

Deer Lake Oil & Gas Inc.

Final Well Report

Werner Hatch #1

June, 2010

(as updated on November 24, 2010)

**Prepared by
Terry Brooker, P.Eng.**

TABLE OF CONTENTS

Werner Hatch # 1 Final Well Report

- 1.0 Introduction (2.2)
- 2.0 Map (2.3)
- 3.0 General Information (2.4)
- 4.0 Difficulties and Delays (2.5)
- 5.0 Drilling Operations (3.0)
- 6.0 Geological (4.0)
- 7.0 Well Evaluation (5.0)
- 8.0 Daily Drilling Reports
- 9.0 Legal Survey

Attachment # 1	Location Map
Attachment # 2	Drilling Curve
Attachment # 3	Well Schematic
Attachment # 4	Daily Geological Reports
Attachment # 5	Geological Strip Log
Attachment # 6	Weatherford Field Report
Attachment # 7	Weatherford Core Geochem Analysis
Attachment # 8	Mud Gas Log
Attachment # 9	Weatherford Headspace Gas Analysis
Attachment # 10	Log - Borehole Compensated Sonic
Attachment # 11	Log - Dual Formation Resistivity & SP
Attachment # 12	Log - Compensated Neutron – Litho-Density, GR & Caliper
Attachment # 13	Daily Drilling Reports
Attachment # 14	Well Site Legal Survey

1.0 Introduction (2.2)

The Werner Hatch #1 well was drilled by Deer Lake Oil & Gas Inc. (DLOG) to evaluate the hydrocarbon potential of the sedimentary rock of EP 03-105 in the Cormack (western) sub-basin of the Deer Lake Basin. This exploratory oil and gas well is located about 6 km. north east of the town of Deer Lake, Newfoundland.

The well initially spudded on February 11, 2010 with a Dave Sullivan Drilling water well rig which drove 254 mm casing to 24.7 m, and then drilled to 99 m and set and cemented 177.3 mm surface casing.

Operations resumed on March 10, 2010 when Logan Drilling Limited moved their Longyear Hydro 44 rig to the site and cored to 444.84 m. Cement plugs were set to suspend the well and the rig was moved off.

Core was recovered from 99 m to 444.84 m. The core was continuously described on site and boxed for permanent storage. A full suite of open hole logs were run. There were no drill stem tests run on this well.

Well site drilling supervision was by Mr. Stan Podulsky and site geological work by Mr. Wilson Jacobs. Operations management was by Mr. Terry Brooker.

2.0 Map (2.3)

A map showing the location of the well and access road is included as Attachment #1.

3.0 General Information (2.4)

Well Name - Deer Lake Oil & Gas Werner Hatch #1

Operator - Deer Lake Oil & Gas Inc.

Permit - Exploration Permit #33-105

Contractor - Logan Drilling Limited

Drilling Rig - Longyear Hydro 44

Location - Long 57° 20.854'
Lat 49° 13.054'

- Northing 5451498
Easting 0474768

4.0 Difficulties and Delays (2.5)

A summary of the problems encountered during the drilling of this well are:

- wait on flow meter prior to spud – approximately 72 hrs.
- the well kicked at 273 m – approximately 24 hrs to circulate weighted NaCl mud to 1200 kg/ m³. Wait on CaCl₂ and circulate weighted mud to 1300 kg/ m³ took another 28 ½ hrs.
- waited on slim hole logging tools – approximately 55 hrs.

The Drilling Curve for Werner Hatch # 1 is attached as Attachment # 2

5.0 Drilling Operations (3.0)

5.1 Ground Elev. - 43.5 m
KB Elev. - 46.7 m

5.2 Total Depth - 444.84 meters

5.3 Spud Date - 1230 hrs, February 11, 2010

5.4 TD Date - 2100 hrs, March 25, 2010

5.5 Rig Release - 1900 hrs, March 31, 2010

5.6 Well Status - well is suspended with cement plugs and a cap.

5.7 Hole Size and Depths
- Conductor - Drill 311 mm hole to 18.6 m GL
- Surface – Drill 222 mm hole to 99 m GL
- Main - Core 96 mm hole to 444.84 m KB

5.8 Bit records

- 311 mm hole

1 A surface – 18.6 m
18.6 m in 2 ½ hrs, 7.4 m/hr

- 222 mm hole

1 B 18.6 – 99 m
80.4 m in 18 ¼ hrs, 4.4 m/hr,

- 96 mm hole

1 101 – 444.84 m Longyear, serial # 84689
341 m in 151.5 hrs, 2.25 m/hr, 1000 daN, 600 rpm

5.9 Casing and Cementing Record

- Conductor

Drive 254 mm, Sched 40 pipe to 24.7 m GL

- Surface

Run 177.3 mm, 25.3 kg/m H-40 casing to 99 m GL.

Cement with 2.3 m³ Class G with 0.3 m³ cement returns. Top up annulus with 0.6 m³ Class A

- Main - Suspension plugs

– 7 sx Normal Portland @ 1700 kg/m³ set 444.84 –412 m, no feel.

– 24 sx Normal Portland @ 1700 kg/m³ set 323–223 m, tagged at 215 m

– 14 sx Normal Portland @ 1700 kg/m³ set 115 - 85 m, tagged at 85 m

5.10 Sidetracked Hole

There was no sidetracked hole.

5.11 Drilling Fluid

The well was drilled with a simple low viscosity mud with small additions of Maytex 955. Mud was weighted up at 273 m, first to 1200 kg/m³ with NaCl and then to 1300 kg/ m³ with CaCl₂. At TD the system was changed over to a 1170 kg/ m³ Barite system with small amounts of Kalzan.

5.12 Fluid Disposal

There were no problems with the mud system. The mud was checked and approved for landfill disposal.

5.13 Fishing Operations

HW casing was run inside the 177.3 mm surface casing to stabilize the HQ drill rods. Several trips were made with a Bowen spear once the well was finished drilling to recover this pipe.

5.14 Well Kicks

The well was drilling at 273 m with 1050 kg/m³ mud when it kicked. The well was shut in and measured SIDP – 500 kPa and SICP – 2100 kPa, which exceed the MACP and so the annulus was opened to the pit. Mud weight was increased to 1200 kg/m³ with NaCl. The well was shut in and measured SIDP –

1400 kPa and SICP – 1500 kPa. The well flowed at very low rates of initially non-flammable gas (probably nitrogen), but then most of the inflow became water. The mud weight was raised with CaCl_2 to 1300 kg/m^3 which successfully killed the well.

5.15 Formation Leak-Off Tests

A leak off test was conducted at 101 m with casing set to 97 m. With water (1000 kg / m^3) in the hole, surface leak off pressure was 2100 kPa, so the leak off gradient is 31.46 kPa / m .

5.16 Time Distribution

Breakdown covers both the water well and the coring operations from spud or start drilling to rig release.

- Drilling	172.25 hrs
- Tripping	40.50
- Circulate	72.50
- Condition Mud	23.00
- Rig Service	3.75
- Rig Repair	1.00
- Run Casing	8.50
- Cementing	13.00
- Nipple up	4.50
- Test BOPs	0.75
- Weld Casing	5.00
- WOC	18.00
- WOO	4.00
- Wait on Loggers	48.00
- Logging	5.00
- Survey	1.50
- Safety Mtgs	0.75

5.17 Deviation Plot

No continuous directional survey was run on this well. The following single shots were taken 93 m – 6.1° at direction 190.4, 171 m – 6.9° at direction 189.1, 261 m – 3.5° at direction 187.4, 351 m – 6.0° at direction 189.5, 441 m – 6.1° at direction 191.6.

5.17 Suspension / Abandonment Plugs

- 7 sx Normal Portland @ 1700 kg/m^3 set 444.84 – 412 m, no feel.
- 24 sx Normal Portland @ 1700 kg/m^3 set 323–223 m, tagged at 215 m
- 14 sx Normal Portland @ 1700 kg/m^3 set 115 - 85 m, tagged at 85 m

Fluid left in the hole is drilling mud with a density of 1170 kg/m³.

5.19 Well Schematic

A schematic showing hole sizes and depths, casing sizes and depths, and cementing details is included as Attachment #3.

6.0 Geological (4.0)

The DLOG Werner Hatch #1 well spudded in the Rocky Brook Formation, Deer Lake Group. Samples were taken at 27.4 m and 30 m and then 5 m samples thereafter to 95 m. These samples were bagged and described in the Daily Geological Report.

The well was continuously cored from 101 m to 444.84 m. The core was described in the Daily Geological Report and Geological Strip Log. The Daily Geological Reports are attached as Attachment #4 and the Geological Strip Log are attached as Attachment # 5.

The organically rich Upper and Lower Greys Units of the Rocky Brook Formation were the primary targets for this well.

Overburden: Glacial till (0 m to 27.4 m)

Deer Lake Group (Carboniferous (Visean); 27.4 m to 444.84 m)

Rocky Brook Formation (27.4 m to 444.84 m) :

- Upper Greys (27.4 m to 285.3 m) Alternating black to blackish grey to dark brown laminated mudstones and greenish grey to grayish green massive (non-laminated) turbiditic siltstones
- Brown Beds (285.3 m to 306.3 m) Greyish brown to dark brown and green turbiditic silty mudstones
- Lower Greys (306.3 m to 428.07 m) Alternating black to blackish grey to dark brown laminated and brecciated mudstones and greenish grey to grayish green to brownish grey and brown massive (non-laminated) turbiditic siltstones; grayish green to grayish brown and brown sandstones
- Mottled Beds (428.07 m to 440.63 m) Massive brown to reddish brown siltstone with minor greenish-grey siltstones
- Red Silts (440.63 m to 444.84 m) Massive reddish brown siltstones

7.0 Well Evaluation (5.0)

7.1 Core analysis

An onsite Weatherford core analysis team undertook shale gas focused core measurement and curation operations including hotdip preservation and gas desorb cannister measurements .

Weatherford personnel also took photos of selected portions of the core from 100 m to TD (the Weatherford Field Report is set out in Attachment # 6).

Thirty core samples were later selected by Deer Lake and sent to Weatherford for geo-chemical analysis (see Attachment # 7).

7.2 Logging Program

Mud gas level were logged during the coring section using a Datalog gas logger (Attachment # 8)

During the water well section , selected well cuttings were preserved using GeoJar containers for analysis (Attachment # 9)

Ran open Schlumberger hole logs from 444.8 to 104.5 m KB

- Borehole Compensated Sonic Log (and GR and Caliper) (Attachment # 10)
- Dual Formation Resistivity (and SP) (Attachment # 11)
- Compensated Neutron – Litho - Density (and GR and Caliper) (Attachment # 12)

7.3 Drill Stem Tests

No Drill Stem Tests were run.

8.0 Daily Drilling Reports

Daily Drilling Reports are attached as Attachment # 13

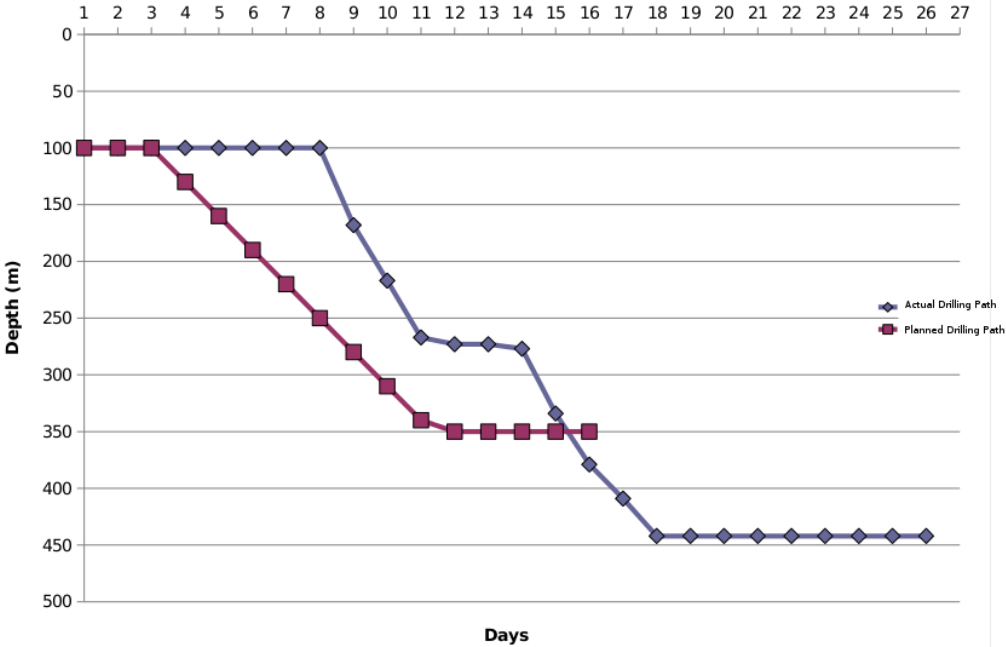
9.0 Legal Survey

A Legal Survey of the well site is attached as Attachment # 14

ATTACHMENT # 1
Location Map

ATTACHMENT # 2
Drilling Curve

Deer Lake - Drilling Curve



ATTACHMENT # 3
Well Schematic

**DRILL 311mm
HOLE TO 18.6m**

**CONDUCTOR PIPE
DRIVE 254mm SCHED 40
TO 24.7m GL**

**DRILL 222mm
HOLE TO 99m GL**

**SURFACE CASING
177.3mm 25.3KG/M
H40 TO 99m GL
CEMENT 2.3m'CL G**

**CORE 96mm
HOLE TO 444.8m KB**

**PLUG #3 115-85m
14 SXS NORMAL PORTLAND**

**PLUG #2 323-223m
24 SXS NORMAL PORTLAND**

**PLUG #1 444.8-412m
7 SXS NORMAL PORTLAND**

**ATTACHMENT # 3
WELL SCHEMATIC
DLOG WH # 1**

DEER LAKE OIL & GAS LTD

ATTACHMENT # 4
Daily Geological Reports

CONFIDENTIAL

DEER LAKE OIL & GAS INC.

Daily Geological Report for

Phase 1 of Werner-Hatch # 1 Well (Deer Lake Basin Shale-Gas Project)

Geologist: Wilson Jacobs

Date: February 12, 2010

Two Geojar samples of formation cuttings were taken at intervals 27.4-30.0 m and 35-40 m, and three bagged samples at regular 5 m intervals, including the top 2.6 m interval (bagged samples set to proceed at 5 m intervals, thereon). Petrographical descriptions of the bagged samples are as follows:

Surface – ROCKY BROOK FORMATION (Upper Greys Unit ???)

27.4-30.0 m

SHALE (75%)/MUDSTONE (20%)/SILTSTONE (5%): Shale, brown to brownish-grey and grey in color with trace to minor black specks of organic debris, and minor silty layers of subangular to rounded quartz grains (≤ 0.5 mm in size); subfissile to fissile; moderately to well indurated; weakly calcareous. Apart from the obvious siltstone laminations in the shale, the remaining 5% siltstone fragments are probably derived from the same; these are comprised of up to 40% poorly sorted, angular to rounded, quartz grains with interstitial calcite cement. Overall quartz silt content for shale is approx. 5%. Mudstone is greyish-green, and generally silty (with 1-10% fine quartz grains as described), although no evidence of interlaminaton with the brown shale); sub-fissile to blocky; weakly to moderately calcareous.

30.0-35.0 m

MUDSTONE/SHALE (100%): Medium greyish-green to greenish-grey, varying from non-silty to silty (silt grains consisting of sub-rounded to rounded quartz, ≤ 0.3 mm in size, and ranging from 1-10%; average/overall quartz silt content at approx. 3%); sub-fissile to blocky; weakly to moderately calcareous. Common quartz/calcite veining as infill to possible shrinkage partings. Minor (5%) brown shale, occurring as probable cavings, hosting minor specks of very fine organic debris (no evidence of interlamination with the green mudstone/shale).

35.0-40.0 m

MUDSTONE (70%)/SHALE (30%): Mixture of green mudstone/shale and brown to grey shales (though no evidence of interlaminaton between the two). Mudstone is greyish-green with silty to non-silty laminations (silt grains consisting of sub-rounded to rounded quartz, ≤ 0.3 mm in size, and generally at 1-5%; average/overall quartz silt content at approx. 1%); sub-fissile to blocky; weakly to moderately calcareous. Brown shale varies from dark to light (tan) colored) with local interlaminations of grey shale and minor calcareous oolite; otherwise shale non-calcareous to weakly calcareous. Very minor

quartz silt (as described above) comprising part of some laminations in the shale; sub-fissile to fissile fracture.

DEER LAKE OIL & GAS INC.

Daily Geological Report for

Phase 1 of Werner-Hatch # 1 Well (Deer Lake Basin Shale-Gas Project)

Geologist: Wilson Jacobs

Date: February 13, 2010

A total of 3 Geojar samples were collected at intervals of 45-50 m, 55-60 m and 65-70 m, corresponding, in part, with bagged samples collected at regular 5 m intervals throughout. Petrographical descriptions of these are as follows:

40.0-45.0 m

MUDSTONE (100%): Greyish-green and greenish-grey mudstone (formation) with 15% cavings of angular to subrounded, red sandstone and siltstone, detrital quartz, and occasional volcanic fragments. Mudstone ranging from silty to non-silty, with very fine pyrite (locally abundant) and minor to trace specks of black organic debris; rounded quartz silt grains generally ≤ 0.3 mm in size and comprise up to 8% of some fragments (overall quartz silt content at approx. 5%); blocky fracture; weakly to moderately calcareous.

45.0-50.0 m

SHALE (100%): Mix of brown (70 %) and greyish-green (30%) shales (although no evidence of interlaminating between the two); brown shale varies from medium brown to greyish-brown in color with local/minor grey laminations; common to locally abundant, very fine, black, specks of organic material; fissile to sub-fissile fracture/cleavage; well indurated; strongly calcareous. Greyish-green shale of relatively homogeneous character with occasional specks of very fine, black, organic material, quartz silt ($\leq 1\%$) and /or pyrite supported by an otherwise pristine/clean argillaceous matrix; fissile to sub-fissile; well-indurated; strongly calcareous.

50.0-55.0 m

SHALE (100%): Interlaminated, medium brown, greyish-brown and grey shales hosting minor to common (and locally abundant), very fine, black, specks of organic material, occasional rounded, very fine, quartz silt grains ($\leq 2\%$), and rare calcareous oolite grains; fissile to sub-fissile fracture/cleavage; well indurated; weakly to moderately calcareous.

55.0-60.0 m

SHALE (100%): Mix of green (60%) and brown (40%) shales (no evidence of interlaminating between the two). Greyish-green shale of relatively homogeneous character with minor rounded, quartz silt grains (5%) and /or euhedral pyrite crystals supported by an otherwise pristine/clean argillaceous matrix; fissile to sub-fissile; well-

indurated; strongly calcareous. Brown shales consist of interlamination of medium brown, tan and greyish-brown argillaceous material with local tan-colored, calcareous, oolite; very fine, black, specks of organic material common; fissile to sub-fissile fracture/cleavage; well indurated; weak to moderately calcareous.

60.0-65.0 m

SHALE (100%): Brown (90%) and greyish-green (10%) shales (no evidence of interlaminating between the two). Browns consist of interlaminated medium-dark brown and greyish-brown shales and abundant, tan-colored, oolite; common, very fine, black, specks of organic material; fissile to sub-fissile fracture/cleavage; well indurated; weakly-moderately calcareous; oolitic laminations more strongly calcareous and host locally abundant, dark brown, bituminous material, interstitial to rounded grains. Grey-green shale of relatively homogeneous character with occasional specks of very fine, black, organic material and quartz silt (5%) in a pristine/clean argillaceous matrix; fissile to sub-fissile; well-indurated; strongly calcareous.

65.0-70.0 m

SHALE (100%): Mix of brown (60 %) and greyish-green (40%) shales (no evidence of interlaminating between the two). Browns consist of interlamination of medium brown, greyish-brown with very minor greys all of which host common to locally abundant, very fine, black, specks of organic material; fissile to sub-fissile fracture/cleavage; well indurated; strongly calcareous. Greyish-green shale of relatively homogeneous character with occasional specks of very fine, black, organic material, quartz silt (5%) and /or pyrite supported by an otherwise pristine/clean argillaceous matrix; fissile to sub-fissile; well-indurated; strongly calcareous.

DEER LAKE OIL & GAS INC.

Daily Geological Report for

Phase 1 of Werner-Hatch # 1 Well (Deer Lake Basin Shale-Gas Project)

Geologist: Wilson Jacobs

Date: February 14, 2010

Geojar sample interval changed to 5 m upon reaching the 75 m depth; thus, a total of 4 of these samples were collected at intervals 75-80 m, 80-85 m, 85-90 m and 90-95 m, corresponding with collection of bagged samples. Petrographical descriptions of the latter are as follows:

70.0-75.0 m

SHALE (100%): Much same as above; mix of brown (55%) and greyish-green (45%) shales (no evidence of interlaminating between the two). Browns consist of interlaminae of medium brown, greyish-brown with very minor greys all of which host common to locally abundant, very fine, black, specks of organic material; common tan-colored oolitic laminae hosting locally abundant, dark brown, bituminous material/oil; fissile to sub-fissile fracture/cleavage; well indurated; moderately calcareous. Greyish-green shale of relatively homogeneous character with occasional specks of very fine, black, organic material, quartz silt (5%) and/or pyrite supported by an otherwise pristine/clean argillaceous matrix; fissile to sub-fissile; well-indurated; moderately-strongly calcareous.

75.0-80.0 m

SHALE (100%): Interlaminated tan, grey and greyish-brown shale hosting moderate to locally abundant, very fine black specks and streaks of coalified organic material; local/minor silty laminae ($\leq 1\%$); fissile to sub-fissile cleavage/fracture; weakly to moderately calcareous.

80.0-85.0 m

SHALE (85%)/MUDSTONE (15%): Mix of bituminous shale and lesser mudstone. Shale is medium brown and tan in color, slightly to moderately bituminous; very fine, black, specks and streaks of coalified organic material common to locally abundant; trace to minor euhedral pyrite grains; fissile to sub-fissile fracture/cleavage; moderately indurated with a common sugary (recrystallized?) texture; moderately calcareous. Minor silty and oolitic laminae in shale, with latter commonly saturated, in part, with dark brown bituminous material (oolites < 0.25 mm in size. Mudstone is medium to light grey and greenish-grey with local quartz silt (5%) and/or very fine organic debris content; blocky fracture habit, weakly calcareous.

85.0-90.0 m

SHALE (70%)/MUDSTONE (30%): Mix of bituminous shale and lesser mudstone. Shale is medium to dark brown and tan in color due to pervasive oily/bituminous content and abnt very fine, black organic specks; fissile to subfissile fracture; moderately indurated with a sugary (recrystallized?) texture. Common bituminous oolitic laminations in shale (oolites ≤ 0.25 mm in size). Mudstone is greyish-green in color with rare/trace black organic specks in a pristine (clean) argillaceous matrix; blocky fracture habit, weakly calcareous.

90.0-95.0 m

MUDSTONE (60%)/SHALE (40%): Mix of mudstone and lesser bituminous shale. Mudstone is greyish-green and hosts common, minute, euhedral and/or aggregate pyrite grains and rare/trace organic specks in a generally pristine (clean) argillaceous matrix; blocky fracture, and weakly to moderately calcareous. Shale is medium to dark brown, sub-fissile to fissile, moderately indurated and characterized by a pervasive oily lustre with abundant, very fine, black organic specks; non-calcareous; sugary (recrystallized?) texture.

Day 1 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 11:19 PM, March 15 - 12:00 AM, March 16, 2010

Well No: Werner-Hatch # 1

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank.

Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig) and proceeded to a depth of 151.0 metres as of 12:00 am, March 16, 2010 (drill depths relative to KB).

Geological core logging has been completed to a depth of 147.45 metres, revealing alternating, roughly 1.0 to 2.0 metre wide, massive/non-laminated and laminated mudstone throughout. The mudstones occur as a repetitive sequence varying from a massive/homogeneous, greyish-green variety to a generally, well-laminated, dark brownish-grey to greyish-brown (& minor tan) colored variety, each occurring in roughly equal proportions. Both exhibit sharp and gradational contacts with the bounding unit.

Gas readings, upon initial coring began at roughly 1400 ppm (0.14%) gradually building, albeit with broad fluctuations, to a maximum observed reading of about 80,200 ppm (8.02 %). Readings now fairly consistently between 60,000 and 80,000 ppm. Negative and positive fluctuations of several percentage vary slowly and fairly regularly as expected with the consistently uniform and repetitive nature of the two distinct mudstone units. Gas analyses conducted by Weatherford (on site) reveal slightly better readings in association with the darker, laminated mudstone units as opposed to the massive green units.

March 17, 2010

Day 2 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 16 – 12:00 AM, March 17, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Core drilling proceeded from a depth of 151.0 to 203.0 metres, with geological core logging continuing to a depth of 189.5 metres. As reported previously, an alternating/repetitive sequence of massive/homogeneous (non-laminated) and well-laminated mudstone was encountered throughout. These units, again, vary mainly/roughly between 1.0 and 2.0 metres in thickness, though, occasionally, some increases in the thicknesses of the former unit is now seen, up to 5.0 metres. Also, the well-laminated units have demonstrated a general change to a darker (including common black) mudstone/shale variety, with significant increases in the content of interlaminated and interbedded brown to dark brown calcareous mudstone and associated tan-colored marl/dolostone laminae (resembling the 'Brown Beds' as reported in previous drill holes in the Deer Lake Basin). A recurring characteristic feature in the nature of the contact between the two distinct units (as seen since the start of the coring) is the presence of a generally sharp, horizontal, contact at the top of the massive homogeneous units, and a brecciated/scoured contact at the top of the well-laminated mudstone/shale units (indicative of dynamic soft-sediment deformation at the top of earlier-deposited basinal sediments). This contact relationship in addition to the repetitive/episodic depositional nature of the massive and well-laminated units leads the writer to conclude that the depositional environment is one characterized by periodic turbiditic flows; close inspection of the massive units does reveal, in places, vague outlines of a very contorted sedimentary fabric, characteristic of turbidites.

Gas readings, although considered low, continue to demonstrate a steady and gradual fluctuation of values, albeit, with a slightly lower overall concentration than previous – ranging between 55,000 (5.5%) and 70,000 ppm (7.0%). Again, gas analyses conducted by Weatherford (on site) reveal slightly better readings in association with the darker, laminated mudstone units as opposed to the massive green (turbidite) units.

March 19, 2010

Day 3 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 16 – 12:00 AM, March 17, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Core drilling proceeded from a depth of 203.0 to 252.8 metres, with geological core logging continuing to a depth of 233.0 metres. Drilling continues to encounter the same alternating/repetitive sequence of massive/homogeneous (non-laminated) and well-laminated mudstones throughout, again varying in thickness between roughly 1.0 and 3.0 metres. The well-laminated units have shown a general change back, again, to very dark greyish-green & dark brownish-green as opposed to the black encountered over the period of the last report. Occasionally, however, significant portions of these well-laminated units are seen to consist of brown to light brown and tan-colored marl/dolostone laminae. The massive to locally contorted nature of the non-laminated units and their contact relationship with the alternate (laminated) units continue to confirm their turbiditic origin.

Gas readings continue to demonstrate a steady and gradual fluctuation of values, again, with a slightly lower overall concentration than previous – between roughly 50,000 (5.0%) and 60,000 ppm (6.0%). Gas analyses, by Weatherford, continue to record minimal gas contents. Note, aberration in readings from Gas Wizard Las file at 9:00, Mar 18; this was due to a manual check of analyzer probe at mud tank, where it was temporarily taken above mud level for examination.

March 20, 2010

Day 4 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 18– 12:00 AM, March 19, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Core drilling proceeded from a depth of 252.8 to **273.81** metres, with geological core logging continuing to the same. Drilling was suspended at this depth (at 9:45 am), due to excessive pressure build-up in hole, and have not yet resumed due to difficulties in 'mudding up'. Gaseous material escaping at the flare line was determined to be non-flamable.

Geologically, the same alternating sequence of massive (non-laminated) turbiditic and well-laminated mudstones was found to persist to the current depth. No change in the rock characteristics, structurally or lithologically, has been observed that would help explain the source and/or means of the gaseous escape. Thickness of the above units continue to vary between roughly 1.0 and 3.0 metres. Color changes vary consistently (although slightly) as before. Brown to light brown and tan-colored marlstone/dolostone and stromatolitic limestone laminae (and particulate/detrital equivalents of same) are associated with most laminated units; these features may form minor occurrences (of 1-5%) scattered throughout the units or as more concentrated laminae, bands and fragments (in 0.25-0.5m wide zones), occupying up to 25% of the units. The massive to locally contorted nature of the non-laminated units and their contact relationship with the alternate (laminated) units continue to confirm their turbiditic origin. Recent set-up of a fluoroscope has revealed common, weak to moderate, greenish-yellow fluorescence throughout most laminated mudstone units.

Gas monitor readings, up to the point of drill shut-down, continued much same as before. Gas analyses, by Weatherford, continue to record minimal gas contents. Note, the steady decline of values (below about 50,000 ppm) since the time of shut-down (6:15 am, Alberta time, on gas monitor readout). Abberations in readings since that time due to mud mixing activity at tank).

March 21, 2010

Day 5 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 19 - 12:00 AM, March 20, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

No further drilling has been carried out since the last reported depth of **273.81** metres (reached at 9:45 am Mar 19). Consequently, no further geological core logging and gas monitoring is to be reported. Efforts have been ongoing to correct the well pressure/mud problem.

March 22, 2010

Day 6 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 20 - 12:00 AM, March 21, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Drilling resumed at 10:30 pm, Mar 21 (at **273.81** m depth) and reached a depth of 279.8 m as of 12:00 midnight. Geological core logging progressed to a depth of about 277.82 m up to this point. Geology remains the same. With the upstart of drilling (following its extended downtime, since 9:45 am, Mar 19), it was decided to relocate the gas monitor probe, at the mud tank, and move it directly under the outflow; this was to ascertain whether or not previous readings (and fluctuation rates) has been affected by residual gas build-up in the tank. Also given the denser mud now being used, the rate of gas release from the mud could be further inhibited contributing further to accumulative/residual values. Since and relocation of the probe, gas reading have been mainly in the range of 4800-7800 ppm, thus indicating a more realistic background or baseline by which corrections to the previous readings can be made.

Point of note (as per post-report period): a sequence of rocks, considered to be the prognosed "Brown Beds" were encountered at 291m.

March 23, 2010

Day 7 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 21 - 12:00 AM, March 22, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Drilling progressed from a depth of 279.8 m to 333.85 m, with core logging continuing to 311.39 m. Drilling was temporarily suspended from 2:30 to 5:50 am, to remove an excess build-up of well cuttings at the mud tank.

At 281.76 m, a significant change in the geology was noted, marked by a departure from the usual rhythmically-bedded, grey-green, turbiditic/laminated, mudstone-siltstone sequence to a preponderance of turbiditic siltstones (including lesser muddy siltstones), coincident, in part, with a distinctive color change to brown. The brown turbidites occur over the interval 285.3-305.9 m (20.6 m) and vary, roughly, from 1.0 m to 2.0 m in thickness (alternating, and gradational, with greyish-green equivalents). Collectively, they are referred to as the 'Brown Beds', their occurrence having been historically documented by a number of drill holes throughout the basin. They provide an important stratigraphic marker separating the 'Upper Greys' and 'Lower Greys' of the Rocky Brook Formation.

Gas readings continue to show gradual/steady fluctuations mainly within the range of 5000-8000 ppm. Irregularity in responses during the time 23:00-2:00 hrs (Alberta time, as per gas monitor) coincides with the time of rig shut-down to remove cuttings from mud tank.

Point of note (as per post-report period): a sequence of rocks, considered to be the prognosed “Brown Beds” were encountered at 291m.

March 24, 2010

Day 8 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 22 - 12:00 AM, March 23, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Drilling progressed from a depth of 333.85 m to 378.85 m, with core logging continuing to 332.97m. Considerable time was also spent at the government core library, in Pasadena (just south of Deer Lake) re-evaluating historical drill core from the Deer Lake Basin, to identify potential marker bed horizons (particularly the 'Mottled Beds' to help guide present drilling. The geology has shown a change, from the previously-reported 'predominantly turbiditic siltstones', back to a rhythmically bedded sequence of massive turbidite and laminar sediments; however, siltstone continues to comprise a significant part of the latter, with variations from silty mudstones to muddy siltstones. These vary from mainly dark greys and greenish-greys to dark greyish-browns and brownish-greys. Common weak to moderate fluorescence is associated with the latter. Gas readings have shown a general increase, for the most part (since last report), with gradual fluctuations between roughly 5000-9000 ppm. Note that in the case of sustained readings over 10,000 ppm (roughly max. 12000 ppm), these coincide with times of drill stops to circulate mud.

Point of note (as per post-report period): a cursory examination of drill core beyond that yet logged reveals a continuation of the alternating massive siltstone (turbidite) and laminated (mudstone/siltstone) sequence with some appreciable darkening of colors noted in the case of some of the laminated rocks. Interestingly, within the latest core run, an approx 2.0 m section a

dark greyish-brown laminated sediments (terminating at current depth of 399.79 m) was found to yield abundant weak to moderate fluorescence upon UV testing.

March 25, 2010

Day 9 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 23 - 12:00 AM, March 24, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Drilling progressed from a depth of 378.85 m to 409.0, with core logging continuing to 359.49 m. Drilling was halted during 10:35 am – 9.25 pm (at depth 399.85 m) to circulate, remove cuttings from mud tank and revise mud system.

The geology continues to show a rhythmically-bedded sequence of massive, grey-green and brown turbiditic siltstone and dark greenish-grey to dark grey & greyish-brown laminar siltstone/mudstone [note that since the occurrence of the 'Brown Beds' (at 285.3 m), there has been a significant increase in the silt content of the laminated rocks, giving silty mudstones and muddy siltstones]. Very little fluorescence was noted in the laminated rocks over the present report period

A significant portion of the gas read-out is nullified due to the above-mentioned, extended, drill down-time (07:00 17:55 hrs (Alta time)). And since drilling resumed, more spurious readings resulted from the fact that the mud level receded to a level below the gas probe. Since this problem has been corrected, gas readings, while drilling, now occur in the range of 13000-17000 ppm, constituting a higher background level than previously encountered. This remains unexplained as desorption analyses, by Weatherford Labs, indicate no noticeable increase in gas content.

March 26, 2010

Day 10 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 24 - 12:00 AM, March 25, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Drilling reached a final depth (TD) of 441.85 m, at 20:45 hrs (proceeding from the previously-reported depth of 409.0 m). Geological core logging continued to 377.4 m (progress has been relatively slow, here, due to required time spent researching literature and studying other drill hole sections to obtain information to aid in recognition of the 'Mottled Beds' and underlying lithologies).

The geology reveals a notable change to predominantly siltstone, locally grading to very fine grained sandstones. These vary from greyish-green to brown and reddish-brown varieties. Laminated sections are minor and relate mainly to turbiditic stream flow fabrics (within the siltstone) as opposed to the laminated mudstones seen uphole. The transition to sandy siltstones, and their commonly brown (oxidized) nature, likely, reflects a transitioning from a lacustrine to a fluvial (oxidizing) depositional environment (as characteristic of the North Brook Formation, at depth). No fluorescence was noted in the case of units logged since the last report.

Gas readings have continued fairly steadily, and roughly, within the range last report, i.e., 13000-18000 ppm. Also, no increase in gas content has been detected by Weatherford Labs desorption analyses.

March 27, 2010

Day 11 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 26 - 12:00 AM, March 27, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Geological core logging continued to 395.97 m, with geology remaining much the same (as previously reported), i.e., predominantly massive siltstone and very fine grained sandstone, however, with the latter occupying an increasing proportion of the stratigraphy. Within this sequence a couple of well-laminated, dark brown to dark greyish-brown and dark grey muddy siltstone/silty mudstone units (1.37 & 2.0 m wide) were observed having abundant marlstone and stromatolite laminae, with weak to moderate UV fluorescence associated throughout.

Weatherford Labs personnel has demobilized from site, thus, no desorption analyses are being conducted on the remaining core. Although no further drilling is being done, the gas monitor remains engaged, as a safety precaution, while the drill hole is being conditioned in preparation for down-hole well logging, to be performed by Schlumberger on March 27th.

March 29, 2010

Day 12 Geological Report on Well Progress for Werner-Hatch # 1, Deer Lake Basin, Western Newfoundland

Geologist: Wilson Jacobs

Prep For: Deer Lake Oil & Gas Inc.

Report Period: 12:00 AM, March 27 - 12:00 AM, March 28, 2010

Well No: Werner-Hatch # 1

Drilling Company: Logan Drilling Ltd

Formation: Rocky Brook

Ground Elevation: 43.5 Metres

KB: 3.24 Metres

Core Size: HQ

Well Location: Deer Lake Basin, Western Newfoundland UTM: 5451498 N, 474768 E

Preliminary

[Drill coring and geological well-logging operations commenced on Werner-Hatch # 1, at 11:19 pm, March 15, at which time a gas detector was activated to monitor gas concentrations at the mud tank. Core drilling began at a depth of 101.0 m (at base of surface hole/casing set by a water well rig). All drill depths reported are given in relation to KB].

UPDATE:

Geological core logging was completed to TD (depth 444.85 m) at 16:00 hrs, March 28th. The geology has continued to reveal predominantly massive units of greyish-green & brown siltstones, grading locally to sandy siltstones and very fine-grained, poorly-sorted, silty sandstones (however, sandstone predominates from the last reported depth, of 395.97 m, to 406.0 m). Within the siltstones, sparse to locally abundant, coarse-grained, angular to sub-rounded, quartz grains are generally scattered throughout. Again, several well-laminated, 0.6-2.75 m wide, dark brown to dark greyish-brown and dark grey siltstone units (with minor silty mudstone) occur interbedded with the massive units. These generally host minor to locally abundant stromatolite laminae. Two of the units reveal faint to moderate UV fluorescence.

The 'Mottled Beds' are interpreted to comprise the interval 428.07-436.0 m. A distinct mottled coloration pattern occurs here defined by red to reddish-brown oxidation effects ranging from selective, though irregular (small-scale), replacement along (and across) laminations within some bluish-grey laminated siltstone units, and blotchy replacement (with patches up to several cm) within the massive units. Also, within the latter, oxidation is also seen to form replacement around vaguely-distinct breccia fragments. The oxidation is likely related to oxidizing fluids penetrating into (formerly chemically-reduced) sediments that have undergone tectonic uplift

(into an oxidizing environment) as associated with the rifted eastern margin of the Deer Lake Basin.

The top of the 'Red Beds' are interpreted to be at 440.63 m and continues to TD (444.84 m). It is characterized by a massive, uniform, reddish-brown, siltstone unit.

The core shack has been remobilized from site (with the boxed core) as no further geological work is required.

ATTACHMENT # 5
Geological Strip Log

DEER LAKE OIL & GAS INC.				DRILL CORE RECORD				WELL NAME: Werner-Hatch # 1				P. 1 of 46												
Name of Property: Deer Lake Basin				Location: Western Nfld		NTS: 12H/3		Depth (m)		Dip	Azimuth	Remarks: Coring operations commenced at 23:19 hrs, Mar 15,												
UTM Coordinates: 474768 E, 5451498 N						Casing: 101.0 m		-90 deg		N/A		and terminated at 20:45 hrs, Mar 24, 2010												
KB: 3.24 m		Ground Elevation: 43.5 m				TD: 441.84						Drilled By: Logan Drilling Ltd		Logged By: W . Jacobs										
Core Recovery:				Core Size: HQ								Date Drilled: March 15-24, 2010												
Meterage (m)		Total Meterage to date (12:00 pm, March 16, 2010)				Sample No.		Interval (m)																
From	To							Description			From	To	Width											
0	101	Casing 0.00-27.4 m Overburden (Glacial Till) Rocky Brook Formation Upper Greys 27.4-101.0 m Water-well cuttings through sequence of mudstones/shales. (See Geological Reports dated Feb 12-14, 2010).																						
101	108.0																				<u>Mudstone</u> 101.0-101.2 m: Greenish-black, non-laminated, massive/ homogeneous (relatively non-descript) character; moderately to strongly calcareous.Gradational into greyish-green mudstone below. 101.2-.103.6 m: Greyish-green, mudstone to silty mudstone, massive, non-laminated (as above). Very fine qtz silt particles and 5-8 % pyrite xtals assoc with silty sections (py generally fine to very fine with local concretions up to 1 cm in size.Mod - strongly calcareous. 103.6- 105.35 m: Dark greyish-brown/brownish-grey to black, finely laminated (dom 1-3 mm wide bands at 80 to 90 deg to core axis (CA). Local microfractures exhibiting very minor offsets Locally abnt tan-colored carbonate mat occuring along laminations and as irregular cross-cutting lenses up to 1 cm wide.			

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

DEER LAKE OIL & GAS INC.				DRILL CORE RECORD				DRILL HOLE: Werner-Hatch # 1				P. 15 of 46				
Meterage (m)		Description	Sample No.	Interval (m)												
From	To			From	To	Width										
195.1	196.35	Turbiditic Mudstone Greyish-green; massive, 1-4% v.fine gr pyrite as well as occas cse blebs. At 193.45-193.67m, brecciated frags of underlying laminated mudstone unit.														
196.4	198	Laminated Mudstone Same as at 194.3-195.1 above: Top of unit shows scouring and brecciation due to depositional impact of overlying turbiditic sediment. Common small-scale slumping & breakage of some thin laminae. Mod-str calcareous. Browns constituting about 30% of unit.														
		197.5-198m Rectilinear microfracturing (i.e., parallel and perpendicular to CA)														
198	199.25	Turbiditic Mudstone Greyish-green, massive, 1-4% v.fine gr pyrite as well as occas cse blebs. Locally recognized, faintly-discernable, contorted sedimentary fabric.														
199.25	199.67	Laminated Mudstone Same as at 196.4-198.0m above. Soft-sed brecciation due to depositional impact of overlying turbiditic sediment.														
199.67	200.3	Cut/Sampled Section														
200.3	201.29	Laminated Mudstone Likely continuation of above lam sect (above sample cut). Abnt particulate-textured tan to brown-colored laminae (alternating with black mudstone), consisting of detrital, fine to cse, limestone frags. Black mdst aften passing into brown-dominated dolostone laminae/bands (up to 30% of unit. Com small-scale slumping and														

[illegible]

[illegible]

DEER LAKE OIL & GAS INC.				DRILL CORE RECORD			DRILL HOLE: Werner-Hatch # 1				P. 18 of 46					
Meterage (m)		Description	Sample No.	Interval (m)												
From	To			From	To	Width										
217.67	218.3	Cut/Sampled Sect.														
218.3	220.24	Turbiditic Mudstone As above, though back to typical greyish-green color, and with local minor pitting of core surface as described above. Mod-strongly calcareous.														
220.24	221.72	Laminated Mudstone As in previous laminated unit: Dk greenish-gy, dk greyish-green & greyish-brown, finely laminated (90° to CA). Mnr thin stromatolitic 1st laminae. Rectilinear microfractures throughout at roughly 1-2cm spacings.														
221.72	223.67	Turbiditic Mudstone As above, though back to typical greyish-green color, and with local minor pitting of core surface as described above (more intense 'pitting' at bottom 10 cm).														
223.67	224.3	Cut/Sampled Sect.														
224.3	225	Laminated Mudstone Dk greenish-gy, dk greyish-green & greyish-brown, finely laminated (90° to CA). Local/mnr concentrations of tan-colored 1st laminae.														
225	227.1	Turbiditic Mudstone Greyish green, massive; angular frags of underlying laminated unit incorporated into bottom 10 cm sect of unit due to turbiditic disruption of same.														
227.1	229.1	Laminated Mudstone Generally v. dk greenish to brownish-grey except for predom dk brownish sects up to 30 cm wide locally; finely laminated (90° to CA); A 2.0-3.5 cm wide, tan-brown colored, particulate (detrital) 1st seam at 227.91-227.94m (with accompanying stromatolitic														

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

DEER LAKE OIL & GAS INC.				DRILL CORE RECORD				DRILL HOLE: Werner-Hatch # 1				P. 25 of 46				
Meterage (m)		Description	Sample No.	Interval (m)												
From	To			From	To	Width										
		Top of Brown Beds														
		285.3-286.65 m: Brown Turbiditic Silty Mudstone														
		Dull greyish-brown to dk brown, massive (non-laminated), weakly calcaeous. Very fine recognizable silt particles. Very fine black specks of (organic?) mat, at 2-4%. Gradational with green silty mdst below.No fluors.														
		286.65-287.98 m: Green Turbiditic Silty Mudstone														
		Med greyish-green, massive. Gradational with brown silty mdst/muddy sltst below. No fluors.														
		287.98-289.35 m: Brown Turbiditic Silty Mudstone/Muddy Siltstone														
		Dull greyish-brown to dk brown as above the preceding green, massive (non-laminated), weakly calcareous. Abnt recognizable silt particles (occas qtz grains up to 1 mm). Very fine black specks of (organic?) mat at 4-7%. Gradational with green silty mdst below. No fluors.														
		289.35-290.87 m: Green Turbiditic Silty Mdst /Muddy Siltstone														
		Med greyish-green, massive.Gradational with brown silty mdst/muddy sltst below. Wk-mod calcareous. No fluors.														
		290.87-290.97 m: Brown Turbiditic Silty Mdst/Muddy Siltstone														
	Same as brown units above; massive, non-descript, non-fluors.															
	290.97-291.3 m: Cut/Sampled Section.															
291.3	292.2	Brown Turbiditic Silty Mudstone/Muddy Siltstone														
		Brown to maroonish-brown, massive, homogeneous. Gradational with green mdst below. Wk-mod calcareous. Grad contact with zone below. No fluors.														
292.2	293.17	Green Turbiditic Mudstone														
		Greyish-green, massive.Obscure, dark-colored contact with laminated unit below. Wk-mod calcareous. No fluors.														

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

ATTACHMENT # 6
Weatherford Field Report



Weatherford®
LABORATORIES

Field Report
Summary of Field Operations

Deer Lake Oil & Gas
Werner Hatch No. 1
Rocky Brook Formation
Deer Lake Basin
Newfoundland, Canada

Submitted to:
Mr. Cabot Martin
Deer Lake Oil & Gas

Prepared By:
Jason Baker
Weatherford Laboratories
Project No. 46499

April 5, 2010

Weatherford Laboratories Disclaimer

LEGAL NOTICE: This report was prepared by Weatherford Laboratories as an account of work performed for the client and is intended for informational purposes only. Any use of this information in relation to any specific application should be based on an independent examination and verification of its applicability for such use by professionally qualified personnel. Neither Weatherford Laboratories, nor any persons or organizations acting on its behalf:

- a. Makes any warranty or representation, expressed or implied, with respect to the accuracy, completeness, or usefulness of the information contained in this report; or
- b. Assumes any liability with respect to the use of, or for damages resulting from the use of, any information, apparatus, method, or process disclosed in this report.

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION.....	1
2.0 FIELD OPERATIONS	4
3.0 SAMPLE COLLECTION.....	8

LIST OF TABLES

	<u>Page</u>
Table 1-1 Well and Formation Summary.....	2
Table 2-1 Summary of Core Runs 1	5
Table 2-2 Summary of Core Runs 2.....	6
Table 2-3 Summary of Core Runs 3.....	7
Table 3-1 Summary of Gas Content Sample Collection.....	9
Table 3-2 Summary of Preserved Sample Collection	10

LIST OF FIGURES

	<u>Page</u>
Figure 1-1 Well Location Map	3

LIST OF APPENDICES

Appendix I	Core Operations
Appendix II	Daily Field Reports
Appendix III	Core Photography
Appendix IV	Core Inventory

1.0 INTRODUCTION

This report summarizes the field sample and data collection performed during the wireline coring of the Rocky Brook Formation at the Werner Hatch No. 1 well operated by Deer Lake Oil & Gas. This well is located in Newfoundland, Canada as illustrated in Figure 1-1. At the request of Mr. Cabot Martin, Deer Lake Oil & Gas, Weatherford Laboratories (WFT Labs) collected core samples for canister gas content, preservation and resource evaluation of the Rocky Brook Formation. WFT Labs personnel were on location from March 8, 2010 through March 25, 2010. Twenty-nine canister gas samples and forty-eight preservation samples were collected during this period. All depths referenced in this report are based on driller's depths from kelly bushing (KB). Table 1-1 is a summary of the well and Rocky Brook Formation information.

On March 8, 2010, Cabot Martin supplied WFT Labs with a bottom hole temperature of 44.0°C at a depth of 1,575.0 meters from an offset well. This information in conjunction with a mean annual surface temperature of 3.45°C¹ was used to calculate a gradient of 1.42°F/100 feet. This gradient was used to determine the appropriate temperature for the canister gas measurements of the core samples.

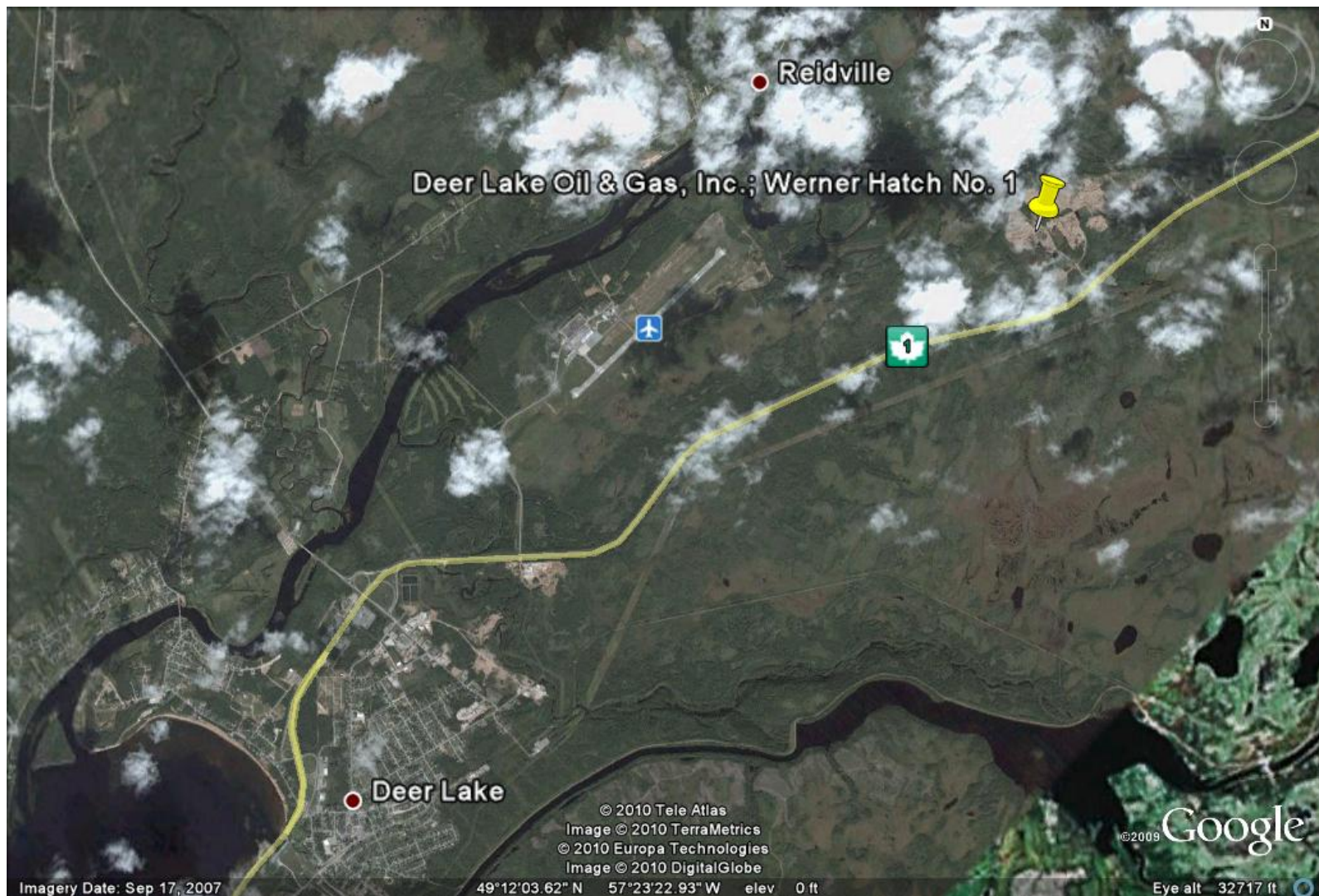
Reservoir pressure data had not been received prior to the preparation of this report. An assumed pressure gradient of 0.433 psi/ft will be used until Deer Lake Oil & Gas provides a different number.

¹ *Weather.com*. (1995-2009). Retrieved 03/15/2010, from <http://www.weather.com/outlook/travel/businesstraveler/monthly/CAXX0112>

Table 1-1 Well and Formation Summary

Well Name: Werner Hatch No. 1	Country: Canada	
Operator: Deer Lake Oil & Gas	Province: Newfoundland	
Basin: Deer Lake	Coordinates: 49°13'5.78"N / 57°20'40.53"W	
Formation Name: Rocky Brook Formation	Elevation, KB: 25.7 meters	
Reservoir Properties	Units	Value
Rocky Brook Formation		
Formation Top (Cored Interval, Drill Depth, KB)	meters	106.40
Formation Bottom (Cored Interval, Drill Depth, KB)	meters	419.00
Reservoir Temperature	°C	11.5
Reservoir Pressure Gradient	psi/ft	0.433
Reservoir Pressure (midpoint depth- 262.70 meters)	psia	387.88

Figure 1-1 Well Location Map



(Google Earth™ mapping services)

2.0 FIELD OPERATIONS

Drilling and Coring Operations

Logan Drilling (Rig Hydro 44) from Halifax, Nova Scotia conducted the drilling operations. Deer Lake Oil & Gas representatives on location were Cabot Martin and Stan Podulsky. Core point (101.0 meters) was reached on March 16, 2010 and coring operations began on the same day. Logan Drilling conducted the coring operations. Tools used for coring operations included a 2.5-inch Fordia-Shark 2 HQ coring bit, and a 3.0 meter wireline barrel with a solid steel inner barrel and no inner liner. Coring fluid was composed of water-based polymer with an average mud weight of $1,100.0 \text{ kg/m}^3$. A total of 115 wireline core runs were completed. The interval from 101.0 through 441.85 meters was continuously cored. At 09:45:00 on March 19, a possible Nitrogen pocket was encountered during core run fifty-nine. Coring operations were suspended until the mud weight could be raised from $1,100.0 \text{ kg/m}^3$ to $1,300.0 \text{ kg/m}^3$. Core run sixty began at 22:00:00 on March 21, 2010 and coring operations continued until completion on March 25, 2010.

All core runs are summarized in Table 2-1 through 2-3. See Appendices I and II (Core Operations and Daily Field Reports) for a more detailed account of coring operations.

Table 2-1 Summary of Core Runs 1

Core Run	Cored Interval TOP	Cored Interval BOTTOM	Length Cored	Recovered Interval TOP	Recovered Interval BOTTOM	Length Recovered	Core Recovery Success	Core Recovery Time	Fluid Density	Number of Samples
#	meters	meters	meters	meters	meters	meters	%	hh:mm:ss	kg/m ³	#
Rocky Brook Formation										
1	101.00	101.04	0.04	101.00	101.04	0.04	100.00	0:30:00	11	
2	101.04	102.85	1.81	101.04	102.85	1.81	100.00	0:09:00	11	
3	102.85	105.87	3.02	102.85	105.87	3.02	100.00	0:02:00	11	
4	105.87	108.85	2.98	105.87	108.81	2.94	98.66	0:02:00	11	1
5	108.85	111.85	3.00	108.81	111.85	3.04	101.33	0:02:00	11	
6	111.85	114.85	3.00	111.85	114.76	2.91	97.00	0:02:00	11	1
7	114.85	117.90	3.05	114.85	117.90	3.05	100.00	0:02:00	11	
8	117.90	120.88	2.98	117.90	120.88	2.98	100.00	0:02:00	11	1
9	120.88	123.85	2.97	120.88	123.85	2.97	100.00	0:02:00	11	
10	123.85	126.85	3.00	123.85	126.85	3.00	100.00	0:02:00	11	1
11	126.85	129.85	3.00	126.85	129.85	3.00	100.00	0:02:00	11	
12	129.85	132.90	3.05	129.85	132.90	3.05	100.00	0:03:00	11	1
13	132.90	135.82	2.92	132.90	135.82	2.92	100.00	0:02:00	11	
14	135.82	138.84	3.02	135.82	138.84	3.02	100.00	0:02:00	11	1
15	138.84	141.83	2.99	138.84	141.83	2.99	100.00	0:02:00	11	
16	141.83	144.82	2.99	141.83	144.82	2.99	100.00	0:03:00	11	1
17	144.83	147.77	2.94	144.83	147.77	2.94	100.00	0:02:00	11	
18	147.83	150.83	3.00	147.77	150.75	2.98	99.33	0:02:00	11	1
19	150.83	153.83	3.00	150.83	153.83	3.00	100.00	0:02:00	11	
20	153.83	156.83	3.00	153.83	156.80	2.97	99.00	0:49:00	11	
21	156.83	159.83	3.00	156.80	159.83	3.03	101.00	0:02:00	11	1
22	159.83	162.83	3.00	159.83	162.83	3.00	100.00	0:02:00	11	
23	162.83	165.85	3.02	162.83	165.85	3.02	100.00	0:02:00	11	1
24	165.85	168.81	2.96	165.85	168.81	2.96	100.00	0:02:00	11	
25	168.81	171.81	3.00	168.81	171.81	3.00	100.00	0:03:00	11	1
26	171.81	174.82	3.01	171.81	174.82	3.01	100.00	0:03:00	11	
27	174.82	177.88	3.06	174.82	177.88	3.06	100.00	0:03:00	11	1
28	177.88	180.91	3.03	177.88	180.91	3.03	100.00	0:03:00	11	
29	180.91	183.84	2.93	180.91	183.84	2.93	100.00	0:02:00	11	1
30	183.84	186.87	3.03	183.84	186.87	3.03	100.00	0:02:00	11	
31	186.87	189.83	2.96	186.87	189.83	2.96	100.00	0:03:00	11	1
32	189.83	192.85	3.02	189.83	192.85	3.02	100.00	0:12:00	11	
33	192.85	195.90	3.05	192.85	195.90	3.05	100.00	0:02:00	11	1
34	195.90	198.85	2.95	195.90	198.85	2.95	100.00	0:02:00	11	
35	198.85	201.85	3.00	198.85	201.85	3.00	100.00	0:02:00	11	1
36	201.85	204.85	3.00	201.85	204.85	3.00	100.00	0:03:00	11	
37	204.85	207.85	3.00	204.85	207.85	3.00	100.00	0:02:00	11	1

Table 2-2 Summary of Core Runs 2

Core Run	Cored Interval TOP	Cored Interval BOTTOM	Length Cored	Recovered Interval TOP	Recovered Interval BOTTOM	Length Recovered	Core Recovery Success	Core Recovery Time	Fluid Density	Number of Samples
#	meters	meters	meters	meters	meters	meters	%	hh:mm:ss	kg/m ³	#
Rocky Brook Formation										
38	207.85	210.85	3.00	207.85	210.85	3.00	100.00	0:02:00	11	
39	210.85	213.85	3.00	210.85	213.85	3.00	100.00	0:03:00	11	1
40	213.85	216.81	2.96	213.85	216.81	2.96	100.00	0:03:00	11	
41	216.81	219.84	3.03	216.81	219.84	3.03	100.00	0:03:00	11	1
42	219.84	222.84	3.00	219.84	222.84	3.00	100.00	0:03:00	11	
43	222.84	225.84	3.00	222.84	225.84	3.00	100.00	0:02:00	11	1
44	225.84	228.83	2.99	225.84	228.83	2.99	100.00	0:02:00	11	
45	228.83	231.85	3.02	228.83	231.85	3.02	100.00	0:02:00	11	1
46	231.85	234.83	2.98	231.85	234.83	2.98	100.00	0:02:00	11	
47	234.83	237.81	2.98	234.83	237.81	2.98	100.00	0:02:00	11	
48	237.81	240.81	3.00	237.81	240.81	3.00	100.00	0:02:00	11	
49	240.81	243.79	2.98	240.81	243.79	2.98	100.00	0:03:00	11	1
50	243.79	246.76	2.97	243.79	246.76	2.97	100.00	0:03:00	11	
51	246.76	249.85	3.09	246.76	249.85	3.09	100.00	0:03:00	11	
52	249.85	252.80	2.95	249.85	252.80	2.95	100.00	0:02:00	11	
53	252.85	255.85	3.00	252.85	255.85	3.00	100.00	0:03:00	11	
54	255.85	258.85	3.00	255.85	258.85	3.00	100.00	0:03:00	11	
55	258.85	261.85	3.00	258.85	261.85	3.00	100.00	0:03:00	11	
56	261.85	264.85	3.00	261.85	264.85	3.00	100.00	0:03:00	11	
57	264.85	267.85	3.00	264.85	267.85	3.00	100.00	0:03:00	11	1
58	267.85	270.85	3.00	267.85	270.81	2.96	98.67	0:03:00	11	
59	-	-	-	-	-	-	-	-	-	
59	270.85	273.85	3.00	270.85	273.81	2.96	98.67	0:07:00	11	1
60	273.85	276.85	3.00	273.81	276.88	3.07	102.33	0:03:00	13	1
61	276.85	279.85	3.00	276.88	279.77	2.89	96.33	0:03:00	13	
62	279.85	282.85	3.00	279.77	282.84	3.07	102.33	0:03:00	13	
63	282.85	285.85	3.00	282.84	285.88	3.04	101.33	0:03:00	13	
64	285.85	288.85	3.00	285.88	288.82	2.94	98.00	0:03:00	13	
65	288.85	291.85	3.00	288.82	291.80	2.98	99.33	0:03:00	13	
66	291.85	294.85	3.00	291.80	294.81	3.01	100.33	0:02:00	13	
67	294.85	297.85	3.00	294.81	297.81	3.00	100.00	0:02:00	13	
68	297.85	300.85	3.00	297.81	300.82	3.01	100.33	0:03:00	13	
69	300.85	303.85	3.00	300.82	303.86	3.04	101.33	0:03:00	13	
70	303.85	306.85	3.00	303.86	306.86	3.00	100.00	0:04:00	13	
71	306.85	309.85	3.00	306.86	309.82	2.96	98.67	0:03:00	13	
72	309.85	312.85	3.00	309.82	312.81	2.99	99.67	0:03:00	13	
73	312.85	315.85	3.00	312.81	315.88	3.07	102.33	0:03:00	13	
74	315.85	318.85	3.00	315.88	318.75	2.87	95.67	0:03:00	13	

Table 2-3 Summary of Core Runs 3

Core Run	Cored Interval TOP	Cored Interval BOTTOM	Length Cored	Recovered Interval TOP	Recovered Interval BOTTOM	Length Recovered	Core Recovery Success	Core Recovery Time	Fluid Density	Number of Samples
#	meters	meters	meters	meters	meters	meters	%	hh:mm:ss	kg/m ³	#
Rocky Brook Formation										
75	318.85	321.85	3.00	318.75	321.83	3.08	102.67	0:03:00	13	
76	321.85	324.85	3.00	321.83	324.83	3.00	100.00	0:03:00	13	
77	324.85	327.85	3.00	324.83	327.82	2.99	99.67	0:03:00	13	
78	327.85	330.85	3.00	327.82	330.85	3.03	101.00	0:03:00	13	
79	330.85	333.85	3.00	330.85	333.74	2.89	96.33	0:03:00	13	
80	333.85	336.85	3.00	333.85	336.85	3.00	100.00	0:05:00	13	
81	336.85	339.85	3.00	336.85	339.70	2.85	95.00	0:03:00	13	
82	339.85	342.85	3.00	339.70	342.82	3.12	104.00	0:03:00	13	
83	342.85	345.85	3.00	342.82	345.80	2.98	99.33	0:03:00	13	
84	345.85	348.85	3.00	345.80	348.73	2.93	97.67	0:04:00	13	
85	348.85	351.85	3.00	348.73	351.84	3.11	103.67	0:04:00	13	
86	351.85	354.85	3.00	351.84	354.78	2.94	98.00	0:04:00	13	
87	354.85	357.85	3.00	354.78	357.76	2.98	99.33	0:05:00	13	
88	357.85	360.85	3.00	357.76	360.72	2.96	98.67	0:06:00	13	
89	360.85	363.85	3.00	360.72	363.80	3.08	102.67	0:06:00	13	
90	363.85	366.85	3.00	363.80	366.76	2.96	98.67	0:05:00	13	
91	366.85	369.85	3.00	366.85	369.81	2.96	98.67	0:05:00	13	
92	369.85	372.85	3.00	369.81	372.89	3.08	102.67	0:07:00	13	
93	372.85	375.85	3.00	372.89	375.90	3.01	100.33	0:05:00	13	
94	375.85	378.85	3.00	375.90	378.91	3.01	100.33	0:05:00	13	1
95	378.85	381.85	3.00	378.91	381.83	2.92	97.33	0:04:00	13	
96	381.85	384.85	3.00	381.83	384.81	2.98	99.33	0:04:00	13	
97	384.85	387.85	3.00	384.81	387.79	2.98	99.33	0:04:00	13	
98	387.85	390.85	3.00	387.79	390.72	2.93	97.67	0:04:00	13	
99	390.85	393.85	3.00	390.72	393.83	3.11	103.67	0:10:00	13	
100	393.85	396.85	3.00	393.83	396.74	2.91	97.00	0:06:00	13	
101	396.85	399.85	3.00	396.74	399.79	3.05	101.67	0:07:00	13	1
102	399.85	402.85	3.00	399.79	402.72	2.93	97.67	0:05:00	13	
103	402.85	405.85	3.00	402.72	405.78	3.06	102.00	0:05:00	13	
104	405.85	408.85	3.00	405.78	408.80	3.02	100.67	0:05:00	13	
105	408.85	411.85	3.00	408.80	411.74	2.94	98.00	0:04:00	13	
106	411.85	414.85	3.00	411.74	414.76	3.02	100.67	0:04:00	13	
107	414.85	417.85	3.00	414.76	417.81	3.05	101.67	0:05:00	13	
108	417.85	420.85	3.00	417.81	420.77	2.96	98.67	0:05:00	13	1
109	420.85	423.85	3.00	420.77	423.76	2.99	99.67	0:05:00	13	
110	423.85	426.85	3.00	423.76	426.74	2.98	99.33	0:06:00	13	
111	426.85	429.85	3.00	426.74	429.74	3.00	100.00	0:07:00	13	
112	429.85	432.85	3.00	429.74	432.85	3.11	103.67	-	13	
113	432.85	435.85	3.00	432.85	435.84	2.99	99.67	-	13	
114	435.85	438.85	3.00	435.84	438.84	3.00	100.00	-	13	
115	438.85	441.85	3.00	438.84	441.84	3.00	100.00	-	13	
Total	-		340.73	-		340.37	99.90	-	-	29

3.0 SAMPLE COLLECTION

Gas Content Analysis Samples

Twenty-nine (2.5-inch diameter) core samples, thirty centimeters in length, were collected from the cored interval between 106.40 and 419.00 meters for gas content analysis as summarized in Table 3-1. Two of the gas content analysis samples were selected for gas composition. All canisters were filled with inert silica beads in order to reduce headspace volume in the canisters. This increases the accuracy of the gas content analysis measurements, maximizes the quality of gas samples collected for compositional analysis, and reduces oxidation and desiccation of the shale. Samples were then placed in water baths to closely approximate reservoir temperature (17°C) and gas content analysis continued for a minimum of 24 hours in the field. After field readings were completed all samples were iced down to inhibit gas production during transport. Upon arrival at the laboratory on March 29, 2010, all samples were removed from desorption canisters and returned to core boxes.

A calibrated digital scale was used to weigh the samples before sealing. The measured weights and calculated densities provided represent canistered material at the time of sample collection. Field measurements are preliminary and subject to revision once the samples are removed from the canisters and reweighed in the laboratory. These values assist early estimations of measured gas content. The first 24 hours of measured gas volumes are presented. **Early measured gas volumes provide sample comparisons and should not be used for gas content estimation as the gas content analysis is incomplete.**

Preserved Samples (Whole Core)

Forty-eight (2.5-inch diameter) core samples, thirty centimeters in length, were collected from the cored interval adjacent below each gas content analysis sample and preserved on site as summarized in Table 3-2. Whole core samples were preserved using saran wrap, aluminum foil and core seal heat strippable plastic. Preserved samples will be used for additional analyses at Weatherford Laboratories in Houston, Texas.

A three centimeter sample was collected adjacent to every whole core preserved sample in order to enable future gas composition analysis work from these depths. All samples were preserved in Geojars on location.

A calibrated digital scale was used to weigh the samples before sealing. The measured weights provided represent the preserved material at the time of sample collection. Field measurements are preliminary and subject to revision once the samples are reweighed in the laboratory.

