

N.W.T. BIG ISLAND

No. 1 B-69

Date Issued

From Established Reference Marker.

Information Release Date 26-3-60

CHANGE OF NAME:

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

61° 08'
116° 42'

#13

NOTICE OF INTENTION TO ABANDON A WELL

Notice is hereby given, as required by Section 80 of the P.&N.G.
Regulations, dated May 9, 1949, that it is the intention on or
about the day of April 3 1953, to abandon N.W.T. Big Island Well No. 1 Elevation

feet, located on Permit # 232
Latitude 61 degrees - .08 minutes North
Longitude 116 degrees - .42 minutes West

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:- none

Gas:- none

Water:-

Water rose to (How near the surface) None

The depth drilled to was 1340 feet and the following casings were
inserted:

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

Abandonment plugs: -

Plug # 1 - 540 ft to 565 ft - eight sacks of cement

Plug # 2 025 ft to 25 ft - twenty-five sacks of cement

Signature

W. L. Brintnell

Title

Date April 3

19 53

Address # 7 Hangar, Municipal Airport
Edmonton, Alberta.

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Address # 7 Hangar, Municipal Airport
Edmonton, Alberta.

NOTICE OF INTENTION TO BEGIN BORING OPERATIONS

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

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 C Permit No.

on or about the 23rd day of March 1953.

Standing in the name of W. L. Brintnell

and located on Permit No. 232

(Give below distances from boundaries)
Approximately at the center of Big Island (Correct description will be sent in later) - 116° 42' West
Being 61° 08' North

The well shall be known as N. W. I. Big Island No. I.

We intend using the following equipment:-

Type of drilling rig: Failing J 55

~~Not~~ or used.

CASING

Size	Weight	Thread	Brand	New Used	Depth	How set
7"	23	8	new		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 540'

Presquille Dolomite at Approximately 750'

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

The officers in charge of the operations will be: J Routledge

At the well

of the Company

Name of Permittee W. L. Brintnell

Signature

W. L. Brintnell

Approved

A. B. Irwin

Title

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PREFACE
to
DAILY PROGRESS REPORT

By March 12, 1953, the crew of General Petroleum of Canada Limited had moved to the location of Northwest Territories Deep Bay No. 4 and had begun preliminary loading and servicing of equipment pending the arrival on March 17th of the "cat" train from Hay River.

On March 18th, all equipment had been skidded from the Deep Bay location across the North channel of the Mackenzie River to the North shore of Big Island, and the "cats" were making some headway with roads to the location. The frozen muskeg and burned out timber on the Island made progress difficult but, by March 20th, a rough road had been made and all equipment had been skidded to the new location. (See tracing of map - Page 24).

By March 22nd, ten days after crew's arrival at Great Slave Lake, all equipment had been moved to the new location, water supply found and setting up of camp and rig mostly completed. Mud pits had to be blasted in the muskeg, as tractors could not dig same because of the frost.

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DAILY PROGRESS REPORT

Date	From	To	Footage	Remarks										
<u>Mar. 23</u>	0	32	32	Completed rigging up operations, dug rat hole, set in rat hole casing and picked up 9" bit and drill collar. Spudded in at 4:00 P.M. with 9" GWS bit and drilled ahead for 7 hours. Penetration rate was very slow due to gravel and boulders.										
<u>Mar. 24</u>	32	148	116	Drilled ahead with 9" GWS bit for 10 1/2 hours. Pulled out pipe after 17 1/2 hours at 75' and rigged up to run casing as follows: Started rigging up to run casing 3:30 P.M. Casing started in hole 4:00 P.M. Casing all in 5:30 P.M. Ran 65.80', 7", 20.5#, 8 Rd.Thd., Range 2, J-55, Stewart & Lloyds casing. No casing shoe, collar, scratchers or centralizers were run and one joint was welded by oxy-acetylene. The belled lower end of the casing was landed 71.90' 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-ins. Picked up 6 1/8" OSC bit and drill collar. Ran in and drilled ahead for 4 1/2 hours.										
<u>Mar. 25</u>	148	557	409	Drilled ahead for 15 1/2 hours with 6 1/8" OSC bit. Pulled pipe, laid back drill collar and bit, and picked up core barrel and 6 1/8" Trucon diamond core bit after 20 hours at 554'. Ran in and cored ahead for 1/2 hour to 557'. Pulled out pipe and for 3' of core cut, 3' were recovered or 100%.										
<u>Mar. 26</u>	557	595	38	Picked up tester, ran in and opened tool for test. <u>DRILL STEM TEST #1</u> - 543' - 557' - Slave Point. <table><tr><td>Hole diameter from 75'</td><td>6 1/8"</td></tr><tr><td>O.D. of packer rubber</td><td>6"</td></tr><tr><td>Length of anchor below packer</td><td>14'</td></tr><tr><td>Valve open</td><td>120 mins.</td></tr><tr><td>Tester shut in</td><td>Nil</td></tr></table>	Hole diameter from 75'	6 1/8"	O.D. of packer rubber	6"	Length of anchor below packer	14'	Valve open	120 mins.	Tester shut in	Nil
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Tester shut in	Nil													

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DAILY PROGRESS REPORT (CONT'D)

Date	From	To	Footage	Remarks										
<u>Mar. 26 (cont'd)</u>				<u>DRILL STEM TEST #1 (CONT'D)</u> There was a faint air blow when the tool was opened and the mud level in the casing did not drop. There was no gas flow. When the drill pipe was pulled, there was no fluid recovered. The test was considered to be mechanically unsatisfactory and was performed by General Petroleum of Canada Limited (Dowell rental), with M.L. Yakimishyn and J. Routledge operating. Broke down and serviced tool. Dart had stuck in shutter disc plugging tester. Re-made tester, ran in and opened tool for test. <u>DRILL STEM TEST #2 - 543' - 557' - Slave Point</u> <table><tr><td>Hole diameter from 75'</td><td>6 1/8"</td></tr><tr><td>O.D. of packer rubber</td><td>6"</td></tr><tr><td>Length of anchor below packer</td><td>14'</td></tr><tr><td>Valve open</td><td>180 mins.</td></tr><tr><td>Tester shut in</td><td>Nil</td></tr></table> There was a good initial air blow when the tool was opened and was followed by steady fair air blow throughout the test. The mud level in the casing did not drop. When the drill pipe was pulled, 5' (0.04 bbls.) of oil flocked mud and 100' (0.74 bbls.) of sulphurous water were recovered. The test was considered to be mechanically satisfactory and was performed by General Petroleum of Canada Limited (Dowell rental), with M.L. Yakimishyn and J. Routledge operating. Broke down tester, picked up 6 1/8" OSC bit and drill collar, ran in and drilled ahead for 5 1/4 hours.	Hole diameter from 75'	6 1/8"	O.D. of packer rubber	6"	Length of anchor below packer	14'	Valve open	180 mins.	Tester shut in	Nil
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<u>Mar. 27</u>	595	734	139	On bottom drilling with 6 1/8" OSC bits for 20 3/4 hours. Bits were changed after 13 hours at 641' and pipe was pulled after 13 hours at 734'.										
<u>Mar. 28</u>	734	831	97	Picked up new 6 1/8" OSC bit and junk sub, ran in and drilled ahead for 7 1/2 hours to 780'. Pulled pipe, laid back bit and junk sub and picked up core barrel and used 6 1/8" Trucon diamond core bit. Ran in and cored										

DAILY PROGRESS REPORT (CONT'D)

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Date	From	To	Footage	Remarks
<u>Mar. 28 (cont'd)</u>				ahead for 7 1/4 hours. Pulled two cores and for 48' cut, 48' were recovered or 100%. A survey showed: 1/4° @ 795'
<u>Mar. 29</u>	831	980	149	Cored ahead for 3 1/2 hours, pulling pipe after 11 1/4 hours at 853'. One core was handled and for 25' cut, 25' were recovered or 100%. Broke down coring equipment and picked up new 6 1/8" OSC bit. Ran in and drilled ahead with same size and type for 17 hours, changing bits after 9 3/4 hours at 931'.
<u>Mar. 30</u>	980	1125	145	On bottom drilling with 6 1/8" OSC bits for 19 3/4 hours. Bits were changed to same size and type after 12 3/4 hours at 1014' and again after 12 1/4 hours at 1108'.
<u>Mar. 31</u>	1125	1226	101	Drilled ahead with 6 1/8" OSC bit for 12 1/2 hours. Pulled pipe and laid back bit after 14 1/2 hours at 1200'. Picked up core barrel and used 6 1/8" Trucon diamond core bit, ran in and cored ahead for 4 3/4 hours. Pulled one core and for 25' cut, 25' were recovered or 100%.
<u>Apr. 1</u>	1226	1301	75	On bottom, diamond coring for 6 1/4 hours, pulling two cores and for 49' cut, 49' were recovered or 100%. Pulled out and laid back coring equipment after 11 hours at 1274'. Picked up new 6 1/8" OSC bit, ran in, reamed tight hole to bottom in 2 hours and drilled on bottom for 3 1/2 hours.
<u>Apr. 2</u>	1301	1357	56	On bottom drilling with 6 1/8" OSC bit for 10 hours, pulling pipe and laying back bit and drill collar after 13 1/2 hours at 1357'. Ran in open end pipe and ran cement plug as follows: <u>Plug #1</u> - 565' - 540' - displaced 8 sack cement with 4.2 barrels water. Plug down at 3:30 P.M. Pulled out pipe, laid back kelly, pulled out protective casing and ran plug as follows: <u>Plug #2</u> - 25' - surface with 25 sack cement.
<u>Apr. 3</u>	1357	--	--	Began tearing out rig and skidding camp and equipment to next location.

SURVEY RECORD

<u>Date</u>	<u>Depth</u>	<u>Deviation</u>
Mar. 26	795	1/4°

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MUD RECORD

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[illegible]

DIAMOND CORE RECORD

Date	Ft. From	Ft. To	Ft. Cut	Ft. Recovered	Percent-- age
Mar. 25	554	557	3	3	100
Mar. 28	780	803	23	23	100
Mar. 28	803	828	25	25	100
Mar. 29	828	853	25	25	100
Mar. 31	1200	1225	25	25	100
Apr. 1	1225	1249	24	24	100
Apr. 1	1249	1274	25	25	100

Total Footage Cored	150
Total Footage Recovered	150
Percentage Recovery	100%

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N. W. T. BIG ISLAND # 1 WELLSAMPLE DESCRIPTIONS: M. L. Yakimishyn

- 1 - 10 - Lake beach sands and gravel, quartz, variables limestones, boulder chips, recent pelecypods and gastropods.
- 10 - 20 - As above, trace pyrite.
- 20 - 30 - As above.
- 30 - 40 - As above.
- 40 - 50 - As above, trace greyish-green shale.
- 50 - 60 - As above.
- TOP HAY RIVER SHALE - 60'.
- 60 - 70 - Shale - light greyish-green, containing micro-crystalline faces giving micro-micaceous appearance.
- 70 - 80 - As above.
- 80 - 90 - As above.
- 90 - 100 - As above.
- 100 - 110 - Shale, as above, trace pyrite.
- 110 - 120 - Shale, as above, becoming somewhat greyish-green to dark greyish-green, containing traces sand-grained pyrite inclusions.
- TOP SIMPSON SHALE - 120'.
- 120 - 130 - Shale - greyish-green to dark grey and greyish-brown, having micro-crystalline faces giving a micro-micaceous appearance, calcareous to highly calcareous, having few pyrite pocket inclusions, light brown streaked staining in part, hard to silty in part, trace black bituminous material.
- 130 - 140 - Shale - greenish-grey, calcareous, micro-micaceous, containing fine grained pyrite inclusions.
- 140 - 150 - Shale - greenish-grey, calcareous, having fine micro-crystalline faces giving a micro-micaceous appearance in part.

