

N. W. T. BIG ISLAND

NO. 2 C-38

Drilling Authority No.

Date Issued

WELL NAME N.W.T. Big Island No. 2 C-11

FIELD Wildcat

Area: Great Slave Lake

LOCATION: Unit C

Section 36

Grid 60-10-116-45

Latitude 61°07' N.

Longitude 116°52' W.

From Established Reference Marker

Rig Release Date: 18-4-53

Status D & A

Information Release Date 18-4-55

CHANGE OF NAME:

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

POOR COPY

#14

NOTICE OF INTENTION TO ABANDON WELL

Notice is hereby given, as required by Section 80 of the P.A.M.G. Regulations, dated May 9, 1949, that it is the intention on or about the day of April 21st 1953, to abandon well No. 2 ^{N.W.T. Big Island} ~~Elevation~~

feet, located on Big Island
Lat. 116 degrees 52 min. West
Long. 61 degrees 7 min. North

registered in the name of W.L. Brintnell of Edmonton

The reasons for abandonment are:-

No commercial oil or gas encountered

Oil, gas and water were encountered as follows and will be shut off as outlined below:-

Oil:-

Gas:-

none

Water:-

Water rose ^{none} to (How near the surface)

The depth drilled to was 1426 feet and the following casings were inserted:

Diameter	Depth	Weight	Free, set or	The intention is to
	feet		cemented	withdraw
				feet

none

Abandonment plugs:

Plug # 1 - 675 ft to 700 ft - eight sacks of cement

Plug # 2 - 325 ft. to 25 ft - twenty-five sacks of cement

Signature

Title

W. L. Brintnell

Date April 21, 1953. 19

Address

7 Hangar, Municipal Airport
Edmonton, Alberta.

POOR COPY

NOTICE OF INTENTION TO ABANDON A WELL

Notice is hereby given, as required by Section 80 of the P.&N.C. Regulations, dated May 9, 1949, that it is the intention on or about the day of April 21st 1953, to abandon well No. 2 ^{N.W. 2. Big Island # 2} Elevation

feet, located on Big Island
Lat. 116 degrees 52 min. West
Long. 61 degrees 7 min. North

registered in the name of W.L. Brintnell of Edmonton

The reasons for abandonment are:-

No commercial oil or gas encountered

Oil, gas and water were encountered as follows and will be shut off as outlined below:-

Oil:-

Gas:- none

Water:- none
Water rose to (How near the surface)

The depth drilled to was 1426 feet and the following casings were inserted:

Diameter	Depth	Height	Wasc, set or	The intention is to
	feet		cemented	withdraw
				feet

Abandonment plugs:

Plug # 1 - 675 ft to 700 ft - eight sacks of cement
Plug # 2 - 325 ft. to 25 ft - twenty-five sacks of cement

Signature

W. L. Brintnell

Title

Date April 21, 1953. 19

Address # 7 Hangar, Municipal Airport
Edmonton, Alberta.

POOR COPY

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

Notice to be forwarded, in triplicate, to the Supervisory Petroleum Engineer, at least 15 days before work is commenced.

March 25, 1953.

Sir:

Notice is hereby given as required by Section 57 (1) of the Petroleum and Natural Gas Regulations, dated 9th May, 1949, that it is our intention to begin boring a well on P & N G Permit No. on or about the 8th day of April 1953 Standing in the name of W. L. Brintnell and located Big Island

(give below distances from boundaries)
Lat. 116 degrees - 52 minutes West
Long. 61 degrees - 7 minutes North

Being

The well shall be known as N.W.T. Big Island No. 2 Well

We intend using the following equipment:-

Type of drilling rig: Failing J 55

XXX or use

Size	Weight	Thread	Brand	New XXXX	Depth	How Set
7"	23 lb.	8			250'	cemented

We expect to encounter the following oil, water and gas horizons and propose to take care of them as follows, and will inform you of any changes in this programme.

Slave Point Limestone approximately 440 ft.

Presquile Dolomite approximately 650 ft.

The well is to be drilled by Company or Contractor. If contractor give name.

The officers in charge of the operations will be:

General Petroleum Ltd

Mr. J. Rutledge

At the well

of the Company

Name of Permittee W. L. Brintnell

Signature

W. L. Brintnell

Approved

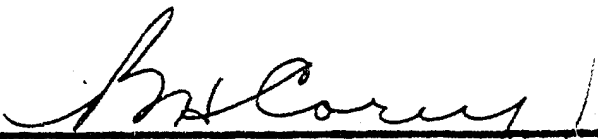
Title

[Signature]
A/ Supervisory Petroleum Engineer

PROGRESS REPORT
on the
DRILLING, CORING, TESTING AND ABANDONMENT
of the
NORTHWEST TERRITORIES BIG ISLAND NO. 2 WELL
located at
LATITUDE $61^{\circ} 7'$ North - LONGITUDE $116^{\circ} 52'$ West
—— Big Island, Great Slave Lake, N.W.T. ——
Unit C Sec. 38 Grid 610': $116^{\circ} 45'$

Compiled by: B. E. Smith

Approved by:


E. H. Corey - Production Manager.

Written: JUNE 8 - 1953

Typed:
June, 1953

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SCOPE

This report covers the drilling, coring, testing and abandonment of the Northwest Territories Big Island No. 2 Well located at Latitude $61^{\circ} 7'$ North; Longitude $116^{\circ} 52'$ West, near the South-West shore of Big Island in Great Slave Lake, N.W.T.

All available information has been included, from the time the Well was spudded until it had been drilled, cored, drill stem tested and finally abandoned in the Fitzgerald (Silurian) limestone.

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DATA PERTINENT TO DRILLING, CORING, TESTING & ABANDONMENT

2

Name of Company: Northwest Territories Petroleum Limited
Name of Well: Northwest Territories Big Island No. 2
Location: Latitude: 61° 7' North
Longitude: 116° 52' West
Elevation: Kelly Bushing: 530' (estimated using 519' as the elevation of Great Slave Lake)

Drilling Contractor: General Petroleum of Canada Limited
Rig #F-55 - J. E. Routledge - toolpush

Protective Casing: Landed at 103'
96.9', 7", 20.5#, 8 Rd.Thd., Rge. 2, J-55, Stewart & Lloyd's casing. No cement was used and all casing was pulled before abandonment. Run only as protection against boulder cave-in.

Geological Markers:

Core & Samples
(M.L. Yakimishyn)

Hay River Shale	200'
Simpson Shale	280' ?
Simpson Limestone & Shale series	640'
Slave Point Limestone	679'
Presqu'ile Limestone	905'
Pine Point Limestone	1080'
Methy Limestone	1270 ?
Fitzgerald Limestone	1370'

Cored Intervals:
681 - 722 Diamond cores.
935 - 985 Diamond cores.

Formation Tests:
DST#1 - 670 - 684. Slave Point Limestone. Valve open 60 minutes. Rec. 60' drilling mud.
DST#2 - 830 - 845. Slave Point Limestone. Valve open 60 minutes. No recovery.
DST#3 - 836 - 857. Slave Point Limestone. Valve open 60 minutes. Rec. 20' drilling mud.

Total Depth: 1426'

Cement Plugs:
Plug #1 675' - 700' with 8 sacks cement.
Plug #2 Surface - 25' with 25 sacks cement.

Date Well Spudded: April 8, 1953

Date Drilling Completed:
April 18, 1953

Date Well Abandoned: April 18, 1953

DAILY PROGRESS REPORT

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Date	From	To	Footage	Remarks
Apr. 4-7	-	-	-	Skidded camp, rig, et. to new location. Elasted and pits in muskeg and finished rigging up.
Apr. 8	-	103	103	Dug rathole and set in rathole casing. Picked up 9" OSC-3 bit and spudded the Well in at 1:00 P.M. Drilled ahead, PULLING out pipe after 8 1/4 hours at 103'. Rigged up and ran casing as follows: Started rigging to run casing 10:00 P.M. Casing started in hole 10:30 P.M. Casing all in 2:00 A.M.
Apr. 9	103	460	357	Ran 96.9', 7", 20.5#, 8 Rd.Thd., Rge. 2, J-55, Stewart & Lloyd casing. No casing shoe, collar, scratchers or centralizers were run and 2 joints were welded by oxy-acetylene. The belled lower end of the casing was landed 103' below kelly bushing, which was 7.10' above ground level. The casing was not cemented and was run only as a protective string to prevent boulder cave-in. Picked up 6 1/8" OSC bit, ran in and drilled ahead with same size and type bits for 18 3/4 hours. Bits were changed after 11 1/4 hours at 243'.
Apr. 10	460	684	224	Drilled ahead with 6 1/8" OSC bits for 11 1/4 hours, changing bits after 13 3/4 hours at 580' and pulling out pipe after 5 hours at 681'. Laid back bit, picked up core barrel and 6 1/8" Truco Diamond Core bit. Ran in and cored ahead for 1/2 hour to 684'. Pulled pipe, recovering one core and for 3' cut, 3' were recovered or 100%. Broke down coring equipment, made up tester, ran in, seated packer and opened tool for test. <u>TEST #1 -- 670 - 684 -- Slave Point Limestone</u> Hole diameter from 103' 6 1/8" O.D. of Packer Rubber 6" Length of anchor below packer 14 ft. Valve open 60 Minutes Tester shut in -- Minutes There was a good initial air blow when the tool was opened dying immediately thereafter. The mud level in the casing dropped when the tool was first opened and held when packer reset. When the drill pipe was pulled, 60 ft. (0.45 bbls.) of drilling mud were recovered. The test was considered to be mechanically satisfactory and was performed by General

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DAILY PROGRESS REPORT (CONT'D)

Date	From	To	Footage	Remarks
<u>Apr. 10</u>	(cont'd)			Petrolaums (Dowell Rental) with J. E. Routledge operating.
<u>Apr. 11</u>	684	738	54	Broke down tester, picked up core barrel and 6 1/8" Truco Diamond Core bit and ran in. On bottom coring for 3 3/4 hours to 722'. Pulled pipe, handled core and broke down coring equipment. Three cores were handled and for 38' cut, 38' were recovered or 100%. Picked up new 6 1/8" OSC bit, ran in and drilled ahead for 2 1/2 hours.
<u>Apr. 12</u>	738	845	107	Drilling with 6 1/8" OSC bits continued for 18 1/2 hours. Bits were changed after 13 1/2 hours at 803' and pipe was pulled and bit laid back after 7 1/2 hours at 845'. Picked up tester and began running in same.
<u>Apr. 13</u>	845	879	54	Ran to bottom, set packer and opened tool for test.