Table 3-1 Summary of Gas Content Sample Collection

Sample ID	Canister Number	Measured Depth TOP meters	Measured Depth BOTTOM meters	Measured Sample Length centimeters	Raw Sample Weight grams	Calculated Sample Density g/cm ³	Measured Gas Volume (first 24hrs) ml	Bath Temp. °C	Special Testing	Core Run	Date / Time Canister Sealed date hh:mm:ss
Rocky Brook Formation											
46499-1	4-9	106.40	106.70	30.0	2,397	2.52	40.7	17	GC	4	3/16/2010 05:16:20
46499-2	4-14	112.70	113.00	30.0	2,370	2.49	31.5	17		6	3/16/2010 06:44:08
46499-3	4-23	118.70	119.00	30.0	2,211	2.33	27.3	17		8	3/16/2010 09:20:58
46499-4	4-24	124.70	125.00	30.0	2,298	2.42	15.4	17		10	3/16/2010 12:34:42
46499-5	4-42	130.70	131.00	30.0	2,293	2.41	27.0	17		12	3/16/2010 14:21:06
46499-6	4-47	136.70	137.00	30.0	2,374	2.50	8.9	17		14	3/16/2010 16:54:32
46499-7	4-60	142.70	143.00	30.0	2,284	2.40	2.7	17		16	3/16/2010 20:19:02
46499-8	4-66	149.70	150.00	30.0	2,334	2.46	28.8	17		18	3/16/2010 22:31:01
46499-9	4-67	157.40	157.70	30.0	2,402	2.53	26.5	17		21	3/17/2010 04:24:04
46499-10	4-71	163.40	163.70	30.0	2,310	2.43	8.9	17		23	3/17/2010 06:28:57
46499-11	4-72	169.40	169.70	30.0	2,392	2.52	40.3	17		25	3/17/2010 10:06:34
46499-12	4-73	175.40	175.70	30.0	2,435	2.56	37.2	17		27	3/17/2010 12:46:45
46499-13	4-77	181.40	181.70	30.0	2,395	2.52	21.2	17		29	3/17/2010 13:57:02
46499-14	4-93	187.40	187.70	30.0	2,290	2.41	9.7	17		31	3/17/2010 18:27:23
46499-15	4-99	193.70	194.00	30.0	2,301	2.42	21.1	17		33	3/17/2010 21:28:06
46499-16	4-102	199.70	200.00	30.0	2,408	2.53	16.3	17		35	3/17/2010 23:40:37
46499-17	4-101	205.70	206.00	30.0	2,437	2.57	20.4	17		37	3/18/2010 02:15:45
46499-18	4-103	211.03	211.33	30.0	2,348	2.47	19.9	17		39	3/18/2010 05:21:03
46499-19	4-104	217.70	218.00	30.0	2,233	2.35	13.9	17		41	3/18/2010 09:21:57
46499-20	4-111	223.70	224.00	30.0	2,388	2.51	6.3	17		43	3/18/2010 12:19:40
46499-21	4-116	229.70	230.00	30.0	2,497	2.63	5.1	17	GC	45	3/18/2010 15:33:30
46499-22	4-125	235.70	236.00	30.0	2,372	2.50	10.0	17		47	3/18/2010 17:29:32
46499-23	4-129	243.00	243.30	30.0	2,266	2.39	8.2	17		49	3/18/2010 20:22:32
46499-24	4-131	266.30	266.60	30.0	2,444	2.57	0.0	17		57	3/19/2010 06:48:42
46499-25	4-134	273.33	273.63	30.0	2,337	2.46	34.3	17		59	3/20/2010 05:36:50
46499-26	4-143	274.70	275.00	30.0	2,364	2.49	16.8	17		60	3/22/2010 00:18:09
46499-27	4-145	378.00	378.30	30.0	2,420	2.55	52.7	17		94	3/24/2010 00:26:59
46499-28	4-147	399.00	399.30	30.0	2,337	2.46	63.0	17		101	3/24/2010 11:05:19
46499-29	4-156	418.70	419.00	30.0	2,362	2.49		17		108	3/25/2010 05:47:00
Averages and Totals	-	-	-	870	2,355	2.48	21.9	-	-	-	-

Notes: GC = Gas Composition Sample

Table 3-2 Summary of Preserved Sample Collection

Sample ID	Core Run	Top Depth	Bottom Depth	Sample Length	Sample Weight	Date / Time Sample Preserved	Comments
#	#	meters	meters	Centimeters	grams	date hh:mm:ss	
46499-WC-1	4	106.70	107.00	30	2,336	03/16/2010 05:25:00	
46499-WC-2	6	113.00	113.30	30	2,334	03/16/2010 06:55:00	
46499-WC-3	8	119.00	119.30	30	2,323	03/16/2010 09:23:00	
46499-WC-4	10	125.00	125.30	30	2,300	03/16/2010 12:37:00	
46499-WC-5	12	131.00	131.30	30	2,341	03/16/2010 14:24:00	
46499-WC-6	14	137.00	137.30	30	2,364	03/16/2010 16:55:00	
46499-WC-7	16	143.00	143.30	30	2,272	03/16/2010 20:30:00	
46499-WC-8	18	150.00	150.30	30	2,154	03/16/2010 22:40:00	
46499-WC-9	21	157.70	158.00	30	N/A	03/17/2010 04:30:00	No weight or photograph available
46499-WC-10	23	163.70	164.00	30	2,356	03/17/2010 06:45:00	
46499-WC-11	25	169.70	170.00	30	2,247	03/17/2010 10:04:00	
46499-WC-12	27	175.70	176.00	30	2,519	03/17/2010 12:39:00	
46499-WC-13	29	181.70	182.00	30	2,343	03/17/2010 15:51:00	
46499-WC-14	31	187.70	188.00	30	2,235	03/17/2010 18:22:00	
46499-WC-15	33	194.00	194.30	30	2,230	03/17/2010 21:35:00	
46499-WC-16	35	200.00	200.30	30	2,251	03/17/2010 23:47:00	
46499-WC-17	37	206.00	206.30	30	2,374	03/18/2010 02:19:00	
46499-WC-18	39	211.33	211.63	30	2,356	03/18/2010 05:30:00	
46499-WC-19	41	218.00	218.30	30	2,301	03/18/2010 09:12:00	
46499-WC-20	43	224.00	224.30	30	2,452	03/18/2010 12:21:00	
46499-WC-21	45	230.00	230.30	30	2,455	03/18/2010 15:40:00	
46499-WC-22	47	236.00	236.30	30	2,375	03/18/2010 17:22:00	
46499-WC-23	49	243.30	243.60	30	2,108	03/18/2010 20:30:00	
46499-WC-24	57	266.60	266.90	30	2,125	03/19/2010 06:50:00	
46499-WC-25	59	273.00	273.30	30	2,138	03/20/2010 04:50:00	
46499-WC-26	60	275.00	275.30	30	2,360	03/22/2010 00:25:00	
46499-WC-27	63	285.00	285.30	30	2,363	03/22/2010 03:30:00	
46499-WC-28	65	291.00	291.30	30	2,368	03/22/2010 05:30:00	
46499-WC-29	67	297.00	297.30	30	2,385	03/22/2010 08:44:00	
46499-WC-30	69	303.00	303.30	30	2,330	03/22/2010 11:10:00	
46499-WC-31	71	309.00	309.30	30	2,300	03/22/2010 14:20:00	
46499-WC-32	73	315.00	315.30	30	2,303	03/22/2010 17:22:00	
46499-WC-33	75	321.00	321.30	30	2,314	03/22/2010 20:30:00	
46499-WC-34	77	327.00	327.30	30	2,364	03/22/2010 22:45:00	
46499-WC-35	79	333.00	333.30	30	2,419	03/23/2010 00:50:00	
46499-WC-36	81	339.00	339.30	30	N/A	03/23/2010 06:50:00	No weight or photograph available
46499-WC-37	83	345.00	345.30	30	2,415	03/23/2010 09:45:00	
46499-WC-38	85	351.00	351.30	30	2,387	03/23/2010 12:25:00	
46499-WC-39	87	357.00	357.30	30	2,365	03/23/2010 15:05:00	
46499-WC-40	89	363.00	363.70	30	2,088	03/23/2010 17:46:00	
46499-WC-41	93	374.85	375.15	30	2,319	03/23/2010 23:40:00	
46499-WC-42	94	378.30	378.60	30	2,375	03/24/2010 00:40:00	
46499-WC-45	100	396.00	396.30	30	2,359	03/24/010 09:22:00	Skip two sample #'s
46499-WC-46	101	399.30	399.60	30	N/A	03/24/2010 10:45:00	No weight or photograph available
46499-WC-47	103	405.00	405.30	30	2,389	03/24/2010 23:30:00	
46499-WC-48	105	411.00	411.30	30	2,388	03/25/2010 01:45:00	
46499-WC-49	108	419.00	419.30	30	2,336	03/25/2010 05:55:00	
46499-WC-50	110	425.00	425.30	30	2,322	03/25/2010 09:11:00	

Appendix I

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin
Rocky Brook Formation

Core Operations

Appendix II

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin
Rocky Brook Formation

Daily Field Reports

Daily Field Report –1 - 4

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/05/2010

Finish Time / Date: 00:00:00 3/08/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	-	Core Length Recovered:	-
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	■
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Weatherford Labs personnel Jason Baker, David Taylor, and Jun Cabaccang flew from Denver, CO to St. John's in Newfoundland to prepare equipment and mobilize for the Werner Hatch No. 1 well near Deer Lake, Newfoundland. Weatherford Labs employee Steve Hall flew from Houston, Texas to St. John's in Newfoundland. Personnel on standby until Monday, 03/08/2010.

Daily Field Report –5 - 12

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/08/2010

Finish Time / Date: 00:00:00 3/15/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

GL: KB:

Province/Country: Newfoundland/Canada

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	-	Core Length Recovered:	-
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	■
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: On Monday, 03/08/2010, all personnel mobilized from Weatherford Labs facility in St. John's, Newfoundland for the Werner Hatch No. 1 well near Deer Lake, Newfoundland. Upon arrival, personnel were placed on standby until coring operations began on 03/16/2010.

Daily Field Report –13

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/16/2010

Finish Time / Date: 00:00:00 3/17/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	101.00 - 150.83	Core Length Recovered:	49.75 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	█
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Core run #1 through core run #18 completed.

Daily Field Report –13

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
1	Rocky Brook Formation	101.00	101.04	101.00	101.04	100.00	
2	Rocky Brook Formation	101.04	102.85	101.04	102.85	100.00	
3	Rocky Brook Formation	102.85	105.87	102.85	105.87	100.00	
4	Rocky Brook Formation	105.87	108.85	105.87	108.81	98.66	1
5	Rocky Brook Formation	108.85	111.85	108.81	111.85	101.33	
6	Rocky Brook Formation	111.85	114.85	111.85	114.76	97.00	1
7	Rocky Brook Formation	114.85	117.90	114.85	117.90	100.00	
8	Rocky Brook Formation	117.90	120.88	117.90	120.88	100.00	1
9	Rocky Brook Formation	120.88	123.85	120.88	123.85	100.00	
10	Rocky Brook Formation	123.85	126.85	123.85	126.85	100.00	1
11	Rocky Brook Formation	126.85	129.85	126.85	129.85	100.00	
12	Rocky Brook Formation	129.85	132.90	129.85	132.90	100.00	1
13	Rocky Brook Formation	132.90	135.82	132.90	135.82	100.00	
14	Rocky Brook Formation	135.82	138.84	135.82	138.84	100.00	1
15	Rocky Brook Formation	138.84	141.83	138.84	141.83	100.00	
16	Rocky Brook Formation	141.83	144.82	141.83	144.82	100.00	1
17	Rocky Brook Formation	144.83	147.77	144.83	147.77	100.00	
18	Rocky Brook Formation	147.83	150.83	147.83	150.75	99.33	1

Daily Field Report –13

Deer Lake Oil & Gas, Inc.



Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-1	4-9	4	106.40	106.70	3/16/2010 05:16:20		GC
46499-2	4-14	6	112.70	113.00	3/16/2010 06:44:08		
46499-3	4-23	8	118.70	119.00	3/16/2010 09:20:58		
46499-4	4-24	10	124.70	125.00	3/16/2010 12:34:42		
46499-5	4-42	12	130.70	131.00	3/16/2010 14:21:06		
46499-6	4-47	14	136.70	137.00	3/16/2010 16:54:32		
46499-7	4-60	16	142.70	143.00	3/16/2010 20:19:02		
46499-8	4-66	18	149.70	150.00	3/16/2010 22:31:01		

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-1	4	106.70	107.00	03/16/2010 05:25:00	
46499-WC-2	6	113.00	113.30	03/16/2010 06:55:00	
46499-WC-3	8	119.00	119.30	03/16/2010 09:23:00	
46499-WC-4	10	125.00	125.30	03/16/2010 12:37:00	
46499-WC-5	12	131.00	131.30	03/16/2010 14:24:00	
46499-WC-6	14	137.00	137.30	03/16/2010 16:55:00	
46499-WC-7	16	143.00	143.30	03/16/2010 20:30:00	
46499-WC-8	18	150.00	150.30	03/16/2010 22:40:00	

Daily Field Report –14

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/17/2010

Finish Time / Date: 00:00:00 3/18/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	150.83 – 201.85	Core Length Recovered:	51.02 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Core run #19 through core run #35 completed.

Daily Field Report –14

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
19	Rocky Brook Formation	150.83	153.83	150.83	153.83	100.00	
20	Rocky Brook Formation	153.83	156.83	153.83	156.80	99.00	
21	Rocky Brook Formation	156.83	159.83	156.83	159.83	101.00	1
22	Rocky Brook Formation	159.83	162.83	159.83	162.83	100.00	
23	Rocky Brook Formation	162.83	165.85	162.83	165.85	100.00	1
24	Rocky Brook Formation	165.85	168.81	165.85	168.81	100.00	
25	Rocky Brook Formation	168.81	171.81	168.81	171.81	100.00	1
26	Rocky Brook Formation	171.81	174.82	171.81	174.82	100.00	
27	Rocky Brook Formation	174.82	177.88	174.82	177.88	100.00	1
28	Rocky Brook Formation	177.88	180.91	177.88	180.91	100.00	
29	Rocky Brook Formation	180.91	183.84	180.91	183.84	100.00	1
30	Rocky Brook Formation	183.84	186.87	183.84	186.87	100.00	
31	Rocky Brook Formation	186.87	189.83	186.87	189.83	100.00	1
32	Rocky Brook Formation	189.83	192.85	189.83	192.85	100.00	
33	Rocky Brook Formation	192.85	195.90	192.85	195.90	100.00	1
34	Rocky Brook Formation	195.90	198.85	195.90	198.85	100.00	
35	Rocky Brook Formation	198.85	201.85	198.85	201.85	100.00	1

Daily Field Report –14

Deer Lake Oil & Gas, Inc.



Weatherford
LABORATORIES

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-9	4-67	21	157.40	157.70	3/17/2010 04:24:04		GC
46499-10	4-71	23	163.40	163.70	3/17/2010 06:28:57		
46499-11	4-72	25	169.40	169.70	3/17/2010 10:06:34		
46499-12	4-73	27	175.40	175.70	3/17/2010 12:46:45		
46499-13	4-77	29	181.40	181.70	3/17/2010 13:57:02		
46499-14	4-93	31	187.40	187.70	3/17/2010 18:27:23		
46499-15	4-99	33	193.70	194.00	3/17/2010 21:28:06		
46499-16	4-102	35	199.70	200.00	3/17/2010 23:40:37		

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-9	21	157.70	158.00	03/17/2010 04:30:00	No weight or photograph available
46499-WC-10	23	163.70	164.00	03/17/2010 06:45:00	
46499-WC-11	25	169.70	170.00	03/17/2010 10:04:00	
46499-WC-12	27	175.70	176.00	03/17/2010 12:39:00	
46499-WC-13	29	181.70	182.00	03/17/2010 15:51:00	
46499-WC-14	31	187.70	188.00	03/17/2010 18:22:00	
46499-WC-15	33	194.00	194.30	03/17/2010 21:35:00	
46499-WC-16	35	200.00	200.30	03/17/2010 23:47:00	

Daily Field Report –15

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/18/2010

Finish Time / Date: 00:00:00 3/19/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	201.85 – 249.85 meters	Core Length Recovered:	48.0 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Core run #36 through core run #51 completed.

Daily Field Report –15

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
36	Rocky Brook Formation	201.85	204.85	201.85	204.85	100.00	
37	Rocky Brook Formation	204.85	207.85	204.85	207.85	100.00	1
38	Rocky Brook Formation	207.85	210.85	207.85	210.85	100.00	
39	Rocky Brook Formation	210.85	213.85	210.85	213.85	100.00	1
40	Rocky Brook Formation	213.85	216.81	213.85	216.81	100.00	
41	Rocky Brook Formation	216.81	219.84	216.81	219.84	100.00	1
42	Rocky Brook Formation	219.84	222.84	219.84	222.84	100.00	
43	Rocky Brook Formation	222.84	225.84	222.84	225.84	100.00	1
44	Rocky Brook Formation	225.84	228.83	225.84	228.83	100.00	
45	Rocky Brook Formation	228.83	231.85	228.83	231.85	100.00	1
46	Rocky Brook Formation	231.85	234.83	231.85	234.83	100.00	
47	Rocky Brook Formation	234.83	237.81	234.83	237.81	100.00	1
48	Rocky Brook Formation	237.81	240.81	237.81	240.81	100.00	
49	Rocky Brook Formation	240.81	243.79	240.81	243.79	100.00	1
50	Rocky Brook Formation	243.79	246.76	243.79	246.76	100.00	
51	Rocky Brook Formation	246.76	249.85	246.76	249.85	100.00	

Daily Field Report –15

Deer Lake Oil & Gas, Inc.



Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-17	4-101	37	205.70	206.00	3/18/2010 02:15:45	17	GC
46499-18	4-103	39	211.03	211.33	3/18/2010 05:21:03	17	
46499-19	4-104	41	217.70	218.00	3/18/2010 09:21:57	17	
46499-20	4-111	43	223.70	224.00	3/18/2010 12:19:40	17	
46499-21	4-116	45	229.70	230.00	3/18/2010 15:33:30	17	
46499-22	4-125	47	235.70	236.00	3/18/2010 17:29:32	17	
46499-23	4-129	49	243.00	243.30	3/18/2010 20:22:32	17	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-17	37	206.00	206.30	03/18/2010 02:19:00	
46499-WC-18	39	211.33	211.63	03/18/2010 05:30:00	
46499-WC-19	41	218.00	218.30	03/18/2010 09:12:00	
46499-WC-20	43	224.00	224.30	03/18/2010 12:21:00	
46499-WC-21	45	230.00	230.30	03/18/2010 15:40:00	
46499-WC-22	47	236.00	236.30	03/18/2010 17:22:00	
46499-WC-23	49	243.30	243.60	03/18/2010 20:30:00	

Daily Field Report –16

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 03/19/2010

Finish Time / Date: 00:00:00 03/20/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	249.85 – 270.85	Core Length Recovered:	20.96 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2 / HQ 2.5" ID

Today's Activity: Core run #52 through core run #58 completed.

Encountered potential gas kick at approximately 10:00:00. Coring operations suspended until gas was diverted. Diverting was still in progress at the end of this report.

Daily Field Report –16

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples	Lithology
#		meters		meters		%		
52	Rocky Brook Formation	249.85	252.85	249.85	252.80	100.00		
53	Rocky Brook Formation	252.85	255.85	252.85	255.85	100.00		
54	Rocky Brook Formation	255.85	258.85	255.85	258.85	100.00		
55	Rocky Brook Formation	258.85	261.85	258.85	261.85	100.00		
56	Rocky Brook Formation	261.85	264.85	261.85	264.85	100.00		
57	Rocky Brook Formation	264.85	267.85	264.85	267.85	100.00	1	
58	Rocky Brook Formation	267.85	270.85	267.85	270.81	98.67		

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-24	4-131	57	266.30	266.60	3/19/2010 06:48:42	17	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-24	57	266.60	266.90	03/19/2010 06:50:00	

Daily Field Report –17

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/20/2010

Finish Time / Date: 00:00:00 3/21/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

GL: **KB:**

Province/Country: Newfoundland/Canada

Project #: 46499

Note: All depths from kelly bushing

Cored Interval:	270.85 – 273.85 meters	Core Length Recovered:	2.96 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Core run #59 retrieved at 05:04:00. Coring operations remained suspended until mud weight could be raised from 1,100 kg/m³ to 1,300 kg/m³ in order to control possible Nitrogen pocket downhole.

Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
59	Rocky Brook Formation	270.85	273.85	270.85	273.81	98.67	1

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-25	4-134	59	273.33	273.63	3/20/2010 05:36:50	17	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-25	59	273.00	273.30	03/20/2010 04:50:00	

Daily Field Report –18

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/21/2010

Finish Time / Date: 00:00:00 3/22/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

GL: KB:

Province/Country: Newfoundland/Canada

Project #: 46499

Note: All depths from kelly bushing

Cored Interval:	273.85 – 276.85	Core Length Recovered:	3.07 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Coring operations suspended until mud weight could be raised from 1,100 kg/m³ to 1,300 kg/m³ in order to control possible nitrogen pocket.

Mud weight was raised and coring continued at 22:00:00 through the end of this report period.

Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples	Lithology
#		meters		meters		%		
60	Rocky Brook Formation	273.85	276.85	273.81	276.88	102.33	1	

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-26	4-143	60	274.70	275.00	3/22/2010 00:18:09	17	GC

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-26	60	275.00	275.30	03/22/2010 00:25:00	

Daily Field Report –19

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/22/2010

Finish Time / Date: 00:00:00 3/23/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

GL: KB:

Province/Country: Newfoundland/Canada

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	276.85 – 330.85 meters	Core Length Recovered:	53.97 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Cored from core run #61 through core run #78.

Daily Field Report –19

Deer Lake Oil & Gas, Inc.



Weatherford
LABORATORIES

Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples	Lithology
#		meters		meters		%		
61	Rocky Brook Formation	276.85	279.85	276.88	279.77	96.33		
62	Rocky Brook Formation	279.85	282.85	279.77	282.84	102.33		
63	Rocky Brook Formation	282.85	285.85	282.84	285.88	101.33		
64	Rocky Brook Formation	285.85	288.85	285.88	288.82	98.00		
65	Rocky Brook Formation	288.85	291.85	288.82	291.80	99.33		
66	Rocky Brook Formation	291.85	294.85	291.80	294.81	100.33		
67	Rocky Brook Formation	294.85	297.85	294.81	297.81	100.00		
68	Rocky Brook Formation	297.85	300.85	297.81	300.82	100.33		
69	Rocky Brook Formation	300.85	303.85	300.82	303.86	101.33		
70	Rocky Brook Formation	303.85	306.85	303.86	306.86	100.00		
71	Rocky Brook Formation	306.85	309.85	306.86	309.82	98.67		
72	Rocky Brook Formation	309.85	312.85	309.82	312.81	99.67		
73	Rocky Brook Formation	312.85	315.85	312.81	315.88	102.33		
74	Rocky Brook Formation	315.85	318.85	315.88	318.75	95.67		
75	Rocky Brook Formation	318.85	321.85	318.75	321.83	102.67		
76	Rocky Brook Formation	321.85	324.85	321.83	324.83	100.00		
77	Rocky Brook Formation	324.85	327.85	324.83	327.82	99.67		
78	Rocky Brook Formation	327.85	330.85	327.82	330.85	101.00		



Weatherford
LABORATORIES

Daily Field Report –19

Deer Lake Oil & Gas, Inc.



Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-27	63	285.00	285.30	03/22/2010 03:30:00	
46499-WC-28	65	291.00	291.30	03/22/2010 05:30:00	
46499-WC-29	67	297.00	297.30	03/22/2010 08:44:00	
46499-WC-30	69	303.00	303.30	03/22/2010 11:10:00	
46499-WC-31	71	309.00	309.30	03/22/2010 14:20:00	
46499-WC-32	73	315.00	315.30	03/22/2010 17:22:00	
46499-WC-33	75	321.00	321.30	03/22/2010 20:30:00	
46499-WC-34	77	327.00	327.30	03/22/2010 22:45:00	

Daily Field Report –20

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 3/23/2010

Finish Time / Date: 00:00:00 3/24/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

GL: KB:

Province/Country: Newfoundland/Canada

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	330.85 – 375.90	Core Length Recovered:	45.05 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2, HQ (2 ½" ID)

Today's Activity: Cored from core run #79 to core run #93.

Daily Field Report –20

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
79	Rocky Brook Formation	330.85	333.85	330.85	333.74	96.33	
80	Rocky Brook Formation	333.85	336.85	333.85	336.85	100.00	
81	Rocky Brook Formation	336.85	339.85	336.85	339.70	95.00	
82	Rocky Brook Formation	339.85	342.85	339.70	342.82	104.00	
83	Rocky Brook Formation	342.85	345.85	342.82	345.80	99.33	
84	Rocky Brook Formation	345.85	348.85	345.80	348.73	97.67	
85	Rocky Brook Formation	348.85	351.85	348.73	351.84	103.67	
86	Rocky Brook Formation	351.85	354.85	351.84	354.78	98.00	
87	Rocky Brook Formation	354.85	357.85	354.78	357.76	99.33	
88	Rocky Brook Formation	357.85	362.85	357.76	360.72	98.67	
89	Rocky Brook Formation	362.85	363.85	360.72	363.80	102.67	
90	Rocky Brook Formation	363.85	366.85	363.80	366.76	98.67	
91	Rocky Brook Formation	366.85	369.85	366.85	369.81	98.67	
92	Rocky Brook Formation	369.85	372.89	369.81	372.89	102.67	
93	Rocky Brook Formation	372.89	375.90	372.89	375.90	100.33	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-35	79	333.00	333.30	03/23/2010 00:50:00	
46499-WC-36	81	339.00	339.30	03/23/2010 06:50:00	
46499-WC-37	83	345.00	345.30	03/23/2010 09:45:00	
46499-WC-38	85	351.00	351.30	03/23/2010 12:25:00	
46499-WC-39	87	357.00	357.30	03/23/2010 15:05:00	
46499-WC-40	89	363.00	363.70	03/23/2010 17:46:00	
46499-WC-41	93	374.85	375.15	03/23/2010 23:40:00	



Daily Field Report –21

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 03/24/2010

Finish Time / Date: 00:00:00 03/25/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly bushing

Cored Interval:	375.90 – 405.85	Core Length Recovered:	29.88
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2 / HQ 2.5" ID

Today's Activity: Cored to 400 meters, waited on permit to core to 530 meters. Once permit was obtained, coring commenced at 19:37. At approximately 20:15, coring operations paused due to electrical malfunction on rig. Electrical system repaired and coring continued at 21:22:00. Day ended at core run #103.

Daily Field Report –21

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
94	Rocky Brook Formation	375.90	378.91	375.90	378.91	100.33	1
95	Rocky Brook Formation	378.91	381.85	378.91	381.83	97.33	
96	Rocky Brook Formation	381.85	384.85	381.83	384.81	99.33	
97	Rocky Brook Formation	384.85	387.85	384.81	387.79	99.33	
98	Rocky Brook Formation	387.85	390.85	387.79	390.72	97.67	
99	Rocky Brook Formation	390.85	393.85	390.72	393.83	103.67	
100	Rocky Brook Formation	393.85	396.85	393.83	396.74	97.00	
101	Rocky Brook Formation	396.85	399.85	396.74	399.79	101.67	1
102	Rocky Brook Formation	399.85	402.85	399.79	402.72	97.67	
103	Rocky Brook Formation	402.85	405.85	402.72	405.78	102.00	

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-27	4-145	94	378.00	378.30	3/24/2010 00:26:59	17	
46499-28	4-147	101	399.00	399.30	3/24/2010 11:05:19	17	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-42	94	378.30	378.60	03/24/2010 00:40:00	
46499-WC-45	100	396.00	396.30	03/24/2010 09:22:00	Skip two sample numbers
46499-WC-46	101	399.30	399.60	03/24/2010 10:45:00	
46499-WC-47	103	405.00	405.30	03/24/2010 23:30:00	

Daily Field Report –22

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 03/25/2010

Finish Time / Date: 00:00:00 03/26/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly
bushing

Cored Interval:	405.85 – 441.85 meters	Core Length Recovered:	36.06 meters
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	340.84
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2 / HQ 2.5" ID

Today's Activity: Core run #104 through core run #115 completed. Coring operations concluded following this run.

All Weatherford Labs personnel lodged near Pasadena, Newfoundland before mobilizing from location on 03/26/2010.

Daily Field Report –22

Deer Lake Oil & Gas, Inc.



Core Run Summary

Core Run	Reservoir Name	Cored Interval		Core Interval Recovered		Core Recovery	Number of Desorption Samples
#		meters		meters		%	
104	Rocky Brook Formation	405.85	408.85	405.78	408.80	100.67	
105	Rocky Brook Formation	408.85	411.85	408.80	411.74	98.00	
106	Rocky Brook Formation	411.85	414.85	411.74	414.76	100.67	
107	Rocky Brook Formation	414.85	417.85	414.76	417.81	101.67	
108	Rocky Brook Formation	417.85	420.85	417.81	420.77	98.67	1
109	Rocky Brook Formation	420.85	423.85	420.77	423.76	99.67	
110	Rocky Brook Formation	423.85	426.85	423.76	426.74	99.33	
111	Rocky Brook Formation	426.85	429.85	426.74	429.74	100.00	
112	Rocky Brook Formation	429.85	432.85	429.74	432.85	103.67	
113	Rocky Brook Formation	432.85	435.85	432.85	435.84	99.67	
114	Rocky Brook Formation	435.85	438.85	435.84	438.84	100.00	
115	Rocky Brook Formation	438.85	441.85	438.84	441.84	100.00	

Gas Content Sample Summary

Sample ID	Can Number	Core Run	Interval		Time Sealed	Bath Temp.	Comments
			meters		hh:mm:ss	°C	
46499-29	4-156	108	418.70	419.00	3/25/2010 05:47:00	17	

Preserved Sample Summary

Sample ID	Core Run	Interval		Time Preserved	Comments
		meters		hh:mm:ss	
46499-WC-48	105	411.00	411.30	03/24/2010 00:40:00	03/25/2010 01:45:00
46499-WC-49	108	419.00	419.30	03/24/2010 09:22:00	03/25/2010 05:55:00
46499-WC-50	110	425.00	425.30	03/24/2010 10:45:00	03/25/2010 09:11:00

Daily Field Report –23

Deer Lake Oil & Gas, Inc.



Submitted To: Cabot Martin

Submitted By: Jason Baker

Start Time / Date: 00:00:00 03/26/2010

Finish Time / Date: 00:00:00 03/27/2010

Well Name: Werner Hatch No. 1

Surface Location: 49°13'5.78"N / 57°20'40.53"W

Province/Country: Newfoundland/Canada

GL: KB:

Project #: 46499

Note: All depths from kelly bushing

Cored Interval:	-	Core Length Recovered:	-
Formation Name(s):	Rocky Brook Formation	Total Shale Thickness:	
Head Space Filler:	Inert sand	Drilling Fluid:	Water-based polymer
Core Barrel Type/Size:	3.0 meter wireline	Core Bit Type/Size:	Fordia Shark 2 / HQ 2.5" ID

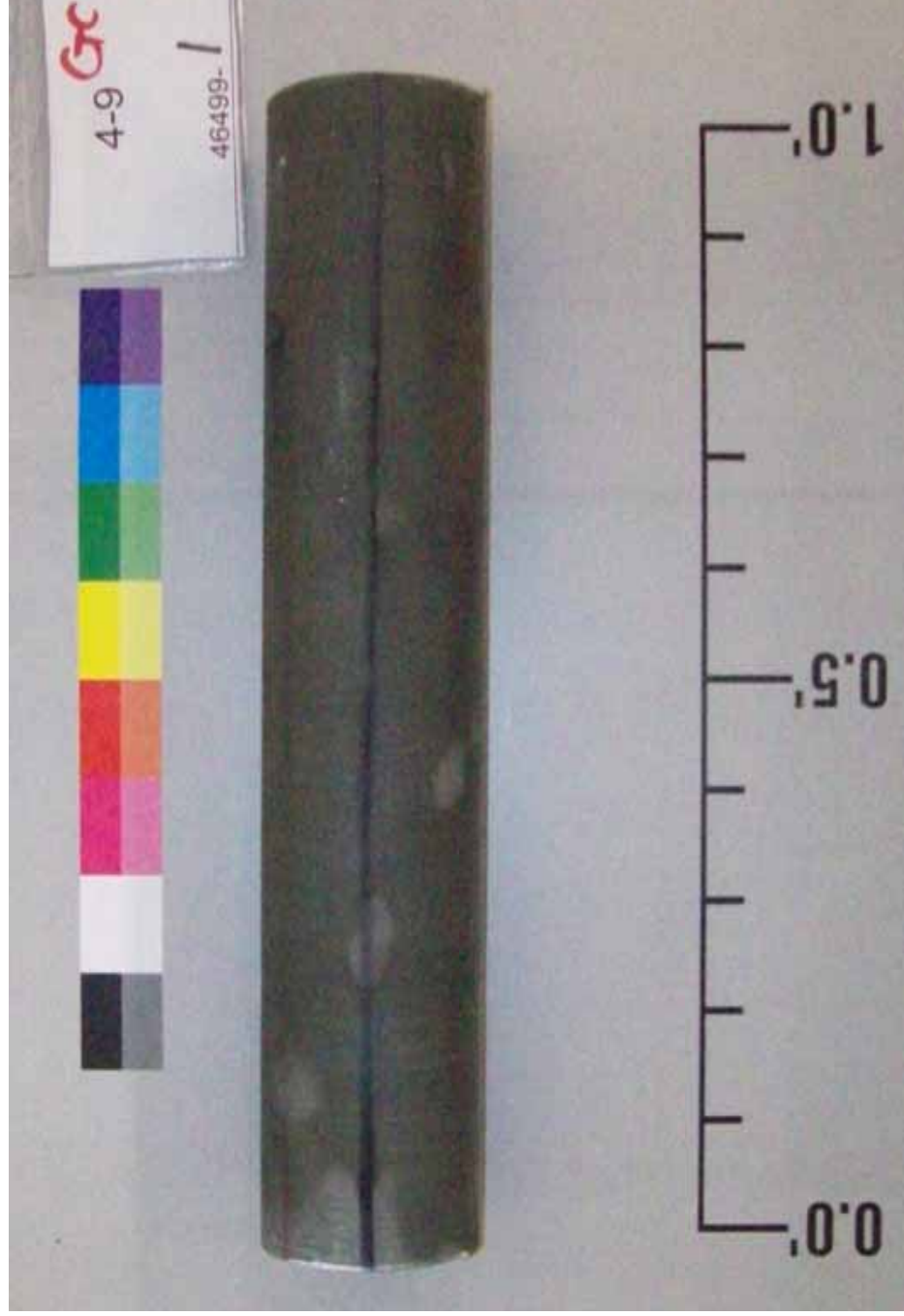
Today's Activity: Personnel mobilized from location and drove back to St. John's, Newfoundland.

Appendix III

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin
Rocky Brook Formation

Core Photography

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 4



Rocky Brook Formation	WFT Labs 46499-1	Depth (meters): 106.40 - 106.70
-----------------------	------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 4

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

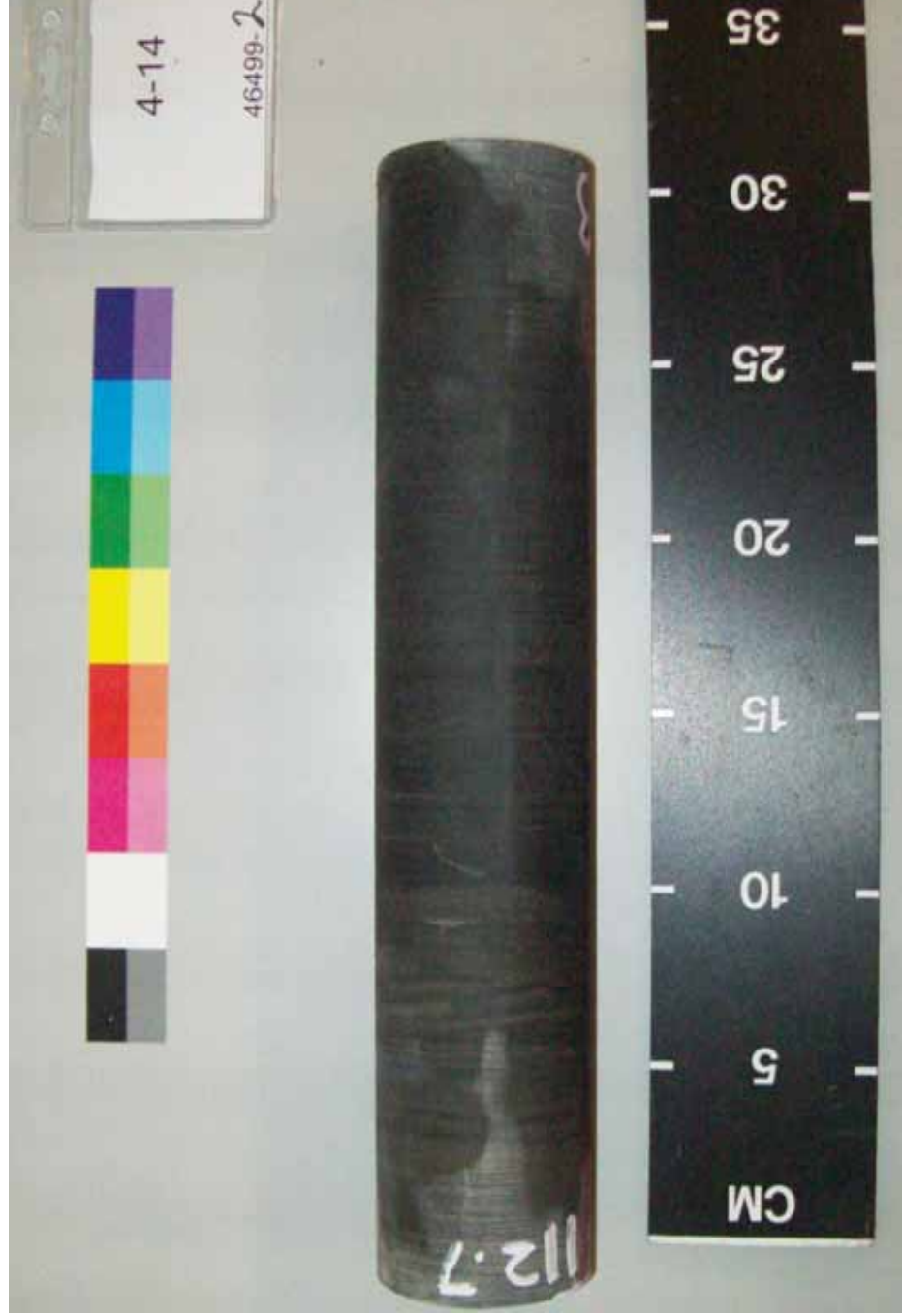


Rocky Brook Formation

WFT Labs 46499-1

Depth (meters): 106.70 - 107.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 6



Rocky Brook Formation	WFT Labs 46499-2	Depth (meters): 112.70 - 113.00
-----------------------	------------------	---------------------------------

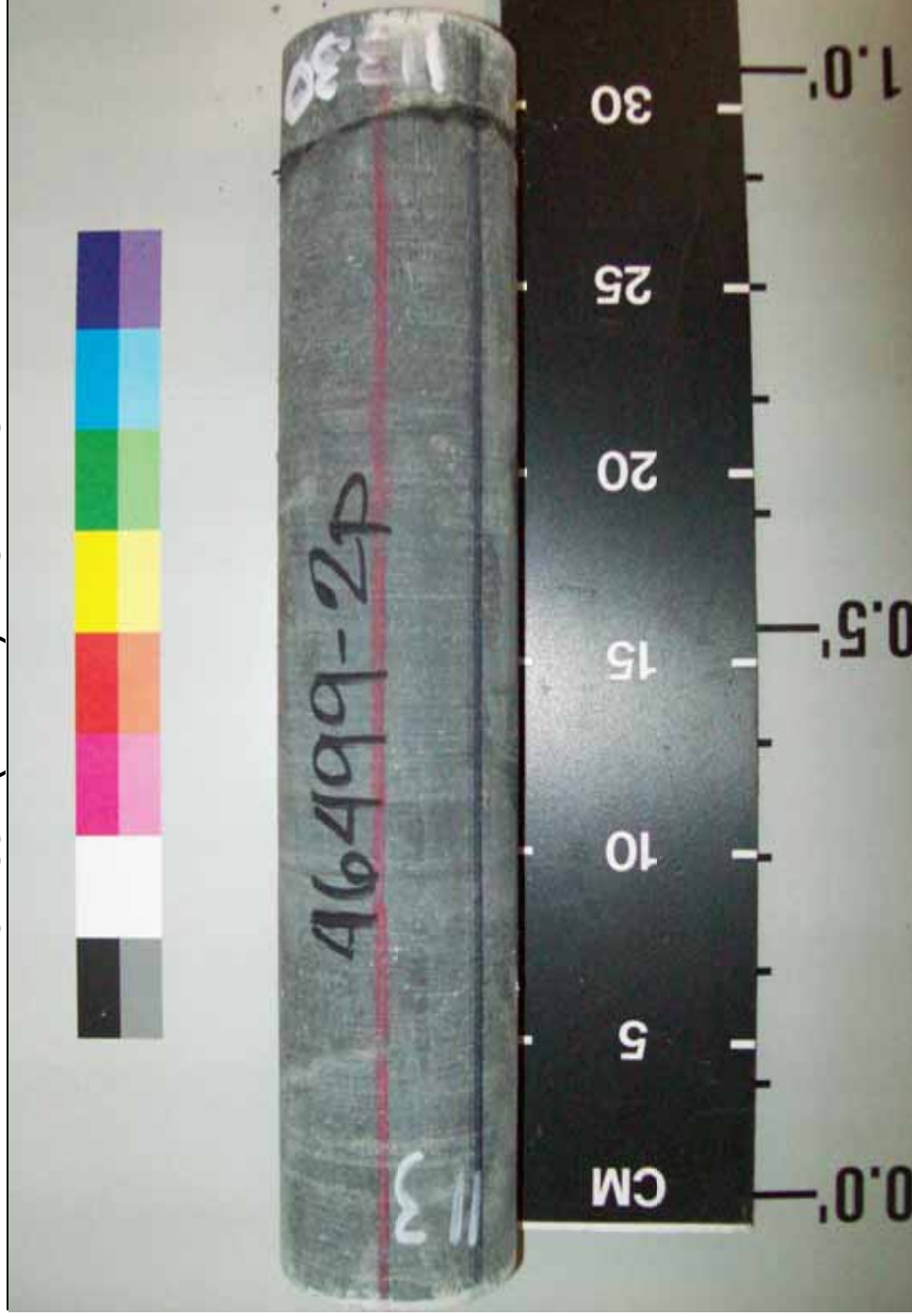
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 6

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

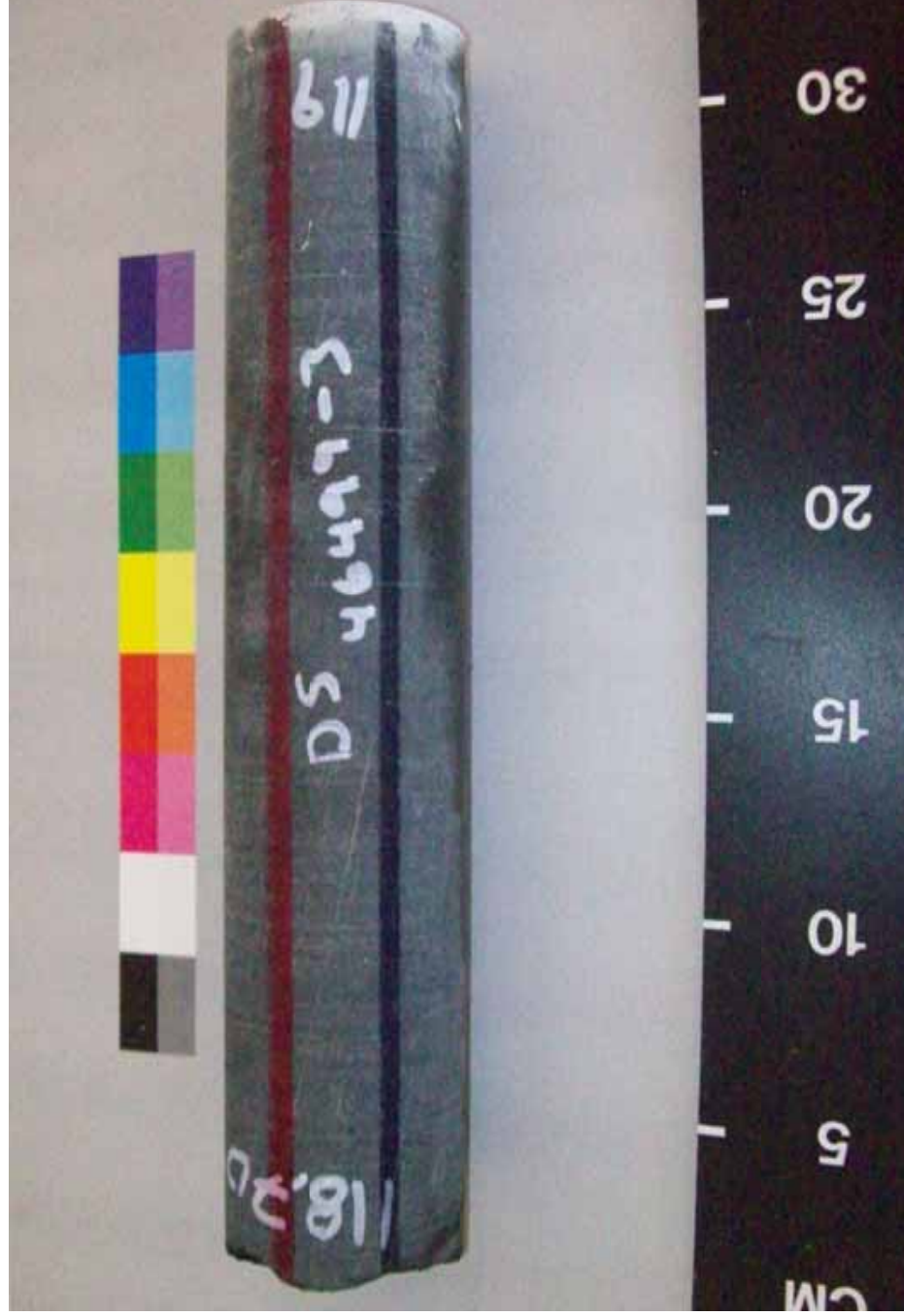


Rocky Brook Formation

WFT Labs 46499-2

Depth (meters): 113.00 - 113.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 8



Rocky Brook Formation	WFT Labs 46499-3	Depth (meters): 118.70 - 119.00
-----------------------	------------------	---------------------------------

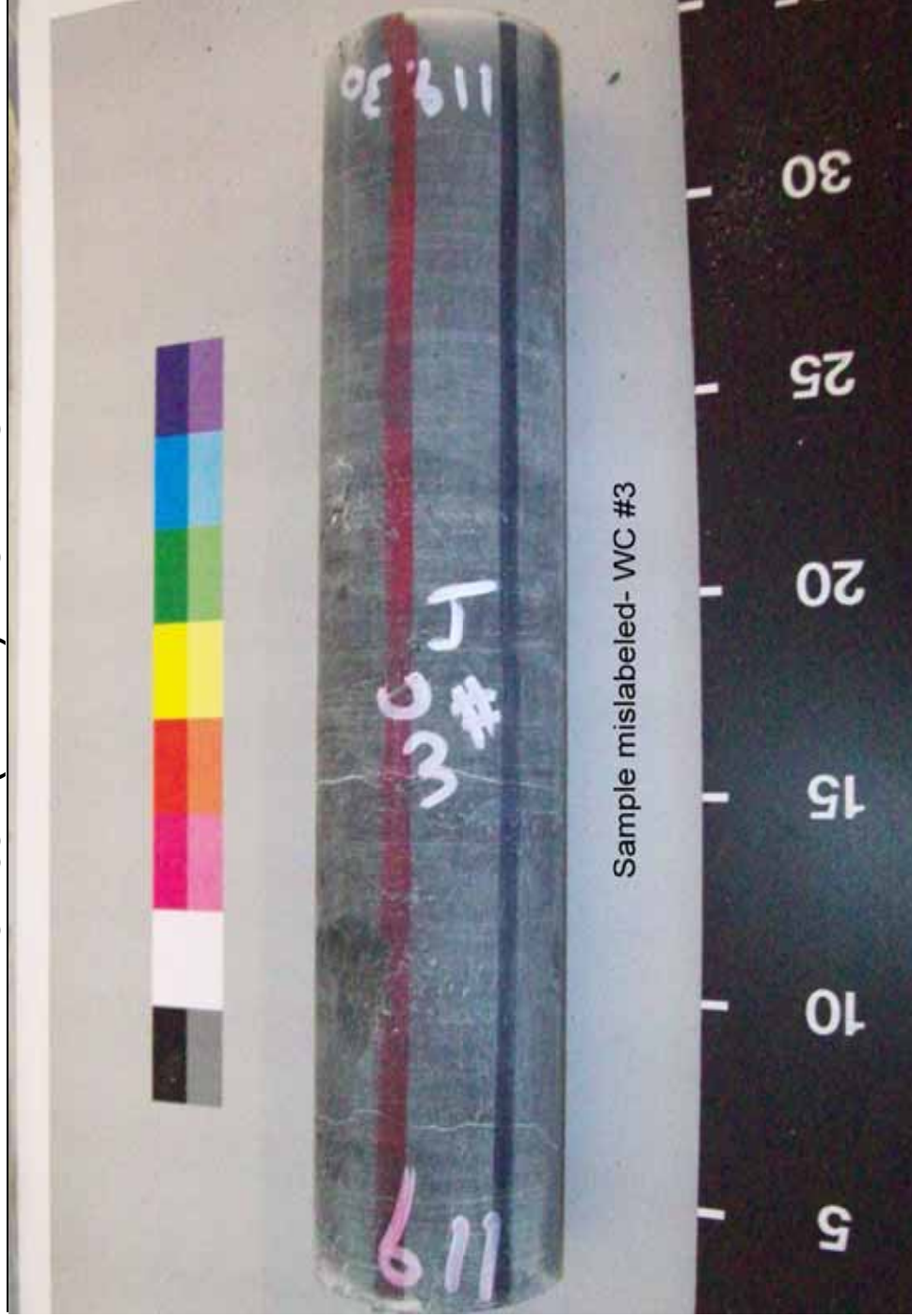
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 8

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-3

Depth (meters): 119.00 - 119.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 10



Rocky Brook Formation	WFT Labs 46499-4	Depth (meters): 124.70 - 125.00
-----------------------	------------------	---------------------------------

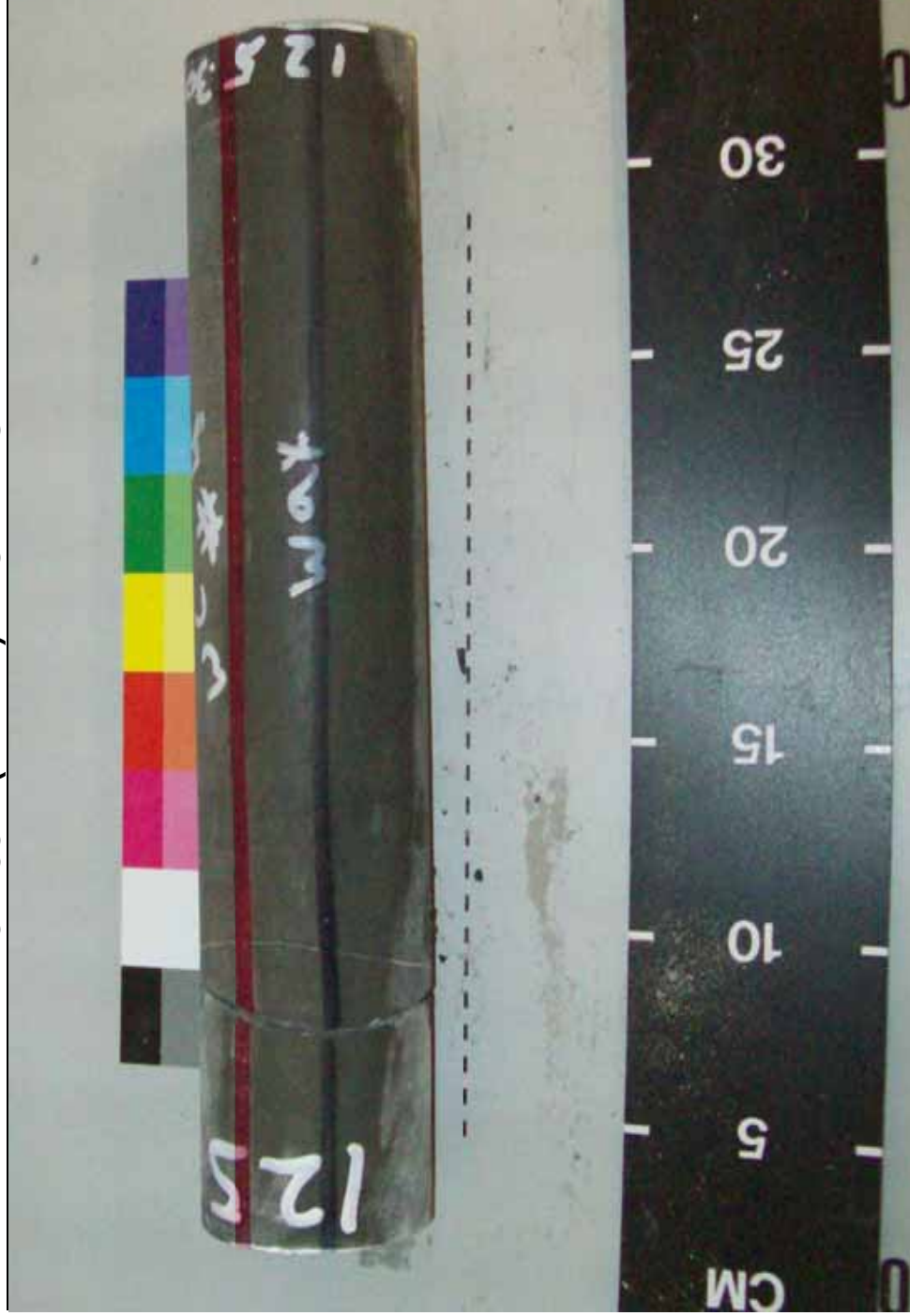
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 10

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

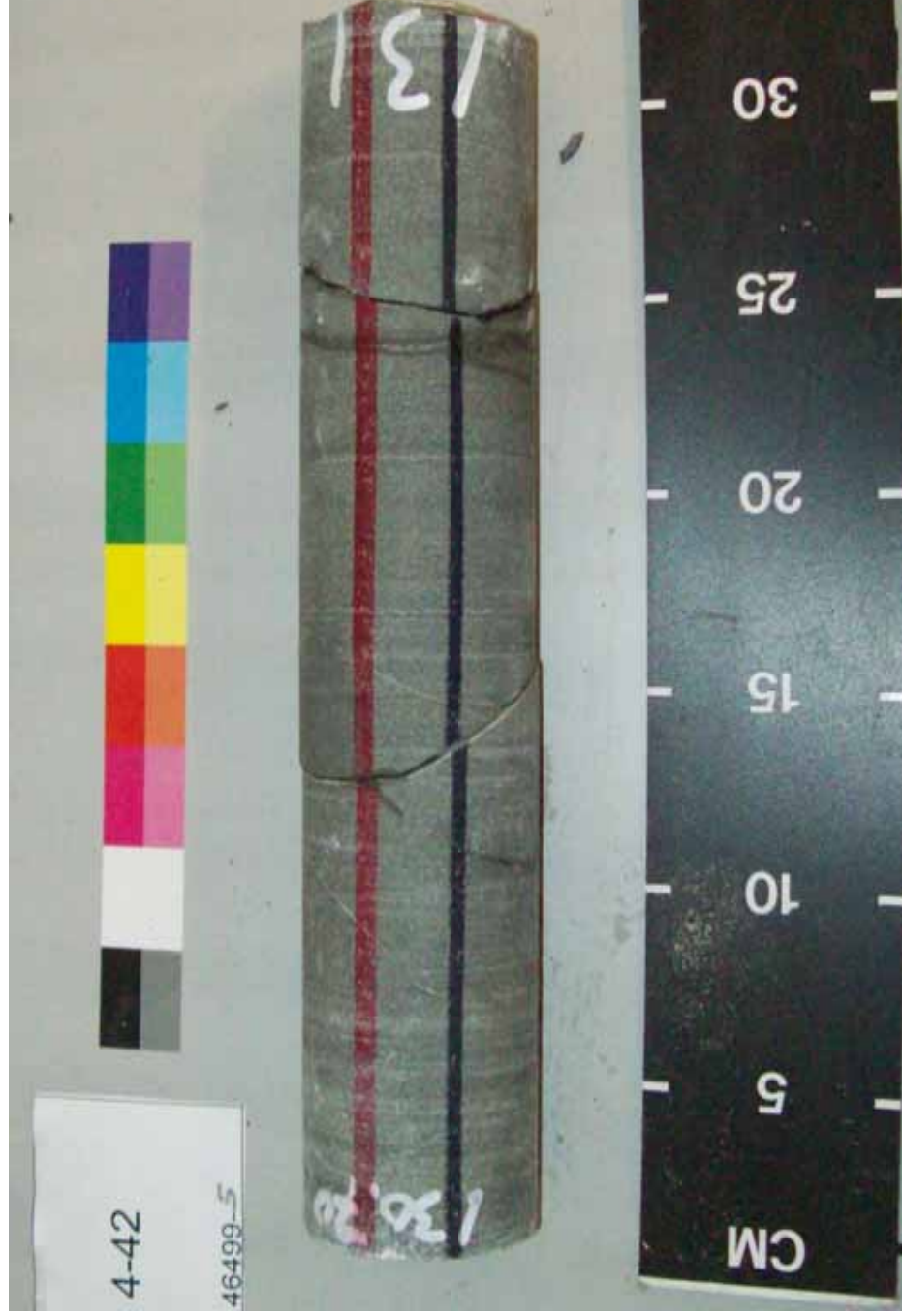


Rocky Brook Formation

WFT Labs 46499-4

Depth (meters): 125.00 - 125.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 12



Rocky Brook Formation	WFT Labs 46499-5	Depth (meters): 130.70 - 131.00
-----------------------	------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 12

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-5

Depth (meters): 131.00 - 131.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 14



Rocky Brook Formation	WFT Labs 46499-6	Depth (meters): 136.70 - 137.00
-----------------------	------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

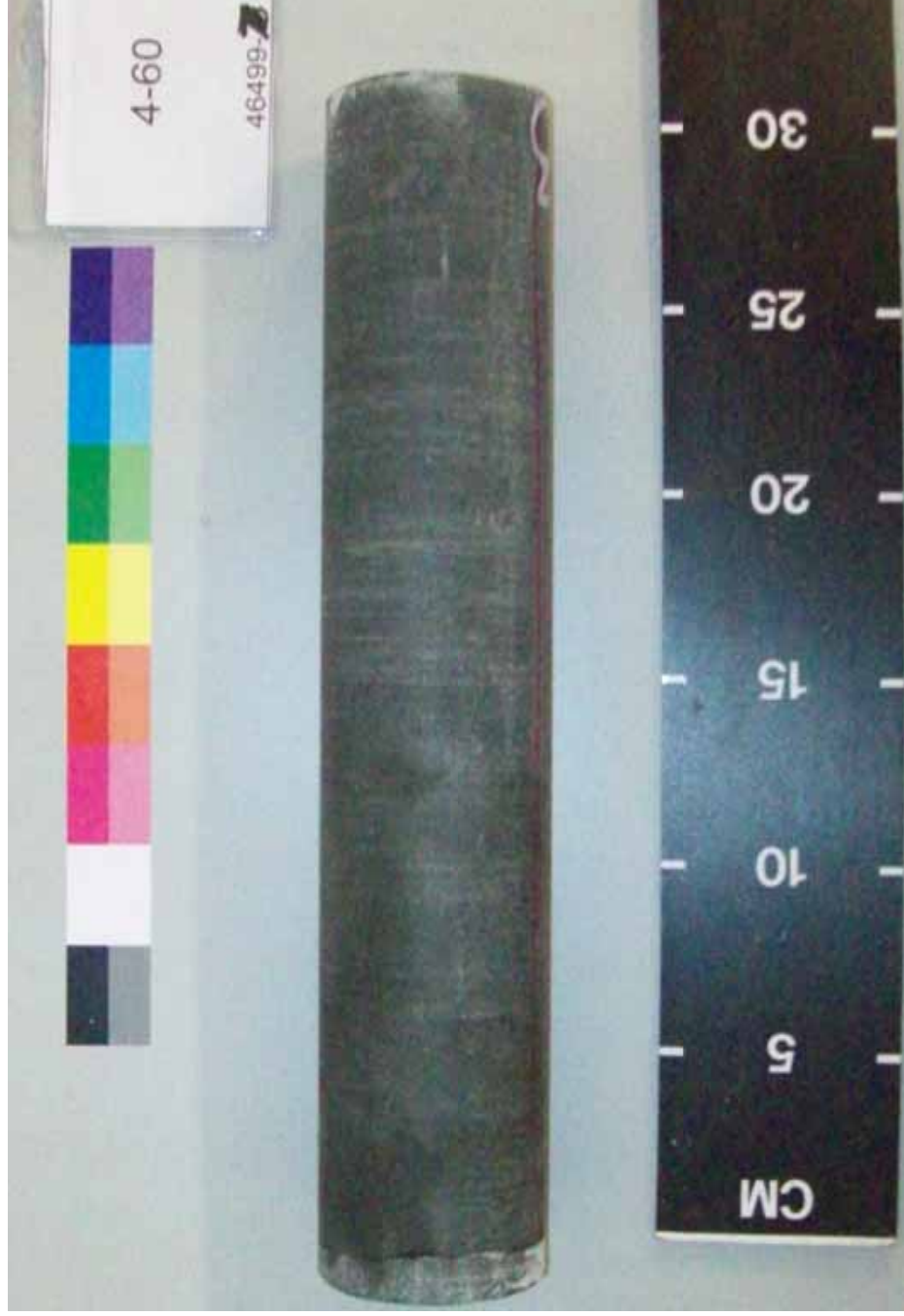
Core Run # 14

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-6	Depth (meters): 137.00 - 137.30
-----------------------	------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 16



Rocky Brook Formation	WFT Labs 46499-7	Depth (meters): 142.70 - 143.00
-----------------------	------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 16

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

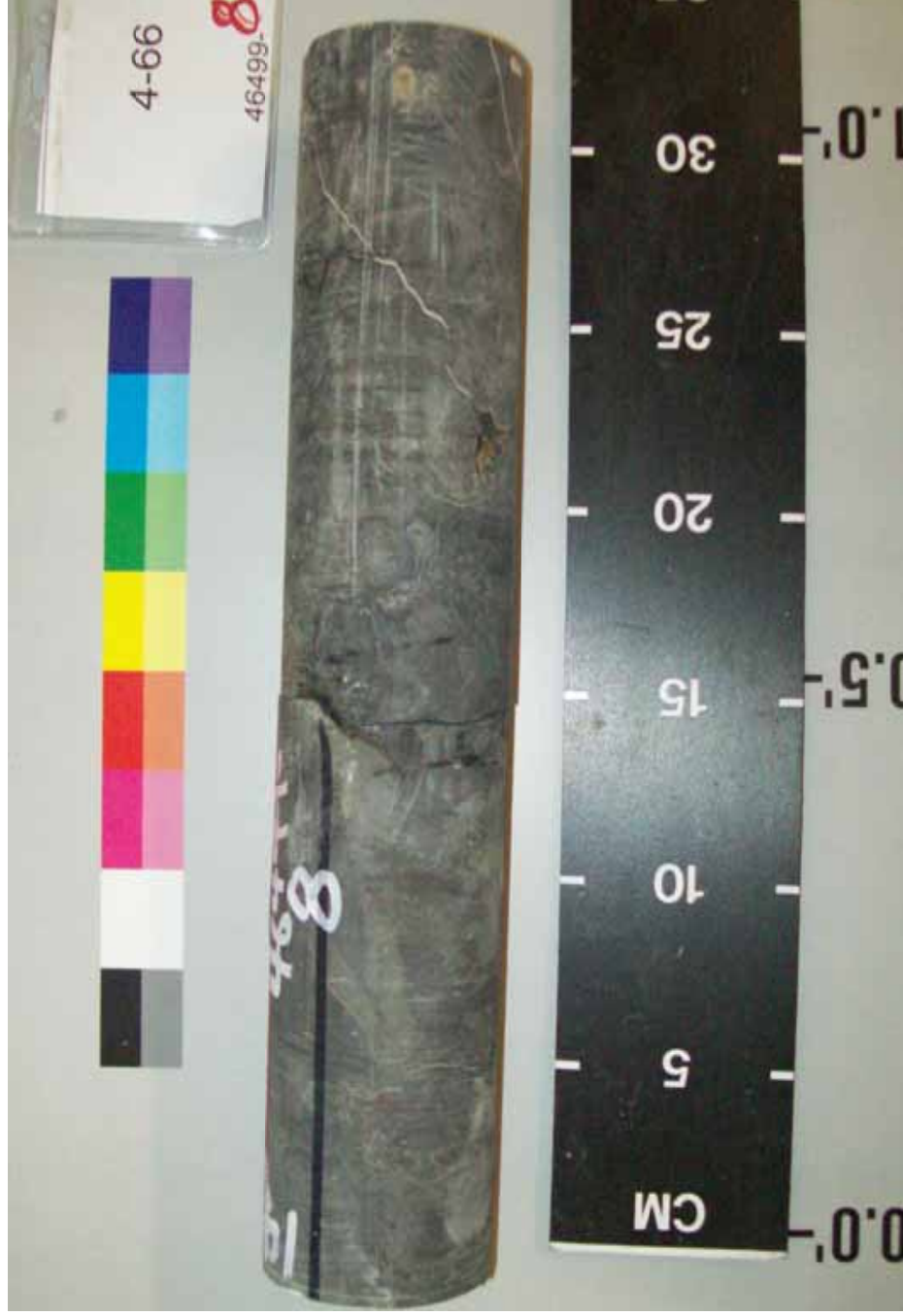


Rocky Brook Formation

WFT Labs 46499-7

Depth (meters): 143.00 - 143.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 18



Rocky Brook Formation	WFT Labs 46499-8	Depth (meters): 149.70 - 150.00
-----------------------	------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 18

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-8

Depth (meters): 150.00 - 150.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 21



Rocky Brook Formation	WFT Labs 46499-9	Depth (meters): 157.40 - 157.70
-----------------------	------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 21

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

NO PHOTOGRAPH AVAILABLE FOR THIS SAMPLE

Rocky Brook Formation	WFT Labs 46499-9	Depth (meters): 157.70 - 158.00
-----------------------	------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 23



Rocky Brook Formation	WFT Labs 46499-10	Depth (meters): 163.40 - 163.70
-----------------------	-------------------	---------------------------------

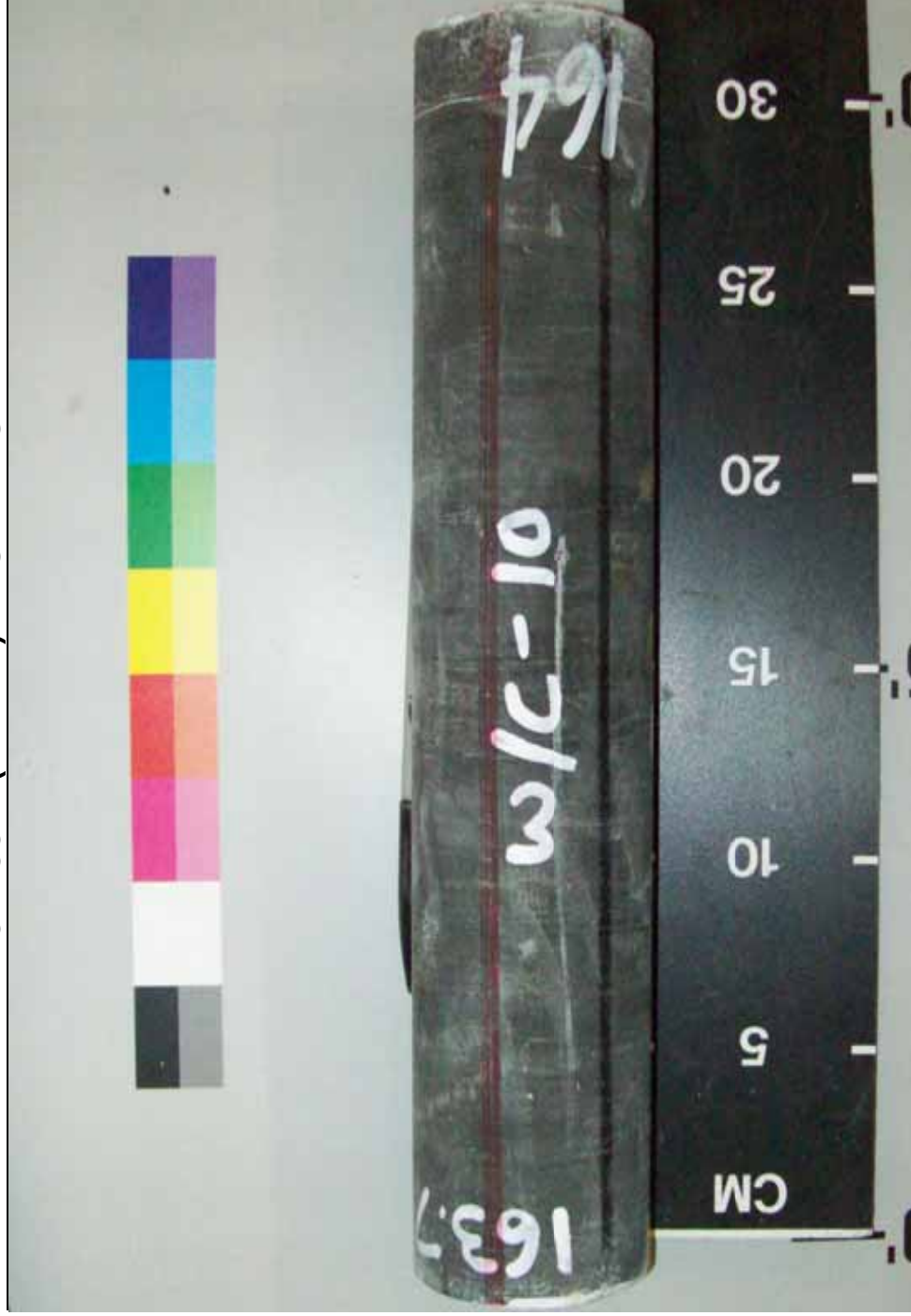
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 23