SAMPLE DESCRIPTIONS: M. L. Yakivishyn (Cont'd).

150 - 160 -	As above.
160 - 170 -	As above.
170 - 180 -	As above.
180 - 190 -	As above.
190 - 200 -	As above.
200 - 210 -	Shale as above, containing scattered traces dark brown specks, trace pyrite.
210 - 220 -	Shale - as above.
220 - 230 -	As above.
230 - 240 -	As above.
240 - 250 -	As above, becoming somewhat darker.
250 - 260 -	As above.
260 - 270 -	Shale as above, becoming greenish-dark grey.
270 - 280 -	As above.
280 - 290 -	As above.
290 - 300 -	As above.
300 - 310 -	As above.
310 - 320 -	Shale, as above, becoming dark grey.
320 - 330 -	Shale, as above with some grayish-brown, non-calcareous shale.
330 - 340 -	Shale - grayish-brown, waxy-like, non-calcareous, with shale as above.
340 - 350 -	As above with trace brown, micro-crystalline, argillaceous, dense limestone.
350 - 360 -	As above with little light greyish, light brown, micro-crystalline, argillaceous, dense limestone.
360 - 370 -	Shale - greenish-grey, calcareous, having micro-crystalline faces giving a micro-micaceous appearance, containing scattered dark brown specks.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

- 370 - 380 - As above, trace limestone and greyish-brown shale.
- 380 - 390 - As above.
- 390 - 400 - As above.
- 400 - 410 - Shale as above with some limestone - greyish-buff, micro-crystalline, argillaceous, dense.
- 410 - 420 - As above, trace pyrite.
- 420 - 430 - As above.
- 430 - 440 - As above with little greyish-green limestone.
- 440 - 450 - As above.
- 450 - 460 - Shale as above with little variable limestone.
- 460 - 470 - As above with some grey and dark brown shales, traces of gastropods.
- 470 - 480 - As above with much variable limestones.
- 480 - 490 - Shale, grey, calcareous, containing very fine grained, pyrite inclusions, giving a micro-micaceous appearance, having dark brown specks, with some grey, argillaceous, dense limestone with little above shale.
- 490 - 500 - As above, shale becoming darker, harder and limy.
- TOP SIMPSON LIMESTONE - 500'
- 500 - 510 - Limestone - grey, non-argillaceous to slightly argillaceous, dense, shaly in part, slightly fine micro-crystalline with shale as above.
- 510 - 520 - As above.
- 520 - 530 - As above, trace pyrite.
- 530 - 540 - As above.
- 540 - 545 - As above, limestone tending to buff.
- TOP SLAVE POINT DETRITAL LIMESTONE - 545'
- 545 - 548 - Limestone - buff, argillaceous, dense, much pyrite.
- TOP POROSITY - 548'.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

- 548 - 550 - Limestone - buff, argillaceous, dense, having intergranular to tiny poor vuggy porosity, well brown oil stained.
- CORE # 1 - 554 - 557 - Rec. 3'
- 3' Limestone - greyish-brown, micro-crystalline, irregularly patched with detrital brown, coralline limestone, contains poorly preserved branching corals, brachiopods and crinoid stems, few pyritic partings of pyrobitumen and black shales, tight having few bands poor pin point porosity, bleeding oil from same and from few fractures.
- 557 - 560 - Limestone - buff to brown, micro-crystalline, containing poorly preserved corals, brachiopods and crinoid stems, tight having intergranular and pin point porosity, brown oil stained, trace secondary calcite infilling, trace mineralization (zinc and pyrite), few stylolitic partings.
- 560 - 570 - Limestone - cream to buff, slightly micro-crystalline, dense with above.
- 570 - 580 - As above.
- 580 - 590 - As above.
- 590 - 600 - Limestone - buff to brown, micro-crystalline, dense, crumbly and oil stained in part, having some intergranular porosity, evidence of stylolitic partings, trace secondary calcite.
- TOP SLAVE POINT BEDROCK LIMESTONE 600' ?
- 600 - 610 - Limestone - greyish-buff to brown, fine crystalline to micro-crystalline, contains few gastropods, trace good pin point porosity and oil staining, evidence of stylolitic partings, secondary calcite infilling, trace mineralization.
- 610 - 620 - As above.
- 620 - 630 - As above with shale - greenish-grey to grey, slightly calcareous to limy, micro-micaceous in part.
- 630 - 640 - As above, shale becoming dark grey to almost black.
- 640 - 650 - As above (poor sample cavings).

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd)

- 650 - 660 - Limestone - grey and greyish-buff to brown, micro-crystalline, dense, contains few gastropods, oil stained in part, evidence of stylolitic partings of dark brown to black material, much secondary calcite infilling, trace mineralization.
- 660 - 670 - As above, trace pin point porosity.
- 670 - 680 - As above, limestone becoming darker with little cream, chalky limestone.
- 680 - 690 - As above.
- 690 - 700 - Same as 650 - 660 - having trace pin point porosity, with little cream, chalky limestone.
- 700 - 710 - As above.
- 710 - 720 - Limestone - buff to brown, micro-crystalline, dense having trace pin point porosity, being oil stained in part, evidence of dark brown to black, stylolitic partings, secondary calcite infilling, trace soft, cream, chalky limestone.
- 720 - 730 - Limestone - as above with some dark grey and apple green shales.
- 730 - 740 - Limestone - as above with little shales as above.
- 740 - 760 - Limestone - as above with little grey shale.
- 760 - 770 - As above.
- 770 - 780 - Limestone - greyish-buff to buff to brown, fine, micro-crystalline, dense having evidence of stylolitic partings with some soft, cream, chalky limestone.

CORE # 2 - 780 - 803 - Rec. 23'

- 2' Limestone - greyish, light brown, fine, micro-crystalline, dense, containing pyrite inclusions and having many apple green shale stylolitic partings.
- 6" - Shale - apple green, waxy-like, non-calcareous.
- 6' Limestone - as above.
- 7' Shale - dark grey to brownish-black, calcareous, waxy-like in part, having some apple green shale stylolitic partings, containing pyrite inclusions, much slickensiding.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

CORE # 2 (Cont'd)

5' Shale - dark grey to black, non-calcareous, smooth appearance, developed from very much slickensiding, appears to be extremely reworked, containing limestone, coralline material, pyrite and foreign material in small amounts, typical of a detrital shale, strong H₂S odor.

2 1/2' Limestone - buff, micro-crystalline in part, dense, having grey limestone stylolitic partings, containing much pyrite, vertical fracturing and slickensiding, secondary calcite infilling fractures, tending to clastic in part, admixed with shale, H₂S odor.

CORE # 3 - 803 - 828 - Rec. 25'.

2' Shale - grey, slightly calcareous, containing much pyrite, trace slickensiding.

TOP PRESQU'ILLE LIMESTONE - 805'

23' Limestone - greyish-buff to buff, fine micro-crystalline, dense, having bands pin point, poor vuggy porosity, porosity appears water washed and has very poor permeability, little oil saturation mostly bleeding from tight fractures and trapped vugs, few scattered vertical fractures, few stylolitic partings, brown, soft limestone and secondary calcite infilling in vugs.

CORE # 4 - 828 - 853 - Rec. 25'.

25' Limestone - as above.

853 - 860 -

Limestone - greyish-buff to buff and brown, micro-crystalline to non micro-crystalline, dense, trace pin point porosity and oil staining, much secondary calcite.

860 - 870 -

As above.

TOP PRESQU'ILLE REEFAL LIMESTONE ? - 870?

870 - 880 -

As above with limestone - brown, micro-crystalline argillaceous, fine sucrose textured, having good tiny vuggy porosity (reefal), appears water washed with no oil staining.

880 - 890 -

As above.

890 - 900 -

As above.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

900 - 910 - As above.

910 - 920 - As above.

920 - 930 - As above.

TOP PRESQU'ILLE DOLOMITE EQUIVALENT - 930'

930 - 940 - Limestone - buff and brown to dark brown, dolomitic, in part, micro-crystalline, dense, evidence of black stylolitic partings.

940 - 950 - Limestone - dark brown to dark chocolate brown, dolomitic in part, argillaceous, dense, containing scattered gastropods and brachiopods, evidence of stylolitic partings.

950 - 960 - As above.

960 - 970 - Limestone - brown to dark brown, fine, micro-crystalline, in part, dense, soft in part, dolomitic.

970 - 980 - Limestone - brown to dark brown, micro-crystalline, dense, dolomitic in part, containing few gastropods and brachiopods, evidence of stylolitic partings.

980 - 990 - As above.

990 - 1000 - As above.

1000 - 1010 - As above, with little limestone - cream, soft, containing bryozoans and corals, appearing as chalky inclusions.

1010 - 1020 - As above.

1020 - 1030 - As above.

1030 - 1040 - As above.

1040 - 1050 - As above (much cavings).

TOP PINE POINT LIMESTONE - 1050'

1050 - 1060 - Limestone - dark brown to dark chocolate brown to almost black in part, slightly fine micro-crystalline, dense, argillaceous, containing traces gastropods and corals, evidence of pyrobitumen stylolitic partings.

1060 - 1070 - As above.

1070 - 1080 - As above, containing trace brachiopods.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

- 1080 - 1090 - As above.
- 1090 - 1100 - Limestone - brown to dark brown to almost black in part, micro-crystalline, dense, argillaceous, containing brachiopods, gastropods, evidence of pyrobitumen stylolitic partings, with little brown, slightly argillaceous, dense dolomite (limy).
- 1100 - 1110 - As above.
- 1110 - 1120 - As above.
- 1120 - 1130 - As above.
- 1130 - 1140 - As above.
- 1140 - 1150 - As above.
- 1150 - 1160 - As above.
- 1160 - 1170 - Limestone - as above, becoming predominantly dark chocolate brown to almost black.
- 1170 - 1180 - As above.
- 1180 - 1190 - As above.
- 1190 - 1200 - As above.
- CORE # 5 - 1200 - 1225 - Rec. 25'.

25' Limestone - dark chocolate brown, micro-crystalline, dense, containing few fossils, few stylolitic partings, strong H₂S odor.