TEST #2 - 830 - 845 - Slave Point Limestone

Hole diameter from 103'	6 1/8"
O.D. of Packer Rubber	6"
Length of anchor below packer	15 ft.
Valve open	60 Minutes.
Tester shut in	— Minutes.

There was a good initial air blow when the tool was opened dying immediately thereafter. The mud level in the casing did not drop. When the drill pipe was pulled, there was no fluid recovered. The test was considered to be mechanically satisfactory and was performed by General Petrolaums (Dowell Rental) with J. E. Routledge operating.

Broke down tester, picked up 6 1/8" OSC bit, ran in and drilled ahead for 2 hours to 857'. Pulled out pipe, laid back bit, made up tester and ran in. Seated packer, and opened tool for test.

TEST #3 - 836 - 857 - Slave Point Limestone

Hole diameter from 103'	6 1/8"
O.D. of Packer Rubber	6"
Length of anchor below packer	21 ft.
Valve open	60 Minutes.
Tester shut in	— Minutes.

DAILY PROGRESS REPORT (CONT'D)

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<u>Date</u>	<u>From</u>	<u>To</u>	<u>Feet:in</u>	<u>Remarks</u>
<u>Apr. 13</u>	cont'd			Test #3 -- 836 -857 Slave Point Limestone cont'd There was a good initial blow when the tool was opened, followed by a faint air blow which died in 15 minutes. The mud level in the casing did not drop. When the drill pipe was pulled, 20 ft. (0.15 bbls.) of drilling mud were recovered. The test was considered to be mechanically satisfactory and was performed by General Petroleum (Dowell Rental) with J. E. Routledge operating. Broke down tester, made up 6 1/8" OSC bit and ran in. On bottom drilling for 7 hours.
<u>Apr. 14</u>	899	1001	102	On bottom drilling with 6 1/8" OSC bit for 5 1/2 hours. Pulled out pipe, laid back bit and made up core barrel and 6 1/8" Truco Diamond Core head after 12 1/2 hours at 935'. Cored ahead, pulling pipe and laying back coring equipment after 4 1/4 hours at 985'. Two cores were pulled and for 50' cut 50' were recovered or 100%. Picked up new 6 1/8" OSC bit, ran in and drilled ahead for 2 1/4 hours.
<u>Apr. 15</u>	1001	1122	121	On bottom drilling with 6 1/8" bits for 20 hours. Bits were changed to same size and type after 12 1/2 hours at 1068' and to same size GMS after 9 3/4 hours at 1122'.
<u>Apr. 16</u>	1122	1242	120	On bottom drilling with 6 1/8" GMS bits for 19 1/4 hours. Bits were changed after 25 1/2 hours at 1319'.
<u>Apr. 17</u>	1242	1396	154	Drilling with 6 1/8" bits continued for 22 hours, changing to same size OSC after 16 3/4 hours at 1322'.
<u>Apr. 18</u>	1396	1426	30	Drilled ahead with 6 1/8" OSC bit for 5 hours, pulling pipe and laying back bit after 14 hours at 1426'. Pulled out protective casing string, ran in with open end pipe and set cement plugs as follows: Plug #1 700 - 675 displaced 8 sacks cement with 4.2 bbls water. Plug #2 25' - Surface - set 25 sacks cement. Pipe out at 12:00 noon. Began tearing out rig.

DAILY PROGRESS REPORT (CONT'D)

<u>Date</u>	<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Remarks</u>
Apr. 19 - <u>23</u>	—	—	—	Moved rig and all equipment to west southerly harbour point of Big Island. Constructed fire guards and covered equipment. Crews moved off Big Island and travelled to Kay River where they obtained transportation to their homes in the N.W.T. or back to the Calgary and Edmonton offices of General Petroleum and Superior Oils.

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MUD RECORD

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1953 Date	Depth	Mud Wt. No./U.S. Gal.	Visc.	Gel.	H ₂ O Loss cc.	Filter Cake 1/32"	pH	Additives
Apr. 8	35	8.0	45	47	--	--	-	
Apr. 8	103	8.0	45	47	--	--	-	
Apr. 9	165	--	37	-	--	--	-	250# Mud (?)
Apr. 9	243	8.0	36	39	--	--	-	5 SRS Drill - Gel
Apr. 9	460	8.5	39	40	--	--	-	
Apr. 10	580	8.5	36	41	--	--	-	
Apr. 10	681	8.4	36	-	--	--	-	
Apr. 10	684	8.5	38	40	--	--	-	
Apr. 11	689	8.6	35	-	--	--	-	
Apr. 11	700	8.5	36	38	--	--	-	
Apr. 11	738	8.5	36	37	--	2	-	
Apr. 12	786	8.0	35	37	--	--	-	
Apr. 12	817	8.0	36	38	--	--	-	
Apr. 12	845	8.2	36	38	--	--	-	
Apr. 13	853	8.2	36	38	--	--	-	
Apr. 13	857	--	-	-	--	--	-	
Apr. 13	899	8.4	37	39	--	--	-	
Apr. 14	935	8.5	37	39	--	--	-	
Apr. 14	961	--	-	-	--	--	-	
Apr. 14	1001	8.6	42	44	--	--	-	
Apr. 15	1053	8.6	42	44	--	--	-	
Apr. 15	1085	8.8	43	45	--	--	-	1 bbl. Water
Apr. 15	1122	8.6	40	42	12	2	-	2 bbls. Water
Apr. 16	1166	8.6	40	41	--	--	-	
Apr. 16	1212	8.7	50	52	--	--	-	
Apr. 16	1242	8.6	41	43	13	2	-	3 bbls. Water 10# Carbonyl

DIAMOND CORE RECORD

Date	Ft. From	Ft. To	Ft. Cut	Ft. Recovered	Percent- age
Apr. 10	681	684	3	3	100
Apr. 11	684	689	5	5	100
Apr. 11	689	697	8	8	100
Apr. 11	697	722	25	25	100
Apr. 14	935	960	25	25	100
Apr. 14	960	985	25	25	100

Total Footage Cored 91'

Total Footage Recovered 91'

Percentage Recovery 100%

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<u>SAMPLE DESCRIPTION:-</u>	V. L. Yakimishyn
0 - 50 -	No Samples taken.
50 - 200 -	Lake beach sands and gravels; variable limestones, quartz and pebbles; traces pyrite, shales; one quartz chip containing seams of gold.
	TOP HAY RIVER SHALE - 200'
200 - 280 -	Shale - greenish-gray, calcareous, micro-micaceous, scattered traces pyrite.
	TOP SIMPSON SHALE - 280' ?
280 - 300 -	Shale - greenish-gray to gray, calcareous, micro-micaceous, hard in part, traces of pyrite.
300 - 380 -	As above.
380 - 400 -	As above. Shale having black speckled inclusions.
400 - 480 -	Shale - light greenish-gray to gray to light brownish gray, calcareous, hard in part, traces pyrite.
480 - 510 -	As above, with little shale - dark brown to brownish black.
510 - 570 -	Shale - greenish-gray to gray, calcareous, hard in part with shale - dirty dark brown, slightly calcareous, brittle in part, waxy-like.
570 - 580 -	Shale - brown to brownish-black and dark grey, slightly calcareous to non-calcareous, micro-micaceous in part with very little light-purplish shale, trace mineralization (galena).
580 - 610 -	Shale - greenish-gray to grey, calcareous with shale - as above; trace pyrite.
610 - 620 -	As above. Trace grayish-green limestone.
620 - 640 -	As above. Trace buff limestone.
	TOP SIMPSON LIMESTONE & SHALE SERIES - 640'
640 - 679 -	Shale as above with greenish-gray to buff, argillaceous, dense limestone, trace pyrite.
	TOP SLAVE POINT LIMESTONE - 679'

SAMPLE DESCRIPTIONS: (cont'd)

679 - 681 - Limestone - buff to brown, dense, appears oil stained.

CORE # 1 - 681 - 684 - Rec. 3'.

3' Limestone - brown irregularly mixed with buff, dense, having trace very poor pin point porosity, oil saturated; H_2S odor, scattered stylitic partings.

CORE # 2 - 684 - 689 - Rec. 5'

5' Limestone - brown, irregularly mixed with buff, dense, micro-crystalline, oil stained, H_2S odor, few stylitic partings.

CORE # 3 - 689 - 697 - Rec. 8'

8' Limestone - brown mixed with some buff, micro-crystalline, dense, H_2S odor; few stylitic partings.

CORE # 4 - 697 - 722 - Rec. 25'

25' Limestone - brown, mixed with traces buff micro-crystalline, dense, H_2S odor; few stylitic partings.

722 - 730 -

Limestone - brown to buff, micro-crystalline, dense (much cavities).

730 - 770 -

Limestone - as above; trace secondary calcite, evidence of black, stylitic partings, brachiopods.