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-10

Depth (meters): 163.70 - 164.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 25



Rocky Brook Formation	WFT Labs 46499-11	Depth (meters): 169.40 - 169.70
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 25

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

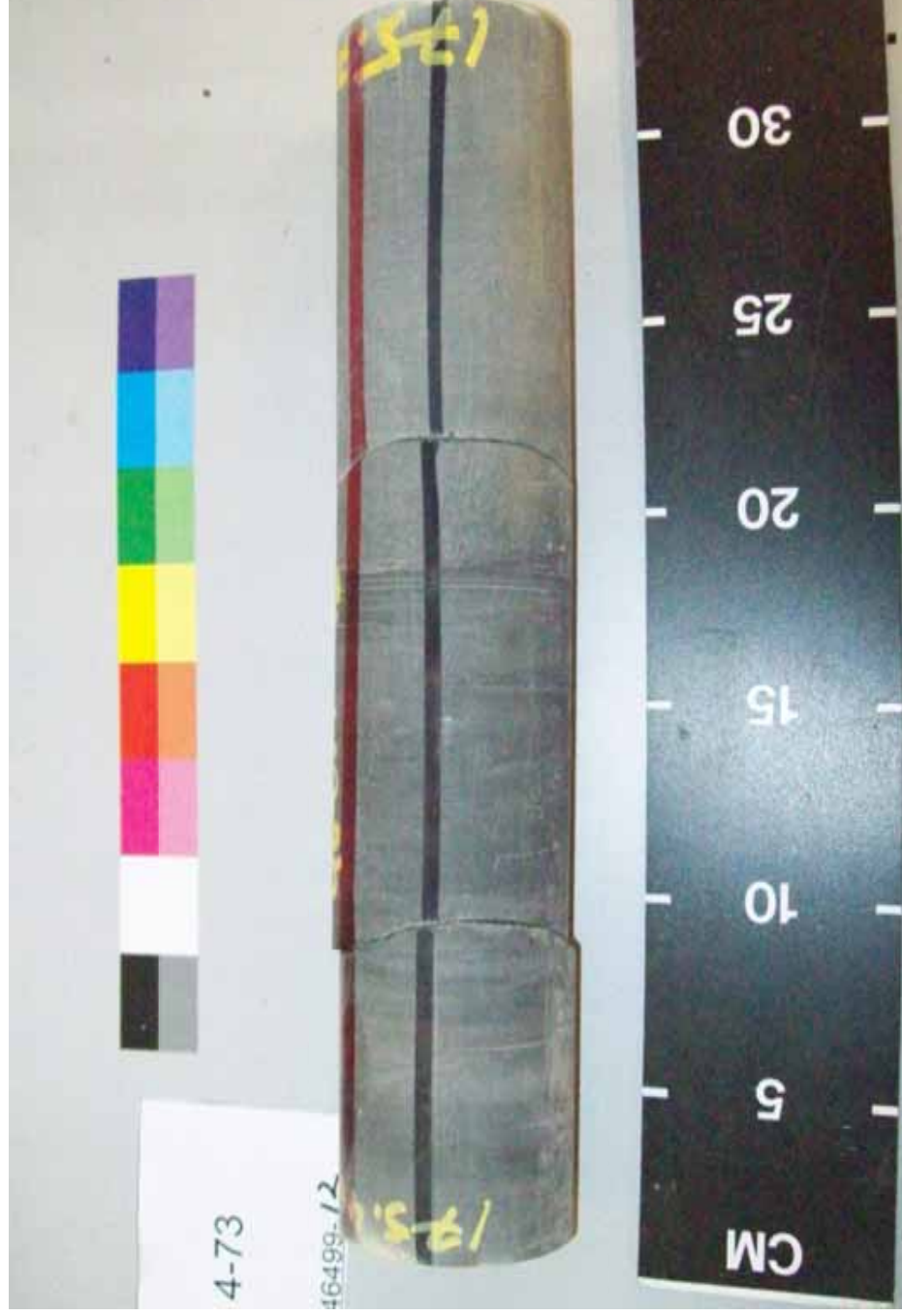


Rocky Brook Formation

WFT Labs 46499-11

Depth (meters): 169.70 - 170.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 27



Rocky Brook Formation	WFT Labs 46499-12	Depth (meters): 175.40 - 175.70
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 27

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-12

Depth (meters): 175.70 - 176.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 29



Rocky Brook Formation	WFT Labs 46499-13	Depth (meters): 181.40 - 181.70
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 29

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-13

Depth (meters): 181.70 - 182.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 31



Rocky Brook Formation	WFT Labs 46499-14	Depth (meters): 187.40 - 187.70
-----------------------	-------------------	---------------------------------

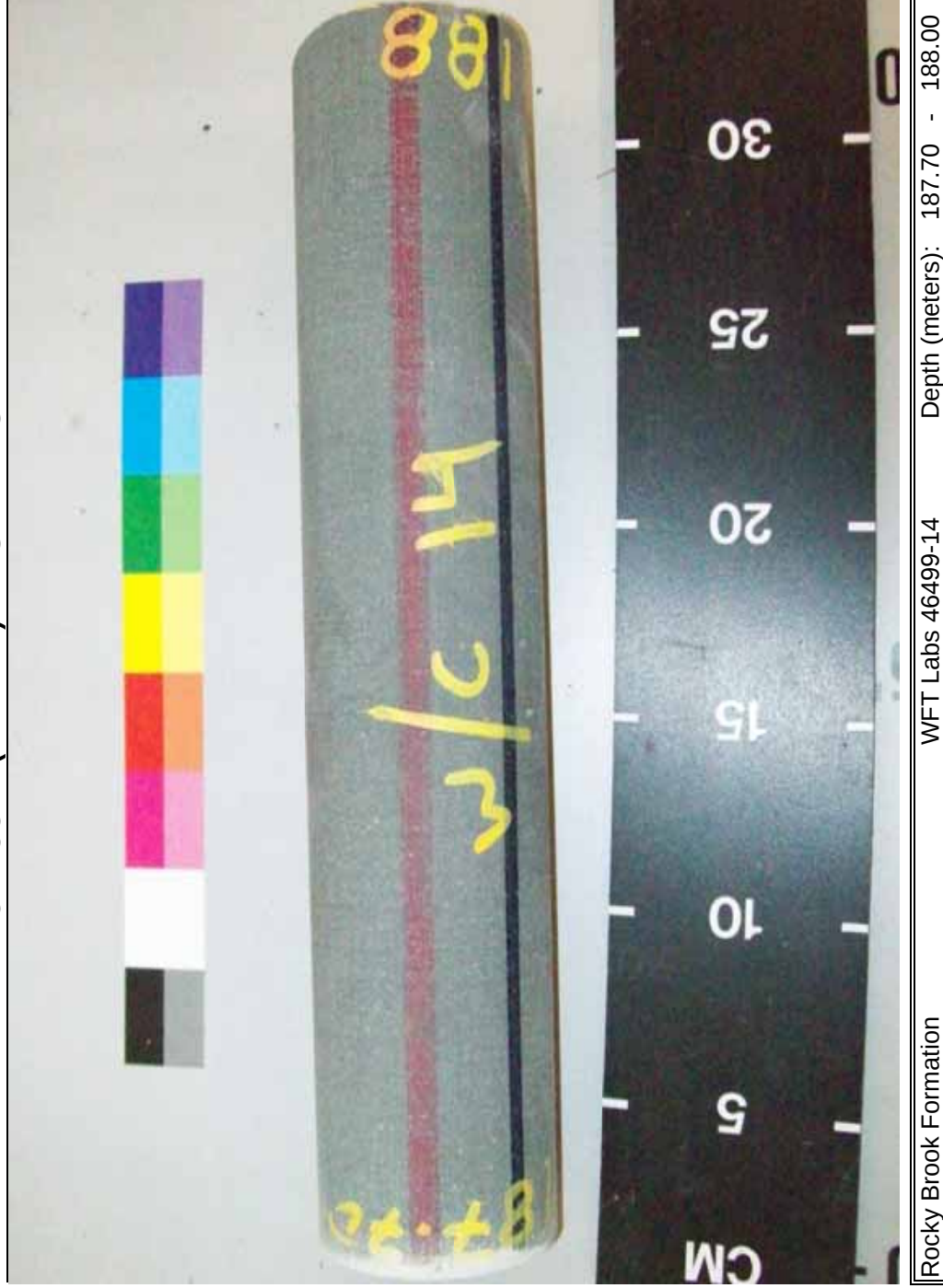
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 31

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

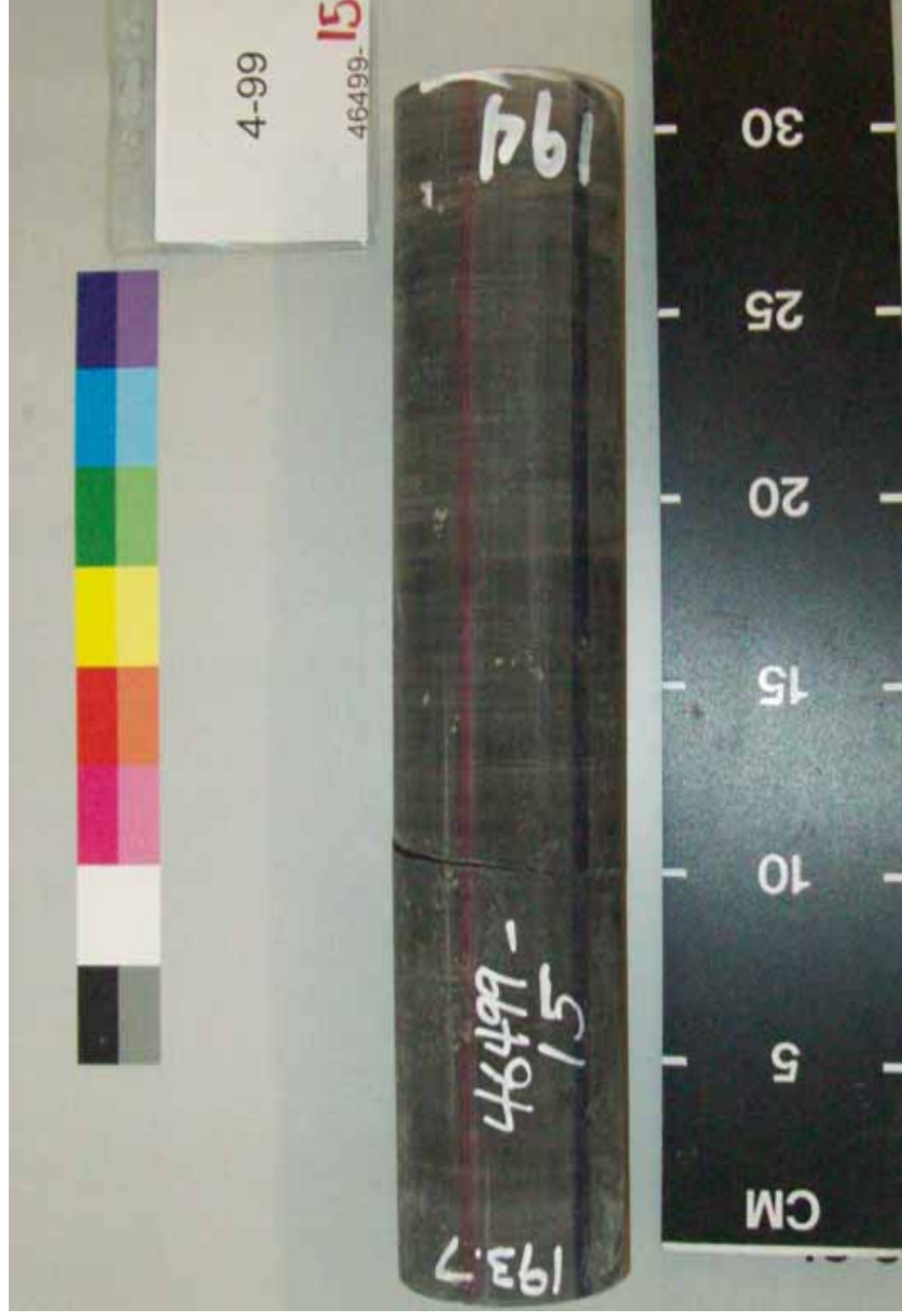


Rocky Brook Formation

WFT Labs 46499-14

Depth (meters): 187.70 - 188.00

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 33



Rocky Brook Formation	WFT Labs 46499-15	Depth (meters): 193.70 - 194.00
-----------------------	-------------------	---------------------------------

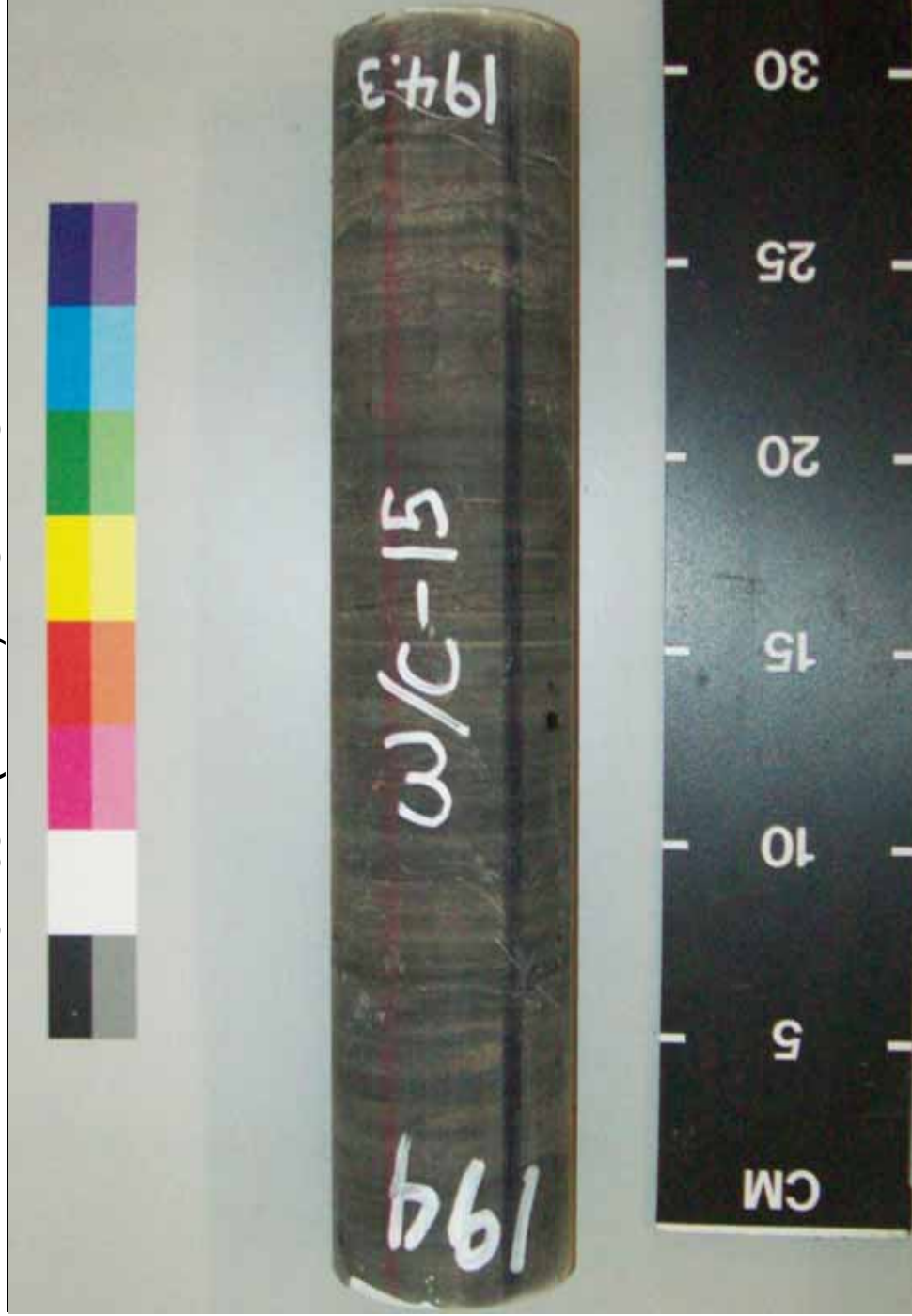
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 33

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-15

Depth (meters): 194.00 - 194.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 35



Rocky Brook Formation	WFT Labs 46499-16	Depth (meters): 199.70 - 200.00
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 35

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-16

Depth (meters): 200.00 - 200.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 37



Rocky Brook Formation	WFT Labs 46499-17	Depth (meters): 205.70 - 206.00
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 37

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-17

Depth (meters): 206.00 - 206.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 39



Rocky Brook Formation	WFT Labs 46499-18	Depth (meters): 211.03 - 211.33
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 39

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-18

Depth (meters): 211.33 - 211.63

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 41



Rocky Brook Formation	WFT Labs 46499-19	Depth (meters): 217.70 - 218.00
-----------------------	-------------------	---------------------------------

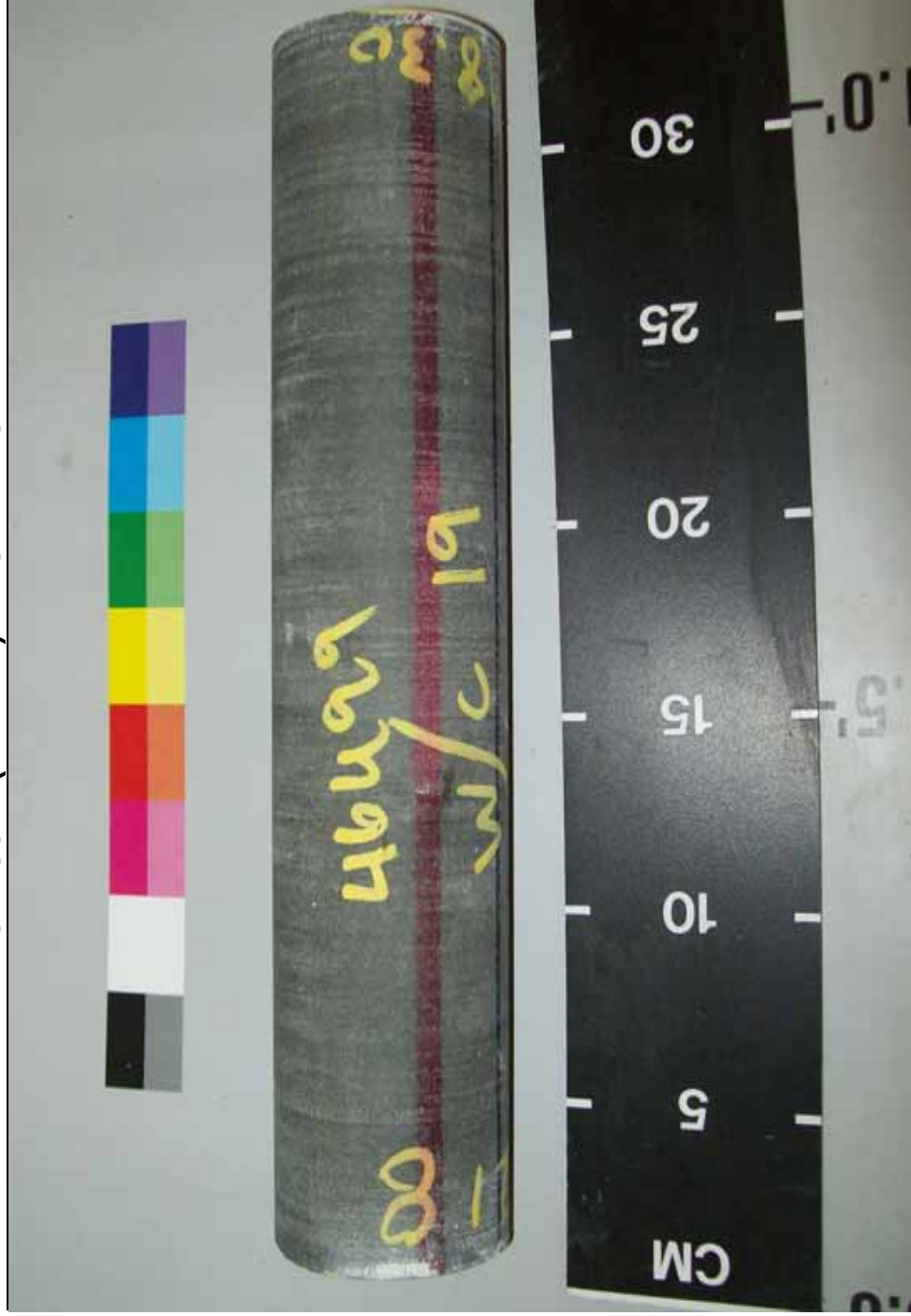
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 41

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-19

Depth (meters): 218.00 - 218.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 43



Rocky Brook Formation	WFT Labs 46499-20	Depth (meters): 223.70 - 224.00
-----------------------	-------------------	---------------------------------

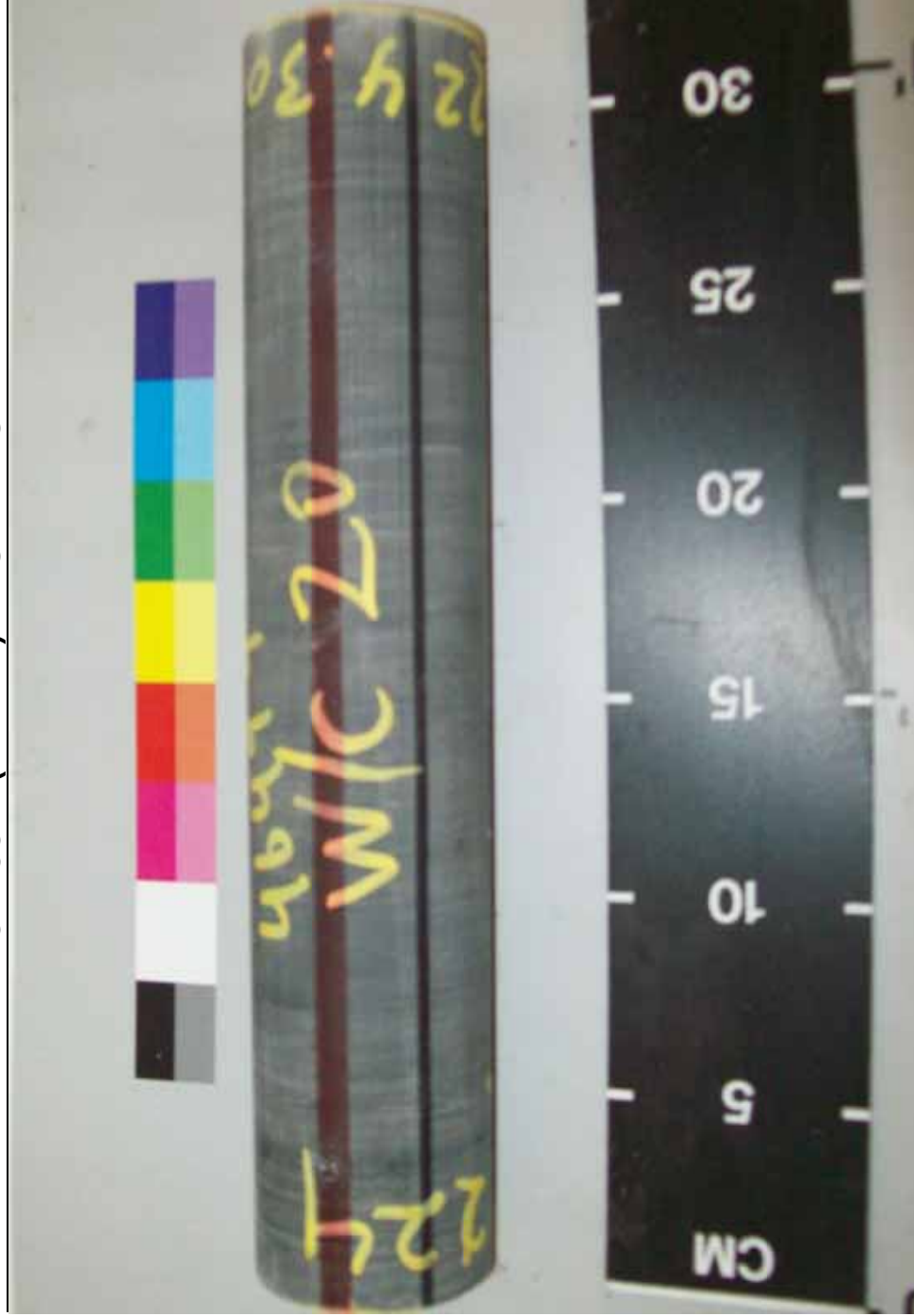
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 43

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-20

Depth (meters): 224.00 - 224.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 45



Rocky Brook Formation	WFT Labs 46499-21	Depth (meters): 229.70 - 230.00
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 45

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-21

Depth (meters): 230.00 - 230.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 47



Rocky Brook Formation	WFT Labs 46499-22	Depth (meters): 235.70 - 236.00
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 47

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-22

Depth (meters): 236.00 - 236.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 49



Rocky Brook Formation	WFT Labs 46499-23	Depth (meters): 243.00 - 243.30
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 57



Rocky Brook Formation	WFT Labs 46499-24	Depth (meters): 266.30 - 266.60
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 57

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-24

266.60 - 266.90

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 59

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-25

273.00 - 273.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 59



Rocky Brook Formation	WFT Labs 46499-25	Depth (meters): 273.33 - 273.63
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 60

2



Rocky Brook Formation	WFT Labs 46499-26	Depth (meters): 274.70 - 275.00
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 60

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

2



Rocky Brook Formation

WFT Labs 46499-26

275.00 - 275.30

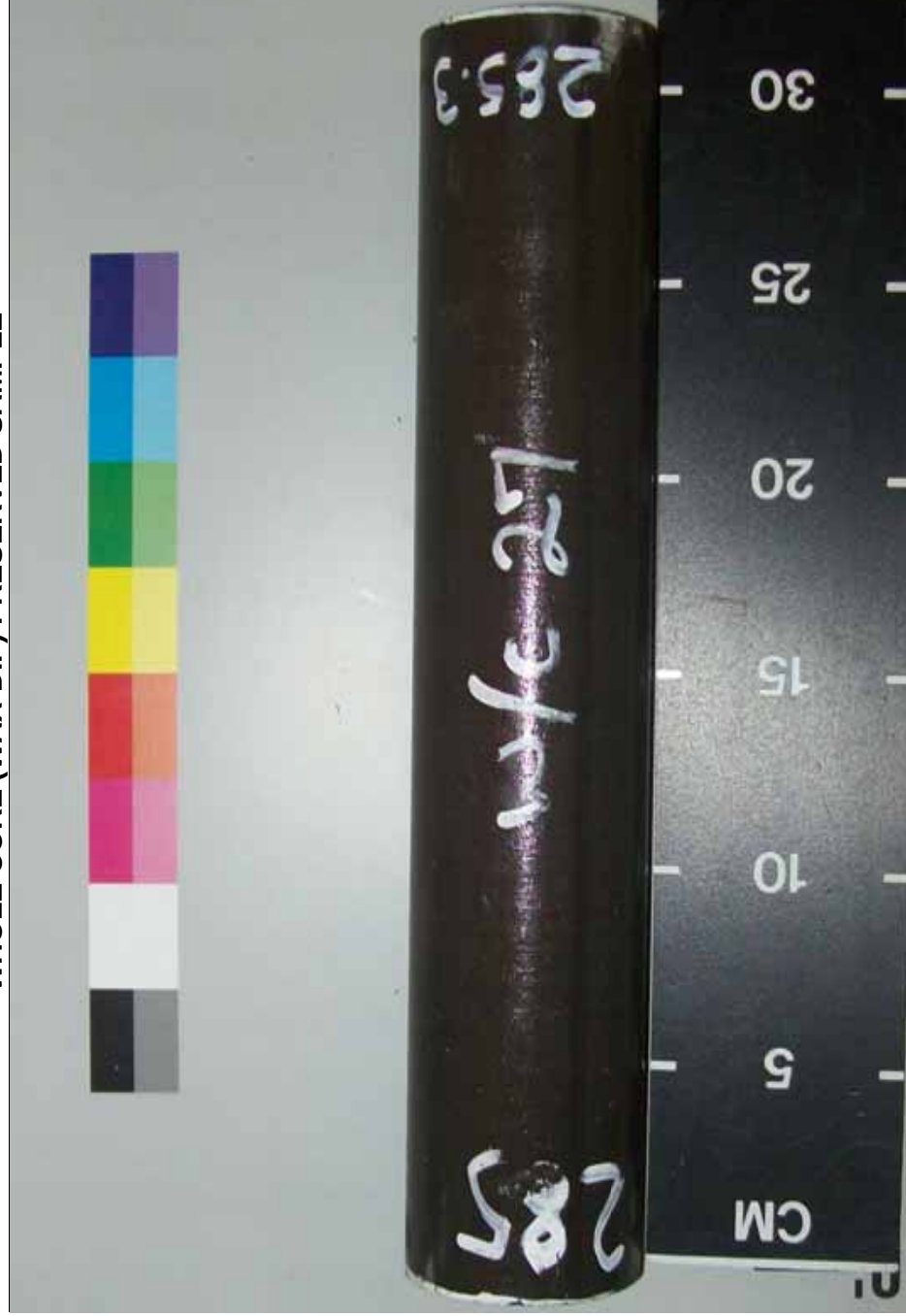
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 63

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-27

285.00 - 285.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 65

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-28	291.00 - 291.30
-----------------------	-------------------	-----------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 67

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-29

297.00 - 297.30

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 69

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-30	303.00 - 303.30
-----------------------	-------------------	-----------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 71

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-31	309.00 - 309.30
-----------------------	-------------------	-----------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 73

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-32

315.00 - 315.30

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 75

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-33	321.00 - 321.30
-----------------------	-------------------	-----------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 77

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-34	327.00 - 327.30
-----------------------	-------------------	-----------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 79

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-35	333.00 - 333.30
-----------------------	-------------------	-----------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 81

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

NO PHOTOGRAPH AVAILABLE FOR THIS SAMPLE

Rocky Brook Formation	WFT Labs 46499-36	Depth (meters): 339.00 - 339.30
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run #83

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-37	Depth (meters): 345.00 - 345.30
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 85

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation

WFT Labs 46499-38

Depth (meters): 351.00 - 351.30

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 87

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-39	Depth (meters): 357.00 - 357.30
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 89

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-40	Depth (meters): 363.00 - 363.70
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 93

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-41	Depth (meters): 374.85 - 375.15
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 94



Rocky Brook Formation	WFT Labs 46499-27	Depth (meters): 378.00 - 378.30
-----------------------	-------------------	---------------------------------

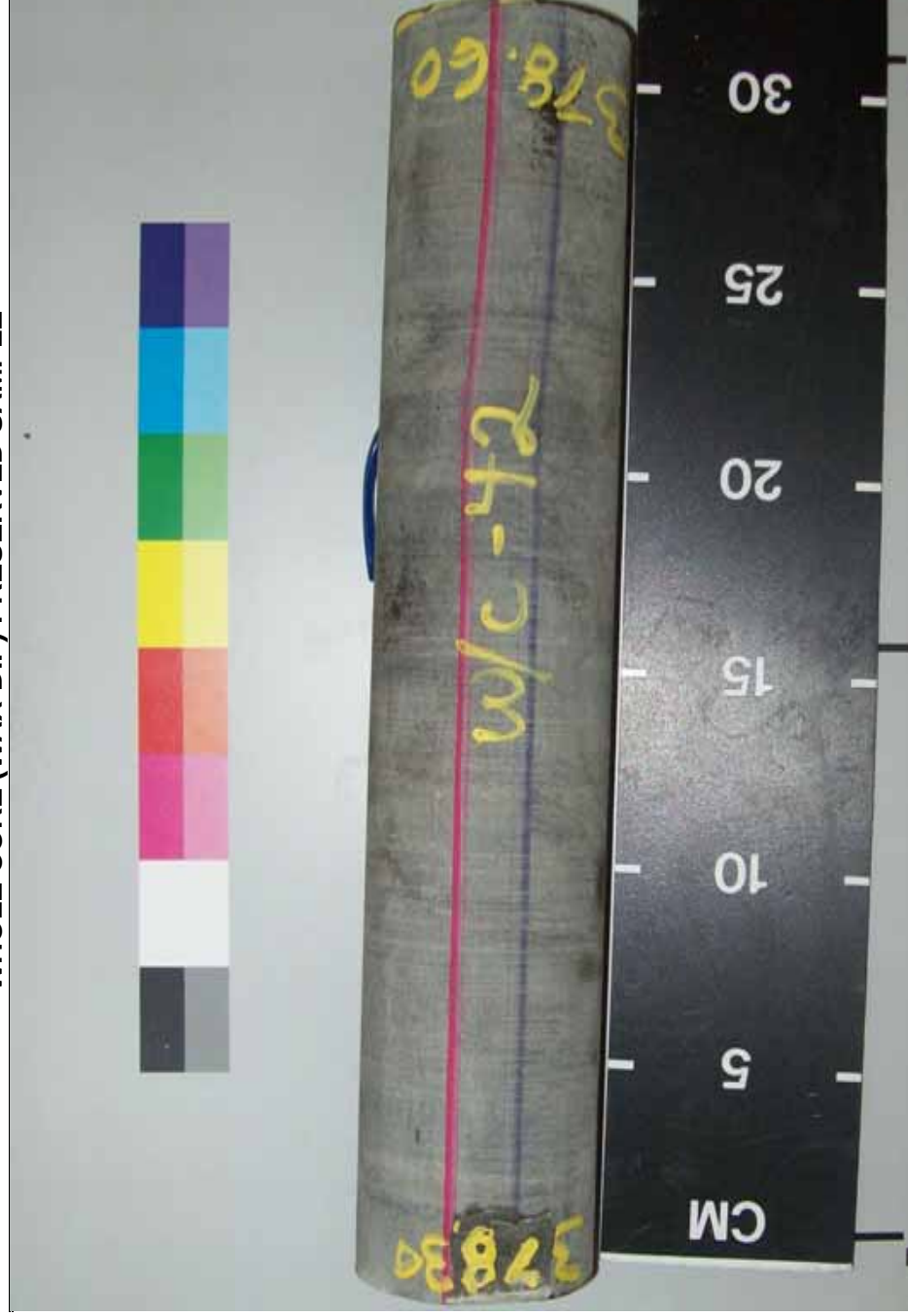
Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 94

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-42	Depth (meters): 378.30 - 378.60
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 100

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-45	Depth (meters): 396.00 - 396.30
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 101



Rocky Brook Formation	WFT Labs 46499-28	Depth (meters): 399.00 - 399.30
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 101

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

NO PHOTOGRAPH AVAILABLE FOR THIS SAMPLE

Rocky Brook Formation	WFT Labs 46499-46	Depth (meters): 399.30 - 399.60
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 103

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-47	Depth (meters): 405.00 - 405.30
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

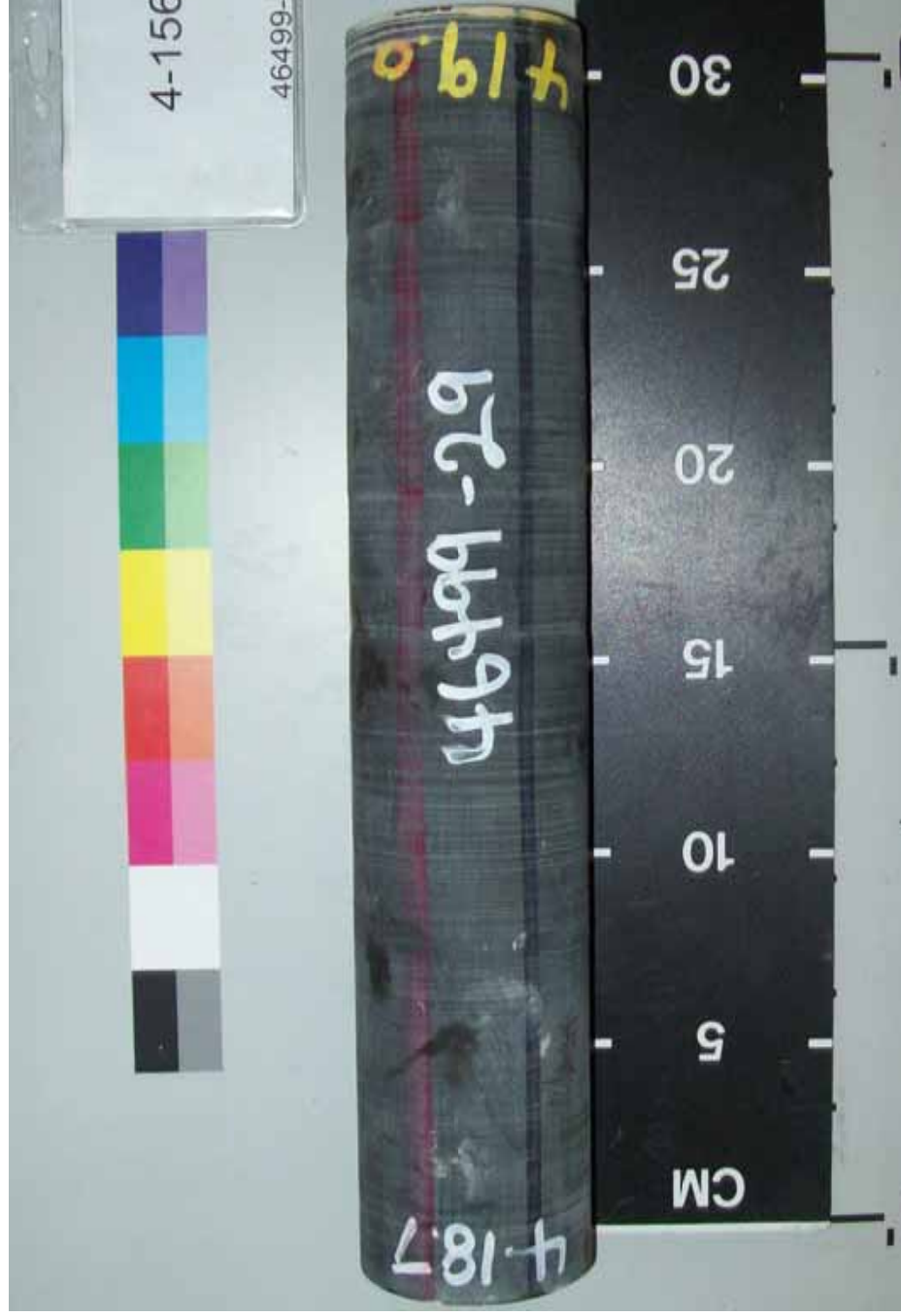
Core Run # 105

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-48	Depth (meters): 411.00 - 411.30
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Core Run # 108



Rocky Brook Formation	WFT Labs 46499-29	Depth (meters): 418.70 - 419.00
-----------------------	-------------------	---------------------------------

Core Photography
Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1

Core Run # 108

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE

2



Rocky Brook Formation	WFT Labs 46499-49	Depth (meters): 419.00 - 419.30
-----------------------	-------------------	---------------------------------

Core Photography

Deer Lake Oil & Gas, Inc.

Werner Hatch No. 1

Core Run # 110

WHOLE CORE (WAX-DIP) PRESERVED SAMPLE



Rocky Brook Formation	WFT Labs 46499-50	Depth (meters): 425.00 - 425.30
-----------------------	-------------------	---------------------------------

Appendix IV

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin
Rocky Brook Formation

Core Inventory



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 1				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	101.00	101.04	Located at top of Box #1 for Core Run #2	0.04
Total Meters:				0.04

Core No. 2				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	101.04	102.00		0.96
2	102.00	102.85		0.85
Total Meters:				1.81

Core No. 3				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	102.85	103.00		0.15
2	103.00	104.00		1.00
3	104.00	105.00		1.00
4	105.00	105.87		0.87
Total Meters:				3.02

Core No. 4				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	105.87	106.00		0.13
2	106.00	107.00	Geojar 1, Desorption 1, W/C 1	1.00
3	107.00	108.00		1.00
4	108.00	108.81		0.81
Total Meters:				2.94



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 5				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	108.81	109.00		0.19
2	109.00	110.00		1.00
3	110.00	111.00		1.00
4	111.00	111.85		0.85
Total Meters:				3.04

Core No. 6				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	111.85	112.00		0.15
2	112.00	113.00	Geojar 2, Desorption 2, W/C 2	1.00
3	113.00	114.00		1.00
4	114.00	114.76		0.76
Total Meters:				2.91

Core No. 7				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	114.85	115.00		0.15
2	115.00	116.00		1.00
3	116.00	117.00		1.00
4	117.00	117.90		0.90
Total Meters:				3.05

Core No. 8				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	117.90	119.00	Geojar 3, Desorption 3	1.10
2	119.00	120.00	W/C 3	1.00
3	120.00	120.88		0.88
Total Meters:				2.98



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 9				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	120.88	122.00		1.12
2	122.00	123.00		1.00
3	123.00	123.85		0.85
Total Meters:				2.97

Core No. 10				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	123.85	125.00	Geojar 4, Desorption 4	1.15
2	125.00	126.00	W/C 4	1.00
3	126.00	126.85		0.85
Total Meters:				3.00

Core No. 11				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	126.85	128.00		1.15
2	128.00	129.00		1.00
3	129.00	129.85		0.85
Total Meters:				3.00

Core No. 12				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	129.85	131.00		1.15
2	131.00	132.03	Geojar, Desorption, and W/C #5	1.03
3	132.03	132.90		0.87
Total Meters:				3.05



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 13				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	132.90	134.00		1.10
2	134.00	135.00		1.00
3	135.00	135.82		0.82
Total Meters:				2.92

Core No. 14				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	135.82	137.00	Geojar/Desorption #6	1.18
2	137.00	138.00	W/C #6	1.00
3	138.00	138.84		0.84
Total Meters:				3.02

Core No. 15				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	138.84	140.00		1.16
2	140.00	141.00		1.00
3	141.00	141.83		0.83
Total Meters:				2.99

Core No. 16				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	141.83	143.00	Geojar/Desorption #7	1.17
2	143.00	144.00	W/C #7	1.00
3	144.00	144.82		0.82
Total Meters:				2.99



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 17				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	144.83	146.00		1.17
2	146.00	147.00		1.00
3	147.00	147.77		0.77
Total Meters:				2.94

Core No. 18				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	147.77	149.00	Recovered milled core between 147.77-147.83m from core 17	1.23
2	149.00	150.00	Geojar/Desorption #8	1.00
3	150.00	150.75	W/C #8	0.75
Total Meters:				2.98

Core No. 19				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	150.83	152.00	Recovered milled core between 150.75-150.83m from core 18	1.17
2	152.00	153.00		1.00
3	153.00	153.83		0.83
Total Meters:				3.00

Core No. 20				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	153.83	155.00		1.17
2	155.00	156.00		1.00
3	156.00	156.80		0.80
Total Meters:				2.97



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 21				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	156.83	158.00	Recovered milled core between 156.80-156.83m from core 20	1.17
2	158.00	159.00	Geojar, Desorp, W/C #9 in box 1	1.00
3	159.00	159.83		0.83
Total Meters:				3.00

Core No. 22				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	159.83	161.00		1.17
2	161.00	162.00		1.00
3	162.00	162.83		0.83
Total Meters:				3.00

Core No. 23				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	162.83	164.00	Geojar, Desorp, W/C #10	1.17
2	164.00	165.00		1.00
3	165.00	165.85		0.85
Total Meters:				3.02

Core No. 24				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	165.85	167.00		1.15
2	167.00	168.00		1.00
3	168.00	168.81		0.81
Total Meters:				2.96

Core No. 25				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	168.81	170.00	Geojar, Desorp, W/C #11	1.19
2	170.00	171.00		1.00
3	171.00	171.81		0.81
Total Meters:				3.00



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 26				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	171.81	173.00		1.19
2	173.00	174.00		1.00
3	174.00	174.82		0.82
Total Meters:				3.01

Core No. 27				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	174.82	176.00	Geojar, Desorp, W/C #12	1.18
2	176.00	177.00		1.00
3	177.00	177.88		0.88
Total Meters:				3.06

Core No. 28				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	177.88	179.00		1.12
2	179.00	180.00		1.00
3	180.00	180.91		0.91
Total Meters:				3.03

Core No. 29				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	180.91	182.00	Geojar, Desorp, W/C #13	1.09
2	182.00	183.00		1.00
3	183.00	183.84		0.84
Total Meters:				2.93

Core No. 30				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	183.84	185.00		1.16
2	185.00	186.00		1.00
3	186.00	186.87		0.87
Total Meters:				3.03



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 31				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	186.87	188.00	Geojar, Desorp, W/C #14	1.13
2	188.00	189.00		1.00
3	189.00	189.83		0.83
Total Meters:				2.96

Core No. 32				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	189.83	191.00		1.17
2	191.00	192.00		1.00
3	192.00	192.85		0.85
Total Meters:				3.02

Core No. 33				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	192.85	194.00	Geojar, Desorp #15	1.15
2	194.00	195.00	W/C #15	1.00
3	195.00	195.90		0.90
Total Meters:				3.05

Core No. 34				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	195.90	197.00		1.10
2	197.00	198.00		1.00
3	198.00	198.85		0.85
Total Meters:				2.95

Core No. 35				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	198.85	200.00	Geojar, Desorp #16	1.15
2	200.00	201.00	W/C #16	1.00
3	201.00	201.85		0.85
Total Meters:				3.00



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 36				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	201.85	203.00		1.15
2	203.00	204.00		1.00
3	204.00	204.85		0.85
Total Meters:				3.00

Core No. 37				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	204.85	206.00	Geojar, Desorp #17	1.15
2	206.00	207.00	W/C #17	1.00
3	207.00	207.85		0.85
Total Meters:				3.00

Core No. 38				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	207.85	209.00		1.15
2	209.00	210.00		1.00
3	210.00	210.85		0.85
Total Meters:				3.00

Core No. 39				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	210.85	212.00	Geojar, Desorp, W/C #18	1.15
2	212.00	213.00		1.00
3	213.00	213.85		0.85
Total Meters:				3.00

Core No. 40				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	213.85	215.00		1.15
2	215.00	216.00		1.00
3	216.00	216.81		0.81
Total Meters:				2.96



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 41				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	216.81	218.00	Geojar, Desorp #19	1.19
2	218.00	219.00	W/C #19	1.00
3	219.00	219.84		0.84
Total Meters:				3.03

Core No. 42				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	219.84	221.00		1.16
2	221.00	222.00		1.00
3	222.00	222.84		0.84
Total Meters:				3.00

Core No. 43				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	222.84	224.00	Geojar, Desorp #20	1.16
2	224.00	225.00	W/C #20	1.00
3	225.00	225.84		0.84
Total Meters:				3.00

Core No. 44				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	225.84	227.00		1.16
2	227.00	228.00		1.00
3	228.00	228.83		0.83
Total Meters:				2.99

Core No. 45				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	228.83	230.00	Geojar, Desorp #21	1.17
2	230.00	231.00	W/C #21	1.00
3	231.00	231.85		0.85
Total Meters:				3.02



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 46				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	231.85	233.00		1.15
2	233.00	234.00		1.00
3	234.00	234.83		0.83
Total Meters:				2.98

Core No. 47				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	234.83	236.00	Geojar, Desorp #22	1.17
2	236.00	237.00	W/C #22	1.00
3	237.00	237.81		0.81
Total Meters:				2.98

Core No. 48				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	237.81	239.00		1.19
2	239.00	240.00		1.00
3	240.00	240.81		0.81
Total Meters:				3.00

Core No. 49				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	240.81	242.00		1.19
2	242.00	243.00		1.00
3	243.00	243.79	Geojar, Desorp, W/C #23	0.79
Total Meters:				2.98

Core No. 50				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	243.79	245.00		1.21
2	245.00	246.00		1.00
3	246.00	246.76		0.76
Total Meters:				2.97



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 51				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	246.76	248.00		1.24
2	248.00	249.00		1.00
3	249.00	249.85		0.85
Total Meters:				3.09

Core No. 52				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	249.85	251.00		1.15
2	251.00	252.00		1.00
3	252.00	252.80		0.80
Total Meters:				2.95

Core No. 53				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	252.80	254.00		1.20
2	254.00	255.00		1.00
3	255.00	255.85		0.85
Total Meters:				3.05

Core No. 54				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	255.85	257.00		1.15
2	257.00	258.00		1.00
3	258.00	258.85		0.85
Total Meters:				3.00

Core No. 55				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	258.85	260.00		1.15
2	260.00	261.00		1.00
3	261.00	261.85		0.85
Total Meters:				3.00



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 56				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	261.85	263.00		1.15
2	263.00	264.00		1.00
3	264.00	264.85		0.85
Total Meters:				3.00

Core No. 57				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	264.85	266.00		1.15
2	266.00	267.00		1.00
3	267.00	267.85		0.85
Total Meters:				3.00

Core No. 58				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	267.85	269.00		1.15
2	269.00	270.00		1.00
3	270.00	270.81		0.81
Total Meters:				2.96

Core No. 59				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	270.85	272.00		1.15
2	272.00	273.00		1.00
3	273.00	273.81		0.81
Total Meters:				2.96

Core No. 60				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	273.81	275.00		1.19
2	275.00	276.00		1.00
3	276.00	276.88		0.88
Total Meters:				3.07



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 61				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	276.88	278.00		1.12
2	278.00	279.00		1.00
3	279.00	279.77		0.77
Total Meters:				2.89

Core No. 62				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	279.77	281.00		1.23
2	281.00	282.00		1.00
3	282.00	282.84		0.84
Total Meters:				3.07

Core No. 63				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	282.84	284.00		1.16
2	284.00	285.00		1.00
3	285.00	285.88		0.88
Total Meters:				3.04

Core No. 64				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	285.88	287.00		1.12
2	287.00	288.00		1.00
3	288.00	288.82		0.82
Total Meters:				2.94

Core No. 65				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	288.82	290.00		1.18
2	290.00	291.00		1.00
3	291.00	291.80		0.80
Total Meters:				2.98



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 66				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	291.80	293.00		1.20
2	293.00	294.00		1.00
3	294.00	294.81		0.81
Total Meters:				3.01

Core No. 67				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	294.81	296.00		1.19
2	296.00	296.97		0.97
3	296.97	297.81		0.84
Total Meters:				3.00

Core No. 68				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	297.81	299.00		1.19
2	299.00	300.00		1.00
3	300.00	300.82		0.82
Total Meters:				3.01

Core No. 69				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	300.81	302.00		1.19
2	302.00	302.97		0.97
3	302.97	303.86		0.89
Total Meters:				3.05

Core No. 70				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	303.86	305.00		1.14
2	305.00	306.00		1.00
3	306.00	306.86		0.86
Total Meters:				3.00



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 71				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	306.86	308.00		1.14
2	308.00	308.97		0.97
3	308.97	309.82		0.85
Total Meters:				2.96

Core No. 72				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	309.82	311.00		1.18
2	311.00	312.00		1.00
3	312.00	312.81		0.81
Total Meters:				2.99

Core No. 73				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	312.81	314.00		1.19
2	314.00	314.97		0.97
3	314.97	315.88		0.91
Total Meters:				3.07

Core No. 74				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	315.88	317.00		1.12
2	317.00	318.00		1.00
3	318.00	318.75		0.75
Total Meters:				2.87

Core No. 75				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	318.75	320.00		1.25
2	320.00	321.00		1.00
3	321.00	321.83		0.83
Total Meters:				3.08



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 76				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	321.83	323.00		1.17
2	323.00	324.00		1.00
3	324.00	324.83		0.83
Total Meters:				3.00

Core No. 77				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	324.83	326.00		1.17
2	326.00	327.00		1.00
3	327.00	327.82		0.82
Total Meters:				2.99

Core No. 78				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	327.82	329.00		1.18
2	329.00	330.00		1.00
3	330.00	330.85		0.85
Total Meters:				3.03

Core No. 79				
Box Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1	330.85	332.00		1.15
2	332.00	333.00		1.00
3	333.00	333.74		0.74
Total Meters:				2.89

Core No. 80				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	333.85	334.64	4" Boxes used for remainder of	0.79
1 / 2	334.64	335.39	core. Core separated into two	0.75
2 / 3	335.39	336.13	boxes, split into two bags each.	0.74
2 / 4	336.13	336.85		0.72
Total Meters:				3.00



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 81				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	336.85	337.60		0.75
1 / 2	337.60	338.35		0.75
2 / 3	338.35	339.30		0.95
2 / 4	339.30	339.70		0.40

Total Meters: 2.85

Core No. 82				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	339.70	340.46		0.76
1 / 2	340.46	341.21		0.75
2 / 3	341.21	341.96		0.75
2 / 4	341.96	342.82		0.86

Total Meters: 3.12

Core No. 83				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	342.82	343.57		0.75
1 / 2	343.57	344.32		0.75
2 / 3	344.32	344.90		0.58
2 / 4	344.90	345.80		0.90

Total Meters: 2.98

Core No. 84				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	345.80	346.55		0.75
1 / 2	346.55	347.30		0.75
2 / 3	347.30	348.06		0.76
2 / 4	348.06	348.73		0.67

Total Meters: 2.93

Core No. 85				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	348.73	349.49		0.76
1 / 2	349.49	350.24		0.75
2 / 3	350.24	350.97		0.73
2 / 4	350.97	351.81		0.84

Total Meters: 3.08



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 86				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	351.81	352.56		0.75
1 / 2	352.56	353.31		0.75
2 / 3	353.31	354.08		0.77
2 / 4	354.08	354.78		0.70
Total Meters:				2.97
Core No. 87				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	354.78	355.52		0.74
1 / 2	355.52	356.27		0.75
2 / 3	356.27	356.97		0.70
2 / 4	356.97	357.76		0.79
Total Meters:				2.98
Core No. 88				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	357.76	358.51		0.75
1 / 2	358.51	359.26		0.75
2 / 3	359.26	360.00		0.74
2 / 4	360.00	360.72		0.72
Total Meters:				2.96
Core No. 89				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	360.72	361.47		0.75
1 / 2	361.47	362.22		0.75
2 / 3	362.22	363.00		0.78
2 / 4	363.00	363.80		0.80
Total Meters:				3.08
Core No. 90				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	363.80	364.55		0.75
1 / 2	364.55	365.27		0.72
2 / 3	365.27	366.00		0.73
2 / 4	366.00	366.76		0.76



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Total Meters: 2.96

Core No. 91				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	366.85	367.60		0.75
1 / 2	367.60	368.35		0.75
2 / 3	368.35	369.10		0.75
2 / 4	369.10	369.81		0.71

Total Meters: 2.96

Core No. 92				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	369.81	370.60		0.79
1 / 2	370.60	371.64		1.04
2 / 3	371.64	372.10		0.46
2 / 4	372.10	372.89		0.79

Total Meters: 3.08

Core No. 93				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	372.89	373.60		0.71
1 / 2	373.60	374.35		0.75
2 / 3	374.35	375.15		0.80
2 / 4	375.15	375.90		0.75

Total Meters: 3.01

Core No. 94				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	375.90	376.65		0.75
1 / 2	376.65	377.40		0.75
2 / 3	377.40	378.20		0.80
2 / 4	378.20	378.91		0.71

Total Meters: 3.01



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 95				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	378.91	379.60		0.69
1 / 2	379.60	380.38		0.78
2 / 3	380.38	381.10		0.72
2 / 4	381.10	381.83		0.73
Total Meters:				2.92

Core No. 96				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	381.83	382.60		0.77
1 / 2	382.60	383.35		0.75
2 / 3	383.35	384.10		0.75
2 / 4	384.10	384.81		0.71
Total Meters:				2.98

Core No. 97				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	384.81	385.56		0.75
1 / 2	385.56	386.31		0.75
2 / 3	386.31	387.06		0.75
2 / 4	387.06	387.79		0.73
Total Meters:				2.98

Core No. 98				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	387.79	388.53		0.74
1 / 2	388.53	389.29		0.76
2 / 3	389.29	390.05		0.76
2 / 4	390.05	390.72		0.67
Total Meters:				2.93



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 99				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	390.72	391.48		0.76
1 / 2	391.48	392.27		0.79
2 / 3	392.27	393.97		1.70
2 / 4	393.97	393.83		-0.14
Total Meters:				3.11

Core No. 100				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	393.83	394.58		0.75
1 / 2	394.58	395.33		0.75
2 / 3	395.33	395.97		0.64
2 / 4	395.97	396.74		0.77
Total Meters:				2.91

Core No. 101				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	396.74	397.49		0.75
1 / 2	397.49	398.24		0.75
2 / 3	398.24	398.93		0.69
2 / 4	398.93	399.79		0.86
Total Meters:				3.05

Core No. 102				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	399.79	400.60		0.81
1 / 2	400.60	401.35		0.75
2 / 3	401.35	402.10		0.75
2 / 4	402.10	402.72		0.62
Total Meters:				2.93



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 103				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	402.72	403.50		0.78
1 / 2	403.50	404.25		0.75
2 / 3	404.25	405.00		0.75
2 / 4	405.00	405.78		0.78
Total Meters:				3.06

Core No. 104				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	405.78	406.50		0.72
1 / 2	406.50	407.25		0.75
2 / 3	407.25	408.00		0.75
2 / 4	408.00	408.80		0.80
Total Meters:				3.02

Core No. 105				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	408.80	409.50		0.70
1 / 2	409.50	410.25		0.75
2 / 3	410.25	411.00		0.75
2 / 4	411.00	411.74		0.74
Total Meters:				2.94

Core No. 106				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	411.74	412.50		0.76
1 / 2	412.50	413.25		0.75
2 / 3	413.25	414.00		0.75
2 / 4	414.00	414.76		0.76
Total Meters:				3.02

Core No. 107				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	414.76	415.52		0.76
1 / 2	415.52	416.25		0.73
2 / 3	416.25	417.00		0.75
2 / 4	417.00	417.81		0.81
Total Meters:				3.05



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 108				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	417.81	418.50		0.69
1 / 2	418.50	419.30		0.80
2 / 3	419.30	420.00		0.70
2 / 4	420.00	420.77		0.77
Total Meters:				2.96

Core No. 109				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	420.77	421.50		0.73
1 / 2	421.50	422.25		0.75
2 / 3	422.25	423.00		0.75
2 / 4	423.00	423.76		0.76
Total Meters:				2.99

Core No. 110				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	423.76	424.51		0.75
1 / 2	424.51	425.30		0.79
2 / 3	425.30	426.10		0.80
2 / 4	426.10	426.74		0.64
Total Meters:				2.98

Core No. 111				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	426.74	427.49		0.75
1 / 2	427.49	428.24		0.75
2 / 3	428.24	428.99		0.75
2 / 4	428.99	429.74		0.75
Total Meters:				3.00

Core No. 112				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	429.74	430.51		0.77
1 / 2	430.51	431.17		0.66
2 / 3	431.17	432.10		0.93
2 / 4	432.10	432.85		0.75
Total Meters:				3.11



3/30/2010

Wellsite Core Inventory

Deer Lake Oil & Gas, Inc.
Werner Hatch No. 1
Deer Lake Basin

Location
File: 46499

Core No. 113				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	432.85	433.60		0.75
1 / 2	433.60	434.35		0.75
2 / 3	434.35	435.11		0.76
2 / 4	435.11	435.84		0.73
Total Meters:				2.99

Core No. 114				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	435.84	436.68		0.84
1 / 2	436.68	437.23		0.55
2 / 3	437.23	438.09		0.86
2 / 4	438.09	438.84		0.75
Total Meters:				3.00

Core No. 115				
Box / Bag Number	Top Depth, meters	Bottom Depth, meters	Comments:	Meters
1 / 1	438.84	439.58		0.74
1 / 2	439.58	440.33		0.75
2 / 3	440.33	441.08		0.75
2 / 4	441.08	441.84		0.76
Total Meters:				3.00

Core handled on location by: Steve Hall and Paul Kane

ATTACHMENT # 7
Weatherford Core Geochem Analysis



Well Name : WERNER HATCH NO. 1

Operator :
API # :

State :
County :

Weatherford Labs Project
NF-46499 / 10-288-A

Client ID	Depth (m) Top	Formation	Sample Type	Sample Prep	*	TOC	SRA			Tmax (°C)	**	Meas. % Ro	HI	OI	S2/S3	S1/TOC *100	PI	Notes		Lab ID
							S1	S2	S3									Checks	Pyrogram	
5-4CK	111.55		Core	NOPR		3.38	0.79	23.03	0.45	439			681	13	51	23	0.03	SRA TOC	n	DL000095
8-2CK	119.3		Core	NOPR		1.83	0.27	9.75	0.54	434			534	30	18	15	0.03	TOC	n	DL000096
10-3CK	125.4		Core	NOPR		0.31												TOC		DL000097
13-2CK	133.6		Core	NOPR		1.24	0.29	5.41	0.58	426			436	47	9	23	0.05	TOC	n	DL000098
17-2-1CK	145.8		Core	NOPR		1.69	0.56	9.53	0.44	430			563	26	22	33	0.06	TOC	n	DL000099
20-2CK	154.5		Core	NOPR		1.84	0.51	10.57	0.55	435			574	30	19	28	0.05	TOC	n	DL000100
28-3CK	179		Core	NOPR		2.07	0.33	14.30	0.43	438			692	21	33	16	0.02	SRA TOC	n	DL000101
29.4CK	183.5		Core	NOPR		2.17	0.42	14.09	0.65	438			651	30	22	19	0.03	TOC	n	DL000102
32-2-1-CK	190.6		Core	NOPR		0.65	0.08	1.11	0.85	436			170	130	1	12	0.07	SRA TOC	n	DL000103
35-3CK	200.45		Core	NOPR		3.85	0.68	26.96	1.02	439			700	27	26	18	0.02	SRA TOC	n	DL000104
38-1CK	207.95		Core	NOPR		0.31												TOC		DL000105
42-2CK	220.3		Core	NOPR		1.20	0.17	6.08	0.45	436			505	37	14	14	0.03	SRA TOC	n	DL000106
46-1CK	231.95		Core	NOPR		3.24	0.38	22.16	0.86	441			683	27	26	12	0.02	TOC	n	DL000107
47-3CK	236.4		Core	NOPR		1.93	0.27	8.66	0.94	440			448	49	9	14	0.03	TOC	n	DL000108
50-1CK	243.85		Core	NOPR		6.87	1.70	59.38	0.39	447			864	6	152	25	0.03	SRA TOC	n	DL000109
52-2-1CK	250.72		Core	NOPR		2.68	0.55	14.16	0.98	437			528	37	14	21	0.04	TOC	n	DL000110
56-3CK	263		Core	NOPR		8.37	1.50	72.68	0.53	444			869	6	137	18	0.02	SRA TOC	n	DL000111
57-3-1CK	266.9		Core	NOPR		4.17	0.84	38.34	0.98	441			920	24	39	20	0.02	SRA TOC	n	DL000112
61-3CK	278		Core	NOPR		1.26	0.20	4.81	0.78	439			383	62	6	16	0.04	SRA TOC	n	DL000113
74-3-1CK	317.95		Core	NOPR		0.19												TOC		DL000114
76-3CK	323		Core	NOPR		0.54	0.05	1.00	1.58	438			184	290	1	9	0.05	TOC	n	DL000115
82-4CK	341.2		Core	NOPR		0.34												TOC		DL000116
85-2CK	349.7		Core	NOPR		0.65	0.07	2.16	0.73	440			331	112	3	11	0.03	SRA TOC	n	DL000117
87-3-1CK	356.4		Core	NOPR		1.81	0.19	8.11	1.07	440			449	59	8	11	0.02	TOC	n	DL000118
90-3CK	365.37		Core	NOPR		0.46												TOC		DL000119
96-3CK	383.1		Core	NOPR		2.93	0.58	19.63	0.59	441			670	20	33	20	0.03	SRA TOC	n	DL000120
102-1CK	399.94		Core	NOPR		1.27	0.15	5.20	0.72	438			411	57	7	12	0.03	SRA TOC	n	DL000121
104-2CK	406.9		Core	NOPR		0.45												TOC		DL000122
111-1-1CK	427.05		Core	NOPR		0.28												TOC		DL000123
111-1-2CK	427.45		Core	NOPR		0.33												TOC		DL000124

Notes:

"-1"- not measured or invalid value for T_{max}

TOC - Total Organic Carbon, wt. %

S1 - volatile hydrocarbon (HC) content, mg HC/ g rock

S2 - remaining HC generative potential, mg HC/ g rock

S3 - carbon dioxide content, mg CO₂/ g rock

* - comments regarding contamination

** - low S2, Tmax is unreliable

Meas. %Ro - measured vitrinite reflectance

HI - Hydrogen index = S2 x 100 / TOC, mg HC/ g TOC

OI - Oxygen Index = S3 x 100 / TOC, mg CO₂/ g TOC

PI - Production Index = S1 / (S1+S2)

Pyrogram:

f - flat S2 peak

n - normal

ltS2sh - low temperature S2 shoulder

ltS2p - low temperature S2 peak

htS2p - high temperature S2 peak

SRA - Programmed pyrolysis on SRA instrument

RE - Programmed pyrolysis on Rock-Eval instrument

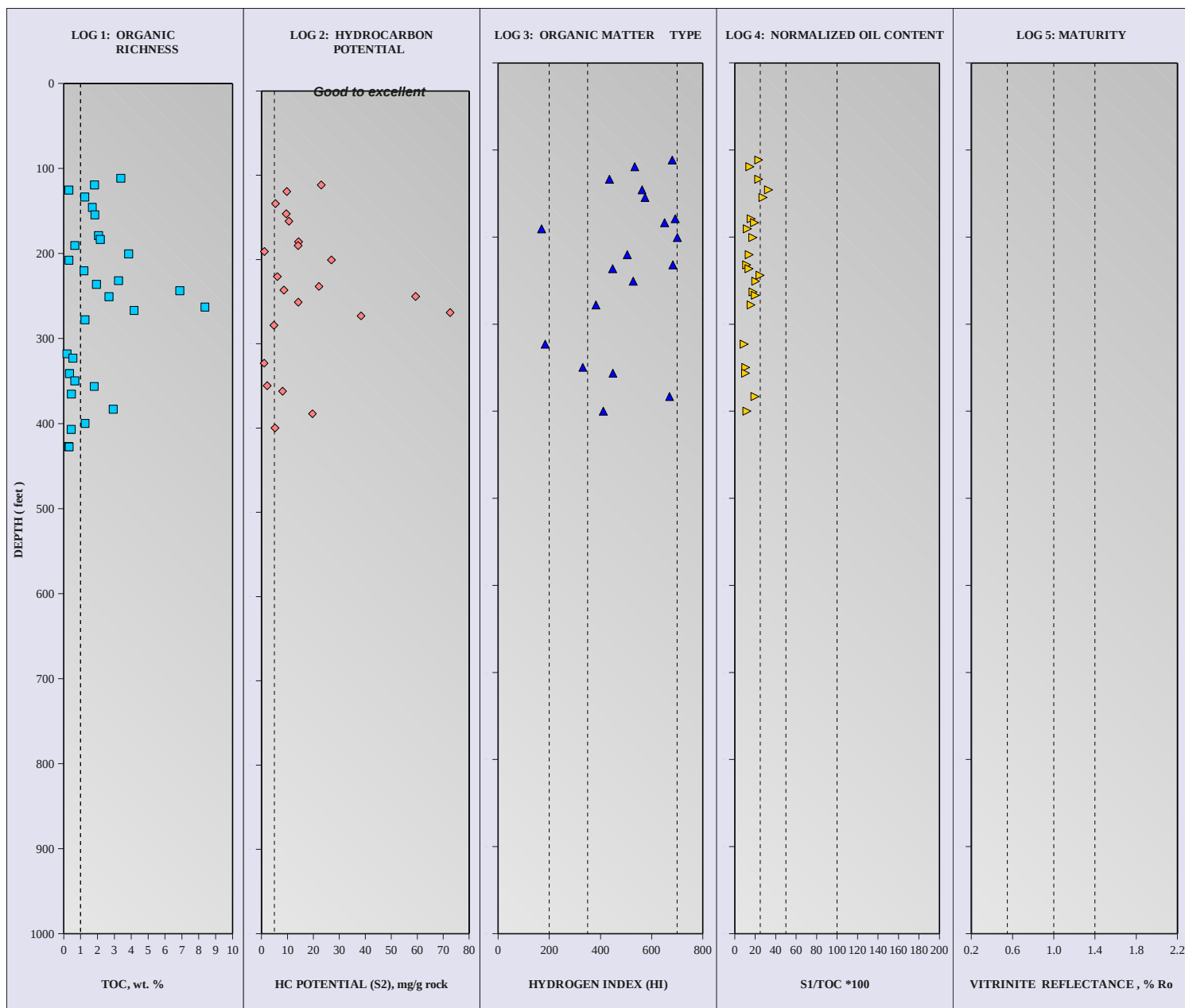
EXT - Extracted Rock

NOPR - Normal Preparation

GEOCHEMICAL LOGS - WERNER HATCH NO. 1

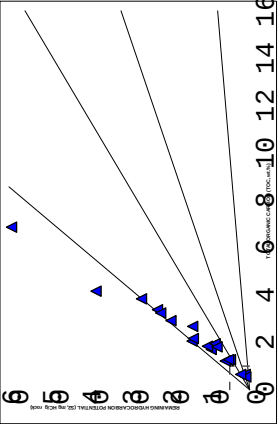
Company: DEER LAKE OIL & GAS INC.

Project #: NF-46499 / 10-288-A



Labels may not be properly located unless the Excel view is set to 100%.