CORE # 6 - 1225 - 1249 - Rec. 24'.

14' Limestone - as above.

TOP METHY - 1239'

10' Dolomite - brown to dark brown, admixed with limestone - micro-crystalline in part, few stylolitic partings, strong H₂S odor.

CORE # 7 - 1249 - 1274 - Rec. 25'.

10' Dolomite - as above.

15' Limestone - dark brown to dark chocolate brown, micro-crystalline, dense, containing few white limestone inclusions, having few stylolitic partings, strong H₂S odor.

SAMPLE DESCRIPTIONS: M. L. Yakimishyn (Cont'd).

1274 - 1280 - Limestone - brown to dark chocolate brown, micro-crystalline, dense, trace fossils, trace white limestone (gypsite) evidence of stylolitic partings.

1280 - 1290 - As above.

1290 - 1300 - As above (poor sample, much cavings).

1300 - 1310 - As above.

1310 - 1320 - As above (very poor sample).

1320 - 1330 - As above - limestone becoming somewhat anhydritic.

1330 - 1340 - As above.

TOP FITZGERALD - 1340 ?

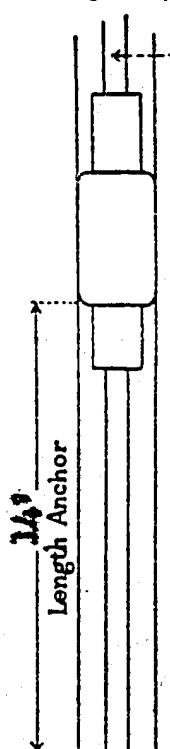
1340 - 1350 - Limestone - as above, trace gypsum.

1350 - 1357 - As above.

TOTAL DEPTH 1357'.

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Drill Stem Test Report

Date March 26, 1953.Name of Well NORTHWEST TERRITORIES BIG ISLAND #1Test No. 1Testing Company General Petroleum of Canada Limited
(Dorell rental)Operator M.L. Yakimishyn & J. Routledge

Size Drill Pipe

3.5 inches O.D.13.3 #/ foot

Bottom of Rubber

at 543 feetDepth 557 feet

O.D. of Packer Rubber

6"

Size Choke

1/2"

Type of Packer: Anchor Type

Yes

Hookwall

Formation Tested

Slave Point

Depth of Well

557'

Zone Tested: From

543'

To

557'

Time Waiting on Tester

Nil

Mud: API Viscosity

40

Gel.

44

Weight

9.6

Time Tester started in hole

3:00 A.M.

" " On Bottom

8:00 A.M.

" " Opened

8:30 A.M.

" " Closed

10:30 A.M.

" " Pulled Loose

10:30 A.M.

" " Out of Hole

11:00 A.M.Weight: Set on Packer 8 Thousand Lbs.; To Pull Packer Loose Nil 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 No XGas Flow: 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 feetTotal fluid in drill pipe: Nil Stands Feet Bbls.Oil in drill pipe { Gassy } Stands Feet Bbls.

{ Dead }

Mud in drill pipe { Gassy } Stands Feet Bbls.

{ Dead }

Water in drill pipe { Gassy } Stands Feet Bbls.

{ Dead }

Note: Samples of Oil and Water must be taken.

Samples sent to By

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

Remarks: Faint initial air blow. Part wedged in shatter disc plugging tool.

Put additional remarks or other information on back of sheet.

Present at test: J. Routledge, M.L. Yakimishyn, C. Spornitz and crew.Do you consider that test was satisfactory? Yes No XDoes chart show normal operation of tester? Yes None run No Pressure on chart (Hydrostatic) before tester opened p.s.i." " " (Flowing) with tester open p.s.i. (shut in) p.s.i.Is chart attached: Yes No Who has it

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

15 JUL 1953

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

WATER ANALYSIS REPORT

22

Field North West Territories Well No. N.W.T. Big Island No. 1
 Operator New Superior Oils of Canada Ltd. Location Unsurveyed
 Sampled by _____ Date rec'd June 9th 1953
 Formation Slave Point Lime Depths 543'-557' How Sampled D.S.T.
 Other pertinent data D.S.T. # 2 Sample of Test Fluid Water & Mud

Analyzed by Chemical & Geological Labs. Ltd. Date June 13th 1953 Lab. No. C-152
Calgary

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO ₄	Cl	CO ₃	HCO ₃	OH	H ₂ S
12,139	921	985		32	22,320		1225		present

MILLIGRAM EQUIVALENTS

527.87	41.36	81.00		0.66	629.49		20.08		
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MILLIGRAM EQUIVALENTS IN PERCENT

40.59	3.38	6.23		0.05	48.41		1.54		
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Total Solids in Parts
per Million

By evaporation 38,750
 After ignition 34,325
 Calculated 37,000

Specific Gravity 1.028
 Observed pH 7 to 8

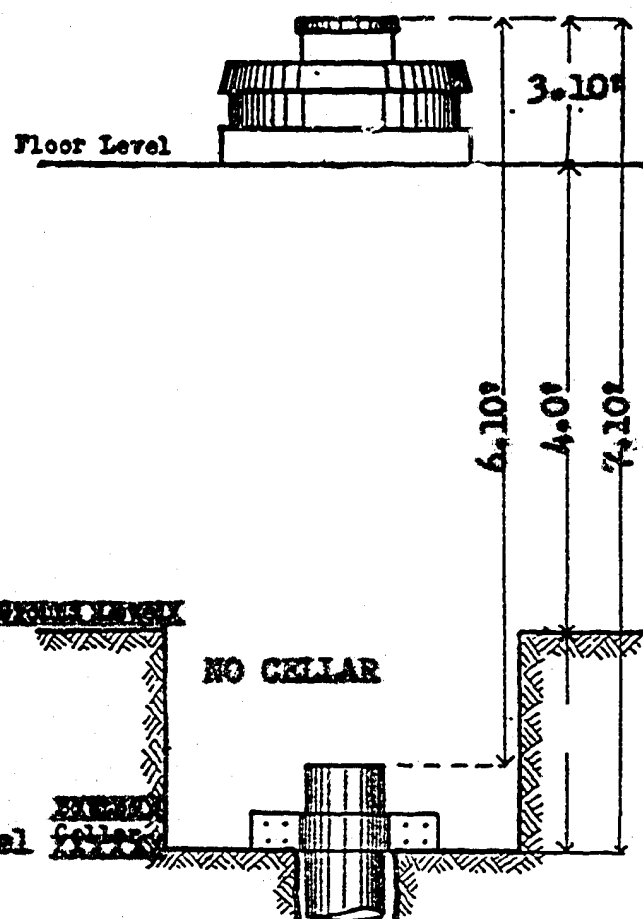
Properties of Reaction in
Percent

Primary salinity 81.18
 Secondary salinity 15.74
 Primary alkalinity 0
 Secondary alkalinity 3.08
 Chloride salinity 99.90
 Sulfate salinity 0.10

Remarks and conclusions Formation water

Casing Report

NAME OF WELL **NORTHWEST TERRITORIES BIG ISLAND #1** DATE **March 24, 1953.**



Make of Casing **Stewart & Lloyds**
 Size **7"** Weight **20.5#** No. of Threads **8 Bd.**
 Short or Long Threads **Long** Grade **J-55** Range **2**
 Make and Type of Casing Shoe **Balled End** Welded on?
 Make and Type of Collar Welded on?
 Centralizers **None** at
 Welding—Electric Acetylene **Yes**
 No. of Joints Welded **1**
 Welding Co. **General Petroleum of Canada Limited.** Operator **Del Weber**
 Scratchers at **None.**

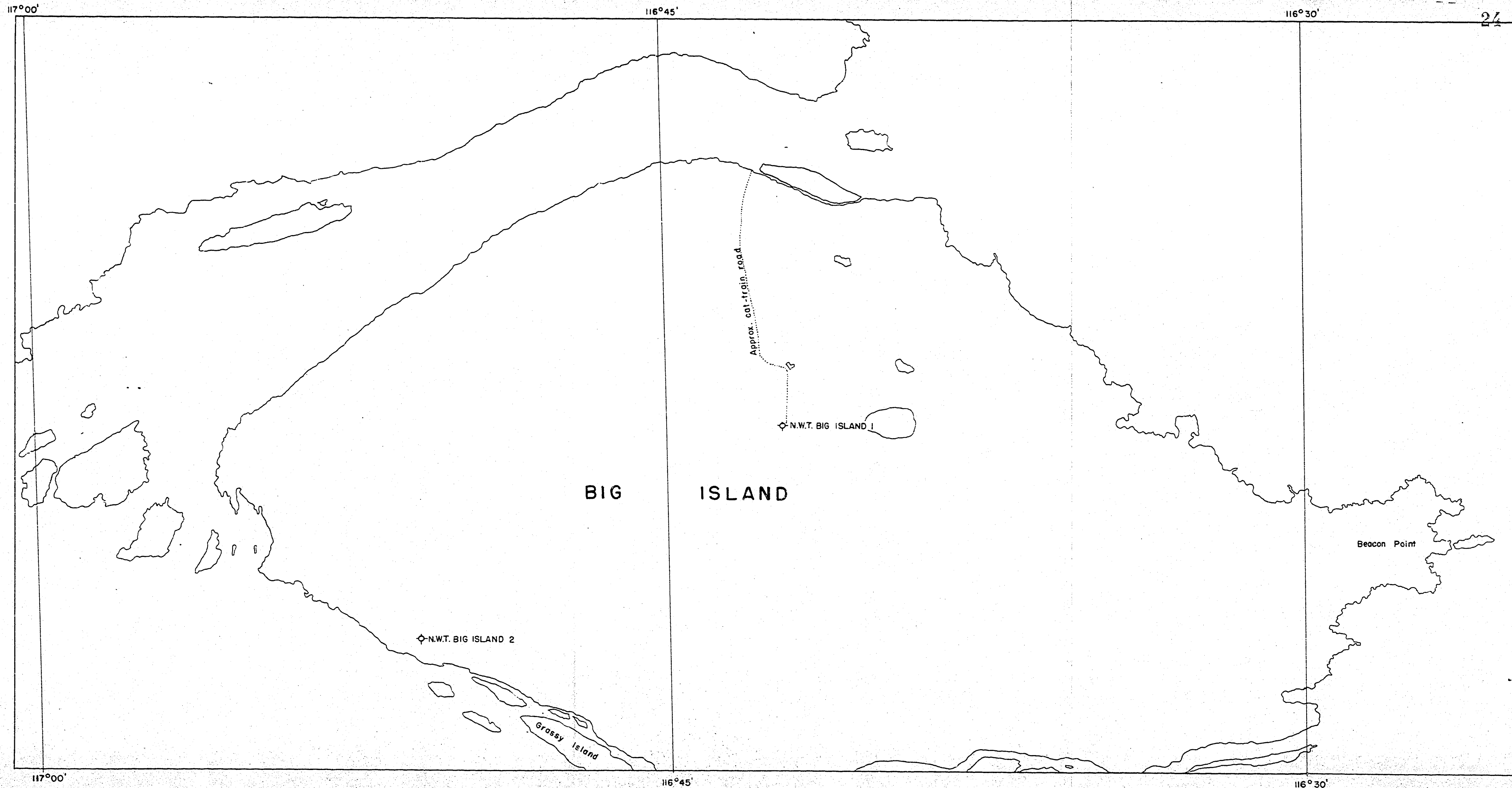
Calcium Chloride Added
 Aquagel Added
 Cementing Co. **Not cemented.**
 Cementer Helper
 Drive Bushing Elevation **560' (estimated)**

Distance Drive Bushing to Ground Level **7.10** Ft.
 Total Amount of Casing Used (~~in hole and on ground~~) **65.80** Ft.
 Distance Top of Casing Landed Below Kelly Drive Bushing **6.10** Ft.
 Total Amount of Casing Left in Hole **65.80** Ft.
 Depth of Shoe Below Drive Bushing **71.90** Ft.
 Time Rigging up to Run Casing **1 1/2** Hrs. Time Casing Started in Hole **4:00 P.M.**
 Time Running Casing **1 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 run as protective string only. It was landed on 9" shoulder to prevent boulder cave-ins. Protective casing was not cemented.