770 - 810 -

Limestone - buff, dense with as above, having an increasing amount of secondary calcite.

810 - 820 -

As above with some grayish-buff limestone.

820 - 870 -

Limestone - brown to buff, dense, containing much secondary calcite with some grayish-buff, dense limestone, evidence of stylitic partings; trace green shale; trace porosity and oil staining.

870 - 880 -

Limestone - brown to buff, dense containing much calcite with some grayish-buff limestone, evidence of green stylitic partings; trace brownish-black shale, little pyrite inclusions.

880 - 890 -

Limestone - dark brown to brown and buff, fine, micro-crystalline, in part; containing secondary calcite, evidence of green stylitic partings; trace dark brown to almost black shale and gray limestones; trace pyrite.

SAMPLE DESCRIPTIONS: (cont'd)

890 - 905 - Limestone - predominantly buff with little greyish-buff, dense, fine, micro-crystalline with little of as above.

TOP PRESQUILLE LIMESTONE - 905'

905 - 935 - Limestone - creamish-buff, argillaceous, dense, lithographic (containing oolite eggs); some evidence of stylitic partings; no porosity or oil staining.

CORE # 5 - 935 - 960-Rec. 25'

25' Limestone - creamish-buff, dense, argillaceous, lithographic (containing oolite eggs?); some tight fractures scattered throughout core; few stylitic partings.

CORE # 6 - 960 - 985-Rec. 26'

25' - As above.

985 - 990 - Limestone - creamish-buff to white, dense, lithographic, argillaceous.

990 - 1020 - Limestone - creamish-buff to white and brown, lithographic, dense, argillaceous having some fair porosity appearing water washed.

1020 - 1070 - As above, becoming predominantly brown.

1070 - 1080 - Much cavings.

TOP PINE POINT LIMESTONE - 1080'

1080 - 1100 - Limestone - dark brown to dark chocolate brown, dense, argillaceous, micro-crystalline in part.

1100 - 1110 - Limestone - as above, becoming almost black in part, containing some fossils, evidence of stylitic partings, trace pyrite.

1110 - 1130 - As above with limestone - brown to buff, dense.

1130 - 1160 - As above (trace gypsite?).

1160 - 1170 - Limestone - greyish-buff to cream, argillaceous, dense, with some as above.

1170 - 1190 - Limestone - greyish-buff to cream, argillaceous, dense, chalky in part (clastic?); traces poor porosity, trace calcite.

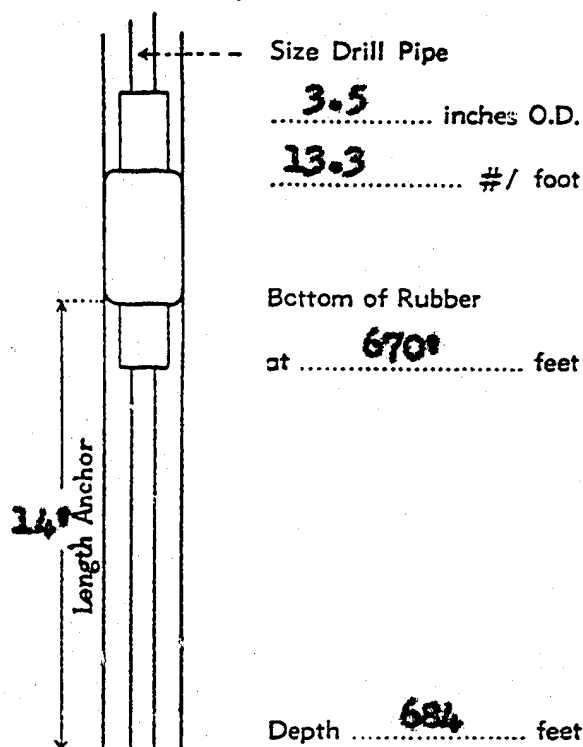
SAMPLE DESCRIPTIONS: (cont'd) -

- 1190 - 1220 - Limestone - dark brown to dark chocolate, dense, argillaceous, contains fossil material, evidence of stylitic partings; trace pyrite with some as above.
- 1220 - 1270 - Limestone - brown to dark chocolate brown, dense, argillaceous, evidence of stylitic partings, coarse in part; brownish-black shales. Samples very poor.
- 1270 - 1290 - Limestone - brown and dark brown to dark chocolate brown to almost black, dense, argillaceous, evidence of black stylitic partings; some black calcareous shales (much cavings), salts.
- 1290 - 1300 - As above.
- 1300 - 1320 - Limestone - as above with limestone - light brown, tight, soft, argillaceous, dolomitic.
- 1320 - 1330 - Limestone - brown and dark chocolate brown to almost black, argillaceous, dense, evidence of black, stylitic partings; some black calcareous shales.
- 1330 - 1350 - As above - trace variable shales and limestone.
- 1350 - 1380 - Limestone - dark buff to brown, tight, soft in part, argillaceous with as above.
- 1380 - 1390 - As above - becoming somewhat darker.
- 1390 - 1426 - As above - trace apple green and gray shales; trace pyrite.
- T. D. - 1426'

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Drill Stem Test Report

Date April 10th, 1953
 Name of Well NORTHWEST TERRITORIES BIG ISLAND # 2 Test No. 1
 Testing Company General Petroleum (Dowell Rental) Operator J. E. Bartledge



O.D. of Packer Rubber 6 Size Choke 1/2"
 Type of Packer: Anchor Type X Hookwall
 Formation Tested Slave Point Limestone
 Depth of Well 684'
 Zone Tested: From 670' To 684'
 Time Waiting on Tester Nil
 Mud: API Viscosity 38 Gel. 40 Weight 8.5
 Time Tester started in hole 8:15 P.M.
 " " On Bottom 10:00 P.M.
 " " Opened 10:00 P.M.
 " " Closed 11:00 P.M.
 " " Pulled Loose 11:00 P.M.
 " " Out of Hole 1:00 A.M.

Weight: Set on Packer 8 Thousand Lbs.; To Pull Packer Loose 9 Thousand Lbs.
 No. Lines 6 Size Line 3/4"
 When tool was opened: Was blow noticeable, Yes X No ; Air Displaced, Yes X No
 Did mud level drop in casing; Yes On first time open No Hold when reset
 Gas Flow: nil Thousand cf/day. Measured with Pitot tube by

Estimated by

Size riser: 2 inches, I.D.; Was flare lit, Yes No X; Length of flame feet
 Total fluid in drill pipe: 2 Stands 60 Feet 0.45 Bbls.
 Oil in drill pipe { Gassy } Stands Feet Bbls.
 { Dead }
 Mud in drill pipe { Gassy } drilling mud Stands 60 Feet 0.45 Bbls.
 { Dead }
 Water in drill pipe { Gassy } Stands Feet Bbls.
 { Dead }

Note: Samples of Oil and Water must be taken.

Samples sent to Calgary Office By M. L. Yakinishyn
 Water: Salty, Sulphur, Brackish, Fresh. (Cross out terms that do not apply.)

Remarks: Good initial air blow died immediately after tool opened. Reset packer.
 Put additional remarks or other information on back of sheet.

Present at test: C. Spornitz, M. L. Yakinishyn, J. E. Bartledge

Do you consider that test was satisfactory? Yes X No

Does chart show normal operation of tester? Yes None run No

Pressure on chart (Hydrostatic) before tester opened No bomb run p.s.i.

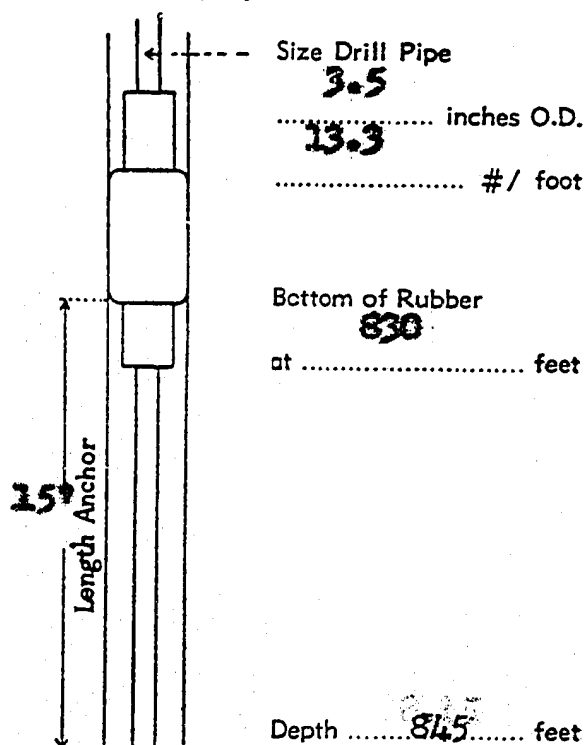
" " " (Flowing) with tester open p.s.i. (shut in) p.s.i.

