STRING

(1) _____
(2) _____
(3) _____
(4) _____
(5) _____
(6) _____
(7) _____
(8) _____
(9) _____

ACIDIZING: By _____
Retainer - Selective - Open End _____
Kind of Acid _____
Wash _____ bbls. Squeeze _____ bbls.
Zone Treated _____ to _____
Initial Rate: _____ gpm @ _____ psig.
Final Rate: _____ gpm @ _____ psig.
Average Rate: _____ gpm @ _____ psig.
Fluid in Hole _____
Acid Chased With _____ gals of.

CEMENTING: By _____
Type Job _____
Cement Used _____ sacs.
Cement to Formation _____ sacs.
Cement Washed Back _____ sacs.
Initial Rate _____ bbls. @ _____ psig.
Final Rate _____ bbls. @ _____ psig.
Zone Cemented _____ to _____
Estimated Cement Top _____

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor
8		Stand by and get rig ready for work that all Bedrock unloading trucks		
4				

REMARKS: _____

Landed at _____

Driller _____

Driller _____

Driller _____ Tool Pusher N. Sadounay

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 2

SERVICE RIG REPORT

Well Imp. Sun Nitta D-7
Contractor BTH
Date March 19

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By

Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of.

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke

Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

8 AM 12 PM None rig Fort Nelson
too base

REMARKS:

Driller Tool Pusher W. S. Sweeney

IMPERIAL OIL LIMITED

PRODUCING DEPARTMENT

REPORT No. 1

SERVICE RIG REPORT

Well IMP SUN, NETLA D-7
Contractor Baldwin & Knoll
Date March 18

Casing Pressure
Tubing Pressure
Fluid Level
Fluid in Hole

SWABBING REPORT

Initial Fluid Level
Final Fluid Level
Total No. of Swabs
Total Fluid Swabbed bbls.
Swab Recovery
Time Fluid

REMARKS on Swabbing

PRODUCTION STRING

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)
(9)

Landed at

Driller

MATERIAL HAULED TO LEASE

Oil bbls. Water bbls.
Mud sacs. Sawdust sacs.
Other

MATERIALS USED

Mud sacs. Sawdust sacs.

PERFORATING: By

Bottom Top Liner
Type & Size Shots
Interval Shot to
Shots per foot
Interval Shot to
Shots per foot
Acid Dumped gals.

ACIDIZING: By

Retainer - Selective - Open End
Kind of Acid
Wash bbls. Squeeze bbls.
Zone Treated to
Initial Rate: gpm @ psig.
Final Rate: gpm @ psig.
Average Rate: gpm @ psig.
Fluid in Hole
Acid Chased With gals of

CEMENTING: By

Type Job
Cement Used sacs.
Cement to Formation sacs.
Cement Washed Back sacs.
Initial Rate bbls. @ psig.
Final Rate bbls. @ psig.
Zone Cemented to
Estimated Cement Top

TUBING STRING

(Other than Prod.)

(1)
(2)
(3)
(4)
(5)
(6)
(7)
(8)

PUMP DATA

Pump
Poneys
Poneys
Plain Rods
Plain Rods
Scraper Rods
Scraper Poneys
Scraper Poneys
Polish Rod Down @ Top of Stroke

Pump Set at
Kind of Pump
Kind of Shoe

Time		WORK PERFORMED	Hours	
From	To		Company	Contractor

12 - 2:00 Taket off Derrick
2:00 - 4:00 Moved rig Fort Nelson
See Fort Nelson

REMARKS:

Driller J. Benson Tool Pusher M. S. S. S.

Month March Day 22 1961



Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [Signature] Approved by _____

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ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 10-10-2001 BY 60322 UCBAW

SWABING



Tim Keady

Imp SUN NetLA LSD D7 SEC. TWN. RGE. W. Contractor I.O.I. Co. Tools Type Rig NAT 80B Month MARCH Day 21 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																									
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation																																					
	7771																																																					
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																				
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																				
	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING																																				
	DATA					DRILL COLLARS	DATA					DRILL COLLARS	DATA					DRILL COLLARS																																				
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																					
								Drilled	Reamed								Drilled	Reamed																																				
	Bit Serial No.						Table R.P.M.						Bit Serial No.						Table R.P.M.																																			
	Jet or Conventional -						Nozzle Size						Jet or Conventional -						Nozzle Size																																			
SURVEYS	Kind	at				Ft.	Deg. off				Kind	at				Ft.	Deg. off				Kind	at				Ft.	Deg. off																											
	HOURS		Pump Press		Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press		Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press		Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press		Length of Pump Stroke	Strokes Per Min.	Liner Size																										
	On Line	Circulating						On Line	Circulating						On Line	Circulating						On Line	Circulating																															
	No. 1	No. 2																																																				
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS													Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS													Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS												
	PERFORATED 7200 - 7230 WITH 1 1/4" CAPSULE GUN WITH 2 SHOTS/FT																																																					
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																				
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.							From	To	Hrs.							From	To	Hrs.																											
	Installed handle on 6" Schaeffer. Test to close						12:00			RUN IN WITH SCHLUMBERGER 8									SWABBING						4:00	12:00	8 HRS																											
	Running in hole with Baker 410 retrievable cementor packer						1:30	3:45	2 1/4	PERFORATING TOOLS - PERFORATED - 7200 TO 7230 PULLED OUT						11	3																																					
	Set packer. And nipping up to swab.							6:00	2 1/4	SWABED TO 5200' PULLED PACKER LOOSE						11	2:30	3 1/2																																				
	Swab to 3000'						6:00	6:45	3/4	SET PACKER 6' LOWER																																												
	Rig to shoot hole						6:45	8:00	1 1/4	RIGGING UP TO SWAB							4 1/2	8 HRS																																				
	Driller <u>Jim Kerby</u>						Driller <u>R.A. Bishop</u>						Driller <u>Rechebald</u>																																									

CLASSES OF TIME BREAKDOWN

 HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

 Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher R.A. Bishop Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT # 60

Inp Sun Net 14 LSD. D7 SEC. TWN. RGE. W. Contractor I.O.L. Co. Tools. Type Rig NAT 80 B Month MARCH. Day 20 19 61

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																												
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																																				
		7771																																7771																																								
		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.												Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.												Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																	
DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL												DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL												DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																	
		COLLAR						DRILLING STRING										COLLAR						DRILLING STRING										COLLAR						DRILLING STRING																																		
		DATA																DATA																DATA																																								
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																							
		Bit Serial No.										Table R.P.M.												Bit Serial No.										Table R.P.M.												Bit Serial No.										Table R.P.M.																		
		Jet or Conventional -										Nozzle Size												Jet or Conventional -										Nozzle Size												Jet or Conventional -										Nozzle Size																		
SURVEYS		Kind at Ft. Deg. off										Kind at Ft. Deg. off												Kind at Ft. Deg. off										Kind at Ft. Deg. off																																								
SLUSH PUMP RECORD No. 1 No. 2		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																															
		On Line	Circulating																	On Line	Circulating																	On Line	Circulating																																			
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS												Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS												Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																	
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																															
DETAIL OF OPERATIONS AND REMARKS												From	To	Hrs.																							From	To	Hrs.																							From	To	Hrs.										
		RUNNING 2 1/2 Tubing.										12:05	2:00	2													PULLED TUBING OUT OF HOLE										8	9:45	1 3/4													PULLING TUBING										4	7	3										
		Displace mud. To water										2:00	4:00	5'													SERVICE RIG										9:45	10	1/4																																			
		Pulling out tubing, layed down 7 segs.										7:00															RUN IN HOLE WITH BAKER										10	12:15	2 1/4													LOGGING										7	10:30	3 1/2										
													8:00	1													440 RETREIVABLE CEMENTER																									INSTALLING 6" SCHAEFFER.										10:30	12	1 1/4										
																									PACKER ON TUBING																																																	
																									RUN SCHLUMBERGER COLLAR										12:15																																							
																									LOCATOR LOG																																																	
		Driller Jim Kerby										Driller P. A. Bishop										Driller C. E. Hall																																																				

CLASSES OF TIME BREAKDOWN

 HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE

Total Contract Time .hrs.

Total Company Time .hrs.

Toolpusher

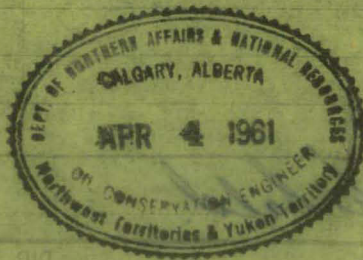
Approved by

Imp SUN NoTHA LSD. D7 SEC. TWN. RGE. W. Contractor I.O.L. Co. Took Type Rig NAT 80B Month March Day 19 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH	From		To		Hole Made	Hole Size	Formation		From		To		Hole Made	Hole Size	Formation		From		To		Hole Made	Hole Size	Formation																									
	7771																																															
DRILLING STRING	Size-D.P.		Stands		Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.																			
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																										
	COLLAR					DRILLING STRING		DRILL COLLARS		COLLAR						DRILLING STRING		DRILL COLLARS		COLLAR						DRILLING STRING		DRILL COLLARS																				
	DATA								DATA										DATA																													
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																						
									Drilled	Reamed									Drilled	Reamed									Drilled	Reamed																		
	Bit Serial No.						Table R.P.M.						Bit Serial No.						Table R.P.M.																													
	Jet or Conventional -						Nozzle Size						Jet or Conventional -						Nozzle Size																													
SURVEYS	Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off																									
	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																								
	On Line	Circulating							On Line	Circulating							On Line	Circulating																														
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS											Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS											Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																														
DETAIL OF OPERATIONS AND REMARKS						From	To	Hrs.						From	To	Hrs.						From	To	Hrs.																								
	LANDING CASING & W.C.P.					12 ⁰⁰	8 ⁰⁰	8 HRS	NIPPLING UP					8	9 ³⁰	1 1/2	NIPPLING UP TO					4	6	2.																								
	& NIPPLING UP.								WAITING ON ORDERS					9 ³⁰	4	6 1/2	DISPLACE W/WATER																															
																	RUNNING 2 7/8 TUBING					6	17.	6 1/2																								
Driller <u>Jim Kerby</u>								Driller <u>L.A. Bishop</u>								Driller <u>Orchard</u>																																

CLASSES OF TIME BREAKDOWN								DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:			
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher [Signature] Approved by



1 mi. S. N. 1/4 Sec. 17, T. 1N, R. 1E, W. 1/4 Contractor _____ Type Rig NAT. 80-B Month 3 Day 18 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																							
DEPTH	From		To	Hole Made	Hole Size	Formation	From		To	Hole Made	Hole Size	Formation	From		To	Hole Made	Hole Size	Formation																		
	7771																																			
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																		
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																		
	COLLAR					DRILLING STRING	DRILL COLLARS	COLLAR					DRILLING STRING	DRILL COLLARS	COLLAR					DRILLING STRING	DRILL COLLARS															
	DATA								DATA								DATA																			
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE										
									Drilled	Reamed									Drilled	Reamed									Drilled	Reamed						
	Bit Serial No.						Table R.P.M.						Bit Serial No.						Table R.P.M.						Bit Serial No.						Table R.P.M.					
	Jet or Conventional -						Nozzle Size						Jet or Conventional -						Nozzle Size						Jet or Conventional -						Nozzle Size					
SURVEYS	Kind	at				Ft.	Deg. off				Kind	at				Ft.	Deg. off				Kind	at				Ft.	Deg. off									
	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								
SLUSH PUMP RECORD No. 1 No. 2	On Line	Circulating								On Line	Circulating									On Line	Circulating															
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS												
							added 70 sacks gul & 13 sacks viskal to cement										RAN 225 Jts of 5 1/2 J55-R-2 New CASING. = 179 Jts of 17 1/2 lbs 46 Jts of 15 1/2 lbs Total pipe 7437-07 Cemented by Dowell with 700 SACKS 12% Gel 1/2 lbs per 100 lbs of Vis Kal										25 sacks spacing used as floor.									
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																		
							P200 down at 5:25 Pipe Landed at 7437-07 KB 7436' are																													
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.							From	To	Hrs.							From	To	Hrs.									
	LAYING DOWN Drill pipe 12:00 4:00 4 HRS + 3 7" D.C.												RUN 225 JOINTS OF 5 1/2" 8 CASING 2:30 6 1/2 CIRCULATE CASING 2:30 4 1 1/2 8 HRS												CEMENTING 5 1/2 CASING 4 5:30 1 1/2											
	change to 5 1/2 Rans + 5 1/2 slips. Prepare to run casing measuring camp																								spacing out section haisting up B.O.P. to set slips in landing bowl											
	Running casing & welding first 3 ft						7:00 3 8:00 1 8 HRS																		5:30 12 6 1/2											
Driller Jim Korby						Driller L.A. Bishop						Driller Archibald																								

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.		YES	NO

Total Contract Time hrs. Total Company Time hrs. Toolpusher *[Signature]* Approved by

LSD. 17 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80B Month 3 Day 17 19 61

**DETAIL
OF
OPER-
ATIONS
AND
REMARKS**

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.		YES	NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Bennett Approved by _____

Inp. Sams Miller LSD. D.7 SEC. TWN. RGE. W. Contractor I.O.L. Co. Tools Type Rig NAT 80 B Month March Day 16 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.																2nd Tour From: 8:00 a.m. To: 4:00 p.m.																3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																													
7771																7771																7771																																			
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																								
5" 80 1 10											5"																																																								
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																													
COLLAR												COLLAR												COLLAR																																											
DATA												DATA												DATA																																											
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																								
Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.										Bit Serial No.		Table R.P.M.																																									
Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size										Jet or Conventional -		Nozzle Size																																									
SURVEYS		Kind	at	Ft.	Deg. off										Kind		at	Ft.	Deg. off										Kind		at	Ft.	Deg. off																																		
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																				
No. 1		On Line	Circulating					On Line		Circulating					On Line		Circulating				On Line		Circulating					On Line		Circulating																																					
No. 2								8							18"						7 1/4"						14"																																								
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																												
		D.S. # 12. JOHNSTON TESTER.																																																																	
		Single straddle 7 1/4 packers. Jans.																																																																	
		Interval 7185 - 7260																																																																	
		Unable to get packer seat.																																																																	
		Rec 7 stds mud - 630'																																																																	
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																				
DETAIL OF OPERATIONS AND REMARKS		Pulling out of hole.										12 ⁰⁰		1 ⁰⁰		1		MAKING UP PACKER										8		8 ¹⁵		1/4		LAYING DOWN										4																							
		Pulled tight @ 4621 manual and closed										1 ⁰⁰						RUN IN HOLE TO TEST 7185-7260										8 ¹⁵		11		2 3/4		PACKER & LOADING IN TRUCK.										5 ³⁰		1 1/2																					
		Pulled 1 more stand tight @ 4531 manual same. Still tight										2 ⁰⁰						SET PACKER - NO SEAT										11		11 ¹⁵		1/4		RUNNING IN D.C.																																	
		Circ. To clean hole.										3 ³⁰		4 ⁰⁰		1/2		PULLED PACKER LOOSE										11 ¹⁵		11 ³⁰		1/4		& LAYING DOWN SAME										9 ³⁰		4																					
		Pulling out of hole check BOP										4 ⁰⁰		6 ⁰⁰		2		PULLED PACKER OUT OF HOLE										11 ³⁰		3		3 1/2		RUNNING IN HOLE																																	
		Pickup up & making up Packer										6 ⁰⁰		8 ⁰⁰		2		BROKE & LAYED DOWN										3						w/ OPEN END PIPE										9 ³⁰		12		2 1/2																			
																		TESTING TOOLS										4		1		8 HRS																																			
Driller		Jim Kerby																Driller										P.A. Bailey																Driller										C. Schell													

CLASSES OF TIME BREAKDOWN

 HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by

Imp SUN Nether LSD D7 SEC. TWN. RGE. W. Contractor Imp Oil Co Tools Type Rig NAT 80 B Month March Day 15 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																																																							
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																																																															
		7771			9"													7771			9"													7771			9"																																																																
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																																																								
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																																																								
		COLLAR					DRILLING STRING				DRILL COLLARS		COLLAR					DRILLING STRING				DRILL COLLARS		COLLAR					DRILLING STRING				DRILL COLLARS																																																																				
		DATA											DATA											DATA																																																																													
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																																																						
									Drilled	Reamed										Drilled	Reamed										Drilled	Reamed																																																																					
		Bit Serial No.										Table R.P.M.										Bit Serial No.										Table R.P.M.																																																																					
		Jet or Conventional -										Nozzle Size										Jet or Conventional -										Nozzle Size																																																																					
SURVEYS		Kind	at				Ft.				Deg. off				Kind	at				Ft.				Deg. off				Kind	at				Ft.				Deg. off																																																																
SLUSH PUMP RECORD		HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																																																				
		On Line	Circulating											On Line	Circulating											On Line	Circulating																																																																										
		No. 1												No. 1												No. 1																																																																											
		No. 2												No. 2												No. 2																																																																											
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																																																				
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																																																				
DETAIL OF OPERATIONS AND REMARKS												From										To										Hrs.																				From										To										Hrs.																													
		Pulling out of hole										1200										100										1																				PULLED PACKER OUT OF HOLE										8										9										1																			
		Cut off 52' of Drilling Line										100										145										1/4																				CHECKED TOOL-LAYED DOWN ONE RUBBER										9										10										1																			
		Picking up making up packer.										145										445										2																				RUN IN HOLE TO 4520' BRIDGED										10										11:30										1 1/2																			
		Running in hole										445										630										1 3/4																				PULLED PACKER OUT OF HOLE										11:30										1:45										2 1/4																			
		Hit bridge. Trying to get										630																																								BROKE LAYED DOWN PACKER										1:45										3:15										1 1/2																			
		Through same @ 4521.																				700										1 1/2																				RUNNING IN HOLE TO										3:15																																							
		Pulling out of hole change										700																																								DRILL OUT BRIDGE																																																	
		Tong out.																				800																														CIRCULATE HOLE CLEAN										4										3/4										8 HRS																			
		Driller: Jim Kerby																																																																																																			
		Driller: L.A. Bishop																																																																																																			
		Driller: C. Bishop																																																																																																			

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by

Imperial Oil Ltd. LSD. D7 SEC. TWN. RGE. W. Contractor Imperial Oil Ltd. Type Rig Cat 80-B Month 3 Day 14 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation															
7771					9"					7771					9"					7771					9"																
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.														
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL															
COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS			
DATA										DATA												DATA																			
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE										
Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.															
Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size															
SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off				SURVEYS		Kind	at	Ft.	Deg. off																		
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																		
On Line		Circulating						On Line		Circulating						On Line		Circulating																							
No. 1		3/4	7 1/4	1100	18"	70	6 3/4	No. 1		1	6 1/2	1100	18"	70	6 1/4	No. 1				1000	18"	66	7 1/4"																		
No. 2								No. 2								No. 2																									
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS												

1000 ... 14 ...

LSD: D7

SEC.

TWN.

RGE.

W.

Contractor: Imp Oil

Type Rig: Nat. 80 B

Month: 3

Day: 13

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																											
		7771			9"																9"																																												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																		
		5"	79	1	11	18 Dci							5		79	1	11	18 D.C.S.																																															
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																											
COLLAR		8	7	2 3/8		DRILLING STRING										COLLAR		8	7	2 3/8		DRILLING STRING										COLLAR						DRILLING STRING																											
DATA		10	6 1/2	"												DATA		10	6 1/2	"												DATA																																	
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																
		RR	YH										RR		YH																																																		
		Bit Serial No. 891872										Table R.P.M.												Bit Serial No. 091872										Table R.P.M.												Bit Serial No.										Table R.P.M.									
		Jet or Conventional - Conv.										Nozzle Size												Jet or Conventional - CONV										Nozzle Size												Jet or Conventional -										Nozzle Size									
SURVEYS		Kind	at		Ft.		Deg. off				Kind		at		Ft.		Deg. off				Kind		at		Ft.		Deg. off																																						
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																										
		On Line	Circulating							On Line		Circulating						On Line		Circulating																																													
		6:34	1 1/4	1000	18"	70	7 1/4			6:34		1 1/4	1000	18"	70			6:34		1 1/4	1000	18"	70																																										
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																						
		12:30	223	10.2			Water				DST. #9						RAN JOHNSON DUAL RUBBER																																																
		2:00	199	10.5			1000 th Hydrogel				STRADDLE						PACKER TO TEST INTERVAL																																																
		3:00	213	10.4	6.		100 th Viskal				6394-6382						151 25 min																																																
		4:00	225	10.5			100 th Lime, 100 th caustic				V.D. 50						F 51 60 min																																																
		5:00	227	10.5			shoveled ditch				GASS TO SURFACE 5 min																																																						
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.			From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																								
										Rec.																																																							
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.					From		To	Hrs.					PICKED UP 14 SINGLES & RUN		From	To	Hrs.																																										
		Circulating @ Bottom		12							Circ @ 7771 by orders.		8:00	9:30	1 1/2					IN HOLE WITH TESTING TOOLS		4	6:30	2 1/2																																									
		Conditioning mud & hole			6	6					Pulling out hole		9:30	10:30	1					TESTING-6394-6462		6:30	9	2 1/2																																									
		Pulled up to 6200 to check hole. O.K.		6							Pulled tight 4931 reaming tight hole.		10:30							PULLING PACKER LOOSE		9	10	1																																									
		Ran back to Bottom		6:45							Pulling out of hole.		11:00	12:30	1 1/2					PULLING OUT OF HOLE		10	12	2																																									
		Circulating. Rep. Orders.		7:15							Service rig check B.O.P.S.		12:30	12:45	1/4																																																		
											Measured 14" std and turn's 1" packer		12:45																																																				
											Plus 4 1/2 D.C. measured packer and making up same.		4:00	3 1/4																																																			
		Driller: J Vanstone								Driller: Jim Kerby										Driller: R. A. Bush																																													

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Timehrs.

Total Company Timehrs.