Engineer/Technician **M.L. Yakimishyn**



N.W.T. BIG ISLAND 1 — 116° 42' W., 61° 8' N.
N.W.T. BIG ISLAND 2 — 116° 52' W., 61° 7' N.

DEEP BAY AREA

SCALE: 1 INCH TO 1 MILE

Time Drilling and/or Coring Record

25

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
75	76	7:25	7:30	5		
76	77	7:30	7:32	2		
77	78	7:32	7:35	3		
78	79	7:35	7:39	4		
79	80	7:39	7:43	4		
80	81	7:43	7:46	3		
81	82	7:46	7:49	3		
82	83	7:49	7:53	4		
83	84	7:53	7:56	3		
84	85	7:56	8:00	4		
85	86	8:00	8:03	3		
86	87	8:03	8:07	4		
87	88	8:07	8:10	3		
88	89	8:10	8:15	5		
89	90	8:15	8:21	6		
90	91	8:21	8:27	6		
91	92	8:27	8:32	5		
92	93	8:38	8:41	3		Connection
93	94	8:41	8:45	4		
94	95	8:45	8:48	3		
95	96	8:48	8:51	3		
96	97	8:51	8:55	4		
97	98	8:55	8:58	3		
98	99	8:58	9:01	3		
99	100	9:01	9:04	3		
100	01	9:04	9:07	3		

Time Drilling and/or Coring Record

26

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
101	02	9:07	9:11	4		
02	03	9:11	9:14	3		
03	04	9:14	9:17	3		
04	05	9:17	9:20	3		
05	06	9:20	9:23	3		
06	07	9:23	9:25	2		
07	08	9:25	9:29	4		
08	09	9:29	9:33	4		
09	10	9:33	9:37	4		
110	11	9:37	9:41	4		
11	12	9:41	9:45	4		
12	13	9:45	9:48	3		
13	14	9:48	9:51	3		
14	15	9:51	9:55	4		
15	16	9:55	9:59	4		
16	17	9:59	10:03	4		
17	18	10:03	10:06	3		
18	19	10:06	10:08	2		
19	20	10:08	10:11	3		
120	21	10:11	10:15	4		
21	22	10:15	10:19	4		
22	23	10:27	10:31	4		Connection
23	24	10:31	10:34	3		
24	25	10:34	10:36	2		
25	26	10:36	10:38	2		
26	27	10:38	10:40	2		

Time Drilling and/or Coring Record

27

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
127	28	10:40	10:42	2		
28	29	10:42	10:44	2		
29	30	10:44	10:46	2		
30	31	10:46	10:49	3		
31	32	10:49	10:52	3		
32	33	10:52	10:54	2		
33	34	10:54	10:57	3		
34	35	10:57	11:00	3		
35	36	11:00	11:03	3		
36	37	11:03	11:06	3		
37	38	11:06	11:10	4		
38	39	11:10	11:14	4		
39	40	11:14	11:19	5		
40	41	11:19	11:22	3		
41	42	11:22	11:26	4		
42	43	11:26	11:30	4		
43	44	11:30	11:35	5		
44	45	11:35	11:39	4		
45	46	11:39	11:43	4		
46	47	11:43	11:47	4		
47	48	11:47	11:50	3		
48	49	11:50	11:53	3		
49	50	11:53	11:57	4		
50	51	11:57	12:01	4		
51	52	12:01	12:05	4		
52	53	12:05	12:09	4		

Time Drilling and/or Coring Record

28

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
153	54	12:21	12:26	5		Connection
54	55	12:26	12:29	3		
55	56	12:29	12:32	3		
56	57	12:32	12:38	6		
57	58	12:38	12:40	2		
58	59	12:40	12:42	2		
59	60	12:42	12:44	2		
160	61	12:44	12:46	2		
61	62	12:46	12:48	2		
62	63	12:48	12:50	2		
63	64	12:50	12:52	2		
64	65	12:52	12:54	2		
65	66	12:54	12:56	2		
67	68	12:56	12:58	2		
68	69	12:58	1:00	2		
69	70	1:00	1:02	2		
170	71	1:02	1:04	2		
71	72	1:04	1:05	1		
72	73	1:05	1:07	2		
73	74	1:07	1:09	2		
74	75	1:09	1:11	2		
75	76	1:11	1:14	3		
76	77	1:14	1:17	3		
77	78	1:17	1:19	2		
78	79	1:19	1:21	2		
79	80	1:21	1:23	2		

Time Drilling and/or Coring Record

29

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
	180	81	1:23	1:25	2	
	81	82	1:25	1:27	2	
	82	83	1:27	1:29	2	
	83	84	1:29	1:31	2	
	84	85	1:44	1:46	2	Connection
	85	86	1:46	1:48	2	
	86	87	1:48	1:51	3	
	87	88	1:51	1:53	2	
	88	89	1:53	1:55	2	
	89	90	1:55	1:57	2	
	190	91	1:57	2:00	3	
	91	92	2:00	2:03	3	
	92	93	2:03	2:05	2	
	93	94	2:05	2:07	2	
	94	95	2:07	2:09	2	
	95	96	2:09	2:10	1	
	96	97	2:10	2:12	2	
	97	98	2:12	2:14	2	
	98	99	2:14	2:16	2	
	99	200	2:16	2:18	2	
	200	01	2:18	2:20	2	
	01	02	2:20	2:22	2	
	02	03	2:22	2:23	1	
	03	04	2:23	2:25	2	
	04	05	2:25	2:27	2	
	05	06	2:27	2:29	2	

Time Drilling and/or Coring Record

30

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
206	07	2:29	2:31	2		
07	08	2:31	2:33	2		
08	09	2:33	2:35	2		
09	10	2:35	2:37	2		
10	11	2:37	2:39	2		
11	12	2:39	2:41	2		
12	13	2:41	2:43	2		
13	14	2:43	2:45	2		
14	15	3:08	3:10	2		Connection
15	16	3:10	3:12	2		
16	17	3:12	3:14	2		
17	18	3:14	3:16	2		
18	19	3:16	3:19	3		
19	20	3:19	3:20	1		
220	21	3:20	3:22	2		
21	22	3:22	3:23	1		
22	23	3:23	3:25	2		
23	24	3:25	3:27	2		
24	25	3:27	3:29	2		
25	26	3:29	3:31	2		
26	27	3:31	3:33	2		
27	28	3:33	3:35	2		
28	29	3:35	3:37	2		
29	30	3:37	3:39	2		
230	31	3:39	3:41	2		
31	32	3:41	3:43	2		

Time Drilling and/or Coring Record

31

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
232	33	3:43	3:45	2		
33	34	3:45	3:46	1		
34	35	3:46	3:48	2		
35	36	3:48	3:50	2		
36	37	3:50	3:52	2		
37	38	3:52	3:54	2		
38	39	3:54	3:56	2		
39	40	3:56	3:58	2		
240	41	3:58	4:00	2		
41	42	4:00	4:02	2		
42	43	4:02	4:04	2		
43	44	4:04	4:06	2		Connection
44	45	4:15	4:17	2		
45	46	4:17	4:18	1		
46	47	4:18	4:19	1		
47	48	4:19	4:21	2		
48	49	4:21	4:22	1		
49	50	4:22	4:23	1		
250	51	4:23	4:24	1		
51	52	4:24	4:26	2		
52	53	4:26	4:27	1		
53	54	4:27	4:28	1		
54	55	4:28	4:29	1		
55	56	4:29	4:30	1		
56	57	4:30	4:32	2		
57	58	4:32	4:34	2		

Time Drilling and/or Coring Record

32

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
258	59	4:34	4:36	2		
59	60	4:36	4:37	1		
60	61	4:37	4:39	2		
61	62	4:39	4:40	1		
62	63	4:40	4:42	2		
63	64	4:42	4:43	1		
65	66	4:43	4:45	2		
66	67	4:45	4:46	1		
67	68	4:46	4:48	2		
68	69	4:48	4:49	1		
69	70	4:49	4:51	2		
270	71	4:51	4:53	2		
71	72	4:53	4:55	2		
72	73	4:55	4:56	1		
73	74	4:56	4:58	2		Connection
74	75	5:12	5:14	2		
75	76	5:14	5:16	2		
76	77	5:16	5:18	2		
77	78	5:18	5:20	2		
78	79	5:20	5:21	1		
79	80	5:21	5:22	1		
280	81	5:22	5:23	1		
81	82	5:23	5:24	1		
82	83	5:24	5:26	2		
83	84	5:26	5:27	1		
84	85	5:27	5:28	1		

Time Drilling and/or Coring Record

33

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
285	86	5:28	5:29	1		
86	87	5:29	5:30	1		
87	89	5:30	5:32	2		
89	90	5:32	5:33	1		
90	91	5:33	5:35	2		
91	92	5:35	5:37	2		
92	93	5:37	5:39	2		
93	94	5:39	5:41	2		
94	95	5:41	5:42	1		
95	96	5:42	5:43	1		
96	97	5:43	5:45	2		
97	98	5:45	5:47	2		
98	99	5:47	5:48	1		
99	300	5:48	5:49	1		
300	02	5:49	5:51	2		
02	03	5:51	5:52	1		
03	04	5:52	5:54	2		Connection
04	05	6:09	6:10	1		
05	06	6:10	6:12	2		
06	07	6:12	6:13	1		
07	08	6:13	6:14	1		
08	09	6:14	6:16	2		
09	10	6:16	6:17	1		
310	11	6:17	6:18	1		
11	12	6:18	6:19	1		
12	13	6:19	6:21	2		