Is chart attached: Yes No Who has it

Drill Stem Test Report

April 13th, 1953

Name of Well **NORTHWEST TERRITORIES BIG ISLAND # 2** Date **April 13th, 1953**
 Testing Company **General Petroleum (Dowall Rental)** Test No. **2**
 Operator **J. E. Routledge**



O.D. of Packer Rubber **6** Size Choke **1/2"**
 Type of Packer: Anchor Type **X** Hookwall
 Formation Tested **Slave Point Limestone**
 Depth of Well **845**
 Zone Tested: From **830** To **845**
 Time Waiting on Tester **N11**
 Mud: API Viscosity **38** Gel. **40** Weight **8.5**
 Time Tester started in hole **11:00 P.M.**
 " " On Bottom **1:00 A.M.**
 " " Opened **1:00 A.M.**
 " " Closed **2:00 A.M.**
 " " Pulled Loose **2:00 A.M.**
 " " Out of Hole **4:00 A.M.**

Weight: Set on Packer **8** Thousand Lbs.; To Pull Packer Loose **9** Thousand Lbs.
 No. Lines **6** Size Line **3/4"**
 When tool was opened: Was blow noticeable, Yes **X** No **X**; Air Displaced, Yes **X** No **X**
 Did mud level drop in casing; Yes **X** No **X**
 Gas Flow: **N11** Thousand cf/day. Measured with Pitot tube by **N11**

Estimated by **N11**
 Size riser: **2** inches, I.D.; Was flare lit, Yes **X** No **X**; Length of flame **N11** feet
 Total fluid in drill pipe: **N11** Stands **N11** Feet **N11** Bbls.
 Oil in drill pipe { Gassy } Stands **N11** Feet **N11** Bbls.
 { Dead }
 Mud in drill pipe { Gassy } Stands **N11** Feet **N11** Bbls.
 { Dead }
 Water in drill pipe { Gassy } Stands **N11** Feet **N11** Bbls.
 { Dead }

Note: Samples of Oil and Water must be taken.

Samples sent to **N11** By **N11**

Water: Salty, Sulphur, Brackish, Fresh. (Cross out terms that do not apply.)

Remarks: **Initial air blow, died immediately.**

Put additional remarks or other information on back of sheet.

Present at test: **M. L. Yakimishyn, J. Routledge, D. Weber.**

Do you consider that test was satisfactory? Yes **X** No **X**

Does chart show normal operation of tester? Yes **None run.** No **X**

Pressure on chart (Hydrostatic) before tester opened **No bomb run.** p.s.i.

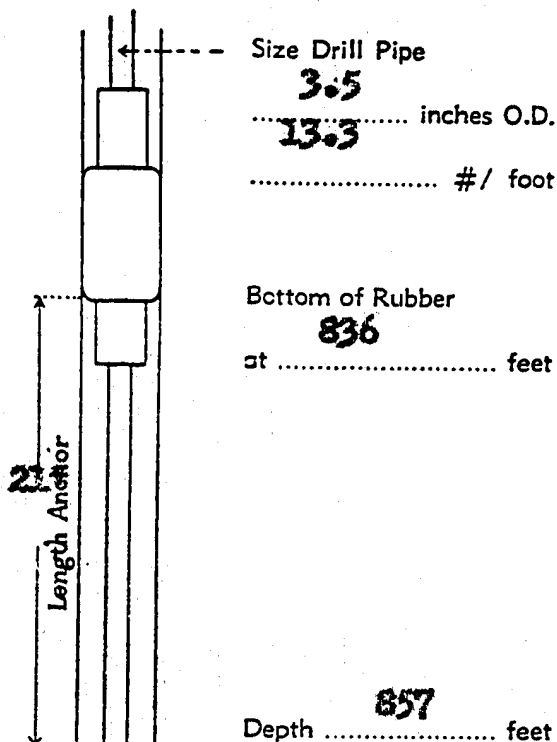
" " (Flowing) with tester open **N11** p.s.i. (shut in) **N11** p.s.i.

Is chart attached: Yes **X** No **X** Who has it **N11**

Drill Stem Test Report

April 13th, 1953

Name of Well **NORTHWEST TERRITORIES BIG ISLAND # 2** Date **3**
General Petroleum (Dowell Rental) Test No. **J. E. Routledge**
 Testing Company Operator **6** Size Choke **1/2"**



O.D. of Packer Rubber **X** Size Choke **1/2"**
 Type of Packer: Anchor Type **Slave Point Limestone** Hookwall
 Formation Tested **857**
 Depth of Well **836** To **857**
 Zone Tested: From **836** To **857**
 Time Waiting on Tester **N11**
 Mud: API Viscosity **38** Gel. **40** Weight **8.5**
 Time Tester started in hole **12:00 Noon**
 " " On Bottom **1:30 P.M.**
 " " Opened **1:30 P.M.**
 " " Closed **2:30 P.M.**
 " " Pulled Loose **2:30 P.M.**
 " " Out of Hole **3:30 P.M.**

Weight: Set on Packer **8** Thousand Lbs.; To Pull Packer Loose **9** Thousand Lbs.
 No. Lines **6** Size Line **3/4"**
 When tool was opened: Was blow noticeable, Yes **X** No **X**; Air Displaced, Yes **X** No **X**
 Did mud level drop in casing; Yes **X** No **X**
 Gas Flow: **X** Thousand cf/day. Measured with Pitot tube by **X**

Estimated by **X**
 Size riser: **2** inches, I.D.; Was flare lit, Yes **X** No **X**; Length of flame **20** feet
 Total fluid in drill pipe: **2/3** Stands **20** Feet **0.15** Bbls.
 Oil in drill pipe { Gassy } Stands **20** Feet **0.15** Bbls.
 Mud in drill pipe { Dead } **Drilling mud** Stands **20** Feet **0.15** Bbls.
 Water in drill pipe { Gassy } Stands **20** Feet **0.15** Bbls.

Note: Samples of Oil and Water must be taken.

Samples sent to **X** By **X**

Water: Salty, Sulphur, Brackish, Fresh. (Cross out terms that do not apply.)

Remarks: **Initial air blow followed by very faint blow, dying in 15 Minutes.**

Put additional remarks or other information on back of sheet.

Present at test: **M. L. Yakinishyn, C. Spornitz, J. E. Routledge.**

Do you consider that test was satisfactory? Yes **X** No **X**

Does chart show normal operation of tester? Yes **None run** No **X**

Pressure on chart (Hydrostatic) before tester opened **No bomb run** p.s.i.

" " (Flowing) with tester open **X** p.s.i. (shut in) **X** p.s.i.

Is chart attached: Yes **X** No **X** Who has it **X**

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

10568 - 114th Street, Edmonton, Alberta
Phone 256242706 Centre Street N., Calgary, Alberta
Phone 76149

15 JUL 1953 16A

WATER ANALYSIS REPORT

Field North West Territories Well No. N.W.T. Big Island # 2
 Operator New Superior Gils of Canada Ltd. Location Unsurveyed
 Sampled by _____ Date rec'd June 9th 1953
 Formation Slave Point Line Depths 670'-684' How Sampled D.S.T.
 Other pertinent data D.S.T. # 1 Sample of Test Fluid. No free water. Mod

Analyzed by Chemical & Geological Labs. Ltd. Cal. Date June 14th 1953 Lab. No. C-151

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO ₄	Cl	CO ₃	HCO ₃	OH	H ₂ S
382	Trace	12		377	249		165		

MILLIGRAM EQUIVALENTS

16.59		0.99		7.85	7.02		2.71		
-------	--	------	--	------	------	--	------	--	--

MILLIGRAM EQUIVALENTS IN PERCENT

47.18		2.82		22.33	19.97		7.70		
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Total Solids in Parts
per Million

By evaporation
 After ignition
 Calculated 1101

Specific Gravity
 Observed pH 7 to 8

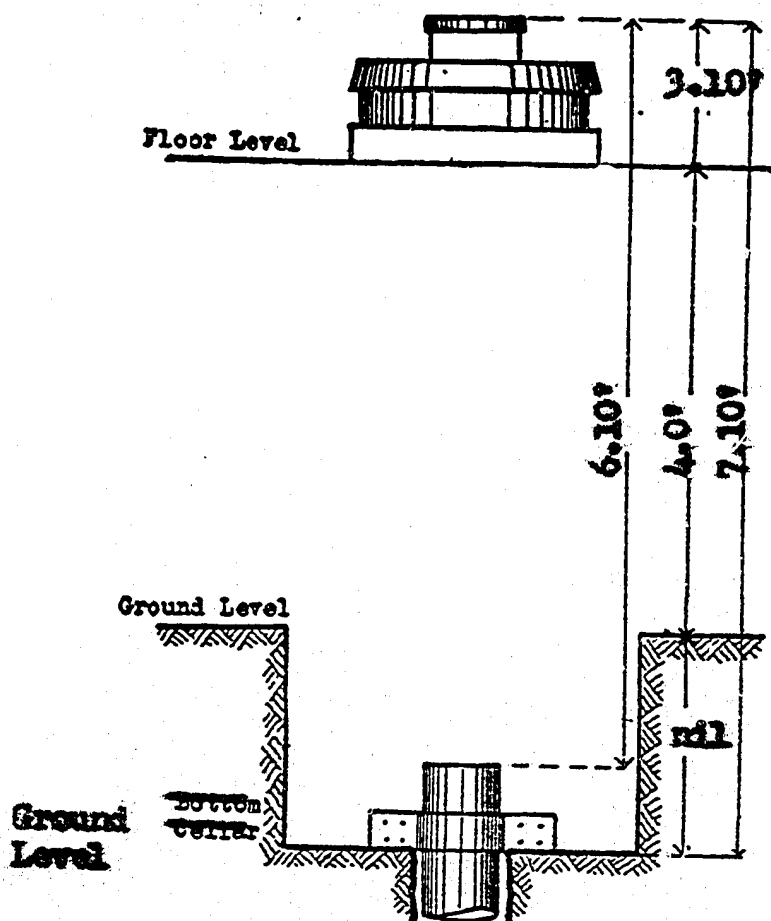
Properties of Reaction in
Percent

Primary salinity 84.60
 Secondary salinity 0
 Primary alkalinity 9.76
 Secondary alkalinity 5.64
 Chloride salinity 47.21
 Sulfate salinity 37.79

Remarks and conclusions Water for analysis squeezed from Hyd by use of filter press.
Not sufficient water for complete analysis. Believe water to be make up water used
in preparing drilling fluid.