To: Impusher

Approved by

808. 208

8. 11th

12 13



Sum. Hetha LSD. *D7* SEC. TWN. RGE. W. Contractor *Imp Oil Ltd* Type Rig *3at 80-B* Month *3* Day *12* 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																											
		7771			9"													7771			9"													7771			9"																												
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																						
		5"	79	1	11	18 Dcs					5"		79	1	11	18 Dcs					5"		79	1	11	18 Dcs																																							
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																											
COLLAR		8	7	2 7/8		DRILLING STRING										COLLAR		8	7	2 7/8		DRILLING STRING										COLLAR		8	7	2 7/8		DRILLING STRING																											
DATA		10	6 1/2	11												DATA		10	6 1/2	11												DATA		10	6 1/2	11																													
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																				
		RR 45	W7								RR 45		W7								RR 45		W7																																										
		Bit Serial No. 23213										Table R.P.M.												Bit Serial No. 091872										Table R.P.M.												Bit Serial No. 091872										Table R.P.M.									
		Jet or Conventional -										Nozzle Size												Jet or Conventional -										Nozzle Size												Jet or Conventional -										Nozzle Size									
SURVEYS		Kind	at			Ft.			Deg. off			Kind		at			Ft.			Deg. off			Kind		at			Ft.			Deg. off																																		
SLUSH PUMP RECORD		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size																																			
		On Line	Circulating									On Line	Circulating									On Line	Circulating																																										
		1 1/2	7 1/2	1000	18"	72	7 1/4															2 1/2	5 1/2	950	18	72	7 1/4																																						
MUD RECORD		Time	Visc.	Wt.	W. L.	pH	ADDITIVES — POUNDS					Time		Visc.	Wt.	W. L.	pH	ADDITIVES — POUNDS					Time		Visc.	Wt.	W. L.	pH	ADDITIVES — POUNDS																																				
		12 15	190	10.2			DST. 7 - MISRON BRIDGE at 4430'																	DST 8 MISRON BRIDGE 2000'		HYDRO-GEL-1400# CAUSTIC-600# GIME-200# UISKAL-200# WATER																																							
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																										
DETAIL OF OPERATIONS AND REMARKS		Circulating					From	To	Hrs.	Laying down & breaking down					From	To	Hrs.	Picked up & made up					From	To	Hrs.																																								
		Conditioning mud & hole					12	12:30	1/2	Packer					9:00	9:00	1	Testing tools					4:30	4:30	1/2																																								
		Trip out to run tester					12:30	3	2 1/2	Look in over tool					9:00	9:30	1/2	Run in hole to 2000'					4:30	5:15	3/4																																								
		Making up Packer					3	4:15	1 1/4	Service rig check B.O.P.					9:30	9:45	1/4	Tool setting - pulled out					5:15	6:30	1 1/4																																								
		Run Packer to 4430' Bridge					4:15			Running in hole. 6424					9:45	12:00	1 3/4	Broke & layed down					6:30																																										
		Tight hole, tool setting						6	1 3/4	Circ & condition hole					12:00	1:30	1 1/2	Testing tools						7:30	1																																								
		Working Packer @ Tight Place					6	6:30	1/2	Pulling out of hole					1:30	3:30	2	Run in hole to 6700'					7:30	9:30	2																																								
		Pulled Packer out of hole					6:30	7:45	1 1/4	Picking up Packer					3:30	4:00	1/2	Drilled out bridge					9:30	10	1/2																																								
		Breaking down Packer					7:45	8	1/4									Run in to bottom - circulating					10	12	2																																								
									8 hrs																																																								
Driller		<i>J. Danstone</i>										Driller										<i>Jim Kerby</i>										Driller										<i>R. A. Bishop</i>																							

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher *B. A. Hearn* Approved by

1061

Total Contact Time		his		Total Company Time		his		Approved by		his	
BEAMING		CIRCUITING		O.S. TESTING		RIG REPAIRS		CORROSION HOLES		LOST CIRCLES	
DRILLING		W.O. ORDER		MISCELLANEOUS		WORKING RIGS		WATER DRILLING LINE IN USE		REEL SERIAL NO.	
CLASSES OF TIME BREAKDOWN		CONCRETE WORK		LOGGING		RIG MAINTENANCE		WATER DRILLING LINE IN USE		REEL SERIAL NO.	

Sp. *San Yeth* LSD. *D7* SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor *Imp. Oil Lth* Type Rig *pat 80-B* Month *3* Day *11* 19*61*

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																									
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation																																					
	7771			9"			7771			9"			7771			9"																																						
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																				
	5"	70	1		Packer Load Set Ratchet		5"	70	1	a Packer Load Set Ratchet		5"	79	1	11	18DC's																																						
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																				
	COLLAR				9ft up.	DRILLING STRING	DRILL COLLARS	COLLAR				9ft up	DRILLING STRING	DRILL COLLARS	COLLAR	8	7	2 3/8		DRILLING STRING	DRILL COLLARS																																	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																												
								Drilled	Reamed									Drilled	Reamed									Drilled	Reamed																									
	Bit Serial No.	Table R.P.M.					Bit Serial No.	Table R.P.M.					Bit Serial No.	Table R.P.M.																																								
	Jet or Conventional -	Nozzle Size					Jet or Conventional -	Nozzle Size					Jet or Conventional - CON	Nozzle Size 1 1/16																																								
SURVEYS	Kind	at	Ft.	Deg. off					Kind	at	Ft.	Deg. off					Kind	at	Ft.	Deg. off																																		
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																
SLUSH PUMP RECORD	On Line	Circulating							On Line	Circulating								On Line	Circulating																																			
No. 1 No. 2		8																	3 1/4																																			
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																		
	1230	190	10.7																																																			
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																				
DETAIL OF OPERATIONS AND REMARKS		From	To	Hrs.						From	To	Hrs.						From	To	Hrs.																																		
	CIRCULATING + Conditioning mud.	12	1	1					Set packer @ 6400-6450	8:00								BREAKING & LAYING DOWN	4																																			
	TRIP OUT to run test log	1	3:30	2 1/2					Packer did not hold.	8:45	3/4						TESTING TOOLS		4:30	1/2																																		
	Making up selective zone Packer.	3:30							pulled packer out of hole	8:45	11:00	2 1/4					CUT 65' OFF DRILLING LINE	4:30	5:30	1																																		
Run Packer in hole to 6400. to test interval 6400-6450									breaking down and shoving packer.	11:00							SERVICED RIG	5:30	5:45	1/4																																		
									packing up to move gullies.		2:15	3 1/4					RUN IN HOLE	5:45	8	2 1/4																																		
									Running in the hole	2:15	3:00	3/4					CIRCULATING	8	12	4																																		
									hit bridge @ 1510	3:00																																												
									Pulling out hole	3:45	4:00	1/4																																										
									to change packer.																																													
	Driller	J Vanstone																	Driller	Jim Kerby																	Driller	P.L. Bishop																

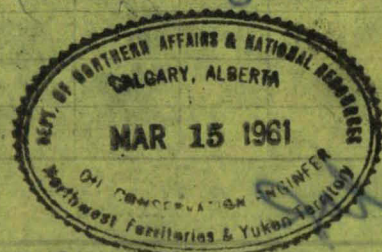
CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	PREVENTER EQUIPMENT TODAY
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:			
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES ☒ NO ☐

Total Contract Timehrs. Total Company Timehrs. Toolpusher D. J. Wear Approved by _____

7/10/1911

DEPTH	DRILLING STRING	BIT RECORD	SURVEYS	MUD RECORD	CORING	DETAILS OF OPERATIONS AND REMARKS	Time	
							From	To
1771	2" 70 1	2" 70 1	1771	1771	1771	1771	1771	1771
1772	2" 70 1	2" 70 1	1772	1772	1772	1772	1772	1772
1773	2" 70 1	2" 70 1	1773	1773	1773	1773	1773	1773
1774	2" 70 1	2" 70 1	1774	1774	1774	1774	1774	1774
1775	2" 70 1	2" 70 1	1775	1775	1775	1775	1775	1775
1776	2" 70 1	2" 70 1	1776	1776	1776	1776	1776	1776
1777	2" 70 1	2" 70 1	1777	1777	1777	1777	1777	1777
1778	2" 70 1	2" 70 1	1778	1778	1778	1778	1778	1778
1779	2" 70 1	2" 70 1	1779	1779	1779	1779	1779	1779
1780	2" 70 1	2" 70 1	1780	1780	1780	1780	1780	1780
1781	2" 70 1	2" 70 1	1781	1781	1781	1781	1781	1781
1782	2" 70 1	2" 70 1	1782	1782	1782	1782	1782	1782
1783	2" 70 1	2" 70 1	1783	1783	1783	1783	1783	1783
1784	2" 70 1	2" 70 1	1784	1784	1784	1784	1784	1784
1785	2" 70 1	2" 70 1	1785	1785	1785	1785	1785	1785
1786	2" 70 1	2" 70 1	1786	1786	1786	1786	1786	1786
1787	2" 70 1	2" 70 1	1787	1787	1787	1787	1787	1787
1788	2" 70 1	2" 70 1	1788	1788	1788	1788	1788	1788
1789	2" 70 1	2" 70 1	1789	1789	1789	1789	1789	1789
1790	2" 70 1	2" 70 1	1790	1790	1790	1790	1790	1790
1791	2" 70 1	2" 70 1	1791	1791	1791	1791	1791	1791
1792	2" 70 1	2" 70 1	1792	1792	1792	1792	1792	1792
1793	2" 70 1	2" 70 1	1793	1793	1793	1793	1793	1793
1794	2" 70 1	2" 70 1	1794	1794	1794	1794	1794	1794
1795	2" 70 1	2" 70 1	1795	1795	1795	1795	1795	1795
1796	2" 70 1	2" 70 1	1796	1796	1796	1796	1796	1796
1797	2" 70 1	2" 70 1	1797	1797	1797	1797	1797	1797
1798	2" 70 1	2" 70 1	1798	1798	1798	1798	1798	1798
1799	2" 70 1	2" 70 1	1799	1799	1799	1799	1799	1799
1800	2" 70 1	2" 70 1	1800	1800	1800	1800	1800	1800



Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher R. H. Hulse Approved by _____

LSD. 07 SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor W.A. Oil Ltd Type Rig Nat. 80-B Month 3 Day 9 1961

[illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	PREVENTER EQUIPMENT TODAY
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:			
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher D. Adams Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 48

WPSUN NEFLA LSD. D7 SEC. TWN. RGE. W. Contractor IMP OIL LTD. Type Rig NAT 80B Month 3 Day 8 1961

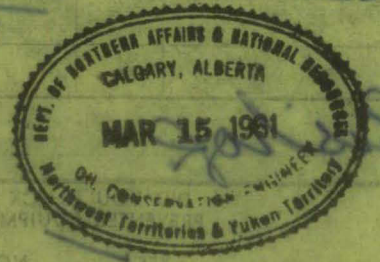
1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																															
DEPTH		From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation																													
		7756	7765	9	6 1/8										7765	7771	6	6 1/8										7771			9																														
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.									Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.									Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																										
		5"	80	2	14		57-10									5"	80	2	8		57-10									5"	79	1	13	18DC'S																											
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																									
COLLAR		8	7"	2 7/8		DRILLING STRING										COLLAR	8	7"	2 7/8		DRILLING STRING										COLLAR	8	7"	2 7/8		DRILLING STRING																									
DATA		4	6 1/2	"												DATA	4-10	6 1/2	"												DATA	10	6 1/2	2 7/8		148M																									
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																								
		1	DIA	2:45 AM				8-12									1	DIA	2:45 AM	10:00	7:14	7771	8-12 M	15'									49	RGJ	6 PM				20M		15'																				
		Bit Serial No. 2124										Table R.P.M. 60										Bit Serial No. RT24-Hydrolog 34102										Table R.P.M. 60										Bit Serial No. 34102										Table R.P.M. 45									
		Jet or Conventional - DIA										Nozzle Size										Jet or Conventional - DIA										Nozzle Size										Jet or Conventional - JET										Nozzle Size 1 1/16									
SURVEYS		Kind	at												Ft.	Deg. off	Kind	at												Ft.	Deg. off	Kind	at												Ft.	Deg. off															
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																										
		On Line	Circulating													On Line	Circulating													On Line	Circulating																														
		6	5		18"		6 1/4																																																						
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																								
		4:00	415	10.1			Water										6:30	235														6:30	235																												
		7:00	385	10.5			Shovelled ditch										9:00	225	10.7	5.4												10:45	218																												
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																										
		7756	7765			2	Hydrolog.									7756	7771	15'	9	2	Hydrolog.																																								
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.																From	To	Hrs.																From	To	Hrs.																
		TRIP IN to CORE					12	2	2											CORING 6 1/8 hole.					8:00	10:00	2											RUN IN HOLE					4	5	1																
		CIRCULATING BEFORE CORING					2	2:45	3/4											BREAKING OFF CORE.					10:00	10:30	1/2											FILLED PIPE - CIRCULATED					5																		
		CORING					2:45	8	5 1/4											PULLING CORE OUT OF HOLE.					10:30	1:15	2 3/4											REAMED TO TOP OF RAT HOLE						6	1																
																				RECOVERING CORE & STANDING					1:15													REAMING 6 1/8 HOLE TO 9"					6	8:30	2 1/2																
																				JACK BBL.						2:15	1											INTERVAL 7756-7771																							
																				SERVICE UP & CHECK B.P.P.					2:15	2:30	1/4											CIRCULATING BEFORE					8:30	11:30	3																
																				RUNNING IN THE HOLE					2:30	4:00	1 1/2											PULLING TO LOG					11:30	12	1 1/2																

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 48

WESUN WEA LTD D7 SEC TWIN W CONTRACTOR IMP OIL LTD Type Rig NAT 808 Month 3 Day 2 1961

REMARKS AND ACTIONS	DETAILS OF OPERATIONS	CORING	MUD RECORD	SLUSH PUMP RECORD	SURVEYS	BIT RECORD	DRILLING STRING	DEPTH	1st Tour From 12:00 Midnight To 3:00 a.m.		2nd Tour From 3:00 a.m. To 4:00 p.m.		3rd Tour From 4:00 p.m. To 12:00 p.m.	
									From	To	From	To	From	To
Diller J. Van der ...	Trip in the Core Circulating before Coring Coring 2 1/4 2 1/4 12 2	1750 1715 2 Hydrod.	400 115 10.1 300 85 10.5 Water Mud Mud	C 14" 34 14" 34 14" 34	HOURS On Line Pump Press Circulating	Bit Serial No. 2124 Let of Conventional - Dia Nozzle Size Deg. off	1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12	7750 1715 2 7750 1715 2 7750 1715 2	From	To	From	To	From	To
									Formation	Hole Size	Formation	Hole Size	Formation	Hole Size
Diller J. Van der ...	Circulating before Coring Coring 2 1/4 2 1/4 12 2	1750 1715 2 Hydrod.	400 115 10.1 300 85 10.5 Water Mud Mud	C 14" 34 14" 34 14" 34	HOURS On Line Pump Press Circulating	Bit Serial No. 2124 Let of Conventional - Dia Nozzle Size Deg. off	1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12	7750 1715 2 7750 1715 2 7750 1715 2	From	To	From	To	From	To
									Formation	Hole Size	Formation	Hole Size	Formation	Hole Size
Diller J. Van der ...	Circulating before Coring Coring 2 1/4 2 1/4 12 2	1750 1715 2 Hydrod.	400 115 10.1 300 85 10.5 Water Mud Mud	C 14" 34 14" 34 14" 34	HOURS On Line Pump Press Circulating	Bit Serial No. 2124 Let of Conventional - Dia Nozzle Size Deg. off	1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12 1 Dia 2 1/4 8-12	7750 1715 2 7750 1715 2 7750 1715 2	From	To	From	To	From	To
									Formation	Hole Size	Formation	Hole Size	Formation	Hole Size



Approved by: [Signature] Date: [Blank] Total Contact Time: [Blank] Total Company Time: [Blank]

REMARKS: [Blank]

DETAILS OF OPERATIONS: [Blank]

CORING: [Blank]

MUD RECORD: [Blank]

SLUSH PUMP RECORD: [Blank]

SURVEYS: [Blank]

BIT RECORD: [Blank]

DRILLING STRING: [Blank]

DEPTH: [Blank]

P. SUN NETA LSD. D7 SEC. TWN. RGE. W. Contractor IMP. OIL LTD. Type Rig NAT 800 Month 3 Day 7 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																
DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation										
		7741	7751	10	6 1/8									7751	7757	3	9	Red Beds								7751	7756	5	9"											
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.											
		5"	80	2 pups	11	12	57-10					5"		75	1	30	889.73						5"		75	1	24	889.73	57-10											
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										
COLLAR		8	7	2 7/8		DRILLING STRING						COLLAR		8	7	2 7/8		DRILLING STRING						COLLAR		8	7	2 7/8		DRILLING STRING										
DATA		4	6 1/8	"								DATA		22	6 1/2	"		183m 66M						DATA		22	6 1/2	2 7/8		183M 66M										
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE									
		1	Dia	12 mid 7 AM	7	7751	12 M	10 cred.				5		W7R 2 1/2					5-33				5		W7R 2 1/2	5.45	3 1/2	7756	50M	5	10'									
		Bit Serial No. 2124 Hycolog. Table R.P.M. 74										Bit Serial No. 11720 Table R.P.M. 115										Bit Serial No. 11720 Table R.P.M. 60																		
		Jet or Conventional - Dia Nozzle Size										Jet or Conventional - CONO Nozzle Size 1 1/16										Jet or Conventional - CON Nozzle Size 1 1/16																		
SURVEYS		Kind	at		Ft.		Deg. off						Kind		at		Ft.		Deg. off						Kind		at		Ft.		Deg. off									
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													
		On Line	Circulating									On Line		Circulating								On Line		Circulating																
No. 1		7	1	1200	18"	40	6 1/4																																	
No. 2																																								
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									
		130	380				Water						6:00		240				1000 HYDROBEL																					
		345	265	10.7			Shoveled ditch												200 LIME																					
		600	290																200 VISKAL																					
																			100 CAUSTIC																					
																			WATER																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											
		7741	7751	10		1	Hycolog.					CORRECTED dept 3' from 7741 to 7738.																												
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.											From	To	Hrs.											From	To	Hrs.					
		CORING					12	7	7						Pulling out of hole					8:00	9:30	1 1/2						DRILLING					4	5:45	1 3/4					
		BREAKING OFF CORE					7:15	7:15	1/4						BREAKING CORE bbl & RECOVERY					9:30								CIRCULATING TO CORE					5:45	6:30	3/4					
		PULLING OUT OF hole					7:15	8	3/4						CORE					10:30	1							PULLED TO CORE					6:30	9:30	3					
															Laying down a pattern new					10:30								PICKED UP DIA CORE BBL					9:30							
															survival and core pbl.													SERVICED SAME					10:30	1						
															Service rig check B.O.P.					11:15	11:30	1/4						RUN DRILL COLLARS IN					10:30							
															Measure in & running in					11:30								HOLE					11	1/2						
															hole.													CUT 52' OFF DRILLING												
															Reaming from 7738-7748					2:15	3:30	1 1/2						LINE					11	12	1					
															Driller					3:45	4:00	15						Driller												
															Driller													Driller												

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 checks Kelly cook.

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

LSD. D7

SEC.

TWN.

RGE.

W.

Contractor

Imp. Oil Ltd.

Type Rig

Lat 80-B

Month

3

Day

6

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7690	7717	27	9"	Red Beds

From	To	Hole Made	Hole Size	Formation
7717	7741	24	9"	Red Beds

From	To	Hole Made	Hole Size	Formation
7741			8 1/8"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5"	74	2	6	889-73	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	22	6 1/2	"		183

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5	75	—	12	889-73	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	22	6 1/2	"		183 M

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5	80	1-2 PUPS			57.10

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	4	6 1/2	2 7/8		

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
50	WTR	9:30 PM				50 M.	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
50	WTR	9:30 PM	2:45 PM	17:44	7741	35-50	58

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
1	DIA.						

Bit Serial No. 1703 Table R.P.M. 60
 Jet or Conventional - CONV. Nozzle Size 1 1/16

Bit Serial No. 1703 Table R.P.M. 60-120
 Jet or Conventional - CONV. Nozzle Size 1 1/16

Bit Serial No. 2124 Table R.P.M.
 Jet or Conventional - DIAMOND Nozzle Size

SURVEYS

Kind at Ft. Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

SLUSH PUMP RECORD

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				
8		1350	18"	70	6 1/4

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				
		1350	18"	70	6 1/4

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:00	240				Water
3:00	228	10.7	5.		Shovelled ditch
5:00	226				
6:30	230				
7:30	234				

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8:30	242				water
10:30	210				
12:30	210	10.7			
2:30	208				

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND MARKS

	From	To	Hrs.
Drilling	12	8	8

	From	To	Hrs.
Drilling	8:00	2:45	6 3/4
Circ before pulling out to core	2:45	4:00	1 1/4

	From	To	Hrs.
PULLED OUT TO CORE	4	7 1/5	3 1/4
PICKED UP CORE BBL	7 1/5		
SERVICED SAME	8:30		1 1/4
SERVICED RIG - CHECKED BOSS	8:30	8:45	1/4
RUN IN TO CORE	8:45	11:15	2 1/2
CIRCULATING BEFORE	11:15		
CORING	12		3/4
			8 HRS

Driller

J. Vanstone

Driller

Jim Kerby

Driller

P. A. B. Sig

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO:
 DRILLING: FISHING:
 REAMING: CIRCULATING:

CONDITIONING MUD: TRIPPING:
 CORING:

CASING: W.O.C.
 D.S. TESTING:

LOGGING: W O ORDERS:
 RIG REPAIRS:

RIG MAINTENANCE: MISCELLANEOUS:
 CONDITION HOLE:

REAMING CLEANING: WORKING PIPE:
 LOST CIRC.:

MNFR. DRILLING LINE IN USE

REEL SERIAL No.

MNFR. OF KELLY HOSE IN USE

HOSE SERIAL No.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher

Robert H. Moore

Approved by

2-0812

LSD. D7 SEC.

TWN.

RGE.

W.

Contractor Imp. Oil LtdType Rig 80-BMonth 3Day 51961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation											
	7662	7672	10	9"	Quartz	7672	7683	11	9"	Quartz	7683	7690	7	9"	RED BEDS + QUARTZ											
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								
	5"	74	1	21	889-73	—	5"	74	1	10	889-73	—	5"	74	1	3	889-73	—								
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								
	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING								
	DATA	22	6 1/4	11	183	66	DATA	22	6 1/4	11	183 M	66 M.	DATA	22	6 1/4	2 7/8	183 M	66 M.								
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		
	49	R415	9:15 AM				35-40		49	R615	9:15 AM	3:15 PM	29	7683	55-42	43		50	WTR	9:30 AM				50 M		
	Bit Serial No.	34002				Table R.P.M.	45	Jet or Conventional	Jet	Bit Serial No.	34102				Table R.P.M.	45	Jet or Conventional	Jet	Bit Serial No.	1703				Table R.P.M.	60	Jet or Conventional
SURVEYS	Kind	at		Ft.	Deg. off	Kind	at		Ft.	Deg. off	Kind	at		Ft.	Deg. off											
	Kind	at		Ft.	Deg. off	Kind	at		Ft.	Deg. off	Kind	at		Ft.	Deg. off											
SLUSH PUMP RECORD	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size								
	8	1 1/2	1500	18"	62	6 1/4	5 1/4	1	1200	18"	45	6 1/4	2 3/4	1	1300	14"	64	6 1/4								
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								
	12:30	242				1200# Hydrogel	8:00	210	10.7				11:00	230	10.7											
	2:00	244	10.7	5.4		250# Lime	10:00	210																		
	4:00	229				200# Viskal	2:00	215																		
	6:00	218				100# caustic																				
	7:30	208				Shoveled ditch Water																				
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.																	
	Drilling	12	2	2	Drilling	8:00	3:12	7 1/4	PULLING OUT OF HOLE	4	6:30	2 1/2														
OFF BOTTOM, NO FUEL SUPPLY	2			Lot @ 7680	3:15	3:30	1/4	SERVICE RIG-CHECKED BOP	6:30	6:45	1/4															
to DRAW WORKS MOTOR	2:45	3/4		Pulling out of hole	3:30	4:00	1/2	RUN IN HOLE	6:45	9:15	2 1/2															
DRILLING	2:45	8	5 1/4					CIRCULATED TO BOTTOM	9:15	9:30	1/4															
								DRILLING	9:30	12	2 1/2															
											8 HRS															
Driller	J. Janstone			Driller	Jim Kerby			Driller	L. A. Bishop																	

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time

Total Company Time

Toolpusher

Approved by

Day 2

LSD. 197

SEC.