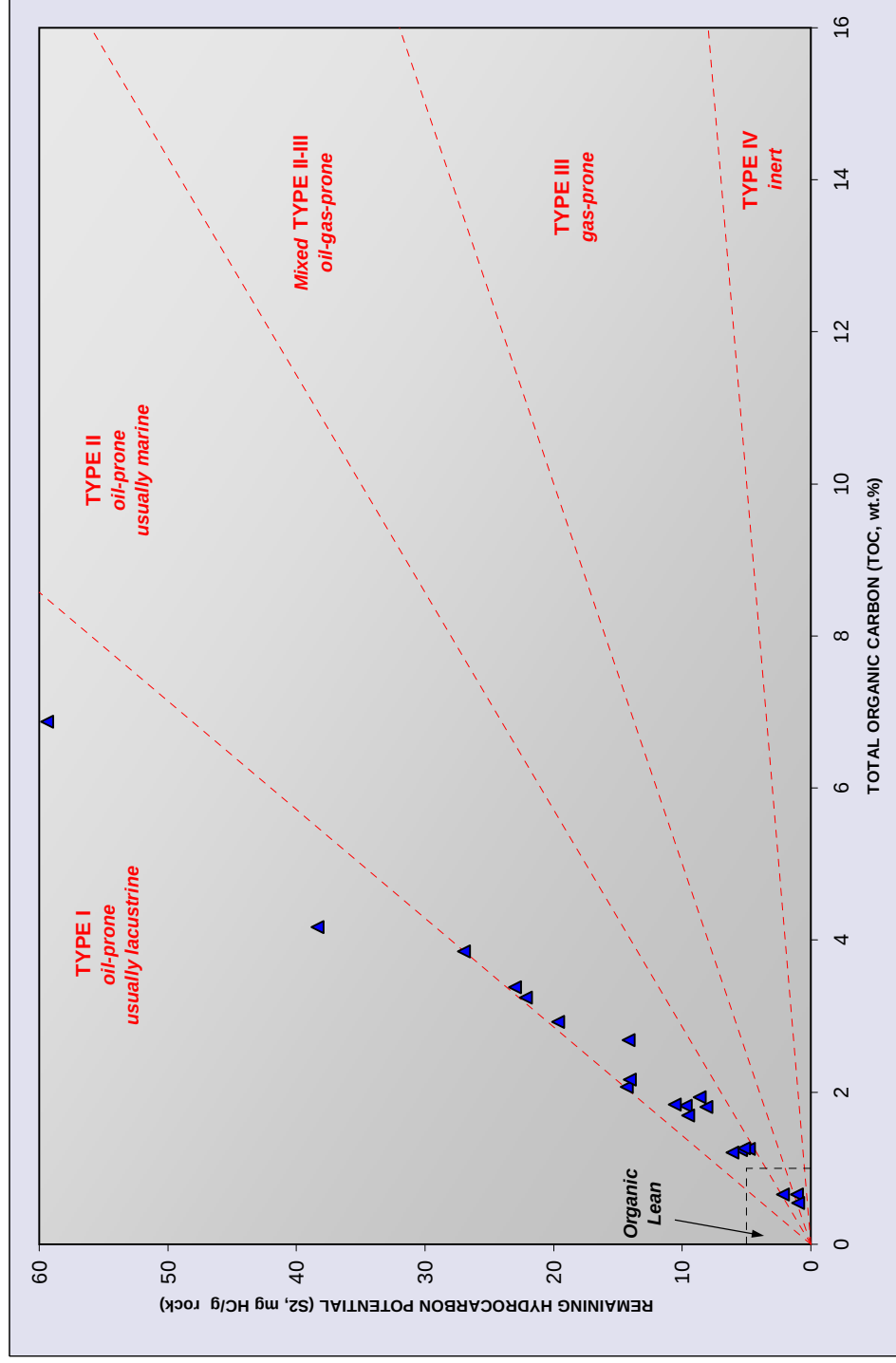
Some values may exceed the chart ranges.



KEROGEN QUALITY PLOT - WERNER HATCH NO. 1

Company: DEER LAKE OIL & GAS INC.

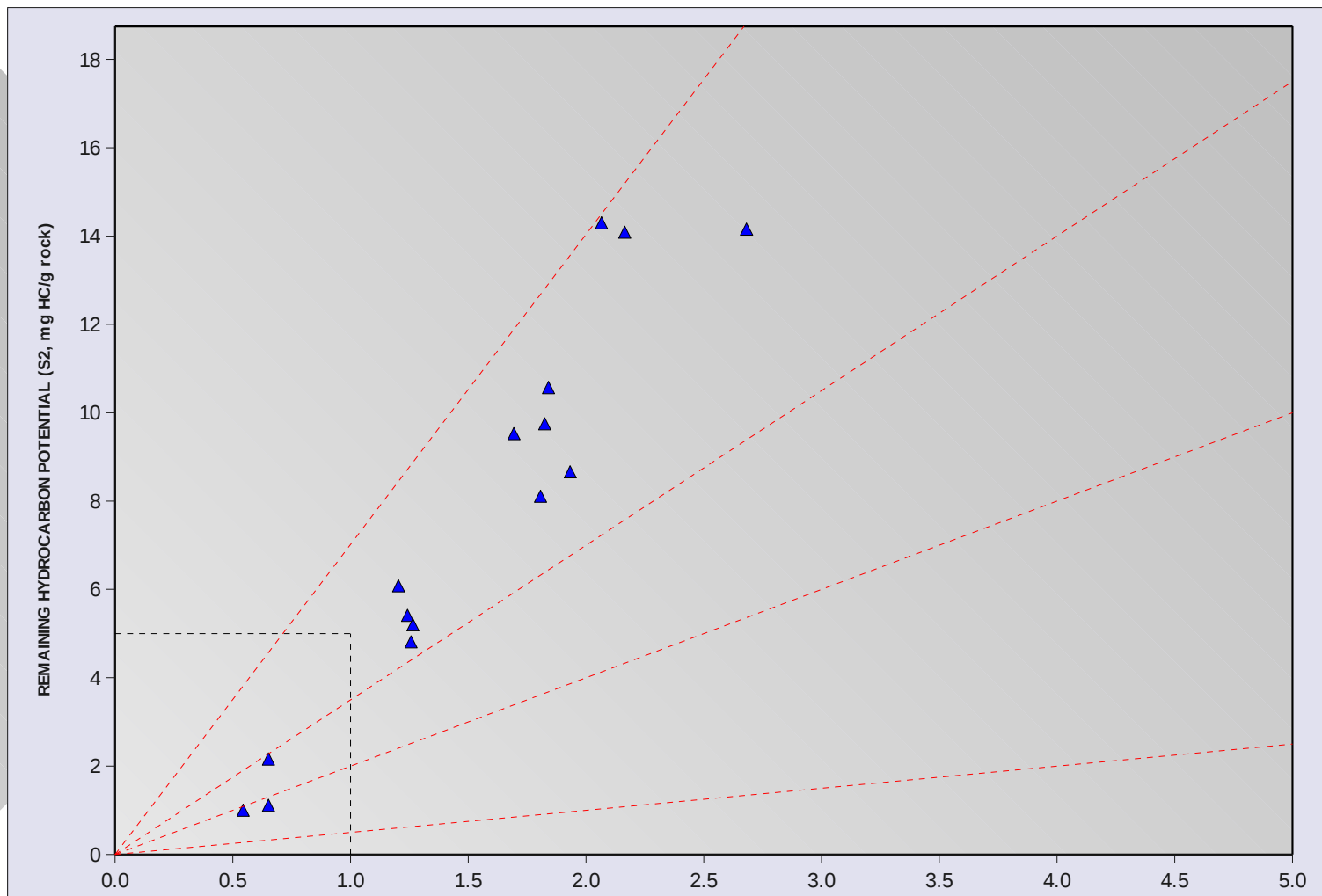
Project #: NF-46499 / 10-288-A

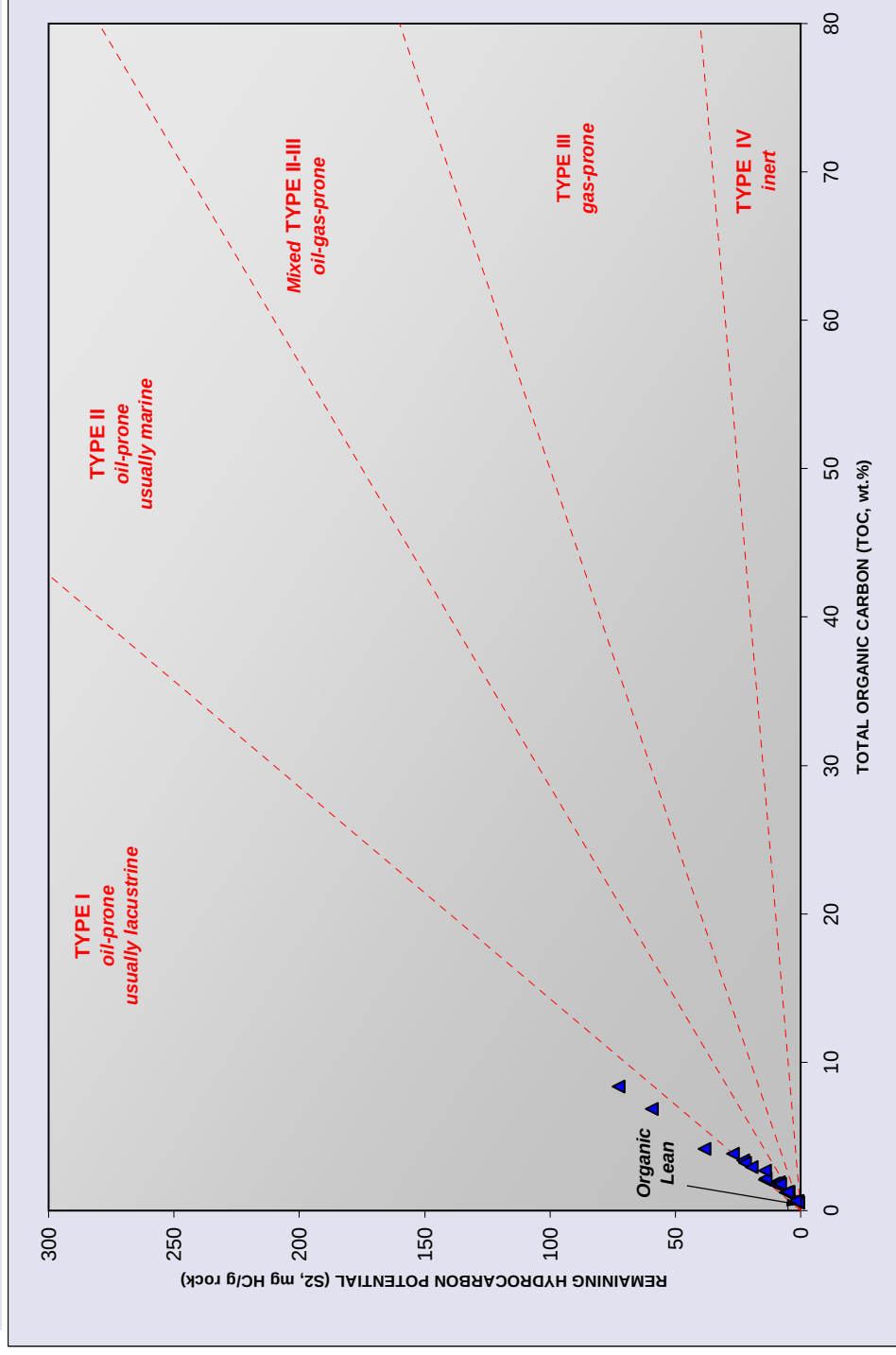


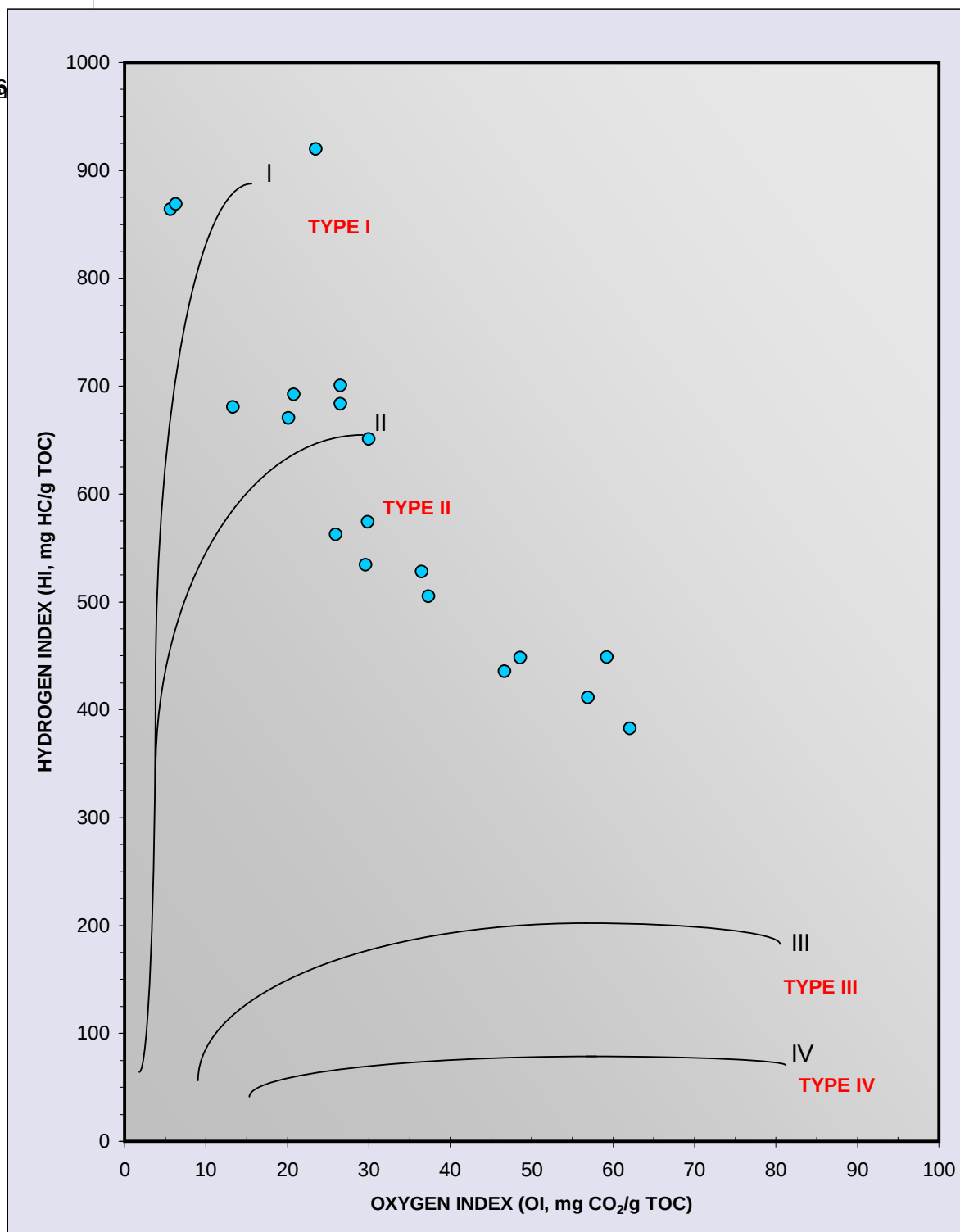
KEROGEN QUALITY PLOT - WERNER HATCH NO. 1

Company: DEER LAKE OIL & GAS INC.

Project #: NF-46499 / 10-288-A



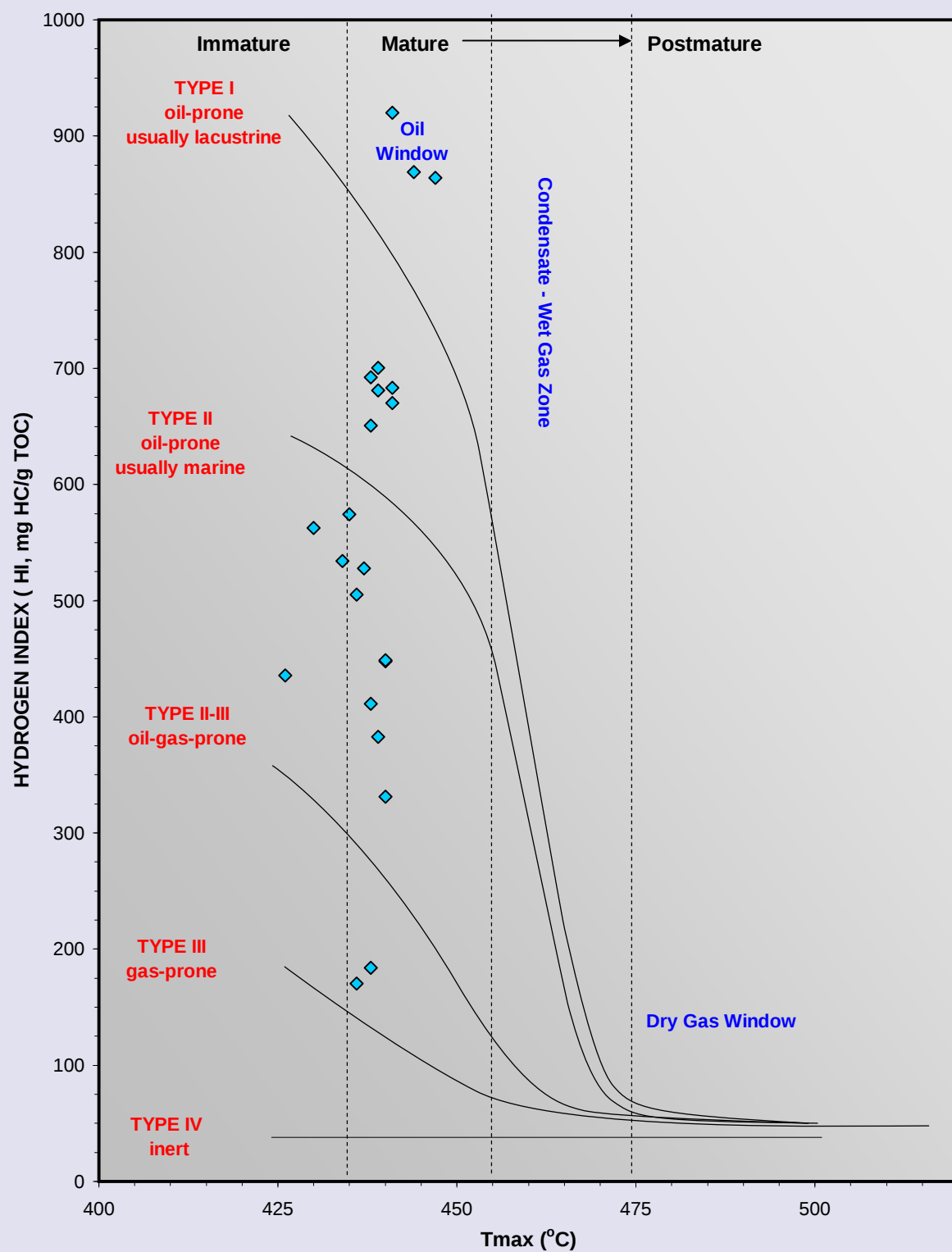




KEROGEN TYPE AND MATURITY (Tmax) - WERNER HATCH NO. 1

Company: DEER LAKE OIL & GAS INC.

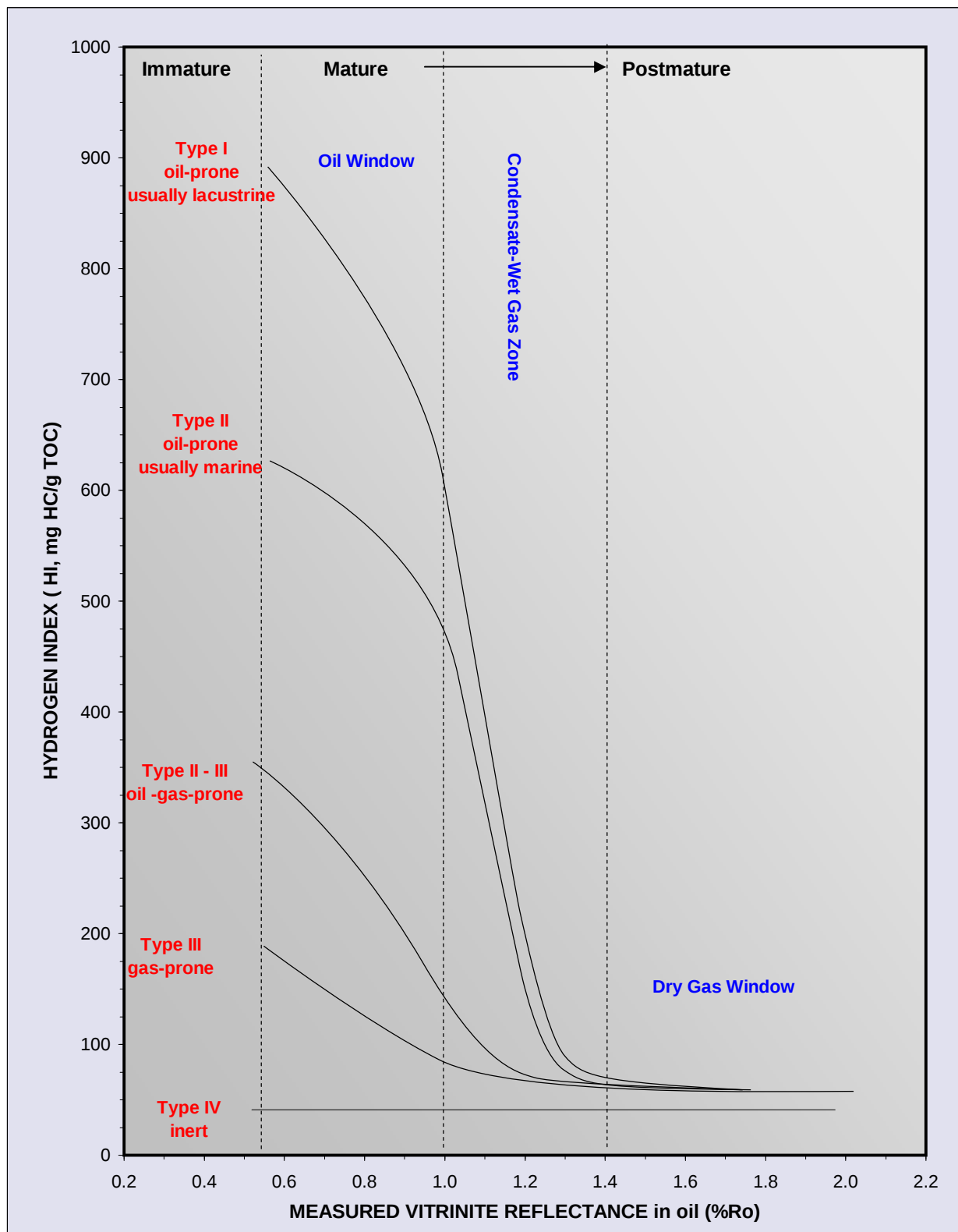
Project #: NF-46499 / 10-288-A

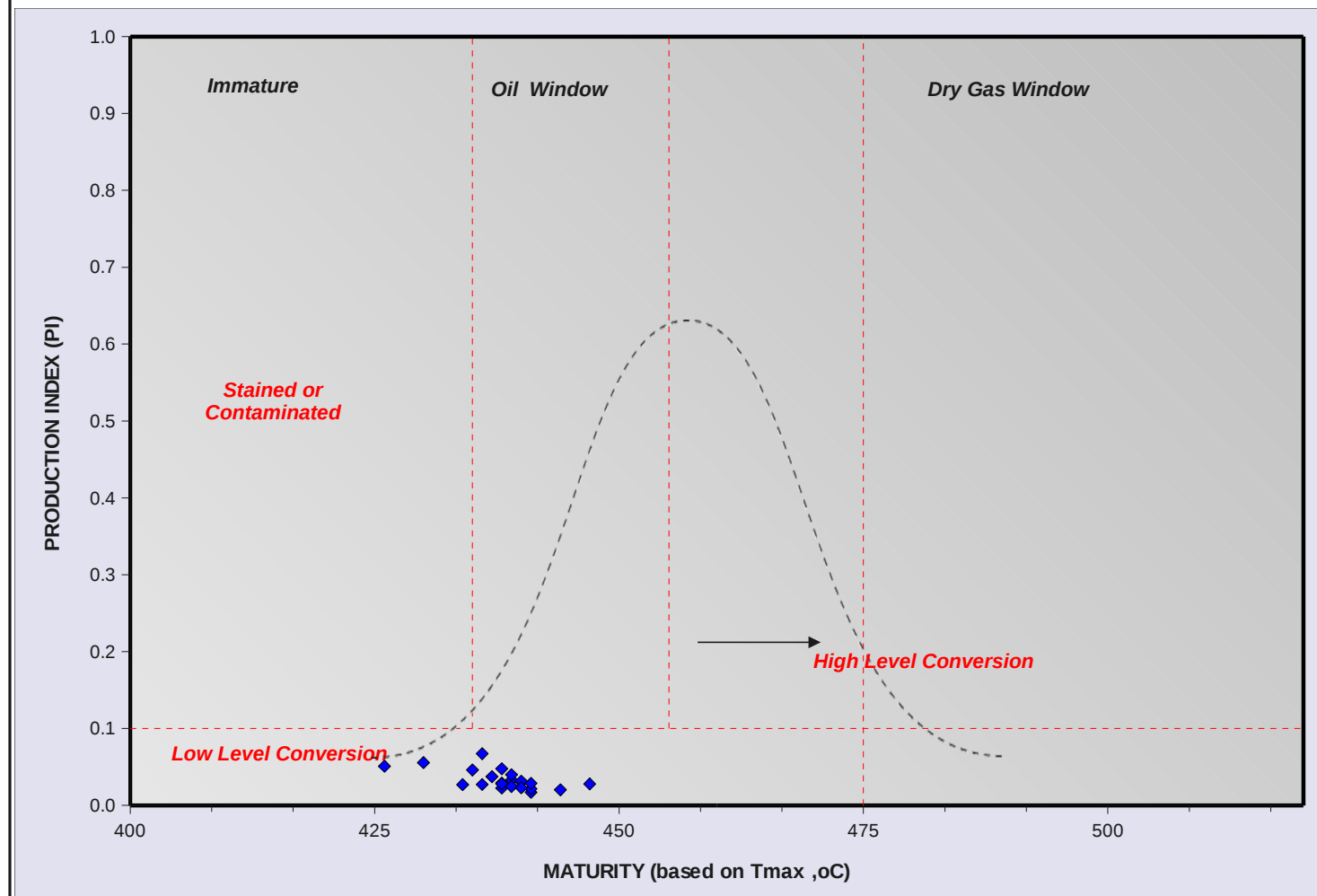


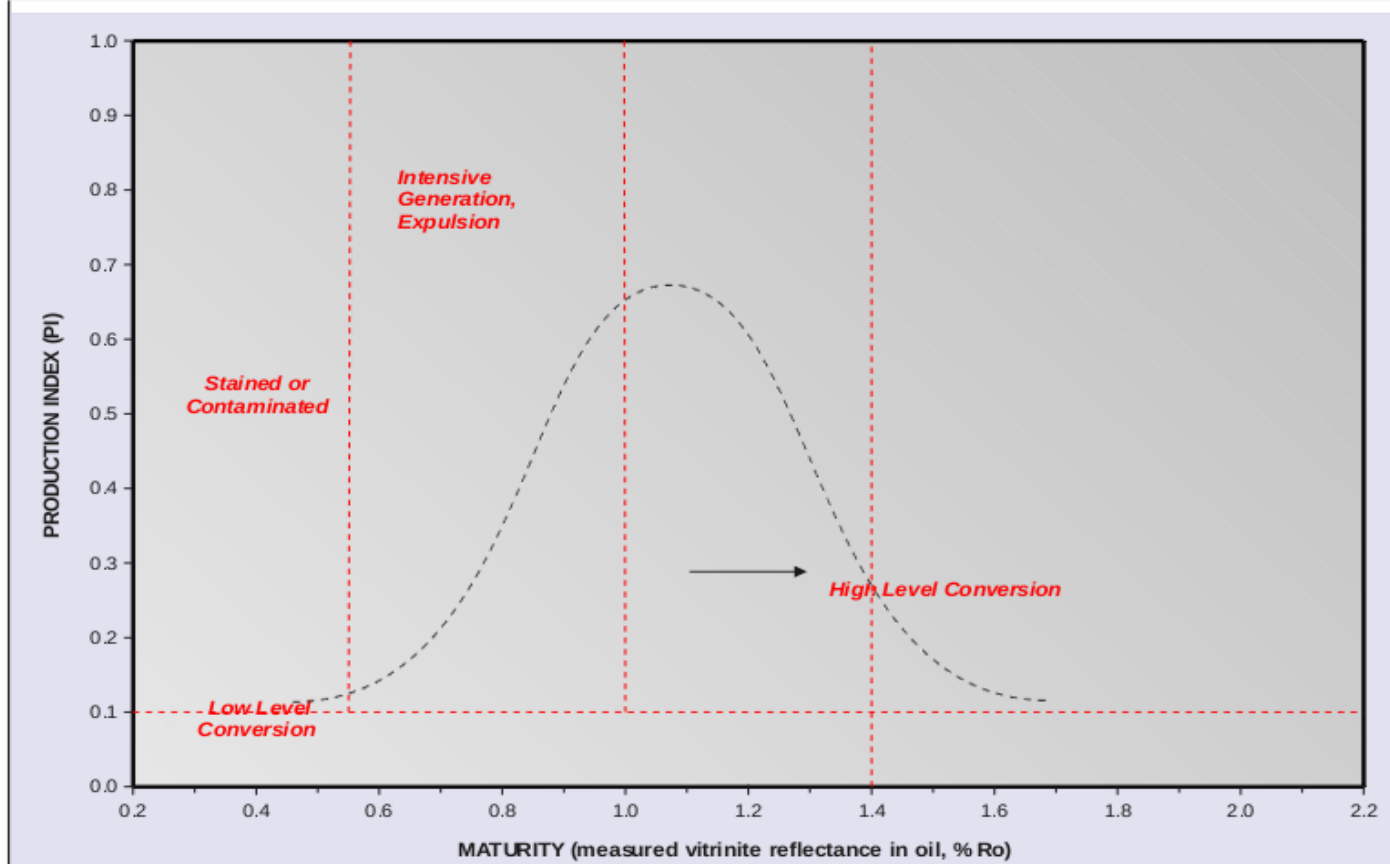
KEROGEN TYPE AND MATURITY (%Ro) - WERNER HATCH NO. 1

Company: DEER LAKE OIL & GAS INC.

Project# : NF-46499 / 10-288-A







ATTACHMENT # 8
Mud Gas Log

	100	Total Gas Sensor ppm	1000000
08:00 Mar15			-9999.0
			-9999.0
			-9999.0
09:00 Mar15			-9999.0
			-9999.0
			-9999.0
10:00 Mar15			-9999.0
			-9999.0
			-9999.0
11:00 Mar15			-9999.0
			-9999.0
			-9999.0
12:00 Mar15			-9999.0
			-9999.0
			-9999.0
13:00 Mar15			-9999.0
			-9999.0
			-9999.0
14:00 Mar15			-9999.0
			-9999.0
			-9999.0
15:00 Mar15			-9999.0
			-9999.0
			-9999.0
16:00 Mar15			-9999.0
			-9999.0
			-9999.0
17:00 Mar15			-9999.0
			-9999.0
			-9999.0
18:00 Mar15			-999.2
			12300.0
			12000.0
19:00 Mar15			1700.0
			1700.0
101.0 19:49 Started Drilling @ 101.0			1500.0
20:00 Mar15			1500.0
			1700.0
			1500.0
21:00 Mar15			1300.0
			2500.0
			2200.0
22:00 Mar15			2000.0
			2100.0
			2700.0
23:00 Mar15			5000.0
23:20	102.85		11600.0
			8500.0
00:00 Mar16			5200.0
			11800.0
00:45	105.85		9200.0
01:00 Mar16			5600.0
01:21	108.85		10900.0
			8500.0
02:00 Mar16			16500.0
02:09	111.85		25800.0
			19900.0
02:55	114.85		17300.0
03:00 Mar16			13300.0
3:30	Downtime (washing out hole)		16800.0
3:58	114.85		12300.0
04:00 Mar16			24100.0
4:23	117.85		41100.0
4:35	117.85		38300.0
05:00 Mar16			46200.0
5:26	120.85		43200.0
5:36	120.85		46500.0
06:00 Mar16			65400.0
6:38	123.85		59100.0
07:00 Mar16			51300.0

				PPM
7:54	08:00 Mar16	123.85		44200.0
				44300.0
8:39		126.85		57300.0
8:50	09:00 Mar16	126.85		51000.0
				51500.0
9:34		129.85		56000.0
9:44	10:00 Mar16	129.85		54100.0
				49700.0
10:30		132.85		48700.0
				41100.0
11:00	11:00 Mar16	132.85		37000.0
				38300.0
11:40		135.85		39700.0
11:50	12:00 Mar16	135.85		34400.0
				39600.0
12:50		138.85		45800.0
	13:00 Mar16			48400.0
13:20		138.85		48600.0
				49200.0
14:09	14:00 Mar16	141.85		56500.0
		Wash out hole		52000.0
15:12	15:00 Mar16			46700.0
				49100.0
16:01	16:00 Mar16	141.85		65500.0
				58800.0
16:29		144.85		65000.0
16:45	17:00 Mar16	144.85		85300.0
				77400.0
17:31		147.85		59000.0
17:48	18:00 Mar16	147.85		78600.0
				68500.0
18:33		150.85		57800.0
	19:00 Mar16			75400.0
		Circulate & Pump off Solids		66200.0
19:59	20:00 Mar16	150.85		55200.0
				74000.0
21:00	21:00 Mar16	153.85		5200.0
21:18		15 .85		2300.0
	22:00 Mar16			2200.0
				1800.0
22:20		156.85		1500.0
	23:00 Mar16			1300.0
23:30		156.85		45300.0
	00:00 Mar17			11700.0
0:20		159.85		2600.0
0:34	01:00 Mar17	159.85		2300.0
				7300.0
1:30		162.85		3500.0
1:50	02:00 Mar17	162.85		4000.0
				4400.0
2:35		165.85		41400.0
2:51	03:00 Mar17		Began circulating	60400.0
				6300.0
3:50	04:00 Mar17	165.85	Began Drilling	3200.0
				70000.0
4:55	05:00 Mar17	168.85		48400.0
5:07		168.85		68200.0
	06:00 Mar17			67500.0
6:07		171.85		62400.0
6:18		171.85		78700.0
	07:00 Mar17			74600.0
				74100.0
				89000.0
				53800.0
				88300.0
				70400.0
				80900.0
				77400.0
				80800.0
				74100.0
				77600.0
7:35		174.85		

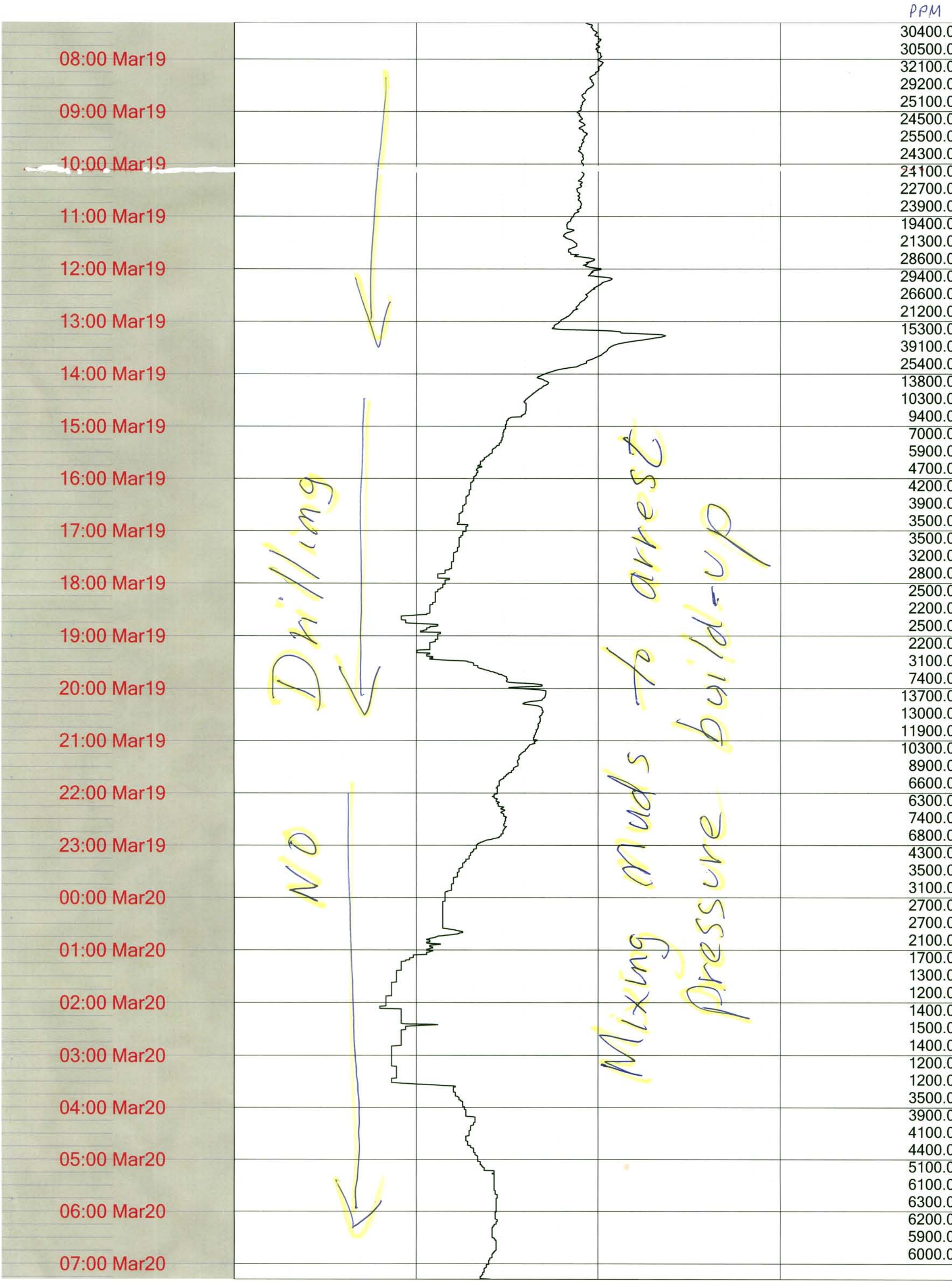
PPM

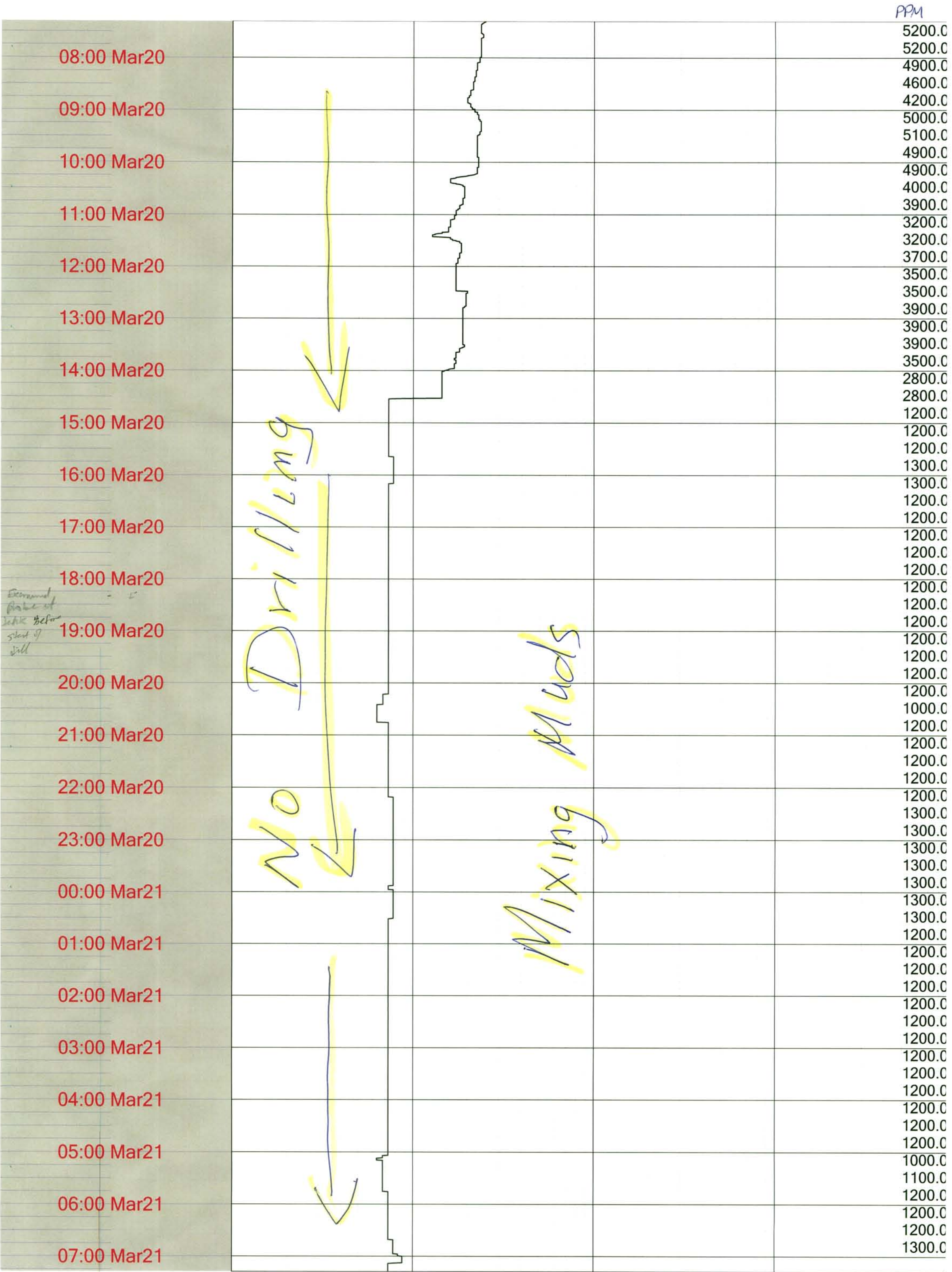
7:35	174.85			69200.C
7:47	174.85			60900.C
08:00 Mar17				70700.C
				68800.C
8:46	177.85			63600.C
9:07	177.85			61000.C
				74300.C
				66600.C
10:11	180.85			67800.C
10:23	180.85			60900.C
				67800.C
11:00 Mar17				61100.C
				61400.C
11:54	183.85			63000.C
12:12	183.85			53300.C
				66900.C
				72300.C
13:00 Mar17				71200.C
				68000.C
13:37	186.85			57300.C
13:45	186.85			65000.C
14:00 Mar17				50400.C
14:34				33900.C
14:49	?			52700.C
15:00 Mar17	?	Drilling		43400.C
15:17	?			43200.C
15:46	?			55700.C
16:00 Mar17		Drilling		40300.C
16:18	192.85			44900.C
16:35	192.85			48200.C
17:00 Mar17				45700.C
17:37	195.85			35400.C
18:00 Mar17	Blew fuse in drill (replaced)			35700.C
18:13	195.85			60500.C
18:48	198.85			59700.C
19:04	198.85			53100.C
				50900.C
19:52	201.85			47100.C
20:05	201.85			39100.C
				46700.C
				41500.C
20:57	204.85			32900.C
21:10	204.85			46900.C
				49200.C
22:11	207.85			44400.C
22:33	?	Began Circulating		39100.C
22:53	?	Stop circulating		40700.C
22:57				45000.C
23:00 Mar17		change filter in generator		33700.C
23:26	209.85			40100.C
23:59	210.85			35300.C
0:15	210.85			41700.C
				36600.C
01:00 Mar18				40000.C
1:31	213.85			42400.C
1:47	213.85			42100.C
02:00 Mar18				45400.C
2:15	214.85			40100.C
2:47	?	Circulate + change filter		27300.C
03:00 Mar18	?	Circulate		41400.C
3:19	?			40900.C
3:44	?			40500.C
3:55	216.85			32000.C
4:10	216.85			46900.C
				44800.C
05:00 Mar18				36100.C
5:19	219.85			28700.C
5:30	219.85			40100.C
06:00 Mar18				41800.C
				45500.C
6:34	222.85			35000.C
6:51	222.85			
07:00 Mar18				

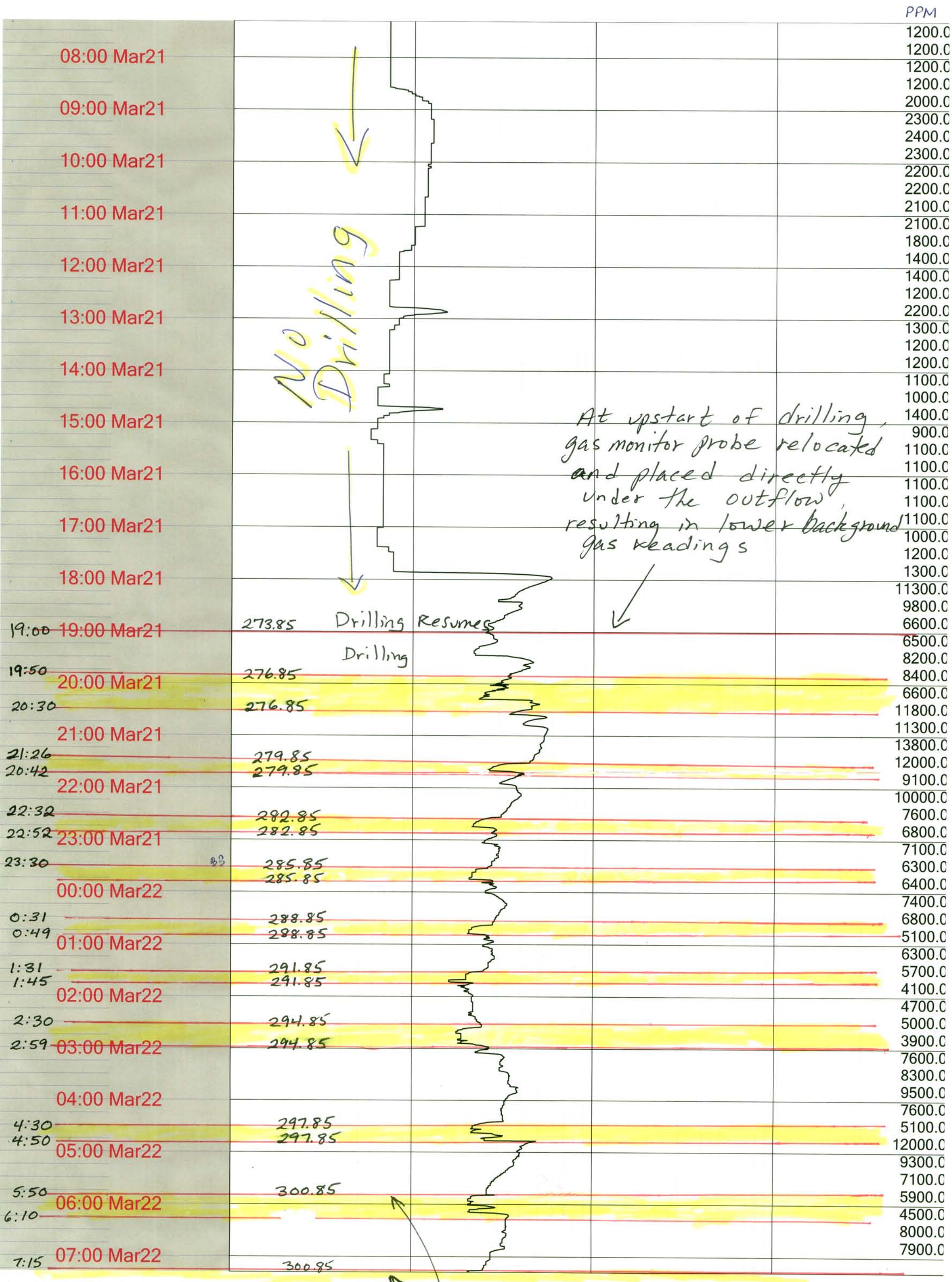
PPM

				39700.0
				39100.0
08:00 Mar18				36600.0
8:30	225.85	Drilling		38100.0
09:00 Mar18		Drilling		32000.0
				93300.0
				80700.0
10:00 Mar18				74100.0
10:12	228.85			76100.0
10:27	228.85			64400.0
11:00 Mar18				85200.0
				71700.0
11:37	231.85			67000.0
11:49	231.85			52200.0
12:00 Mar18				69200.0
12:37	234.85			65100.0
12:50	234.85			46400.0
13:00 Mar18				56100.0
13:30	237.85			60400.0
13:50	237.85			51000.0
14:00 Mar18				63900.0
14:30	240.85			54700.0
14:50				43700.0
15:00 Mar18		Washing out hole		57000.0
		Start drilling		54900.0
15:53				46500.0
16:00 Mar18				46300.0
16:30	243.85			54200.0
16:48	243.85			47200.0
17:00 Mar18				61600.0
				57500.0
17:55	246.85			51500.0
18:11	246.85			39700.0
18:00 Mar18				66700.0
				64800.0
19:08	249.85			61900.0
19:30	249.85			41100.0
20:00 Mar18				71200.0
				76500.0
20:33	252.85			68800.0
20:48	252.85			48500.0
21:00 Mar18				69200.0
				64500.0
21:50	255.85			60100.0
22:15	255.85			48600.0
22:00 Mar18				74000.0
				66300.0
23:00 Mar18				60600.0
23:25	258.85			59300.0
23:40	258.85			58500.0
00:00 Mar19				57300.0
				53700.0
0:40	261.85			43800.0
1:10	261.85			46900.0
01:00 Mar19				57600.0
				50800.0
1:58	264.85			36700.0
2:12	264.85			56900.0
2:50	267.85			49500.0
3:07				34800.0
3:25		start run to circulate		55500.0
4:00	267.85			47100.0
04:00 Mar19				53200.0
				56000.0
5:00	270.85			57000.0
5:20	270.85			43200.0
05:00 Mar19				88000.0
				73100.0
6:15	273.85			66700.0
06:00 Mar19				33500.0
07:00 Mar19		Drilling Stopped due to excess pressure build up		29000.0

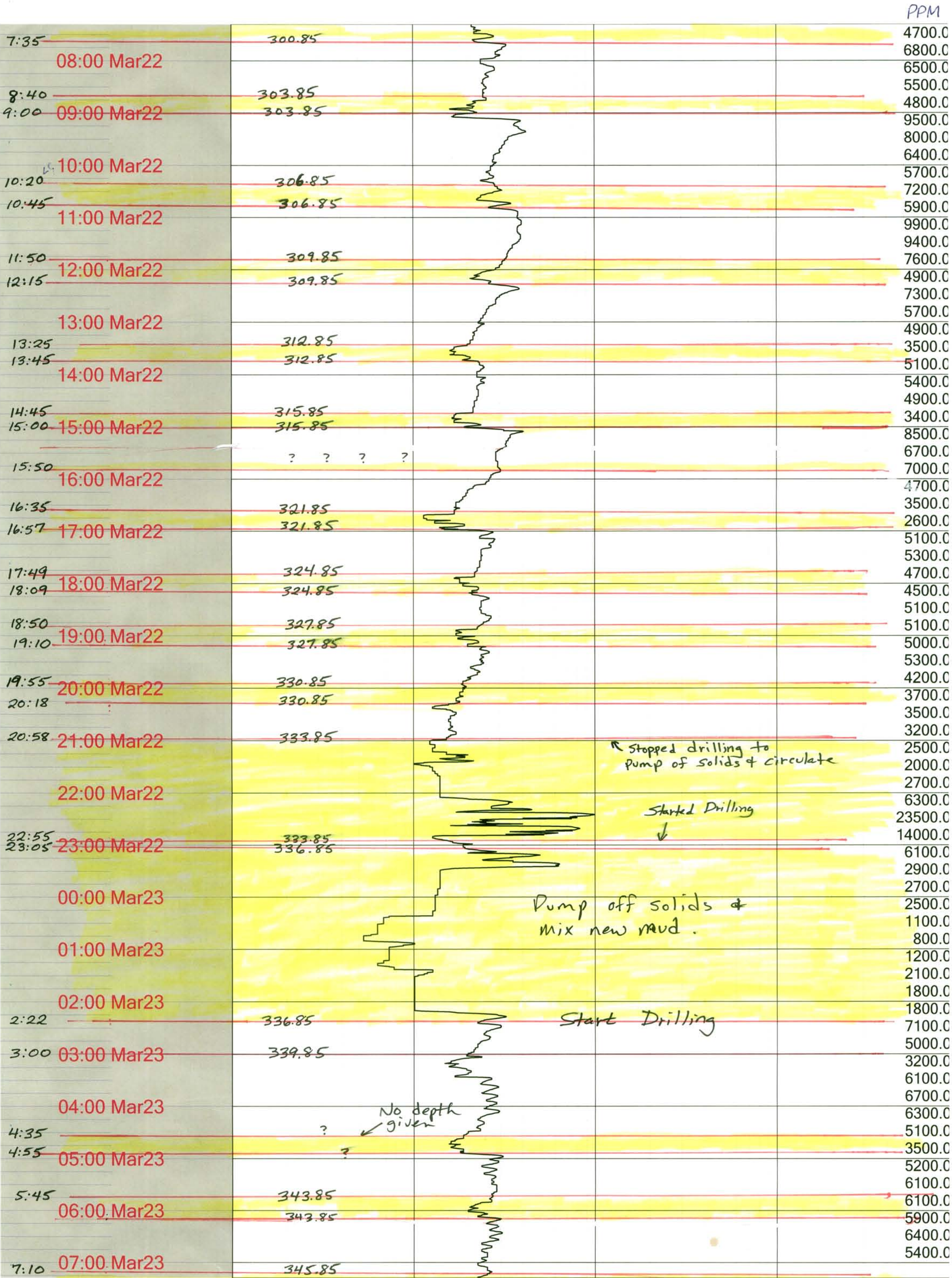
1800 10 30
22:30

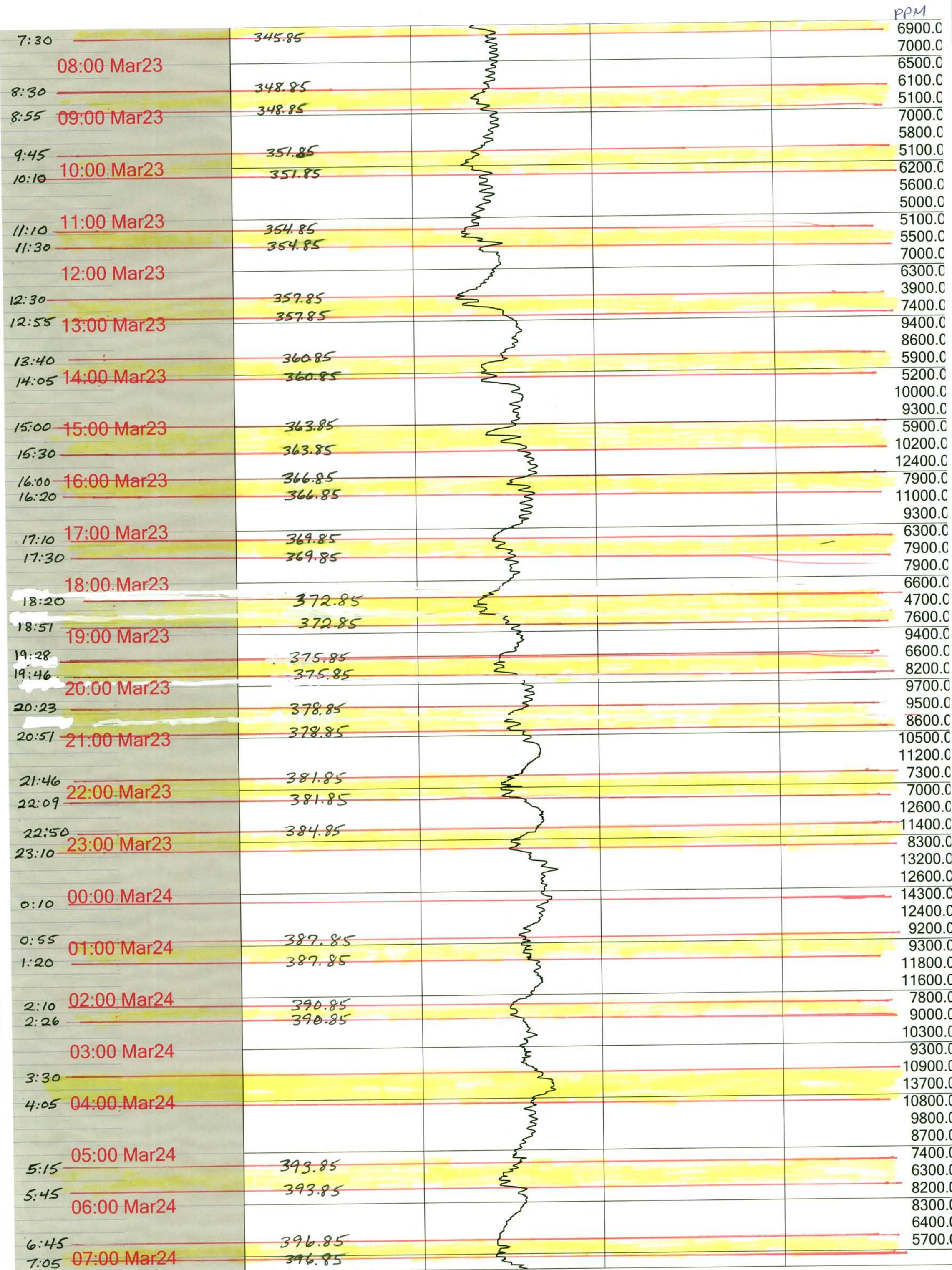


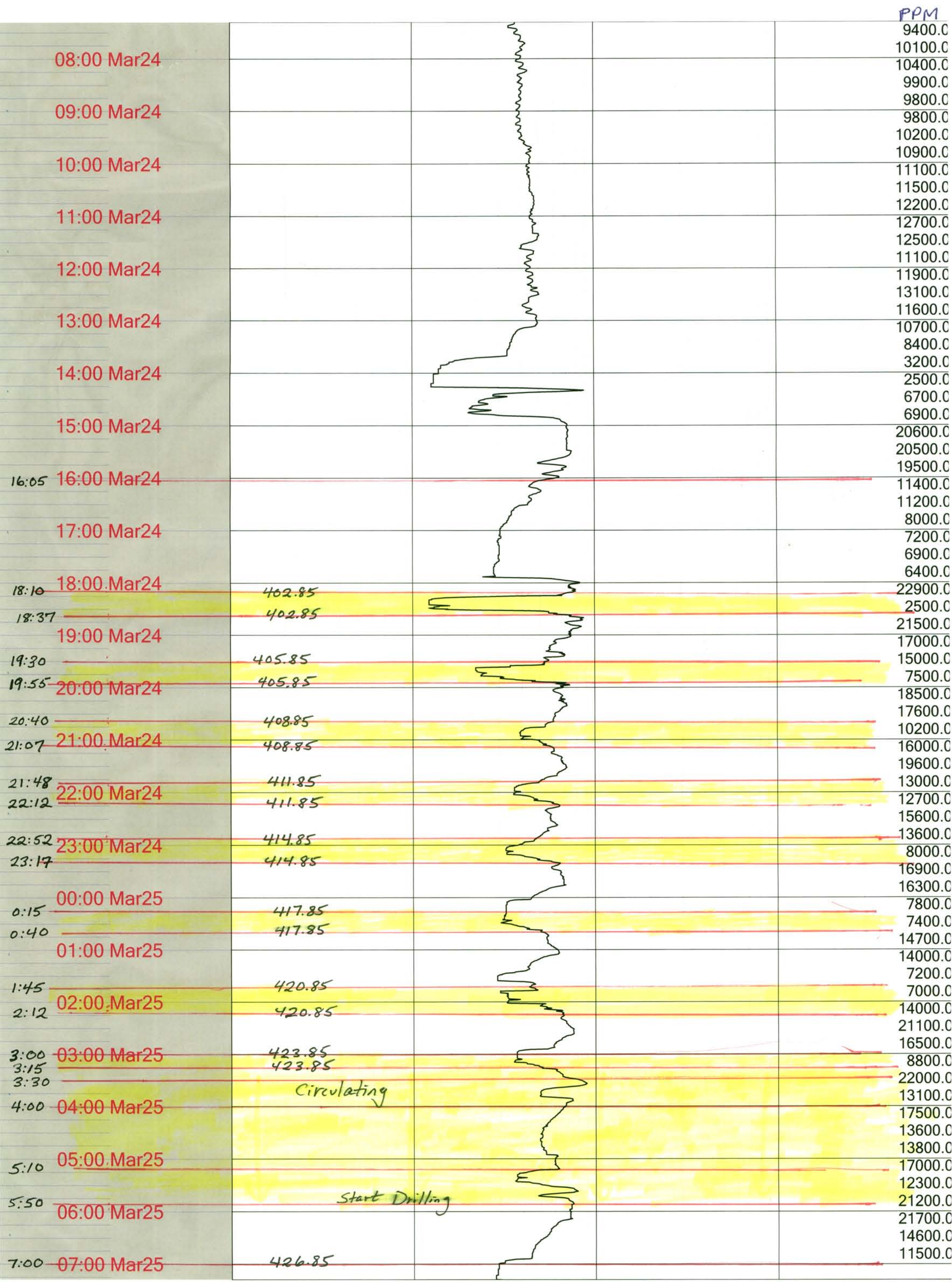




Same depth (300.85) reported for two consecutive drilling runs ???







08:00 Mar24

09:00 Mar24

10:00 Mar24

11:00 Mar24

12:00 Mar24

13:00 Mar24

14:00 Mar24

15:00 Mar24

16:05 16:00 Mar24

17:00 Mar24

18:10 18:00 Mar24

18:37 18:00 Mar24

19:00 Mar24

19:30 19:00 Mar24

19:55 20:00 Mar24

20:40 20:00 Mar24

21:07 21:00 Mar24

21:48 22:00 Mar24

22:12 22:00 Mar24

22:52 23:00 Mar24

23:17 23:00 Mar24

0:15 00:00 Mar25

0:40 00:00 Mar25

01:00 Mar25

1:45 02:00 Mar25

2:12 02:00 Mar25

3:00 03:00 Mar25

3:15 03:00 Mar25

3:30 03:00 Mar25

4:00 04:00 Mar25

5:10 05:00 Mar25

5:50 06:00 Mar25

7:00 07:00 Mar25

402.85

402.85

405.85

405.85

408.85

408.85

411.85

411.85

414.85

414.85

417.85

417.85

420.85

420.85

423.85

423.85

Circulating

Start Drilling

426.85

PPM

9400.0
10100.0
10400.0
9900.0
9800.0
10200.0
10900.0
11100.0
11500.0
12200.0
12700.0
12500.0
11100.0
11900.0
13100.0
11600.0
10700.0
8400.0
3200.0
2500.0
6700.0
6900.0
20600.0
20500.0
19500.0
11400.0
11200.0
8000.0
7200.0
6900.0
6400.0
22900.0
2500.0
21500.0
17000.0
15000.0
7500.0
18500.0
17600.0
10200.0
16000.0
19600.0
13000.0
12700.0
15600.0
13600.0
8000.0
16900.0
16300.0
7800.0
7400.0
14700.0
14000.0
7200.0
7000.0
14000.0
21100.0
16500.0
8800.0
22000.0
13100.0
17500.0
13600.0
13800.0
17000.0
12300.0
21200.0
21700.0
14600.0
11500.0

08:00 Mar25				PPM
				11300.0
				15800.0

09:00 Mar25	
10:00 Mar25	
11:00 Mar25	
12:00 Mar25	
13:00 Mar25	
14:00 Mar25	
15:00 Mar25	
16:00 Mar25	
17:00 Mar25	
17:15	444.85
18:00 Mar25	

444.85 (TD)
 reached at 17:15, Mar 25, 2010

ATTACHMENT # 9
Weatherford Headspace Gas Analysis



HEADSPACE GAS COMPOSITION (ppm)

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1							Project : NF-46499 / 10-288-A							
-------------------------------	--	--	--	--	--	--	-------------------------------	--	--	--	--	--	--	--

Lab ID	Client ID	Sample Type	Top Depth (m)	Bottom Depth (m)	Median Depth (m)	Methane (C ₁)	Ethane (C ₂)	Propane (C ₃)	Iso-Butane (i-C ₄)	Butane (n-C ₄)	Iso-Pentane (i-C ₅)	Pentane (n-C ₅)	Hexanes+ (C ₆ +)	Carbon Dioxide (CO ₂)	Notes
DL000084		Can Ctg	25	30	28	854	3	1	0	0	2	2	9	n/d	
DL000085		Can Ctg	35	40	38	316	1	n/d	n/d	n/d	n/d	n/d	1	n/d	
DL000086		Can Ctg	45	50	48	12471	57	1	17	20	24	19	31	n/d	
DL000087		Can Ctg	55	60	58	15176	1019	346	149	248	78	78	68	n/d	
DL000088		Can Ctg	65	70	68	25826	2185	455	248	313	133	115	131	n/d	
DL000089		Can Ctg	75	80	78	34296	1149	14	26	17	65	33	145	n/d	
DL000090		Can Ctg	80	85	83	49818	1144	25	247	157	180	110	188	n/d	
DL000091		Can Ctg	85	90	88	34351	4421	789	250	350	96	76	68	n/d	
DL000092		Can Ctg	90	95	93	14692	501	98	99	126	73	56	85	n/d	

Notes:

n/d – not detected, detection limit for CO₂ is 50ppm
C = sample analysis checked and confirmed

NORMALIZED HEADSPACE GAS COMPOSITION (in vol. %)

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1					Project :NF-46499 / 10-288-A				
Median Depth (m)	Total HC Gas (ppm)	Methane (C ₁)	Ethane (C ₂)	Propane (C ₃)	Iso-Butane (i-C ₄)	Butane (n-C ₄)	Iso-Pentane (i-C ₅)	Pentane (n-C ₅)	Hexanes+ (C ₆ +)
28	871	98.1%	0.3%	0.1%	0.0%	0.0%	0.2%	0.2%	1.0%
38	318	99.3%	0.4%	n/d	n/d	n/d	n/d	n/d	0.3%
48	12638	98.7%	0.4%	0.0%	0.1%	0.2%	0.2%	0.1%	0.2%
58	17163	88.4%	5.9%	2.0%	0.9%	1.4%	0.5%	0.5%	0.4%
68	29406	87.8%	7.4%	1.5%	0.8%	1.1%	0.5%	0.4%	0.4%
78	35744	95.9%	3.2%	0.0%	0.1%	0.0%	0.2%	0.1%	0.4%
83	51869	96.0%	2.2%	0.0%	0.5%	0.3%	0.3%	0.2%	0.4%
88	40401	85.0%	10.9%	2.0%	0.6%	0.9%	0.2%	0.2%	0.2%
93	15729	93.4%	3.2%	0.6%	0.6%	0.8%	0.5%	0.4%	0.5%

HEADSPACE GAS COMPOSITION RATIOS

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1				Project : NF-46499 / 10-288-A			
Median Depth (m)	SUM of $C_2, C_3, i-C_4, n-C_4$	$C_1 / C_2 + C_3$	$i-C_4 / n-C_4$	$C_1 / C_1 - C_4$	GWR $C_2...C_5 / C_1...C_5 \times 100$	LHR $C_1 + C_2 / C_3 + C_4 + C_5$	OCQ $C_4 + C_5 / C_3$
28	0.5	256.6	1.0	1.0	0.9	175.2	7.9
38	0.4	260.7	n/d	1.0	0.4	n/d	n/d
48	0.7	215.9	0.9	1.0	1.1	156.7	63.1
58	10.3	11.1	0.6	0.9	11.2	18.0	1.6
68	10.9	9.8	0.8	0.9	11.8	22.2	1.8
78	3.4	29.5	1.6	1.0	3.7	229.7	10.1
83	3.0	42.6	1.6	1.0	3.6	70.9	28.1
88	14.4	6.6	0.7	0.9	14.8	24.8	1.0
93	5.2	24.5	0.8	0.9	6.1	33.8	3.6

Notes:

GWR = gas wetness index
LHR = light-to-heavy ratio
OCQ = oil character qualifier

< 0.5 dry gas; 0.5-17.5 gas; 17.5-40 oil; > 40 residual oil
LHR > 100 - dry gas; < 100 condensate/oil
< 0.5 gas potential; > 0.5 gas/light oil potential

NORMALIZED C₂, C₃ and C₄ HEADSPACE GAS COMPOSITION (in vol. %)
DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1	Project : NF-46499 / 10-288-A
--------------------------------------	--------------------------------------

Median Depth (m)	SUM of C ₂ , C ₃ and C ₄	Norm. C ₂	Norm. C ₃	Norm. C ₄	C ₃ / (C ₂ +C ₃)
28	4	74.8%	14.8%	10.3%	0.2
38	1	100.0%	n/d	n/d	n/d
48	77	73.1%	1.6%	25.3%	0.0
58	1614	63.2%	21.5%	15.4%	0.3
68	2954	74.0%	15.4%	10.6%	0.2
78	1179	97.4%	1.2%	1.4%	0.0
83	1325	86.3%	1.9%	11.8%	0.0
88	5561	79.5%	14.2%	6.3%	0.2
93	724	69.2%	13.5%	17.4%	0.2

Notes:

Normalized C2-C4 data focuses on non-methane composition as it is most readily lost during transit in the well bore or from cans



HEADSPACE GAS COMPOSITION (ppm)

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1										Project : NF-46499 / 10-288-A					
Lab ID	Client ID	Sample Type	Top Depth (m)	Bottom Depth (m)	Median Depth (m)	Methane (C ₁)	Ethane (C ₂)	Propane (C ₃)	Iso-Butane (i-C ₄)	Butane (n-C ₄)	Iso-Pentane (i-C ₅)	Pentane (n-C ₅)	Hexanes+ (C ₆ +)	Carbon Dioxide (CO ₂)	Notes
DL000084		Can Ctg	25	30	28	854	3	1	0	0	2	2	9	-2	
DL000085		Can Ctg	35	40	38	316	1	-2	-2	-2	-2	-2	1	-2	
DL000086		Can Ctg	45	50	48	12471	57	1	17	20	24	19	31	-2	
DL000087		Can Ctg	55	60	58	15176	1019	346	149	248	78	78	68	-2	
DL000088		Can Ctg	65	70	68	25826	2185	455	248	313	133	115	131	-2	
DL000089		Can Ctg	75	80	78	34296	1149	14	26	17	65	33	145	-2	
DL000090		Can Ctg	80	85	83	49818	1144	25	247	157	180	110	188	-2	
DL000091		Can Ctg	85	90	88	34351	4421	789	250	350	96	76	68	-2	
DL000092		Can Ctg	90	95	93	14692	501	98	99	126	73	56	85	-2	

Notes:

n/d - not detected, detection limit for CO₂ is 50ppm

NORMALIZED HEADSPACE GAS COMPOSITION (in vol. %)

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1					Project :NF-46499 / 10-288-A				
Median Depth (m)	Total HC Gas (ppm)	Methane (C ₁)	Ethane (C ₂)	Propane (C ₃)	Iso-Butane (i-C ₄)	Butane (n-C ₄)	Iso-Pentane (i-C ₅)	Pentane (n-C ₅)	Hexanes+ (C ₆ +)
28	871	98.1%	0.3%	0.1%	0.0%	0.0%	0.2%	0.2%	1.0%
38	308	102.5%	0.4%	-200.0%	-200.0%	-200.0%	-200.0%	-200.0%	0.3%
48	12638	98.7%	0.4%	0.0%	0.1%	0.2%	0.2%	0.1%	0.2%
58	17163	88.4%	5.9%	2.0%	0.9%	1.4%	0.5%	0.5%	0.4%
68	29406	87.8%	7.4%	1.5%	0.8%	1.1%	0.5%	0.4%	0.4%
78	35744	95.9%	3.2%	0.0%	0.1%	0.0%	0.2%	0.1%	0.4%
83	51869	96.0%	2.2%	0.0%	0.5%	0.3%	0.3%	0.2%	0.4%
88	40401	85.0%	10.9%	2.0%	0.6%	0.9%	0.2%	0.2%	0.2%
93	15729	93.4%	3.2%	0.6%	0.6%	0.8%	0.5%	0.4%	0.5%

HEADSPACE GAS COMPOSITION RATIOS

DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1				Project : NF-46499 / 10-288-A			
Median Depth (m)	SUM of $C_2, C_3, i-C_4, n-C_4$	$C_1 / C_2 + C_3$	$i-C_4 / n-C_4$	$C_1 / C_1 - C_4$	GWR $C_2...C_5 / C_1...C_5 \times 100$	LHR $C_1+C_2 / C_3+C_4+C_5$	OCQ C_4+C_5 / C_3
28	0.5	256.6	1.0	1.0	0.9	175.2	7.9
38	-599.6	-401.0	-2.0	1.0	-2.9	-31.7	-2.0
48	0.7	215.9	0.9	1.0	1.1	156.7	63.1
58	10.3	11.1	0.6	0.9	11.2	18.0	1.6
68	10.9	9.8	0.8	0.9	11.8	22.2	1.8
78	3.4	29.5	1.6	1.0	3.7	229.7	10.1
83	3.0	42.6	1.6	1.0	3.6	70.9	28.1
88	14.4	6.6	0.7	0.9	14.8	24.8	1.0
93	5.2	24.5	0.8	0.9	6.1	33.8	3.6

Notes
 GWR = gas wetness index < 0.5 dry gas; 0.5-17.5 gas; 17.5-40 oil; > 40 residual oil
 LHR = liquid to heavy ratio < 100 gas; 100-200 oil; > 200 residual oil
 OCQ = oil to condensate ratio < 10 gas; 10-20 oil; > 20 residual oil

NORMALIZED C₂, C₃ and C₄ HEADSPACE GAS COMPOSITION (in vol. %)
DEER LAKE OIL & GAS INC.