Casing Report

NAME OF WELL **NORTHWEST TERRITORIES BIG ISLAND # 2** DATE **April 8th, 1953**



Make of Casing **Stewart & Lloyds**

Size **7"** Weight **20.5#** No. of Threads **8**

Short or Long Threads Grade **J-55** Range **2**

Make and Type of Casing Shoe **Belled end** Welded on?

Make and Type of Collar Welded on?

Centralizers **N11** at

Welding—Electric Acetylene **X**

No. of Joints Welded **2**

Welding Co. **General Pete** Operator **D. Weber**

Scratchers at **N11**

Calcium Chloride Added

Aquagel Added

Cementing Co. **Not cemented.**

Cementer Helper

Drive Bushing Elevation **530 (est.)**

Distance Drive Bushing to Ground Level **7.10** Ft.

Total Amount of Casing Used (including Landing Joint) **96.90** Ft.

Distance Top of Casing Landed Below Kelly Drive Bushing **6.10** Ft.

Total Amount of Casing Left in Hole **96.90** Ft.

Depth of Shoe Below Drive Bushing **103.00** Ft.

Time Rigging up to Run Casing **1 1/2** Hrs. Time Casing Started in Hole **10:30** P. M.

Time Running Casing **3 1/2** Hrs. Time Started Circulating M.

Time Stopped Circulating M. Time Started Cementing M.

Time Cement in Pipe M. Time Plug on Bottom M.

Plug Measured into ft. by Wire Line or displaced with Bbls.

Bumped on Collar or Baffle Plate with P.S.I.

Number of Sacks Cement Used Sacks: Hours Cement Set Hrs.

Method of Cementing Cement Returns? Yes or No.

Casing Landed in Clamps, Casinghead, Casing Suspender (State Make)

REMARKS:

Casing was used as protective string. Landed casing on 9" shoulder to prevent boulders from caving in.

Engineer/Toolpusher **J. E. Bartledge.**

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
103	105	4:40	4:57	17		
105	110	4:57	5:15	18		
110	115	5:15	5:27	12		
115	120	5:27	5:40	13		
120	125	5:40	5:53	13		Connection
125	130	6:06	6:20	12		
130	135	6:20	6:32	12		
135	140	6:32	6:42	10		
140	145	6:42	6:53	11		
145	150	6:53	7:08	15		
150	155	7:08	7:22	14		Connection
155	160	7:46	7:55	9		
160	165	7:55	8:06	11		
165	170	8:06	8:58	52		
170	175	8:58	9:33	35		
175	180	9:33	9:55	22		
180	185	9:55	10:23	28		Connection
185	190	10:23	10:39	16		
190	195	10:39	10:55	16		
195	200	10:55	11:09	14		
200	205	11:09	11:33	24		
205	210	11:33	12:00	27		
210	213	12:00	12:15	15		Connection
213	215	12:28	12:40	12		
215	220	12:40	1:05	25		
220	225	1:05	1:30	25		

Time Drilling and/or Coring Record

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DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
225	230	1:30	1:55	25		
230	235	1:55	2:25	30		
235	240	2:25	2:55	30		
240	243	2:55	3:10	15		
243	245	4:15	4:20	5		Trip -- Repair -- Kelly Hose
245	250	4:20	4:35	15		
250	255	4:35	4:48	13		
255	260	4:48	5:01	13		
260	265	5:01	5:14	13		
265	270	5:14	5:23	9		
270	274	5:23	5:28	5		Connection
274	275	5:40	5:42	2		
275	280	5:42	5:50	8		
280	285	5:50	5:56	6		
285	290	5:56	6:04	8		
290	295	6:04	6:11	7		
295	300	6:11	6:17	6		
300	304	6:17	6:22	5		Connection
304	305	6:30	6:32	2		
305	310	6:32	6:39	7		
310	315	6:39	6:47	8		
315	320	6:47	6:55	8		
320	325	6:55	7:04	9		
325	330	7:04	7:13	9		
330	335	7:13	7:22	9		Connection
335	340	7:31	7:38	7		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Ft. Dr.	REMARKS
From	To	From	To			
340	345	7:38	7:45	7		
345	350	7:45	7:52	7		
350	355	7:52	8:01	9		
355	360	8:01	8:10	9		
360	365	8:10	8:20	10		Connection
365	370	8:30	8:39	9		
370	375	8:39	8:48	9		
375	380	8:48	8:57	9		
380	385	8:57	9:07	10		
385	390	9:07	9:16	9		
390	395	9:16	9:25	9		Connection
395	400	9:37	9:45	8		
400	405	9:45	9:55	10		
405	410	9:55	10:04	9		
410	415	10:04	10:14	10		
415	420	10:14	10:25	11		
420	425	10:25	10:34	9		Connection
425	430	10:46	10:54	8		
430	435	10:54	11:01	7		
435	440	11:01	11:09	8		
440	445	11:09	11:16	7		
445	450	11:16	11:23	7		
450	455	11:23	11:30	7		
455	457	11:30	11:33	3		Connection
457	460	11:43	11:47	4		
460	465	11:47	11:54	7		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
465	470	11:54	12:00	6		
470	475	12:00	12:07	7		
475	480	12:07	12:14	7		
480	485	12:14	12:22	8		
485	490	12:22	12:55	33		Connection
490	495	12:55	1:04	9		
495	500	1:04	1:15	11		
500	505	1:15	1:30	15		
505	510	1:30	1:56	26		
510	515	1:56	2:20	24		
515	520	2:20	2:49	29		Connection
520	525	2:49	3:05	16		
525	530	3:05	3:18	13		
530	535	3:18	3:32	14		
535	540	3:32	3:48	16		
540	545	3:48	4:06	18		
545	550	4:06	4:36	30		
550	555	4:36	4:50	14		
555	560	4:50	5:04	14		
560	565	5:04	5:17	13		
565	570	5:17	5:36	19		
570	575	5:36	5:57	21		
575	580	5:57	6:09	12		Trip
580	585	8:00	8:10	10		
585	590	8:10	8:21	11		
590	595	8:21	8:32	11		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
595	600	8:32	8:42	10		
600	601	8:42	8:45	3		
601	602	8:45	8:48	3		
602	603	8:48	8:51	3		
603	604	8:51	8:54	3		
604	605	8:54	8:56	2		
605	606	8:56	8:58	2		
606	607	8:58	9:00	2		
607	608	9:00	9:02	2		
608	609	9:02	9:04	2		
609	610	9:04	9:06	2		Connection
610	611	9:17	9:19	2		
611	612	9:19	9:21	2		
612	613	9:21	9:23	2		
613	614	9:23	9:25	2		
614	615	9:25	9:27	2		
615	616	9:27	9:29	2		
616	617	9:29	9:31	2		
617	618	9:31	9:33	2		
618	619	9:33	9:35	2		
619	620	9:35	9:36	1		
620	621	9:36	9:38	2		
621	622	9:38	9:40	2		
622	623	9:40	9:42	2		
623	624	9:42	9:44	2		
624	625	9:44	9:46	2		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
625	626	9:46	9:48	2		
626	627	9:48	9:51	3		
627	628	9:51	9:53	2		
628	629	9:53	9:56	3		
629	630	9:56	9:59	3		
630	631	9:59	10:03	4		
631	632	10:03	10:07	4		
632	633	10:07	10:10	3		
633	634	10:10	10:12	2		
634	635	10:12	10:15	3		
635	636	10:15	10:19	4		
636	637	10:19	10:23	4		
637	638	10:23	10:29	6		
638	639	10:29	10:34	5		
639	640	10:34	10:37	3		Connection - circulating hole
640	641	10:54	10:56	2		
641	642	10:56	10:58	2		
642	643	10:58	11:00	2		
643	644	11:00	11:02	2		
644	645	11:02	11:04	2		
645	646	11:04	11:06	2		
646	647	11:06	11:08	2		
647	648	11:08	11:11	3		
648	649	11:11	11:14	3		
649	650	11:14	11:16	2		
650	651	11:16	11:19	3		