TWN.

RGE.

W.

Contractor

Imp Oil Ltd

Type Rig

Nat. B.O.B

Month 3

Day 4

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7634	7640	6	9"	Quartz

From	To	Hole Made	Hole Size	Formation
7640	7649	9	9"	Quartz

From	To	Hole Made	Hole Size	Formation
7649	7662	13	9"	Quartz

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5"	74	—	22	889-73	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	22	6 1/4	"		182

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5"	74	—	13	889-73	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	22	6 1/4	"		182 m

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
5"	74	1	30	889-73	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
COLLAR	8	7	2 7/8		DRILLING STRING
DATA	22	6 1/4	2 7/8		183 m

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
48	W7R2	9:15	3:45	5 3/4	7640	55	10
49	R415						

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
49	R415	9:15				35 m	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
49	R415	9:15				35-40	

Bit Serial No. 12721 - 34102 Table R.P.M. 70
 Jet or Conventional - Con - Jet Nozzle Size 1 1/16

Bit Serial No. 34102 Table R.P.M. 44
 Jet or Conventional - JET Nozzle Size 9/16

Bit Serial No. 34102 Table R.P.M. 45
 Jet or Conventional - JET Nozzle Size 5/8

SURVEYS

Kind TOTCO at 7635 Ft. 2 1/2° Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

SLUSH PUMP RECORD

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				
3	5	1500	18"	64	6 3/4

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				
1 1/2	6 3/4		18"	64	6 3/4

HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
On Line	Circulating				
			18"		6 1/4
			14"		6 3/4

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1:00	212				1000# Hydrogel
2:30	203	10.7			250# Viskal
					200# Lime
					100# caustic

Shoveled ditch Water

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
10:30	255				water
12:00	245	10.7			
1:30	245				
3:00	245				

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
4:30	225	10.7			WATER
6:30	212		5.2		SHOVELED DITCH
10:30	235				

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Drilling	12	3	3
Circulated For TOTCO	3	3:15	1/4
TOTCO @ 7635 2 1/2°	3:15	3:30	1/4
TRIP OUT TO DRILL COLLARS	3:30	5:30	2
CUT 52' OFF DRILL LINE	5:30		
Service Rig Checked BOPs		6:15	3/4
Pulled OUT DRILL COLLARS	6:15	6:45	1/2
TRIP IN hole	6:45	8	1 1/4
			8 hrs

	From	To	Hrs.
Running in hole	8:00	9:15	1 1/4
Drilling	9:15	4:05	6 3/4
			8 hrs

	From	To	Hrs.
DRILLING	4	11:30	7 1/2
SERVICE RIG	11:30	11:45	1/4
DRILLING	11:45	12	1/4
			8 hrs

Driller J. Vanstone

Driller Jim Kerby

Driller P. A. Bishop

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. Kelly BOPs DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

Approved by

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher J. DeWitt Approved by _____

Total Contract Time hrs. Total Company Time hrs. Toolpusher L. D. [Signature] Approved by

LSD. D7

SEC.

TWN.

RGE.

W.

Contractor L.O.L.

Type Rig Nat 80-B

Month 2

Day 1

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																											
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																							
	7512	7523	11	9"	Quartz sand	7523	7545	22	9"	QUARTZ & SAND	7545	7552	7	9"	SANDY-SILT																							
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																				
	5"	72	2	18	889-73	—	5"	73	—	27	889-73	—	5"	73	—	20	889-73	—																				
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																				
	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING																				
	DATA	22	6 1/4	"		176 M.	66 M	DATA	22	6 1/4	"		176 M	66 M	DATA	22	6 1/4	2 7/8		176 M	66 M																	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
	44	WTR-2	4:45 PM				35-50	11'	44	WTR-2	4:45 PM	3:30	10 3/4	7545	50-55 M	33	44	WTR-2	4:45 PM	3:30	10 3/4	7545	50-55 M	33														
SURVEYS	Bit Serial No.	688					Table R.P.M.	60					Bit Serial No.	688					Table R.P.M.	60					Bit Serial No.	688-23213					Table R.P.M.	60						
	Jet or Conventional	Conv.					Nozzle Size	1 1/16					Jet or Conventional	Conv.					Nozzle Size	1 1/16					Jet or Conventional	CON-CON					Nozzle Size	1 1/16						
	Kind	at					Ft.	Deg. off					Kind	TOTCO					at	7542	Ft.	5					Deg. off	Kind	at					Ft.	Deg. off			
SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																				
	On Line	Circulating					On Line	Circulating					On Line	Circulating																								
	No. 1	3 1/4	4 3/4	1500	18"	70	6 3/4	7 1/2	1500	14"	65	6 3/4	2 1/2	1500	14"	63	6 3/4																					
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																				
	6:30	208	10.7			1000 # Hydrogel	8:30	210	10.7	5.2		water						HYDROGEL 1200																				
	7:30	205				250 # Lime	10:00	210				100 # CAUSTIC						LIME 250																				
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																				
DETAIL OF OPERATIONS AND REMARKS	TRIP OUT OF hole						DRILLING						PULLED OUT OF HOLE																									
	Service Rig Checked BOPs						checked all fire fighting equip.						SERVICE RIG-CHECKED BOPs																									
	Trip in hole						every thing "o.k."						RUN IN HOLE																									
DETAIL OF OPERATIONS AND REMARKS	Layed Down Single Circulated						TOTCO @ 7542						DRILLING																									
	to Bottom						Pulling out of hole																															
	Drilling																																					
DETAIL OF OPERATIONS AND REMARKS	Driller J. Vanstone						Driller Jim Kerby						Driller L. A. Bisher																									

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. Checked Kelly BOP. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: YES NO

Total Contract Timehrs.

Total Company Timehrs.

Toolpusher A. Barnett

Approved by

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [Signature] Approved by _____

Imp. SUN NET 17 LSD. D7 SEC. TWN. RGE. W. Contractor Co. Tools Type Rig NAT-80-B. Month 2 Day 27 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																					
DEPTH		From	To	Hole Made	Hole Size	Formation						From	To	Hole Made	Hole Size	Formation						From	To	Hole Made	Hole Size	Formation																																			
		7449			9"	Dol. & SAND						7449	7467	18	9"	Dolomite & QUARTZ						7467	7475	8	9	Dolomite & Quartz																																			
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																		
		5	11	2	4	889.73	—					5"	72	—	13	889-73	—					5	72	—	5	889-73	—																																		
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																	
COLLAR		8	7	2 7/8		DRILLING STRING						COLLAR	8	7	2 7/8		DRILLING STRING						COLLAR	8	7	2 7/8		DRILLING STRING																																	
DATA		22	6 1/4	2 7/8		160						DATA	22	6 1/4	"		66						DATA	22	6 1/4	"		164 M																																	
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																
		41	YH W G					5-7	13.			41	YH W G	4.15 AM	2:30 PM	9 1/2	7467	40-45	18	15	Under Gauge			42	WTR	8:45 PM																																			
		Bit Serial No. 5027										Table R.P.M. 40										Bit Serial No. 5027										Table R.P.M. 65										Bit Serial No. 11206										Table R.P.M. 62.									
		Jet or Conventional -										Nozzle Size										Jet or Conventional - CON										Nozzle Size 1 1/16										Jet or Conventional - CON										Nozzle Size 1 1/16									
SURVEYS		Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off																																
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																														
No. 1		On Line	Circulating						On Line	Circulating					On Line	Circulating					On Line	Circulating					On Line	Circulating																																	
No. 2		3 3/4		1400	18	70	6 3/4		6 1/2		1 1/2	1400	18	70	6 3/4		6 1/2		6 1/2																																										
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																	
		5:15	227	10.9			GEL - 500#		8:30	212	10.7	6.4		4% oil 20% Solids		10:30	200				1400# HYDRO GEL							300# LIME																																	
		6:15	224				LIME - 400#		10:00	216				800# Hydrogel							200# Viskay							100# CAUSTIC																																	
		7:15	225	10.9	5.6		VISHAL - 300#		12:00	198				Water							WATER																																								
							CAUSTIC - 100#		2:00	203	10.7			Shoveled ditch																																															
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																	
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.					From	To	Hrs.					From	To	Hrs.					From	To	Hrs.																																		
		PULLING OUT.		12	2	2			Reamed Under Gauge hole		8					Pulling out of hole.		4:00	6:00	2																																									
		SERVICING RIG		2	2:15	1/4			7447-7449			8:30	1/2			Service rig checked BOP's		6:00	6:15	1/4																																									
		RUNNING IN HOLE		2:15	4:45	2 1/2			Drilling		8:30	9:15	3/4			RUNNING IN HOLE		6:15	8:45	2 1/2																																									
		REAMING UNDER GAUGE HOLE FROM 7434-7447		4:45	8	3 1/4			Made Connection Chang Kelly Driller Sub		9:15	9:30	1/4			DRILLING		8:45	12:00	3 1/4																																									
									Drilling		9:30	2:30	5																																																
									TRIP OUT OF HOLE		2:30	3-	1/2																																																
									REPLACING BROKEN LONG JAW ON BJ TONG. TYPE B		3	3:15	1/4																																																
									TRIP OUT		3:15	4-	3/4																																																
		Driller: Onehalld								Driller: J. Vanstone								Driller: Jim Kerby																																											

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. Check Kelly. dock DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES ☒ NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

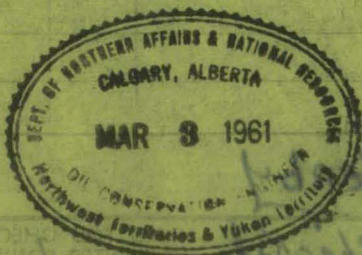
Form 54402 (250 hrs.-3-59) *Imperial Oil* *SUN METAL* LSD *D-7* SEC. *D-7* TWN. *D-7* RGE. *D-7* W. *D-7* Contractor *D-7* Type Rig *NAT. 90-B* Month *2* Day *26* 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																																																		
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																																																										
		7373	7421	44	9	Line + Dol.												7421	7433	12	9"	Line + Dolomite												7433	7449	16	9	Dolomite																																																										
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.					Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.					Core Bbl. Ft.					Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.					Core Bbl. Ft.																																																							
		5	71	2	30	889-73										5"		71	2	18	889-73										5		71	2	2	889-73																																																												
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																																										
COLLAR		8	7	2 7/8		DRILLING STRING										DRILL COLLARS										COLLAR		8	7	2 7/8		DRILLING STRING										DRILL COLLARS										COLLAR		8	7	2 7/8		DRILLING STRING										DRILL COLLARS																												
DATA		22	6 1/4	2 7/8		168										66										DATA		22	6 1/4	"		174										66										DATA		22	6 1/4	"		174										66																												
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																																									
		39	WTR	10:30				40								40		YH	10:30	10:45	11:34	7433	40-45	71	Bald								49		YH	5:30 PM	11:40 AM	5 1/2	7449	50	16																																																							
		Bit Serial No. 1677										Table R.P.M. 100												Bit Serial No. 1677 - 004001										Table R.P.M. 100												Bit Serial No. - 004001										Table R.P.M. 40-8																																								
		Jet or Conventional -										Nozzle Size 1 1/16												Jet or Conventional - Conv. jets 13/32 YH										Nozzle Size 1 1/16												Jet or Conventional - Jets.										Nozzle Size 1 1/32																																								
SURVEYS		Kind	at										Ft.										Deg. off										Kind		at										Ft.										Deg. off										Kind		at										Ft.										Deg. off									
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																																									
		On Line	Circulating															On Line		Circulating															On Line		Circulating																																																											
		9		1400	18	70	6 1/4											2 1/2			1300	14	64	6 3/4											2 1/2			1400	18	52	6 1/4																																																							
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																																									
		130	205	11.			GEL 150#										830		215	10.9	6.6		600# Hydrogel										730		260				400# Line																																																									
		245	197	10.9	6.8		lime 200#										1000		215				100# Caustic										730		258				250# Vis Hal.																																																									
		5	197				VISCAL 150#																Water																200# Caustic																																																									
		6	196				GAUSTIC 100#																250 GAL. DIESEL.																1200# Sal.																																																									
		7	198																																				water																																																									
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																																							
DETAIL OF OPERATIONS AND REMARKS												From To Hrs.																				From To Hrs.																				From To Hrs.																																												
		Drilling										12 8 8										Drilling										8 10:15 2 1/4										Running in hole.										4:00 5:30 1 1/2																																												
		Circulated for Totco																				10:15 10:30 1/4										Drilling										5:30 11:00 5 1/2																																																						
		Totco																				10:30 10:45 1/4										Pulling out of hole										11:00 12 1																																																						
		Trip out of hole																				10:45 1:45 3																																																																										
		Pulled 1st 12 stds slowly from Bottom.																																																																																														
		Service Rig Checked BOPs																				1:45 2 - 1/4																																																																										
		Run in Drill Collars.																				2 2:45 3/4																																																																										
		Cut 52' off Drill Line																				2:45 3:15 1/2																																																																										
		Running in hole																				3:15 4 - 3/4																																																																										
		Driller: <i>C. Chelard</i>																				Driller: <i>J. Vanstone</i>										8 hrs																																																																
		Driller: <i>Jim Kerby</i>																																																																																														

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. *Checked* DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. *Kelly RDP* YES ☒ NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: YES ☒ NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher *P. Bennett* Approved by

[illegible]

LSD.

SEC.

TWN.

RGE.

W.

Contractor

I.O.I.

Type Rig

NAT. 80-B

Month

2

Day

25

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From To Hole Made Hole Size Formation

7362 9 11ME

From To Hole Made Hole Size Formation

7362 9"

From To Hole Made Hole Size Formation

7362 7373 11 9" Lime + Dol.

DRILLING STRING

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

5" 71 - 17 889-73

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

5" 71 - 17 889-73

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

5" 71 - 17 889-73

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

COLLAR

DATA

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

COLLAR

DATA

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

COLLAR

DATA

BIT RECORD

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

39 W7R

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

39 W7R

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

39 W7R

Bit Serial No. 1677 Table R.P.M.

Jet or Conventional - Nozzle Size 1 1/16

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size 1 1/16

Bit Serial No. 1677 Table R.P.M. 100

Jet or Conventional - CONVO Nozzle Size 1 1/16

SURVEYS

Kind at Ft. Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

SLUSH PUMP RECORD

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

1200 14 70 6 1/4

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

8 14 6 1/4

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

8 14 6 1/4

MUD RECORD

Time Visc. Wt. W L pH ADDITIVES — POUNDS

115 194 10.8 6.1 DIESEL FUEL 350 gal

400 202 GEL 1300#

LIME 400#

VISKAL 200#

CAUSTIC 200#

Time Visc. Wt. W L pH ADDITIVES — POUNDS

D.S.T. #3. M.O. JOHNSTON TESTERS.

7 1/4" dual x 4 bblers.

Interval. 72 97 - 73 63, I.S.I 1 hr.

V.O. 12:25 Noon. Weak air blow thru out test.

V.C. 1:05 P.M. Final shut in 1 hr. Rec 20 mud

Time Visc. Wt. W L pH ADDITIVES — POUNDS

1200 # Gel

200 Limes

150 Viscal

water

CORING

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From To Hrs.

CIRCULATING & CONDITIONING

MUD TO TEST 12 2 2

PULLED (15 STDS)

& RAN BACK IN HOLE 2 3 1 1/2

CIRCULATING TO TEST 3 4 1 1/4

PULLING OUT TO RUN

PACKER 4 1 2 3/4

MAKING UP PACKER 7 8 1/2

From To Hrs.

Gassed Rig

Making up Packer

Running Packer in hole

Packer testing

Pulling Packer

From To Hrs.

Pulling Packer.

Laying & Breaking Packer down

Lay down 4 1/2" D.C.

Service Rig check B.O.P.S.

Service Kelly cock.

Running in hole.

Cleaning & Reaming tight hole.

70 32 - 73 62

Drilling

Driller

Archibald

Driller

J. Vanstone

Driller

Jim Kerby

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No.

FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.

CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

C. J. Bennett

Approved by

SUN NET 1A LSD D-7 SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor I.O.I. Type Rig NAT-80-B. Month 2 Day 24 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.													
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation									
	7363			9	Dolomite	7363			9"		7362	7363	0	9										
	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	5						5"						5'	75	2									
DRILLING STRING	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR					DRILLING STRING	COLLAR	5	7"			DRILLING STRING	COLLAR	5	7"	2 1/2		DRILLING STRING						
	DATA						DATA	10	6 1/4				DATA	10	6 1/4	4		15'8"						
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE
	38	EH-3	RAN	in to bottom	To clean out	bit	squeezed out of gauge		39	WTR							39	WTR	5'4" dm					
	Bit Serial No.	220349					Table R.P.M.		Bit Serial No.	1677						Table R.P.M.	Bit Serial No.	1677						
	Jet or Conventional -						Nozzle Size		Jet or Conventional -							Nozzle Size	Jet or Conventional -	CONV						Nozzle Size
SURVEYS	Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off								
SLUSH PUMP RECORD	HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size		HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	
No. 1							6 1/4																	
No. 2							6 3/4																	
	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
MUD RECORD	230	170	10.9			water.								D.S.T. #2 Johnston Testers.			985	154						water
														1/2 dual nipples.			1100	173						3000 gel.
														Unable to get packer below 850's										
														or bottom. Setting on bridge packer										

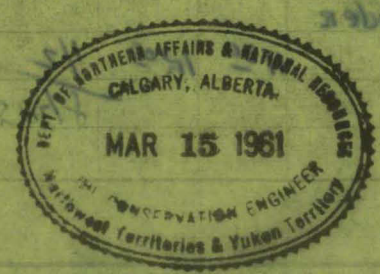
A photograph of a document with a circular stamp and handwritten notes. The stamp contains the text "AIRMAIL" and "RAM". Handwritten notes include "1130", "1200", "1/2", and "8/12".

CLASSES OF TIME BREAKDOWN								DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:			
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES ☒ NO ☐

Total Contract Timehrs. Total Company Timehrs. Toolpusher W. Bennett Approved by

[illegible]

Diff. 2m Kerby



Day 23 1961

Drille

Approved by

**DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY**

YES ☒ **NO** ☐

IMP. OIL. SUN. NET 112 LSD D-7 SEC. TWN. RGE. W. Contractor IMP. OIL Type Rig NAT. 90-B. Month 2 Day 22 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation																								
		7150	7179	29	9	LIME & SHALE		7179		7218	39	9"	Lime		7218		7227	9	9"	Lime																								
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.																		
		5"	68	2	1	889-73				5"		69	1	23	889-73				5"		69	1	14	889-73																				
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																						
COLLAR		8	7	2 7/8		DRILLING STRING		COLLAR		8	7	2 7/8		DRILLING STRING		COLLAR		8	7	2 7/8		DRILLING STRING																						
DATA		22	6 1/4	2 7/8		66		DATA		22	6 1/4	"		178		DATA		22	6 1/4	"		178																						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																	
		36	YH	3 45				40			36	YH	3 45				40-45			36	VH	3 45	6 00	13 1/4	7227	40-45	77																	
		Bit Serial No. 904781					Table R.P.M. 110					Bit Serial No. 904781					Table R.P.M. 100					Bit Serial No. 904781-92503					Table R.P.M. 100																	
		Jet or Conventional					Nozzle Size 1 1/16					Jet or Conventional					Nozzle Size 1 1/16					Jet or Conventional - CONU.					Nozzle Size 1 1/16																	
SURVEYS		Kind at Ft. Deg. off					Kind at Ft. Deg. off					Kind at Ft. Deg. off																																
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																									
		On Line	Circulating					On Line		Circulating				On Line		Circulating																												
		4		1450	18	90	6 1/4	8			1450	18	68	6 3/4				1450	18	68	6 3/4																							
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																							
		4:30	65				Water		8:00	118				2000# Hydrogel		4:30	142	11	6 1/4		100# Caustic																							
		5:30	156	10.8	6.1		LIME 400#		10:00	116	11.			200# Lime																														
		6:30	130				VISKAL 300#		12:00	125				100# Viskal																														
		7:30	124				CAUSTIC 100#		2:00	138				100# Caustic																														
							SHOVELED DITCH		3:30	136	11.			Water							3% oil																							
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																									
								400 gals. diesel fuel.																																				
TAIL OF OPERATIONS AND MARKS				From	To	Hrs.					From	To	Hrs.					From	To	Hrs.																								
		RUNNING IN HOLE		12	130	1 1/2	Drilling				8	4	8	Drilling				4:00	5 45	1 3/4																								
		CLEANING TO BOTTOM												Circ. before Totco				5 45	6:00	1/4																								
		FROM (9 STDS) OFF		130	3 45	2 1/4								Totco @ 7225 4 1/2				6:00	6:15	1/4																								
		BOTTOM												Polling out of hole tight				6:15																										
		DRILLING		3 45	4 15	1/2								hole 4200-7227.				9:30		3 1/4																								
		PUMPING - INDICATOR		4 15	4 30	1/4								Service Rig check B.O.Ps.				9:30	9 45	1/4																								
		DRILLING		4 30	8	3 1/2								Running D.C.				9 45	10 30	3/4																								
														Cut off 308' of D.Line				10 30	11 15	3/4																								
														Running in hole.				11 15	12:00	3/4																								
		Driller		C. E. Hall				Driller		J. Vanstone				Driller		Jim Kerby																												

CLASSES OF TIME BREAKDOWN
 NG UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No.
 NG: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 NG: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 YES NO

Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by

SUN. NETIA LSD. D-7 SEC.

TWN.

RGE.

W.

Contractor I.O.I.

Type Rig NAT 80-B.

Month 2.