Well Name : Werner - Hatch #1	Project : NF-46499 / 10-288-A
--------------------------------------	--------------------------------------

Median Depth (m)	SUM of C ₂ , C ₃ and C ₄	Norm. C ₂	Norm. C ₃	Norm. C ₄	C ₃ / (C ₂ +C ₃)
28	4	74.8%	14.8%	10.3%	0.2
38	-3	-43.5%	-200.0%	-200.0%	-2.0
48	77	73.1%	1.6%	25.3%	0.0
58	1614	63.2%	21.5%	15.4%	0.3
68	2954	74.0%	15.4%	10.6%	0.2
78	1179	97.4%	1.2%	1.4%	0.0
83	1325	86.3%	1.9%	11.8%	0.0
88	5561	79.5%	14.2%	6.3%	0.2
93	724	69.2%	13.5%	17.4%	0.2

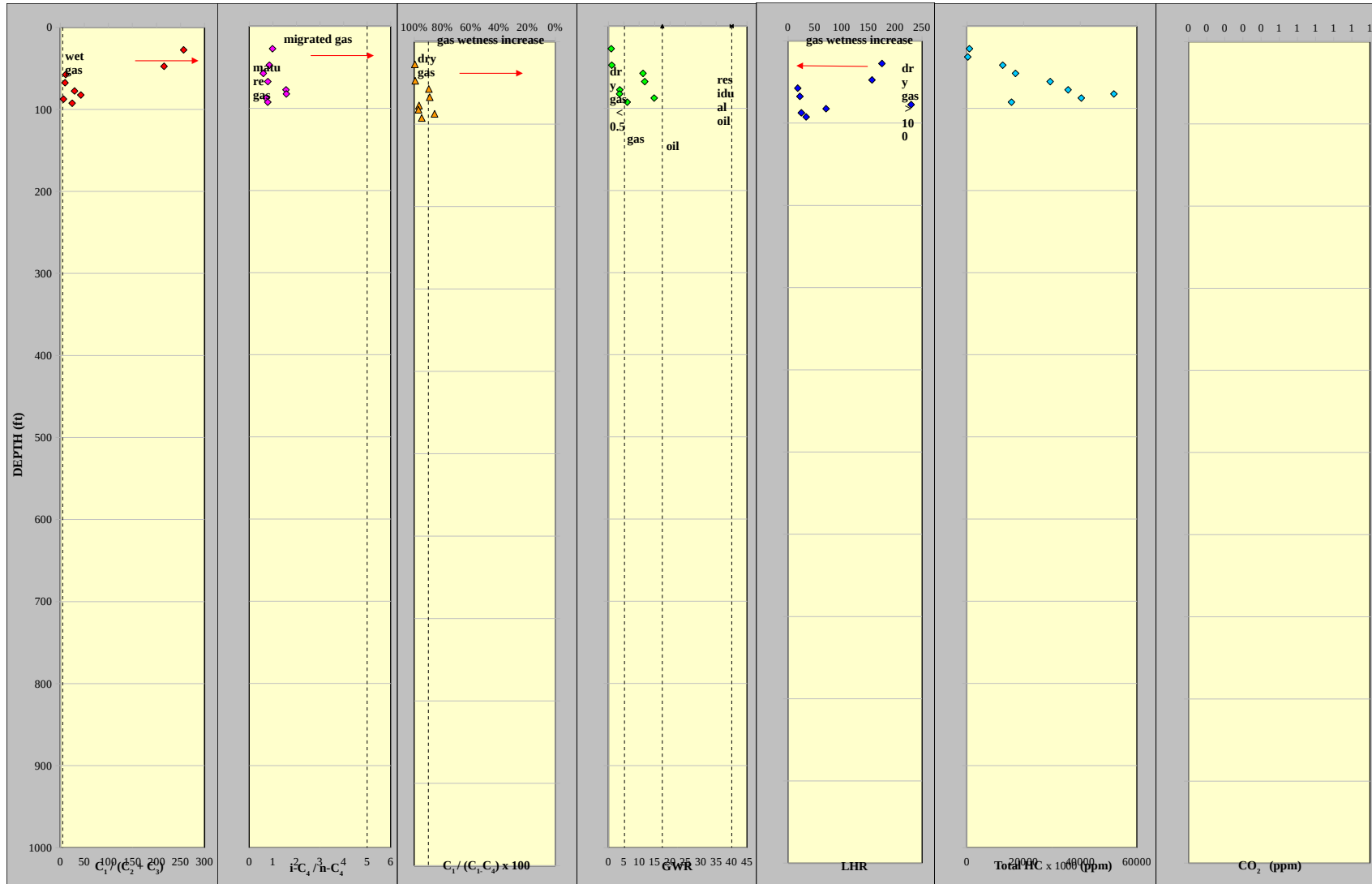
Notes:
Normalized C2-C4 data focuses on non-methane composition

GEOCHEMICAL LOGS

Company : DEER LAKE OIL & GAS INC.

Well Name: Werner - Hatch #1

Project : NF-46499 / 10-288-A

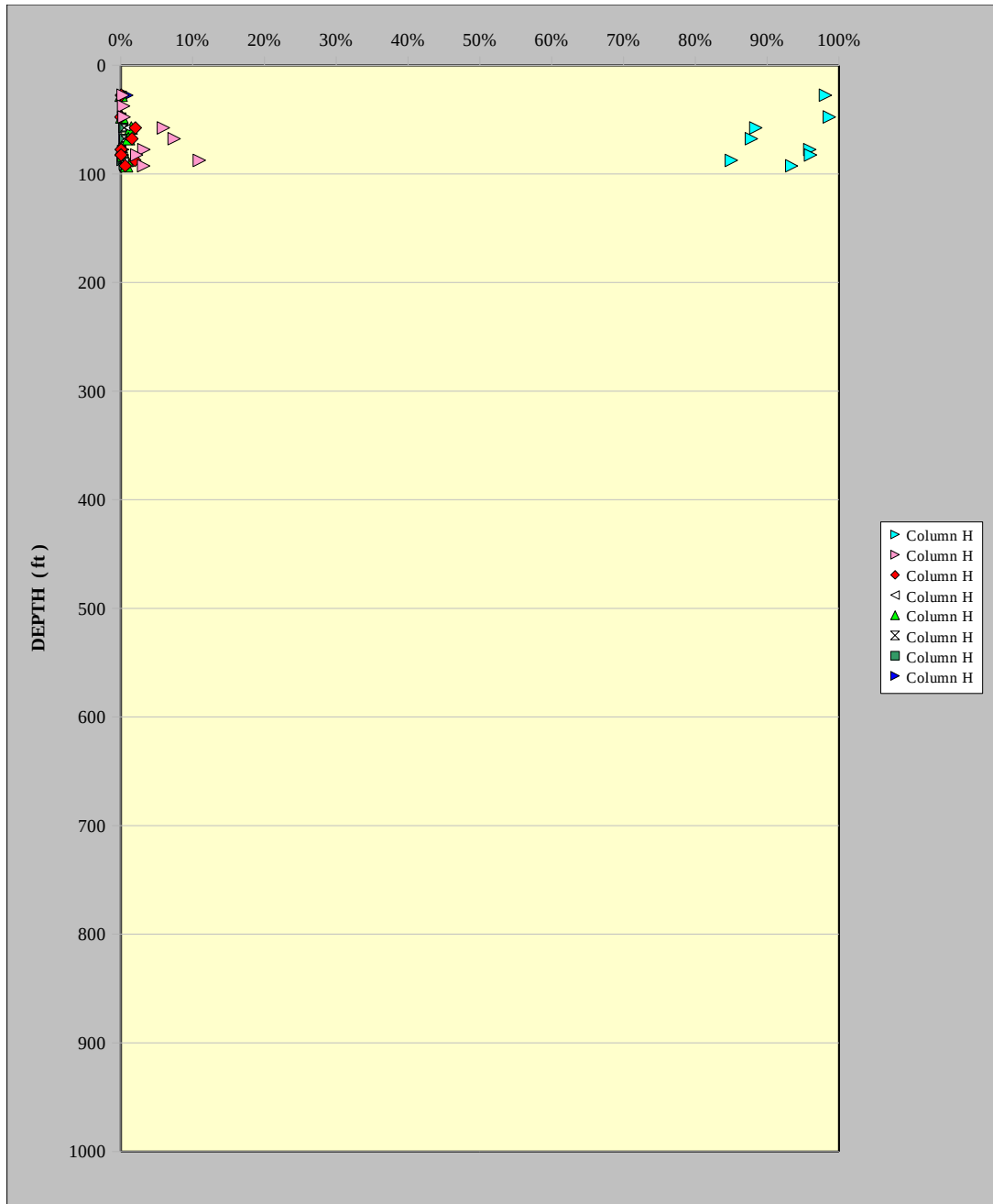


HYDROCARBON GAS COMPOSITION (in vol. %)

DEER LAKE OIL & GAS INC.

Well Name :
Werner - Hatch #1

Project # :
NF-46499 / 10-288-A

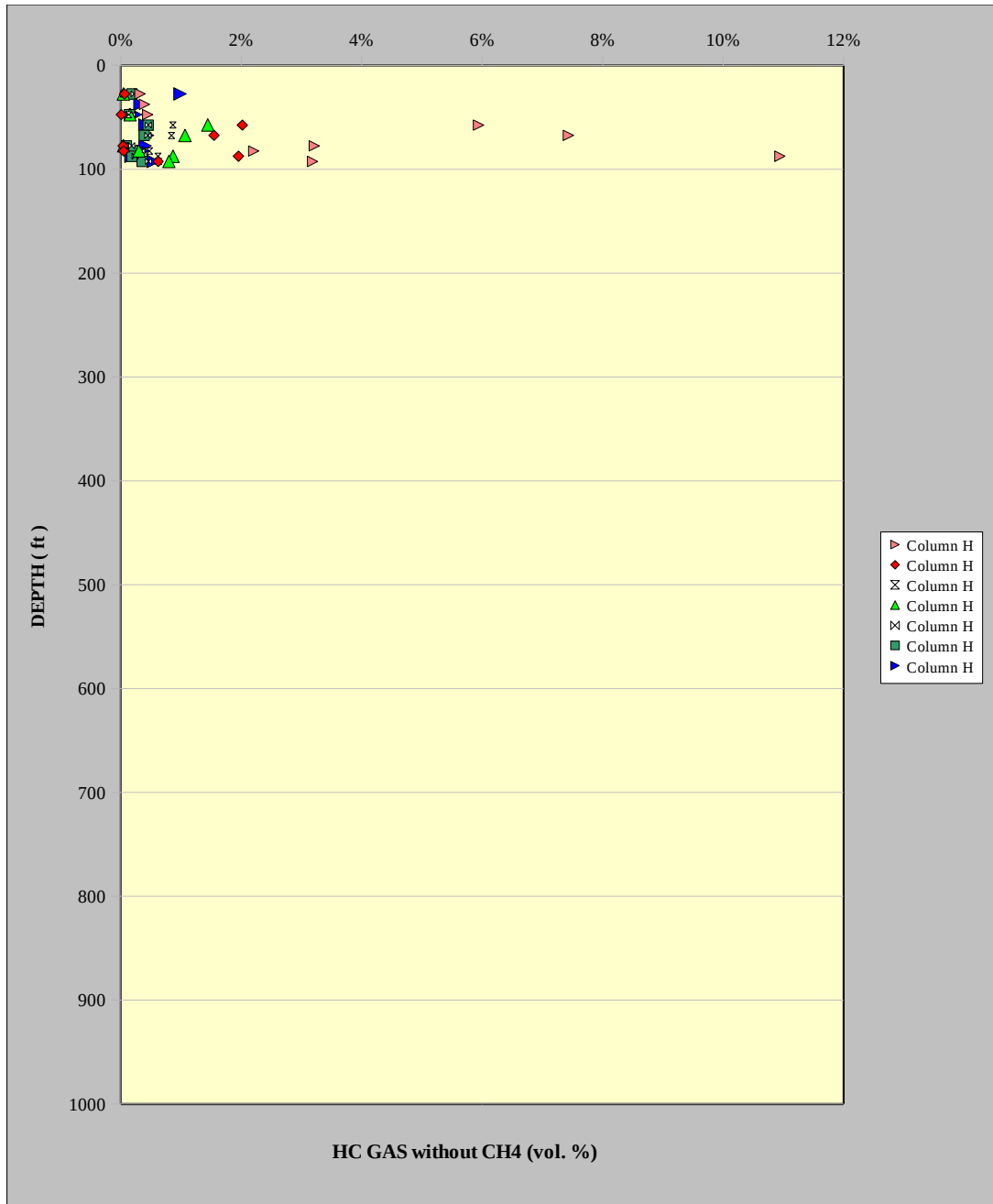


HYDROCARBON GAS COMPOSITION without methane (in vol. %)

DEER LAKE OIL & GAS INC.

Well Name :
Werner - Hatch #1

Project # :
NF-46499 / 10-288-A



ATTACHMENT # 10
Log - Borehole Compensated Sonic

Schlumberger	
Company:	Deer Lake Oil and Gas, Inc.
Well:	Werner Hatch 1
Field:	Deer Lake Basin
Rig:	Logan Hydro 44
	Province: Newfoundland

Deer Lake Oil and Gas, Inc.

Werner Hatch 1

Deer Lake Basin

Province: **Newfoundland**

MULTI-EXPRESS			
SONIC LOG			
LOCATION			
UTM Coordinates		Elev.:	K.B. 46.70 m
Easting: 474768E			G.L. 43.50 m
Northing: 54574498N			D.F. 46.70 m
Permanent Datum:	Ground Level	Elev.:	43.50 m
Log Measured From:	Kelly Bushing	3.20 m	above Perm. Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Latitude 49.22 N	Longitude 57.34 W	

Company: Deer Lake Oil and Gas, Inc.

LOCATION			
UTM Coordinates		Elev.:	K.B. 46.70 m
Easting: 474768E			G.L. 43.50 m
Northing: 54574498N			D.F. 46.70 m
Permanent Datum:	Ground Level	Elev.:	43.50 m
Log Measured From:	Kelly Bushing	3.20 m	above Perm. Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Latitude 49.22 N	Longitude 57.34 W	

[illegible]

Logging Date	30-Mar-2010				
Run Number	Run 1				
Depth Driller	444.8 m				
Schlumberger Depth	445.8 m				
Bottom Log Interval	442 m				
Top Log Interval	104.5 m				
Casing Driller Size @ Depth	114,300 mm		@	101 m	@
Casing Schlumberger	104.5 m				
Bit Size	96,000 mm				
Type Fluid In Hole	WBM				
Density	Viscosity	1170 kg/m3	40 s		
Fluid Loss	PH				
Source Of Sample	Mud Pit				
RM @ Measured Temperature	0.400 ohm.m			@	10 degC
RMF @ Measured Temperature	0.320 ohm.m			@	10 degC
RMC @ Measured Temperature	0.480 ohm.m			@	10 degC
Source RMF	RMC	Calculated	Calculated		
RM @ MRT	RMF @ MRT	0.205 @ 40	0.164	@ 40	@
Maximum Recorded Temperatures	40 degC				
Circulation Stopped	Time	29-Mar-2010		22:30	
Logger On Bottom	Time	30-Mar-2000		3:20	
Unit Number	Location	6061	St.John's		
Recorded By	L. Conway				
Witnessed By	W. Jacobs				

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth		@			
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density	Viscosity				
Fluid Loss	PH				
Source Of Sample					
RM @ Measured Temperature		@			
RMF @ Measured Temperature		@			
RMC @ Measured Temperature		@			
Source RMF	RMC				
RM @ MRT	RMF @ MRT	@		@	
Maximum Recorded Temperatures					
Circulation Stopped	Time				
Logger On Bottom	Time				
Unit Number	Location				
Recorded By					
Witnessed By					

DEPTH SUMMARY LISTING

Depth System Equipment

Depth Control Parameters

Depth Control Remarks

- ## DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Radioactivity horizons confirmed with wellsite geologist

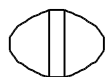
Radiactivity horizons confirmed with wellsite geologist	

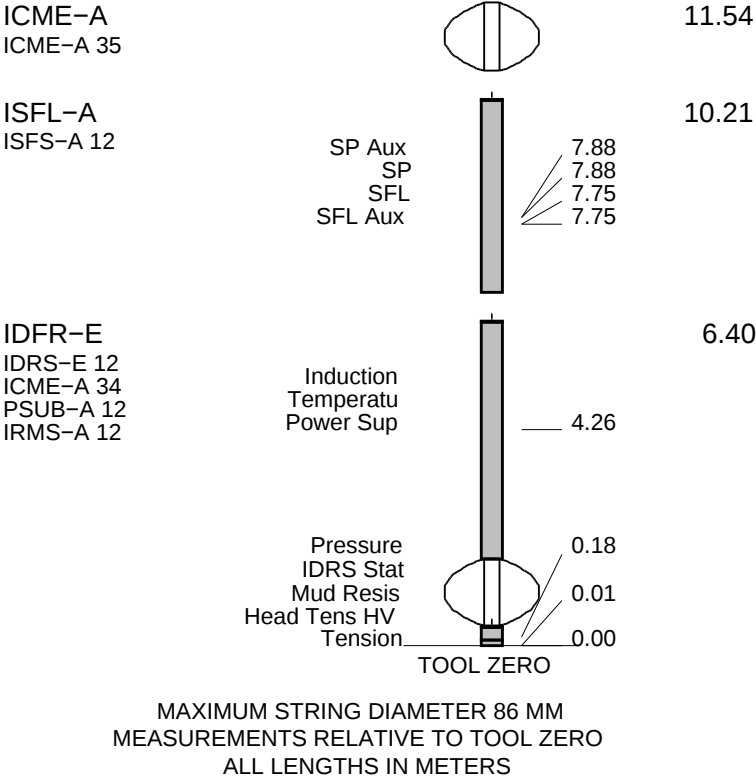
RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
AP8D-00212 17C0-154 0 m					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT			
WITM-A PSC_16MHZ			
DOWNHOLE EQUIPMENT			
LEH-QT LEH-QT			28.33
AH-307			27.44
ILE-I ILE-I			27.17
		Detail MT	
		TelStatus	
ITGN-B		PSTC CTEM	24.97
PSC-ATS 9	GR	24.49	24.97
PSTC-A	CCL	24.03	
ITNH-B 9	Far	22.47	
ITNS-B 9	Near Epi	22.32	
NNLS-B	Status		
	Head Temp	21.85	
AH-306			21.85
ILD-T-B	ICEC Stat	20.70	21.36
ICEC-B 25	PEFL	19.14	
IMCS-A 25	Caliper	19.03	
GGLS-C 2434	LS	19.00	
IPDP-A 25	PEFS	18.90	
	SS	18.88	
	IMCS Stat	18.24	
AH-306			18.24
AH-306			17.76
ICME-A ICME-A			17.28
ISLT-B ISLS-B ISLC-B ISLH-B			15.94
	RX_ARRAY	14.32	



Schlumberger

Main Pass
1:600

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Integrated Hole/Cement Volume Summary

Hole Volume = 2.50 M3
Cement Volume = 2.50 M3 (assuming 0.00 MM casing O.D.)
Computed from 445.8 M to 101.0 M using data channel(s) CALI

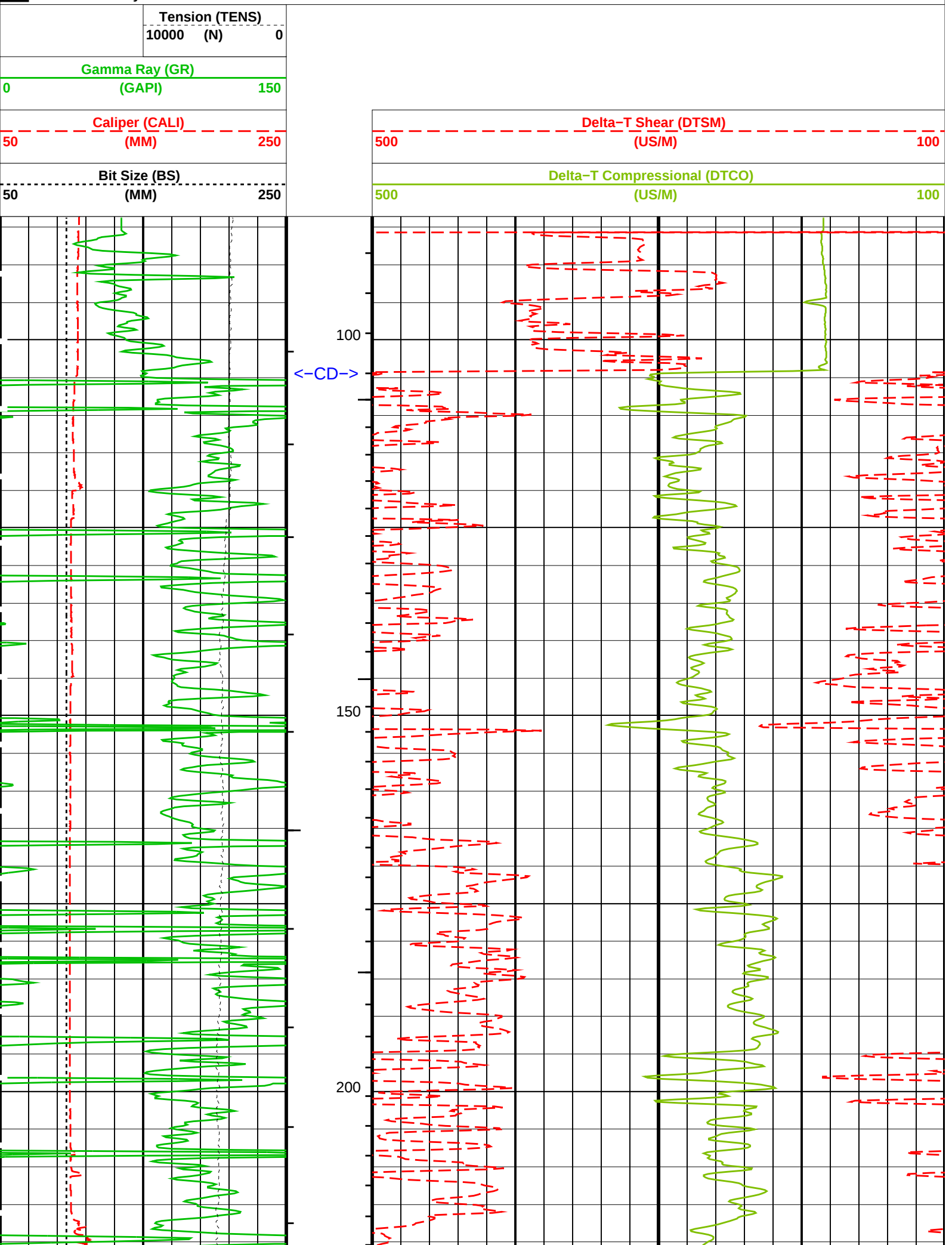
OP System Version: 17C0-154

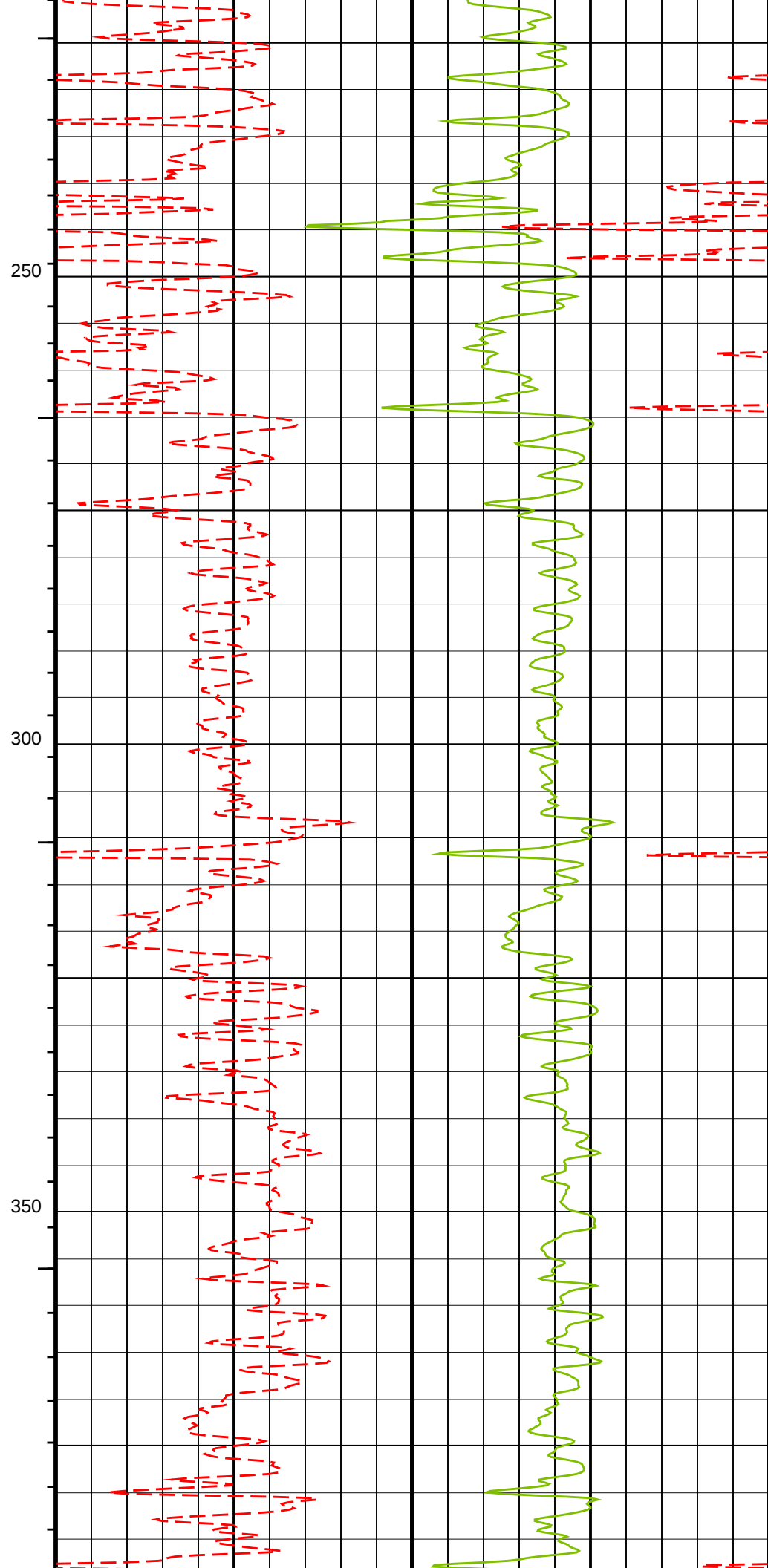
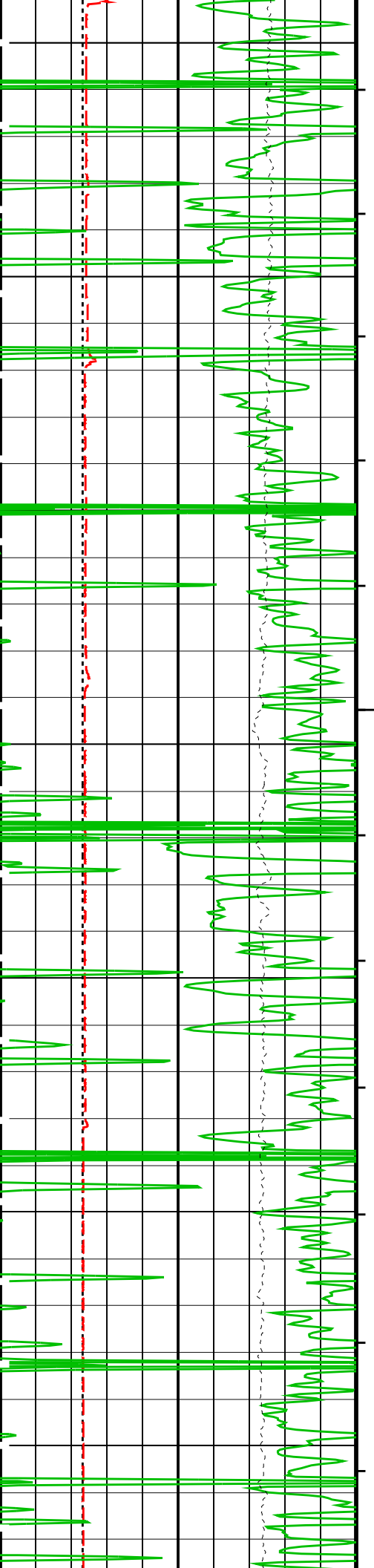
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

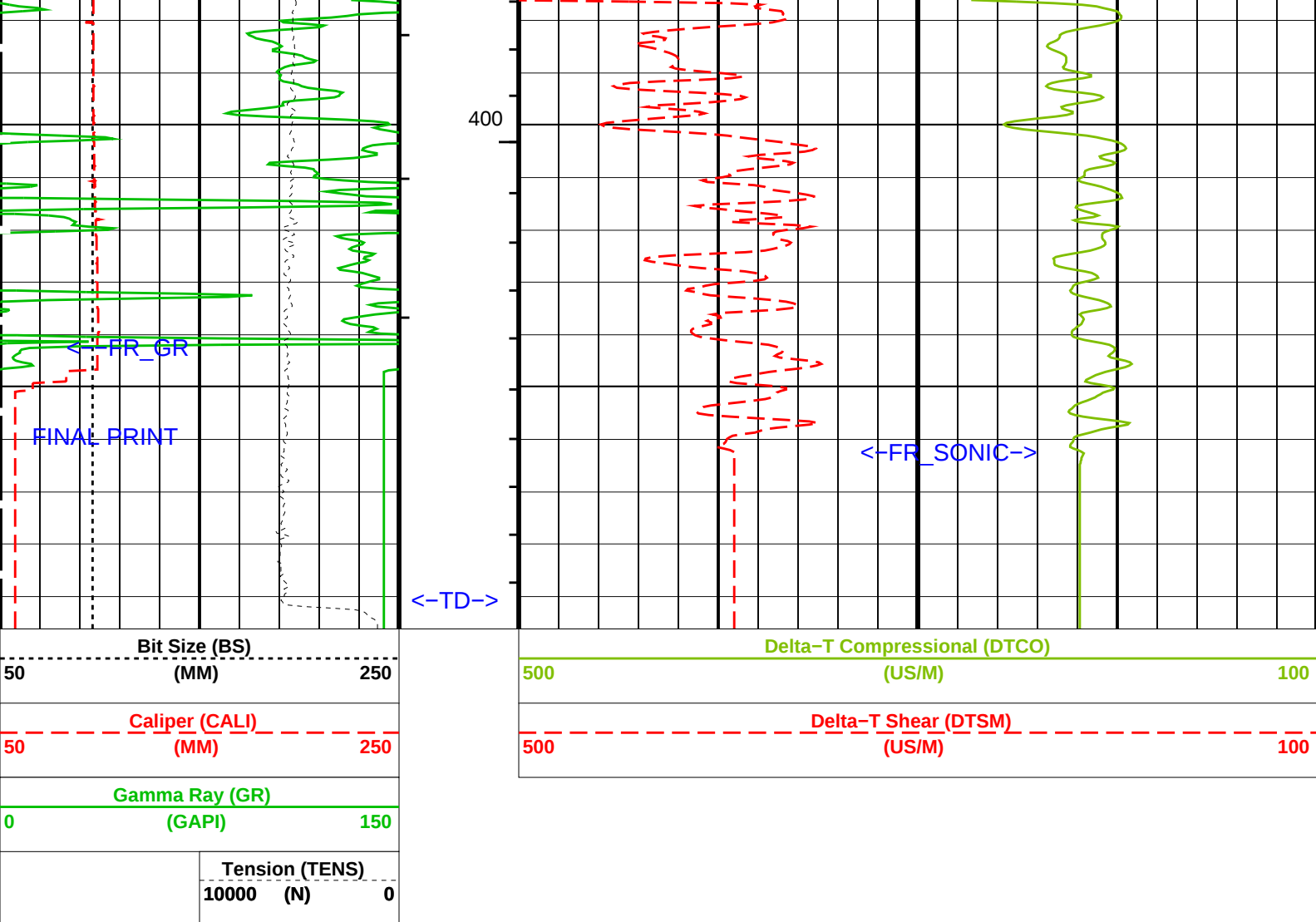
PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S







PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
ISLT-B: iFlex Sonic Logging Tool		
DFT_IFLEX	Drilling Fluid Type	WATER
DTCS	Compressional Delta-T Source	DT
DTSS	Shear Delta-T Source	DTS_RA_UTx
GCSE	Generalized Caliper Selection	CALI
ITTS	Integrated Transit Time Source	DT
ILDT-B: iFlex Litho Density Tool		
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
PVN_ICEC	ICEC Computation Version	1.000
ITGN-B: iFlex Telemetry Gamma Neutron Tool		
BARI_ITGN	Barite Mud Presence Flag	YES
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
NICO	Neutron Interference Correction Option	YES
PVN_ITGN	ITGN Computation Version	1.005
SDAT	Standoff Data Source	SOCN
SOCN	Standoff Distance	0 IN
TBHDS	Tool Borehole Diameter Source	CALI
TBHTS	Tool Borehole Temperature Source	GTSE
HOLEV: Integrated Hole/Cement Volume		
FCD	Future Casing (Outer) Diameter	0 MM
GCSE	Generalized Caliper Selection	CALI
HVCS	Integrated Hole Volume Caliper Selection	CALI

INVO	System and Miscellaneous	Integrated Hole Volume Calculator Selection	CALC
BS	Bit Size	96.000	MM
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.2	M
PP	Playback Processing	NORMAL	
TD	Total Depth	445.8	M

Format: SONIC-500-S2-CAN	Vertical Scale: 1:600	Graphics File Created: 31-Mar-2010 13:38
--------------------------	-----------------------	--

OP System Version: 17C0-154			
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files						
DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
Output DLIS Files						
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		



Main Pass

1:240

MAXIS Field Log

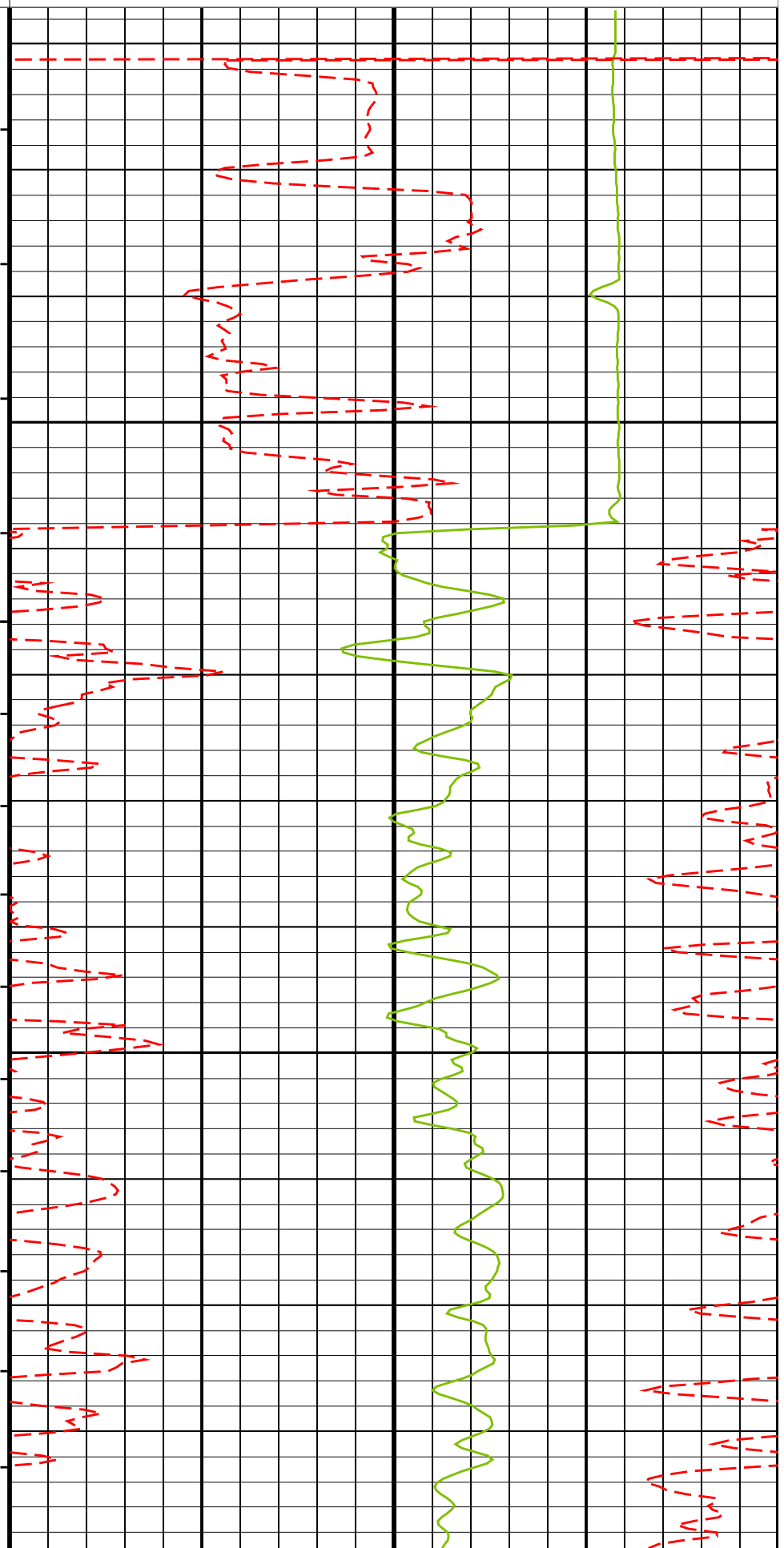
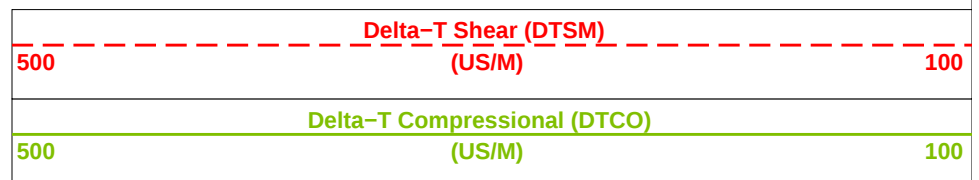
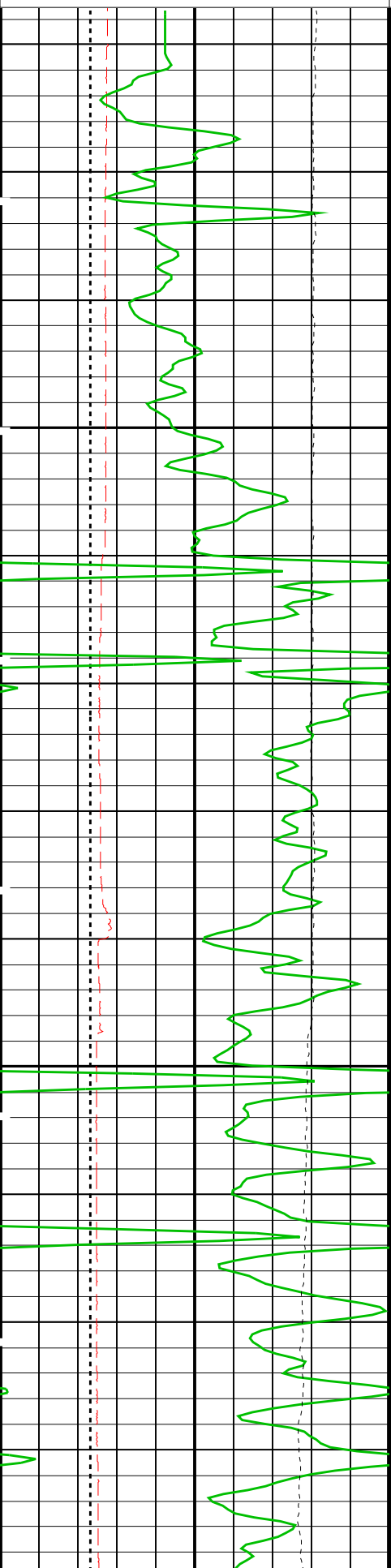
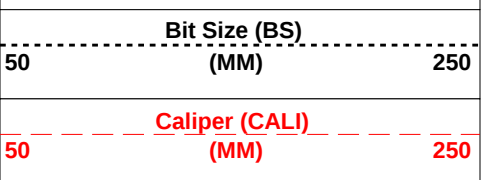
Input DLIS Files						
DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
Output DLIS Files						
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Integrated Hole/Cement Volume Summary	
Hole Volume = 2.50 M3	
Cement Volume = 2.50 M3 (assuming 0.00 MM casing O.D.)	
Computed from 445.8 M to 101.0 M using data channel(s) CALI	

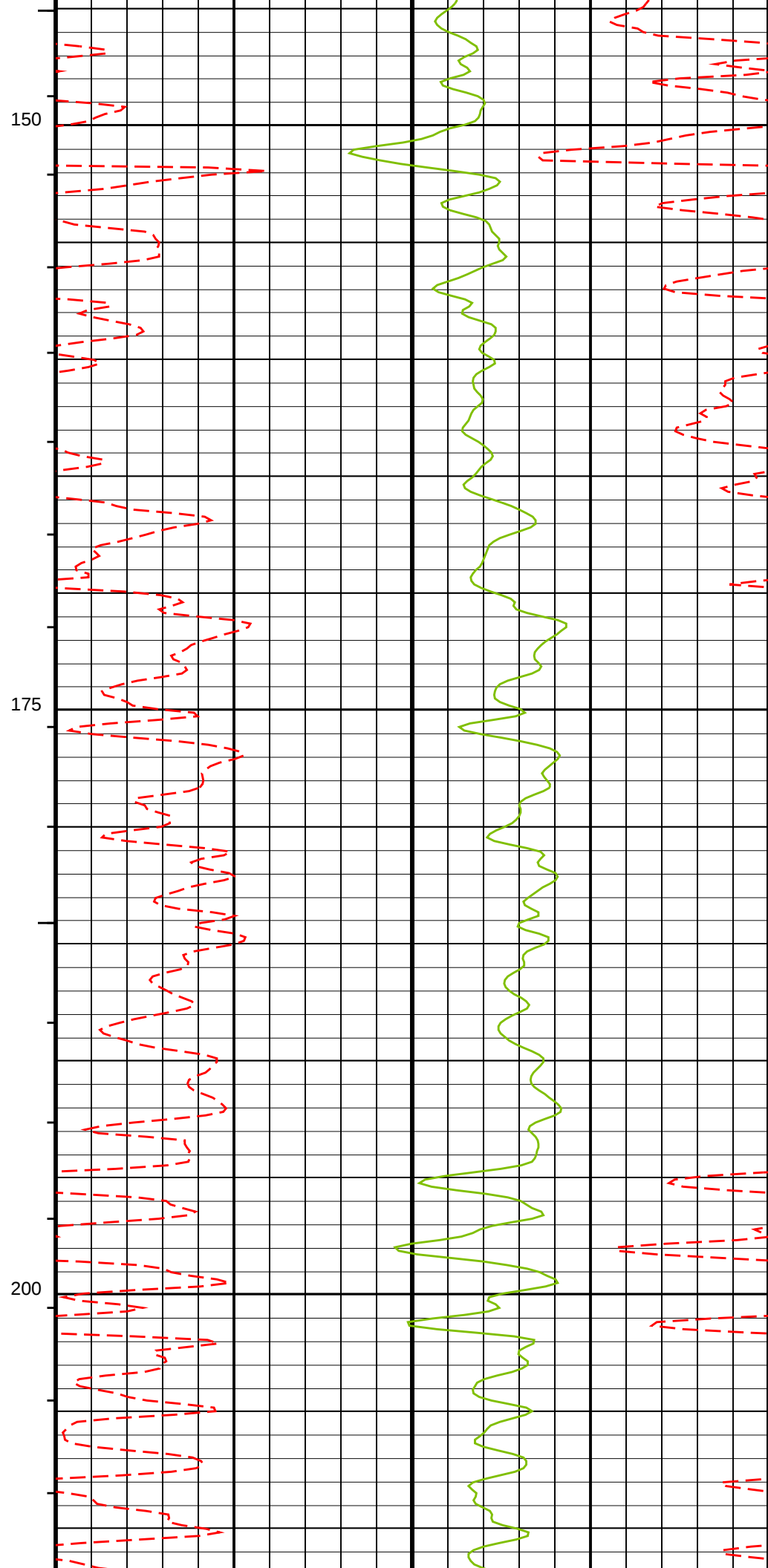
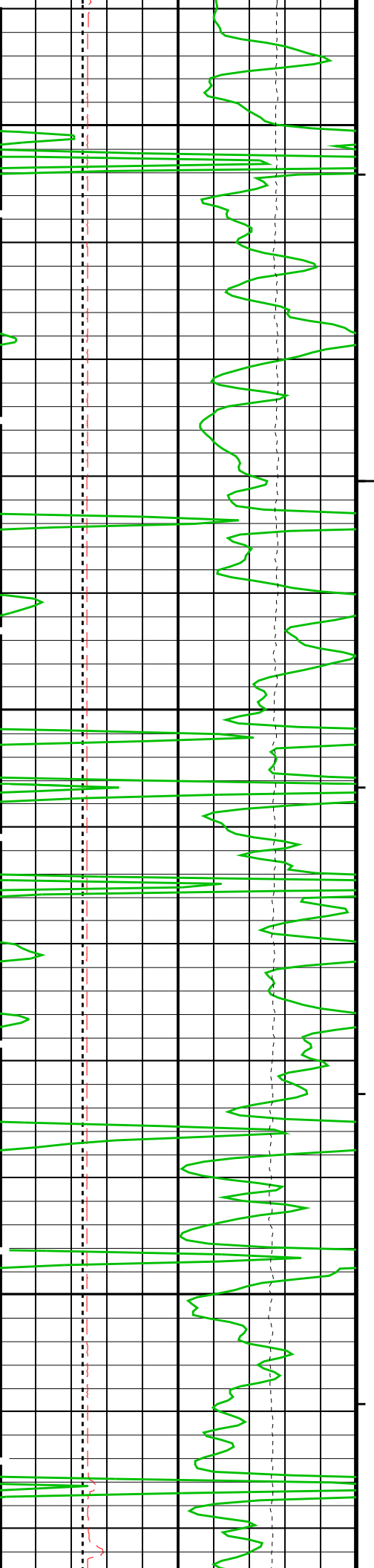
OP System Version: 17C0-154			
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

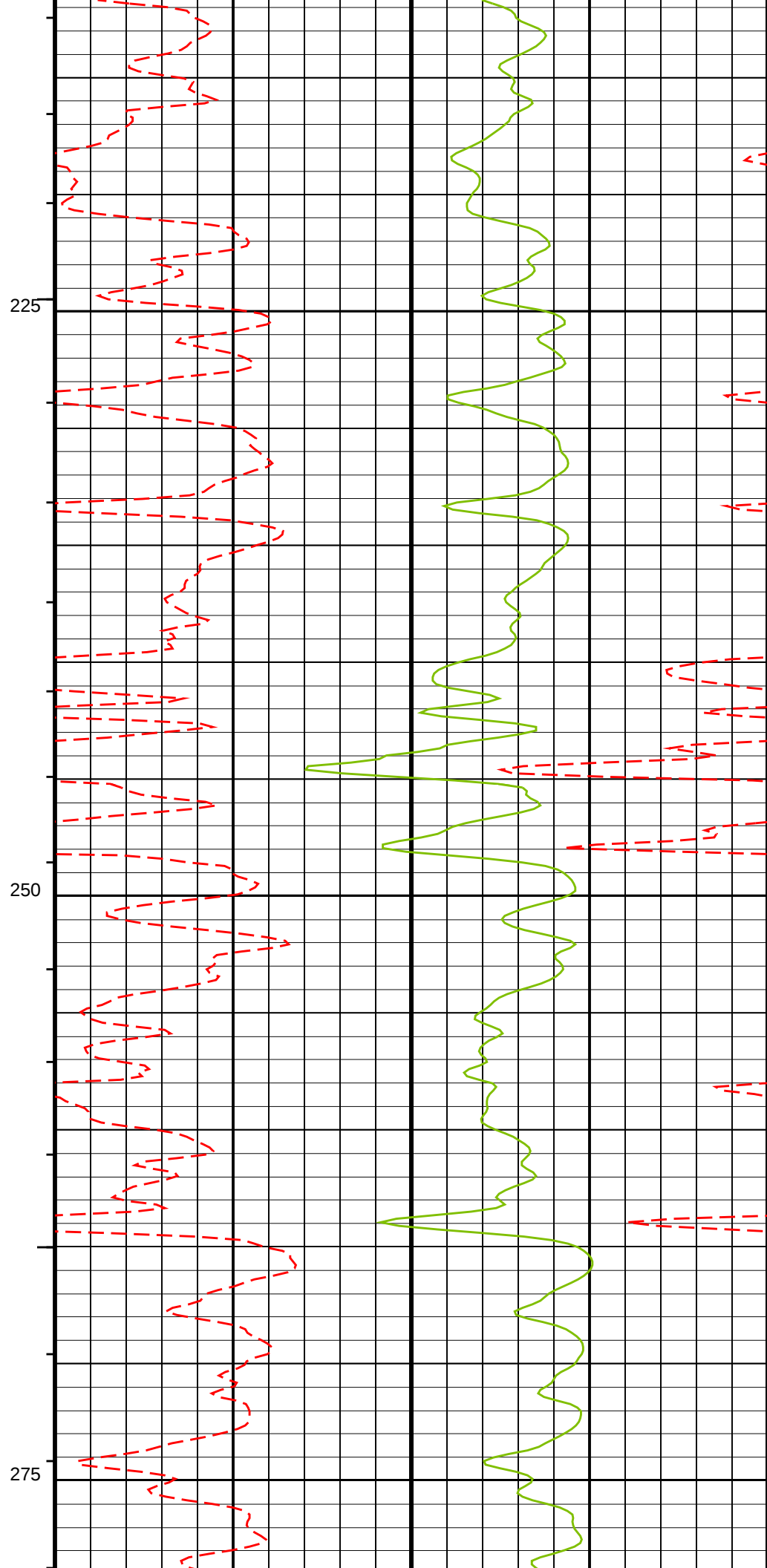
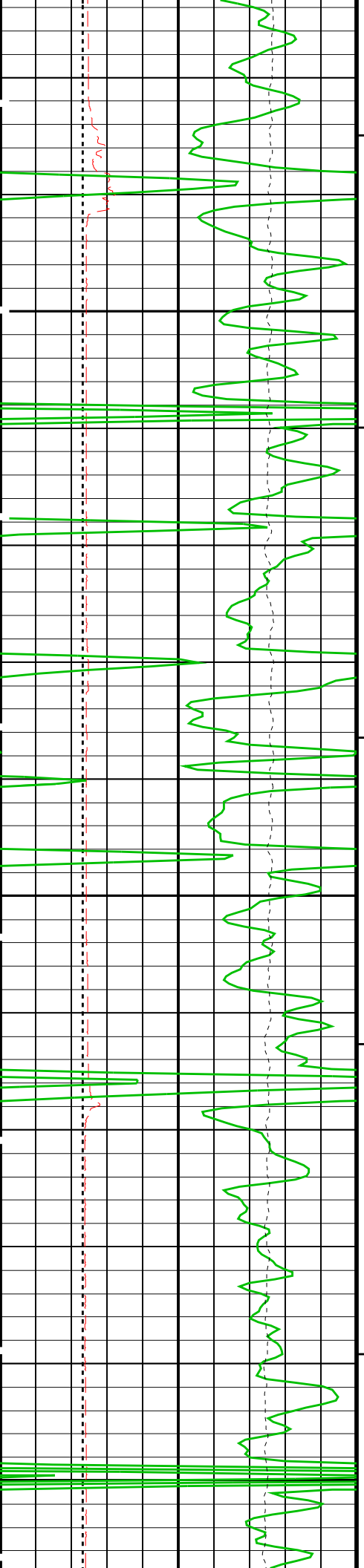
PIP SUMMARY	
└ Integrated Hole Volume Minor Pip Every 0.1 M3	
└ Integrated Hole Volume Major Pip Every 1 M3	
└ Integrated Transit Time Minor Pip Every 1 MS	
└ Integrated Transit Time Major Pip Every 10 MS	
Time Mark Every 60 S	

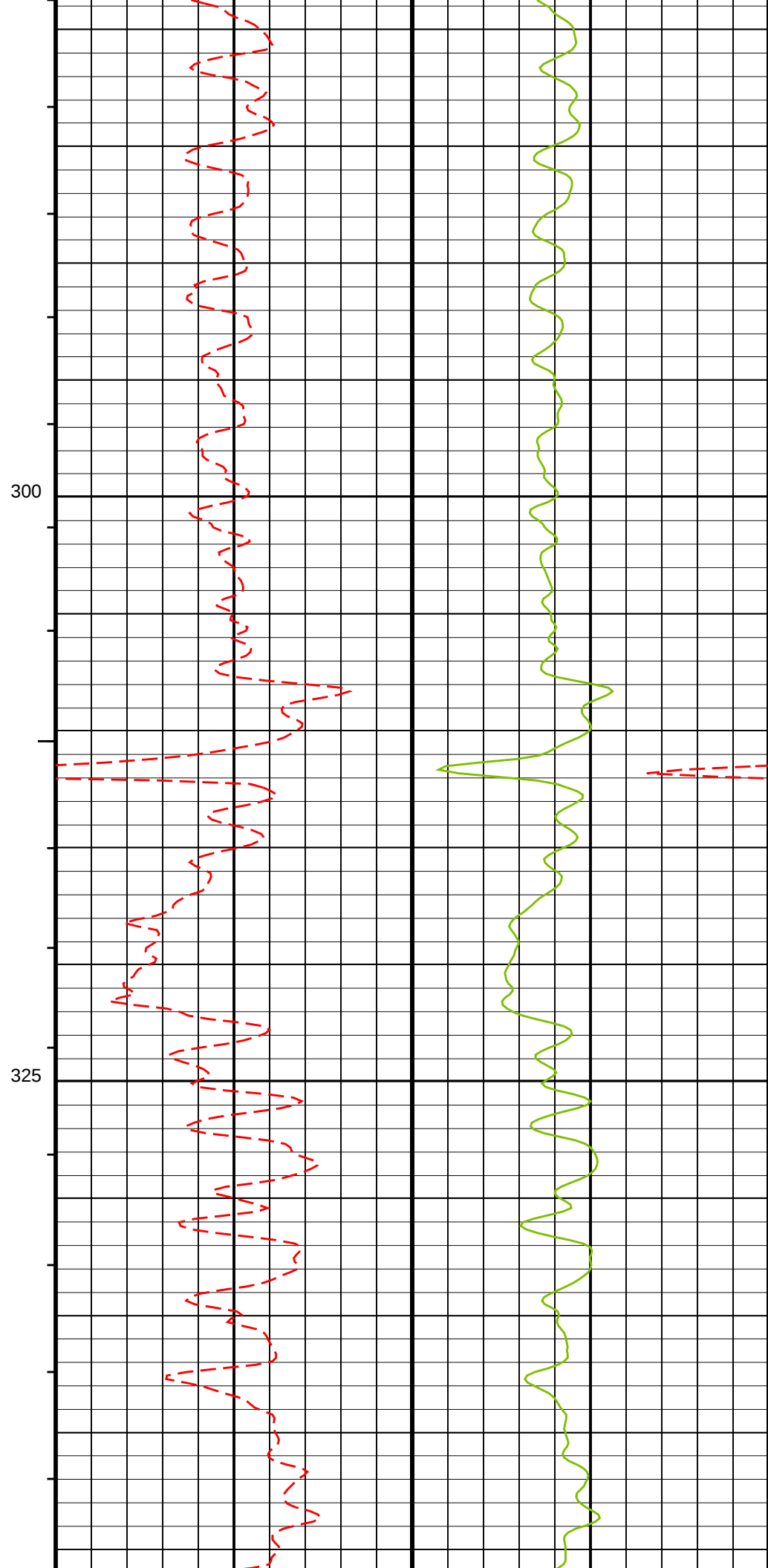
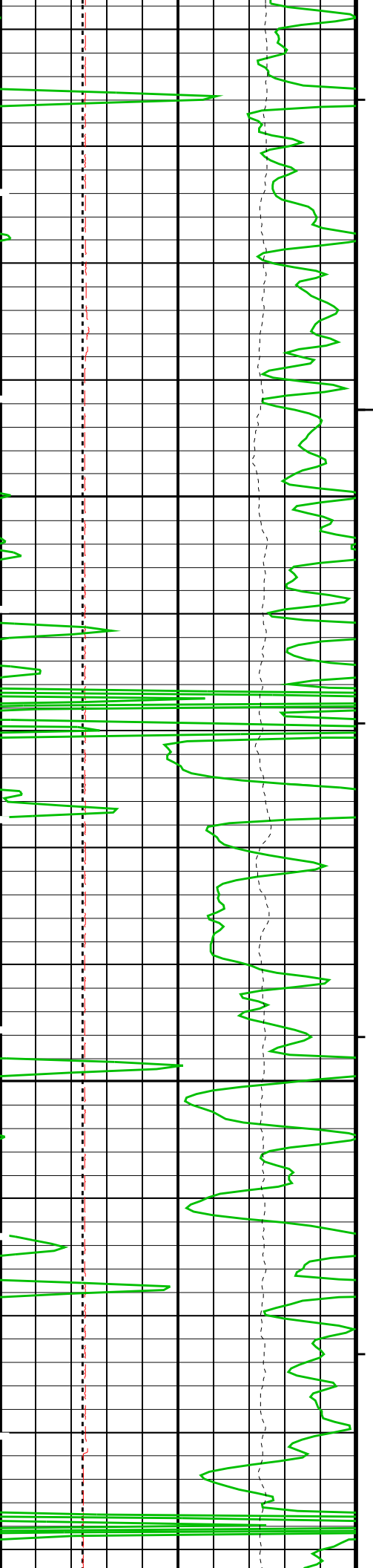
	Tension (TENS)	
	10000 (N)	0
Gamma Ray (GR)		
0	(GAPI)	150

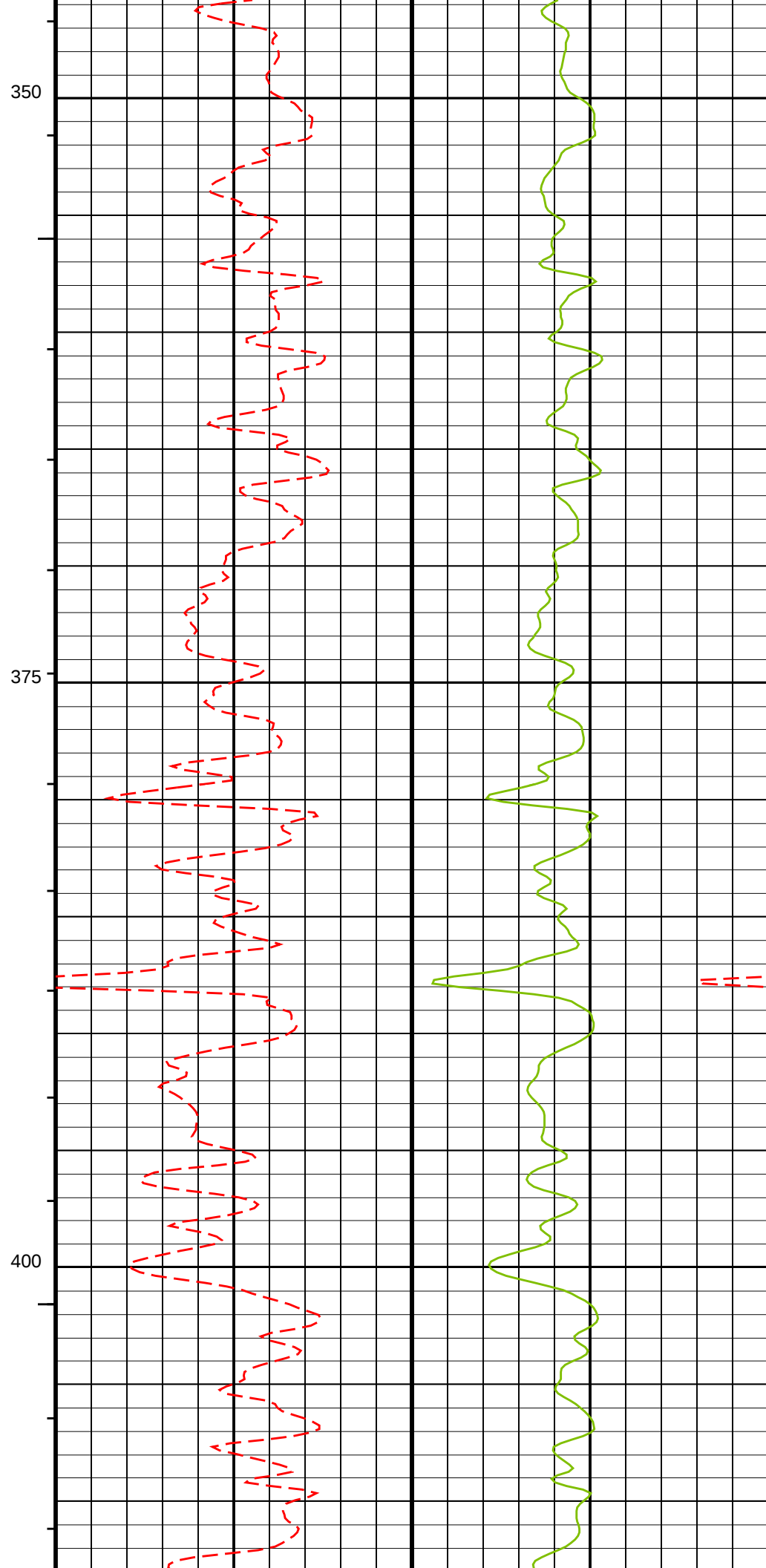
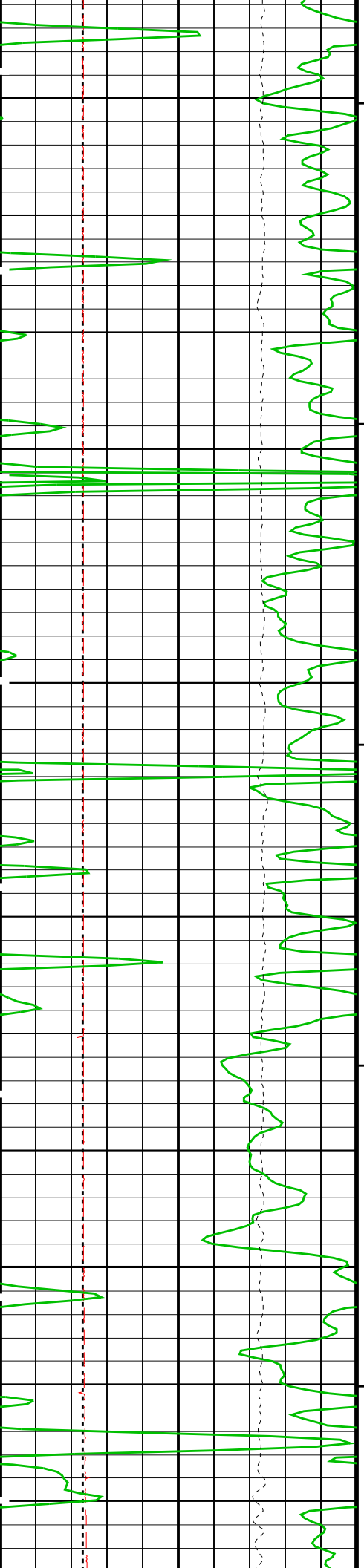


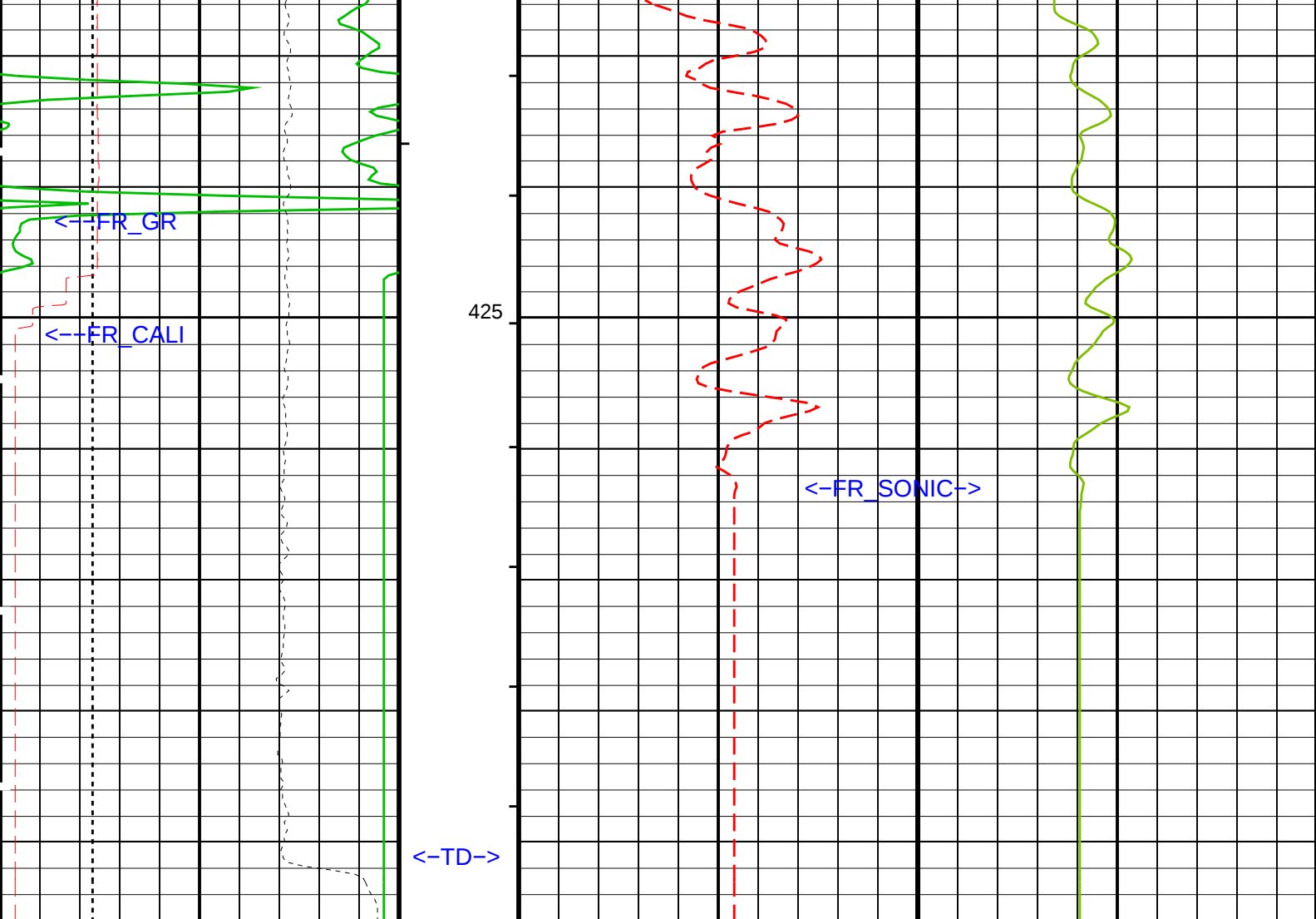
<-CD->











Caliper (CALI) (MM)		50	250
Bit Size (BS) (MM)		50	250
Gamma Ray (GR) (GAPI)		0	150
Tension (TENS) (N)		10000	0