Time Drilling and/or Coring Record

24

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
651	652	11:19	11:22	3		
652	653	11:22	11:24	2		
653	654	11:24	11:26	2		
654	655	11:26	11:29	3		
655	656	11:29	11:32	3		
656	657	11:32	11:35	3		
657	658	11:35	11:37	2		
658	659	11:37	11:41	4		
659	660	11:41	11:44	3		
660	661	11:44	11:46	2		
661	662	11:46	11:49	3		
662	663	11:49	11:52	3		
663	664	11:52	11:54	2		
664	665	11:54	11:56	2		
665	666	11:56	11:59	3		
666	667	11:59	12:02	3		
667	668	12:02	12:05	3		
668	669	12:05	12:08	3		
669	670	12:08	12:11	3		Connection
670	671	12:21	12:24	3		
671	672	12:24	12:28	4		
672	673	12:28	12:32	4		
673	674	12:32	12:35	3		
674	675	12:35	12:40	5		
675	676	12:40	12:44	4		
676	677	12:44	12:46	2		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
677	678	12:46	12:50	4		
678	679	12:50	12:53	3		
679	680	12:53	12:57	4		
680	681	12:57	1:01	4		Trip
681	682	4:30	4:42	12		Core # 1
682	683	4:42	4:50	8		
683	684	4:50	4:57	7		Trip
684	685	6:10	6:17	7		Core # 2
685	686	6:17	6:26	9		
686	687	6:26	6:37	11		
687	688	6:37	6:48	11		
688	689	6:48	6:59	11		Trip
689	690	10:09	10:17	8		Core # 3
690	691	10:17	10:26	10		
691	692	10:26	10:37	11		
692	693	10:37	10:48	11		
693	694	10:48	10:59	11		
694	695	10:59	11:08	9		
695	696	11:08	11:16	8		
696	697	11:16	11:22	6		Trip
697	698	3:42	3:51	9		
698	699	3:51	4:00	9		
699	700	4:00	4:09	9		
700	701	4:09	4:17	8		Connection
701	702	4:28	4:35	7		
702	703	4:35	4:43	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
703	704	4:43	4:50	7		
704	705	4:50	4:58	8		
705	706	4:58	5:07	9		
706	707	5:07	5:15	8		
707	708	5:15	5:22	7		
708	709	5:22	5:30	8		
709	710	5:30	5:36	6		
710	711	5:38	5:47	9		
711	712	5:47	5:55	8		
712	713	5:55	6:03	8		
713	714	6:03	6:11	8		
714	715	6:11	6:19	8		
715	716	6:19	6:28	9		
716	717	6:28	6:36	8		
717	718	6:46	6:46	10		
718	719	6:46	6:55	9		
719	720	6:55	7:04	9		
720	721	7:04	7:13	9		
721	722	7:13	7:22	9		Trip
722	723	9:40	9:48	8		Drilling
723	724	9:48	9:58	10		
724	725	9:58	10:08	10		
725	726	10:08	10:16	8		
726	727	10:16	10:23	7		
727	728	10:23	10:30	7		
728	729	10:30	10:38	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
729	730	10:52	11:00	8		Connection
730	731	11:00	11:09	9		
731	732	11:09	11:17	8		
732	733	11:17	11:23	6		
733	734	11:23	11:29	6		
734	735	11:29	11:35	6		
735	736	11:35	11:42	7		
736	737	11:42	11:48	6		
737	738	11:48	11:54	6		
738	739	11:54	12:02	8		
739	740	12:02	12:07	5		
740	741	12:07	12:14	7		
741	742	12:14	12:19	5		
742	743	12:19	12:26	7		
743	744	12:26	12:37	11		
744	745	12:37	12:47	10		
745	746	12:47	12:57	10		
746	747	12:57	1:10	13		
747	748	1:10	1:21	11		
748	749	1:21	1:32	11		
749	750	1:32	1:42	10		
750	751	1:42	1:53	11		
751	752	1:53	2:03	10		
752	753	2:03	2:14	11		
753	754	2:14	2:25	11		
754	755	2:25	2:35	10		

Time Drilling and/or Coring Record

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DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
755	756	2:35	2:45	10		
756	757	2:45	2:57	12		
757	758	2:57	3:09	12		
758	759	3:09	3:19	10		
759	760	3:19	3:29	10		
760	761	3:29	3:38	9		Connection
761	762	3:59	4:10	11		
762	763	4:10	4:19	9		
763	764	4:19	4:28	9		
764	765	4:28	4:36	8		
765	766	4:36	4:45	9		
766	767	4:45	4:56	11		
767	768	4:56	5:06	10		
768	769	5:06	5:17	11		
769	770	5:17	5:27	10		
770	771	5:27	5:36	9		
771	772	5:36	5:45	9		
772	773	5:45	5:54	9		
773	774	5:54	6:04	10		
774	775	6:04	6:14	10		
775	776	6:14	6:25	11		
776	777	6:25	6:36	11		
777	778	6:36	6:45	9		
778	779	6:45	6:55	10		
779	780	6:55	7:05	10		
780	781	7:05	7:14	9		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
781	782	7:14	7:23	9		
782	783	7:23	7:33	10		
783	784	7:33	7:43	10		
784	785	7:43	7:53	10		
785	786	7:53	8:02	9		
786	787	8:02	8:12	10		
787	788	8:12	8:24	12		
788	789	8:24	8:32	8		
789	790	8:32	8:43	11		
790	791	8:43	8:54	11		Connection
791	792	9:09	9:18	9		
792	793	9:18	9:27	9		
793	794	9:27	9:36	9		
794	795	9:36	9:45	9		
795	796	9:45	9:55	10		
796	797	9:55	10:04	9		
797	798	10:04	10:12	8		
798	799	10:12	10:21	9		
799	800	10:21	10:30	9		
800	801	10:30	10:40	10		
801	802	10:40	10:50	10		
802	803	10:50	10:59	9		
803	804	1:40	1:50	10		
804	805	1:50	2:00	10		
805	806	2:00	2:10	10		
806	807	2:10	2:20	10		

Time Drilling and/or Coring Record

30

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
807	808	2:20	2:30	10		
808	809	2:30	2:40	10		
809	810	2:40	2:53	13		
810	811	2:53	3:02	9		
811	812	3:02	3:11	9		
812	813	3:11	3:19	8		
813	814	3:19	3:29	10		
814	815	3:29	3:38	9		
815	816	3:38	3:50	12		
816	817	3:50	4:00	10		
817	818	4:00	4:10	10		
818	819	4:10	4:19	9		
819	820	4:19	4:28	9		
820	821	4:28	4:40	12		
821	822	4:40	4:50	10		Connection
822	823	4:57	5:07	10		
823	824	5:07	5:15	8		
824	825	5:15	5:25	10		
825	826	5:25	5:35	10		
826	827	5:35	5:45	10		
827	828	5:45	5:57	12		
828	829	5:57	6:08	11		
829	830	6:08	6:17	9		
830	831	6:17	6:26	9		
831	832	6:26	6:35	9		
832	833	6:36	6:45	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
833	834	6:45	6:55	10		
834	835	6:55	7:05	10		
835	836	7:05	7:15	10		
836	837	7:15	7:27	12		
837	838	7:27	7:36	9		
838	839	7:36	7:46	10		
839	840	7:46	7:58	12		
840	841	7:58	8:11	13		
841	842	8:11	8:21	10		
842	843	8:21	8:30	9		
843	844	8:30	8:42	12		
844	845	8:42	9:03	12		
845	846	6:45	6:52	7		
846	847	6:52	7:00	8		
847	848	7:00	7:10	10		
848	849	7:10	7:20	10		
849	850	7:20	7:29	9		
850	851	7:29	7:38	9		
851	852	7:38	7:47	9		
852	853	7:47	7:57	10		
853	854	7:57	8:05	8		Connection
854	855	8:11	8:19	8		
855	856	8:19	8:29	10		
856	857	8:29	8:38	9		Trip and Test
857	858	5:01	5:12	11		
858	859	5:12	5:22	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
859	860	5:22	5:31	9		
860	861	5:31	5:41	10		
861	862	5:41	5:51	10		
862	863	5:51	5:58	7		
863	864	5:58	6:09	11		
864	865	6:09	6:18	9		
865	866	6:18	6:27	9		
866	867	6:27	6:36	9		
867	868	6:36	6:45	9		
868	869	6:45	6:55	10		
869	870	6:55	7:05	10		
870	871	7:05	7:15	10		
871	872	7:15	7:24	9		
872	873	7:24	7:32	8		
873	874	7:32	7:42	10		
874	875	7:42	7:55	13		
875	876	7:55	8:06	11		
876	877	8:06	8:16	10		
877	878	8:16	8:24	8		
878	879	8:24	8:34	10		
879	880	8:34	8:43	9		
880	881	8:43	8:52	9		
881	882	8:52	9:01	9		
882	883	9:01	9:10	9		Connection
883	884	9:19	9:27	8		
884	885	9:27	9:35	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
885	886	9:35	9:45	10		
886	887	9:45	9:55	10		
887	888	9:55	10:05	10		
888	889	10:05	10:14	9		
889	890	10:14	10:23	9		
890	891	12:23	12:32	9		
891	892	10:32	10:41	9		
892	893	10:41	10:50	9		
893	894	10:50	11:00	10		
894	895	11:00	11:10	10		
895	896	11:10	11:20	10		
896	897	11:20	11:31	11		
897	898	11:31	11:41	10		
898	899	11:41	11:51	10		
899	900	11:51	12:01	10		
900	901	12:01	12:12	11		
901	902	12:12	12:24	12		
902	903	12:24	12:34	10		
903	904	12:34	12:45	11		
904	905	12:45	12:55	10		
905	906	12:55	1:05	10		
906	907	1:05	1:15	10		
907	908	1:15	1:25	10		
908	909	1:25	1:35	10		
909	910	1:35	1:43	8		
910	911	1:43	1:53	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
911	912	1:53	2:01	8		
912	913	2:01	2:09	8		
913	914	2:09	2:18	9		
914	915	2:18	2:27	9		Connection
915	916	2:28	2:39	11		
916	917	2:39	2:51	12		
917	918	2:51	3:02	11		
918	919	3:02	3:13	11		
919	920	3:13	3:21	8		
920	921	3:21	3:26	5		
921	922	3:26	3:30	4		
922	923	3:30	3:36	6		
923	924	3:36	3:44	8		
924	925	3:44	3:50	6		
925	926	3:50	3:57	7		
926	927	3:57	4:08	11		
927	928	4:08	4:16	8		
928	929	4:16	4:23	7		
929	930	4:23	4:30	7		
930	931	4:30	4:38	8		
931	932	4:38	4:45	7		
932	933	4:45	4:53	8		
933	934	4:53	5:06	13		
934	935	5:06	5:19	13		Trip
935	936	9:22	9:34	12		Core # 5
936	937	9:34	9:42	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
937	938	9:42	9:50	8		
938	939	9:50	9:56	6		
939	940	9:56	10:03	7		
940	941	10:03	10:09	6		
941	942	10:09	10:16	7		
942	943	10:16	10:22	6		
943	944	10:22	10:28	6		Connection
944	945	10:43	10:49	6		
945	946	10:49	10:55	6		
946	947	10:55	11:01	6		
947	948	11:01	11:07	6		
948	949	11:07	11:12	5		
949	950	11:12	11:20	8		
950	951	11:20	11:27	7		
951	952	11:27	11:33	6		
952	953	11:33	11:39	6		
953	954	11:39	11:46	7		
954	955	11:46	11:53	7		
955	956	11:53	11:59	6		
956	957	11:59	12:05	6		
957	958	12:05	12:13	8		
958	959	12:13	12:20	7		
959	960	12:20	12:29	9		Trip
960	961	3:50	3:58	8		Core # 6
961	962	3:58	4:06	8		
962	963	4:06	4:14	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
963	964	4:14	4:23	9		
964	965	4:23	4:31	8		
965	966	4:31	4:40	9		
966	967	4:40	4:49	9		
967	968	4:49	4:56	7		
968	969	4:56	5:02	6		
969	970	5:02	5:08	6		
970	971	5:08	5:15	7		
971	972	5:15	5:23	8		
972	973	5:23	5:31	8		
973	974	5:31	5:40	9		Connection
974	975	5:50	5:58	8		
975	976	5:58	6:05	7		
976	977	6:05	6:12	7		
977	978	6:12	6:19	7		
978	979	6:19	6:28	9		
979	980	6:28	6:35	7		
980	981	6:35	6:42	7		
981	982	6:42	6:49	7		
982	983	6:49	6:56	7		
983	984	6:56	7:04	8		
984	985	7:04	7:12	8		Trip
985	986	9:54	10:02	8		
986	987	10:02	10:10	8		
987	988	10:10	10:17	7		
988	989	10:17	10:25	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
989	990	10:25	10:33	8		
990	991	10:33	10:41	8		
991	992	10:41	10:51	10		
992	993	10:51	10:57	6		
993	994	10:57	11:03	6		
994	995	11:03	11:08	5		
995	996	11:08	11:16	8		
996	997	11:16	11:23	7		
997	998	11:23	11:32	9		
998	999	11:32	11:41	9		
999	1000	11:41	11:51	10		
1000	1001	11:51	12:00	9		
1001	1002	12:00	12:07	7		
1002	1003	12:07	12:14	7		
1003	1004	12:14	12:21	7		
1004	1005	12:21	12:29	8		Connection
1005	1006	12:35	12:43	8		
1006	1007	12:43	12:51	8		
1007	1008	12:51	1:00	9		
1008	1009	1:00	1:09	9		
1009	1010	1:09	1:19	10		
1010	1011	1:19	1:29	10		
1011	1012	1:29	1:39	10		
1012	1013	1:39	1:51	12		
1013	1014	1:51	2:03	12		
1014	1015	2:03	2:13	10		