Day 21 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																											
DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation																					
		7040	7074	34	9	SAND & LIME								7074	7125	51	9"	Lime sand.								7125	7150	25	9"	Lime & Sand.																					
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																				
		5"	67	2	15	889-73								5"	68	1	25	889-73								5"	68	1	down	889-73																					
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																		
		35	YHWG	3:45				35	40						35	YHWG	3:45				35							35	YHWG	3:45				35	110																
		Bit Serial No. 5036 Table R.P.M. 110										Bit Serial No. 5036 Table R.P.M. 100										Bit Serial No. 5036 Table R.P.M. 100																													
		Jet or Conventional										Jet or Conventional -										Jet or Conventional - CONN.																													
SURVEYS		Kind	at		Ft.		Deg. off						Kind		at		Ft.		Deg. off						Kind		at		Ft.		Deg. off																				
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size					SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																				
		On Line	Circulating											On Line	Circulating											On Line	Circulating																								
		4:14		1350	14	70	6 3/4							8	1:2	1450	14"	70	6 3/4							4	1:4	1450	14	70	6 3/4																				
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																		
		3:30	152				Water								8:30	115	10.9	7.2	12.5	900 Hydrogel								4:00	125				water																		
		4:30	140	10.9			LIME #400								10:30	120				600-125 250 Lime								5:30	121				800-gel.																		
		5:45	128		7.1		VISCAL #300								12:00	126	1990 Solid	300-74	150	Dakolite								7:00	122	11	7.00																				
		7:00	124				CAUSTIC #100								2:00	124	11	3700	19/51	40.23 17200 Sand 100" caustic								8:00	124	600-124	18/49	18.18	P. 3.6																		
							SHOVELLED DITCH								3:30	125	10/18	10/18	17.5	173.8 lime 356"													300-75 40.26 Gels 3-10/18 in 23																		
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.					CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																				
DETAIL OF OPERATIONS AND REMARKS		Pulling out										Drilling										Drilling																													
		SERVICING RIG																				To Top @ 7:50 4 3/4																													
		RUNNING IN HOLE																				Polling out of hole																													
		CLEANING OUT BRIDGE																				Service Riq. check B.O.P.S.																													
		DRILLING																				checked Kelly cock.																													
																						Running in hole																													
																						Tighten Brakes. checked																													
																						6'4" Drill collars.																													
Driller		Archibald										Driller										J. Vanstone										Driller										Jim Kerby									

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time hrs.

Total Company Time hrs.

Toolpusher

Approved by

DAILY DRILLING REPORT #32

LSD. D-7 SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor LOL Type Rig Lat 80-13 Month 2/20/64 Day 20 1964

1001 12 JAN 1950

HEADING UP & DRLG. OUT:		TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.	PREVENTER EQUIPMENT TODAY
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:				
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONSIDERATION HOLE:	LOST CIRC.:				
								MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher [Signature] Approved by

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CALGARY, ALBERTA
MAR 3 1961
OF CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

LSD. D-7 SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor L.O.G. Type Rig 21RT 8.0-B Month 2 Day 19 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation							
	6976	6932	56	9	LIME & SHALE		6932	6941	9	9"			6941	6945	4	9"	Lime & Sandstone							
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	5"	66		6	889.73		5"	66	1	27	889.73		5"	66	1	23	889-73							
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							
	32	O.W.C.	2 ¹⁵				30-40			32	O.W.C.	2 ¹⁵	9 ⁴⁵ A.M.	7 ¹²	6941	40M	65							
										33	V.H.													
	Bit Serial No. 24100						Table R.P.M. 110						Bit Serial No. 24100-93396						Table R.P.M. 100					
	Jet or Conventional -						Nozzle Size 1 1/16						Jet or Conventional - Conv.						Nozzle Size 1 1/16					
SURVEYS	Kind	at				Ft.	Deg.	off				Kind	at				Ft.	Deg.	off					
SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
No. 1 No. 2	On Line	Circulating					On Line	Circulating					On Line	Circulating										
	5 3/4		1400	18	90	6 1/4	2	6	1400	14	70	6 3/4	5	2	1350	14	65							
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				
	2 ³⁰	143	10.8	6.8		Water		8 ³⁰	124	10.8	7.7		700# Hydrogel		7 ³⁰	130	10.9	7	12.5	Mudlogel H.O. lime				
	4 ⁰⁰	140				Gel 700#		9 ⁴⁵	123	600-	105	12.5				9 ⁵⁰	127	600-	125		300 Viskal 100 Cons.			
	5 ³⁰	126				LIME 400#				300-	65		Inj 3-10% in 28.				300-	73						
	7 ⁰⁰	124	10.8			VISKAL 300#				400	21		PM. 17 P.S. 3.3. lime 3.5%				400	21		180 gals Mudlogel				
						CAUSTIC 100#							1.75% sand.							Jdo. 3. 25 PM. 19 P.S. 4 lime 4.5% 90 Bil				
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.							From	To	Hrs.						
	RUNNING IN HOLE						12	1	1	DRILLING						8	9 ⁴⁵	1 3/4	Running in hole + Tight hole					
	CLEANING OUT BRIDGES						1	2 ¹⁵	1 1/4	WORK ON ROTARY CLUTCH RELEASE						9 ⁴⁵	10	1/4	drilling 6280-6340 4 ⁰⁰					
	DRILLING						2 ¹⁵	8	5 3/4	TRIP OUT OF HOLE 627' STN						10			" " 6400 6460					
										FROM BOTTOM TIGHT HOLE							12 ⁴⁵	2 3/4	" " 6560 6591 6 ¹⁵ 2 1/4					
										SERVICE RIG CHECKED B.D.P.s						12 ⁴⁵	1	1/4	DRILLING 6 ¹⁵ 9 ⁰⁰ 2 3/4					
										RUN IN DRILL COLLARS						1	1 ⁴⁵	3/4	Pulling out of hole. 9 ⁰⁰ 10 ³⁰ 2 1/2					
										CHECKED & CUT 90' OFF DRILL LINE						1 ⁴⁵	2 ³⁰	3/4	Service Rig check B.O.P.s. 11 ³⁰ 11 ⁴⁵ 1 1/4					
										Run in hole to 6280						2 ³⁰	3 ⁴⁵	1 1/4	Running in hole 11 ⁴⁵ 12 ⁰⁰ 1/4					
										DRILLING BRIDGE TIGHT 6280-6310						3 ⁴⁵	4-	1/4						
	Driller Archibald						Driller J. Vanstone						Driller Jim Korbay											

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.		YES	NO
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.		YES	NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher U. Bennett Approved by _____

HOSE SERIAL No. 100
REEL SERIAL No. 100

[illegible]

Time	Location	Remarks
8:45 AM	Drilling	Work on Rotary Clutch Release
9:10 AM	Drilling	Trip out of hole last day
10:00 AM	Drilling	From Bottom Tight Hole
12:45 PM	Drilling	Service Rig Checked 1300 PM
1:45 PM	Drilling	Ruin Drill Collars
2:30 PM	Drilling	Checked CTD 20' off Drilling
3:30 PM	Drilling	

On line	Calculating	Pump Press	Pump Temp	Length of Pipe	Pressure Loss	Flow
2.04		14.00	1.4	1.8	1.0	1.0
						1.0

Time	VISC	WFL	WFL	ADHESIVE — POUNDS
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[illegible]

Ind. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847.

No.	Type	Bottom Pulled	Faces Pulled	Depth	M. Found	Dilled	Grained
28062		A	A				
240							

No.	Type	Bottom Pulled At	Fathom Pulled From	Depth Blotted M Found	Blotted Framed
320628		At	At	M Found	
320629		At	At	M Found	

[illegible]

No.	Type	Bottom At	Pulled A	Floors Pulled Run	Floors Pulled M. Pounds	Ditch Remained
33	H					N

Drill Number	OD	ID	Length	Indicator Weight of Total
1	1.00	0.875	1.00	1.00
2	1.00	0.875	1.00	1.00
3	1.00	0.875	1.00	1.00
4	1.00	0.875	1.00	1.00
5	1.00	0.875	1.00	1.00
6	1.00	0.875	1.00	1.00
7	1.00	0.875	1.00	1.00
8	1.00	0.875	1.00	1.00
9	1.00	0.875	1.00	1.00
10	1.00	0.875	1.00	1.00
11	1.00	0.875	1.00	1.00
12	1.00	0.875	1.00	1.00
13	1.00	0.875	1.00	1.00
14	1.00	0.875	1.00	1.00
15	1.00	0.875	1.00	1.00
16	1.00	0.875	1.00	1.00
17	1.00	0.875	1.00	1.00
18	1.00	0.875	1.00	1.00
19	1.00	0.875	1.00	1.00
20	1.00	0.875	1.00	1.00
21	1.00	0.875	1.00	1.00
22	1.00	0.875	1.00	1.00
23	1.00	0.875	1.00	1.00
24	1.00	0.875	1.00	1.00
25	1.00	0.875	1.00	1.00
26	1.00	0.875	1.00	1.00
27	1.00	0.875	1.00	1.00
28	1.00	0.875	1.00	1.00
29	1.00	0.875	1.00	1.00
30	1.00	0.875	1.00	1.00
31	1.00	0.875	1.00	1.00
32	1.00	0.875	1.00	1.00
33	1.00	0.875	1.00	1.00
34	1.00	0.875	1.00	1.00
35	1.00	0.875	1.00	1.00
36	1.00	0.875	1.00	1.00
37	1.00	0.875	1.00	1.00
38	1.00	0.875	1.00	1.00
39	1.00	0.875	1.00	1.00
40	1.00	0.875	1.00	1.00
41	1.00	0.875	1.00	1.00
42	1.00	0.875	1.00	1.00
43	1.00	0.875	1.00	1.00
44	1.00	0.875	1.00	1.00
45	1.00	0.875	1.00	1.00
46	1.00	0.875	1.00	1.00
47	1.00	0.875	1.00	1.00
48	1.00	0.875	1.00	1.00
49	1.00	0.875	1.00	1.00
50	1.00	0.875	1.00	1.00
51	1.00	0.875	1.00	1.00
52	1.00	0.875	1.00	1.00
53	1.00	0.875	1.00	1.00
54	1.00	0.875	1.00	1.00
55	1.00	0.875	1.00	1.00
56	1.00	0.875	1.00	1.00
57	1.00	0.875	1.00	1.00
58	1.00	0.875	1.00	1.00
59	1.00	0.875	1.00	1.00
60	1.00	0.875	1.00	1.00
61	1.00	0.875	1.00	1.00
62	1.00	0.875	1.00	1.00
63	1.00	0.875	1.00	1.00
64	1.00	0.875	1.00	1.00
65	1.00	0.875	1.00	1.00
66	1.00	0.875	1.00	1.00
67	1.00	0.875	1.00	1.00
68	1.00	0.875	1.00	1.00
69	1.00	0.875	1.00	1.00
70	1.00	0.875	1.00	1.00
71	1.00	0.875	1.00	1.00
72	1.00	0.875	1.00	1.00
73				

Drill Number	OD	ID	Length	Indicator Weight of Total
1	1.00	0.875	1.00	1.00
2	1.00	0.875	1.00	1.00
3	1.00	0.875	1.00	1.00
4	1.00	0.875	1.00	1.00
5	1.00	0.875	1.00	1.00
6	1.00	0.875	1.00	1.00
7	1.00	0.875	1.00	1.00
8	1.00	0.875	1.00	1.00
9	1.00	0.875	1.00	1.00
10	1.00	0.875	1.00	1.00
11	1.00	0.875	1.00	1.00
12	1.00	0.875	1.00	1.00
13	1.00	0.875	1.00	1.00
14	1.00	0.875	1.00	1.00
15	1.00	0.875	1.00	1.00
16	1.00	0.875	1.00	1.00
17	1.00	0.875	1.00	1.00
18	1.00	0.875	1.00	1.00
19	1.00	0.875	1.00	1.00
20	1.00	0.875	1.00	1.00
21	1.00	0.875	1.00	1.00
22	1.00	0.875	1.00	1.00
23	1.00	0.875	1.00	1.00
24	1.00	0.875	1.00	1.00
25	1.00	0.875	1.00	1.00
26	1.00	0.875	1.00	1.00
27	1.00	0.875	1.00	1.00
28	1.00	0.875	1.00	1.00
29	1.00	0.875	1.00	1.00
30	1.00	0.875	1.00	1.00
31	1.00	0.875	1.00	1.00
32	1.00	0.875	1.00	1.00
33	1.00	0.875	1.00	1.00
34	1.00	0.875	1.00	1.00
35	1.00	0.875	1.00	1.00
36	1.00	0.875	1.00	1.00
37	1.00	0.875	1.00	1.00
38	1.00	0.875	1.00	1.00
39	1.00	0.875	1.00	1.00
40	1.00	0.875	1.00	1.00
41	1.00	0.875	1.00	1.00
42	1.00	0.875	1.00	1.00
43	1.00	0.875	1.00	1.00
44	1.00	0.875	1.00	1.00
45	1.00	0.875	1.00	1.00
46	1.00	0.875	1.00	1.00
47	1.00	0.875	1.00	1.00
48	1.00	0.875	1.00	1.00
49	1.00	0.875	1.00	1.00
50	1.00	0.875	1.00	1.00
51	1.00	0.875	1.00	1.00
52	1.00	0.875	1.00	1.00
53	1.00	0.875	1.00	1.00
54	1.00	0.875	1.00	1.00
55	1.00	0.875	1.00	1.00
56	1.00	0.875	1.00	1.00
57	1.00	0.875	1.00	1.00
58	1.00	0.875	1.00	1.00
59	1.00	0.875	1.00	1.00
60	1.00	0.875	1.00	1.00
61	1.00	0.875	1.00	1.00
62	1.00	0.875	1.00	1.00
63	1.00	0.875	1.00	1.00
64	1.00	0.875	1.00	1.00
65	1.00	0.875	1.00	1.00
66	1.00	0.875	1.00	1.00
67	1.00	0.875	1.00	1.00
68	1.00	0.875	1.00	1.00
69	1.00	0.875	1.00	1.00
70	1.00	0.875	1.00	1.00
71	1.00	0.875	1.00	1.00
72	1.00	0.875	1.00	1.00
73				

Line	Number	ID	Length	Indicator Weight of Total
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
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13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
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19	19	19	19	19
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21	21	21	21	21
22	22	22	22	22
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33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
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39	39	39	39	39
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41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
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72	72	72	72	72
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84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87

[illegible]

1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299</
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1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299</
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Form	To	How Made	How Size	Formation
1933	1934	2	20	

From	To	Hole Made	Hole Size	Formation
100	101			
102	103			
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Form 1000 (Rev. 6-59)

WAT 80-B
Type Rig

CONTRACTOR
102

RGE
TWN

LSD D-7 SEC
D-7

DAILY DRILLING REPORT - 81
Day 19 Month 2 Year 1961

IMPERIAL OIL LIMITED

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 30

Sump. SUN-NET 14 LSD. D-7 SEC. TWN. RGE. W. Contractor I.O.I. Type Rig NAT. 80-B. Month 2 Day 18 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																									
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																	
		6755	6803	48	9	LIME & SHALE												6803	6850	47	9"	Shale												6850	6876	26	9"	Lime & shale.																	
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																				
		5	64	2	12	889-73												5	65	1	26	889-73												5	65	1	down	889-73																	
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																	
COLLAR		8	7	2 7/8		DRILLING STRING										COLLAR		8	7	2 7/8		DRILLING STRING										COLLAR		8	7	2 7/8		DRILLING STRING																	
DATA		22	6 1/4	2 7/8		15-9										DATA		22	6 1/4	"		15-9										DATA		22	6 1/4	"		15-9																	
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																
		31	M4L	3 45				30										31	M4L	3 45					30-40										31	M4L	3 45	7 15	14 1/2	6876	40	121													
		Bit Serial No. 493100										Table R.P.M. 130							Bit Serial No. 493100										Table R.P.M. 120							Bit Serial No. 493100 - 24100										Table R.P.M. 120									
		Jet or Conventional -										Nozzle Size 1 1/16							Jet or Conventional -										Nozzle Size 1 1/16							Jet or Conventional - COND.										Nozzle Size 1 1/16									
SURVEYS		Kind	at			Ft.			Deg. off			Kind		at			Ft.			Deg. off			Kind		at			Ft.			Deg. off																								
SLUSH PUMP RECORD		HOURS					Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS					Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS					Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																											
No. 1		On Line	Circulating								On Line					Circulating								On Line					Circulating																										
No. 2		6				1400	14	70	6 3/4		1 1/2											1400					14	70	6 3/4																										
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS										Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																
		430	130	109	6.8	Water + Gel 500#												830	124	10.9	7.7	12.5	1400# Hydrogel												400	137				water															
		530	127			LIME 400#												1100	138	600-128	11.135		200# Lime												128	11	7.8	12.5	600-128	400 gel.															
		700	124			VISKAL 300#												1000	123	300-126	10.317		100# Viskal																																
						CAUSTIC SODA 100#												300	125	400-121			50 caustic																																
		shoveled ditch water 1800 gal																						shoveled ditch water 1800 gal																						3.32 line 960 30 min.									
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																		
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.						From					To	Hrs.						From					To	Hrs.																						
		RUNNING IN HOLE					12	2	2						Drilling to check hole.					8	9.15	1 1/4						Drilling					400	7 15	3 1/4																				
		CLEANING OUT BRIDGES					2	3 45	1 3/4						Pulled 7' to tight hole from.					9 15								CIRC. before Totco					7 15	7 30	1/4																				
		DRILLING					3 45	8	4 1/4						6445-6355 Run to Bottom.						10	3/4						Totco Co. 6876. 4 1/4					7 30	7 45	1/4																				
															Circulated Bit at Bottom.					10	10.15	1/4						Pulling out of hole.					7 45	10 30	2 3/4																				
															Drilling					10 15	4	5 3/4						Service Rig. check B.O.P's.					10 30																						
																												" Kelly cock.						10 45	1/4																				
																												Running in hole.					10 45	12 00	1 1/4																				

Sub-NETLO LSD. D-7 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80-3 Month 2 Day 17 19 61

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																																																																																																																																																																																																																																																																																															
DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation																																																																																																																																																																																																																																																																																																									
		6622	6642	20	9	LIME & SHALE								6642	6712	70	9"	Lime								6712	6755	43	9"	Lime																																																																																																																																																																																																																																																																																																									
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																																																																																																																																																																																																																																																																																								
		5"	63		22	889.73								5"	63	2	13	889.73								5"	64		down	889.73																																																																																																																																																																																																																																																																																																									
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																																																																																																																																																																																																																																																																																									
COLLAR		8	7	2 7/8		DRILLING STRING						COLLAR		8	7	2 7/8		DRILLING STRING						COLLAR		8	7"	2 7/8		DRILLING STRING																																																																																																																																																																																																																																																																																																									
DATA		22	6 1/4	2 7/8		159						DATA		22	6 1/4	"		159						DATA		22	6 1/4	"		159																																																																																																																																																																																																																																																																																																									
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																																																																																																																																																																																																																																																																																						
		30	YM	6 AM				40						30	YM	6 AM					35-40						30	YM	6 AM				40m	133																																																																																																																																																																																																																																																																																																					
		Bit Serial No. 705792										Table R.P.M. 100												Bit Serial No. 705792										Table R.P.M. 100												Bit Serial No. 705792 - 493100										Table R.P.M. 100																																																																																																																																																																																																																																																																															
		Jet or Conventional										Nozzle Size 1 1/16												Jet or Conventional										Nozzle Size 1 1/16												Jet or Conventional - CONU CONU										Nozzle Size 1 1/16																																																																																																																																																																																																																																																																															
SURVEYS		Kind	TOTCO		at	Ft.	4 3/4		Deg. off													SURVEYS		Kind	TOTCO		at	Ft.	4 3/4		Deg. off													SURVEYS		Kind	TOTCO		at	Ft.	4 3/4		Deg. off																																																																																																																																																																																																																																																																																		
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																																																																																																																																																																																																																																																																																								
		On Line	Circulating																			On Line	Circulating																			On Line	Circulating																																																																																																																																																																																																																																																																																												
		4		1250	18	70	6 1/4															8		1400	18"	70	6 3/4															4 1/2		1400	18"	70	6 3/4																																																																																																																																																																																																																																																																																								
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																																																																																																																																																																																																																																																																																						
		6:45	153				Water								8:30	110	10.9	8	12.5	1300 Hydrogel								4:00	147	7.4		water																																																																																																																																																																																																																																																																																																							
		7:30	147				Gel 4004								9:15	120	600-112	3	400	Lime								5:30	144																																																																																																																																																																																																																																																																																																										
															11:30	133	310-68	10	300	Viskal								7:00	138																																																																																																																																																																																																																																																																																																										
															1:30	127	4P.24	3.53	100	caustic								8:00	134	600-118	12.5	18.5	3.3	3.92	Lime																																																																																																																																																																																																																																																																																																				
															3:00	132	4P.17	7.34		Water																																																																																																																																																																																																																																																																																																																			
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																																																																																																																																																																																																																																																																								
DETAIL OF OPERATIONS AND REMARKS		PULLING OUT										SERVICING RIG										RUNNING IN D.C.										CUTTING D. LINE (60')										RUNNING IN HOLE										CLEANING TO BOTTOM										DRILLING										DETAIL OF OPERATIONS AND REMARKS		PULLING OUT										SERVICING RIG										RUNNING IN D.C.										CUTTING D. LINE (60')										RUNNING IN HOLE										CLEANING TO BOTTOM										DRILLING										DETAIL OF OPERATIONS AND REMARKS		PULLING OUT										SERVICING RIG										RUNNING IN D.C.										CUTTING D. LINE (60')										RUNNING IN HOLE										CLEANING TO BOTTOM										DRILLING																																																																																																																									
		12										1										1 1/4										2										2 1/4										2 1/4										2										6										8												8										4										8 hrs												4:00										8:15										4 1/4												8:15										8:30										1/4												8:30										8:45										1/4												8:45										11:30										2 3/4												11:30										11:45										1/4												11:45										12:00										1/4												8 hrs									
Driller		Cochran										Driller										J. Vanstone										Driller										Sim Kerby																																																																																																																																																																																																																																																																																													

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher

H. Bennett

Approved by _____

LSD. D. 7 SEC.

TWN.

RGE.

W.