Time Drilling and/or Coring Record

34

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
313	34	6:21	6:22	1		
34	35	6:22	6:23	1		
35	36	6:23	6:24	1		
36	37	6:24	6:26	2		
37	38	6:26	6:27	1		
38	39	6:27	6:28	1		
39	40	6:28	6:30	2		
320	21	6:30	6:32	2		
21	22	6:32	6:34	2		
22	23	6:34	6:35	1		
23	24	6:35	6:37	2		
24	25	6:37	6:39	2		
25	26	6:39	6:41	2		
26	27	6:41	6:42	1		
27	28	6:42	6:44	2		
28	29	6:44	6:45	1		
29	30	6:45	6:46	1		
330	31	6:46	6:47	1		
31	32	6:47	6:49	2		
32	33	6:49	6:51	2		
33	34	6:51	6:53	2		Connection
34	35	7:07	7:09	2		
35	36	7:09	7:10	1		
36	37	7:10	7:12	2		
37	38	7:12	7:14	2		
38	39	7:14	7:16	2		
39	40	7:16	7:18	2		

Time Drilling and/or Coring Record

35

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
340	41	7:18	7:20	2		
41	42	7:20	7:22	2		
42	43	7:22	7:24	2		
43	44	7:24	7:26	2		
44	45	7:26	7:28	2		
45	46	7:28	7:30	2		
46	47	7:30	7:32	2		
47	48	7:32	7:34	2		
48	49	7:34	7:36	2		
49	50	7:36	7:38	2		
350	51	7:40	7:42	2		
51	52	7:42	7:44	2		
52	53	7:44	7:46	2		
53	54	7:46	7:48	2		
54	55	7:48	7:50	2		
55	56	7:50	7:52	2		
56	57	7:52	7:54	2		
57	58	7:54	7:56	2		
58	59	7:56	8:02	6		
59	60	8:02	8:05	3		
360	61	8:05	8:09	4		
61	62	8:09	8:12	3		
62	63	8:12	8:16	4		
63	64	8:16	8:29	13		Connection

Time Drilling and/or Coring Record

36

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
364	65	9:01	9:04	3		
65	66	9:04	9:06	2		
66	67	9:06	9:07	1		
67	68	9:07	9:09	2		
68	69	9:09	9:11	2		
69	70	9:11	9:13	2		
70	71	9:13	9:15	2		
71	72	9:15	9:17	2		
72	73	9:17	9:19	2		
73	74	9:19	9:21	2		
74	75	9:21	9:23	2		
75	76	9:23	9:25	2		
76	77	9:25	9:27	2		
77	78	9:27	9:29	2		
78	79	9:29	9:32	3		
79	80	9:32	9:34	2		
380	81	9:34	9:35	1		
81	82	9:35	9:36	1		
82	83	9:36	9:37	1		
83	84	9:37	9:39	2		
84	85	9:39	9:40	1		
85	86	9:40	9:41	1		
86	87	9:41	9:42	1		
87	88	9:42	9:43	1		
88	89	9:43	9:45	2		
89	90	9:45	9:47	2		

Time Drilling and/or Coring Record

37

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
390	91	9:47	9:49	2		
91	92	9:49	9:51	2		
92	93	9:51	9:52	1		
93	94	9:52	9:54	2		Connection
94	95	10:05	10:07	2		
95	96	10:07	10:09	2		
96	97	10:09	10:12	3		
97	98	10:12	10:14	2		
98	99	10:14	10:16	2		
99	400	10:16	10:18	2		
400	01	10:18	10:20	2		
01	02	10:20	10:22	2		
02	03	10:22	10:24	2		
03	04	10:24	10:26	2		
04	05	10:26	10:28	2		
05	06	10:28	10:29	1		
06	07	10:29	10:31	2		
07	08	10:31	10:33	2		
08	09	10:33	10:34	1		
09	10	10:34	10:36	2		
410	11	10:36	10:38	2		
11	12	10:38	10:40	2		
12	13	10:40	10:41	1		
13	14	10:41	10:43	1		
14	15	10:43	10:44	1		
15	16	10:44	10:45	1		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
16	17	10:45	10:47	2		
17	18	10:47	10:48	1		
18	19	10:48	10:49	1		
19	20	10:49	10:50	1		
20	21	10:50	10:51	1		
21	22	10:51	10:52	1		
22	23	10:52	10:53	1		
23	24	10:53	10:54	1		
24	25	10:54	10:55	1		
25	26	10:55	10:56	1		
26	27	11:06	11:07	1		Connection
27	28	11:07	11:08	1		
28	29	11:08	11:09	1		
29	30	11:09	11:10	1		
30	31	11:10	11:11	1		
31	32	11:11	11:13	2		
32	33	11:13	11:15	2		
33	34	11:15	11:17	2		
34	35	11:17	11:18	1		
35	36	11:18	11:20	2		
36	37	11:20	11:21	1		
37	38	11:21	11:22	1		
38	39	11:22	11:24	2		
39	40	11:24	11:25	1		
40	41	11:25	11:27	2		
41	42	11:27	11:29	2		

Time Drilling and/or Coring Record

39

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
442	43	11:29	11:30	1		
43	44	11:30	11:32	2		
44	45	11:32	11:34	2		
45	46	11:34	11:36	2		
46	47	11:36	11:37	1		
47	48	11:37	11:39	2		
48	49	11:39	11:41	2		
49	50	11:41	11:43	2		
451	52	11:43	11:45	2		
52	53	11:45	11:46	1		
53	54	11:46	11:47	1		
54	55	11:47	11:49	2		
55	56	11:49	11:51	2		
56	57	11:51	11:53	2		Connection
57	58	12:20	12:22	2		Change tour; rig service
58	59	12:22	12:23	1		
59	60	12:23	12:25	2		
460	61	12:25	12:26	1		
61	62	12:26	12:28	2		
62	63	12:28	12:30	2		
63	64	12:30	12:32	2		
64	65	12:32	12:34	2		
65	66	12:34	12:37	3		
66	67	12:37	12:39	2		
67	68	12:39	12:43	4		
68	69	12:43	12:46	3		

Time Drilling and/or Coring Record

40

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
469	70	12:46	12:48	2		
70	71	12:48	12:50	2		
71	72	12:50	12:52	2		
72	73	12:52	12:54	2		
73	74	12:54	12:57	3		
74	75	12:57	1:00	3		
75	76	1:00	1:03	3		
76	77	1:03	1:05	2		
77	78	1:05	1:06	1		
78	79	1:06	1:08	2		
79	80	1:08	1:11	3		
480	81	1:11	1:13	2		
81	82	1:13	1:16	3		
82	83	1:16	1:18	2		
83	84	1:18	1:20	2		
84	85	1:20	1:23	3		
85	86	1:23	1:25	2		
86	87	1:25	1:28	3		
87	88	1:41	1:44	3		Connection
88	89	1:44	1:46	2		
89	90	1:46	1:49	3		
490	91	1:49	1:51	2		
91	92	1:51	1:54	3		
92	93	1:54	1:57	3		
93	94	1:57	1:59	2		
94	95	1:59	2:01	2		

Time Drilling and/or Coring Record

41

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
495	96	2:01	2:04	3		
96	97	2:04	2:06	2		
97	98	2:06	2:08	2		
98	99	2:08	2:11	3		
99	500	2:11	2:15	4		
500	01	2:15	2:20	5		
01	02	2:20	2:26	6		
02	03	2:26	2:29	3		
03	04	2:29	2:31	2		
04	05	2:31	2:33	2		
05	06	2:33	2:35	2		
06	07	2:35	2:37	2		
07	08	2:37	2:39	2		
08	09	2:39	2:41	2		
09	10	2:41	2:43	2		
510	11	2:43	2:45	2		
11	12	2:45	2:47	2		
12	13	2:47	2:49	2		
13	14	2:49	2:52	3		
14	15	2:52	2:54	2		
15	16	2:54	2:56	2		
16	17	2:56	2:58	2		
17	18	2:58	3:00	2		
18	19	3:09	3:11	2		Connection
19	20	3:11	3:13	2		
520	21	3:13	3:15	2		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
521	22	3:15	3:18	3		
22	23	3:18	3:20	2		
23	24	3:20	3:22	2		
24	25	3:22	3:25	3		
25	26	3:25	3:27	2		
26	27	3:27	3:30	3		
27	28	3:30	3:32	2		
28	29	3:32	3:34	2		
29	30	3:34	3:36	2		
530	31	3:36	3:38	2		
31	32	3:38	3:40	2		
32	33	3:40	3:42	2		
33	34	3:42	3:44	2		
34	35	3:44	3:46	2		
35	36	3:46	3:48	2		
36	37	3:48	3:50	2		
37	38	3:50	3:52	2		
38	39	3:52	3:54	2		
39	40	3:54	3:56	2		
540	41	3:56	3:58	2		
41	42	3:58	4:00	2		
42	43	4:00	4:03	3		
43	44	4:03	4:05	2		
44	45	4:05	4:08	3		
45	46	4:08	4:12	4		
46	47	4:12	4:16	4		Connection

Time Drilling and/or Coring Record

43

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
547	48	4:27	4:31	4		
48	49	4:31	4:33	2		
49	50	4:33	4:36	3		
50	51	4:36	4:38	2		
51	52	4:38	4:40	2		
52	53	4:40	4:42	2		
53	54	4:42	4:48	6		
54	55	9:03	9:11	8		Core #1
55	56	9:11	9:20	9		
56	57	9:20	9:30	10		Trip
57	58	6:52	6:58	6		
58	59	6:58	7:05	7		
59	60	7:05	7:11	6		
560	61	7:11	7:17	6		
61	62	7:17	7:26	9		
62	63	7:26	7:34	8		
63	64	7:34	7:43	9		
64	65	7:43	7:52	9		
65	66	7:52	8:05	13		
66	67	8:05	8:15	10		
67	68	8:15	8:22	7		
68	69	8:22	8:29	7		
69	70	8:29	8:36	7		
570	71	8:36	8:43	7		
71	72	8:43	8:49	6		
72	73	8:49	8:56	7		

Time Drilling and/or Coring Record

44

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
573	74	8:56	9:03	7		
74	75	9:05	9:10	7		
75	76	9:10	9:17	7		
76	77	9:17	9:23	6		
77	78	9:23	9:29	6		
78	79	9:37	9:44	7		Connection
79	80	9:44	9:50	6		
80	81	9:50	9:56	6		
81	82	9:56	10:03	7		
82	83	10:03	10:12	9		
83	84	10:12	10:21	9		
84	85	10:21	10:30	9		
85	86	10:30	10:40	10		
86	87	10:40	10:48	8		
87	88	10:48	10:56	8		
88	89	10:56	11:05	9		
89	90	11:05	11:14	9		
590	91	11:14	11:22	8		
91	92	11:22	11:32	10		
92	93	11:32	11:42	10		
93	94	11:42	11:52	10		
94	95	11:52	12:00	8		
95	96	12:00	12:09	9		
96	97	12:09	12:19	10		
97	98	12:19	12:28	9		
98	99	12:28	12:38	10		