Time Drilling and/or Coring Record

38

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1015	1016	2:13	2:23	10		
1016	1017	2:23	2:32	9		
1017	1018	2:32	2:38	6		
1018	1019	2:38	2:44	6		
1019	1020	2:44	2:51	7		
1020	1021	2:51	2:59	8		
1021	1022	2:59	3:07	8		
1022	1023	3:07	3:14	7		
1023	1024	3:14	3:21	7		
1024	1025	3:21	3:29	8		
1025	1026	3:29	3:36	7		
1026	1027	3:36	3:44	8		
1027	1028	3:44	3:53	9		
1028	1029	3:53	4:02	9		
1029	1030	4:02	4:11	9		
1030	1031	4:11	4:20	9		
1031	1032	4:20	4:28	8		
1032	1033	4:28	4:36	8		
1033	1034	4:36	4:43	7		
1034	1035	4:43	4:51	8		
1035	1036	4:51	4:58	8		Connection
1036	1037	5:08	5:15	7		
1037	1038	5:15	5:24	9		
1038	1039	5:24	5:35	11		
1039	1040	5:35	5:46	11		
1040	1041	5:46	5:57	11		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1041	1042	5:57	6:07	10		
1042	1043	6:07	6:18	11		
1043	1044	6:18	6:28	10		
1044	1045	6:28	6:38	10		
1045	1046	6:38	6:47	9		
1046	1047	6:47	6:58	11		
1047	1048	6:58	7:09	11		
1048	1049	7:09	7:22	13		
1049	1050	7:22	7:32	10		
1050	1051	7:32	7:41	9		
1051	1052	7:41	7:51	10		
1052	1053	7:51	8:00	9		
1053	1054	8:00	8:10	10		
1054	1055	8:10	8:19	9		
1055	1056	8:19	8:27	8		
1056	1057	8:27	8:36	9		
1057	1058	8:36	8:45	9		
1058	1059	8:45	8:54	9		
1059	1060	8:54	9:02	8		
1060	1061	9:02	9:09	7		
1061	1062	9:09	9:15	6		
1062	1063	9:15	9:22	7		
1063	1064	9:22	9:28	6		
1064	1065	9:28	9:34	6		
1065	1066	9:34	9:45	11		Connection
1066	1067	9:58	10:06	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1067	1068	10:06	10:16	10		Trip
1068	1069	1:03	1:12	9		
1069	1070	1:12	1:23	11		
1070	1071	1:23	1:33	10		
1071	1072	1:33	1:43	10		
1072	1073	1:43	1:54	11		
1073	1074	1:54	2:05	11		
1074	1075	2:05	2:15	9		
1075	1076	2:14	2:24	10		
1076	1077	2:25	2:35	10		
1077	1078	2:35	2:45	10		
1078	1079	2:45	2:55	10		
1079	1080	2:55	3:05	10		
1080	1081	3:05	3:16	11		
1081	1082	3:16	3:26	10		
1082	1083	3:26	3:39	13		
1083	1084	3:39	3:52	13		
1084	1085	3:52	4:03	11		
1085	1086	4:03	4:15	12		
1086	1087	4:15	4:27	12		
1087	1088	4:27	4:39	12		
1088	1089	4:39	4:50	11		
1089	1090	4:50	5:01	11		
1090	1091	5:01	5:12	11		
1091	1092	5:12	5:24	12		
1092	1093	5:24	5:33	9		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1093	1094	5:33	5:45	12		
1094	1095	5:45	5:57	12		
1095	1096	5:57	6:08	11		
1096	1097	6:08	6:18	10		Connection
1097	1098	6:27	6:37	10		
1098	1099	6:37	6:47	10		
1099	1100	6:47	6:59	12		
1100	1101	6:59	7:12	13		
1101	1102	7:12	7:25	13		
1102	1103	7:25	7:40	15		
1103	1104	7:40	7:52	12		
1104	1105	7:52	8:03	11		
1105	1106	8:03	8:14	11		
1106	1107	8:14	8:25	11		
1107	1108	8:25	8:34	9		
1108	1109	8:34	8:44	10		
1109	1110	8:44	8:52	8		
1110	1111	8:52	9:01	9		
1111	1112	9:01	9:09	8		
1112	1113	9:09	9:15	9		
1113	1114	9:15	9:23	10		
1114	1115	9:23	9:33	10		
1115	1116	9:33	9:43	10		
1116	1117	9:43	9:53	10		
1117	1118	9:53	10:03	10		
1118	1119	10:03	10:15	7		

Time Drilling and/or Coring Record

42

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1119	1120	10:15	10:26	11		
1120	1121	10:26	10:36	10		
1121	1122	10:36	10:47	11		
1122	1123	1:02	1:10	8		
1123	1124	1:10	1:20	10		
1124	1125	1:20	1:30	10		
1125	1126	1:30	1:40	10		
1126	1127	1:40	1:50	10		
1127	1128	1:50	1:59	9		
1128	1129	1:59	2:08	9		Connection
1129	1130	2:15	2:24	9		
1130	1131	2:24	2:34	10		
1131	1132	2:34	2:44	10		
1132	1133	2:44	2:53	9		
1133	1134	2:53	3:02	9		
1134	1135	3:02	3:11	9		
1135	1136	3:11	3:20	9		
1136	1137	3:20	3:29	9		
1137	1138	3:29	3:38	9		
1138	1139	3:39	3:48	9		
1139	1140	3:48	3:58	10		
1140	1141	3:58	4:09	11		
1141	1142	4:09	4:18	9		
1142	1143	4:18	4:25	7		
1143	1144	4:25	4:34	9		
1144	1145	4:34	4:44	10		

Time Drilling and/or Coring Record

43

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1145	1146	4:44	4:54	10		
1146	1147	4:54	5:04	10		
1147	1148	5:04	5:14	10		
1148	1149	5:14	5:23	9		
1149	1150	5:23	5:32	9		
1150	1151	5:32	5:44	12		
1151	1152	5:44	5:53	9		
1152	1153	5:53	6:01	8		
1153	1154	6:01	6:09	8		
1154	1155	6:09	6:17	8		
1155	1156	6:17	6:25	8		
1156	1157	6:25	6:34	9		
1157	1158	6:34	6:43	9		
1158	1159	6:43	6:52	9		Connection
1159	1160	7:00	7:08	8		
1160	1161	7:08	7:16	8		
1161	1162	7:16	7:25	9		
1162	1163	7:25	7:34	9		
1163	1164	7:34	7:43	9		
1164	1165	7:43	7:53	10		
1165	1166	7:53	8:01	8		
1166	1167	8:01	8:10	9		
1167	1168	8:10	8:18	8		
1168	1169	8:18	8:27	9		
1169	1170	8:27	8:36	9		
1170	1171	8:36	8:52	16		