Contractor

Type Rig

Month

Day

1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																	
	6516	6525	9	9	lime & shale	6525	6581	56	9"	lime	6581	6622	41	9"	lime & shale																	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.														
	5	61	2	19	889-73		5"	62	1	24	889-73		5"	62	2	13	889-73															
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL														
	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING	COLLAR	8	7	2 7/8		DRILLING STRING														
	DATA	22	6 1/4	2 7/8		158	66-M.	DATA	22	6 1/4	"		158	66M.	DATA	22	6 1/4	"		159.	66M											
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE								
	29	YM	7 AM				30		29	YM	7 AM				30-40		29	YM	7 AM	9:30 PM	14 1/4	6622	40	106								
	Bit Serial No.	006461				Table R.P.M.	80-100	Bit Serial No.	006461				Table R.P.M.	100	Bit Serial No.	006461				Table R.P.M.	80-100											
	Jet or Conventional	✓				Nozzle Size	"1/16	Jet or Conventional	-				Nozzle Size	"1/16	Jet or Conventional	- CONU				Nozzle Size	"1/16											
SURVEYS	Kind	at				Ft.	Deg. off	Kind	at				Ft.	Deg. off	Kind	Toteco				at	6620	Ft.	4 3/4	Deg. off								
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size														
	On Line	Circulating					On Line	Circulating					On Line	Circulating																		
							8	1 1/2																								
SLUSH PUMP RECORD	No. 1	1250				14	65	6 3/4	No. 2	1450				14	70	6 3/4	No. 1	1450				14	70	6 3/4	No. 2	1450				14	70	6 3/4
	Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS											
	7:45	150					Water Gel 600 #	8:30	130	11.	7.2	12.5	1800# Hydrogel	4:00	126						1200# Sel.											
MUD RECORD	9:45		128				400# lime	11:55		125				600-124 P.M. 300# Viskal	5:30		134				None											
	2:00		126	11.	300# 75 P.M. 100# Caustic	3:30		127					Water	6:30		138				60-130 P.M. 17.5 P.P. 3.6												
	3:30		127												7:45		150	11	600	12.5	300-80											
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.														
DETAIL OF OPERATIONS AND REMARKS	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.																				
	PULLING OUT		12	2	2	Drilling		8	2:30	6 1/2	Drilling		4:00	9:30	5 1/2																	
	SERVICING RIG		2	2:10	1/4	Pulled up 60' on Connections		2:30			Circ. before Toteco		9:30	9:45	1/4																	
DETAIL OF OPERATIONS AND REMARKS	REPAIRING - CHAIN		2:10	2:20	1/4	Circ. at BOTTOM, WORK AT HEAD.					Toteco @ 6620		9:45	10:00	1/4																	
	REPAIRING WATER					Air Release Valve			2:45	1/4	Pulling out of hole		10:00	12:00	2																	
	BRAKE		2:30	3:15	3/4	Drilling		2:45	4	1 1/4																						
DETAIL OF OPERATIONS AND REMARKS	RUNNING IN HOLE		3:15	5:30	2 1/4																											
	CLEANING OUT (6)		5:30	7	1 1/2																											
	BRIDGES																															
DETAIL OF OPERATIONS AND REMARKS	DRILLING		7	8	1					8 hrs.																						
	Driller		C. Schubert				Driller		J. Vanstone				Driller		Jim Kerby																	

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher

Approved by

I.O.L. S.N. NETLA LSD. D-7 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80-B. Month 2 Day 15 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation																								
		6421	6464	43	9	LIME & SHALE		6464		6477	13	9"	Lime & shale		6477		6516	39	9"	Lime & shale.																								
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																							
		5"	62	2	27	746.48		5"		61	-	6	889-73	Float Shell & Totco Plate	5"		61	2	28	889-73	Float Shell & Totco Plate																							
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																						
COLLAR		3	7	2 7/8		DRILLING STRING		COLLAR		8	7	2 7/8		DRILLING STRING		COLLAR		8	7	2 7/8		DRILLING STRING																						
DATA		22	6 1/4	2 7/8		154		DATA		22	6 1/4	"		889-73		DATA		22	6 1/4	"		158																						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																	
		27	OW	11:45	6:30	9 1/4	6464	30	65			28	OW	2:15	PM			30M			28	OW	2:15	PM	9 1/2	6516	30M	52																
		Bit Serial No. 18767					Table R.P.M. 80					Bit Serial No. 90043					Table R.P.M. 85					Bit Serial No. 90043					Table R.P.M. 85																	
		Jet or Conventional -					Nozzle Size 1 1/16					Jet or Conventional -					Nozzle Size 1 1/16					Jet or Conventional -					Nozzle Size 1 1/16																	
SURVEYS		Kind Totco at 6464 Ft. 43/4 Deg. off					Kind					Ft. Deg. off					Kind Totco at 6516 Ft. 5° Deg. off					Kind					Ft. Deg. off																	
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																			
No. 1		On Line	Circulating					On Line		Circulating				On Line		Circulating				On Line		Circulating																						
No. 2		672		1300	18	40	6 1/2	334		150	1400	18	70	6 3/4	73		4	1150	14	65	6 3/4	73		4																				
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																
		1:00	99	10.9			LIME 500#		2:00	144	8	12.5		450# Lime		4:30	129				2000 lbs gel.		7:15	122	10.9	7.8	12.5	600-109 water																
		2:45	124	11.			VISCAL 250#		3:30	128	10.8	100-130		300# Viscal		8:45	126				Impd 4		10:00	134				Impd 4																
		4:00	136	11	7.2		CAUSTIC 150#		9:00	108	36	30	76	100# Caustic		10:00	134				Impd 4		10:00	134				Impd 4																
		5:30	141				GEL 2300#		10:00	16.5	14.8	42		500# Hydrogel		10:00	134				Impd 4		10:00	134				Impd 4																
		Shoulder ditch Water							Shoulder ditch Water							Shoulder ditch Water							Shoulder ditch Water																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																			
DETAIL OF OPERATIONS AND REMARKS		From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.	From		To	Hrs.																			
		12		6:30	6 1/2	TRIP OUT OF hole		8		9:15	1 1/4	DRILLING		4:00		10:45	6 3/4	TRIP OUT OF hole		8		9:15	1 1/4	DRILLING																				
		6:30		6:45	1/4	Checked BOPs WORK ON		9:15		1		Checked BOPs WORK ON		10:45		11:00	1/4	Checked BOPs WORK ON		9:15		1	Checked BOPs WORK ON																					
		6:45		8:10	1 1/4	Remote Hydraulic CONTROL						Remote Hydraulic CONTROL		11:00		12:00	1	Remote Hydraulic CONTROL					Remote Hydraulic CONTROL																					
						Service Rig						Service Rig						Service Rig					Service Rig																					
						Picked up 5-7" DRILL COLLARS		9:45		10:15	3/4	Picked up 5-7" DRILL COLLARS		9:45		10:15	3/4	Picked up 5-7" DRILL COLLARS					Picked up 5-7" DRILL COLLARS																					
						TRIP IN hole to 6390		10:15		12:15	2	TRIP IN hole to 6390		10:15		12:15	2	TRIP IN hole to 6390					TRIP IN hole to 6390																					
						CLEANING FROM 6390-6464		12:15		2:15	2	CLEANING FROM 6390-6464		12:15		2:15	2	CLEANING FROM 6390-6464					CLEANING FROM 6390-6464																					
						Drilling		2:15		4	1 3/4	Drilling		2:15		4	1 3/4	Drilling					Drilling																					
Driller		Archibald					Driller					J. Vanstone					Driller					R. J. J.																						

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. Check BOP DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. Check BOP YES ☒ NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: Check BOP

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher G. J. J. Approved by _____

I.O.L. SUN NETLA LSD 07 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80 B. Month 2 Day 14 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																															
DEPTH		From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation																													
		6382	6399	17	9"	LIME-SHALE-SILT									6399	6417	18	9	LIME-SHALE-SILT									6417	6421	4	9"	Hole-Lime																													
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																												
		5"	61	2	3	746-48									5"	62	-	15	746-48									5"	62	-	11	746-48																													
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL									DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																										
		COLLAR	3	7	2 7/8		DRILLING STRING									COLLAR	3	7	2 7/8		DRILLING STRING									COLLAR	3	7	2 7/8		DRILLING STRING																										
		DATA	22	6 1/4	2 7/8		152 M									DATA	22	6 1/4	2 7/8		154									DATA	22	6 1/4	11		154																										
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																										
		26	M4L	10:25	2:20	16 3/4	6399	45 M	89							27	OW	11:48				45							27	OW																															
		27	OW																																																										
		Bit Serial No. 493099-18767										Table R.P.M. 90										Bit Serial No. 18767										Table R.P.M. 80										Bit Serial No. 18767										Table R.P.M. 80									
		Jet or Conventional - CON CON										Nozzle Size 1 1/16										Jet or Conventional -										Nozzle Size 1 1/16										Jet or Conventional - CON.										Nozzle Size 1 1/16									
SURVEYS		Kind	TOTCO at 6390			Ft.	4 3/4			Deg. off						Kind				Ft.				Deg. off						Kind				Ft.				Deg. off																							
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																										
		On Line	Circulating													On Line	Circulating													On Line	Circulating																														
		3	5	1300	18"	68	6 1/4"									1	4 3/4	1000	18	65	6 1/4"																																								
		3	5	1300	14"	68	6 3/4"									4 3/4	1300	14	65	6 3/4"																																									
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																										
		12:30	92	10.9	8.2		SHOE L DITCH									10:30	96				Mud 400 gel																																								
		2:00	87				HYDROGEL-300#									12:15	98																																												
																2	100	10.9																																											
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																										
DETAIL OF OPERATIONS AND REMARKS																																																													
		DRILLING															RUNNING IN HOLE (8 STDS)															Installed New Kelly Hose																													
		TOTCO @ 6390 - 4 3/4															CLEANING OUT BRIDGES															Run into 5670																													
		TRIP OUT OF HOLE															8 REAMING (20') TO BOTTOM 9 11															Drilled out Continuous Bridge 5670 - 5790																													
		SERVICE RIG CHECKED BOP																														Run into 6330 Layed down Singles																													
		RUNNING IN HOLE															PULLED (15 STDS) KELLEY															CLEANING OUT TO BOTTOM 6417																													
		TO 5660															HOSE LEAKING -															Drilling																													
		DRILLING OUT															INSTALLING NEW HOSE																																												
		BRIDGE @ 5660'																																																											
		8 HRS																																																											
		Driller L. A. Bishop															Driller Grechwald															Driller J. Vanstone																													

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

41

L. O. Davis

3rd Tour From: **4:00** p.m. To: **12:00** p.m.

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher D. E. Meers Approved by _____

SUN-NEVA LTD. 27 SEC. 27 TWN. RGE. W. CONTRACTOR I.O.L. Type Rig NAT. 80 B Month 2 Day 13 1961									
DAILY DRILLING REPORT #22									
1st Tour From: 12:00 Midnight To: 8:00 a.m.									
2nd Tour From: 8:00 a.m. To: 4:00 p.m.									
3rd Tour From: 4:00 p.m. To: 12:00 p.m.									
DEPTH DRILLING STRING RECORD SURVEYS SLUSH PUMP RECORD MUD RECORD CORING DETAIL OF OPERATIONS AND REMARKS									
2" 60 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100									



Approved by: [Signature] Date: [Blank] Total Contract Time: [Blank] Hours

REMARKS: [Blank]

DETAIL OF OPERATIONS AND REMARKS: [Blank]

CORING: [Blank]

MUD RECORD: [Blank]

SLUSH PUMP RECORD: [Blank]

SURVEYS: [Blank]

RECORD: [Blank]

DRILLING STRING: [Blank]

DEPTH: [Blank]

SUN. NETLA LSD. D7 SEC. TWN. RGE. W. Contractor CO-TOOLS Type Rig NAT. 80 B Month 2 Day 12 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																	
DEPTH		From	To	Hole Made	Hole Size	Formation		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	FORMATION		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	FORMATION		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	FORMATION														
6148		6224	76	9"	SHALE-SILT		6224		6271	49	9	SILT & SHALE		6271		6291	20	9"	SILT & SHALE		6271		6291	20	9"	SILT & SHALE		6271		6291	20	9"	SILT & SHALE														
5"		60	—	26	746-48		TOTO PLATE		5"		60	1	9	746-48		—		5"		60	2	20	746-48		—		5"		60	2	20	746-48		—													
DRILLING STRING		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								
COLLAR		3	7	2 7/8	—		DRILLING STRING		COLLAR		3	7	2 7/8	—		DRILLING STRING		COLLAR		3	7	2 7/8	—		DRILLING STRING		COLLAR		3	7	2 7/8	—		DRILLING STRING		COLLAR		3	7	2 7/8	—						
DATA		22	6 1/4	2 7/8	134 M		54 M		DATA		22	6 1/4	2 7/8	134		54		DATA		22	6 1/4	"	135 M		54		DATA		22	6 1/4	"	135 M		54		DATA		22	6 1/4	"	135 M		54				
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		
24		SG	9:15					35 M			24		SG	9:15	12:15	15 1/4	6271	35-45	143		25		OWV	7:30					30-35																		
Bit Serial No.		479435				Table R.P.M.				120				Bit Serial No.		479435 - 21921				Table R.P.M.				115				Bit Serial No.		21921				Table R.P.M.				115									
Jet or Conventional		CON				Nozzle Size				1 1/16				Jet or Conventional		—				Nozzle Size				1 1/16				Jet or Conventional		—				Nozzle Size				1 1/16									
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off								
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
On Line		Circulating						On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating							
No. 1		2			18"		6 1/4	No. 1		4 1/2			1250	No. 1		18			6 1/4	No. 1		6			1300	No. 1		18			6 1/4	No. 1		6			1300	No. 1		18			6 1/4				
No. 2		8			14"	66	6 3/4	No. 2		4 1/2			1250	No. 2		14		65	6 3/4	No. 2		6			1300	No. 2		14		66	6 3/4	No. 2		6			1300	No. 2		14		66	6 3/4				
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					
12:15		122		100.90	12.5		WATER - SHOCK DITCH		8:45		153	109	7.9	12.5	Water +		8:30		147	10.8	12.5	500# Hydrogel		9:15		126		7.8	12.5	200# Lime		11:30		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal	
2:00		125	10.8	30.56			HYDROGEL - 1200#		11:00		148	90.45	50	30.19	LIME 200#		9:15		126		7.8	200# Lime		11:30		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal	
4:30		170	4.22	7.8			LIME - 300#		12:12		145	10.45	10.43	12.5	VISKAL 150#		11:30		126		7.8	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal	
6:30		162	9.45	4.45			VISKAL - 150#		12:12		145	10.45	10.43	12.5	CAUSTIC 50#		11:30		126		7.8	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal	
6:30		162	9.45	4.45			CAUSTIC - 50#		12:12		145	10.45	10.43	12.5	CAUSTIC 50#		11:30		126		7.8	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal		9:15		126		7.8	12.5	200# Viskal	
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				
1.75		1.75	1.75	1.75	1.75	1.75	1.75	1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75		1.75							
DETAIL OF OPERATIONS AND REMARKS		DRILLING		12		8		5 HRS		DRILLING		8		12		4 1/2		TRIP IN hole Drilled out		4		6		1		BRIDGES @ 5650 + 5880		6		7.30		8 1/2		DRILLING		7.30		12		4 1/2							
TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271		TOTO @ 6271							
PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT		PULLING OUT									
SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG		SERVICING RIG									
B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.		B.O. ps.											
Driller		D. A. Bishop		D. A. Bishop		D. A. Bishop		D. A. Bishop		Driller		C. H. Held		C. H. Held		C. H. Held		C. H. Held		Driller		J. Vanstone		J. Vanstone		J. Vanstone		J. Vanstone		J. Vanstone		J. Vanstone		J. Vanstone		J. Vanstone											

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. Checked
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. Kelly BOP.
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

Total Contract Time hrs. Total Company Time hrs. Toolpusher C. A. Reas Approved by

Total Contract Timehrs. Total Company Timehrs. Toolpusher D. L. Hearn Approved by _____

SUN-NETRA LSD 27 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 803 Month 2 Day 10 19 61

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation									
		5881	5947	66	9"	SHALE-SILT						5947	6003	56	9	SILT & SHALE						6003	6060	57	9"	Silt Shale									
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.										
		5"	56	2	DOWN	746.48	—			5"		57	1	5	746.48	—			5"		58	—	8	746.48	—										
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL			DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										
		COLLAR	3	7	2 7/8		DRILLING STRING			COLLAR			3	7	2 7/8		DRILLING STRING			COLLAR			3	7	2 7/8		DRILLING STRING								
		DATA	2.2	6 1/4	2 3/8		142M			DATA			2.2	6 1/4	"		142			DATA			2.2	6 1/4	"		142M								
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						
		21	SH	1:23	6:30	17 1/4	5947	40M	178				22	OSC 16 11 1/2					40-30					22	OSC 16 11 1/2						11 1/2	6060	38M	113	
		Bit Serial No. 419716								Table R.P.M. 120								Bit Serial No. 89064								Table R.P.M. 115									
		Jet or Conventional - CON.								Nozzle Size 1 1/16								Jet or Conventional -								Nozzle Size 1 1/16									
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off				
		TOTCO	5940		MIS RUN				TOTCO		6055						TOTCO		6055						TOTCO		6055								
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
		On Line	Circulating					On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating							
		6 3/4	1 1/4	1150	18"	68	6 3/4"	4 1/4			1200	18	65	6 1/4"	7		1 1/2	1150	18	66	6 3/4					6 3/4									
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				
		12:15	112	10.7	8.4		WATER		1:00		157	10.7	7.		Water LIME 600#		4:30		126	10.7	8.4		1600# Hydrogel		6:30		115	10.7	8.4		1500# Viskal				
		2:00	110				SHOVEL DITCH		2:30		203				Vis KAL 300#		8:30		105	10.7	10.9		60-100 3/4 1/2		10:00		140	10.7	10.9		300-400 3/4 1/2				
		4:00	137	10.7			MILGEL-2000 #		3:45		2.38				DAKOLITE 150#		10:00		140	10.7	10.9		300-400 3/4 1/2		10:00		140	10.7	10.9		300-400 3/4 1/2				
		5:30	185												Gel 1000 #		10:00		140	10.7	10.9		300-400 3/4 1/2		10:00		140	10.7	10.9		300-400 3/4 1/2				
															DUMPED Ditch																				
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
DETAIL OF OPERATIONS AND REMARKS		DRILLING		From	To	Hrs.	PULLING OUT		From		To	Hrs.	DRILLING		From	To	Hrs.	PULLING OUT		From		To	Hrs.	DRILLING		From	To	Hrs.	PULLING OUT		From		To	Hrs.	
		TOTCO @ 5940'		12	6:30	6 1/2	SERVICING RIG		8		8 45	3/4	Circulated Before TOTCO		4	10:45	6 3/4	B.O.P.		8 45		9 15	1/2	TOTCO @ 6055		10:45	11	1/4	TRIP OUT OF hole		11		11:15	1/4	
		PULLING OUT OF HOLE		6:45	8	1 1/4	RUNNING IN HOLE		8 45		9 15	1/2	TRIP OUT OF hole		11:15	12	3/4	BRIDGE																	
							DRILLING OUT ONE											BRIDGE																	
							BRIDGE											BRIDGE																	
							DRILLING											DRILLING																	
									</																										

101

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CALGARY, ALBERTA
FEB 20 1961
OIL CONSERVATION - ENGINEER
Northwest Territories & Yukon Territory

SW-NET-A LSD. 27 SEC. TWN. RGE. W. Contractor Co-TOOLS Type Rig NAT. 80B Month 2 Day 9 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation										DEPTH		From	To	Hole Made	Hole Size	Formation																											
		5750	5769	19	9"													5769	5800	31	9	SHALE												5800	5881	81	9"	Shale																											
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																		
		5"	55	—	29	746.48							5"		55	1	28	746.48							5"		56	—	5	746.48																																			
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL										DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																											
COLLAR		3	7	2 3/8		DRILLING STRING										COLLAR		3	7	2 3/8		DRILLING STRING										COLLAR		3	7			DRILLING STRING																											
DATA		22	6 1/4	2 3/8		140M										DATA		22	6 1/4	..		140										DATA		22	6 1/4			140M.																											
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE				No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																
		20	OSCIG	8 AM	2 AM	18	5769	40M	184					21		S4	1 1/2				35.20					21		S4	1 1/2 pm				37-40																																
		21	S4																																																														
		Bit Serial No. 28227-419716										Table R.P.M. 115												Bit Serial No. 419716										Table R.P.M. 115												Bit Serial No. 419716										Table R.P.M. 115									
		Jet or Conventional - CON - CON										Nozzle Size 1 1/16 - 1 1/16												Jet or Conventional -										Nozzle Size 1 1/16												Jet or Conventional -										Nozzle Size 1 1/16									
SURVEYS		Kind	TOTCO		at	5760	Ft.	3 3/4	Deg. off				Kind		at		Ft.	Deg. off						Kind		at		Ft.	Deg. off																																				
SLUSH PUMP RECORD		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size																																			
		On Line	Circulating									On Line	Circulating									On Line	Circulating																																										
		3 1/2	4 1/2		1100	18"	64	6 1/4"				2 1/2	2 3/4		8.50	18	6 1/4"				8	2 1/2		1150	18	68	6 1/4"																																						
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																																						
		12:15	83	10.7	10.6		WATER				10:15		90	10.8	10.8		LIME # 500				4:30		94	10.8	10.8	53	2800 Hydrogel																																						
		2:00	80								12:00		110	10.8	10.8		VISCAL # 200				6:30		86	10.8	10.8	53	1500 Disinfect																																						
											1:00		140	10.7	10.7		CAUSTIC # 100				8:00		112	10.6	8.4	12.5	1500 Dakolite																																						
											2:30		180	9.0	5.45	19.26	GEL # 3500				9:30		104		9.0	4.15	10.0	1000 Viscal																																					
											3:45		210	10.8	18.8		Water + Dumped Ditch				11:30		106	10.7	10.7	15.5	500 Caustic																																						
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																						
DETAIL OF OPERATIONS AND MARKS				From	To	Hrs.					From		To	Hrs.							From		To	Hrs.																																									
		DRILLING		12	2	2					CLEANING BRIDGES											Drilling		4	6.15	2 1/4																																							
		CIRCULATING BEFORE PULLING		2	2.15	1/4					FROM 5000 - 5768		8	1.15	5 1/4							Pulled one std. + Connection		6.15	6.30	1/4																																							
		TOTCO @ 5760 - 3 3/4		2.15	2.30	1/4					DRILLING		1.15	4	2 3/4							Drilling		6.30	12	5 1/2																																							
		PULLED OUT OF HOLE		2.30	4.45	2 1/4																																																											
		SERVICE RIG CHECKED BOP'S		4.45	5	1/4																																																											
		RUNNING IN HOLE		5																																																													
		TO 4900'			6.45	1 3/4																																																											
		DRILLING OUT BRIDGES		6.45																																																													
		TO 5000'			8	1 1/4																																																											
		Driller: R. A. Bishop				8 HRS					Driller: Archibald												Driller: Vanstone																																										

CLASSES OF TIME BREAKDOWN
 LADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No.
 FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No.
 MINING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher L. A. Bishop Approved by

28222-41910	Table R.F.W. 115	41910	Table R.F.W. 115	41910	Table R.F.W. 115
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[illegible]