Time Drilling and/or Coring Record

45

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
599	600	12:38	12:48	10		
600	01	12:48	12:58	10		
01	02	12:58	1:04	6		
02	03	1:04	1:10	6		
03	04	1:10	1:17	7		
04	05	1:17	1:27	10		
05	06	1:27	1:33	6		
06	07	1:33	1:41	8		
07	08	1:41	1:49	8		
08	09	1:49	1:57	8		
09	10	1:57	2:05	8		Connection
610	11	2:08	2:21	13		
11	12	2:21	2:30	9		
12	13	2:30	2:39	9		
13	14	2:39	2:52	13		
14	15	2:52	3:01	9		
15	16	3:01	3:12	11		
16	17	3:12	3:26	14		
17	18	3:26	3:40	14		
18	19	3:40	3:54	14		
19	20	3:54	4:08	14		
620	21	4:08	4:23	15		
21	22	4:23	4:39	16		
22	23	4:39	4:51	12		
22	23	4:51	5:02	11		
23	24	5:02	5:15	13		
24	25	5:15	5:28	13		

Time Drilling and/or Coring Record

46

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
625	26	5:28	5:41	13		
26	27	5:41	5:55	14		
27	28	5:55	6:07	12		
28	29	6:07	6:18	11		
29	30	6:18	6:30	12		
30	31	6:30	6:42	12		
31	32	6:42	6:52	10		
32	33	6:52	7:05	13		
33	34	7:05	7:15	10		
34	35	7:15	7:28	13		
35	36	7:28	7:40	12		
36	37	7:40	7:50	10		
37	38	7:50	7:59	9		
38	39	7:59	8:09	10		
39	40	8:09	8:19	10		
640	41	8:19	8:30	11		Connection
41	42	10:19	10:26	7		Trip
42	43	10:26	10:33	7		
43	44	10:33	10:39	6		
44	45	10:39	10:48	9		
45	46	10:48	10:58	10		
46	47	10:58	11:07	9		
47	48	11:07	11:15	8		
48	49	11:15	11:25	10		
49	50	11:25	11:35	10		
650	51	11:35	11:44	9		

Time Drilling and/or Coring Record

47

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
651	52	11:44	11:53	9		
52	53	11:53	12:03	10		
53	54	12:03	12:12	9		
54	55	12:12	12:19	7		
55	56	12:19	12:27	8		
56	57	12:27	12:35	8		
57	58	12:35	12:42	7		
58	59	12:42	12:51	9		
59	60	12:51	1:00	9		
660	61	1:00	1:07	7		
61	62	1:07	1:15	8		
62	63	1:15	1:23	8		
63	64	1:23	1:31	8		
64	65	1:31	1:40	9		
65	66	1:40	1:48	8		
66	67	1:48	1:56	8		
67	68	1:56	2:04	8		
68	69	2:04	2:11	7		
69	70	2:11	2:18	7		
670	71	2:18	2:26	8		
71	72	2:26	2:34	8		Connection
72	73	2:43	2:52	9		
73	74	2:52	3:01	9		
74	75	3:01	3:10	9		
75	76	3:10	3:18	8		
76	77	3:18	3:26	8		
77	78	3:26	3:34	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
678	79	3:34	3:42	8		
79	80	3:42	3:50	8		
80	81	3:50	3:58	8		
81	82	3:58	4:06	8		
82	83	4:06	4:15	9		
83	84	4:15	4:23	8		
84	85	4:23	4:30	7		
85	86	4:30	4:37	7		
86	87	4:37	4:43	6		
87	88	4:43	4:49	6		
88	89	4:49	4:56	7		
89	90	4:56	5:03	7		
690	91	5:03	5:09	6		
91	92	5:09	5:17	8		
92	93	5:17	5:24	7		
93	94	5:24	5:31	7		
94	95	5:31	5:38	7		
95	96	5:38	5:46	8		
96	97	5:46	5:53	7		
97	98	5:53	5:59	6		
98	99	5:59	6:06	7		
99	700	6:06	6:12	6		
700	01	6:12	6:18	6		
01	02	6:18	6:24	6		Connection
02	03	6:30	6:35	5		
03	04	6:35	6:42	7		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
704	05	6:42	6:50	8		
05	06	6:50	6:59	9		
06	07	6:59	7:07	8		
07	08	7:07	7:15	8		
08	09	7:15	7:23	8		
09	10	7:23	7:32	9		
10	11	7:32	7:40	8		
11	12	7:40	7:51	11		
12	13	7:51	7:59	8		
13	14	7:59	8:08	9		
14	15	8:08	8:18	10		
15	16	8:18	8:27	9		
16	17	8:27	8:37	10		
17	18	8:37	8:47	10		
18	19	8:47	8:58	11		
19	20	8:58	9:09	11		
720	21	9:09	9:19	10		
21	22	9:19	9:30	11		
22	23	9:30	9:41	11		
23	24	9:41	9:53	12		
24	25	9:53	10:04	11		
25	26	10:04	10:14	10		
26	27	10:14	10:25	11		
27	28	10:25	10:36	11		
28	29	10:36	10:48	12		
29	30	10:48	11:00	12		

Time Drilling and/or Coring Record

50

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
730	31	11:00	11:12	12		
31	32	11:12	11:22	10		
32	33	11:22	11:31	9		
33	34	11:31	11:42	11		
34	35	1:36	1:45	9		
35	36	1:45	1:53	8		Connection
36	37	2:02	2:14	12		
37	38	2:14	2:21	7		
38	39	2:21	2:29	8		
39	40	2:29	2:37	8		
740	41	2:37	2:47	10		
41	42	2:47	2:57	10		
42	43	2:57	3:06	9		
43	44	3:06	3:12	6		
44	45	3:12	3:20	8		
45	46	3:20	3:27	7		
46	47	3:27	3:34	7		
47	48	3:34	3:42	8		
48	49	3:42	3:52	10		
49	50	3:52	4:02	10		
750	51	4:02	4:11	9		
51	52	4:11	4:19	8		
52	53	4:19	4:29	10		
53	54	4:29	4:37	8		
54	55	4:37	4:46	9		
55	56	4:46	4:55	9		

Time Drilling and/or Coring Record

51

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
756	57	4:55	5:05	10		
57	58	5:05	5:13	8		
58	59	5:13	5:24	11		
59	60	5:24	5:33	9		
60	61	5:33	5:44	11		
61	62	5:44	5:55	11		
62	63	5:55	6:06	11		
63	64	6:06	6:18	12		
64	65	6:18	6:29	11		
65	66	6:29	6:40	11		Connection
66	67	6:47	6:55	8		
67	68	6:55	7:03	8		
68	69	7:03	7:11	8		
69	70	7:11	7:19	8		
770	71	7:19	7:28	9		
71	72	7:28	7:37	9		
72	73	7:37	7:46	9		
73	74	7:46	7:55	9		
74	75	7:55	8:05	10		
75	76	8:05	8:16	11		
76	77	8:16	8:28	12		
77	78	8:28	8:38	10		
78	79	8:38	8:46	8		
79	80	8:46	8:55	9		
780	81	11:35	11:47	12		Core #2 - Trip
81	82	11:47	11:51	4		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
782	83	11:51	12:00	9		
83	84	12:00	12:08	8		
84	85	12:08	12:16	8		
85	86	12:16	12:24	8		
86	87	12:24	12:32	8		
87	88	12:32	12:41	9		
88	89	12:41	12:50	9		
89	90	12:50	12:59	9		
790	91	12:59	1:09	10		
91	92	1:09	1:19	10		
92	93	1:19	1:30	11		
93	94	1:30	1:44	14		
94	95	1:44	1:55	11		
95	96	1:55	2:05	10		
96	97	2:13	2:22	9		Connection
97	98	2:22	2:31	9		
98	99	2:31	2:41	10		
99	800	2:41	2:49	8		
800	01	2:49	2:56	7		
01	02	2:56	3:01	5		
02	03	3:01	3:09	8		Trip
03	04	5:30	5:41	11		Core #3
04	05	5:41	5:50	9		
05	06	5:50	5:58	8		
06	07	5:58	6:05	7		
07	08	6:05	6:12	7		

Time Drilling and/or Coring Record

53

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
808	09	6:12	6:17	5		
09	10	6:17	6:24	7		
10	11	6:24	6:32	8		
11	12	6:32	6:39	7		
12	13	6:39	6:48	9		
13	14	6:48	6:57	9		
14	15	6:57	7:06	9		
15	16	7:06	7:14	8		
16	17	7:14	7:22	8		
17	18	7:22	7:30	8		
18	19	7:30	7:38	8		
19	20	7:38	7:45	7		
820	21	7:45	7:52	7		
21	22	7:52	8:00	8		
22	23	8:00	8:08	8		
23	24	8:08	8:16	8		
24	25	8:24	8:30	6		Connection
25	26	8:30	8:37	7		
26	27	8:37	8:42	5		
27	28	8:42	8:47	5		Trip
28	29	11:35	11:44	9		Core #4
29	30	11:44	11:50	6		
830	31	11:50	11:58	8		
31	32	11:58	12:05	7		
32	33	12:05	12:13	8		
33	34	12:13	12:21	8		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
834	35	12:21	12:30	9		
35	36	12:30	12:40	10		
36	37	12:40	12:49	9		
37	38	12:49	12:59	10		
38	39	12:59	1:07	8		
39	40	1:07	1:14	7		
40	41	1:14	1:22	8		
41	42	1:22	1:31	9		
42	43	1:31	1:41	10		
43	44	1:41	1:50	9		
44	45	1:50	1:59	9		
45	46	1:59	2:08	9		
46	47	2:08	2:17	9		
47	48	2:17	2:27	10		
48	49	2:27	2:37	10		
49	50	2:37	2:47	10		
850	51	2:47	2:56	9		
51	52	2:56	3:05	9		
52	53	3:05	3:15	10		Trip
53	54	5:42	5:48	6		
54	55	5:48	5:55	7		
55	56	5:55	6:00	5		
56	57	6:00	6:06	6		
57	58	6:06	6:12	6		
58	59	6:12	6:16	4		
59	60	6:16	6:21	5		

Time Drilling and/or Coring Record

55

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
860	61	6:21	6:26	5		
61	62	6:26	6:32	6		
62	63	6:32	6:43	9		
63	64	6:43	6:50	9		
64	65	6:50	7:00	10		
65	66	7:00	7:08	8		
66	67	7:08	7:15	7		
67	68	7:15	7:25	10		
68	69	7:25	7:35	10		
69	70	7:35	7:47	12		
870	71	7:47	8:03	16		
71	72	8:03	8:15	12		
72	73	8:15	8:23	8		
73	74	8:23	8:30	7		
74	75	8:30	8:37	7		
75	76	8:37	8:45	8		
76	77	8:45	8:54	9		
77	78	8:54	9:03	9		
78	79	9:03	9:12	9		
79	80	9:12	9:22	10		
880	81	9:22	9:31	9		
81	82	9:31	9:40	9		Connection 9 minutes.
82	83	9:49	9:56	7		
83	84	9:56	10:00	4		
84	85	10:00	10:06	6		
85	86	10:06	10:12	6		