Time Drilling and/or Coring Record

44

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1171	1172	8:52	9:00	8		
1172	1173	9:00	9:08	8		
1173	1174	9:08	9:15	7		
1174	1175	9:15	9:22	7		
1175	1176	9:22	9:31	9		
1176	1177	9:31	9:41	10		
1177	1178	9:41	9:51	10		
1178	1179	9:51	10:00	9		
1179	1180	10:00	10:05	5		
1180	1181	10:05	10:10	5		
1181	1182	10:10	10:18	8		Circulating
1182	1183	10:37	10:45	8		
1183	1184	10:45	10:55	10		
1184	1185	10:55	11:04	9		
1185	1186	11:04	11:13	9		
1186	1187	11:13	11:21	8		
1187	1188	11:21	11:30	9		Connection and Rig Service
1188	1189	12:15	12:23	8		
1189	1190	12:23	12:30	7		
1190	1191	12:30	12:39	9		
1191	1192	12:39	12:48	9		
1192	1193	12:48	12:57	9		
1193	1194	12:57	1:07	10		
1194	1195	1:07	1:17	10		
1195	1196	1:17	1:27	10		
1196	1197	1:27	1:37	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1197	1198	1:37	1:47	10		
1198	1199	1:47	1:57	10		
1199	1200	1:57	2:07	10		
1200	1201	2:07	2:17	10		
1201	1202	2:17	2:27	10		
1202	1203	2:27	2:37	10		
1203	1204	2:37	2:47	10		
1204	1205	2:47	2:56	9		
1205	1206	2:56	3:04	8		
1206	1207	3:04	3:12	8		
1207	1208	3:12	3:21	9		
1208	1209	3:21	3:31	10		
1209	1210	3:31	3:42	11		
1210	1211	3:42	3:51	9		
1211	1212	3:51	4:01	10		
1212	1213	4:01	4:11	10		Rig Service - conditioning mat.
1213	1214	4:50	4:59	9		
1214	1215	4:59	5:07	8		
1215	1216	5:07	5:17	10		
1216	1217	5:17	5:27	10		
1217	1218	5:27	5:37	10		
1218	1219	5:37	5:48	11		Trip
1219	1220	8:26	8:32	6		
1220	1221	8:32	8:40	8		
1221	1222	8:40	8:50	10		
1222	1223	8:50	9:00	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1223	1224	9:00	9:11	11		
1224	1225	9:11	9:27	16		
1225	1226	9:27	9:41	14		
1226	1227	9:41	9:51	10		
1227	1228	9:51	9:59	8		
1228	1229	9:59	10:07	8		
1229	1230	10:07	10:14	7		
1230	1231	10:14	10:21	7		
1231	1232	10:21	10:28	7		
1232	1233	10:28	10:34	6		
1233	1234	10:34	10:41	7		
1234	1235	10:41	10:49	8		
1235	1236	10:49	11:07	8		
1236	1237	11:07	11:16	9		
1237	1238	11:16	11:24	8		
1238	1239	11:24	11:32	8		
1239	1240	11:32	11:38	6		
1240	1241	11:38	11:47	9		
1241	1242	11:47	11:56	9		
1242	1243	11:56	12:03	7		
1243	1244	12:03	12:08	5		
1244	1245	12:08	12:14	6		
1245	1246	12:14	12:20	6		
1246	1247	12:20	12:27	7		
1247	1248	12:27	12:34	7		
1248	1249	12:34	12:41	7		

Time Drilling and/or Coring Record

47

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1249	1250	12:41	12:48	7		
1250	1251	12:48	12:55	7		Connection
1251	1252	1:00	1:07	7		
1252	1253	1:07	1:15	8		
1253	1254	1:15	1:23	8		
1254	1255	1:23	1:31	8		
1255	1256	1:31	1:40	9		
1256	1257	1:40	1:49	9		
1257	1258	1:49	2:00	11		
1258	1259	2:00	2:10	10		
1259	1260	2:10	2:20	10		
1260	1261	2:20	2:30	10		
1261	1262	2:30	2:39	9		
1262	1263	2:39	2:49	10		
1263	1264	2:49	3:00	11		
1264	1265	3:00	3:11	11		
1265	1266	3:11	3:21	10		
1266	1267	3:21	3:31	10		
1267	1268	3:31	3:42	11		
1268	1269	3:42	3:52	10		
1269	1270	3:52	4:02	10		
1270	1271	4:02	4:12	10		
1271	1272	4:12	4:22	10		
1272	1273	4:22	4:33	11		
1273	1274	4:33	4:44	11		
1274	1275	4:44	4:55	11		

Time Drilling and/or Coring Record

48

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1275	1276	4:55	5:06	11		
1276	1277	5:06	5:16	10		
1277	1278	5:16	5:27	11		
1278	1279	5:27	5:36	9		
1279	1280	5:36	5:46	10		
1280	1281	5:46	5:55	9		Connection
1281	1282	6:10	6:18	8		
1282	1283	6:18	6:26	8		
1283	1284	6:26	6:33	7		
1284	1285	6:33	6:40	7		
1285	1286	6:40	6:49	9		
1286	1287	6:49	6:57	8		
1287	1288	6:57	7:05	8		
1288	1289	7:05	7:14	9		
1289	1290	7:14	7:23	9		
1290	1291	7:23	7:30	7		
1291	1292	7:30	7:39	9		
1292	1293	7:39	7:47	8		
1293	1294	7:47	7:56	9		
1294	1295	7:56	8:04	10		
1295	1296	8:04	8:13	9		
1296	1297	8:13	8:22	9		
1297	1298	8:22	8:31	9		
1298	1299	8:31	8:41	10		
1299	1300	8:41	8:52	11		
1300	1301	8:52	9:02	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1301	1302	9:02	9:13	11		
1302	1303	9:13	9:25	12		
1303	1304	9:25	9:38	13		
1304	1305	9:38	9:49	11		
1305	1306	9:49	9:59	10		
1306	1307	9:59	10:09	10		
1307	1308	10:09	10:14	10		
1308	1309	10:14	10:26	12		
1309	1310	10:26	10:36	10		
1310	1311	10:36	10:46	10		
1311	1312	10:46	10:57	11		Connection
1312	1313	11:20	11:30	10		
1313	1314	11:30	11:39	9		
1314	1315	11:39	11:50	11		
1315	1316	11:50	12:00	10		
1316	1317	12:00	12:09	9		
1317	1318	12:09	12:19	10		
1318	1319	12:19	12:29	10		
1319	1320	12:29	12:39	10		
1320	1321	12:39	12:49	10		
1321	1322	12:49	1:01	12		Tripping
1322	1323	3:04	3:10	6		
1323	1324	3:10	3:15	5		
1324	1325	3:15	3:21	6		
1325	1326	3:21	3:26	5		
1326	1327	3:26	3:32	6		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1327	1328	3:32	3:43	6		
1328	1329	3:43	3:46	5		
1329	1330	3:46	3:52	6		
1330	1331	3:52	3:57	5		
1331	1332	3:57	4:03	6		
1332	1333	4:03	4:09	6		
1333	1334	4:09	4:16	7		
1334	1335	4:16	4:21	6		
1335	1336	4:21	4:27	6		
1336	1337	4:27	4:33	6		
1337	1338	4:33	4:38	5		
1338	1339	4:38	4:44	6		
1339	1340	4:44	4:50	6		
1340	1341	4:50	4:55	5		
1341	1342	4:55	5:01	6		Connection
1342	1343	5:15	5:20	5		
1343	1344	5:20	5:26	6		
1344	1345	5:26	5:33	7		
1345	1346	5:33	5:40	7		
1347	1348	5:40	5:47	7		
1348	1349	5:47	5:53	6		
1349	1350	5:53	6:00	7		
1350	1351	6:00	6:07	7		
1350	1351	6:07	6:15	8		
1351	1352	6:15	6:22	7		
1352	1353	6:22	6:28	6		

Time Drilling and/or Coring Record

51

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1353	1354	6:28	6:36	8		
1354	1355	6:36	6:42	6		
1355	1356	6:42	6:49	7		
1356	1357	6:49	6:56	7		
1357	1358	6:56	7:04	8		
1358	1359	7:04	7:11	7		
1359	1360	7:11	7:18	7		
1360	1361	7:18	7:25	7		
1361	1362	7:25	7:32	7		
1362	1363	7:32	7:39	7		
1363	1364	7:39	7:46	7		
1364	1365	7:46	7:53	7		
1365	1366	7:53	8:00	7		
1366	1367	8:00	8:06	6		
1367	1368	8:06	8:13	7		
1368	1369	8:13	8:19	6		
1369	1370	8:19	8:26	7		
1370	1371	8:26	8:32	6		
1371	1372	8:32	8:38	6		
1372	1373	8:38	8:45	7		
1373	1374	8:45	8:51	6		Connection
1374	1375	8:52	9:04	12		
1375	1376	9:04	9:12	8		
1376	1377	9:12	9:20	8		
1377	1378	9:20	9:30	10		
1378	1379	9:30	9:39	9		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1379	1380	9:39	9:49	10		
1380	1381	9:49	9:58	9		
1381	1382	9:58	10:08	10		
1382	1383	10:08	10:17	9		
1383	1384	10:17	10:26	9		
1384	1385	10:26	10:34	8		
1385	1386	10:34	10:43	9		
1386	1387	10:43	10:52	9		
1387	1388	10:52	11:00	8		
1388	1389	11:00	11:09	9		
1389	1390	11:09	11:17	8		
1390	1391	11:17	11:25	8		
1391	1392	11:25	11:34	9		
1392	1393	11:34	11:42	8		
1393	1394	11:42	11:50	8		
1394	1395	11:50	11:59	9		
1395	1396	11:59	12:08	9		
1396	1397	12:08	12:17	9		
1397	1398	12:17	12:26	9		
1398	1399	12:26	12:34	8		
1399	1400	12:34	12:42	8		
1400	1401	12:42	12:51	9		
1401	1402	12:51	1:00	9		
1402	1403	1:00	1:09	9		
1403	1404	1:09	1:17	8		Connection
1404	1405	1:29	1:38	9		

D I S T R I B U T I O N

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