From	To	He	From	To	He	From	To	He	From	To	He	From	To	He	From	To	He	From	To	He
11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31

297.06 RIG. CHECKED BORIS Y. 10

1-14
10 4400
TRAILING OUT BRIDGE 1/14
NORTHERN AFFAIRS & NATIONAL

RECEIVED
FEB 15 1961
NO. 10
MAIL ROOM



IOL
SUN-NETLA LSD D7 SEC. TWN. RGE. W. Contractor CO-TOOLS Type Rig NAT. 803 Month 2 Day 8 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.												
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation						
		5585		—	9							5585	5679	94	9	SHALE						5679	5750	71	9"	Shale						
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
		5	52	2	1	746-48						5	54		29	746-48						5"	54	2	18	746-48						
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL					
		COLLAR	3	7	2 7/8		DRILLING STRING				COLLAR		3	7	2 7/8		DRILLING STRING				COLLAR		3	7	2 7/8		DRILLING STRING					
		DATA	22	6 1/4	2 7/8		54M				DATA		22	6 1/4	"		140				54		DATA		22	6 1/4	"		140			
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE			
		19	OSCIG	4 45	11 30	18 1/2	5585	35-45	217				20	OSCIG	8 AM				35-50					20	OSC-14	8 AM				40M.		
		20	OSCIG																													
		Bit Serial No. 4498-28227					Table R.P.M.					Bit Serial No. 28227					Table R.P.M. 115					Bit Serial No. 28227					Table R.P.M. 115					
		Jet or Conventional - CON - CON					Nozzle Size 1/16					Jet or Conventional -					Nozzle Size 1/16					Jet or Conventional - CON.					Nozzle Size 1/16					
SURVEYS		Kind	Toro		at	5582	Ft.	3'	Deg. off		Kind		at		Ft.	Deg. off		Kind		at		Ft.	Deg. off									
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size			HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
		On Line	Circulating							On Line		Circulating							On Line		Circulating											

IOL
SUN NETLA LSD. **27** SEC. TWN. RGE. W. Contractor **Co-TOOLS** Type Rig **NAT. 808** Month **2** Day **7** 19**61**

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation		Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																
		5368	5404	36	9"	SHALE		5404		5502	98	9	SHALE		5502		5585	83	9"	SHALE		5502		5585	83	9"	SHALE																	
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.													
		5	50	2	3	746-48	TOTCO PLATE	5	52	—	25	746-48		5	52	2	1	746-48		5	52	2	1	746-48		5	52	2	1	746-48														
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL														
COLLAR		3	7	2 7/8		DRILLING STRING		3	7	2 7/8		DRILLING STRING		3	7	2 7/8		DRILLING STRING		3	7	2 7/8		DRILLING STRING		3	7	2 7/8		DRILLING STRING														
DATA		22	6 1/4	2 7/8		136M		22	6 1/4	..		138		54	22	6 1/4	11		138		54	22	6 1/4	11		138		54	22	6 1/4	11													
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE								
		18	OSCIGT	9 PM	12 PM	27	5368	150M	240	22 1/4 ON BOTTOM	19	OSCIGT	4 PM				50			19	OSCIGT	4 PM	11 PM	18 PM	5585	35445	217																	
		19	OSCIGT	4 PM			35				1																																	
		Bit Serial No. 99476-4498					Table R.P.M. 120					Bit Serial No. 4498					Table R.P.M. 100					Bit Serial No. 4498					Table R.P.M. 120-65																	
		Jet or Conventional - JET - CON					Nozzle Size 7/16 - 1/16					Jet or Conventional					Nozzle Size 1/16					Jet or Conventional					Nozzle Size 1/16																	
SURVEYS		Kind	Totco		at	5360	Ft.	3 1/2	Deg. off	Kind	Totco		at	5582	Ft.	3	Deg. off	Kind	Totco		at	5582	Ft.	3	Deg. off	Kind	Totco		at	5582	Ft.	3	Deg. off											
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size													
		On Line	Circulating					On Line	Circulating					On Line	Circulating					On Line	Circulating					On Line	Circulating																	
		3 3/4	4 1/4	1100	18"	68	6 3/4"	8		1100	18"	68	6 3/4"	7 1/4	1 1/2	1150	18"	58	6 3/4"	7 1/4	1 1/2	1150	18"	58	6 3/4"	7 1/4	1 1/2	1150	18"	58	6 3/4"													
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS									
		5:15	75				WATER		10:00	73	10.6	11.6	12.2	12.6	LIME 500#		5:00	66				60.62 gelco-50 PH. 15. PH. 12		7:00	67	10.6	11.4	12.5	30.57	2.80	thine													
		7:00	73	10.6	11.2		LIME - 400#		12:00	75					VISCAL 250#		8:30	72				9.17		8:30	72																			
		7:30	140				HYDROGEL - 600#		2:00	87					CAUSTIC 1.00#		10:00	71	10.6			150# Dakolite																						
							VISCAL - 200#		3:30	76	10.5	2.70	thine		STARCH 2.00							shoveled ditch water																						
							CAUSTIC - 50#		15:00	76	10.5	2.70	thine																															
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.													
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.					From	To	Hrs.					From	To	Hrs.					From	To	Hrs.																	
		CIRCULATE TO PULL		12	12:15	1/4	DRILLING		8		4	8	DRILLING		4		11:15	7 1/4	Circulated For Totco		11:15		11:30	1/4	Totco + 5582 - 3°		11:30		11:45	1/4	TRIP OUT OF HOLE		11:45		12	1/4								
		TOTCO @ 5360' - 3 1/2°		12:15	12:30	1/4																																						
		PULLED OUT OF HOLE		12:30	2:45	2 1/4																																						
		SERVICE RIG - CHECKED B.O.P.		2:45	3	1/4																																						
		RUN IN HOLE		3	4:45	1 3/4																																						
		DRILLING		4:45	8	3 1/4																																						
						8 HRS																																						
Driller		L. A. Bishop					Driller					Archibald					Driller					J. Vanstone																						

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: YES NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher **B. P. Dineen** Approved by

19. 61

YES _____ NO _____

Approved by

IMPERIAL
SUN. NETLA LSD. D7 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80 B Month 2 Day 5 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																
DEPTH		From	To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation																																				
		4934	5042	108	9"	SHALE-SILT		5042		5128	86	9	SHALE & SILT		5128		5162	34	9"	Silt & shale																																				
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																			
		5"	47	—	30	746-48	FLAT	5"		47	2	5	746-48		5"		48	—	1	746-48	FLAT & TOTCO PLATE																																			
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																		
COLLAR		3	7	2 7/8		DRILLING STRING		COLLAR		3	7	2 7/8		DRILLING STRING		COLLAR		3	7	2 7/8		DRILLING STRING																																		
DATA		22	6 1/4	2 7/8		130 M		DATA		22	6 1/4	"		132		DATA		22	6 1/4	2 7/8		54																																		
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																													
		17	OSCJ	6 1/2				45-50			17	OSCJ	6 1/2	2 3/4	19 1/4	5128	30	239			18	OSC-135	9 RM.			40-45																														
		Bit Serial No. 97207					Table R.P.M. 60					Bit Serial No. 97207					Table R.P.M. 60					Bit Serial No. 99476					Table R.P.M. 65																													
		Jet or Conventional - JET					Nozzle Size 3/8-7/16					Jet or Conventional -					Nozzle Size 3/8-7/16					Jet or Conventional - J.T					Nozzle Size 3-7/16																													
SURVEYS		Kind at Ft. Deg. off					Kind at Ft. Deg. off					Kind at Ft. Deg. off					Kind at Ft. Deg. off					Kind at Ft. Deg. off																																		
SLUSH PUMP RECORD		HOURS 825					Pump Press					Length of Pump Stroke					Strokes Per Min.					Liner Size					HOURS					Pump Press					Length of Pump Stroke					Strokes Per Min.					Liner Size									
		On Line Circulating																									On Line Circulating																													
		8 2					1650					18"					58					6 1/4					6 1/2					1650					14					58					6 1/4					6 3/4				
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																													
		1:00	72	10.2	16.0		WATER					8:30	46	10.2	14.6		50# DAKOTAITE					9:00	42	10.6			700# Hydrogel																													
		3:00	58	10.2	10.43		STARCH - 150#					10:00	45	10.4	10.4		#300 VISCAL					11:00	86	"	15.8		300# Lime																													
		4:30	50		50-98		VISCAL - 150#					12:00	41	10.2	60-98		#300 LIME										50# Caustic																													
		6:00	48	10.3	90-10		SHOVEL DITCH					1:30	43		10-14		#100 CAUSTIC										Water																													
		7:00	47		14.8		gels 0-15 PM 12 PT 2-5					2:30	43	10.2	20-14		DAMPED Ditch										shoveled ditch																													
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																			
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.					From To Hrs.					From To Hrs.					From To Hrs.					From To Hrs.																																		
		DRILLING 12 8					DRILLING 8 2 3/4 6 1/2					TRIP OUT OF hole 4 4 30 1/2					Service Rig Checked BOPs 4 30 4 45 1/4					TRIP IN hole to 4400 4 45 6 15 1 1/2					Cleaning OUT Bridge & Tight hole From 4000-4600 6 15 8 1 3/4																													
		TOTCO 8 HRS					PULLING OUT 2 30 2 45 1/4					RUN INTO 5040 Cleaned OUT to BOTTOM. 8 9 1					DRILLING 9 12 3																																							
Driller		L.A. Bishop					Driller					Archibald					Driller					J. Vantone																																		

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher E. H. Allen Approved by

DEPT. OF NORTHERN AFFAIRS & NATIONAL SERVICES
CALGARY, ALBERTA
FEB 15 1961
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

IMPERIAL SUMMIT LA LSD 27 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT 808 Month 1 Day 4 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.												2nd Tour From: 8:00 a.m. To: 4:00 p.m.												3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																																																																																																																													
DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation						DEPTH		From	To	Hole Made	Hole Size	Formation																																																																																																																																							
		4702	4806	104	9"	SHALE-SAND-SILT								4806	4889	83	9"	SAND & SHALE								4889	4934	45	9"	Sand + Shale																																																																																																																																							
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.					Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																																																																																																																																										
		5"	44	1	24	746-48	FLOAT							5"	45	—	DOWN	746-48								5"	45	2	17	746-48	FLOAT																																																																																																																																						
		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																																																																																																																																						
		COLLAR	3	7	2 7/8		DRILLING STRING							COLLAR	3	7	2 7/8		DRILLING STRING							COLLAR	3	7	2 7/8		DRILLING STRING																																																																																																																																						
		DATA	22	6 1/4	2 7/8		126M							DATA	22	6 1/4	"		126							DATA	22	6 1/4	"		127																																																																																																																																						
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE					No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE					No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																																																																																																																																				
		16	OSCJ	5:30				45-50						16	OSCJ	5:30	1:30	19 1/2	4889	50	282					17	OSCJ	6:45				27,000																																																																																																																																					
		Bit Serial No. 94484										Table R.P.M. 60												Bit Serial No. 94484 - 97207										Table R.P.M. 60												Bit Serial No. 97207										Table R.P.M. 130																																																																																																													
		Jet or Conventional - JET										Nozzle Size 2 3/8 - 1 1/16												Jet or Conventional -										Nozzle Size 3/8 - 7/16												Jet or Conventional - Jet										Nozzle Size 3/8 - 7/16																																																																																																													
SURVEYS		Kind	at			Ft.			Deg. off					Kind	at			Ft.			Deg. off					Kind	at			Ft.			Deg. off																																																																																																																																				
		HOURS 825										Pump Press										Length of Pump Stroke										Strokes Per Min.										Liner Size												HOURS										Pump Press										Length of Pump Stroke										Strokes Per Min.										Liner Size																																																																							
		On Line										Circulating																																																				On Line										Circulating																																																																																											
		8										1700										18"										60										7 1/4"												5 1/2										1700										18"										60										6 3/4"												6										4										1100										18"										60										7 1/4"									
SLUSH PUMP RECORD		No. 1												No. 2																																																																																																																																																							
		Time Visc. Wt. W L pH											ADDITIVES — POUNDS													Time Visc. Wt. W L pH											ADDITIVES — POUNDS													Time Visc. Wt. W L pH											ADDITIVES — POUNDS																																																																																																								
		12:30 42 10.4 16.8											WATER													8:00 46 10.4											Water													7:00 42 10.6											1300# Hydrogel																																																																																																								
		2:00 44											SHOVEL DITCH													9:30 44											#100 Viskal													10:00 100											450# Lime																																																																																																								
		3:30 43 10.4																								11:15 42																																			300# Starch																																																																																																								
		5:00 46 10.4																								1:00 39 10.4											Dumped Ditch													Dumped ditch											500# Dakolite																																																																																																								
		7:00 43																																																Water											100# Caustic																																																																																																								
MUD RECORD																																																																																																																																																																					
		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																																																																																																																																						
CORING																																																																																																																																																																					
DETAIL OF OPERATIONS AND REMARKS																																																																																																																																																																					
		DRILLING											12 4:15 4 1/4													DRILLING											8 1:30 5 1/2													Installed New Wash Pipes & Packing in Swivel											From To Hrs.																																																																																																								
		TIGHTENED SWIVEL											4:15													TOTCO											1:30 1:45 1/4													TRIP IN hole to 4670											4 5:30 1 1/2																																																																																																								
		PACKING NUT											4:30 1/4													PULLING OUT											1:45 3:30 1 3/4													Filled Pipes & Cleaning											5:30																																																																																																								
		DRILLING											4:30 7 2 1/2																																					OUT CONTINUOUS BRIDGES											6:45 1 1/4																																																																																																								
		TIGHTENED SWIVEL											7 7:15 1/4													SERVICING A/C &											3:30 4 1/2													to BOTTOM. Cleaned out 20' CAVINGS											6:45 7:45 1																																																																																																								
		DRILLING											7:15 8 3/4													B.O.P.																								DRILLING											6:45 7:45 1																																																																																																								
																																																		Circulated Hole Cleanout Row 7:45											7:45 8:45 1																																																																																																								
																																																		To TCO on Sand Line @ 4889											8:45																																																																																																								
																																																		DRILLING W/ 27,000 on Bit											8:45																																																																																																								
																																																		130 Rot. RPM.											12 3 3/4																																																																																																								
		Driller P.A. Bishop																								Driller Archibald																								Driller J. Vanstone																																																																																																																			

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 Total Contract Timehrs. Total Company Timehrs. Toolpusher B.P. Mease Approved by

IMPERIAL
SUN-NETLA LSD 27 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. BOB Month 2 Day 3 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.																									
	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation																					
	4487	4570	83	9"	SAND-SILT. LIME	4570	4607	37	9	SAND-SILT+LIME	4607	4702	95	9"	Landfill shale																					
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																		
	5"	41	2	17	746.48	FLAT	5"	42	-	10	746.48		5"	43	-	6	746.48	FLAT																		
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL																		
	COLLAR	3	7	2 7/8		DRILLING STRING	COLLAR	3	7	2 7/8		DRILLING STRING	COLLAR	3	7	2 7/8		DRILLING STRING																		
	DATA	22	6 1/4	2 7/8		122 M	54 M	DATA	22	6 1/4	2 7/8		122	54	DATA	22	6 1/4	2 7/8		124 M	54 M															
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE												
	15	OSC	10:30				48-50		15	OSC	10:30	1:20	16	46:07	50	144		16	OSC	5:30				35-45												
	16	OSC							16	OSC																										
SURVEYS	Bit Serial No.	10072				Table R.P.M.	60	Jet or Conventional	- CON	Nozzle Size	1 1/16	Bit Serial No.	10072-94484				Table R.P.M.	60	Jet or Conventional	-	Nozzle Size	1 1/16	Bit Serial No.	94484				Table R.P.M.	60	Jet or Conventional	-	Nozzle Size	2-3/8-1 7/16			
	Kind	at				Ft.	Deg. off	Kind	TOTCO				at	4607	Ft.	Deg. off	Kind	at				Ft.	Deg. off	Kind	at				Ft.	Deg. off						
	HOURS	825		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	5 1/2		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	6 3/4		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size															
SLUSH PUMP RECORD	No. 1	8	42	1050	18"	74"	No. 2	8	42	1050	18"	74"	No. 1	8	42	1050	18"	74"	No. 2	8	42	1050	18"	74"	No. 1	8	42	1050	18"	74"	No. 2	8	42	1050	18"	74"
	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	1:00	43	10.6	17.4		WATER	8:15	41	10.5	15.8	12.5	50 # Caustic Water	6:30	38	10.5			1100 # Hydrogel	8:00	39	10.4	16.8	12.5	250 # Lime	10:00	38	"			200 # Viskal	11:30	37	"			50 # Caustic
MUD RECORD	3:00	40				HYDROGEL - 200 #	9:30	40				100 # Ray Flow	8:00	39	10.4	16.8	12.5	250 # Lime	10:00	38	"			200 # Viskal	11:30	37	"			50 # Caustic						
	5:00	41	10.5			SHOVEL DITCH	11:00	39	10.5	30-14		100 # Viskal	10:00	38	"			200 # Viskal	11:30	37	"			50 # Caustic												
	7:00	40	10.6				1:00	38	10.4	40-17		250 # LIME	11:30	37	"			50 # Caustic																		
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.	From	To	Hrs.						
	DRILLING	12	8	8 HRS	DRILLING	8	1:30	5 1/2	TRIP IN HOLE	4	BRIDGE @ 1200	5:15	1 1/4	Cleaned out 30' to Bottom	5:15	5:30	1/4	DRILLING	5:30	12	6 1/2															
	PULLING OUT				PULLING OUT	1:30	3:15	1 3/4	Cleaned out 30' to Bottom	5:15	5:30	1/4	DRILLING	5:30	12	6 1/2																				
REMARKS	SERVICING RIG				SERVICING RIG	3:15	3:45	1/2	DRILLING	5:30	12	6 1/2																								
	RUNNING IN D.C.				RUNNING IN D.C.	3:45	4	1/4	DRILLING	5:30	12	6 1/2																								

Driller

L.A. Bishop

Driller

C. K. K. K.

Driller

J. Vanstone

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 Total Contract Time hrs. Total Company Time hrs. Toolpusher Approved by

IMPERIAL OIL LIMITED
DATE: DRILLING REPORT: 1961

WELL NO. IMPERIAL
WELL NAME SUN NETA LSD D7 SEC. TWN. RGE. W. Contractor CO-TOOLS Type Rig NAT. 80B Month 1 Day 2 19 61

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.															
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation											
	4287	4362	75	9"	SAND-SHALE		4362	4441	79	9	SAND & SHALE		4441	4487	46	9"	Sand & Shale											
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.										
	5	39	1	12	746-48	FLOAT TOTO PLATE	5	40	1	22	746-48		5	40	2	8	746-48	FLOAT & TOTO PLATE										
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								
	COLLAR	3	7			DRILLING STRING DRILL COLLARS		COLLAR	3	7			DRILLING STRING DRILL COLLARS		COLLAR	3	7			DRILLING STRING DRILL COLLARS								
	DATA	22	6 1/4			118M 54M		DATA	22	6 1/4			118 54		DATA	22	6 1/4	278		120 M. 54								
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled Reamed		
	14	S6	2:15 AM				30-35			14	S6	2:15 PM					50			14	S6	2:15 AM	6:15 AM	16	4463	50M	176	
																					15	OSC	10:30 PM					
SURVEYS	Bit Serial No.	474670				Table R.P.M. 120				Bit Serial No.	474670				Table R.P.M. 115				Bit Serial No.	474670 - 10072				Table R.P.M. 120				
	Jet or Conventional	CON				Nozzle Size 1 1/16				Jet or Conventional	✓				Nozzle Size 1 1/16				Jet or Conventional	Con.				Nozzle Size 1 1/16				
	Kind	at Ft. Deg. off				Kind	at Ft. Deg. off				Kind	TOTO at 4458 Ft. 13/14 Deg. off																
SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size										
	On Line	Circulating					On Line	Circulating					On Line	Circulating														
	6 1/4	13/4	1000	18"	70	7 1/4"	7 1/2		1000	18"	70	6 3/4"	4		1000	14"	70	6 3/4"										
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								
	3:15	38	10.7	18.2		WATER		8:45	39	10.7	16.2	12.5	adding Water dumped		11:30	40	10.6			800# Hydrogel								
	5:00	38				SHOVEL DITCH		10:00	40				200# Caustic Soda		11:30	40				250# Lime								
	6:30	39						11:30	42				250# Uis KAH							200# Viskal								
								1:00	42	10.5			1100 Gel							50# Caustic								
								2:15	39				350# LIME							Dumped ditch Water								
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.										
							Dumped Ditch + PIT																					
DETAIL OF OPERATIONS AND REMARKS	CHECKED BOP'S RUN IN HOLE FILLED PIPE & CLEANED 25' TO BOTTOM DRILLING						From	To	Hrs.	DRILLING SERVICING RIG REPAIRING ROTARY CLUTCH DRILLING DRILLING						From	To	Hrs.	DRILLING TOTO @ 4458 TRIP OUT OF HOPE CHECKED BOPS SERVICE RIG TRIP IN & MEASURED IN Filled Pipe & Cleaned OUT 30' TO BOTTOM. DRILLING						From	To	Hrs.	
							12	1:45	1 3/4							8	9	1							4	6	2	
							1:45									9	9:15	1/4							6	6:15	1/4	

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.		YES	NO

Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

SUN. NETLA LSD. 17 SEC. TWN. RGE. W. Contractor I.O.L. Type Rig NAT. 80B Month FEB Day 1 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation																								
		4117	4150	33	9"	SILT. SHALE		4150		4240	90	9"	SILT & SHALE		4240		4287	47	9"	Silt. & Shale																								
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																							
		5	37	-	14	746.48	---	5		38	14	746.48	---	5		38	2	26	746-48	---																								
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds																				
		12	OSC	3:30	2:45	11 1/4	4142	50M	12.5	13		OSC	7:15				35.45	13		OSC	7:15	10PM	14 3/4	4287	45M	14.5																		
		Bit Serial No. 4017-17173 Table R.P.M. 60							Bit Serial No. 17173 Table R.P.M. 60							Bit Serial No. 17173 Table R.P.M. 60																												
		Jet or Conventional - JET CON 11/16 Nozzle Size 3/8 7/16							Jet or Conventional - Nozzle Size 11/16							Jet or Conventional - Con. Nozzle Size 11/16																												
SURVEYS		Kind	Totco at 4130		Ft. 10		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off																					
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size																			
		On Line	Circulating					On Line		Circulating					On Line		Circulating				On Line		Circulating																					
		2 1/4	-	1000	18"	32	7 1/4"	2			1000	18	32	7 1/4"	5 3/4		2 1/4	1050	18	58	5 3/4		2 1/4	1050	18	58	6 3/4																	
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																					
		1:00	42	10.5			WATER		9:15		41	10.5			600# JEL		4:30		38	10.6			Water																					
		2:30	43				SHOULDER DITCH		10:45		40	10.5	14.6	12.5	600-29150# QUEB.		6:00		36	10.6	17.4		Shovelled ditch																					
									12:30		41				350# LIME		8:00		37	600-24-300-14-PH 10 P.P. 4	10:30		37	10.6	900-5090 Sand PH 11.5 P.P. 3.4																			
									2:00		40	10.5			100 DAKOLITE		9:30		37	10.6			2.37# lime																					
							PH 11.5 P.P. 2.9								Angulo 10.2 min 18.2.29 min																													
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																							
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.					From	To	Hrs.					From	To	Hrs.																								
		DRILLING		12	2:45	2 3/4	DRILLING		8		4	8	DRILLING		4		9:45	5 3/4																										
		TOTO @ 4130' - 10		2:45	3	1/4	TOTO @ 4282		9:45		10	1/4	TOTO @ 4282		9:45		10	1/4																										
		PULLED OUT OF HOLE		3	5	2	TRIP OUT OF HOLE		10		10:30	1/2	TRIP OUT OF HOLE		10		10:30	1/2																										
		RUN IN HOLE		5	7	2	FREEING UP DRAIN WORK		10:30				FREEING UP DRAIN WORK		10:30																													
		FILLED PIPE-CLEANED TO BOTTOM		7			CONTROLS & ADJUSTED BRAKE				10:45	1/4	CONTROLS & ADJUSTED BRAKE				10:45	1/4																										
		DRILLING		7:15	8	3/4	TRIP OUT OF HOLE		10:45		12	1 1/4	TRIP OUT OF HOLE		10:45		12	1 1/4																										
		Driller		R. A. Bishop				Driller		C. Schubert				Driller		J. Vanstone																												

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY?