Time Drilling and/or Coring Record

56

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
886	87	10:12	10:18	6		
87	88	10:18	10:25	7		
88	89	10:25	10:31	6		
89	90	10:31	10:38	7		
90	91	10:38	10:44	6		
91	92	10:44	10:49	5		
92	93	10:49	10:55	6		
93	94	10:55	11:01	6		
94	95	11:01	11:08	7		
95	96	11:08	11:12	4		
96	97	11:12	11:17	5		
96	97	11:17	11:22	5		
97	98	11:22	11:26	4		
98	99	11:26	11:30	4		
99	900	11:30	11:35	5		
900	01	11:35	11:39	4		
01	02	11:39	11:44	5		
02	03	11:44	11:49	5		
03	04	11:49	11:53	4		
04	05	11:53	11:57	4		
05	06	11:57	12:02	5		
06	07	12:02	12:06	4		
07	08	12:06	12:10	4		
08	09	12:10	12:14	4		
09	10	12:14	12:20	6		
910	11	12:20	12:26	6		

Time Drilling and/or Coring Record

57

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
911	12	12:35	12:41	6		Connection
12	13	12:41	12:46	5		
13	14	12:46	12:50	4		
14	15	12:50	12:55	5		
15	16	12:55	1:00	5		
16	17	1:00	1:05	5		
17	18	1:05	1:11	6		
18	19	1:11	1:15	4		
19	20	1:15	1:19	4		
920	21	1:19	1:25	6		
21	22	1:25	1:34	9		
22	23	1:34	1:43	9		
23	24	1:43	1:52	9		
24	25	1:52	2:00	8		
25	26	2:00	2:08	8		
26	27	2:08	2:15	7		
27	28	2:15	2:23	8		
28	29	2:23	2:31	8		
29	30	2:31	2:40	9		
930	31	2:40	2:50	10		Tripping - rig service
31	32	4:45	4:51	6		
32	33	4:51	4:59	8		
33	34	4:59	5:08	9		
34	35	5:08	5:17	9		
35	36	5:17	5:26	9		
36	37	5:26	5:34	8		

Time Drilling and/or Coring Record

58

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
937	38	5:34	5:42	8		
38	39	5:42	5:52	10		
39	40	5:52	6:02	10		
40	41	6:02	6:10	8		
41	42	6:10	6:20	10		
42	43	6:32	6:41	9		Connection and rig service
43	44	6:41	6:50	9		
44	45	6:50	7:01	11		
45	46	7:01	7:12	11		
46	47	7:12	7:24	12		
47	48	7:24	7:35	11		
48	49	7:35	7:46	11		
49	50	7:46	7:53	7		
950	51	7:53	8:03	10		
51	52	8:03	8:13	10		
52	53	8:13	8:23	10		
53	54	8:23	8:31	8		
54	55	8:31	8:40	9		
55	56	8:40	8:49	9		
56	57	8:49	8:59	10		
57	58	8:59	9:07	8		
58	59	9:07	9:15	8		
59	60	9:15	9:23	8		
960	61	9:23	9:31	8		
61	62	9:31	9:37	6		
62	63	9:37	9:44	7		

Time Drilling and/or Coring Record

59

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
963	64	9:44	9:51	7		
64	65	9:51	9:59	8		
65	66	9:59	10:07	9		
66	67	10:07	10:15	8		
67	68	10:15	10:22	7		
68	69	10:22	10:30	8		
69	70	10:30	10:37	7		
70	71	10:37	10:44	7		
71	72	10:44	10:52	8		
72	73	11:01	11:08	7		Connection
73	74	11:08	11:15	7		
74	75	11:15	11:24	9		
75	76	11:24	11:32	8		
76	77	11:32	11:40	8		
77	78	11:40	11:49	9		
78	79	11:49	11:57	8		
79	80	11:57	12:06	9		
980	81	12:06	12:14	8		
81	82	12:14	12:25	11		
82	83	12:25	12:34	9		
83	84	12:34	12:43	9		
84	85	12:43	12:55	12		
85	86	12:55	1:07	12		
86	87	1:07	1:17	10		
87	88	1:17	1:26	9		
88	89	1:26	1:36	10		

Time Drilling and/or Coring Record

60

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
989	90	1:36	1:48	12		
90	91	1:48	1:58	10		
91	92	1:58	2:09	11		
92	93	2:09	2:19	10		
93	94	2:19	2:28	9		
94	95	2:28	2:36	8		
95	96	2:36	2:46	10		
96	97	2:46	2:54	8		
97	98	2:54	3:03	9		
98	99	3:03	3:11	8		
99	1000	3:11	3:19	8		
1000	01	3:19	3:27	8		
01	02	3:27	3:35	8		
02	03	3:35	3:44	9		
03	04	3:44	3:52	8		Connection 14 minutes
04	05	4:06	4:13	7		
05	06	4:13	4:20	7		
06	07	4:20	4:27	7		
07	08	4:27	4:35	8		
08	09	4:35	4:43	8		
09	10	4:43	4:51	8		
10	11	4:51	5:00	9		
11	12	5:00	5:08	8		
12	13	5:08	5:16	8		
13	14	5:16	5:24	8		Trip
14	15	7:30	7:35	5		

Time Drilling and/or Coring Record

61

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1015	16	7:35	7:40	5		
16	17	7:40	7:46	6		
17	18	7:46	7:52	6		
18	19	7:52	7:59	7		
19	20	7:59	8:06	7		
20	21	8:06	8:13	7		
21	22	8:13	8:18	5		
22	23	8:18	8:23	5		
23	24	8:23	8:27	4		
24	25	8:27	8:32	5		
25	26	8:32	8:37	5		
26	27	8:37	8:42	5		
27	28	8:42	8:48	6		
28	29	8:48	8:53	5		
29	30	8:53	8:58	5		
1030	31	8:58	9:04	6		
31	32	9:04	9:10	6		
32	33	9:10	9:16	6		
33	34	9:16	9:22	6		Connection 8 minutes
34	35	9:30	9:37	7		
35	36	9:37	9:42	5		
36	37	9:42	9:48	6		
37	38	9:48	9:53	5		
38	39	9:53	10:01	8		
39	40	10:01	10:10	9		
1040	41	10:10	10:18	8		

Time Drilling and/or Coring Record

62

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1041	42	10:18	10:26	8		
42	43	10:26	10:33	7		
43	44	10:33	10:41	8		
44	45	10:41	10:49	8		
45	46	10:49	10:56	7		
46	47	10:56	11:03	7		
47	48	11:03	11:09	6		
48	49	11:09	11:17	8		
49	50	11:17	11:24	7		
1150	51	11:24	11:32	8		
51	52	11:32	11:40	8		
52	53	11:40	11:47	7		
53	54	11:47	11:55	8		
54	55	11:55	12:02	7		
55	56	12:02	12:09	7		
56	57	12:09	12:16	7		Change tour
57	58	12:05	12:12	7		Time correction
58	59	12:12	12:18	6		
59	60	12:18	12:26	8		
1060	61	12:26	12:32	6		
61	62	12:32	12:38	6		
62	63	12:38	12:46	8		
63	64	12:46	12:54	8		
64	65	12:54	1:02	8		
65	66	1:12	1:20	8		Connection
66	67	1:20	1:28	8		

Time Drilling and/or Coring Record

63

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1067	68	1:28	1:36	8		
68	69	1:36	1:44	8		
69	70	1:44	1:51	7		
70	71	1:51	1:59	8		
71	72	1:59	2:05	6		
72	73	2:05	2:11	6		
73	74	2:11	2:19	8		
74	75	2:19	2:27	8		
75	76	2:27	2:35	8		
76	77	2:35	2:42	7		
77	78	2:42	2:49	7		
78	79	2:49	2:57	8		
79	80	2:57	3:04	7		
1080	81	3:04	3:12	8		
81	82	3:12	3:20	8		
82	83	3:20	3:29	9		
83	84	3:29	3:38	9		
84	85	3:38	3:49	11		
85	86	3:49	3:58	9		
86	87	3:58	4:06	8		
87	88	4:06	4:12	8		
88	89	4:12	4:20	8		
89	90	4:20	4:29	9		
1090	91	4:29	4:37	8		
91	92	4:37	4:45	8		
92	93	4:45	4:53	8		

Time Drilling and/or Coring Record

64

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1093	94	4:53	5:01	8		
94	95	5:01	5:11	10		
95	96	5:34	5:41	7		Connection; rig service
96	97	5:41	5:49	8		
97	98	5:49	5:59	10		
98	99	5:59	6:10	11		
99	1100	6:10	6:21	11		
1100	01	6:21	6:34	13		
01	02	6:34	6:45	11		
02	03	6:45	6:56	11		
03	04	6:56	7:10	14		
04	05	7:10	7:21	11		
05	06	7:21	7:31	10		
06	07	7:31	7:41	10		
07	08	7:41	7:52	11		
08	09	9:56	10:04	8		Tripping
09	10	10:04	10:11	7		
10	11	10:11	10:19	8		
11	12	10:19	10:27	8		
12	13	10:27	10:36	9		
13	14	10:36	10:46	10		
14	15	10:46	10:55	9		
15	16	10:55	11:02	7		
16	17	11:02	11:09	7		
17	18	11:09	11:15	6		
18	19	11:15	11:21	6		

Time Drilling and/or Coring Record

65

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1119	20	11:21	11:27	6		
20	21	11:27	11:35	8		
21	22	11:35	11:42	7		
22	23	11:42	11:49	7		
23	24	11:49	11:57	8		
24	25	11:57	12:05	8		
25	26	12:20	12:27	7		Connection
26	27	12:27	12:35	8		
27	28	12:35	12:43	8		
28	29	12:43	12:51	8		
29	30	12:51	12:59	8		
1130	31	12:59	1:07	8		
31	32	1:07	1:16	9		
32	33	1:16	1:24	8		
33	34	1:24	1:33	9		
34	35	1:33	1:43	10		
35	36	1:43	1:53	10		
36	37	1:53	2:02	9		
37	38	2:02	2:12	10		
38	39	2:12	2:20	8		
39	40	2:20	2:30	10		
1140	41	2:30	2:39	9		
41	42	2:39	2:48	9		
42	43	2:48	2:57	9		
43	44	2:57	3:07	10		
44	45	3:07	3:17	10		

Time Drilling and/or Coring Record

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1145	46	3:17	3:26	9		
46	47	3:26	3:35	9		
47	48	3:35	3:45	10		
48	49	3:45	3:56	11		
49	50	3:56	4:03	7		
50	51	4:03	5:11	8		
51	52	4:11	4:19	8		
52	53	4:19	4:27	8		
53	54	4:27	4:35	8		
54	55	4:35	4:44	9		
55	56	4:44	4:52	8		Connection 28 minutes
56	57	5:20	5:28	8		
57	58	5:28	5:38	10		
58	59	5:38	5:48	10		
59	60	5:48	5:58	10		
1160	61	5:58	6:10	12		
61	62	6:10	6:22	12		
62	63	6:22	6:33	11		
63	64	6:33	6:45	12		
64	65	6:45	6:58	13		
65	66	6:58	7:10	12		
66	67	7:10	7:19	9		
67	68	7:19	7:28	9		
68	69	7:28	7:38	10		
69	70	7:38	7:48	10		
1170	71	7:48	7:59	11		