Delta-T Compressional (DTCO) (US/M)		500	100
Delta-T Shear (DTSM) (US/M)		500	100

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
ABHV	Array Induction Borehole Correction Code Version Number	900
ABLV	Array Induction Basic Logs Code Version Number	223
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered
ADITM	Array Induction Desired Tool Mode	0x00_Log_MudAutoMode_000
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00
AIGS	Array Induction Select Akima Interpolation Gating	On
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On
ALNV	Array Induction Log Not Valid Flag	Log_Not_Valid-Default_Parameters
ARTS	AIT Rt Selection (for ALLRES computation)	IDFR_TwoResADeep
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00
ATSE_IDFR	IDFR Temperature BTD Selection (Sonde Error Correction)	BTD1

ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Control)	RTD1	
AULV	Array Induction User Level Control	Normal	
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R	
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
CRTM_IDFR	IDFR Current Tool Mode	0x00_Log_MudAutoMode_000	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_IDFR	IDFR Firmware Version	05.15.24	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISOD	Induction Standoff Outer Diameter	57.15	MM
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MFSZ_IDFR	IDFR Num Median Filter Elements	Disable	
PRTM_IDFR	IDFR Previous Tool Mode	0x00_Log_MudAutoMode_000	
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_IDFR	IDFR Computation Version	No Version Available	
RTCO	RTCO – Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
TEMPSM_IDFR	IDFR Temperature RTD Selection Mode	Automatic	
ISLT-B: iFlex Sonic Logging Tool			
ACSR	Array Cycle Skip Recovery	ON	
ADPS	A/D Conversion Phase Shift	NONE	
AMSG	Auxilliary Minimum Sliding Gate	180	US
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BRUL_FT	Baseline Removal Upper Limit – Far Tx	0	US
BRUL_LT	Baseline Removal Upper Limit – Lower Tx	0	US
BRUL_UT	Baseline Removal Upper Limit – Upper Tx	0	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	50	US
CDTS	C-Delta-T Shale	328.084	US/M
CLUSTER_INT	Clustering Interval	6.096	M
COLL	Label Slowness Lower Limit – P & S Comp	131.234	US/M
COUL	Label Slowness Upper Limit – P & S Comp	590.551	US/M
DDE1	Digitizing Delay 1 – Upper Tx	40	US
DDE2	Digitizing Delay 2 – Lower Tx	40	US
DETE	Detection Peak	E2	
DFAD	DFAD Computation Control	DSP	
DFAD_ATC	DFAD Automatic Threshold Control	ON	
DFAD_INTERVAL_MODE	Detection Interval Mode for first arrival	TRACK	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ISLT	ISLT Firmware Version	03.13.10	
DLSR	Depth Log Sampling Rate	TT1.5_WF6	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
DSIN	Digitizing Sample Interval	10	US
DTCM	Delta-T Computation Mode	FULL	
DTCS	Compressional Delta-T Source	DT	
DTF	Delta-T Fluid	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTMAX	Maximum Valid Value for DT	656.168	US/M
DTMIN	Minimum Valid Value for DT	131.234	US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx	
DWCO	Digitizing Word Count	256	
FILG	Label Fill Gap Control – P & S	COMP_SHEAR	
FIL LENG	STC Filter Length	21	
FULT	FTB Uplink Throughput for Sonic Tool	150	KB/S
GAI1	Gain Control 1 – Upper Tx	HIGH	
GAI2	Gain Control 2 – Lower Tx	HIGH	
GBHCL	Group BHC Limit	0.9	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GNFL	Group Near-Far Limit	0.9	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GSEPL	Group Separation Limit	65.6168	US/M
GSIZL	Group Size Limit	0.3	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HOLE_DIA	Hole Diameter	0	MM
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DT	
ITWI_FT	STC Integration Time Window – Far Tx	200	US
ITWI_LT	STC Integration Time Window – Lower Tx	160	US
ITWI_UT	STC Integration Time Window – Upper Tx	160	US
LFC	Label Formation Character – P & S	COMP_FIRST	
LPM_FT	Label Processing Mode – Far Tx	NONE	

LPM_LT	Label Processing Mode – Lower Tx	RECEIVER	
LPM_UT	Label Processing Mode – Upper Tx	RECEIVER	40
MAHTR	Manual High Threshold Reference		
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MNHTR	Minimum High Threshold Reference		30
MODE	Sonic Firing Mode	STC_BHC_DT_256WF_1800FPH	
NFLG	STC Wave Normalization Flag	OFF	
NFLIM	Near–Far boundary distance	2.1336	M
NFPI_L5	Free Pipe amplitude for LT–R5	2500	
NFPI_U1	Free Pipe amplitude for UT–R1	2500	
NMSG	Near Minimum Sliding Gate	250	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
NWI	Number of Waveform Items	6	
POWER_SAVE_TEST	ISLT Powersave test Mode	OFF	
PROC_INT	Processing Interval	3.048	M
PSTP	PSTC Tool Position on CAN Bus	1	
R42R	R4 to R2 Sensitivity Ratio	0	DB/M
RACO	Ray Angle Compensation	0.0109547	M
RATE	Sonic Firing Rate	12.5	HZ
REJREP	Reject Repeated Transit Times	ALLOW	
RSMN	Label Shear/Comp Minimum Ratio – P & S	1.4	
RSMX	Label Shear/Comp Maximum Ratio – P & S	2.12	
SALL	Sonic Amplitude Lower Limit	20	
SBOF_FT	STC Search Band Offset – Far Tx	230	US
SBOF_LT	STC Search Band Offset – Lower Tx	190	US
SBOF_UT	STC Search Band Offset – Upper Tx	190	US
SBWI_FT	STC Search Band Width – Far Tx	1580	US
SBWI_LT	STC Search Band Width – Lower Tx	860	US
SBWI_UT	STC Search Band Width – Upper Tx	860	US
SDL	Standard Deviation Acceptance Limit	2.5	
SDTH	Switch Down Threshold	29490	
SEMTHR	STC Semblance Threshold	0.25	
SENSOR_DIA	Sensor Diameter	19.05	MM
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Allow/Disallow	ON	
SGCL	Sliding Gate Closing Delta–T	558	US/M
SGCW	Sliding Gate Closing Width	33	US
SGDT	Sliding Gate Delta–T	131	US/M
SGW	Sliding Gate Width	80	US
SHLL	Label Slowness Lower Limit – P & S Shear	246.063	US/M
SHORT_FRAME_MODE	ISLT Short Frame Mode	OFF	
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit – P & S Shear	787.402	US/M
SLEV	Signal Level for Threshold Control	5000	
SLL	STC Slowness Lower Limit	131.234	US/M
SNRLL	Signal–to–Noise Ratio Lower Limit	25	DB
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPM_FT	STC Processing Mode – Far Tx	NONE	
SPM_LT	STC Processing Mode – Lower Tx	RECEIVER	
SPM_UT	STC Processing Mode – Upper Tx	RECEIVER	
SPSO	Sonic Porosity Source	DTCO	
SSTE	STC Slowness Step	6.56168	US/M
STC_LCF	STC Low Cutoff Freq.	2000	HZ
STHR	Separation Threshold	32.8084	US/M
SUL	STC Slowness Upper Limit	787.402	US/M
SUTH	Switch Up Threshold	3276	
SWID_FT	STC Slowness Width – Far Tx	65.6168	US/M
SWID_LT	STC Slowness Width – Lower Tx	65.6168	US/M
SWID_UT	STC Slowness Width – Upper Tx	65.6168	US/M
T12_TTMAX	T12 TT Intercept Maximum	492.126	US/M
T12_TTMIN	T12 TT Intercept Minimum	–164.042	US/M
T3_TTMAX	T3 TT Intercept Maximum	656.168	US/M
T3_TTMIN	T3 TT Intercept Minimum	–164.042	US/M
TBF_FT	STC Time for Baseline Fill – Far Tx	0	US
TBF_LT	STC Time for Baseline Fill – Lower Tx	0	US
TBF_UT	STC Time for Baseline Fill – Upper Tx	0	US
TFSI	Filter Sample Interval	0.3048	M
TFWL	Filter Window Length	0.6096	M
TLL_FT	STC Time Lower Limit – Far Tx	280	US
TLL_LT	STC Time Lower Limit – Lower Tx	120	US
TLL_UT	STC Time Lower Limit – Upper Tx	120	US
TP_FRAME	ISLT Test Phase Frame	OFF	
TSTE	STC Time Step	40	US
TTPROC_ALGSEL	Algorithm Select	CLUSTER	
TUL_FT	STC Time Upper Limit – Far Tx	2590	US
TUL_LT	STC Time Upper Limit – Lower Tx	1340	US
TUL_UT	STC Time Upper Limit – Upper Tx	1340	US
TWID_FT	STC Time Width – Far Tx	1190	US
TWID_LT	STC Time Width – Lower Tx	660	US
TWID_UT	STC Time Width – Upper Tx	660	US
ULTR	Upper to Lower Tx Power Ratio	0	DB/M
VDLG	VDL Manual Gain	5	
VDM	VDL Display Mode	NONE	
WMAG	DFAD Waveform Magnifier	1	

WPS1	Waveform Plot Selection 1	R1	
WPS2	Waveform Plot Selection 2	R5	
ZCGW	Zero Crossing Gate Width	100	US
ZCTT	Option to compute Zero Crossing Transit Time	OFF	
ILD-T-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2650	K/M3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
SHT	Surface Hole Temperature	20	DEGC
TBHDS_ILDT	ILD-T Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
	Tractor Available in Tool String	YES	
BARI_ITGN	Barite Mud Presence Flag	YES	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
CSID	Casing Size I.D.	4.13386	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	06.15.15	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	444.80	M
TDL	Total Depth - Logger	445.80	M
System and Miscellaneous			
ALTDPCNAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	96.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	114.200	MM

CSIZ	Current Casing Size	114.300	MM
CWEI	Casing Weight	40.00	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.2	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	10.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	445.8	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SONIC-500-S5-CAN Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41	446.5 M	319.9 M
---------	----------------------------	-------	----------	-------------------	---------	---------

Integrated Hole/Cement Volume Summary

Hole Volume = 0.83 M3

Cement Volume = 0.83 M3 (assuming 0.00 MM casing O.D.)

Computed from 445.8 M to 320.0 M using data channel(s) CALI

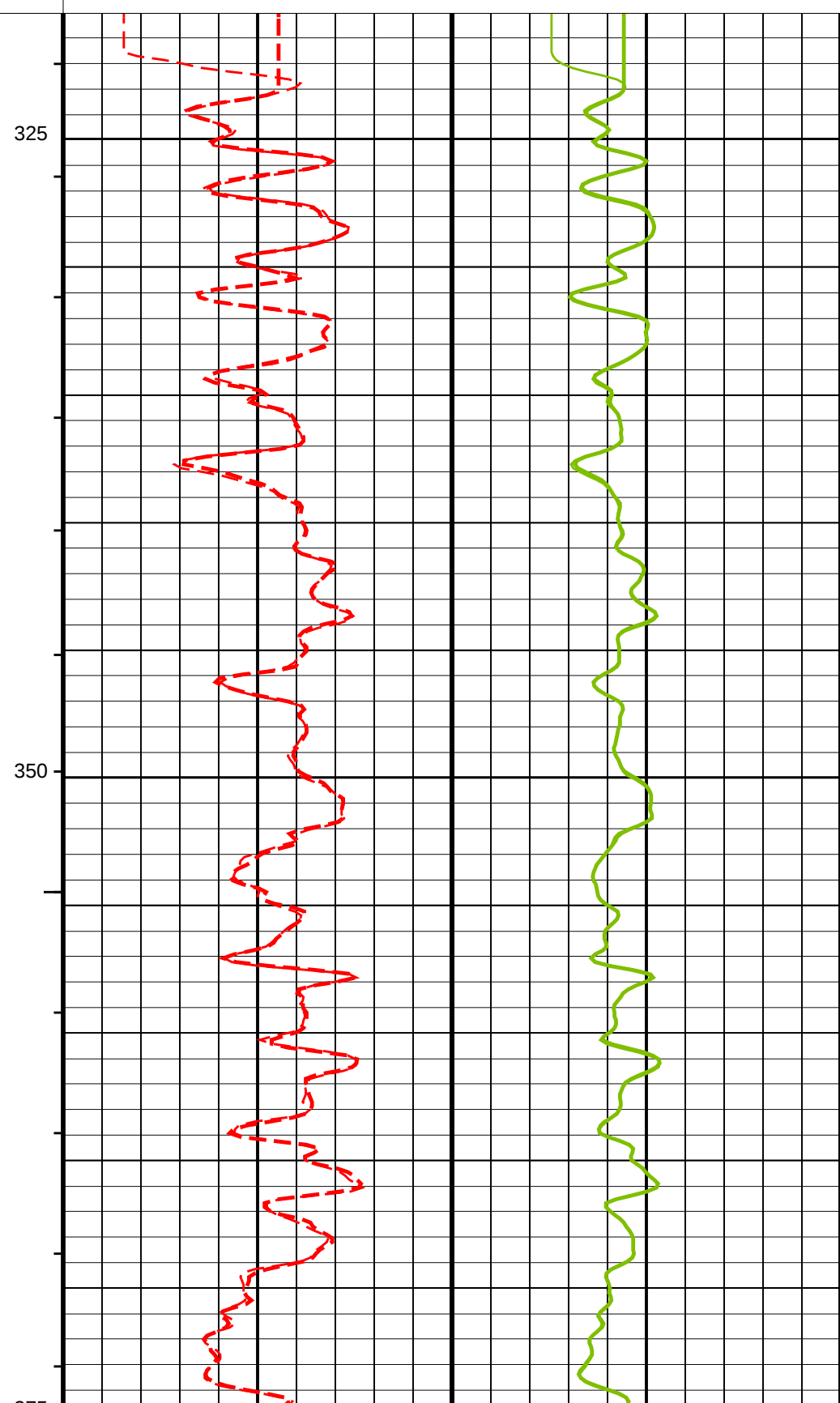
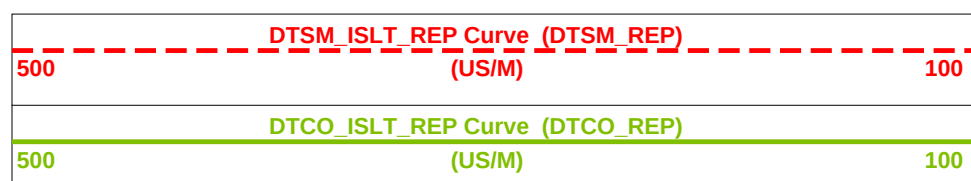
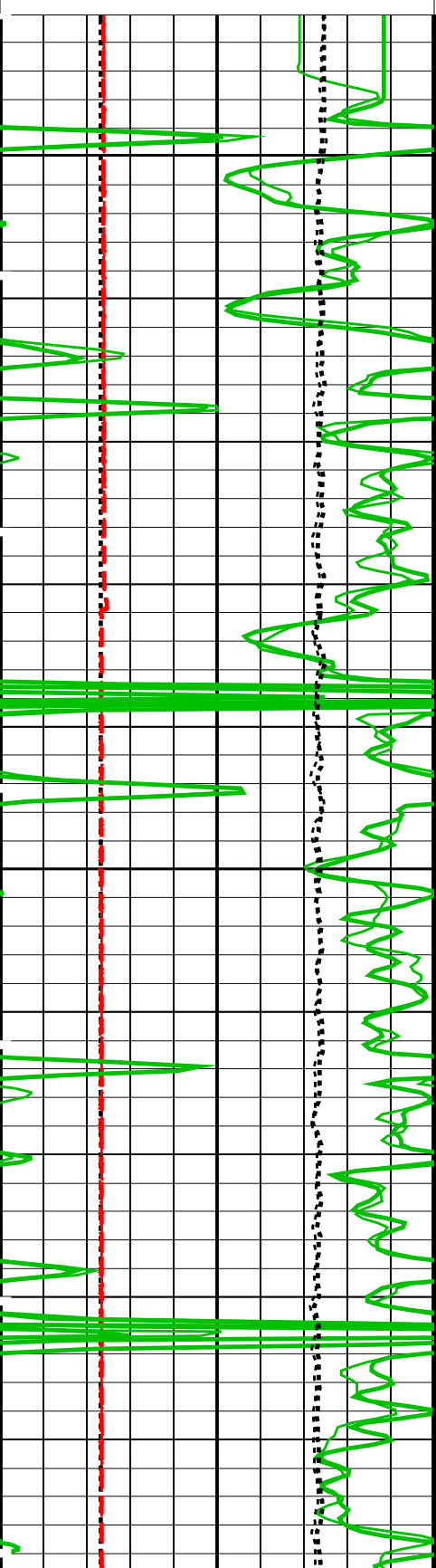
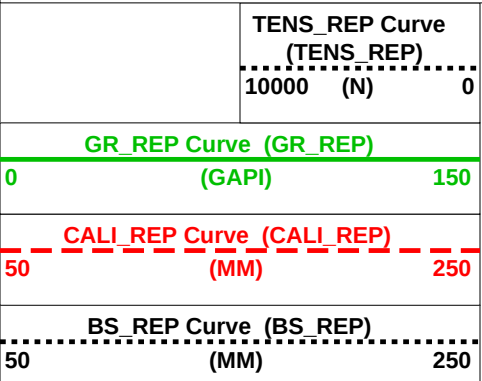
OP System Version: 17C0-154

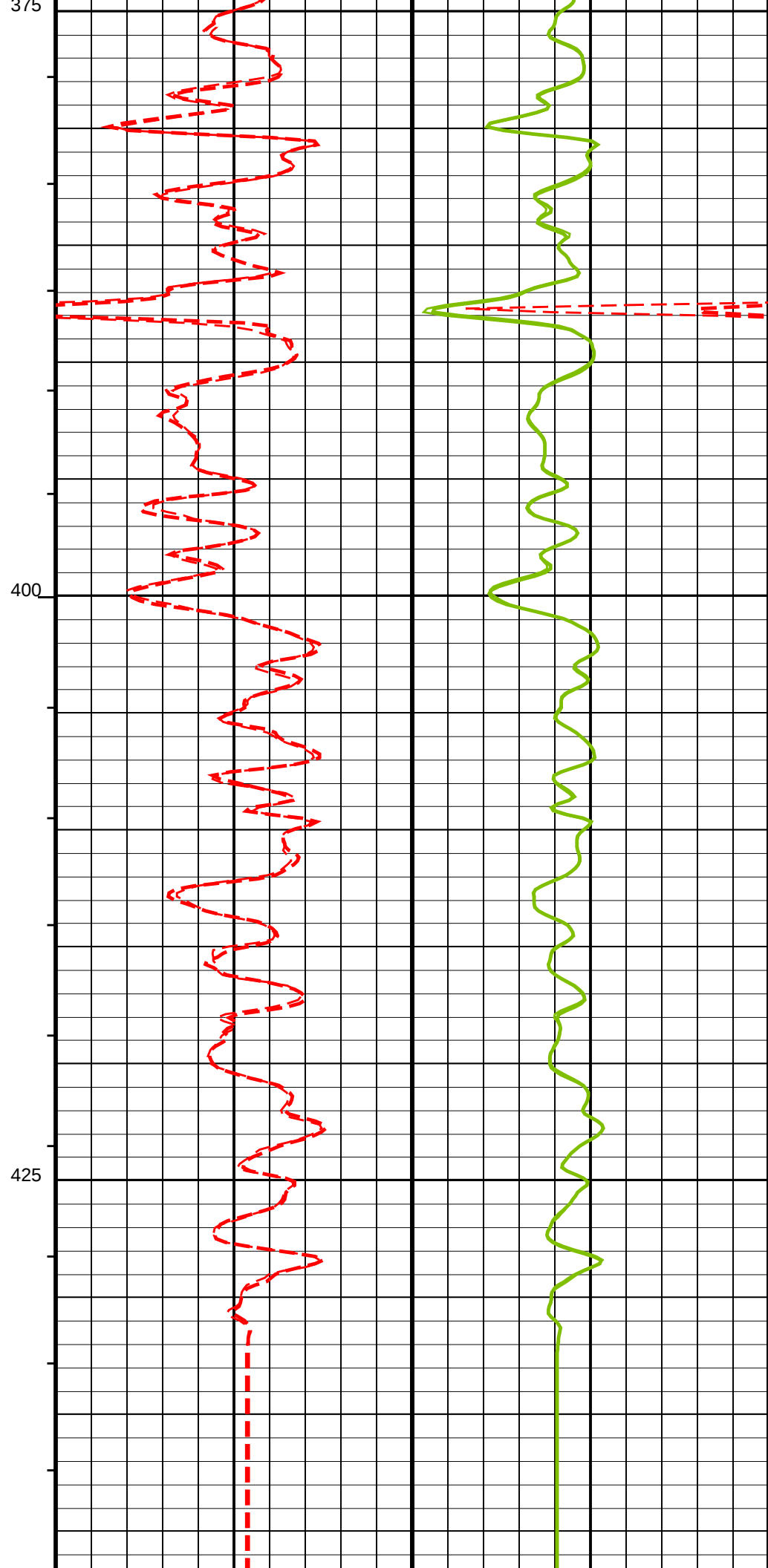
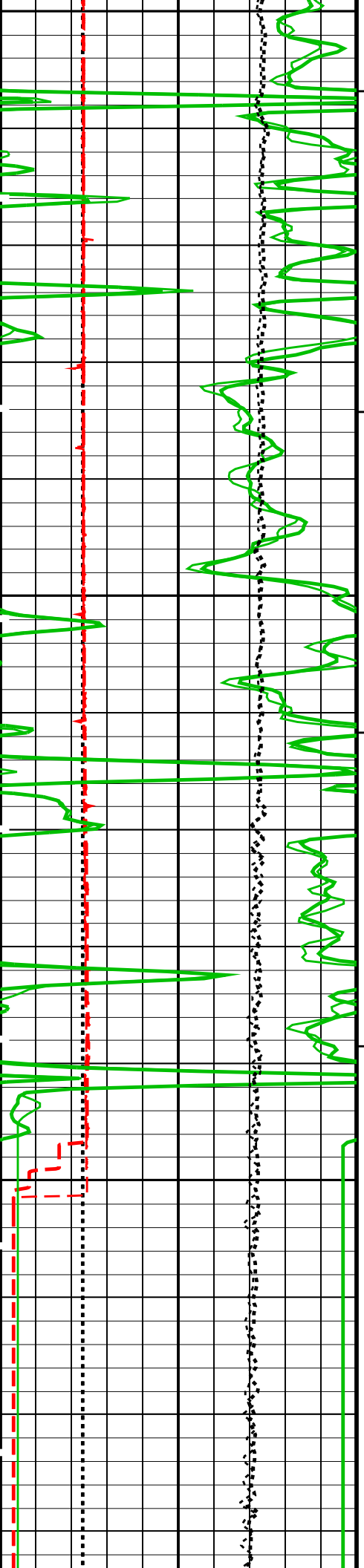
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

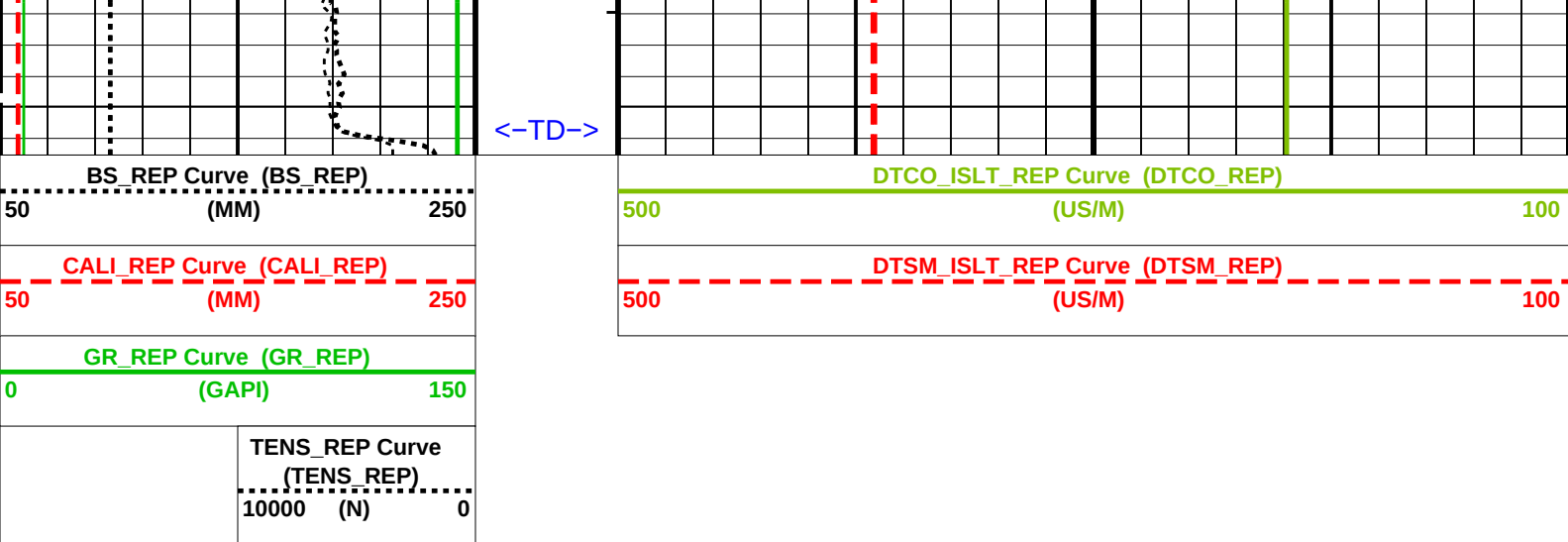
PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Transit Time Minor Pip Every 1 MS
 - └ Integrated Transit Time Major Pip Every 10 MS

Time Mark Every 60 S







PIP SUMMARY	
└	Integrated Hole Volume Minor Pip Every 0.1 M3
└	Integrated Hole Volume Major Pip Every 1 M3
└	Integrated Transit Time Minor Pip Every 1 MS
└	Integrated Transit Time Major Pip Every 10 MS
Time Mark Every 60 S	

Parameters		
DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
ABHV	Array Induction Borehole Correction Code Version Number	900
ABLV	Array Induction Basic Logs Code Version Number	223
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered
ADITM	Array Induction Desired Tool Mode	0x00_Log_MudAutoMode_000
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00
AIGS	Array Induction Select Akima Interpolation Gating	On
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On
ALNV	Array Induction Log Not Valid Flag	Log_Not_Valid-Default_Parameters
ARTS	AIT Rt Selection (for ALLRES computation)	IDFR_TwoResADeep
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1
AULV	Array Induction User Level Control	Normal
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	40
CRTM_IDFR	IDFR Current Tool Mode	0x00_Log_MudAutoMode_000
DFT_IFLEX	Drilling Fluid Type	WATER
DHNV_IDFR	IDFR Firmware Version	05.15.24
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
FPHI	Form Factor Porosity Source	DPHI
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0
GGRD	Geothermal Gradient	0.018227
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
ISOD	Induction Standoff Outer Diameter	57.15
ISSBAR	Barite Mud Switch	BARITE
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MFSZ_IDFR	IDFR Num Median Filter Elements	Disable
PRTM_IDFR	IDFR Previous Tool Mode	0x00_Log_MudAutoMode_000
PSTP	PSTC Tool Position on CAN Bus	1
PVN_IDFR	IDFR Computation Version	No Version Available
RTCO	RTCO - Rt Invasion Correction	YES
SHT	Surface Hole Temperature	20
SPNV	SP Next Value	0
TEMPSM_IDFR	IDFR Temperature RTD Selection Mode	Automatic
ISLT-B: iFlex Sonic Logging Tool		
ACSR	Array Cycle Skip Recovery	ON
ADPS	A/D Conversion Phase Shift	NONE
AMSG	Auxilliary Minimum Sliding Gate	180
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	40
BRUL_FT	Baseline Removal Upper Limit - Far Tx	0
BRUL_LT	Baseline Removal Upper Limit - Lower Tx	0

BRUL_UT	Baseline Removal Upper Limit - Upper Tx	0	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	50	US
CDTS	C-Delta-T Shale	328.084	US/M
CLUSTER_INT	Clustering Interval	6.096	M
COLL	Label Slowness Lower Limit - P & S Comp	131.234	US/M
COUL	Label Slowness Upper Limit - P & S Comp	590.551	US/M
DDE1	Digitizing Delay 1 - Upper Tx	40	US
DDE2	Digitizing Delay 2 - Lower Tx	40	US
DETE	Detection Peak	E2	
DFAD	DFAD Computation Control	DSP	
DFAD_ATC	DFAD Automatic Threshold Control	ON	
DFAD_INTERVAL_MODE	Detection Interval Mode for first arrival	TRACK	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ISLT	ISLT Firmware Version	03.13.10	
DLSR	Depth Log Sampling Rate	TT1.5_WF6	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
DSIN	Digitizing Sample Interval	10	US
DTCM	Delta-T Computation Mode	FULL	
DTCS	Compressional Delta-T Source	DT	
DTF	Delta-T Fluid	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTMAX	Maximum Valid Value for DT	656.168	US/M
DTMIN	Minimum Valid Value for DT	131.234	US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx	
DWCO	Digitizing Word Count	256	
FILG	Label Fill Gap Control - P & S	COMP_SHEAR	
FIL LENG	STC Filter Length	21	
FULT	FTB Uplink Throughput for Sonic Tool	150	KB/S
GA1	Gain Control 1 - Upper Tx	HIGH	
GA2	Gain Control 2 - Lower Tx	HIGH	
GBHCL	Group BHC Limit	0.9	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GNFL	Group Near-Far Limit	0.9	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GSEPL	Group Separation Limit	65.6168	US/M
GSIZL	Group Size Limit	0.3	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HOLE_DIA	Hole Diameter	0	MM
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DT	
ITWI_FT	STC Integration Time Window - Far Tx	200	US
ITWI_LT	STC Integration Time Window - Lower Tx	160	US
ITWI_UT	STC Integration Time Window - Upper Tx	160	US
LFC	Label Formation Character - P & S	COMP_FIRST	
LPM_FT	Label Processing Mode - Far Tx	NONE	
LPM_LT	Label Processing Mode - Lower Tx	RECEIVER	
LPM_UT	Label Processing Mode - Upper Tx	RECEIVER	
MAHTR	Manual High Threshold Reference	40	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	STC_BHC_DT_256WF_1800FPH	
NFLG	STC Wave Normalization Flag	OFF	
NFLIM	Near-Far boundary distance	2.1336	M
NFPI_L5	Free Pipe amplitude for LT-R5	2500	
NFPI_U1	Free Pipe amplitude for UT-R1	2500	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
NWI	Number of Waveform Items	6	
POWER_SAVE_TEST	ISLT Powersave test Mode	OFF	
PROC_INT	Processing Interval	3.048	M
PSTP	PSTC Tool Position on CAN Bus	1	
R42R	R4 to R2 Sensitivity Ratio	0	DB/M
RACO	Ray Angle Compensation	0.0109547	M
RATE	Sonic Firing Rate	12.5	HZ
REJREP	Reject Repeated Transit Times	ALLOW	
RSMN	Label Shear/Comp Minimum Ratio - P & S	1.4	
RSMX	Label Shear/Comp Maximum Ratio - P & S	2.12	
SALL	Sonic Amplitude Lower Limit	20	
SBOF_FT	STC Search Band Offset - Far Tx	230	US
SBOF_LT	STC Search Band Offset - Lower Tx	190	US
SBOF_UT	STC Search Band Offset - Upper Tx	190	US
SBWI_FT	STC Search Band Width - Far Tx	1580	US
SBWI_LT	STC Search Band Width - Lower Tx	860	US
SBWI_UT	STC Search Band Width - Upper Tx	860	US
SDL	Standard Deviation Acceptance Limit	2.5	
SDTH	Switch Down Threshold	29490	
SEMTHR	STC Semblance Threshold	0.25	
SENSOR_DIA	Sensor Diameter	19.05	MM
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Allow/Disallow	ON	
SGCL	Sliding Gate Closing Delta-T	558	US/M

SGCW	Sliding Gate Closing Width	33	US
SGDT	Sliding Gate Delta-T	131	US/M
SGW	Sliding Gate Width	80	US
SHLL	Label Slowness Lower Limit - P & S Shear	246.063	US/M
SHORT_FRAME_MODE	ISLT Short Frame Mode	OFF	
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit - P & S Shear	787.402	US/M
SLEV	Signal Level for Threshold Control	5000	
SLL	STC Slowness Lower Limit	131.234	US/M
SNRLL	Signal-to-Noise Ratio Lower Limit	25	DB
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPM_FT	STC Processing Mode - Far Tx	NONE	
SPM_LT	STC Processing Mode - Lower Tx	RECEIVER	
SPM_UT	STC Processing Mode - Upper Tx	RECEIVER	
SPSO	Sonic Porosity Source	DTCO	
SSTE	STC Slowness Step	6.56168	US/M
STC_LCF	STC Low Cutoff Freq.	2000	HZ
STHR	Separation Threshold	32.8084	US/M
SUL	STC Slowness Upper Limit	787.402	US/M
SUTH	Switch Up Threshold	3276	
SWID_FT	STC Slowness Width - Far Tx	65.6168	US/M
SWID_LT	STC Slowness Width - Lower Tx	65.6168	US/M
SWID_UT	STC Slowness Width - Upper Tx	65.6168	US/M
T12_TTMAX	T12 TT Intercept Maximum	492.126	US/M
T12_TTMIN	T12 TT Intercept Minimum	-164.042	US/M
T3_TTMAX	T3 TT Intercept Maximum	656.168	US/M
T3_TTMIN	T3 TT Intercept Minimum	-164.042	US/M
TBF_FT	STC Time for Baseline Fill - Far Tx	0	US
TBF_LT	STC Time for Baseline Fill - Lower Tx	0	US
TBF_UT	STC Time for Baseline Fill - Upper Tx	0	US
TFSI	Filter Sample Interval	0.3048	M
TFWL	Filter Window Length	0.6096	M
TLL_FT	STC Time Lower Limit - Far Tx	280	US
TLL_LT	STC Time Lower Limit - Lower Tx	120	US
TLL_UT	STC Time Lower Limit - Upper Tx	120	US
TP_FRAME	ISLT Test Phase Frame	OFF	
TSTE	STC Time Step	40	US
TTPROC_ALGSEL	Algorithm Select	CLUSTER	
TUL_FT	STC Time Upper Limit - Far Tx	2590	US
TUL_LT	STC Time Upper Limit - Lower Tx	1340	US
TUL_UT	STC Time Upper Limit - Upper Tx	1340	US
TWID_FT	STC Time Width - Far Tx	1190	US
TWID_LT	STC Time Width - Lower Tx	660	US
TWID_UT	STC Time Width - Upper Tx	660	US
ULTR	Upper to Lower Tx Power Ratio	0	DB/M
VDLG	VDL Manual Gain	5	
VDM	VDL Display Mode	NONE	
WMAG	DFAD Waveform Magnifier	1	
WPS1	Waveform Plot Selection 1	R1	
WPS2	Waveform Plot Selection 2	R5	
ZCGW	Zero Crossing Gate Width	100	US
ZCTT	Option to compute Zero Crossing Transit Time	OFF	
ILDT-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2650	K/M3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
SHT	Surface Hole Temperature	20	DEGC
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
BARI_ITGN	Tractor Available in Tool String	YES	
BHS	Barite Mud Presence Flag	YES	
BHT	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
CSID	Casing Size ID	4.12286	IN

CSID	Casing Size I.D.	4.13386	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	06.15.15	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	444.80	M
TDL	Total Depth - Logger	445.80	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	96.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	114.300	MM
CWEI	Casing Weight	40.00	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	10.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	445.8	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SONIC-500-S5-CAN_REP Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 15:41

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41
---------	----------------------------	-------	----------	-------------------

Company: Deer Lake Oil and Gas, Inc.

Well: Werner Hatch 1

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

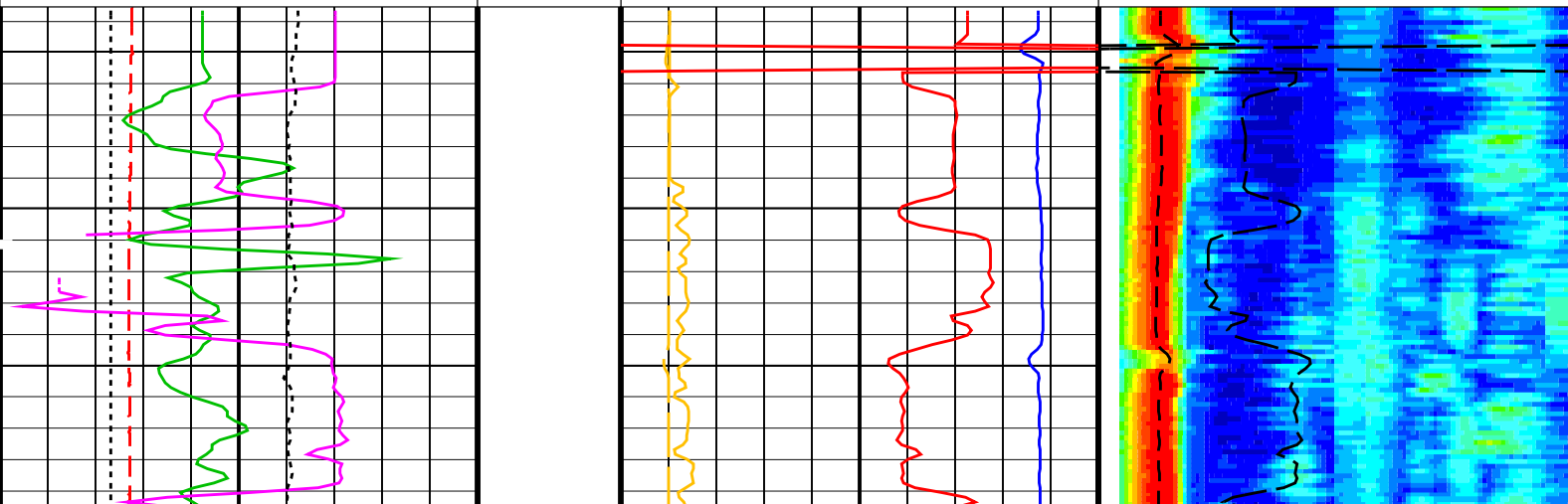
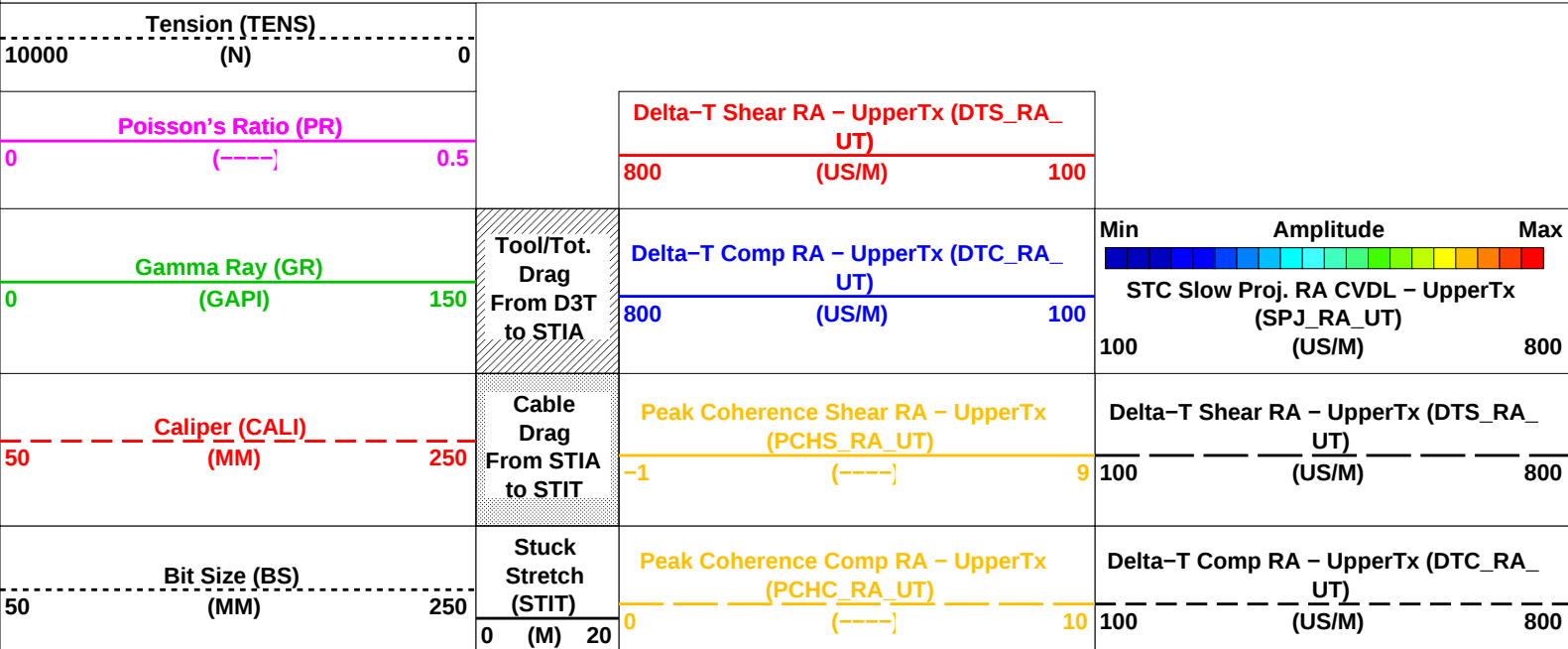
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

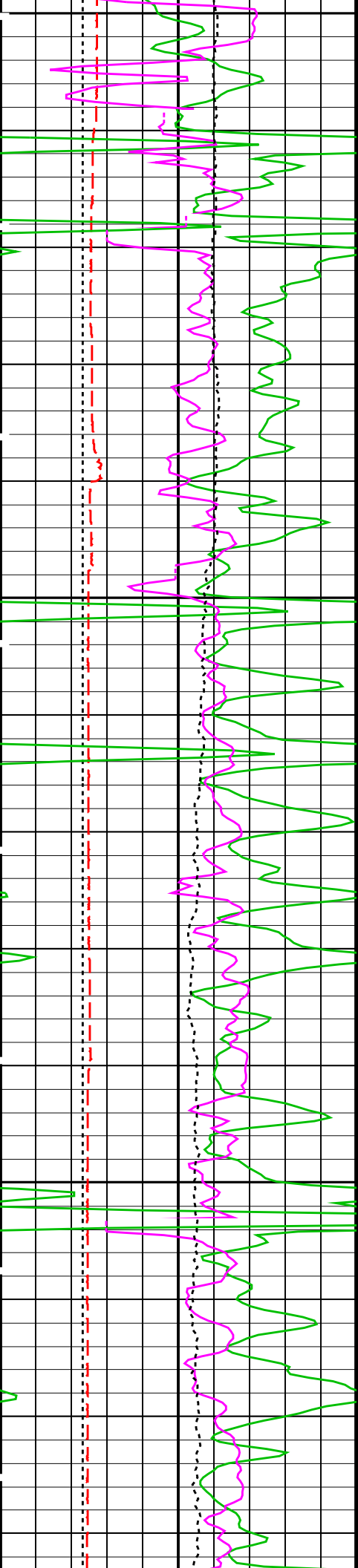
OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILD-T-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

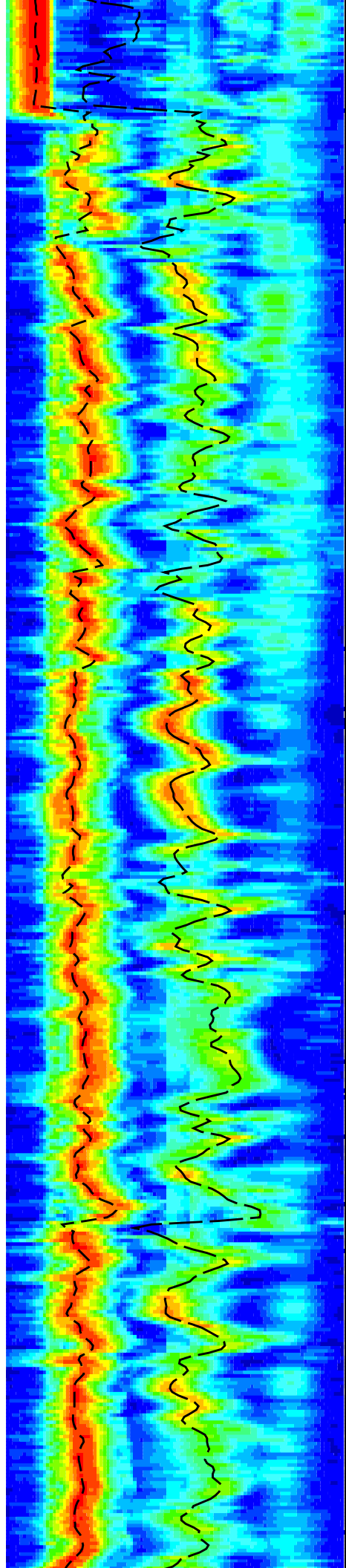
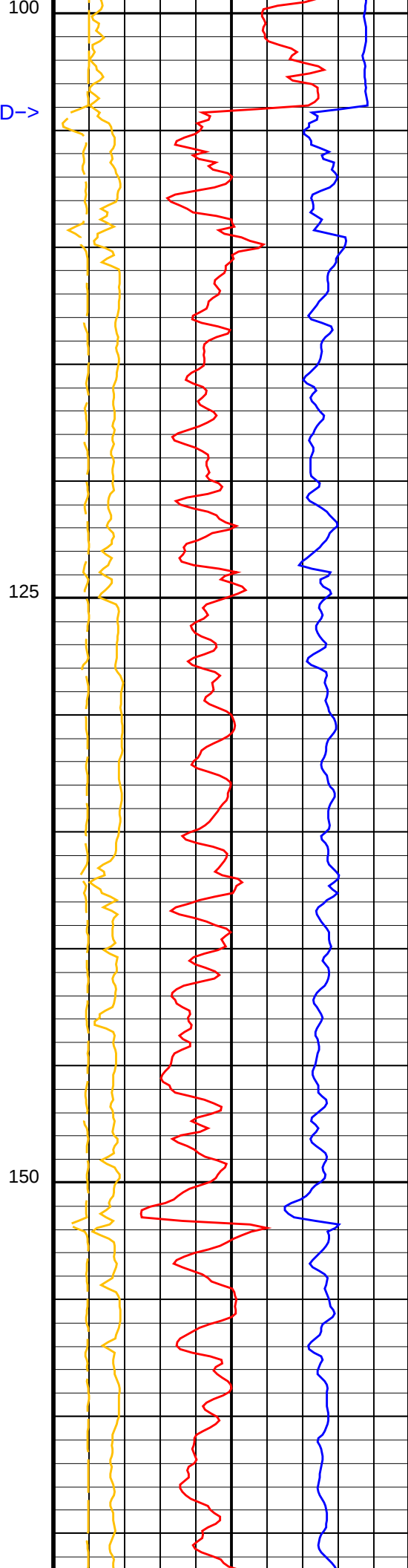
PIP SUMMARY

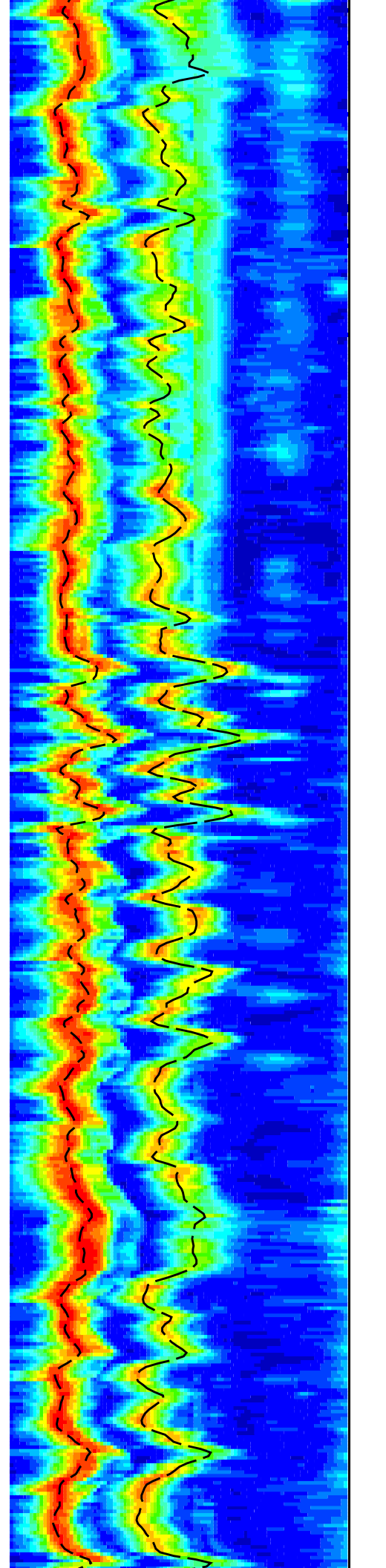
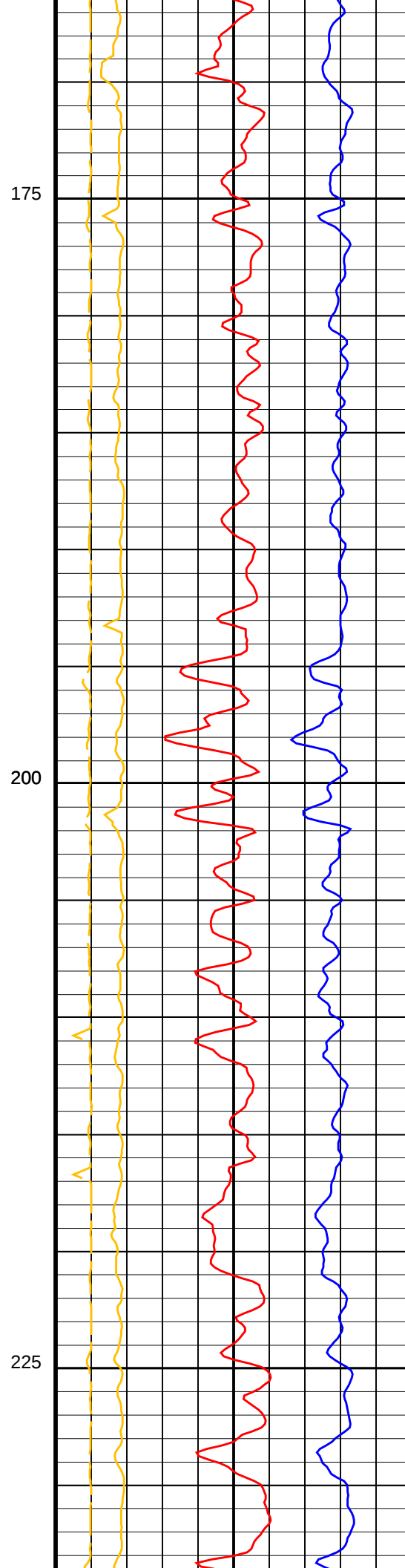
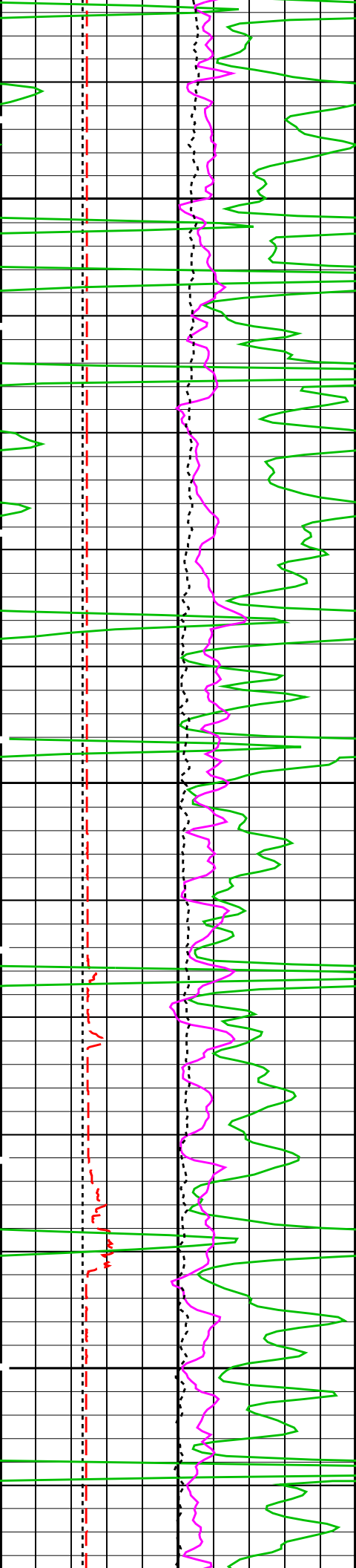
Time Mark Every 60 S

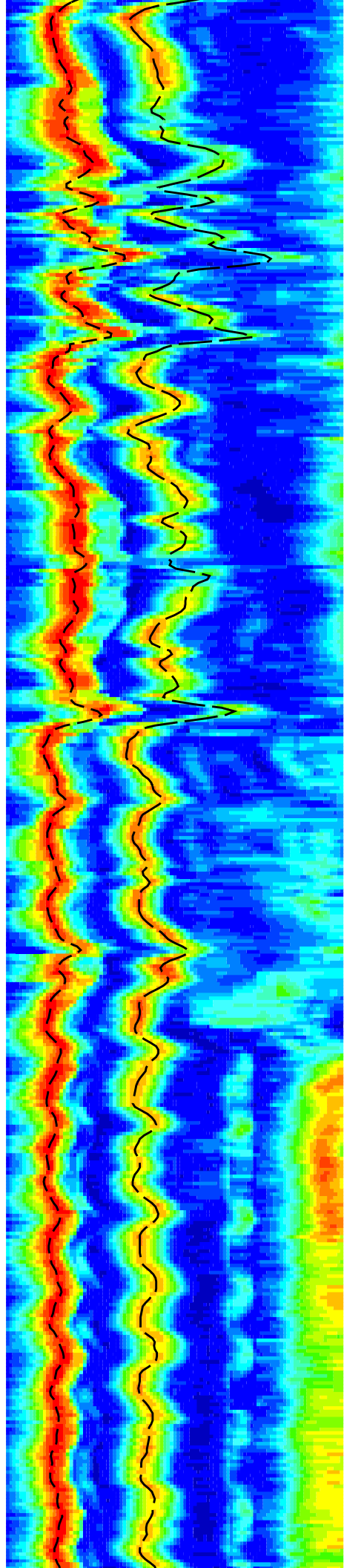
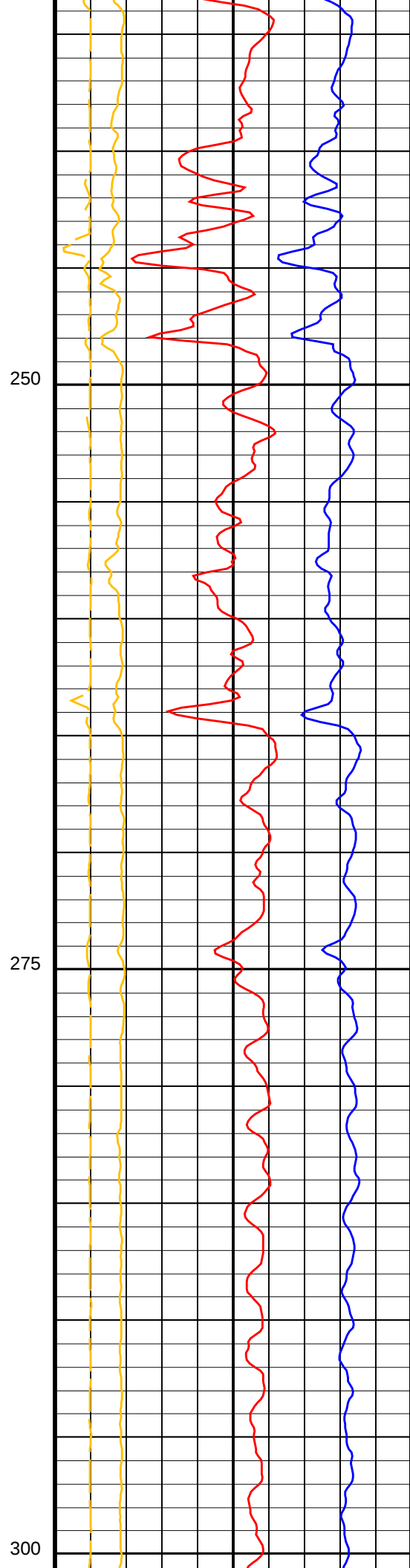
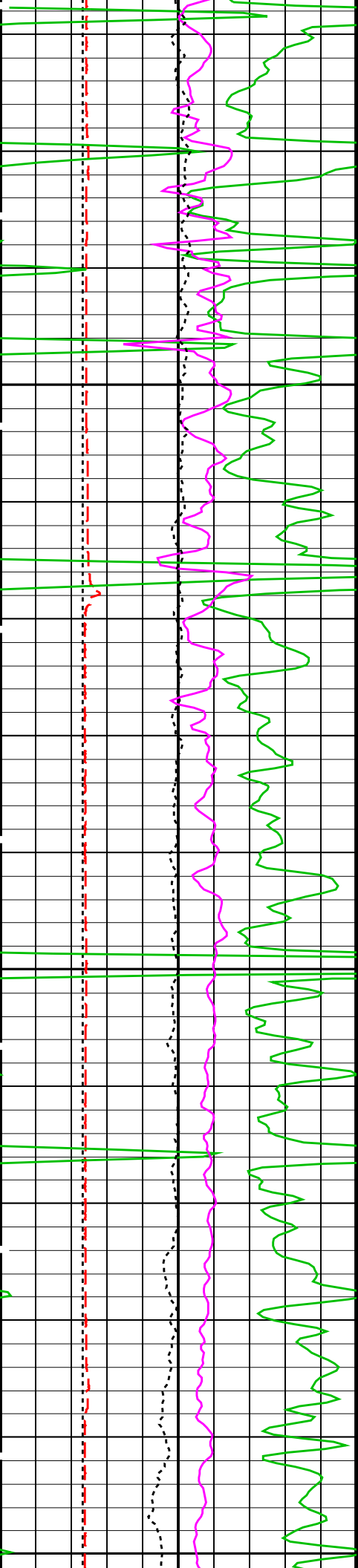


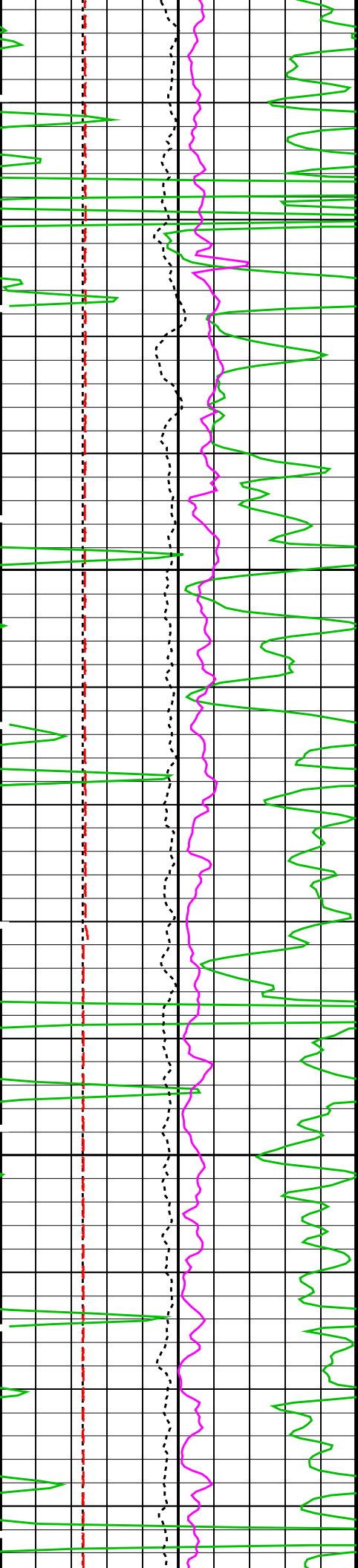


<-CD->



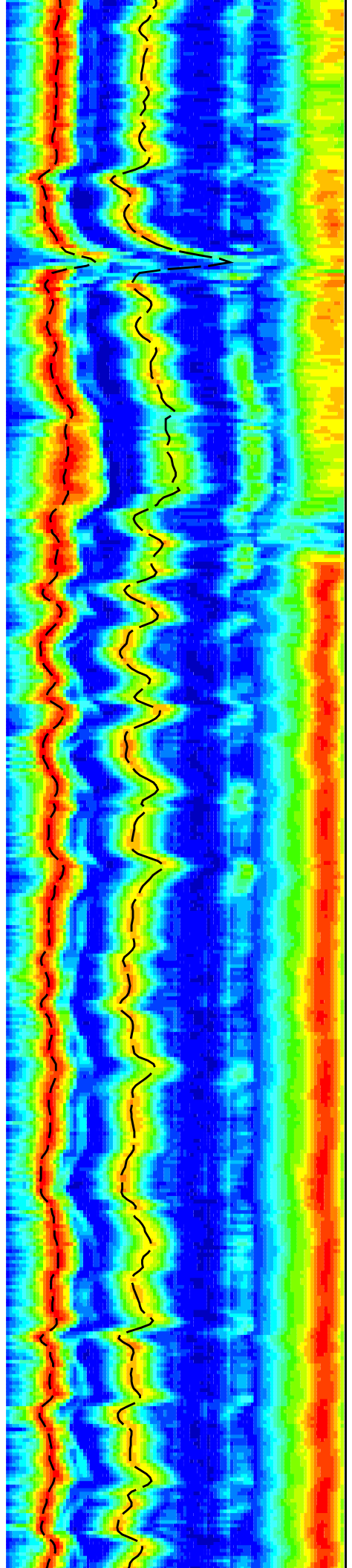
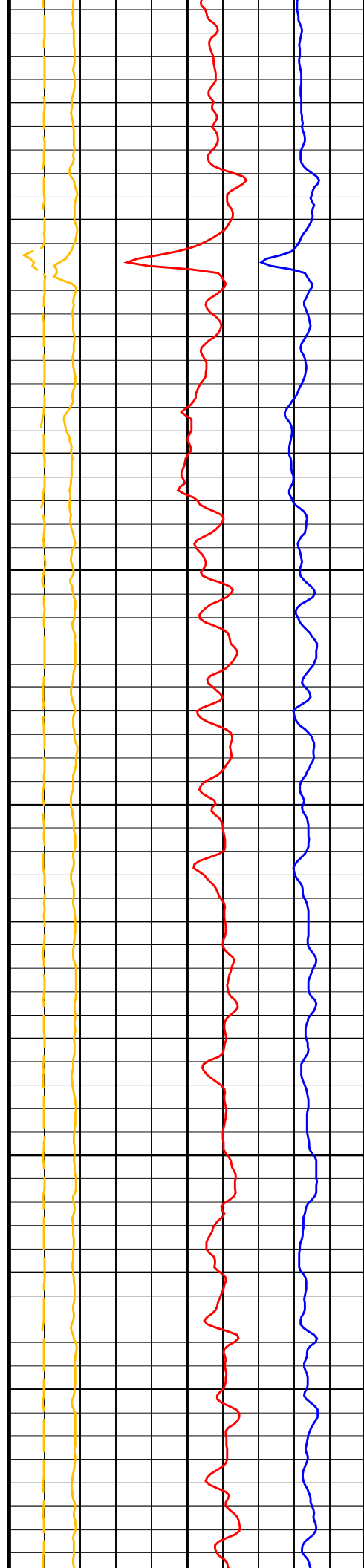


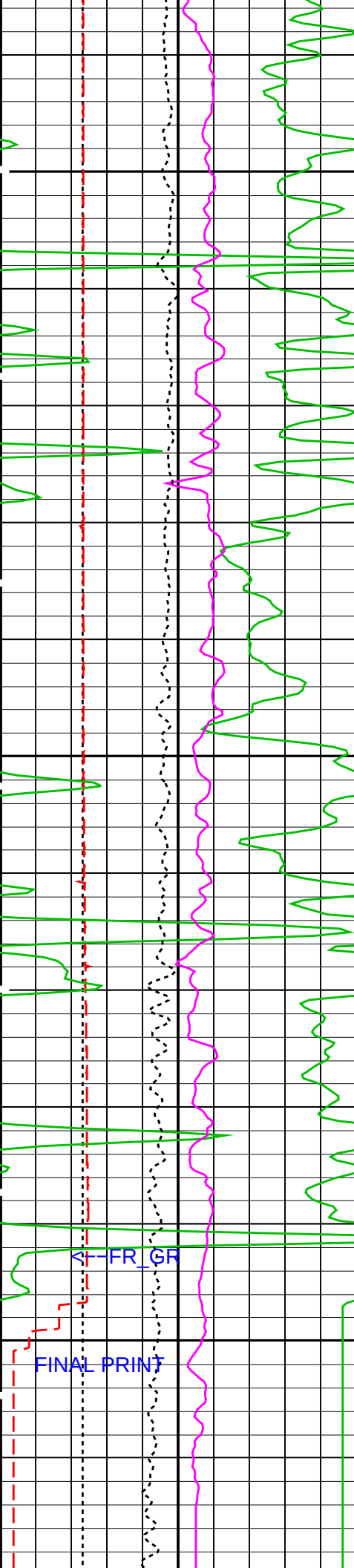




325

350



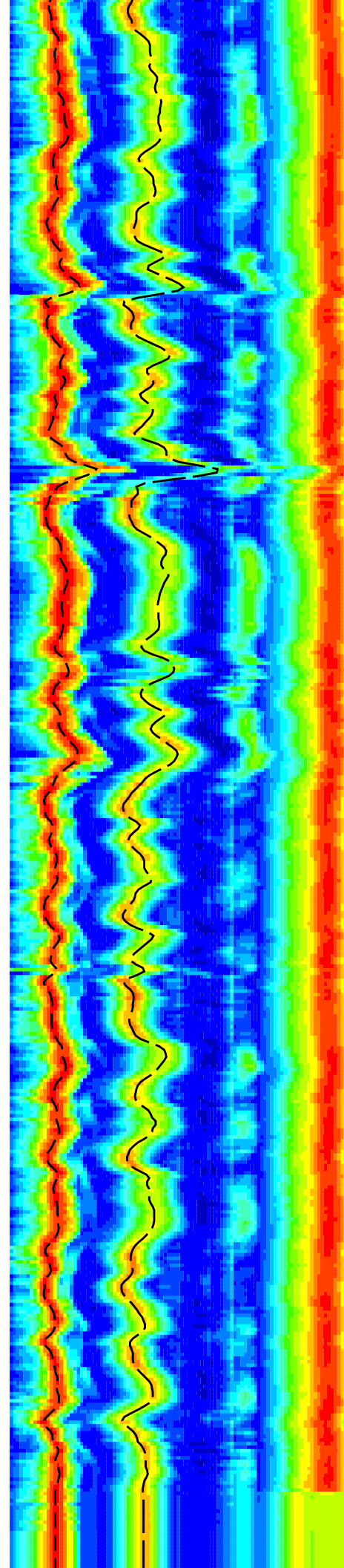


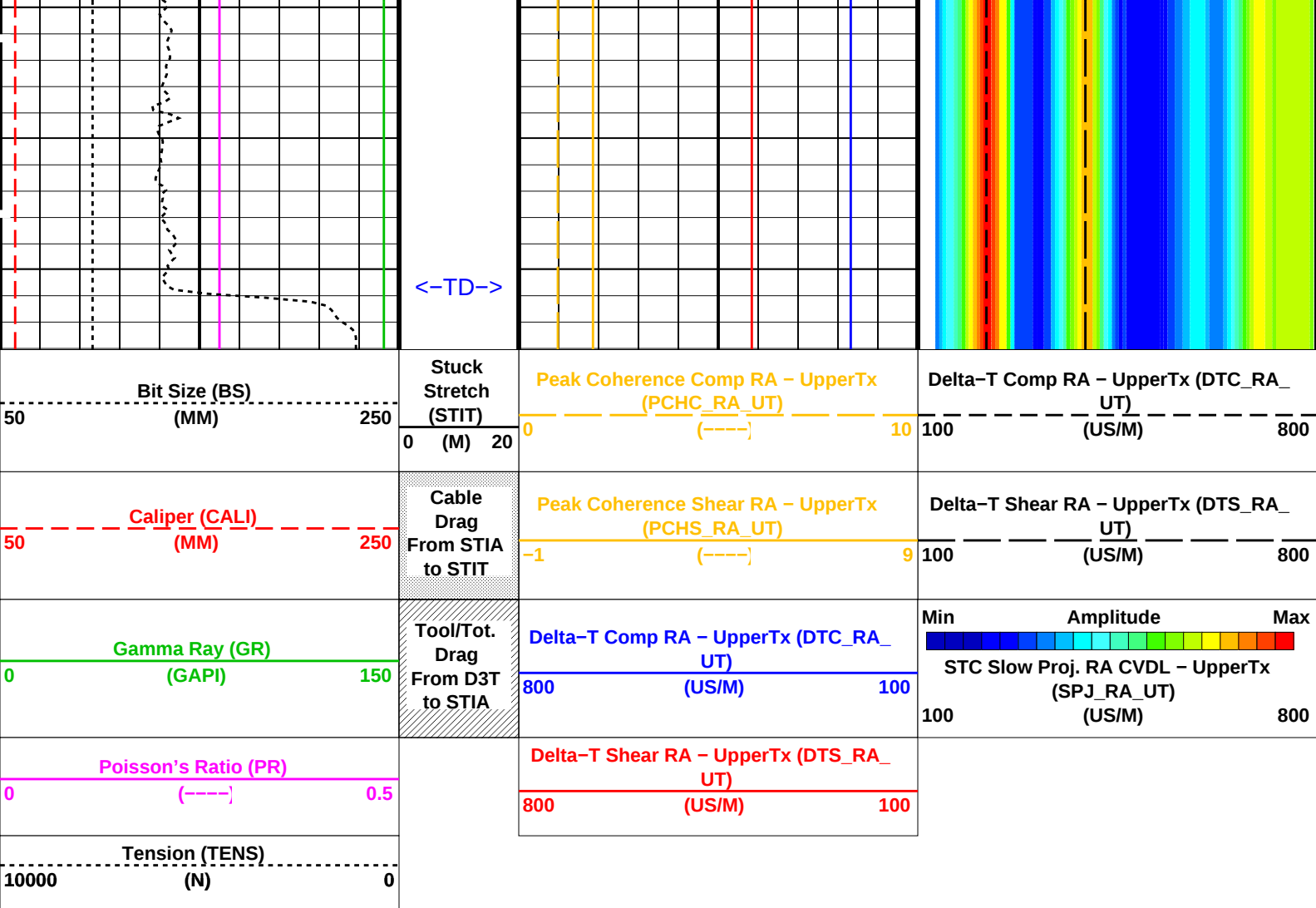
375

400

425

←FR_SONIC→





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
BHS	Borehole Status	OPEN
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
ISLT-B: iFlex Sonic Logging Tool		
BHS	Borehole Status	OPEN
COLL	Label Slowness Lower Limit - P & S Comp	131.234 US/M
COUL	Label Slowness Upper Limit - P & S Comp	590.551 US/M
DFT_IFLEX	Drilling Fluid Type	WATER
DTCS	Compressional Delta-T Source	DT
DTF	Delta-T Fluid	670.932 US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx
FILG	Label Fill Gap Control - P & S	COMP_SHEAR
GCSE	Generalized Caliper Selection	CALI
ITWI_UT	STC Integration Time Window - Upper Tx	160 US
LFC	Label Formation Character - P & S	COMP_FIRST
NWI	Number of Waveform Items	6
RSMN	Label Shear/Comp Minimum Ratio - P & S	1.4
RSMX	Label Shear/Comp Maximum Ratio - P & S	2.12
SBOF_UT	STC Search Band Offset - Upper Tx	190 US
SBWI_UT	STC Search Band Width - Upper Tx	860 US
SHLL	Label Slowness Lower Limit - P & S Shear	246.063 US/M
SHUL	Label Slowness Upper Limit - P & S Shear	787.402 US/M
SLL	STC Slowness Lower Limit	131.234 US/M
SPM_UT	STC Processing Mode - Upper Tx	RECEIVER
SSTE	STC Slowness Step	6.56168 US/M
SUL	STC Slowness Upper Limit	787.402 US/M
TLL_UT	STC Time Lower Limit - Upper Tx	120 US
TSTE	STC Time Step	40 US
TUL_UT	STC Time Upper Limit - Upper Tx	1340 US
TWID_UT	STC Time Width - Upper Tx	660 US
ILD-T-B: iFlex Litho Density Tool		

BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
PVN_ICEC	ICEC Computation Version	1.000	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
BARI_ITGN	Barite Mud Presence Flag	YES	
BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
NICO	Neutron Interference Correction Option	YES	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SOCN	Standoff Distance	0	IN
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth – Driller	444.80	M
TDL	Total Depth – Logger	445.80	M
System and Miscellaneous			
BS	Bit Size	96.000	MM
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.2	M
PP	Playback Processing	NORMAL	

Format: ISLT_STC_Upper_VDL_COLOR Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
iFlex Dual Formation Resistivity Tool Wellsite Calibration – Test Loop Gain Correction							
Master: 6-Mar-2010 4:30							
Test Loop Gain Correctio – 0	0	0.9956	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.011	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	-1.461	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	-0.9576	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	-2.034	N/A	N/A	N/A	N/A	V

iFlex Dual Formation Resistivity Tool Wellsite Calibration – Sonde Error Correction

Master: 6-Mar-2010 4:50

R Sonde Error Correction – 0	0	208.2	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 1	0	40.05	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 2	0	21.61	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 0	0	5.258	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 1	0	50.23	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 2	0	–98.73	N/A	N/A	N/A	N/A	MS/M
iFlex Dual Formation Resistivity Tool Wellsite Calibration – Mud Gain Correction							
Master: 6–Mar–2010 5:34							
Mud Gain – Coarse	1.000	1.118	N/A	N/A	N/A	N/A	
Mud Gain – Fine	1.000	0.9545	N/A	N/A	N/A	N/A	
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 14:44							
SS Window 1 Count Rate Bkg	1140	1236	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Bkg	1470	1563	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Bkg	760.0	806.6	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Bkg	770.0	829.8	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Bkg	79.00	80.18	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Bkg	94.00	96.29	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Bkg	280.0	274.5	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Bkg	146.0	145.6	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:07							
SS Window 1 Count Rate Water L	27000	24820	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water L	23000	20000	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water L	13400	11620	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water L	11800	10290	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water L	1210	1128	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water L	1600	1396	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water L	2100	1843	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water L	530.0	476.5	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:16							
SS Window 1 Count Rate Water H	23000	17170	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water H	22000	17390	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water H	12800	10220	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water H	11300	9089	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water H	950.0	740.9	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water H	1380	1127	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water H	2000	1634	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water H	500.0	435.2	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:25							
SS Window 1 Count Rate Magnesi	28000	25650	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Magnesi	24000	21330	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Magnesi	13500	11690	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Magnesi	11000	9573	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Magnesi	5400	4837	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Magnesi	6900	6031	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Magnesi	8500	7422	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Magnesi	1500	1321	N/A	N/A	N/A	N/A	CPS
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Background							
Master: 5–Mar–2010 22:15 Before: 29–Mar–2010 23:44							
Near Thermal Count Rate Master	27.00	26.42	26.00	N/A	N/A	N/A	CPS
Far Thermal Count Rate Master	10.00	10.11	10.96	N/A	N/A	N/A	CPS
Epithermal Count Rate Master B	27.00	27.07	25.65	N/A	N/A	N/A	CPS
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Plateau Setting							
Master: 5–Mar–2010 21:47							
Neutron Set Point Plat Set	2205	2217	N/A	N/A	N/A	N/A	V
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement							
Master: 5–Mar–2010 22:04							
Tank Temperature Tank Meas	20.00	16.50	N/A	N/A	N/A	N/A	DEGC
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement							
Master: 5–Mar–2010 22:06							
Near Thermal Count Rate Tank M	14600	13730	N/A	N/A	N/A	N/A	CPS
Far Thermal Count Rate Tank Me	5410	5025	N/A	N/A	N/A	N/A	CPS
Epithermal Count Rate Tank Mea	1570	1472	N/A	N/A	N/A	N/A	CPS

Primary Equipment:
iFlex Resistivity Mud Sensor
iFlex Resistivity Pressure Sub
iFlex Dual Formation Resistivity Sonde

IRMS – A 12
PSUB – A 12
IDRS – E 12

Auxiliary Equipment:

iFlex Dual Formation Resistivity Tool Wellsite Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V
0	0.9956				-1.461	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.014				-0.9576	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.011				-2.034	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)

Master: 6-Mar-2010 4:30

iFlex Dual Formation Resistivity Tool Wellsite Calibration						
Sonde Error Correction						
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M
0	208.2				5.258	
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)	-900.0 (Minimum)	0 (Nominal) 900.0 (Maximum)
1	40.05				50.23	
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)	-300.0 (Minimum)	0 (Nominal) 300.0 (Maximum)
2	21.61				-98.73	
		0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)	-150.0 (Minimum)	0 (Nominal) 150.0 (Maximum)

Master: 6-Mar-2010 4:50

iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Mud Gain Correction							
Phase	Mud Gain – Coarse		Value	Phase	Mud Gain – Fine		Value
Master			1.118	Master			0.9545
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 6–Mar–2010 5:34							

Master: 6-Mar-2010 5:34

iFlex Dual Formation Resistivity Tool Master Calibration						
Test Loop Gain Correction						
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V
0	0.9956				-1.461	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
1	1.014				-0.9576	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)
2	1.011				-2.034	
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal) 3.000 (Maximum)

Master: 6-Mar-2010 4:30

iFlex Dual Formation Resistivity Tool Master Calibration						
Sonde Error Correction						
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M
0	208.2				5.258	
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)	-900.0 (Minimum)	0 (Nominal) 900.0 (Maximum)
1	40.05				50.23	
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)	-300.0 (Minimum)	0 (Nominal) 300.0 (Maximum)

	(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
2	21.61			-98.73		
	0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)	-150.0 (Minimum)	0 (Nominal)	150.0 (Maximum)

Master: 6-Mar-2010 4:50

Master: 6-Mar-2010 4:50

iFlex Dual Formation Resistivity Tool Master Calibration							
Mud Gain Correction							
Phase	Mud Gain – Coarse		Value	Phase	Mud Gain – Fine		Value
Master			1.118	Master			0.9545
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 6–Mar–2010 5:34							

Master: 6-Mar-2010 5:34

iFlex Litho Density Tool / Equipment Identification			
Primary Equipment:			
Mechanical Control Sonde	IMCS – A	25	
Gamma Gamma Logging Source	GGLS – C	2434	
Powered Density Pad	IPDP – A	25	
Caliper Electronics Cartridge	ICEC – B	25	
Auxiliary Equipment:			

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Bkg CPS			Value	Phase	SS Window 2 Count Rate Bkg CPS			Value
Master				1236	Master				1563
	730.0 (Minimum)	1140 (Nominal)	1370 (Maximum)			990.0 (Minimum)	1470 (Nominal)	1720 (Maximum)	
Phase	SS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 1 Count Rate Bkg CPS			Value
Master				829.8	Master				80.18
	480.0 (Minimum)	770.0 (Nominal)	940.0 (Maximum)			47.00 (Minimum)	79.00 (Nominal)	99.00 (Maximum)	
Phase	LS Window 3 Count Rate Bkg CPS			Value	Phase	LS Window 4 Count Rate Bkg CPS			Value
Master				274.5	Master				145.6
	150.0 (Minimum)	280.0 (Nominal)	360.0 (Maximum)			83.00 (Minimum)	146.0 (Nominal)	190.0 (Maximum)	

Master: 24-Mar-2010 14:44

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Water Low PE Insert CPS			Value	Phase	SS Window 2 Count Rate Water Low PE Insert CPS			Value
Master				24820	Master				20000
	18000 (Minimum)	27000 (Nominal)	30000 (Maximum)			16000 (Minimum)	23000 (Nominal)	25000 (Maximum)	
Phase	SS Window 4 Count Rate Water Low PE Insert CPS			Value	Phase	LS Window 1 Count Rate Water Low PE Insert CPS			Value
Master				10290	Master				1128
	8600 (Minimum)	11800 (Nominal)	12900 (Maximum)			820.0 (Minimum)	1210 (Nominal)	1400 (Maximum)	
Phase	LS Window 3 Count Rate Water Low PE Insert CPS			Value	Phase	LS Window 4 Count Rate Water Low PE Insert CPS			Value
Master				1843	Master				476.5
	1450 (Minimum)	2100 (Nominal)	2400 (Maximum)			380.0 (Minimum)	530.0 (Nominal)	580.0 (Maximum)	

Master: 24-Mar-2010 15:07

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Water High PE Insert CPS			Value	Phase	SS Window 2 Count Rate Water High PE Insert CPS			Value
Master				17170	Master				17390
	16000 (Minimum)	23000 (Nominal)	26000 (Maximum)			15000 (Minimum)	22000 (Nominal)	24000 (Maximum)	
Phase	SS Window 4 Count Rate Water High PE Insert CPS			Value	Phase	LS Window 1 Count Rate Water High PE Insert CPS			Value
Master				9089	Master				740.9
	8200 (Minimum)	11300 (Nominal)	12400 (Maximum)			640.0 (Minimum)	950.0 (Nominal)	1100 (Maximum)	
Phase	LS Window 2 Count Rate Water High PE Insert CPS			Value	Phase	LS Window 3 Count Rate Water High PE Insert CPS			Value
Master				1127	Master				10220
	930.0 (Minimum)	1380 (Nominal)	1600 (Maximum)			9300 (Minimum)	12800 (Nominal)	13900 (Maximum)	

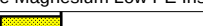
(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)		
SS Window 3 Count Rate Water High PE Insert CPSValue			LS Window 4 Count Rate Water High PE Insert CPSValue					
Master		1634	Master		435.2			
1350	2000	2300	360.0	500.0	550.0			
(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)			
Master: 24-Mar-2010 15:16								

iFlex Litho Density Tool Wellsite Calibration											
Detector Calibration											
SS Window 1 Count Rate Magnesium Low PE Insert CPSValue				SS Window 2 Count Rate Magnesium Low PE Insert CPSValue				SS Window 3 Count Rate Magnesium Low PE Insert CPSValue			
Master			25650	Master			21330	Master			11690
19000 (Minimum)	28000 (Nominal)	31000 (Maximum)		17000 (Minimum)	24000 (Nominal)	27000 (Maximum)		9900 (Minimum)	13500 (Nominal)	14700 (Maximum)	
SS Window 4 Count Rate Magnesium Low PE Insert CPSValue				LS Window 1 Count Rate Magnesium Low PE Insert CPSValue				LS Window 2 Count Rate Magnesium Low PE Insert CPSValue			
Master			9573	Master			4837	Master			6031
8000 (Minimum)	11000 (Nominal)	12000 (Maximum)		3600 (Minimum)	5400 (Nominal)	6200 (Maximum)		4600 (Minimum)	6900 (Nominal)	8000 (Maximum)	
SS Window 3 Count Rate Magnesium Low PE Insert CPSValue				LS Window 4 Count Rate Magnesium Low PE Insert CPSValue							
Master			7422	Master			1321				
5700 (Minimum)	8500 (Nominal)	9900 (Maximum)		1030 (Minimum)	1500 (Nominal)	1800 (Maximum)					
Master: 24-Mar-2010 15:25											

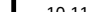
iFlex Litho Density Tool Master Calibration																	
Detector Calibration																	
Phase	SS Window 1 Count Rate Bkg CPS				Value	Phase	SS Window 2 Count Rate Bkg CPS				Value	Phase	SS Window 3 Count Rate Bkg CPS				Value
Master					1236	Master					1563	Master					806.6
	730.0 (Minimum)	1140 (Nominal)		1370 (Maximum)			990.0 (Minimum)	1470 (Nominal)		1720 (Maximum)			490.0 (Minimum)	760.0 (Nominal)		900.0 (Maximum)	
Phase	SS Window 4 Count Rate Bkg CPS				Value	Phase	LS Window 1 Count Rate Bkg CPS				Value	Phase	LS Window 2 Count Rate Bkg CPS				Value
Master					829.8	Master					80.18	Master					96.29
	480.0 (Minimum)	770.0 (Nominal)		940.0 (Maximum)			47.00 (Minimum)	79.00 (Nominal)		99.00 (Maximum)			54.00 (Minimum)	94.00 (Nominal)		121.0 (Maximum)	
Phase	LS Window 3 Count Rate Bkg CPS				Value	Phase	LS Window 4 Count Rate Bkg CPS				Value						
Master					274.5	Master					145.6						
	150.0 (Minimum)	280.0 (Nominal)		360.0 (Maximum)			83.00 (Minimum)	146.0 (Nominal)		190.0 (Maximum)							
Master: 24-Mar-2010 14:44																	

iFlex Litho Density Tool Master Calibration																	
Detector Calibration																	
SS Window 1 Count Rate Water Low PE Insert CPSValue				SS Window 2 Count Rate Water Low PE Insert CPSValue				SS Window 3 Count Rate Water Low PE Insert CPSValue									
Master				24820	Master				20000	Master				11620			
18000		27000		30000		16000		23000		25000		9800		13400		14500	
(Minimum)		(Nominal)		(Maximum)		(Minimum)		(Nominal)		(Maximum)		(Minimum)		(Nominal)		(Maximum)	
SS Window 4 Count Rate Water Low PE Insert CPSValue				LS Window 1 Count Rate Water Low PE Insert CPSValue				LS Window 2 Count Rate Water Low PE Insert CPSValue									
Master				10290	Master				1128	Master				1396			
8600		11800		12900		820.0		1210		1400		1050		1600		1800	
(Minimum)		(Nominal)		(Maximum)		(Minimum)		(Nominal)		(Maximum)		(Minimum)		(Nominal)		(Maximum)	
LS Window 3 Count Rate Water Low PE Insert CPSValue				LS Window 4 Count Rate Water Low PE Insert CPSValue													
Master				1843	Master							476.5					
1450		2100		2400		380.0						530.0		580.0			
(Minimum)		(Nominal)		(Maximum)		(Minimum)		(Nominal)		(Maximum)							
Master: 24-Mar-2010 15:07																	

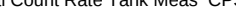
iFlex Litho Density Tool Master Calibration											
Detector Calibration											
SS Window 1 Count Rate Water High PE Insert CPSValue				SS Window 2 Count Rate Water High PE Insert CPSValue				SS Window 3 Count Rate Water High PE Insert CPSValue			
Master			17170	Master			17390	Master			10220
16000	23000	26000		15000	22000	24000		9300	12800	13900	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	
SS Window 4 Count Rate Water High PE Insert CPSValue				LS Window 1 Count Rate Water High PE Insert CPSValue				LS Window 2 Count Rate Water High PE Insert CPSValue			
Master			9089	Master			740.9	Master			1127
8200	11300	12400		640.0	950.0	1100		930.0	1380	1600	
(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)		(Minimum)	(Nominal)	(Maximum)	

iFlex Litho Density Tool Master Calibration																					
Detector Calibration																					
Window	1 Count Rate Magnesium Low PE Insert				CP Value	SS Value	Window	2 Count Rate Magnesium Low PE Insert				CP Value	SS Value	Window	3 Count Rate Magnesium Low PE Insert				CP Value	SS Value	
Master					25650		Master					21330		Master					11690		
	19000 (Minimum)	28000 (Nominal)	31000 (Maximum)				17000 (Minimum)	24000 (Nominal)	27000 (Maximum)				9900 (Minimum)	13500 (Nominal)	14700 (Maximum)						
Window	4 Count Rate Magnesium Low PE Insert				CP Value	LS Value	Window	1 Count Rate Magnesium Low PE Insert				CP Value	LS Value	Window	2 Count Rate Magnesium Low PE Insert				CP Value	LS Value	
Master					9573		Master					4837		Master					6031		
	8000 (Minimum)	11000 (Nominal)	12000 (Maximum)				3600 (Minimum)	5400 (Nominal)	6200 (Maximum)				4600 (Minimum)	6900 (Nominal)	8000 (Maximum)						
Window	3 Count Rate Magnesium Low PE Insert				CP Value	LS Value	Window	4 Count Rate Magnesium Low PE Insert				CP Value	LS Value								
Master					7422		Master					1321									
	5700 (Minimum)	8500 (Nominal)	9900 (Maximum)				1030 (Minimum)	1500 (Nominal)	1800 (Maximum)												
Master: 24-Mar-2010 15:25																					

iFlex Telemetry Gamma Neutron Tool / Equipment Identification			
Primary Equipment:			
Telemetry Gamma Neutron Sonde	ITNS – B	9	
Neutron Neutron Logging Source – contain	NNLS – B		
Telemetry Gamma Neutron Housing	ITNH – B	9	
PSP Supply and Telemetry Cartridge	PSTC – A		
PSP Telemetry Cartridge	PSC – ATS	9	
PSC 16.384MHz oscillator	PSC_ –		
Auxiliary Equipment:			

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration											
Background											
Phase	Thermal Count Rate	Master Bkgd CPS	Value	Phase	Thermal Count Rate	Master Bkgd CPS	Value	Phase	Thermal Count Rate	Master Bkgd CPS	Value
After			26.42	After			10.11	After			27.07
Master			26.42	Master			10.11	Master			27.07
Before			26.00	Before			10.96	Before			25.65
	20.00 (Minimum)	27.00 (Nominal)	40.00 (Maximum)		7.000 (Minimum)	10.00 (Nominal)	17.00 (Maximum)		20.00 (Minimum)	27.00 (Nominal)	40.00 (Maximum)
Master: 5-Mar-2010 22:15				Before: 29-Mar-2010 23:44							

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration									
Tank Measurement									
Phase	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Thermal Count Rate	Tank Meas	CPS	Value
Master				13730	Master				5025
	13400 (Minimum)	14600 (Nominal)	15000 (Maximum)			4900 (Minimum)	5200 (Maximum)		
Master: 5-Mar-2010 22:06									

iFlex Telemetry Gamma Neutron Tool Master Calibration											
Tank Measurement						Epithermal Measurement					
Phase	Year	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Year	Thermal Count Rate	Tank Meas	CPS	Value
Master					13730	Master					5025
		13400 (Minimum)	14600 (Nominal)	15700 (Maximum)				4900 (Minimum)	5410 (Nominal)	5900 (Maximum)	
Master: 5-Mar-2010 22:06											

Company: **Deer Lake Oil and Gas, Inc.**



Well: **Werner Hatch 1**
Field: **Deer Lake Basin**
Rig: **Logan Hydro 44**
Province: **Newfoundland**

MULTI-EXPRESS
SONIC LOG

ATTACHMENT # 11
Log – Dual Formation Resistivity & SP

Schlumberger	
Company:	Deer Lake Oil and Gas, Inc.
Well:	Werner Hatch 1
Field:	Deer Lake Basin
Rig:	Logan Hydro 44
	Province: Newfoundland

Deer Lake Oil and Gas, Inc.

Werner Hatch 1

Deer Lake Basin

Province: **Newfoundland**

MULTI-EXPRESS IDFR – RESISTIVITY LOG			
Rig: Logan Hydro 44 Field: Deer Lake Basin Location: Lat: 49.22 degN, Long: 57.34W Well: Werner Hatch 1 Company: Deer Lake Oil and Gas, Inc.			
LOCATION			
UTM Coordinates Easting: 474768E Northing: 54574498N		Elev.: K.B. 46.70 m G.L. 43.50 m D.F. 46.70 m	
Permanent Datum: _____ Log Measured From: Kelly Bushing _____ Drilling Measured From: Kelly Bushing _____		Elev.: 43.50 m 3.20 m above Perm. Datum	
API Serial No.	Latitude 49.22 N	Longitude 57.34 W	

Logan Hydro 44

Deer Lake Basin

Location: Lat: 49.22 degN, Long: 57.34W

Werner Hatch 1

Company: Deer Lake Oil and Gas, Inc.

LOCATION			
UTM Coordinates		Elev.:	K.B. 46.70 m
Easting: 474768E			G.L. 43.50 m
Northing: 54574498N			D.F. 46.70 m
Permanent Datum:	Ground Level	Elev.:	43.50 m
Log Measured From:	Kelly Bushing	3.20 m	above Perm. Datum
Drilling Measured From:	Kelly Bushing		
API Serial No.	Latitude 49.22 N	Longitude 57.34 W	

[illegible]

Logging Date	30-Mar-2010					
Run Number	Run 1					
Depth Driller	444.8 m					
Schlumberger Depth	445.8 m					
Bottom Log Interval	445.8 m					
Top Log Interval	104.5 m					
Casing Driller Size @ Depth	114.300 mm @ 101 m					
Casing Schlumberger	104.5 m					
Bit Size	96.000 mm					
Type Fluid In Hole	WBM					
Density	Viscosity		40 s			
Fluid Loss	PH					
Source Of Sample	Mud Pit					
RM @ Measured Temperature	0.400 ohm.m @ 10 degC					
RMF @ Measured Temperature	0.320 ohm.m @ 10 degC					
RMC @ Measured Temperature	0.480 ohm.m @ 10 degC					
Source RMF	RMC		Calculated			
RM @ MRT	RMF @ MRT		0.205 @ 40 0.164 @ 40			@
Maximum Recorded Temperatures	40 degC					
Circulation Stopped	Time		29-Mar-2010			22:30
Logger On Bottom	Time		30-Mar-2000			3:20
Unit Number	Location		6061			St.John's
Recorded By	L. Conway					
Witnessed By	W. Jacobs					

Logging Date					
Run Number					
Depth Driller					
Schlumberger Depth					
Bottom Log Interval					
Top Log Interval					
Casing Driller Size @ Depth			@		
Casing Schlumberger					
Bit Size					
Type Fluid In Hole					
Density		Viscosity			
Fluid Loss		PH			
Source Of Sample					
RM @ Measured Temperature			@		
RMF @ Measured Temperature			@		
RMC @ Measured Temperature			@		
Source RMF		RMC			
RM @ MRT		RMF @ MRT	@	@	
Maximum Recorded Temperatures					
Circulation Stopped		Time			
Logger On Bottom		Time			
Unit Number		Location			
Recorded By					
Witnessed By					

DEPTH SUMMARY LISTING	
-----------------------	--

Date Created: 30-MAR-2010 2:31:41

Depth Measuring Device

Tension Device

Logging Cable

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 M
Rig Up Length At Bottom:	0.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	0.30 M
Tool Zero Check At Surface:	0.10 M

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH PROCEDURES FOLLOWED
2. IDW USED FOR PRIMARY DEPTH CONTROL
3. Z-CHART USED AS SECONDARY DEPTH CONTROL
4. MAIN LOG CORRELATED TO DOWNLOG
5. CMTD 10 POINT CALIBRATION
6. IDW IN SERVICE DATE IS 30-MAR-2010

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES2

OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2

ISLF and IDFE run centralized with 3 x ICME's

ILE-I run above ITGN for eccentricization

ILDT run with 2 x AH-306 below and 1 x AH-306 above

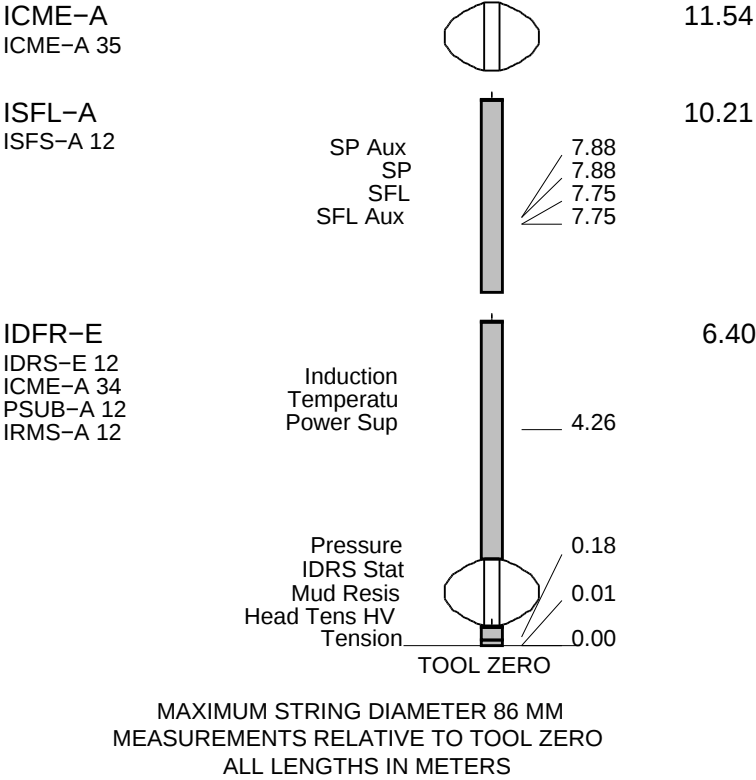
Radioactivity horizons confirmed with wellsite geologist

[illegible]

WITM-A PSC_16MHZ	SURFACE EQUIPMENT
---------------------	-------------------

DOWNHOLE EQUIPMENT			
LEH-QT			28.33
LEH-QT			
AH-307			27.44
ILE-I			27.17
ILE-I			
	Detail MT		
	TelStatus		
ITGN-B	PSTC CTEM		24.97
PSC-ATS 9	GR		24.49
PSTC-A	CCL		24.03
ITNH-B 9	Far		22.47
ITNS-B 9	Near Epi		22.32
NNLS-B	Status		
	Head Temp		21.85
AH-306			21.85
ILDT-B	ICEC Stat		20.70
ICEC-B 25	PEFL		19.14
IMCS-A 25	Caliper		19.03
GGLS-C 2434	LS		19.00
IPDP-A 25	PEFS		18.90
	SS		18.88
	IMCS Stat		18.24
AH-306			18.24
AH-306			17.76
ICME-A			17.28
ICME-A			
ISLT-B			15.94
ISLS-B			
ISLC-B	RX_ARRAY		14.32
ISLH-B			

Part Name	Part Number	Part Description	Part Price
LEH-QT			28.33
LEH-QT			
AH-307			27.44
ILE-I			27.17
ILE-I			
ITGN-B		Detail MT	
PSC-ATS 9		TelStatus	
PSTC-A		PSTC CTEM	
ITNH-B 9		GR	24.97
ITNS-B 9		CCL	24.49
NNLS-B		Far	24.03
		Near Epi	22.47
		Status	22.32
		Head Temp	21.85
AH-306			21.85
ILDT-B		ICEC Stat	
ICEC-B 25		PEFL	20.70
IMCS-A 25		Caliper	19.14
GGLS-C 2434		LS	19.03
IPDP-A 25		PEFS	19.00
		SS	18.90
		IMCS Stat	18.88
			18.24
AH-306			18.24
AH-306			17.76
ICME-A			17.28
ICME-A			
ISLT-B			15.94
ISLS-B			
ISLC-B			
ISLH-B			
		RX_ARRAY	14.32



Schlumberger

Main Pass
1:600

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

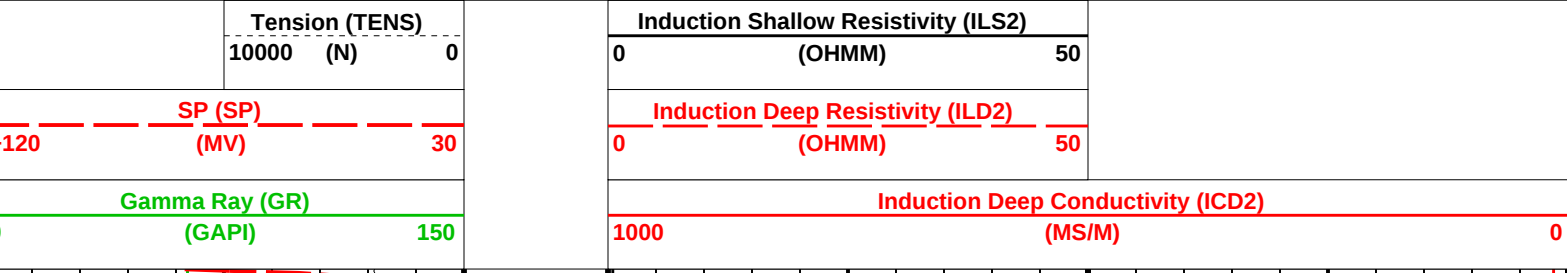
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

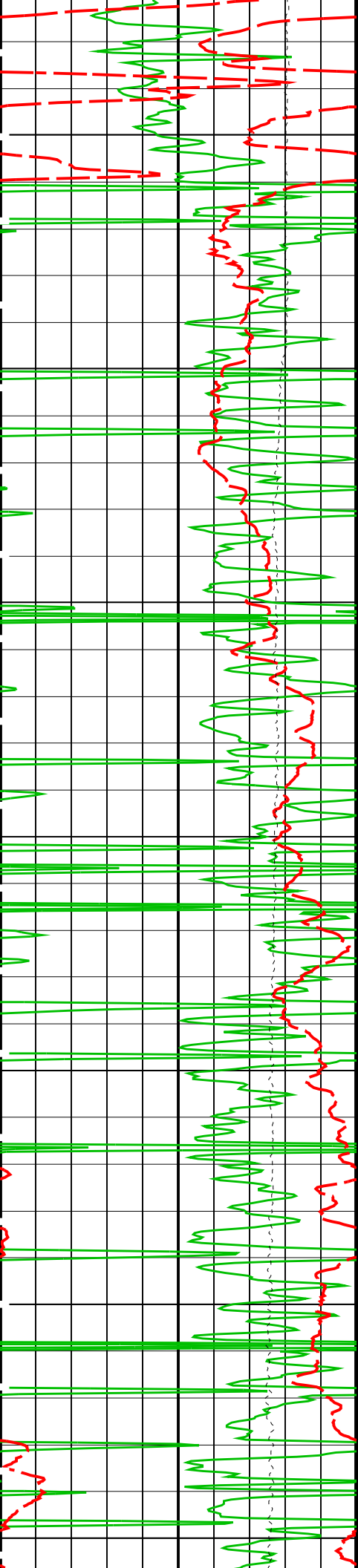
OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

PIP SUMMARY

Time Mark Every 60 S





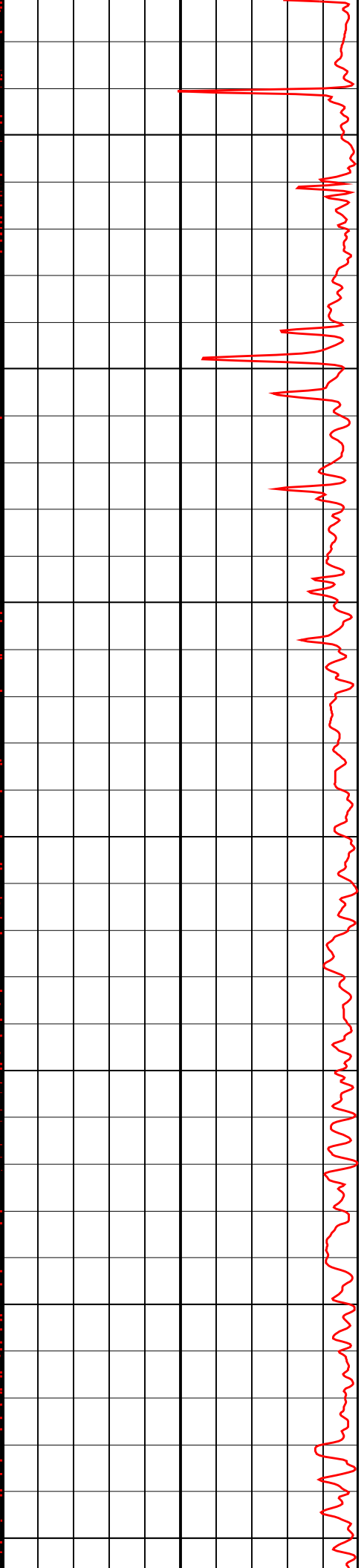
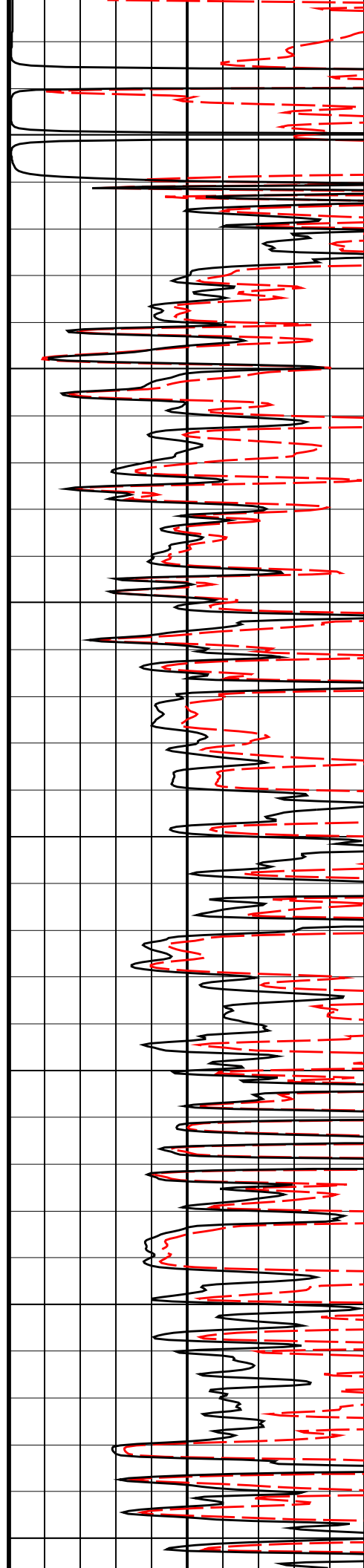
<-CD->

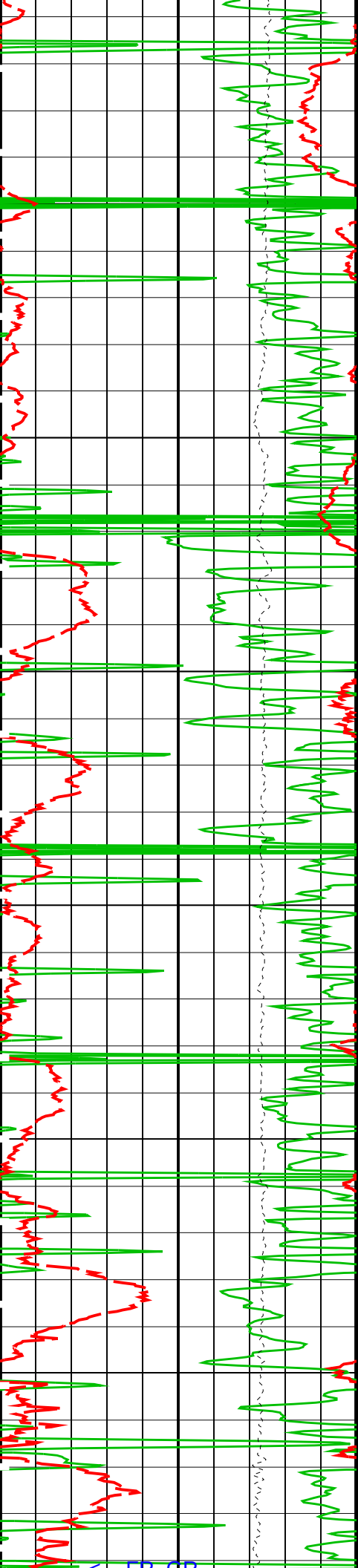
100

150

200

250

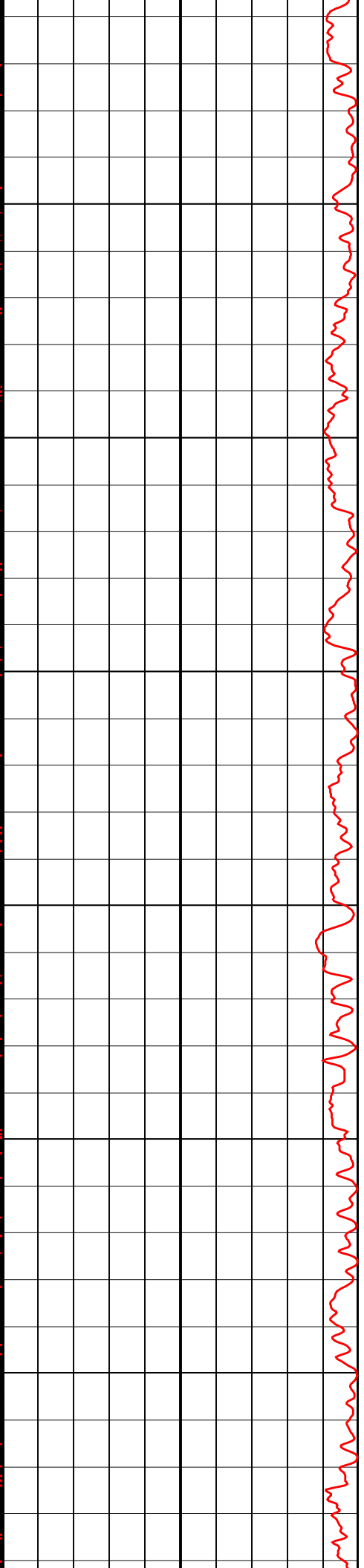
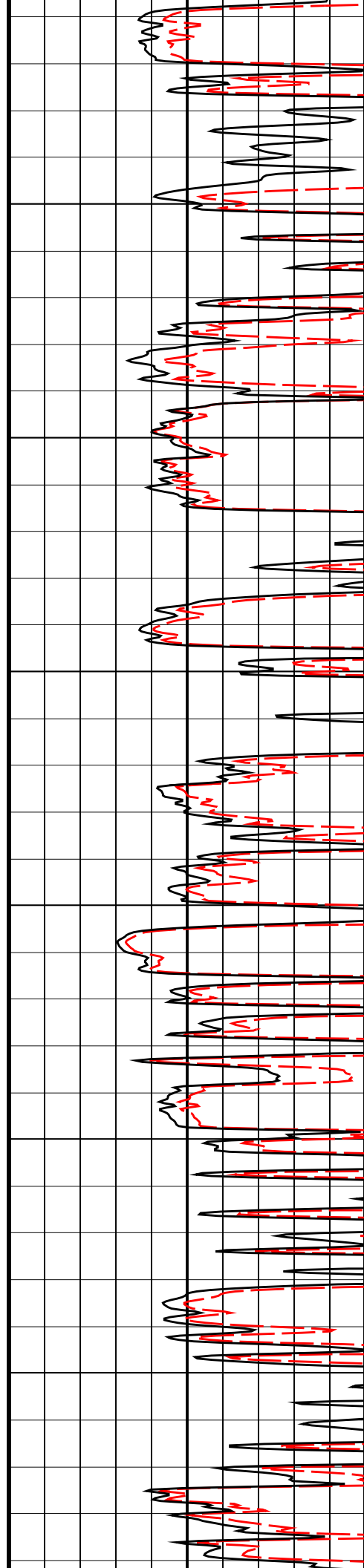


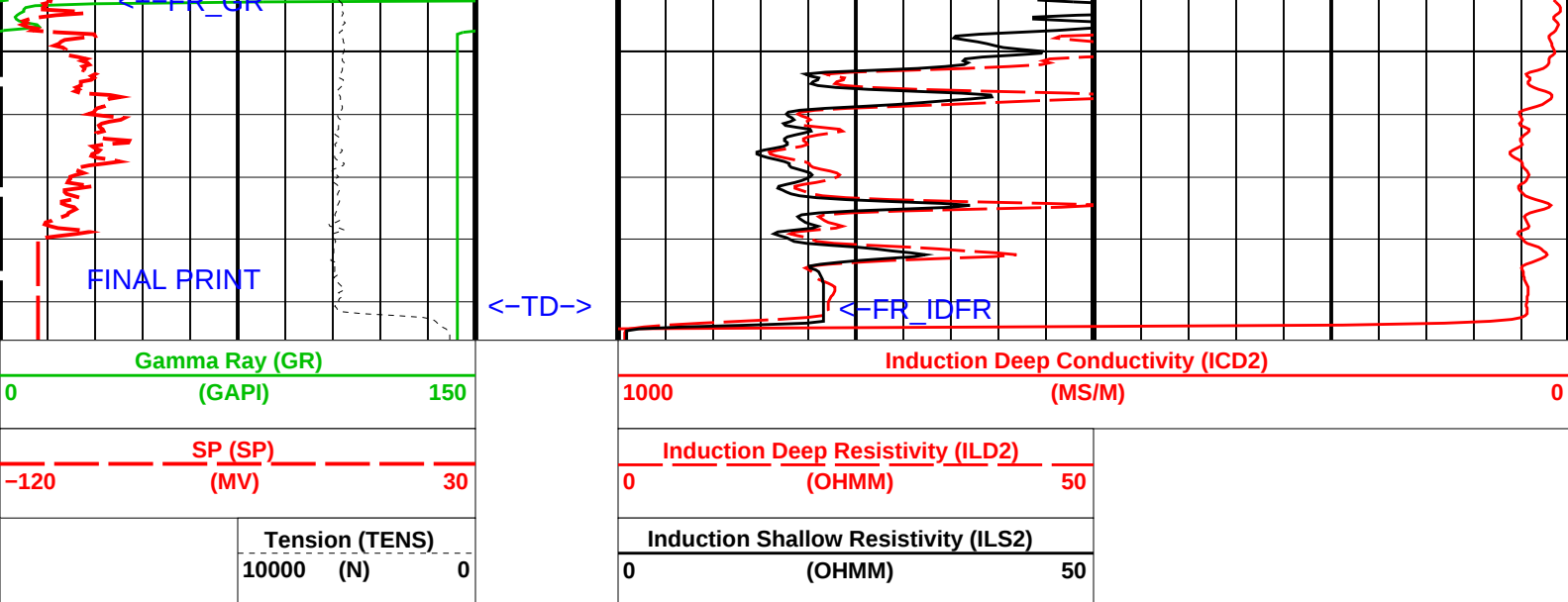


300

350

400





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
ABHV	Array Induction Borehole Correction Code Version Number	900
ABLV	Array Induction Basic Logs Code Version Number	223
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00
AIGS	Array Induction Select Akima Interpolation Gating	On
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1
AULV	Array Induction User Level Control	Normal
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR
BHT	Bottom Hole Temperature (used in calculations)	40 DEGC
DFT_IFLEX	Drilling Fluid Type	WATER
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
ISOD	Induction Standoff Outer Diameter	57.15 MM
SHT	Surface Hole Temperature	20 DEGC
SPNV	SP Next Value	0 MV
ISLT-B: iFlex Sonic Logging Tool		
BHT	Bottom Hole Temperature (used in calculations)	40 DEGC
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	20 DEGC
ILDLT-B: iFlex Litho Density Tool		
BHT	Bottom Hole Temperature (used in calculations)	40 DEGC
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	20 DEGC
ITGN-B: iFlex Telemetry Gamma Neutron Tool		
BARI_ITGN	Barite Mud Presence Flag	YES
BHT	Bottom Hole Temperature (used in calculations)	40 DEGC
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE

GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	YES	
NICO	Neutron Interference Correction Option		1.005	
PVN_ITGN	ITGN Computation Version			
SDAT	Standoff Data Source	SOCN		
SHT	Surface Hole Temperature	20	DEGC	
SOCN	Standoff Distance	0	IN	
TBHDS	Tool Borehole Diameter Source	CALI		
TBHTS	Tool Borehole Temperature Source	GTSE		
HOLEV: Integrated Hole/Cement Volume				
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC	
GCSE	Generalized Caliper Selection	CALI		
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG	
GGRD	Geothermal Gradient	0.018227	DC/M	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
SHT	Surface Hole Temperature	20	DEGC	
STI: Stuck Tool Indicator				
LBFR	Trigger for MAXIS First Reading Label	TDL		
STKT	STI Stuck Threshold	0.762	M	
TDD	Total Depth – Driller	444.80	M	
TDL	Total Depth – Logger	445.80	M	
System and Miscellaneous				
BS	Bit Size	96.000	MM	
DFD	Drilling Fluid Density	1170.00	K/M3	
DO	Depth Offset for Playback	-2.2	M	
FLEV	Fluid Level	0.00	M	
MST	Mud Sample Temperature	10.00	DEGC	
PP	Playback Processing	NORMAL		
TD	Total Depth	445.8	M	

Format: COND-AITH-4FT-CAN Vertical Scale: 1:600 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

Main Pass
1:240

MAXIS Field Log

Input DLIS Files

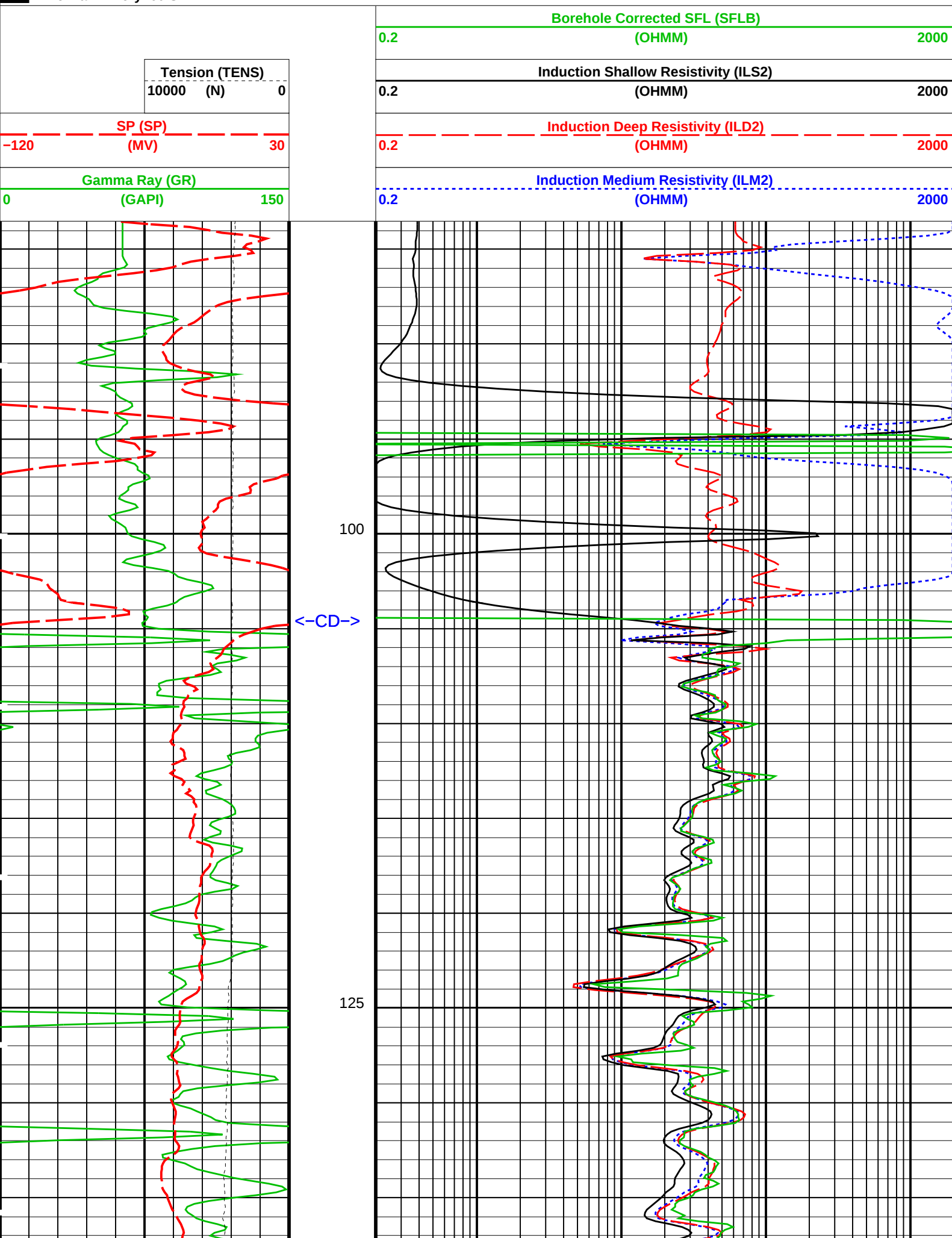
DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

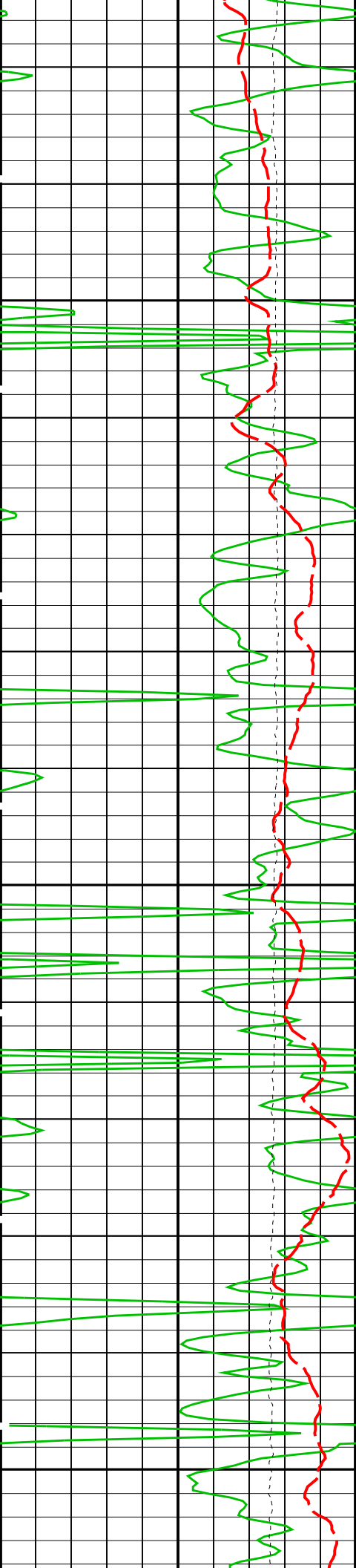
Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

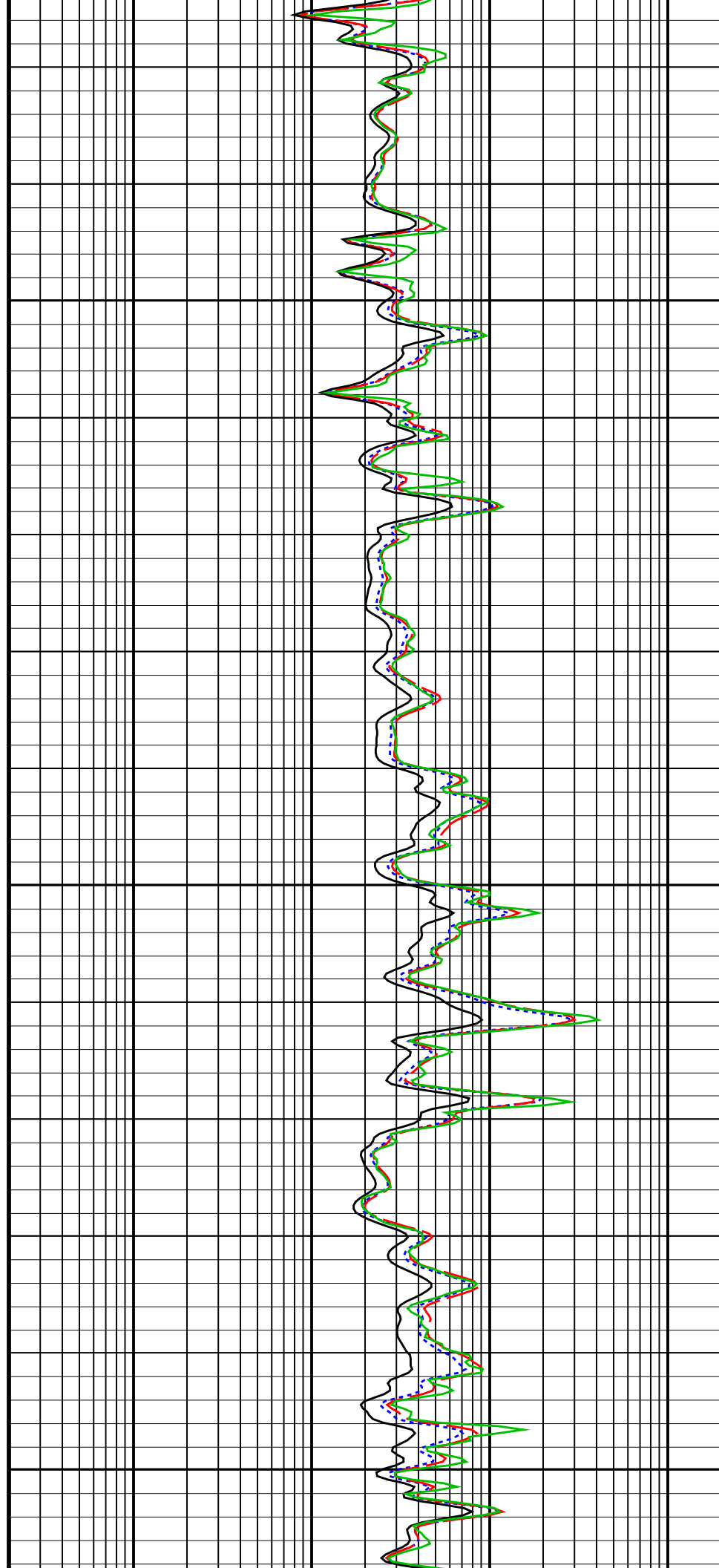


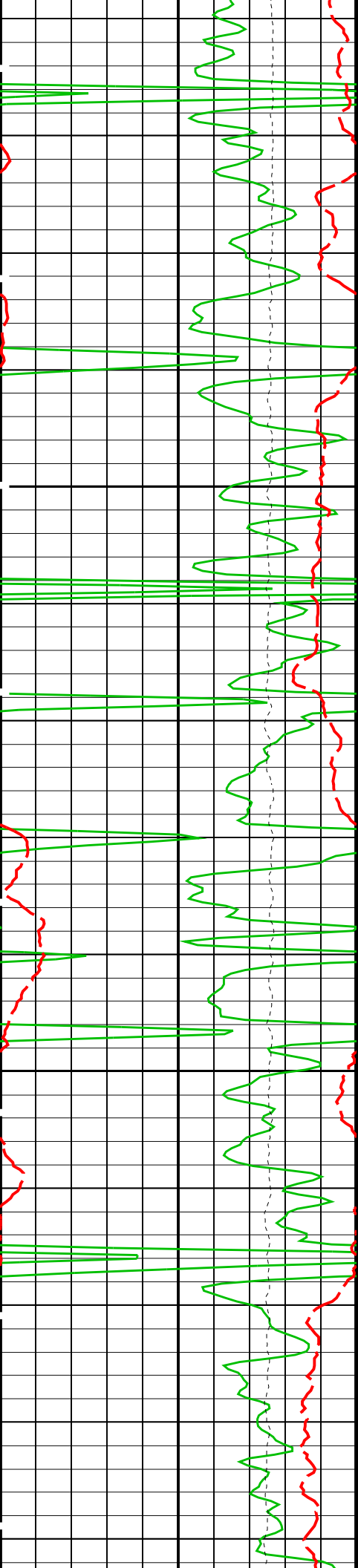


150

175

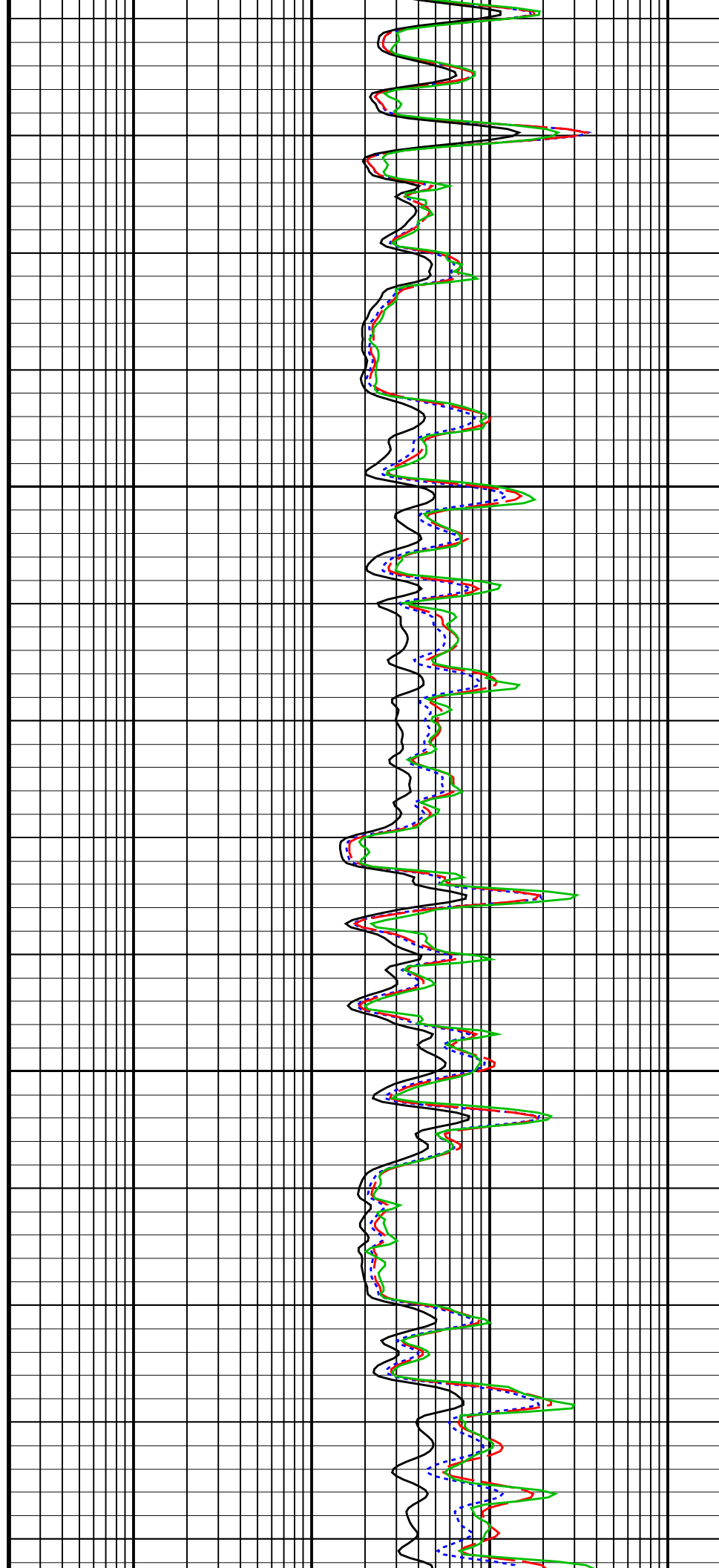
200

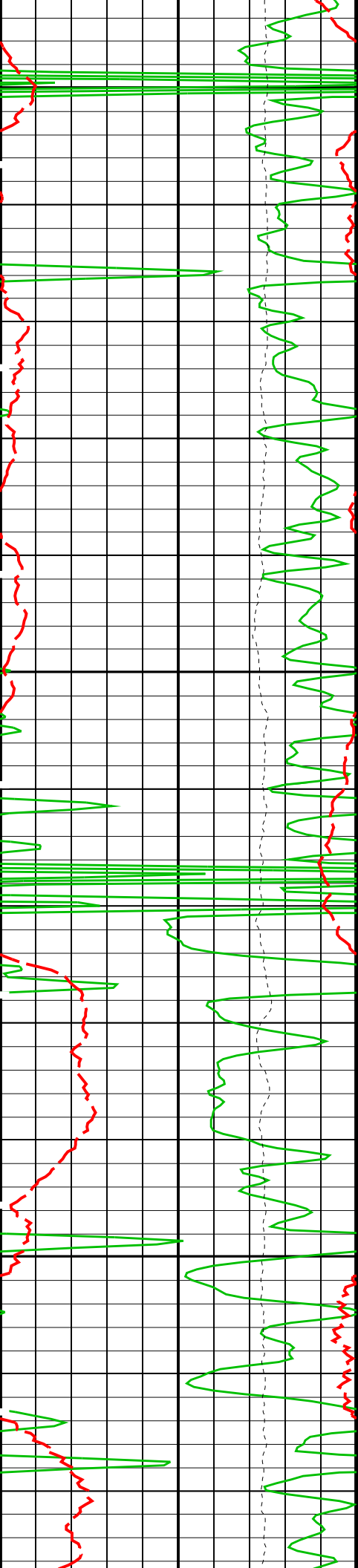




225

250

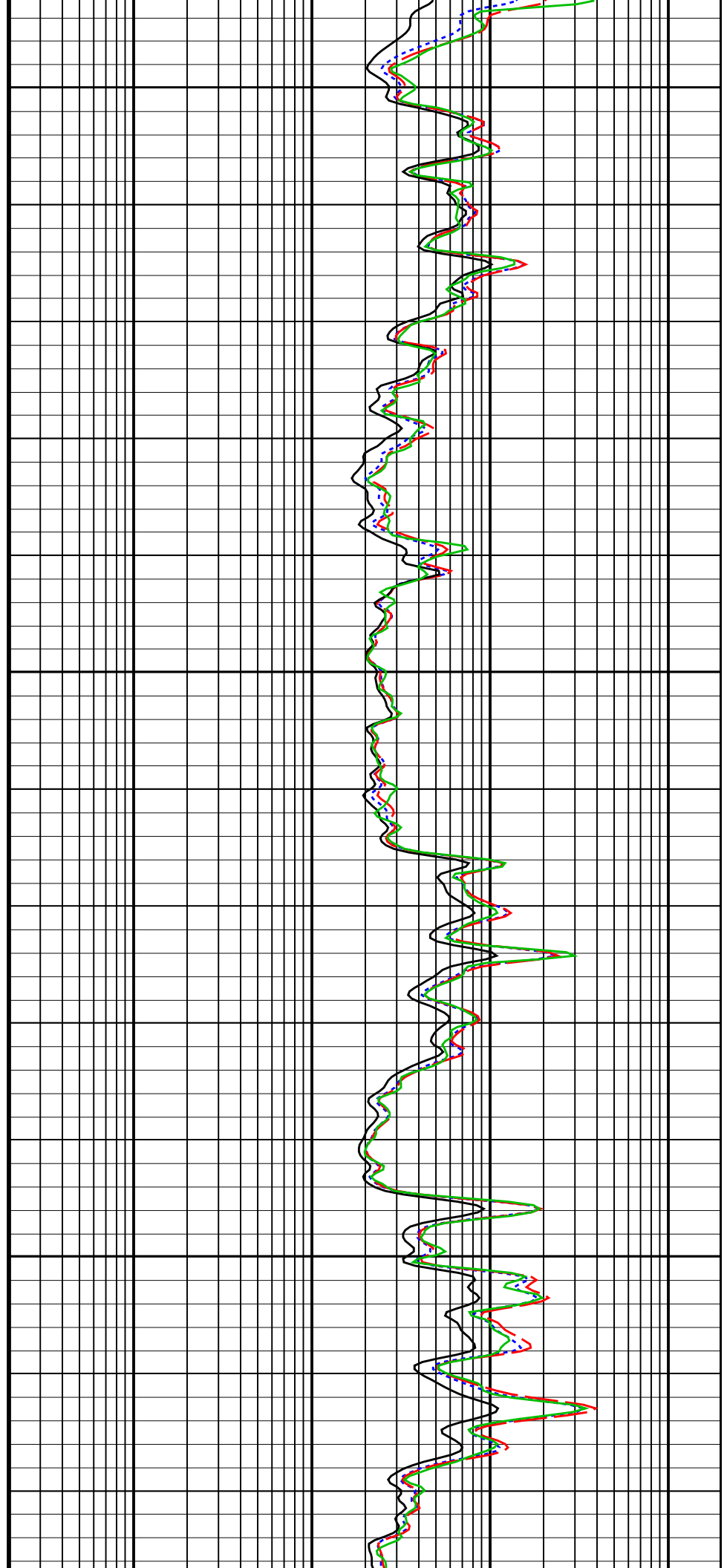


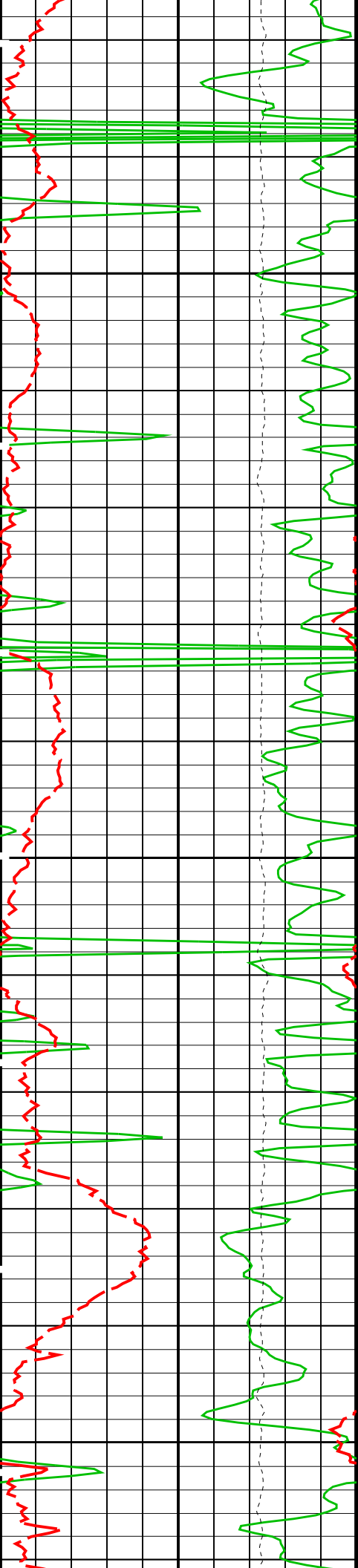


275

300

325

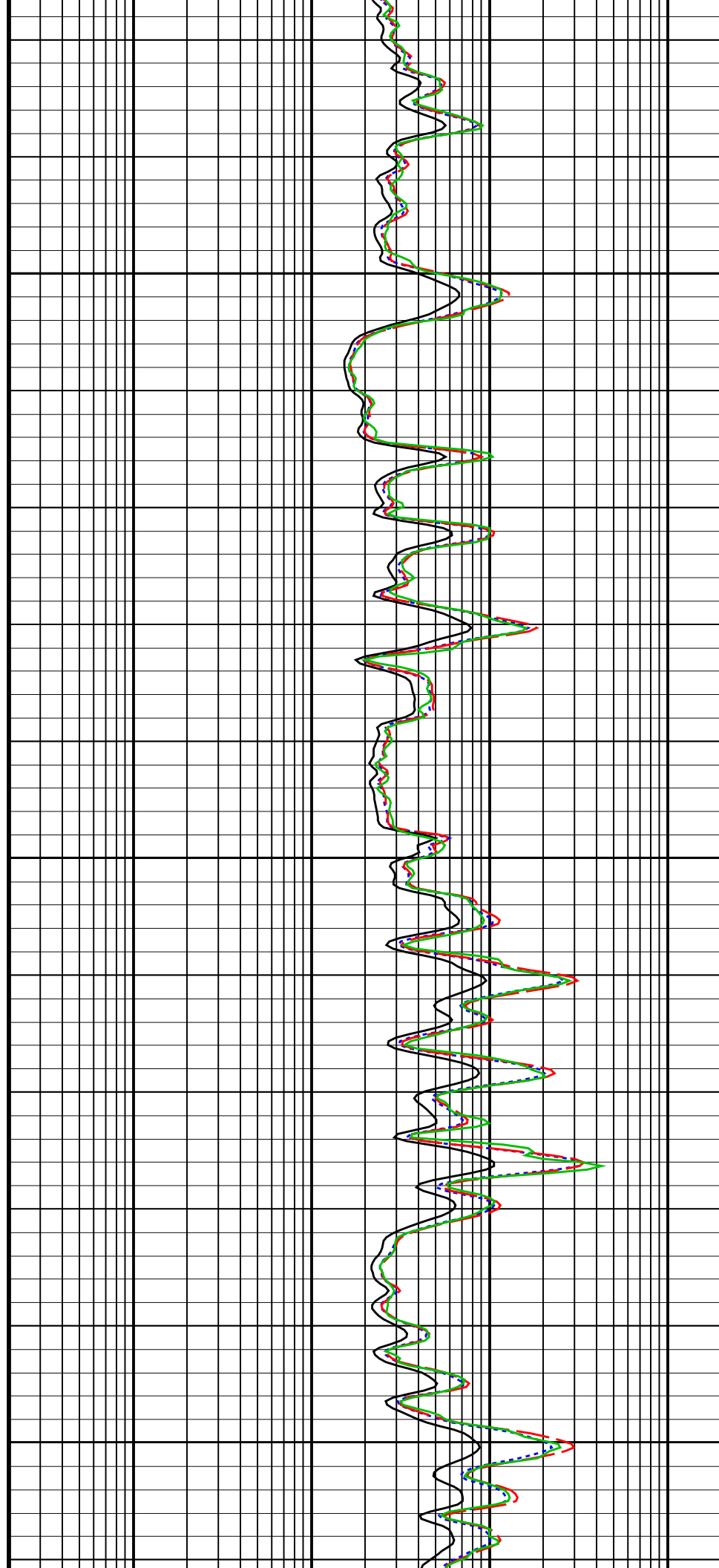


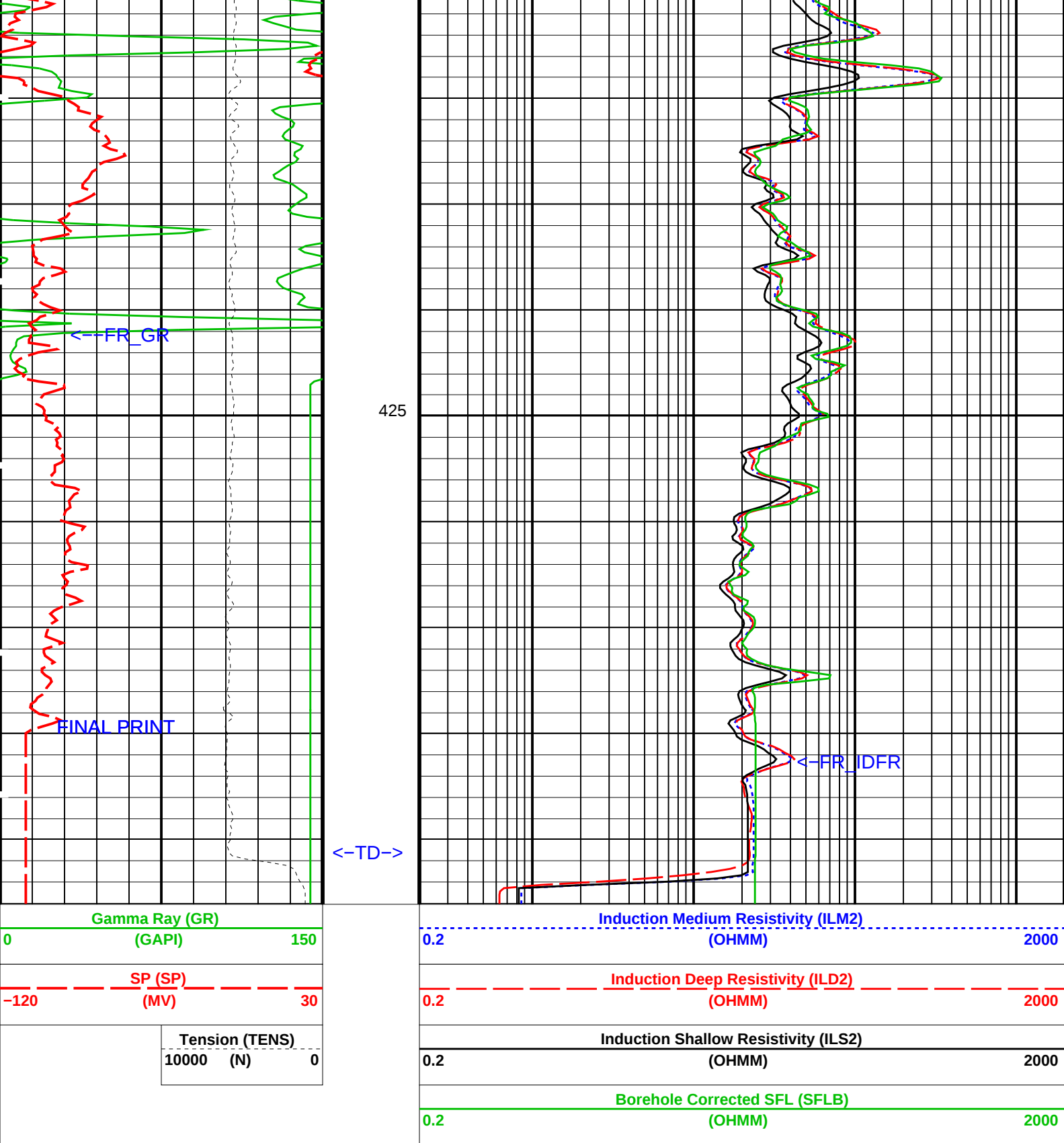


350

375

400





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
ABHV	Array Induction Borehole Correction Code Version Number	900
ABLV	Array Induction Basic Logs Code Version Number	223
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered
ADITM	Array Induction Desired Tool Mode	0x00_Log_MudAutoMode_000
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00
AIGS	Array Induction Select Akima Interpolation Gating	On