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: APPROVED BY

Total Contract Time hrs. Total Company Time hrs. Toolpusher B. H. Nease Approved by

Dr. J. B. Van der ...

[illegible][illegible]

On line	Calculating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Final Size
2 1/2"	2 1/2"	10.50	14"	2.8	5 1/2"

Kind	mt	ft	Deg. off
Conviction	Conv.		
Serial No.	17173		
Table R.P.M.	160		
Nozzle Size	1/16		

13 025 4.1m 100w 14 JAN 52 142

DATE					DRIING STRING-DRILL COLLARS
22	PM	7			M 24 M.
28	AM	11			M 11 M.

2	38	22	246-48	—
2	38	22	246-48	—
2	38	22	246-48	—

Imp Sun Net La LSD. SEC. TWN. RGE. W. Contractor Co. Tools Type Rig NAT 80B. Month JAN Day 31 19 61

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation		From		To	Hole Made	Hole Size	Formation																								
		3842	3986	144	9"	Limestone sil		3986		4015	29	9"	SILT-SHALE		4015		4117	102	9"	SILT & SHALE																								
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																							
		5'	35'	—	5'	746-48		5'		35'	2	28	746-48		5'		36'	2	17	746-48																								
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE																	
		11	OSCJ	7:30 PM				35-50			11	OSCJ	7:30 AM	9:45 AM	14 1/4	4017	45-50	257			12	OSCJ	3:30 PM				30-50																	
		Bit Serial No. 94481					Table R.P.M. 120					Bit Serial No. 94481-4017					Table R.P.M. 7590					Bit Serial No. 4017					Table R.P.M. 40-90																	
		Jet or Conventional - Jet.					Nozzle Size 9/16					Jet or Conventional - JET-JET					Nozzle Size 9/16 3/8					Jet or Conventional -					Nozzle Size 9/16 3/8																	
SURVEYS		Kind at Ft. Deg. off					Kind TOTCO at 4000' Ft. 1°					Kind at Ft. Deg. off																																
SLUSH PUMP RECORD		HOURS					Pump Press					Length of Pump Stroke					Strokes Per Min.					Liner Size																						
		On Line Circulating					1650					14					60					6 3/4																						
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS					Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS																	
		12:30	38				water					8:30	46	10.5	18.5	12.5	WATER					4:45	39				150# DAKOLITE																	
		1:30	39	10.1			50 lbs C. Soda										600-37 DUMPED DITCH					6:00	40				188# 100# QOE 1200# gel																	
		2:00	46				250 lbs Lime										300-24 Inj 2. 10 min 20					8:45	44	10.6	17.2	12.5	350# LIME																	
		4:30	39		10.00		150 lbs. Vis Hal										400-35 100-31 100-105 190# Carostic Soda					10:00	44																					
		7:00	42				400 lbs gel.															11:00	43																					
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																							
DETAIL OF OPERATIONS AND REMARKS		From To Hrs.					From To Hrs.					From To Hrs.																																
		Drilling 12:00 8:00					DRILLING 8 9:45 1 3/4					Drilling 4 12. 8																																
							TOTCO @ 4000' - 1° 9:45 10 1/4																																					
							8 HRS PULLED OUT OF HOLE 10 12 2																																					
							SERVICE RIG. CHECKED BOP'S 12 12:15 1/4																																					
							CUT 60' OFF DRILLING LINE 12:15 1:15 1																																					
							MEASURED IN HOLE 1:15																																					
							CORRECTED DEPTH 4015 3:15 2																																					
							FILLED PIPE CLEANED TO 3:15 3:30 1/4																																					
							BOTTOM DRILLING 3:30 4 1/2																																					
		Driller R. A. Bishop 8 HRS					Driller Archibald																																					

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs.

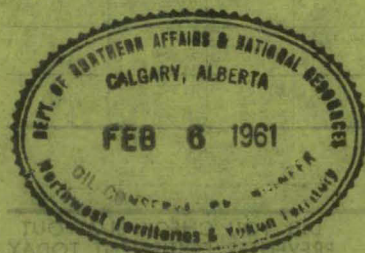
Total Company Timehrs.

Toolpusher R. A. Bishop

Approved by

Imperial Oil Limited
Contractor Co. Woods
Type Rig Nat 200
Month Jan Day 31
DAILY DRILLING REPORT # 15

1st Tour From 12:00 Midnight To 8:00 a.m.										2nd Tour From 8:00 a.m. To 4:00 p.m.										3rd Tour From 4:00 p.m. To 12:00 p.m.									
DEPTH			DRILLING STRING			BIT				RECORD			SURVEYS			SLUSH PUMP RECORD			MUD RECORD			CORING			DETAIL				
From	To	Formation	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands	Drill Collar Ft.	Standards	Stands			
3045	3085	14 1/2	3	32	1	3045	3085	14 1/2	3	32	1	3045	3085	14 1/2	3	32	1	3045	3085	14 1/2	3	32	1	3045	3085	14 1/2	3	32	1
[Handwritten notes and data entries follow in this section]																													



Approved by [Signature]
Total Contact Time
Toolpusher
Loggins
W.O. Orders
D.S. Testing
Circulating
Fishing
Tripping
Conditioning mud
Classes of time breakdown
Heading up & over
Out to rig
Drilling
Remains

1 mi SW NE 8 LA LSD. D7 SEC. TWN. RGE. W. Contractor Co. Tools. Type Rig NAT 808 Month JAN - Day 30 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.																																			
DEPTH	From		To		Hole Made		Hole Size		Formation		From		To		Hole Made		Hole Size		Formation		From		To		Hole Made		Hole Size		Formation																			
	3482		3625		143		9		Lime & shale		3625		3760		135		9		SILT-LIME-SHALE		3760		3842		82		9		SILT-LIME & SHALE																			
DRILLING STRING	Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.		Size-D.P.		Stands		Singles		Kelly		Drill. Collar Ft.		Core Bbl. Ft.													
	5		31		—		3.		746.48				5		32		2		19		746.48		—		5		33		2		27.		746.48															
	DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL		DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL		DRILL		Number		OD		ID		Length		INDICATOR WEIGHT OF TOTAL													
	COLLAR		3		7						DRILLING STRING		COLLAR		3		7						DRILLING STRING		COLLAR		3		7				DRILLING STRING		DRILL COLLARS													
	DATA		22		6 1/4		R 3/8				112 M		54 M		DATA		22		6 1/4		R 3/8				112-M.		54-M.																					
BIT RECORD	No.		Type		Time On Bottom At		Time Pulled At		Total Hours Run		Depth Pulled		Weight On Bit M Pounds		FOOTAGE		No.		Type		Time On Bottom At		Time Pulled At		Total Hours Run		Depth Pulled		Weight On Bit M Pounds		FOOTAGE		No.		Type		Time On Bottom At		Time Pulled At		Total Hours Run		Depth Pulled		Weight On Bit M Pounds		FOOTAGE	
	10		OSCJ		14 am						35'-40'				10		OSCJ		14 am		3 pm		13 1/4		3760		40 M		278				11		OSCJ		7 30				30-40							
	Bit Serial No.		94480		Table R.P.M.		120		Jet or Conventional -		JET		Nozzle Size		9/16		Bit Serial No.		94480		Table R.P.M.		120		Jet or Conventional -		JET		Nozzle Size		9/16		Bit Serial No.		94481		Table R.P.M.		90		Jet or Conventional -		JET		Nozzle Size		9/16	
SURVEYS	Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off									
SLUSH PUMP RECORD	HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size		HOURS		On Line		Circulating		Pump Press		Length of Pump Stroke		Strokes Per Min.		Liner Size							
No. 1	7		6		1		1650		14		60		6 3/4		7		4		3		700		18		42		7 1/4"		5		1600		14		60		6 3/4		7 1/4"									
No. 2																																																
MUD RECORD	Time		Visc.		Wt.		W L		pH		ADDITIVES — POUNDS		Time		Visc.		Wt.		W L		pH		ADDITIVES — POUNDS		Time		Visc.		Wt.		W L		pH		ADDITIVES — POUNDS		Time		Visc.		Wt.		W L		pH		ADDITIVES — POUNDS	
	2:00		38		10						100 lbs Quekco Loda		8:15		41		10.1		18.2		12.5		WATER - DUMPED DUE		8:15		38		10.2						WATER DUMPED DUE		8:15		38		10.2						50# DRIS COSE	
	3:00		36								250 lbs Viskal		10:15		45		10.1		18.2		12.5		VISHAL - 300#		9:30		40		1								10:30		41		10.1		18.2		12.5		400-30 100# RAYFLO	
	4:00		35								500 lbs Lime		12:00		35		10.2		6.0		20		LIME - 500#		10:30		41		10.1		18.2		12.5		400-30 100# RAY													

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.			
									YES	NO	

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher Charnelto Approved by _____

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

10

 Imp Well No. 7 LSD P 7 SEC. 7 TWN. 7 RGE. 7 W. 7 Contractor Co. Tools Type Rig NAT 80B Month JAN Day 29 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.										
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				
		3237	3311	74	9"	Limer Shale.						3311	3436	125	9"	LIME-SHALE						3436	3482	46	9	LIME & SHALE				
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.		Core Bbl. Ft.		
		5'	27	2	13	746.48						5	29	-	9	746.48						5	29	2	24	746.48				
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.		Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
		8	OSC 3	11:45	2:30 AM	14 3/4	3280	25-20	378				9	OSC 3	6 AM				30M					9	OSC 3	6:15	12:12	3482	35	202
		9	OSC 3	6:15															35M					10	OSC 3					
		Bit Serial No. 7771-7742 Table R.P.M. 120								Bit Serial No. 7742 Table R.P.M. 125								Bit Serial No. 7742-94480 Table R.P.M. 120												
		Jet or Conventional - CON Nozzle Size 1/16								Jet or Conventional - CON Nozzle Size 1/16								Jet or Conventional - CON Nozzle Size 1/16												
SURVEYS		Kind	at		Ft.		Deg. off		Kind		at		Ft.		Deg. off		Kind		at		Ft.		Deg. off							
		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											
		On Line	Circulating					On Line		Circulating				On Line		Circulating														
		5 1/2	2 1/2	1200	14	55	8	4		2	700	18"	44	7 1/4	3 1/4		1000	18"	92	6 3/4										
SLUSH PUMP RECORD		No. 1	No. 2					No. 1		No. 2				No. 1		No. 2														
		5 1/2	2 1/2					4		2				3 1/4																
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time		Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
		12:30	36	9.9			Dumped Ditch Water		8:45		55	10	17.2	12.5	Mixed 1200 gel Water DUMPED DITCH		4:45		41				adding Water							
		1:30	36				100 lbs Catalyst		10:15		55	10.1			DUMPED DITCH		6:30		39	10.1			Dump Ditch							
		6:00	34		17.4		300 lbs lime		1:15		36	10-2					7:15		38				+ Jam out							
		7:00	34				250 Vis Hal		3:00		40												1000 # gel							
							600 lbs gel.																							
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.		From		To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.							
DETAIL OF OPERATIONS AND REMARKS				From	To	Hrs.			From		To	Hrs.			From		To	Hrs.			To	Hrs.								
		Drilling		12:00	2:30	2 1/2			DRILLING		8	8:30	1/2			Drilling		4	7:15	3 1/4										
		Pulling out of hole		2:30	4:00	1 1/2			TOTCO @ 3300' ON SAND LINE		8:30	9	1/2			REPAIRS TO MASTER CLUTCH.		7:15	8	3/4										
		SERVICE RIG & Check R.O.P.		4:00	4:15	1/4			DRILLING		9	4	7			PULLING OUT		8	9:45	1 3/4										
		Running in hole		4:15	5:15	1										DUMPING MUD TANK		9:45	10:45	1										
		Pulling out of hole		5:15	5:45	1/2										CLEANING OUT-SAND		10:45	11	1/4										
		Running in hole		5:45	6:00	1/4										SERVICING RIG		11	12	1										
		Cleaning and drilling out to Bottom		6:00	6:15	1/4										RUNNING IN HOLE		11	12	1										
		Drilling		6:15	8:00	1 3/4																								
		Driller				8 hrs			Driller							Driller														

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

 Total Contract Timehrs. Total Company Timehrs. Toolpusher P. Bishop Approved by

4

#4

#4

#4

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher Ch. Daniels Approved by _____

Imp. Sum. No. 1611 LSD. D-7 SEC. TWN. RGE. W. Contractor F.O.V. Type Rig Nat #1 Month JAN. Day 26 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.									
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation					
	1704						1704	1884	180	9"	SAND-SHALE		1984	2120	136	9"	SAND & SHALE					
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.				
	5	12	1	26	546.32		5	13	1	24	630.97		5	15	2	DOWN	630.99					
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				
	COLLAR	3	7			DRILLING STRING	COLLAR	3	7			DRILLING STRING	COLLAR	3	7			DRILLING STRING				
	DATA	15	6 1/4			44M	DATA	18	6 1/4			80M	DATA	18	6 1/4			80				
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE					
	4	OSC-18	7:30	9-	1 1/2	1704	30	69		5	OSC-J	12:15				25.30M						
SURVEYS	Bit Serial No.	60615				Table R.P.M.	150				Bit Serial No.	1451				Table R.P.M.	125					
	Jet or Conventional					Nozzle Size					Jet or Conventional	JET				Nozzle Size	9/16					
	Kind	at				Ft.	Deg. off	Kind	at				Ft.	Deg. off	Kind	TOTCO				at	1938	Ft.
SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
	On Line	Circulating					On Line	Circulating					On Line	Circulating								
	No. 1	No. 2					No. 1	No. 2					No. 1	No. 2								
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
	12:30	36				800 lbs Gel.		1:30	50	9.8			WATER		5:00	46				14.6 PH 14.5 U is KAL #1100		
	1:30	37				DST #1 1654'-1704'		2:30	36				SHOVEL DITCH		6:30	43				4.5-5.5 "line" Water 400 "line"		
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				
DETAIL OF OPERATIONS AND REMARKS	Circulating & conditioning mud for daylight						TRYING TO OPEN HYDRAULIC VALVE						DRILLING									
	Pulled 9stds. up to casing						PULLED PACKER OUT OF HOLE						TOTCO (WIRELINE)									
	can back to bottom						BROKE & LAYED DOWN PACKER						DRILLING									
	Circulating installing mono link						SERVICE RIG - CHECKED BOP'S						PULLING OUT									
	Pulled out of hole						PICKED UP 3-6 1/4 DC'S															
	Making up packer						+ RUN IN HOLE															
	Running in hole, picking up singles						DRILLING															
	Setting packer																					
Driller: Jim Kerby						Driller: L.A. Bishop						Driller: Archibald										

 CLASSES OF TIME BREAKDOWN
 HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Timehrs. Total Company Timehrs. Toolpusher P. Bennett Approved by

Lat Sun Nefk LSD. SEC. TWN. RGE. W. Contractor Co Tools Type Rig NAT FOR Month JAN Day 25 19 61

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation										
	991	1021	30	9"	shale.	1021	1635	614	9"	SAND-SHALE	1635	1704	69	9"	SAND & SHALE										
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.							
		5	2	Down.	546-07		5"	12	1	5	454-07		5	12	1	26	546-32								
DRILL	Number	OD	ID	Length	INDICATOR	WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR	WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR	WEIGHT OF TOTAL					
COLLAR	3	7"			DRILLING STRING	DRILL COLLARS	COLLAR	3	7"			DRILLING STRING	DRILL COLLARS	COLLAR	3	7"			DRILLING STRING	DRILL COLLARS					
DATA	12	6 1/4					DATA	12	6 1/4			68M		DATA	15	6 1/4			70	5"					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
	3	OSC 3	7 1/2 AM				5-10		3	OSC 3	7 1/2 AM	3 30 PM	8 1/4	1635	20-30	644		4	OSC 18	9 30 AM				20-35	
Bit Serial No.	7749						Table R.P.M.	180	Bit Serial No.	7749						Table R.P.M.	150	Bit Serial No.	60615					Table R.P.M.	125
Jet or Conventional -	CON						Nozzle Size	1 1/16	Jet or Conventional -	CON						Nozzle Size	1 1/16	Jet or Conventional -						Nozzle Size	1 1/16
SURVEYS	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off	Kind	at	Ft.	Deg. off					
SLUSH PUMP RECORD	HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS	On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
No. 1	3/4				14			8	8		800	18"	70	8"	4 1/2			850	14"		8 1/4				
No. 2					18																				
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
							9:00	30	9.1			LIME — 1750 #	8:00	44	9.6	16.2	12.5	100-200 Lbs. 10% in 18"							
							11:00	30				VISCAL — 850 #	9:25	32	9.5	1200 Sand	300-16	21 P. 4.5							
							1:30	32	9.5			CAUSTIC SODA — 600	10:45	37				4.29" lime							
			</																						

CLASSES OF TIME BREAKDOWN										DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY	
HEADING UP & DRLG. OUT:	TOTCO:	CONDITIONING MUD:	CASING:	LOGGING:	RIG MAINTENANCE:	REAMING CLEANING:	MNFR. DRILLING LINE IN USE	REEL SERIAL No.			
DRILLING:	FISHING:	TRIPPING:	W.O.C.	W O ORDERS:	MISCELLANEOUS:	WORKING PIPE:					
REAMING:	CIRCULATING:	CORING:	D.S. TESTING:	RIG REPAIRS:	CONDITION HOLE:	LOST CIRC.:	MNFR. OF KELLY HOSE IN USE	HOSE SERIAL No.	YES	NO	

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Bennett Approved by _____

129

3rd Four From 4:00 p.m. To 12:00 p.m.

Imp Son Netra ^D LSD. 7 SEC. TWN. RGE. W. Contractor Co Tools Type Rig NAT 80B Month Jan Day 24 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation							
	991						991						991											
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING	COLLAR					DRILLING STRING						
	DATA					DRILL COLLARS	DATA					DRILL COLLARS	DATA					DRILL COLLARS						
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE							
								Drilled	Reamed								Drilled	Reamed						
	Bit Serial No.						Table R.P.M.						Bit Serial No.						Table R.P.M.					
	Jet or Conventional -						Nozzle Size						Jet or Conventional -						Nozzle Size					
SURVEYS	Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off								
	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
	On Line	Circulating					On Line	Circulating					On Line	Circulating										
	No. 1	No. 2					No. 1	No. 2					No. 1	No. 2										
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS			Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS	From To Hrs.						From To Hrs.						From To Hrs.											
	W.O.C. Heading up. 12 ⁰⁰ 8 ⁰⁰ 8						HEADING UP 8 2 6						DRILLING OUT FLOAT 4											
							PICKED UP 9" COLLAR & 12 1/4 2						9 SHOE & CLEANING											
							BIT - RUN IN HOLE TO TOP OF FLOAT COLLAR 4 2 8 HRS						TO BOTTOM. 6 2											
													REPAIRING VALVE											
													8 UNION ON STAND 6 7 1											
													PIPE - PRESURING 7 9 4											
													UP HEAD TO 1000 PSI											
													RIGGING UP & DRILLING 9 11 2											
													MOUSE HOLE / PICKING UP W.O.C. 10 1 2											
	Driller <i>[Signature]</i>						Driller <i>[Signature]</i>						Driller <i>[Signature]</i>											

CLASSES OF TIME BREAKDOWN
 HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:
 Total Contract Timehrs. Total Company Timehrs. Toolpusher Approved by

Day 24

[illegible]

Imp Sun No. 10 LSD. D7 SEC. _____ TWN. _____ RGE. _____ W. _____ Contractor Co Tools Type Rig NAT 80B Month 1 Day 23 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.										2nd Tour From: 8:00 a.m. To: 4:00 p.m.										3rd Tour From: 4:00 p.m. To: 12:00 p.m.																					
DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation				DEPTH		From	To	Hole Made	Hole Size	Formation															
991										991										991																					
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.			Size-D.P.		Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.																
DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL				DRILL		Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL															
COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS				COLLAR						DRILLING STRING				DRILL COLLARS			
DATA										DATA										DATA										DATA											
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE														
Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.				Bit Serial No.						Table R.P.M.					
Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size				Jet or Conventional -						Nozzle Size					
SURVEYS		Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off		
SLUSH PUMP RECORD		HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size				
No. 1		On Line	Circulating					On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating				On Line		Circulating							
No. 2																																									
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS				Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.				From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.																
DETAIL OF OPERATIONS AND REMARKS		Ran 32 Jts new 13 3/4" casing				From	To	Hrs.		W.O.C.				From	To	Hrs.		W.O.C. & Bleeding				From	To	Hrs.																	
		54.5 lbs J55 R2 cemented by Halliburton												8				4				8 HRS																			
		with 800 sacks cement 2% CA/CL ₂																																							
		casing landed at 963-6211 B																																							
		plug down at 805 AM																																							
		Rig up to run casing				12 ⁰⁰	1 ⁰⁰	1																																	
		Running casing				1 ⁰⁰	5 ³⁰	4 1/2																																	
		Circ. casing				5 ³⁰	7 ⁰⁰	1 1/2																																	
		Running 800 sacks cement				7 ⁰⁰																																			
		2% CA/CL ₂					8 ⁰⁰	1 1/2																																	
Driller		P. Kirby								Driller				L. A. Bishop								Driller				C. Schuchard															