Time Drilling and/or Coring Record

67

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1171	72	7:59	8:10	11		
72	73	8:10	8:19	9		
73	74	8:19	8:28	9		
74	75	8:28	8:36	8		
75	76	8:36	8:45	9		
76	77	8:45	8:54	9		
77	78	8:54	9:05	11		
78	79	9:05	9:16	11		
79	80	9:16	9:27	11		
1180	81	9:27	9:38	11		
81	82	9:38	9:47	9		
82	83	9:47	9:58	11		
83	84	9:58	10:07	9		
84	85	10:07	10:15	8		
85	86	10:15	10:25	10		Connection 10 minutes
86	87	10:35	10:47	11		
87	88	10:47	10:57	10		
88	89	10:57	11:08	11		
89	90	11:08	11:16	8		
1190	91	11:16	11:26	10		
91	92	11:26	11:36	10		
92	93	11:36	11:47	11		
93	94	11:47	11:57	10		
94	95	11:57	12:07	10		
95	96	12:07	12:17	10		
96	97	12:17	12:27	10		

Time Drilling and/or Coring Record

68

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1197	98	12:27	12:38	11		
98	99	12:38	12:49	11		
99	1200	12:49	1:00	11		Trip
1200	01	4:47	4:55	8		Core #5
01	02	4:55	5:05	10		
02	03	5:05	5:15	10		
03	04	5:15	5:25	10		
04	05	5:25	5:36	11		
05	06	5:36	5:46	10		
06	07	5:46	5:56	10		
07	08	5:56	6:06	10		
08	09	6:06	6:16	10		
09	10	6:16	6:25	9		
1210	11	6:25	6:34	9		
11	12	6:34	6:43	9		
12	13	6:43	6:51	8		
13	14	6:51	7:01	10		
14	15	7:01	7:10	9		
15	16	7:10	7:18	8		
16	17	7:18	7:25	7		
17	18	7:33	7:42	9		Connection
18	19	7:42	7:53	11		
19	20	7:53	8:04	11		
1220	21	8:04	8:14	10		
21	22	8:14	8:23	9		
22	23	8:23	8:33	10		

Time Drilling and/or Coring Record

69

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1223	24	8:33	8:44	11		
24	25	8:44	8:55	11		
25	26	11:32	11:43	11		Core #6
26	27	11:43	11:55	12		
27	28	11:55	12:07	12		
28	29	12:07	12:20	13		
29	30	12:20	12:33	13		
30	31	12:33	12:44	11		
31	32	12:44	12:53	9		
32	33	12:53	1:03	10		
33	34	1:03	1:14	11		
34	35	1:14	1:25	11		
35	36	1:25	1:35	10		
36	37	1:35	1:45	10		
37	38	1:45	1:53	8		
38	39	1:53	2:02	9		
39	40	2:02	2:11	9		
1240	41	2:11	2:18	7		
41	42	2:18	2:26	8		
42	43	2:26	2:33	7		
43	44	2:33	2:40	7		
44	45	2:40	2:48	8		
45	46	2:48	2:55	7		
46	47	2:55	3:02	7		
47	48	3:02	3:09	7		
48	49	3:09	3:16	7		

Time Drilling and/or Coring Record

70

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1249	50	12:45	12:52	7		Core #7
50	51	12:52	12:59	7		
51	52	12:59	1:06	7		
52	53	1:06	1:13	7		
53	54	1:13	1:21	8		
54	55	1:21	1:29	8		
55	56	1:29	1:37	8		
56	57	1:37	1:46	9		
57	58	1:46	1:55	9		
58	59	1:55	2:02	7		
59	60	2:02	2:09	7		
1260	61	2:09	2:15	6		
61	62	2:15	2:22	7		
62	63	2:22	2:30	8		
63	64	2:30	2:38	8		
64	65	2:38	2:46	8		
65	66	2:46	2:54	8		
66	67	2:54	3:03	9		
67	68	3:03	3:11	8		
68	69	3:11	3:19	8		
69	70	3:19	3:26	7		
1270	71	3:26	3:33	7		
71	72	3:33	3:40	7		
72	73	3:40	3:47	7		
73	74	3:47	3:55	8		Trip
74	75	8:40	8:50	10		

Time Drilling and/or Coring Record

71

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1275	76	8:50	9:00	10		
76	77	9:00	9:08	8		
77	78	9:08	9:17	9		
78	79	9:26	9:34	8		Connection
79	80	9:34	9:41	7		
80	81	9:41	9:47	6		
81	82	9:47	9:53	6		
82	83	9:53	9:59	6		
83	84	9:59	10:05	6		
84	85	10:05	10:11	6		
85	86	10:11	10:17	6		
86	87	10:17	10:22	5		
87	88	10:22	10:29	7		
88	89	10:29	10:36	7		
89	90	10:36	10:42	6		
1290	91	10:42	10:49	7		
91	92	10:49	10:57	8		
92	93	10:57	11:01	9		
93	94	11:01	11:11	10		
94	95	11:11	11:19	8		
95	96	11:19	11:25	6		
96	97	11:25	11:31	6		
97	98	11:31	11:38	7		
98	99	11:38	11:45	7		
99	1300	11:45	11:52	7		
1300	01	11:52	11:59	7		

Time Drilling and/or Coring Record

72

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1301	02	11:59	12:06	7		
02	03	12:06	12:13	7		
03	04	12:13	12:20	7		
04	05	12:20	12:26	6		
05	06	12:26	12:33	7		
06	07	12:33	12:41	8		
07	08	12:41	12:54	13		
08	09	1:03	1:11	8		Connection
09	10	1:11	1:19	8		
1310	11	1:19	1:27	8		
11	12	1:27	1:37	10		
12	13	1:37	1:49	12		
13	14	1:49	2:00	11		
14	15	2:00	2:11	11		
15	16	2:11	2:23	12		
16	17	2:23	2:36	13		
17	18	2:36	2:50	14		
18	19	2:50	3:04	14		
19	20	3:04	3:15	11		
1320	21	3:15	3:24	9		
21	22	3:24	3:33	9		
22	23	3:33	3:42	9		
23	24	3:42	3:51	9		
24	25	3:51	4:00	9		
25	26	4:00	4:09	9		
26	27	4:09	4:19	10		

Time Drilling and / or Coring Record

73

DEPTH		TIME O'CLOCK		Time Elapsed Minutes	Rate Ft./Hr.	REMARKS
From	To	From	To			
1327	78	4:19	4:29	10		
28	29	4:29	4:39	10		
29	30	4:39	4:49	10		
30	31	4:49	4:59	10		
31	32	4:59	5:09	10		
32	33	5:09	5:19	10		
33	34	5:19	5:30	11		
34	35	5:30	5:41	11		
35	36	5:41	5:51	10		
36	37	5:51	6:03	12		
37	38	6:03	6:15	12		
38	39	6:15	6:27	12		
39	40	6:27	6:40	13		Connection 11 minutes
1340	41	6:51	7:02	11		
41	42	7:02	7:15	13		
42	43	7:15	7:30	15		
43	44	7:30	7:42	12		
44	45	7:42	7:56	14		
45	46	7:56	8:08	12		
46	47	8:08	8:22	14		
47	48	8:22	8:37	15		
48	49	8:37	8:52	15		
49	50	8:52	9:08	16		
1350	51	9:19	9:36	17		
51	52	9:36	9:45	9		
52	53	9:56	10:08	12		

DISTRIBUTION

Eleven copies of the foregoing report were completed in June, 1953.

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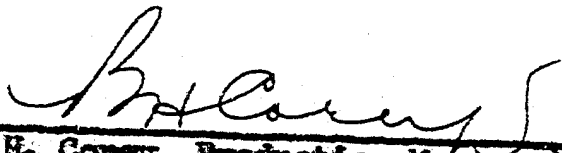
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PROGRESS REPORT
on the
DRILLING, CORING, TESTING AND ABANDONMENT
of the
NORTHWEST TERRITORIES BIG ISLAND NO. 1 WELL
located at
Latitude 61° 8' North, Longitude 116° 42' West
- Great Slave Lake, Northwest Territories -

Compiled by:

L.O. Alho and B.E. Smith

Approved by:


(B.E. Corey, Production Manager)

Written: June 5, 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. 1 Well located at Latitude $61^{\circ} 8'$ North, Longitude $116^{\circ} 42'$ West, near the centre of Big Island, which is at the point where the MacKenzie River leaves Great Slave Lake.

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 AND ABANDONMENT

Name of Company:

Northwest Territories Petroleum Limited

Name of Well:

Northwest Territories Big Island No. 1

Location:

Latitude 61° 8' North,
Longitude 116° 42' West.

Elevation:

Kelly Bushing: 560' (estimated using 519' as elevation of Great Slave Lake).

Drilling Contractor:

General Petroleum of Canada Limited -
Big #F-55 - J.E. Routledge, Toolpusher.

Protective Casings:

Landed at 71.9'.
65.8', 7", 20.5", 8 Bd. Thd., Range 2, J-55,
Stewart & Lloyds casing. Run as protection
against boulder cave in only. Not cemented
and all pulled before final abandonment.

Geological Markers:

Cores & Samples
(M.L. Yakimishyn)

Hay River Shale	60
Simpson Shale	120
Simpson Limestone	500
Slave Point Detrital Limestone	545
Slave Point Porosity	548
Slave Point Bedrock Limestone	600 ?
Presqu'ile Limestone	805
Presqu'ile Reefal Limestone	870 ?
Presqu'ile Dolomite Equivalent	930
Pine Point Limestone	1050
Methy Dolomite	1239
Fitzgerald Limestone	1340 ?

Cored Intervals:

554 - 557 - Diamond Cores
780 - 850 - Diamond Cores
1200 - 1274 - Diamond Cores

Formation Tests:

D.S.T. #1 - 543 - 557 - Slave Point - valve
open 120 minutes - misrun.
D.S.T. #2 - 543 - 557 - Slave Point - valve
open 180 minutes. Recovered 5" oil flecked
mud and 100" sulphurous water.

Total Depth:

1357'.

Cement Plugs:

Plug #1 - 540 - 565 with 8 sack cement.
Plug #2 - Surface - 25' with 25 sack cement.

DATA PERTINENT TO DRILLING, CORING, TESTING AND ABANDONMENT (CONT'D)

<u>Date Well Spudded:</u>	March 23, 1953.
<u>Date Drilling Completed:</u>	April 2, 1953.
<u>Date Well Abandoned:</u>	April 2, 1953.

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