HEADING UP & DRG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher

Approved by

LSD. SEC. TWN. RGE. W. Contractor CO-TOOLS Type Rig NAT 80B Month 1 Day 22 1961

1st Tour From: 12:00 Midnight To: 8:00 a.m.															2nd Tour From: 8:00 a.m. To: 4:00 p.m.															3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH		From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation									From	To	Hole Made	Hole Size	Formation												
		991			17 1/2										991			17 1/2										991			17 1/2													
DRILLING STRING		Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.								Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.											
			9	-	down	230-43									5	7	-	9	230-43									5	8	1	22	230-43												
BIT RECORD		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL								DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL											
		COLLAR	3	9			DRILLING STRING								COLLAR	3	9			DRILLING STRING								COLLAR	3	9			DRILLING STRING											
		DATA	2	2 1/4											DATA	2	2 1/4											DATA	2	2 1/4														
BIT RECORD		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE						No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE									
		Reamer	Reed					6.10							1	REED													1	REED														
		Bit Serial No. - 649072 Table R.P.M. 140														Bit Serial No. Table R.P.M.														Bit Serial No. Table R.P.M. 122														
		Jet or Conventional - Nozzle Size														Jet or Conventional - PILOT REAMER 17 1/2" Nozzle Size														Jet or Conventional - Nozzle Size														
SURVEYS		Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off			Kind	at			Ft.			Deg. off															
SLUSH PUMP RECORD		HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	750 HOURS 750				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS				Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size											
		On Line	Circulating							On Line	Circulating								On Line	Circulating						On Line	Circulating																	
		8			475	14	70	7 1/2		8			800	18"	40	7 1/4"						800	18	40	7 1/4																			
		5 1/4			850	18	34	7 1/2		8				14"	64	8"							14	64	8																			
MUD RECORD		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS								Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS											
		1230	33				water								8:30	34				WATER																								
		200	34	95			dumped ditch								9:30	32	9.8			SHOULDER DITCH																								
		400	34				shoveled								12:00	33																												
		530	34												2:30	34																												
CORING		From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.								From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.											
DETAIL OF OPERATIONS AND REMARKS		Picking up 7" DC + 1 6 1/4 To REAM. REAMING from 141-504														REAMING 13 3/4 HOLE TO 17 1/2 8 INTERVAL - 504 - 860														REAMING 13 3/4 - 17 1/2 4 5 1/2 1 3/4 860 - 960 CIRCULATING 5 1/2 6 1/4 TRIPPING - MEASURING IN HOLE & CLEANING 6 OUT BRIDGES REAMED TO 992. CIRCULATING 9 10 1 PULLING OUT & TRIPPING 10 12 2 DOWN DC.														
		Driller <u>Jim Gentry</u>														Driller <u>R. A. Bishop</u>														Driller <u>Crishall</u>														

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE REEL SERIAL No. DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
 DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: MNFR. OF KELLY HOSE IN USE HOSE SERIAL No. YES NO
 REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher CRISHALL

Approved by _____

Imp Sun. N. E. T. R. LSD. D. 2 SEC. TWN. RGE. W. Contractor Co. TOOLS Type Rig NAT. 80B Month 1 Day 21 1961

	1st Tour From: 12:00 Midnight To: 8:00 a.m.						2nd Tour From: 8:00 a.m. To: 4:00 p.m.						3rd Tour From: 4:00 p.m. To: 12:00 p.m.														
DEPTH	From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation		From	To	Hole Made	Hole Size	Formation										
	276	590	314	13 3/4			590	991	401	13 3/4			991			19 1/4											
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.									
	5	4	-	5	230-43		5	8	1	DOWN	230-43		5			DOWN											
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL		DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL							
	COLLAR	3	9				COLLAR	3	9					COLLAR	3	9											
	DATA	3	2 1/4			50	DATA	3	2 1/4			54M	DATA	3	2 1/4												
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE	
	1	OSC 3	12 noon	5:30 PM	16 3/4	564	5-13	564		2	OSC 3	7 AM	4	7 1/2	991	15M	427			19	REAMER					110	
	2	OSC 3																									
	Bit Serial No. 12553 Table R.P.M. 150						Bit Serial No. 689172 Table R.P.M. 150						Bit Serial No. Table R.P.M.														
	Jet or Conventional - CON. Nozzle Size						Jet or Conventional - CON Nozzle Size						Jet or Conventional - Nozzle Size														
SURVEYS	Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off		Kind	at		Ft.		Deg. off							
SLUSH PUMP RECORD	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS		Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size									
	On Line	Circulating					On Line	Circulating					On Line	Circulating													
	5 1/2		4 75	14	75	7 3/4		7		800	18	40		1/2		18	40										
	2 1/2			18	58			7 3/4			14	62		4 3/4		14	62										
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS		Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS							
	12:15	32				water		8:30	34				WATER							water							
	2:00	31				SHOULDER DITCH		10:30	32				SHOULDER DITCH							SHOULDER + DITCH							
	4:30	32						1:00	32																		
								3:00	35																		
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.									
DETAIL OF OPERATIONS AND REMARKS																											
	Drilling						DRILLING 13 3/4 HOLE						CIRCULATING														
	Totco @ 5'04" 3/4"						Totco @ 725' - 1/2"						LAYING DOWN														
	Drilling						SERVICE RIG						D.P. & D.G. TO REAM														
	Pulling out of hole very tight						DRILLING						PICK UP D.P. &														
	Running in hole.						30						SUB S. - TO REAM														
	Drilling												REAMING FROM														
													O - 1 H.														
	Driller <u>P. Kirby</u>						Driller <u>L. A. Bishop</u>						Driller <u>C. Chisholm</u>														

CLASSES OF TIME BREAKDOWN

 HEADING UP & DRLG. OUT:
 DRILLING:
 REAMING:

 TOTCO:
 FISHING:
 CIRCULATING:

 CONDITIONING MUD:
 TRIPPING:
 CORING:

 CASING:
 W.O.C.
 D.S. TESTING:

 LOGGING:
 W O ORDERS:
 RIG REPAIRS:

 RIG MAINTENANCE:
 MISCELLANEOUS:
 CONDITION HOLE:

 REAMING CLEANING:
 WORKING PIPE:
 LOST CIRC.:

 MNFR. DRILLING LINE IN USE
 MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES NO

Total Contract Time _____ hrs.

Total Company Time _____ hrs.

Toolpusher _____

Approved by _____

LSD. *D-7* SEC. *W* TWN. *W* RGE. *W* Contractor *W* Type Rig *Nat #1* Month *1* Day *20* 19*61*

1st Tour From: 12:00 Midnight To: 8:00 a.m.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From To Hole Made Hole Size Formation

From To Hole Made Hole Size Formation

From To Hole Made Hole Size Formation

DRILLING STRING

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

Size-D.P. Stands Singles Kelly Drill. Collar Ft. Core Bbl. Ft.

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

DRILL Number OD ID Length INDICATOR WEIGHT OF TOTAL

COLLAR DRILLING STRING DRILL COLLARS

COLLAR DRILLING STRING DRILL COLLARS

COLLAR DRILLING STRING DRILL COLLARS

DATA

DATA

DATA

BIT RECORD

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed

Bit Serial No. Table R.P.M.

Bit Serial No. Table R.P.M.

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Jet or Conventional - Nozzle Size

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

Kind at Ft. Deg. off

Kind at Ft. Deg. off

SLUSH PUMP RECORD
No. 1
No. 2

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

HOURS On Line Circulating Pump Press Length of Pump Stroke Strokes Per Min. Liner Size

MUD RECORD

Time Visc. Wt. W L pH ADDITIVES — POUNDS

Time Visc. Wt. W L pH ADDITIVES — POUNDS

Time Visc. Wt. W L pH ADDITIVES — POUNDS

CORING

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From To Hrs.

From To Hrs.

From To Hrs.

Mixing mud + rigging up.

12 8 8

Rigging up
Center punched
conductor hole
Preparing to spud
Spudded in 12 Noon.
Drilling 13 3/4 hole +
handling 9" D. collars
Picking up 9" D. collar
+ Totco8 10:30 2 1/2
10:30 11:30 1
11:30 12:00 1/2
3 3
4 1Picking up D.B.
Drilling

4 12 8

Driller *J. Kelly*Driller *R. A. Sisk*Driller *W. H. Hild*

CLASSES OF TIME BREAKDOWN

HEADING UP & DRG. OUT:
DRILLING:
REAMING:TOTCO:
FISHING:
CIRCULATING:CONDITIONING MUD:
TRIPPING:
CORING:CASING:
W.O.C.
D.S. TESTING:LOGGING:
W O ORDERS:
RIG REPAIRS:RIG MAINTENANCE:
MISCELLANEOUS:
CONDITION HOLE:REAMING CLEANING:
WORKING PIPE:
LOST CIRC.:MNFR. DRILLING LINE IN USE
MNFR. OF KELLY HOSE IN USE

REEL SERIAL No.

HOSE SERIAL No.

DID YOU CHECK BLOWOUT
PREVENTER EQUIPMENT TODAY

YES NO

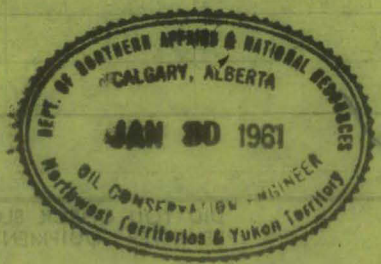
Total Contract Time.....hrs.

Total Company Time.....hrs.

Toolpusher

Approved by

Der 05.05.1941

[illegible]



Daily Completion and/or Workover Report

Well Name:

Sun Netla C-07

☐ Completion ☐ Workover

Period Ending 90-03-22

Contractor & Rig No.

Alberta Gold Rig #3

Rept No.

9

Production Casing

140

mm. at

2266 m.

PSTD

Surface

m

Tubing

None

mm. at

m.

Equipment, Packers, and Depths:

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil					
Water	28.1				
Acid					
Other					

Work performed: 0800 hrs. Rig out service rig, pump and tank, mud lines, steam lines and drain and rig out boiler. Lay down service rig and move same off well. Drove and pulled rig to highway and drove it into camp at Fort Liard. Hauled mud tank, BOP carrier, Fuel storage tank and rig matting from lease to highway on a bed truck (Stacked at road). Dug out around well head with back hoe. Cut off casings 2m below ground level and welded donut between 340mm casing and 140mm casing. Welded cap on 140mm casing. Welded 60.3mm riser with well name plate on it to 2.5m above ground level. Filled in cellar. Secured the leased at 1900 hrs.

Day Cost 23,180.00

Cost to Date:

130,115.00

Supervisor in Charge

Al Underdahl

A.P.E. No.:

Amount

03-21- WED 9:37AM

P. 02

MAR-21-90 WED 9:41 LIARD VALLEY BAND

P. 02



Daily Completion and/or Workover Report

Well Name:

Sun Nettle C-07

☐ Completion ☐ Workover

Period Ending 90-03-21

Contractor & Rig No. Alberta Gold Rig #3

Rept. No. 8

Production Casing 140 mm at 2265 m. PSTD Surface m. Tubing None mm at m.

Equipment, Packers, and Depths: Model "D" packer at 1928.5m. 60.3mm stinger in the packer swaged to 73mm with a 73mm Baker tubing bridge plug set at 1933.0m and the tubing cut off at 1930.3m. Guiberson bridge plug set in the 140mm casing at 1925m.

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil					
Water	28.1				
Acid					
Other					

Work performed: 0800 hrs. Well pressure 0 kpa. Held safety and procedure meeting. Ran in the hole with 120mm bit, 140mm casing scraper and 73mm tubing to top of cut off tubing at 1933m. Worked two tight spots on the trip in the hole. Circulate to clean hole 1 hr. (Cuttings of cement and slivers of dried drilling mud in a frothy fluid in the returns). Displaced hole with 130 cu.m of inhibited fresh water (Uronox Mep 42b). Pressure tested Model "D" packer and casing to 14000 kpa./15min. Pulled out of the hole laying down 73mm tubing. Rig up Norwest Shooters and ran 140mm gauge ring junk basket to 1929m. Ran Guiberson 140mm "Charger" bridge plug and set at 1925m. Fill hole with 2.6 cu.m of diesel fuel and pressure test bridge plug to 14000 kpa./15min. Dump bail cement plug 1925m-1915m (2 runs). Run surface cement plug 20.0m-10.0m. Rig out Norwest Shooters line truck. Secured the well for the night at 2400 hrs. Boiler left running.

Day Cost 25,169.00

Cost to Date: 106,935.00

Supervisor in Charge Al Underdahl

A.P.E. No.: Amount



Telecopy Request

To Dave Scratch
Name
C.O.G.L.A.
Location - Company Name or Suncor Office
9-1-873-8707
Telecopier Number

90-03-19 21
Date (Y/M/D)

73
No. of pages including this one

From Norm Savard
Name
Suncor Inc.
Division
Secretary

Department Acct. No.
Group
269-8729
Local

269-0936

If you do not receive all pages, or have any problem with receiving please call (403)

Form 0-0000 Rev. 00-07

Tools (73mm bridge plug, running tool tubing gauge and related tools). 1600 hrs. Tools arrived. Ran in the hole with 73mm gauge ring to 1944m. Ran 73mm bridge plug and set at 1933m (wire line measurement). Pressure test the plug down the tubing. Pressure built to 14000 kpa. and let go dropping to 0 kpa. Pumped 3 cu.m of KCL water down the tubing at .5 cu.m/m at 0 kpa pressure (well on vacuum). Pulled on the tubing and it came loose with a 30000 Dan. pull. Pulled 25 stands of tubing out of the hole (tubing pulling free). Fill hole down the annulus with 6.6 cu.m of KCL water. Pressure up casing to 7000 kpa. Pressure is the same on the casing and tubing and holding. Pulled the rest of the way out of the hole with the tubing. Evidence of drilling mud on the outside of the tubing (Tubing cut at "Jet cutter" depth at 1930m). Ran in the hole with 140mm gauge ring junk basket to obstruction at 1385m. Junk basket had dried drilling mud and pieces of dried cement in it. Drained pump lines and secured the well for the night at 2400 hrs. Boiler left running.

Day Cost	23,232.00	Cost to Date:	81,766.00
Supervisor in Charge	Al Underdahl	A.F.E. No.	Amount

03-19- MON 11:14AM

P. 02



Daily Completion and/or Workover Report

Well Name:

Sun Netla C-07

☐ Completion ☐ Workover

Period Ending 90-03-19 Contractor & Rig No. Alberta Gold Rig #3

Rept. No. 6

Production Casing 140 mm. at 2265 m. PBTO 2103.4 m. Tubing 73 mm. at 1939 m.

Equipment, Packers, and Depths: Model "D" packer set at 1938.5m

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil				1951.3m-1962.9m	Slave Point
Water	18.5				
Acid					
Other					

Work performed: 0800 hrs. Well pressures T-5000 kpa. C-0 kpa. Held safety and procedure meeting. Start up service rig. Try to pump down tubing, couldn't (ice plug in well head). Rocked tubing pressure pumping and bleeding of till plug let go. Pumped KCL water down the tubing. Well pressured up after .5 cu.m pumped. Tubing pressure at 14000 kpa. and not bleeding off. No pressure on the casing. Ran in with chisel point tool on sinker bars, well tubing clean to packer at 1942m. (Suspect debris from tubing cutter has lodged in the stinger to the packer and plugged it off. Ran chemical cutter and cut the tubing at 1930.3m. Try to pull tubing (Couldn't it is still stuck). Ran free point. Tubing stuck at 1530m. Drain pump and lines. Secured the well for the night at 1900 hrs.

Day Cost 14,380.00

Cost to Date: 58,534.00

Supervisor in Charge Al Underdahl

A.F.E. No.: Amount

03-19- MON 11:14AM

P. 03

NEXT 13-19 MON 10:29 LINKED VALLEY BAND

P. 03



Daily Completion and/or Workover Report

Well Name:

☐ Completion ☐ Workover

Sun Netla C-07

Period Ending 90-03-18

Contractor & Rig No.

Alberta Gold Rig #3

Rept. No.

5

Production Casing

140

mm. at 2256 m.

PBTD

2103.4m

m.

Tubing

73

mm. at 1939 m.

Equipment, Packers, and Depths:

Model "D" packer set at 1938.5m

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil				1951.3m-1962.9m	Slave Point
Water	18.0				
Acid					
Other					

Work performed: 0800 hrs. Well pressure T-7000 kpa. C-0 kpa. Start up and service rig. Held safety and procedure meeting. Rig up rig and equipment. Pumped 6 cu.m of KCL water down the tubing (well on vacuum). Remove well head (stud bolts corroded, had to cut 6 of them off to get them out). Install riser and TIW valve in the top of the tubing. Pick up dog nut to check if tubing was landed in compression. Reset dog nut, install BOPs. Pressure test flange, pipe rams, annular preventor and all lines to 1500 kpa. and 21000 kpa./10min. had to tighten flange and re-tighten several times before it held pressure. Pick up tubing to string weight and try to unseat from Model "D" packer (Couldn't). Well has 2000 kpa pressure on the tubing. Pumped 6 cu.m of KCL water down the tubing to kill it (tubing on vacuum). Rig in Norwest shooters, cut off tubing at 1930.0m with a "Jet" tubing cutter (wire line depth). Pipe not free. Pulled end worked tubing trying to get it free. Re-plank back of service rig and pulled up to 40000 Dan but pipe not moving. Secured the well for the night at 1900 hrs. Ordered out chemical cutter from Grande Prairie.

Day Cost

11,480.00

Cost to Date:

44,154.00

Supervisor in Charge

Al Underdahl

A.P.S. No.:

Amount

03-19-

MON 11:15AM

P. 04

HUNTLEY HUN ARISON LIND VALLEY SAND

P. 114



Daily Completion and/or Workover Report

Well Name:

Sun Netla C-07

☐ Completion ☐ Workover

Period Ending 90-03-17

Contractor & Rig No. Alberta Gold Rig #3

Rept. No. 4

Production Casing 140 mm. at 2266. m. PBTD 2103.4m m. Tubing 73 mm. at 1939 m.

Equipment, Packers, and Depths: Model "D" packer set at 1938.5m

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil				1951.3m-1962.9m	Slave Point
Water	6.0				
Acid					
Other					

Work performed: 0800 hrs.-1200 hrs. Waiting on Service rig. 1200 hrs.

Service rig arrived at camp. Proceed to bush road, chain up and moved Service rig to location with the assistance of a D-6 and D-7 Cat. Well head pressure T-6400 kpa. C-0 kpa. Bolt BOPs to stump and test blind rams 1500 kpa & 21000 kpa./10min. Spot rig and rig up and raise the pack. Mixed up 750 kg. KCL in fresh water in the rig tank. Secured the well for the night at 2000 hrs.

Day Cost 8,350.00

Cost to Date: 32,674.00

Supervisor in Charge Al Underdahl

A.P.E. No.:

Amount

03-19- MON 11:16AM

P. 05



Daily Completion and/or Workover Report

Well Name:

Sun Netla C-07

☐ Completion ☐ Workover

Period Ending 90-03-15 Contractor & Rig No. Alberta Gold Rig #3 Rept. No. 3

Production Casing 140 mm. at 2266 m. PBTD 2103.4m m. Tubing 73 mm. at 939.5.

Equipment, Packers, and Depths: Model "D" packer set at 1938.5m

Fluid Summary	Total Used	Recovered	Left To Recover	Perforations	Formation
Oil				1951.3m-1962.9m	Slave Point
Water	6.0				
Acid					
Other					

Work performed: 0800 hrs. Well pressure T-8000 kpa. C-0 kpa. Waiting on Service Rig. Rig being repaired in Fort Nelson. Mixed 1000 kg. KCL in 28 cu.m of fresh water (3%). Rig in pump and lines and pressure tested to 21000 kpa. Pumped 6 cu.m of KCL water down the tubing at .3 cu.m/min. Pressure dropped steadily to 0 kpa. Well on vacuum in the tubing and annulus. Secured the well for the night at 1600 hrs.

Day Cost 4,550.00

Cost to Date: 24,324.00

Supervisor in Charge Al Underdahl

A.P.E. No.: Amount



Daily Completion and/or Workover Report

Well Name

Sud Netla C-07

☐ Completion ☒ Workover

Period Ending

90-03-14

Contractor & Rig No.

Alberta Gold Rig

Rpt. No.

2

Production Casing

39.7

mm

2265.93

PBD

2103.40

m

Tubing

730

mm

1939.74

Equipment, Packers, and Depths:

- 139.7 mm x 73.0 mm EUE Baker Model D-2 permanent packer @ 1938.53 mKB

Fluid Summary	Total Used	Recovered	Lost To Recover	Perforations	Formation
Oil				1951.30 - 1962.90 mKB	Slave Point
Water					
Acid					
Other					

Work performed:

0700hrs - Moved Twilight Wireline into location. SITP 7880 kpa SICP 2300 kpa. Rigged up Twilight. Made up 1 rad in with a 54.4 mm gauge line to top of Otis 'B' lock plug. 750.8 m Made up 2 rad in with Knobs Knockout prong. Broke out plugs to equalize. SITP 7880 kpa. Made up 1 rad in 63.5 mm extended log core. Otis GR pulling tool. Latched onto plug & jarred out of the hole.

1530hrs - Rigged out Twilight Wireline. SITP 7880 kpa SICP 2300 kpa. Bled annulus gas head off to 0 kpa No fluid to surface.

1700hrs - Secured well; SDFN

Day Cost

6224

Cost to Date:

19,774

Supervisor in Charge

Jed Wood

774-1517

A.P.E. No.:

Amgini



Daily Completion and/or Workover Report

Well Name: Sud Netla C-07 ☐ Completion ☒ Workover

Perfor. Ending 90-03-13 Contractor & Rig No. Alberta Gold Rig # Rept. No. 1
Production Casing 139.7 mm. 2265.43 PSTD 2103.40 m. Tubing 130 mm. 1931.74

Equipment, Packers, and Cables:
139.7 ... 73.0 ... RUE Raker Model D-5 permanent packers 1938.53 m.

Fluid Summary	Trnl Used	Recovered	Lost To Receiver	Perforations	Formation
Oil				<u>1951.30 - 1963.9</u> m.	<u>Slave Point</u>
Water					
Acid					
Other					

were performing 0900 hrs. Drive in & checked location. Waited on Service Rig. Notified Service Rig motor ready. Returned to Fort Nelson.
Moved in Service Rig equip? spotted on location
0600 hrs. SDFN

Day Cost 13,550 Lost to Date: 13,550
Supervisor in Charge Jed Wood 774-1517 A.P.S. No.: Amount