AIOS	Array Induction Select Akima Interpolation Gating	On	
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On	
ALNV	Array Induction Log Not Valid Flag	Log_Not_Valid-Default_Parameters	
ARTS	AIT Rt Selection (for ALLRES computation)	IDFR_TwoResADeep	
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00	
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1	
AULV	Array Induction User Level Control	Normal	
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R	
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
CRTM_IDFR	IDFR Current Tool Mode	0x00_Log_MudAutoMode_000	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_IDFR	IDFR Firmware Version	05.15.24	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISOD	Induction Standoff Outer Diameter	57.15	MM
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MFSZ_IDFR	IDFR Num Median Filter Elements	Disable	
PRTM_IDFR	IDFR Previous Tool Mode	0x00_Log_MudAutoMode_000	
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_IDFR	IDFR Computation Version	No Version Available	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
TEMPSM_IDFR	IDFR Temperature RTD Selection Mode	Automatic	
ISLT-B: iFlex Sonic Logging Tool			
ACSR	Array Cycle Skip Recovery	ON	
ADPS	A/D Conversion Phase Shift	NONE	
AMSG	Auxilliary Minimum Sliding Gate	180	US
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BRUL_FT	Baseline Removal Upper Limit - Far Tx	0	US
BRUL_LT	Baseline Removal Upper Limit - Lower Tx	0	US
BRUL_UT	Baseline Removal Upper Limit - Upper Tx	0	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	50	US
CDTS	C-Delta-T Shale	328.084	US/M
CLUSTER_INT	Clustering Interval	6.096	M
COLL	Label Slowness Lower Limit - P & S Comp	131.234	US/M
COUL	Label Slowness Upper Limit - P & S Comp	590.551	US/M
DDE1	Digitizing Delay 1 - Upper Tx	40	US
DDE2	Digitizing Delay 2 - Lower Tx	40	US
DETE	Detection Peak	E2	
DFAD	DFAD Computation Control	DSP	
DFAD_ATC	DFAD Automatic Threshold Control	ON	
DFAD_INTERVAL_MODE	Detection Interval Mode for first arrival	TRACK	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ISLT	ISLT Firmware Version	03.13.10	
DLSR	Depth Log Sampling Rate	TT1.5_WF6	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
DSIN	Digitizing Sample Interval	10	US
DTCM	Delta-T Computation Mode	FULL	
DTCS	Compressional Delta-T Source	DT	
DTF	Delta-T Fluid	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTMAX	Maximum Valid Value for DT	656.168	US/M
DTMIN	Minimum Valid Value for DT	131.234	US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx	
DWCO	Digitizing Word Count	256	
FILG	Label Fill Gap Control - P & S	COMP_SHEAR	
FIL LENG	STC Filter Length	21	
FULT	FTB Uplink Throughput for Sonic Tool	150	KB/S
GA1	Gain Control 1 - Upper Tx	HIGH	
GA2	Gain Control 2 - Lower Tx	HIGH	
GBHCL	Group BHC Limit	0.9	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GNFL	Group Near-Far Limit	0.9	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GSEPL	Group Separation Limit	65.6168	US/M
GSIZL	Group Size Limit	0.3	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HOLE_DIA	Hole Diameter	0	MM
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DT	

ITWI_FT	STC Integration Time Window – Far Tx	200	US
ITWI_LT	STC Integration Time Window – Lower Tx	160	US
ITWI_UT	STC Integration Time Window – Upper Tx	160	US
LFC	Label Formation Character – P & S	COMP_FIRST	
LPM_FT	Label Processing Mode – Far Tx	NONE	
LPM_LT	Label Processing Mode – Lower Tx	RECEIVER	
LPM_UT	Label Processing Mode – Upper Tx	RECEIVER	
MAHTR	Manual High Threshold Reference	40	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	STC_BHC_DT_256WF_1800FPH	
NFLG	STC Wave Normalization Flag	OFF	
NFLIM	Near–Far boundary distance	2.1336	M
NFPI_L5	Free Pipe amplitude for LT–R5	2500	
NFPI_U1	Free Pipe amplitude for UT–R1	2500	
NMSG	Near Minimum Sliding Gate	250	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
NWI	Number of Waveform Items	6	
POWER_SAVE_TEST	ISLT Powersave test Mode	OFF	
PROC_INT	Processing Interval	3.048	M
PSTP	PSTC Tool Position on CAN Bus	1	
R42R	R4 to R2 Sensitivity Ratio	0	DB/M
RACO	Ray Angle Compensation	0.0109547	M
RATE	Sonic Firing Rate	12.5	HZ
REJREP	Reject Repeated Transit Times	ALLOW	
RSMN	Label Shear/Comp Minimum Ratio – P & S	1.4	
RSMX	Label Shear/Comp Maximum Ratio – P & S	2.12	
SALL	Sonic Amplitude Lower Limit	20	
SBOF_FT	STC Search Band Offset – Far Tx	230	US
SBOF_LT	STC Search Band Offset – Lower Tx	190	US
SBOF_UT	STC Search Band Offset – Upper Tx	190	US
SBWI_FT	STC Search Band Width – Far Tx	1580	US
SBWI_LT	STC Search Band Width – Lower Tx	860	US
SBWI_UT	STC Search Band Width – Upper Tx	860	US
SDL	Standard Deviation Acceptance Limit	2.5	
SDTH	Switch Down Threshold	29490	
SEMTHR	STC Semblance Threshold	0.25	
SENSOR_DIA	Sensor Diameter	19.05	MM
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Allow/Disallow	ON	
SGCL	Sliding Gate Closing Delta–T	558	US/M
SGCW	Sliding Gate Closing Width	33	US
SGDT	Sliding Gate Delta–T	131	US/M
SGW	Sliding Gate Width	80	US
SHLL	Label Slowness Lower Limit – P & S Shear	246.063	US/M
SHORT_FRAME_MODE	ISLT Short Frame Mode	OFF	
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit – P & S Shear	787.402	US/M
SLEV	Signal Level for Threshold Control	5000	
SLL	STC Slowness Lower Limit	131.234	US/M
SNRLL	Signal–to–Noise Ratio Lower Limit	25	DB
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPM_FT	STC Processing Mode – Far Tx	NONE	
SPM_LT	STC Processing Mode – Lower Tx	RECEIVER	
SPM_UT	STC Processing Mode – Upper Tx	RECEIVER	
SPSO	Sonic Porosity Source	DTCO	
SSTE	STC Slowness Step	6.56168	US/M
STC_LCF	STC Low Cutoff Freq.	2000	HZ
STHR	Separation Threshold	32.8084	US/M
SUL	STC Slowness Upper Limit	787.402	US/M
SUTH	Switch Up Threshold	3276	
SWID_FT	STC Slowness Width – Far Tx	65.6168	US/M
SWID_LT	STC Slowness Width – Lower Tx	65.6168	US/M
SWID_UT	STC Slowness Width – Upper Tx	65.6168	US/M
T12_TTMAX	T12 TT Intercept Maximum	492.126	US/M
T12_TTMIN	T12 TT Intercept Minimum	–164.042	US/M
T3_TTMAX	T3 TT Intercept Maximum	656.168	US/M
T3_TTMIN	T3 TT Intercept Minimum	–164.042	US/M
TBF_FT	STC Time for Baseline Fill – Far Tx	0	US
TBF_LT	STC Time for Baseline Fill – Lower Tx	0	US
TBF_UT	STC Time for Baseline Fill – Upper Tx	0	US
TFSI	Filter Sample Interval	0.3048	M
TFWL	Filter Window Length	0.6096	M
TLL_FT	STC Time Lower Limit – Far Tx	280	US
TLL_LT	STC Time Lower Limit – Lower Tx	120	US
TLL_UT	STC Time Lower Limit – Upper Tx	120	US
TP_FRAME	ISLT Test Phase Frame	OFF	
TSTE	STC Time Step	40	US
TTPROC_ALGSEL	Algorithm Select	CLUSTER	
TUL_FT	STC Time Upper Limit – Far Tx	2590	US
TUL_LT	STC Time Upper Limit – Lower Tx	1340	US
TUL_UT	STC Time Upper Limit – Upper Tx	1340	US
TWID_FT	STC Time Width – Far Tx	1190	US
TWID_LT	STC Time Width – Lower Tx	660	US

TWID_UT	STC Time Width – Upper Tx	660	US
ULTR	Upper to Lower Tx Power Ratio	0	DB/M
VDLG	VDL Manual Gain	5	
VDM	VDL Display Mode	NONE	
WMAG	DFAD Waveform Magnifier	1	
WPS1	Waveform Plot Selection 1	R1	
WPS2	Waveform Plot Selection 2	R5	
ZCGW	Zero Crossing Gate Width	100	US
ZCTT	Option to compute Zero Crossing Transit Time	OFF	
ILDT-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2650	K/M3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
SHT	Surface Hole Temperature	20	DEGC
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
	Tractor Available in Tool String	YES	
BARI_ITGN	Barite Mud Presence Flag	YES	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
CSID	Casing Size I.D.	4.13386	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	06.15.15	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth – Driller	444.80	M
TDL	Total Depth – Logger	445.80	M

IDL	System and Miscellaneous	Total Depth - Logger	445.80	M
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	96.000	MM	
BSAL	Borehole Salinity	-50000.00	PPM	
CSIZ	Current Casing Size	114.300	MM	
CWEI	Casing Weight	40.00	KG/M	
DFD	Drilling Fluid Density	1170.00	K/M3	
DO	Depth Offset for Playback	-2.2	M	
FLEV	Fluid Level	0.00	M	
MST	Mud Sample Temperature	10.00	DEGC	
PBVSADP	Use alternate depth channel for playback	NO		
PP	Playback Processing	NORMAL		
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM	
RW	Resistivity of Connate Water	1.0000	OHMM	
TD	Total Depth	445.8	M	
TWS	Temperature of Connate Water Sample	37.78	DEGC	

Format: AITH-4FT-CAN Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41	446.5 M	319.9 M
---------	----------------------------	-------	----------	-------------------	---------	---------

OP System Version: 17C0-154

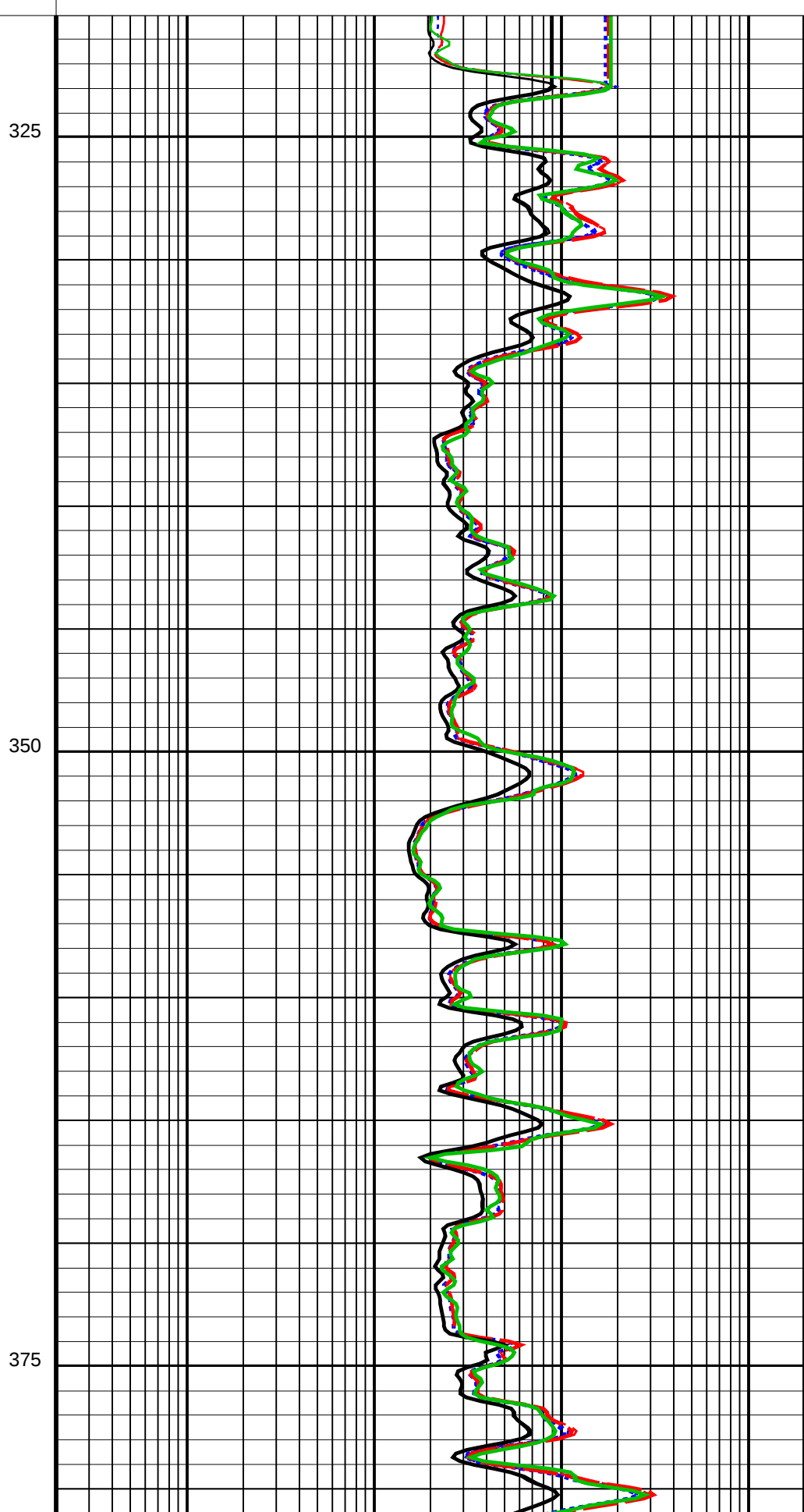
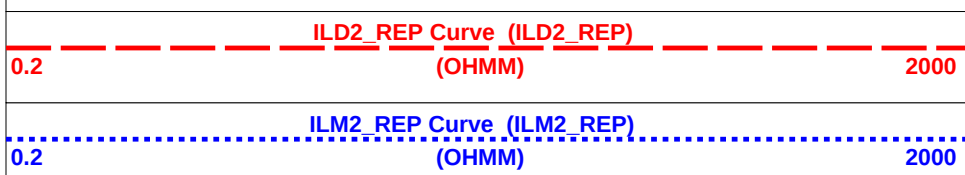
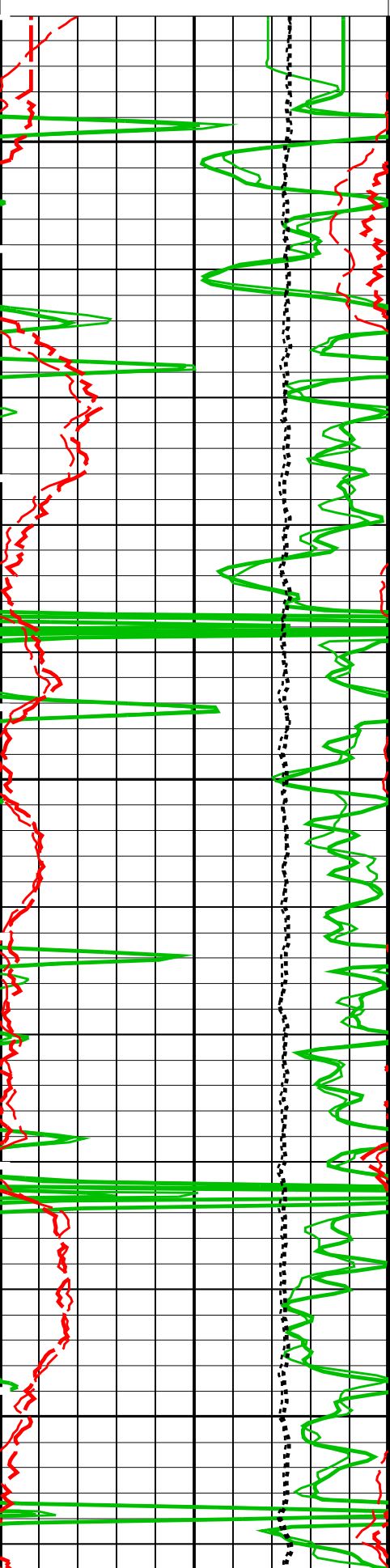
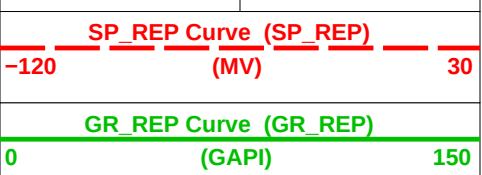
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

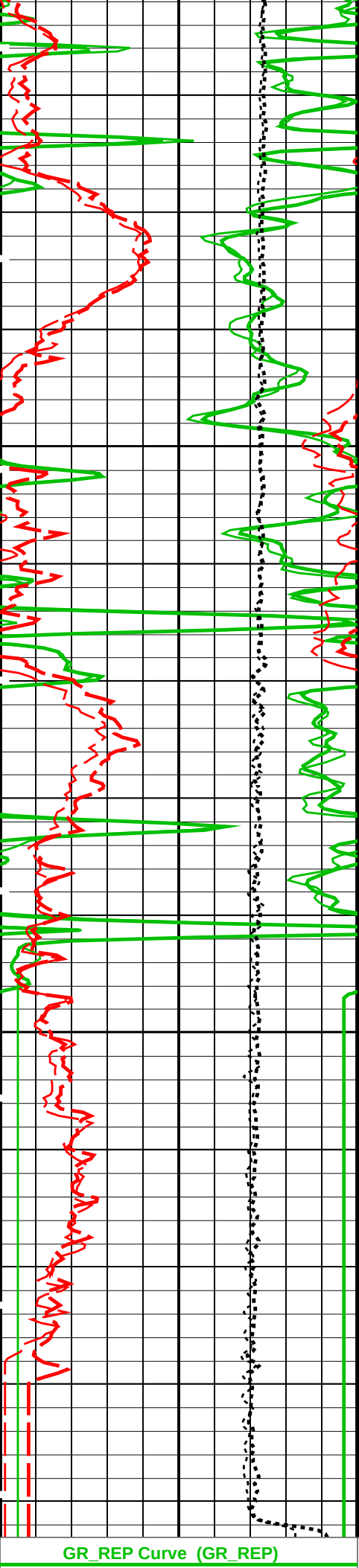
PIP SUMMARY

Time Mark Every 60 S

TENS_REP Curve
(TENS_REP)
10000 (N) 0

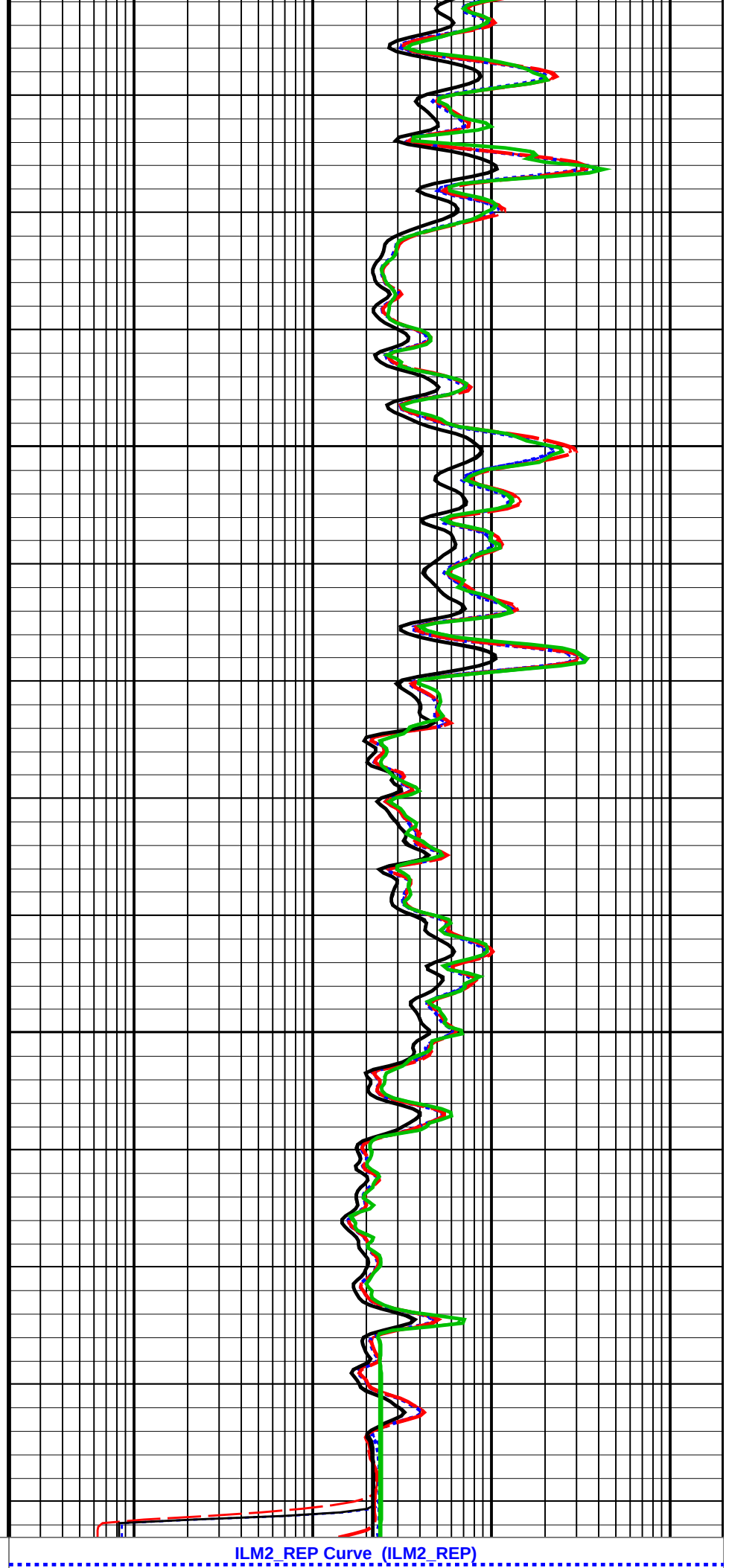
SFLB_IDFR_REP Curve (SFLB_REP)		
0.2	(OHMM)	2000
ILS2_REP Curve (ILS2_REP)		
0.2	(OHMM)	2000





400

425



(GAPI)		150	(OHMM)		2000
SP_REP Curve (SP_REP)			ILD2_REP Curve (ILD2_REP)		
-120	(MV)	30	0.2	(OHMM)	2000
TENS_REP Curve (TENS_REP)			ILS2_REP Curve (ILS2_REP)		
10000	(N)	0	0.2	(OHMM)	2000
			SFLB_IDFR_REP Curve (SFLB_REP)		
			0.2	(OHMM)	2000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
IDFR-E: iFlex Dual Formation Resistivity Tool			
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered	
ADITM	Array Induction Desired Tool Mode	0x00_Log_MudAutoMode_000	
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On	
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On	
ALNV	Array Induction Log Not Valid Flag	Log_Not_Valid-Default_Parameters	
ARTS	AIT Rt Selection (for ALLRES computation)	IDFR_TwoResADeep	
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00	
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1	
AULV	Array Induction User Level Control	Normal	
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R	
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
CRTM_IDFR	IDFR Current Tool Mode	0x00_Log_MudAutoMode_000	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_IDFR	IDFR Firmware Version	05.15.24	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISOD	Induction Standoff Outer Diameter	57.15	MM
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MFSZ_IDFR	IDFR Num Median Filter Elements	Disable	
PRTM_IDFR	IDFR Previous Tool Mode	0x00_Log_MudAutoMode_000	
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_IDFR	IDFR Computation Version	No Version Available	
RTCO	RTCO – Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
TEMPSM_IDFR	IDFR Temperature RTD Selection Mode	Automatic	
ISLT-B: iFlex Sonic Logging Tool			
ACSR	Array Cycle Skip Recovery	ON	
ADPS	A/D Conversion Phase Shift	NONE	
AMSG	Auxilliary Minimum Sliding Gate	180	US
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BRUL_FT	Baseline Removal Upper Limit – Far Tx	0	US
BRUL_LT	Baseline Removal Upper Limit – Lower Tx	0	US
BRUL_UT	Baseline Removal Upper Limit – Upper Tx	0	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	50	US
CDTS	C-Delta-T Shale	328.084	US/M
CLUSTER_INT	Clustering Interval	6.096	M
COLL	Label Slowness Lower Limit – P & S Comp	131.234	US/M
COUL	Label Slowness Upper Limit – P & S Comp	590.551	US/M
DDE1	Digitizing Delay 1 – Upper Tx	40	US
DDE2	Digitizing Delay 2 – Lower Tx	40	US
DETE	Detection Peak	E2	
DFAD	DFAD Computation Control	DSP	
DFAD_ATC	DFAD Automatic Threshold Control	ON	
DFAD_INTERVAL_MODE	Detection Interval Mode for first arrival	TRACK	

DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ISLT	ISLT Firmware Version	03.13.10	
DLSR	Depth Log Sampling Rate	TT1.5_WF6	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
DSIN	Digitizing Sample Interval	10	US
DTCM	Delta-T Computation Mode	FULL	
DTCS	Compressional Delta-T Source	DT	
DTF	Delta-T Fluid	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTMAX	Maximum Valid Value for DT	656.168	US/M
DTMIN	Minimum Valid Value for DT	131.234	US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx	
DWCO	Digitizing Word Count	256	
FILG	Label Fill Gap Control - P & S	COMP_SHEAR	
FIL LENG	STC Filter Length	21	
FULT	FTB Uplink Throughput for Sonic Tool	150	KB/S
GA1	Gain Control 1 - Upper Tx	HIGH	
GA2	Gain Control 2 - Lower Tx	HIGH	
GBHCL	Group BHC Limit	0.9	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GNFL	Group Near-Far Limit	0.9	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GSEPL	Group Separation Limit	65.6168	US/M
GSIZL	Group Size Limit	0.3	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HOLE_DIA	Hole Diameter	0	MM
ISSBAR	Barite Mud Switch	BARITE	
ITTS	Integrated Transit Time Source	DT	
ITWI_FT	STC Integration Time Window - Far Tx	200	US
ITWI_LT	STC Integration Time Window - Lower Tx	160	US
ITWI_UT	STC Integration Time Window - Upper Tx	160	US
LFC	Label Formation Character - P & S	COMP_FIRST	
LPM_FT	Label Processing Mode - Far Tx	NONE	
LPM_LT	Label Processing Mode - Lower Tx	RECEIVER	
LPM_UT	Label Processing Mode - Upper Tx	RECEIVER	
MAHTR	Manual High Threshold Reference	40	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	STC_BHC_DT_256WF_1800FPH	
NFLG	STC Wave Normalization Flag	OFF	
NFLIM	Near-Far boundary distance	2.1336	M
NFPI_L5	Free Pipe amplitude for LT-R5	2500	
NFPI_U1	Free Pipe amplitude for UT-R1	2500	
NMSG	Near Minimum Sliding Gate	140	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
NWI	Number of Waveform Items	6	
POWER_SAVE_TEST	ISLT Powersave test Mode	OFF	
PROC_INT	Processing Interval	3.048	M
PSTP	PSTC Tool Position on CAN Bus	1	
R42R	R4 to R2 Sensitivity Ratio	0	DB/M
RACO	Ray Angle Compensation	0.0109547	M
RATE	Sonic Firing Rate	12.5	HZ
REJREP	Reject Repeated Transit Times	ALLOW	
RSMN	Label Shear/Comp Minimum Ratio - P & S	1.4	
RSMX	Label Shear/Comp Maximum Ratio - P & S	2.12	
SALL	Sonic Amplitude Lower Limit	20	
SBOF_FT	STC Search Band Offset - Far Tx	230	US
SBOF_LT	STC Search Band Offset - Lower Tx	190	US
SBOF_UT	STC Search Band Offset - Upper Tx	190	US
SBWI_FT	STC Search Band Width - Far Tx	1580	US
SBWI_LT	STC Search Band Width - Lower Tx	860	US
SBWI_UT	STC Search Band Width - Upper Tx	860	US
SDL	Standard Deviation Acceptance Limit	2.5	
SDTH	Switch Down Threshold	29490	
SEMTHR	STC Semblance Threshold	0.25	
SENSOR_DIA	Sensor Diameter	19.05	MM
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Allow/Disallow	ON	
SGCL	Sliding Gate Closing Delta-T	558	US/M
SGCW	Sliding Gate Closing Width	33	US
SGDT	Sliding Gate Delta-T	131	US/M
SGW	Sliding Gate Width	80	US
SHLL	Label Slowness Lower Limit - P & S Shear	246.063	US/M
SHORT_FRAME_MODE	ISLT Short Frame Mode	OFF	
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit - P & S Shear	787.402	US/M
SLEV	Signal Level for Threshold Control	5000	
SLL	STC Slowness Lower Limit	131.234	US/M
SNRLL	Signal-to-Noise Ratio Lower Limit	25	DB
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPM_FT	STC Processing Mode - Far Tx	NONE	
SPM_LT	STC Processing Mode - Lower Tx	RECEIVER	

SPM_LT	STC Processing Mode – Lower Tx	RECEIVER	
SPM_UT	STC Processing Mode – Upper Tx	RECEIVER	
SPSO	Sonic Porosity Source	DTCO	
SSTE	STC Slowness Step	6.56168	US/M
STC_LCF	STC Low Cutoff Freq.	2000	HZ
STHR	Separation Threshold	32.8084	US/M
SUL	STC Slowness Upper Limit	787.402	US/M
SUTH	Switch Up Threshold	3276	
SWID_FT	STC Slowness Width – Far Tx	65.6168	US/M
SWID_LT	STC Slowness Width – Lower Tx	65.6168	US/M
SWID_UT	STC Slowness Width – Upper Tx	65.6168	US/M
T12_TTMAX	T12 TT Intercept Maximum	492.126	US/M
T12_TTMIN	T12 TT Intercept Minimum	-164.042	US/M
T3_TTMAX	T3 TT Intercept Maximum	656.168	US/M
T3_TTMIN	T3 TT Intercept Minimum	-164.042	US/M
TBF_FT	STC Time for Baseline Fill – Far Tx	0	US
TBF_LT	STC Time for Baseline Fill – Lower Tx	0	US
TBF_UT	STC Time for Baseline Fill – Upper Tx	0	US
TFSI	Filter Sample Interval	0.3048	M
TFWL	Filter Window Length	0.6096	M
TLL_FT	STC Time Lower Limit – Far Tx	280	US
TLL_LT	STC Time Lower Limit – Lower Tx	120	US
TLL_UT	STC Time Lower Limit – Upper Tx	120	US
TP_FRAME	ISLT Test Phase Frame	OFF	
TSTE	STC Time Step	40	US
TTPROC_ALGSEL	Algorithm Select	CLUSTER	
TUL_FT	STC Time Upper Limit – Far Tx	2590	US
TUL_LT	STC Time Upper Limit – Lower Tx	1340	US
TUL_UT	STC Time Upper Limit – Upper Tx	1340	US
TWID_FT	STC Time Width – Far Tx	1190	US
TWID_LT	STC Time Width – Lower Tx	660	US
TWID_UT	STC Time Width – Upper Tx	660	US
ULTR	Upper to Lower Tx Power Ratio	0	DB/M
VDLG	VDL Manual Gain	5	
VDM	VDL Display Mode	NONE	
WMAG	DFAD Waveform Magnifier	1	
WPS1	Waveform Plot Selection 1	R1	
WPS2	Waveform Plot Selection 2	R5	
ZCGW	Zero Crossing Gate Width	100	US
ZCTT	Option to compute Zero Crossing Transit Time	OFF	
ILDT-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2650	K/M3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
SHT	Surface Hole Temperature	20	DEGC
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
	Tractor Available in Tool String	YES	
BARI_ITGN	Barite Mud Presence Flag	YES	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
CSID	Casing Size I.D.	4.13386	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	06.15.15	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	

MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	444.80	M
TDL	Total Depth - Logger	445.80	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	96.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	114.300	MM
CWEI	Casing Weight	40.00	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	10.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	445.8	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: AITH-4FT-CAN_REP Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 15:41

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41
---------	----------------------------	-------	----------	-------------------

Schlumberger

High Resolution Pass
1:120

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

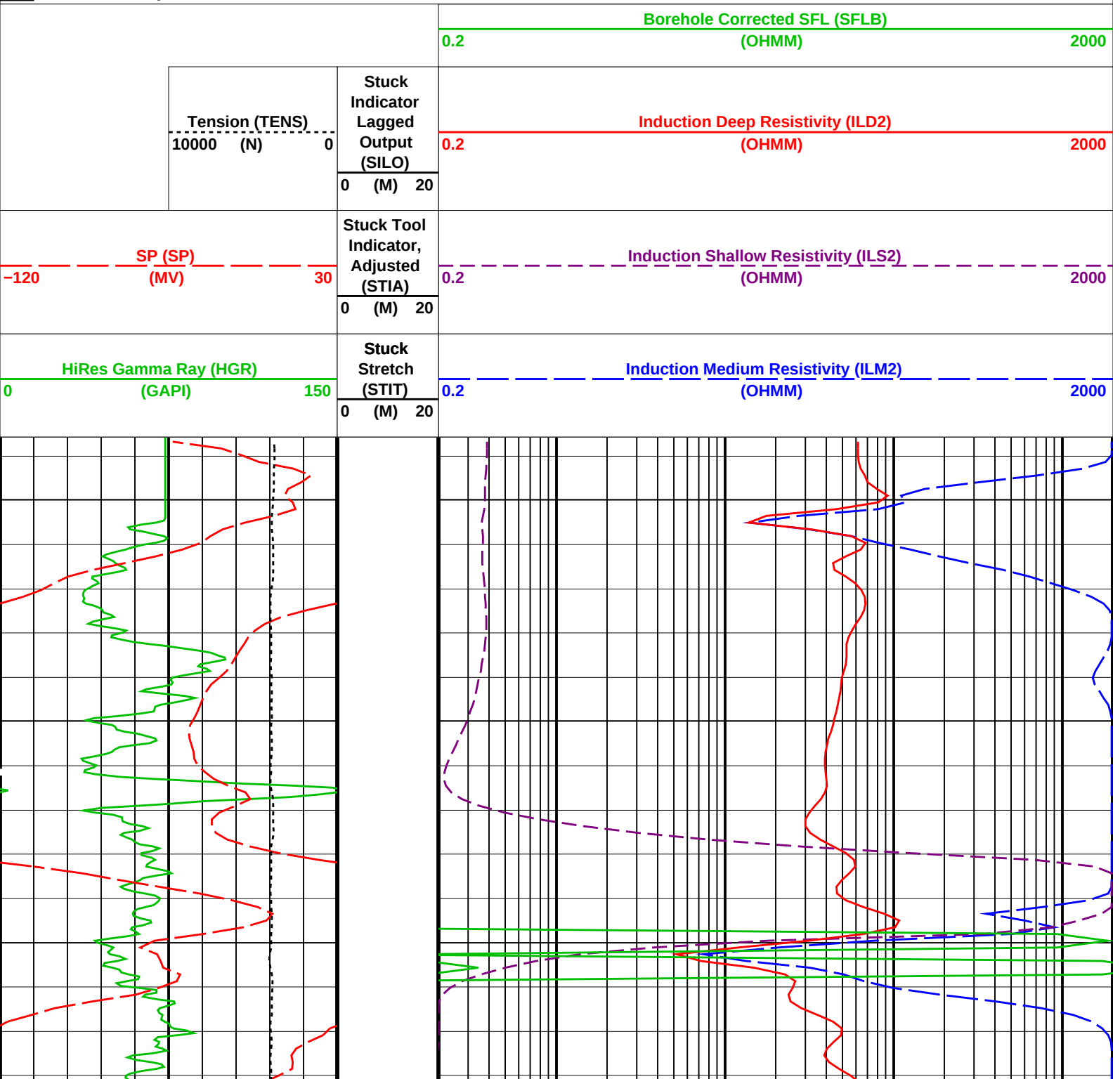
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

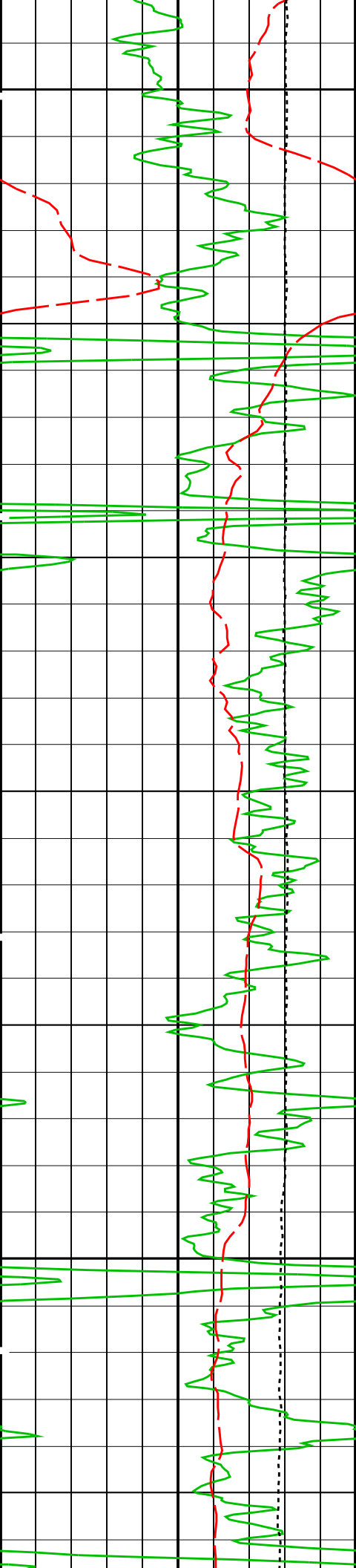
OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

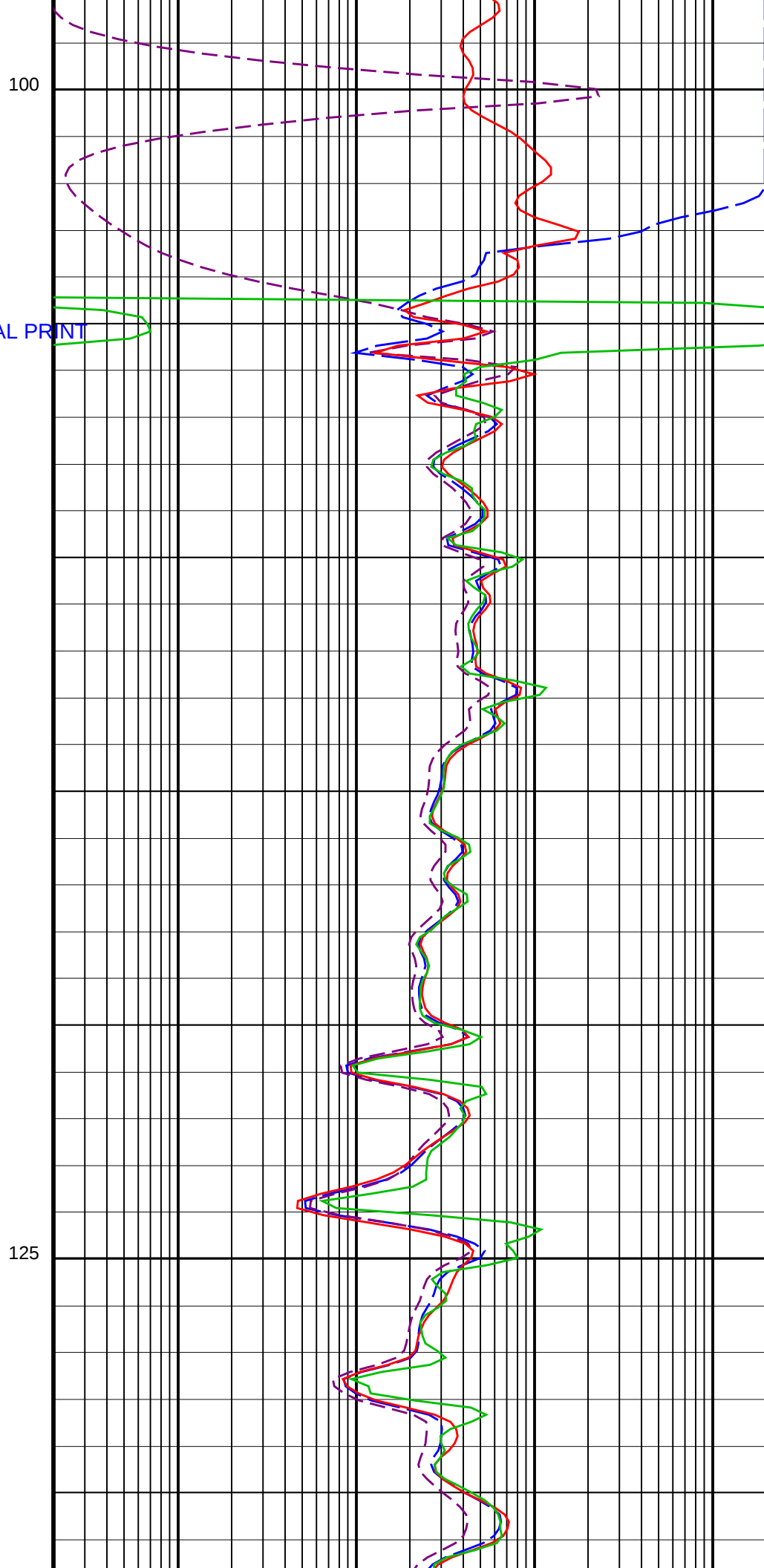
PIP SUMMARY

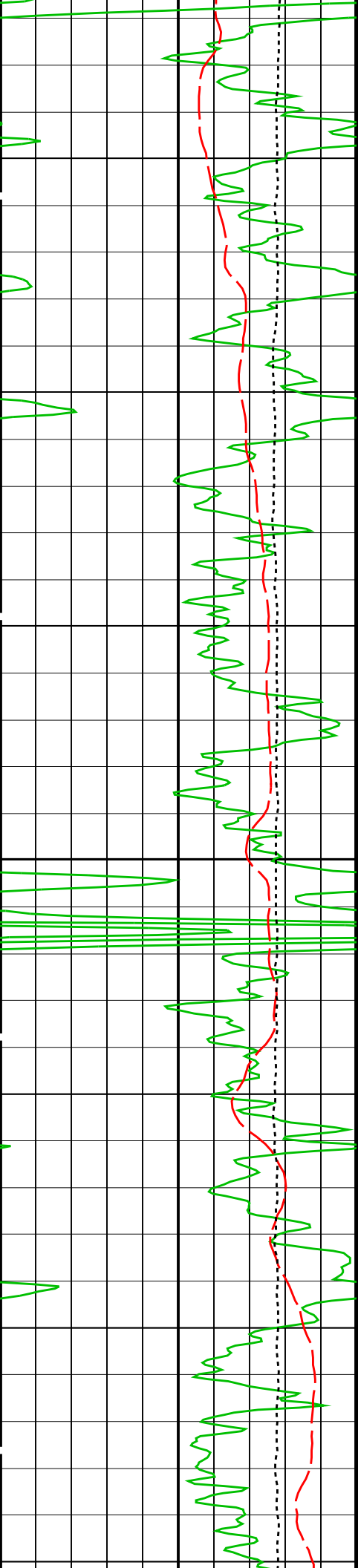
Time Mark Every 60 S



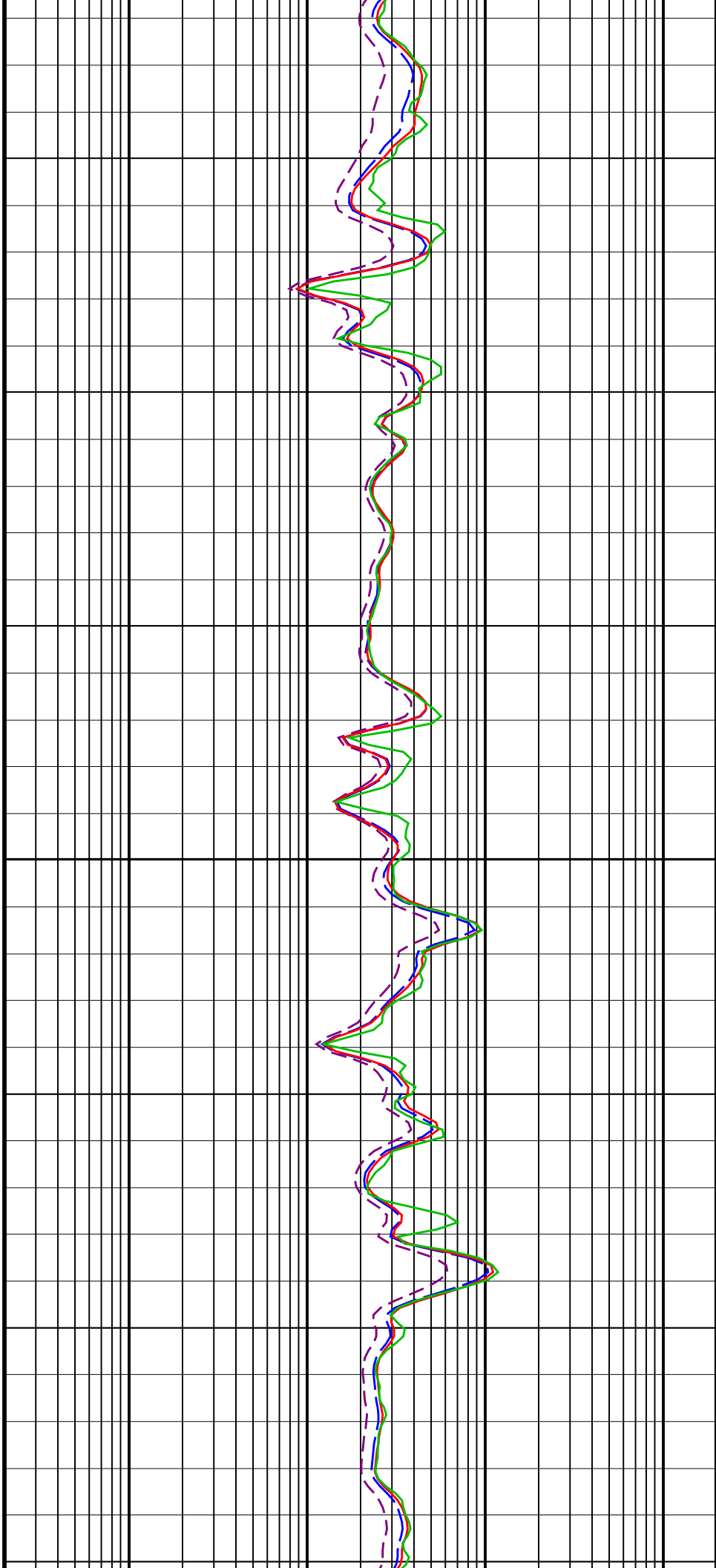


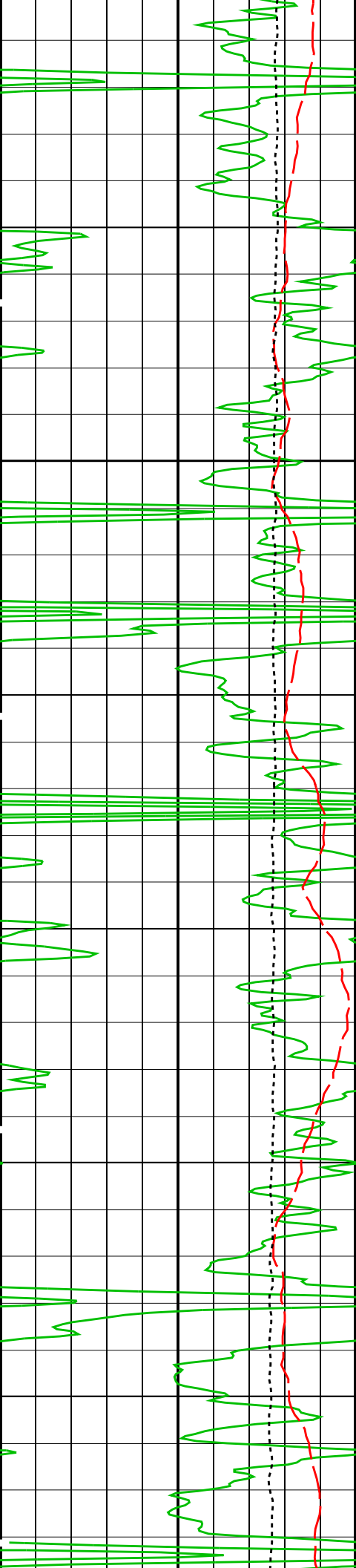
FINAL PRINT



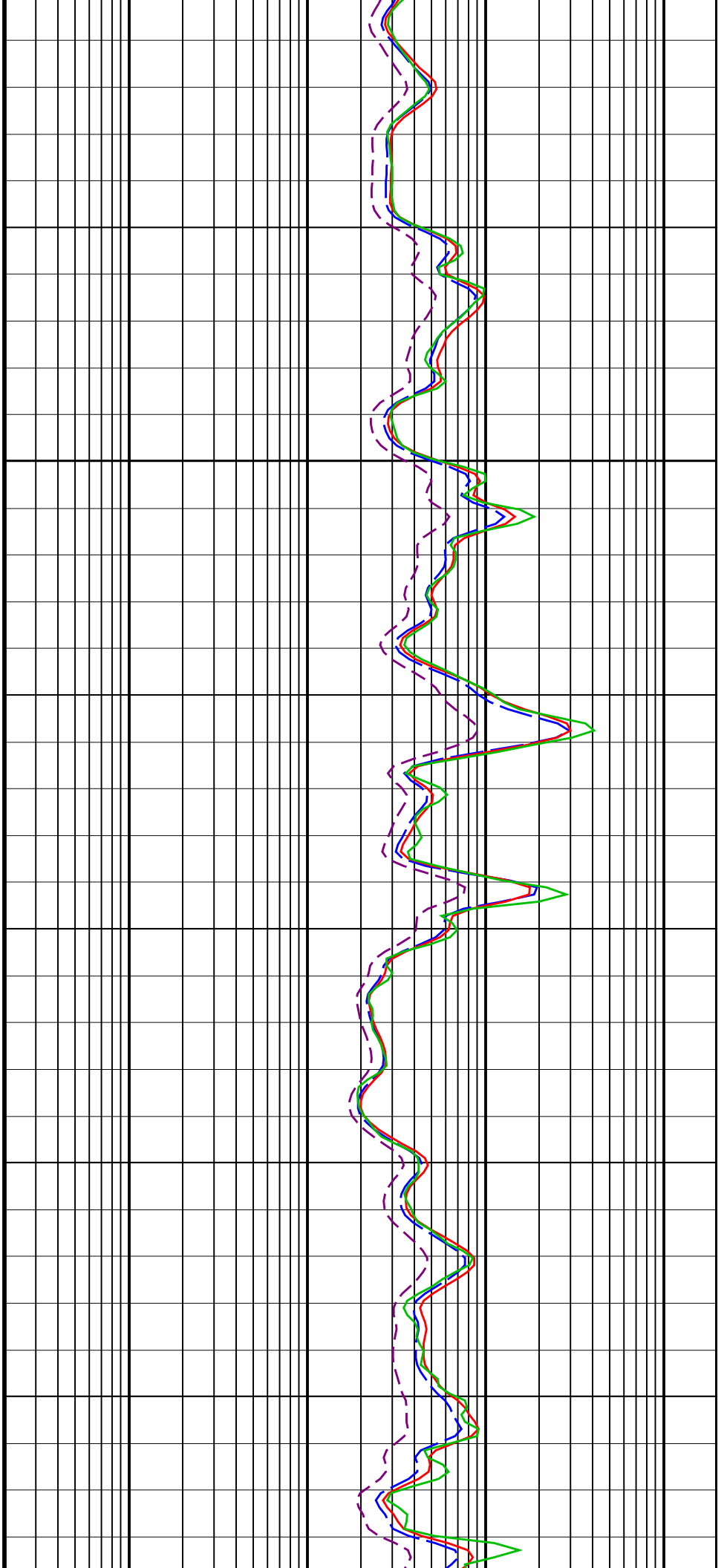


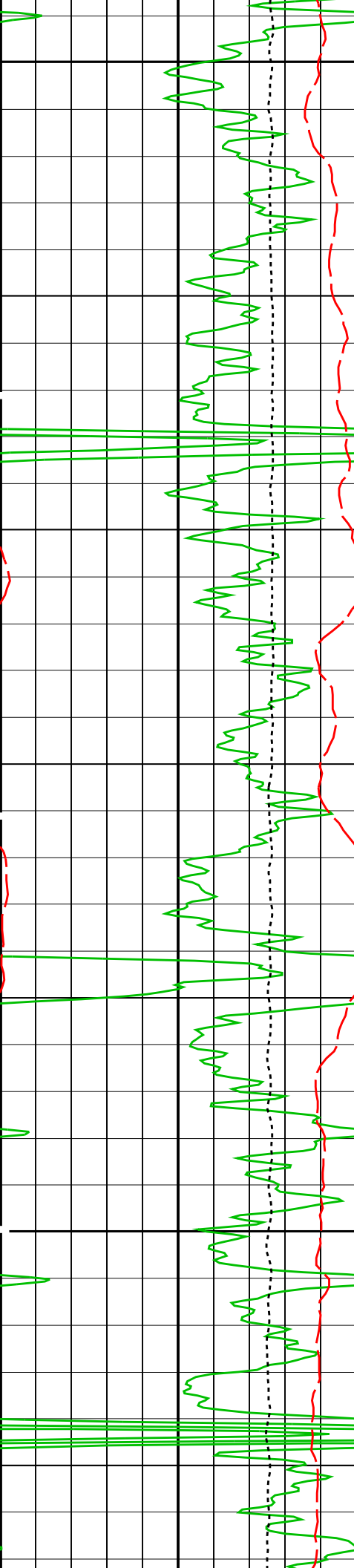
150





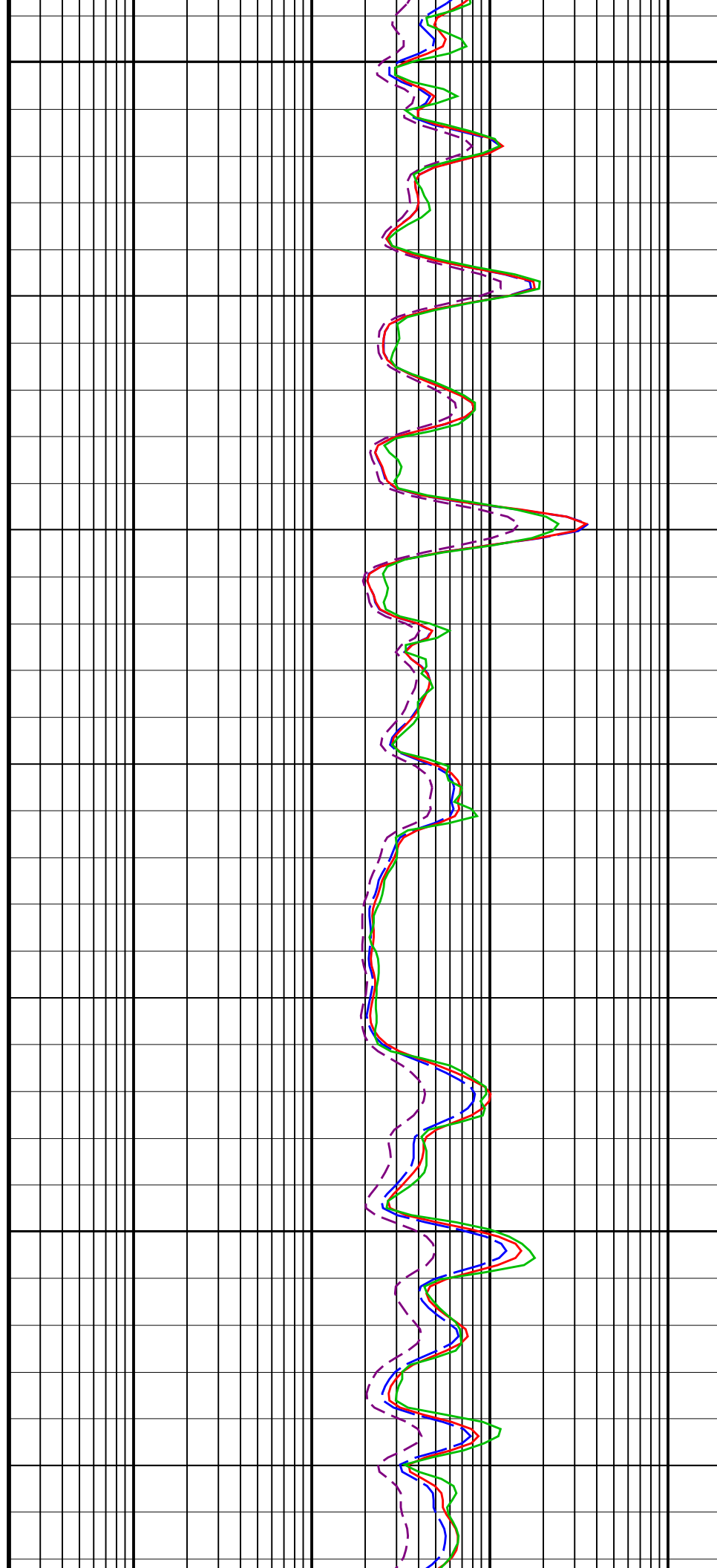
175

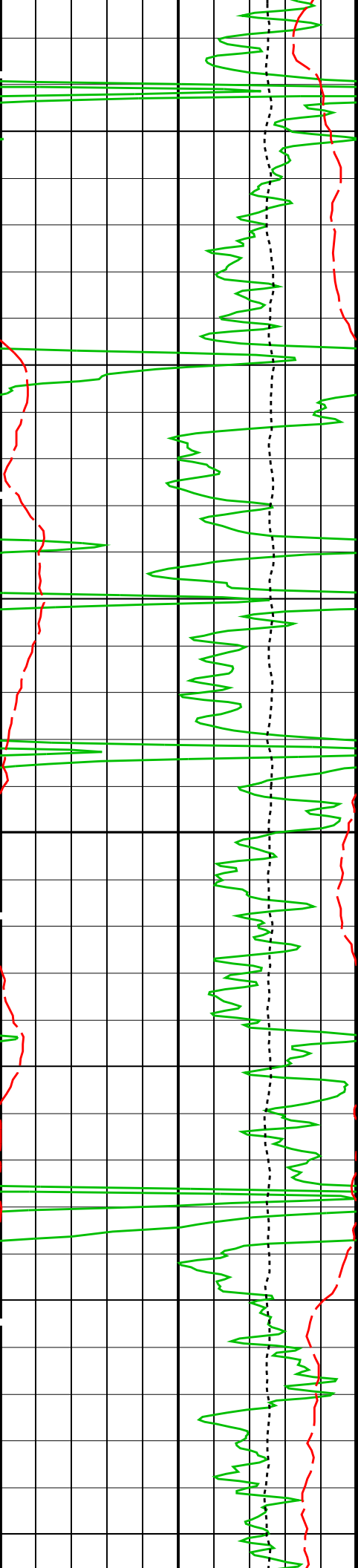




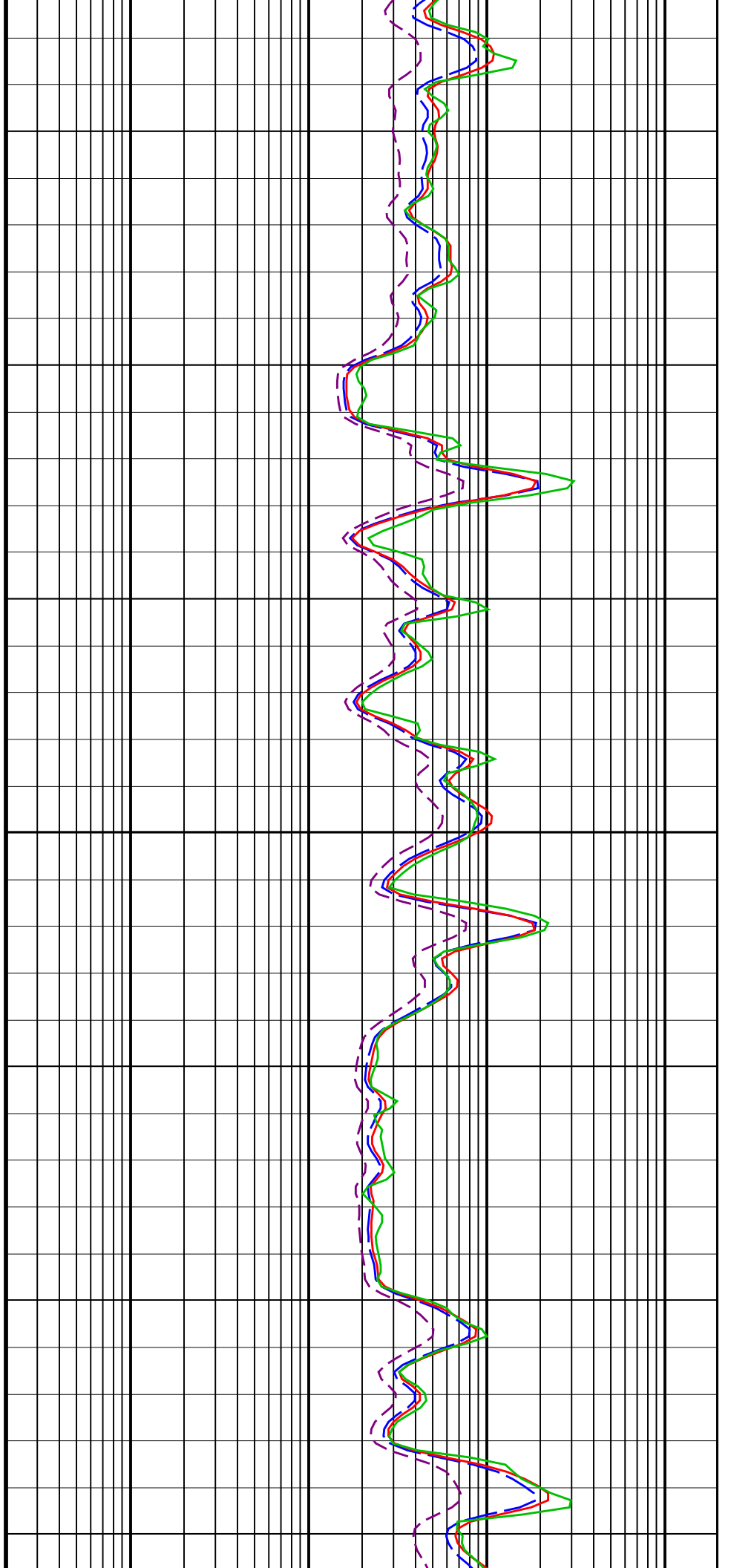
200

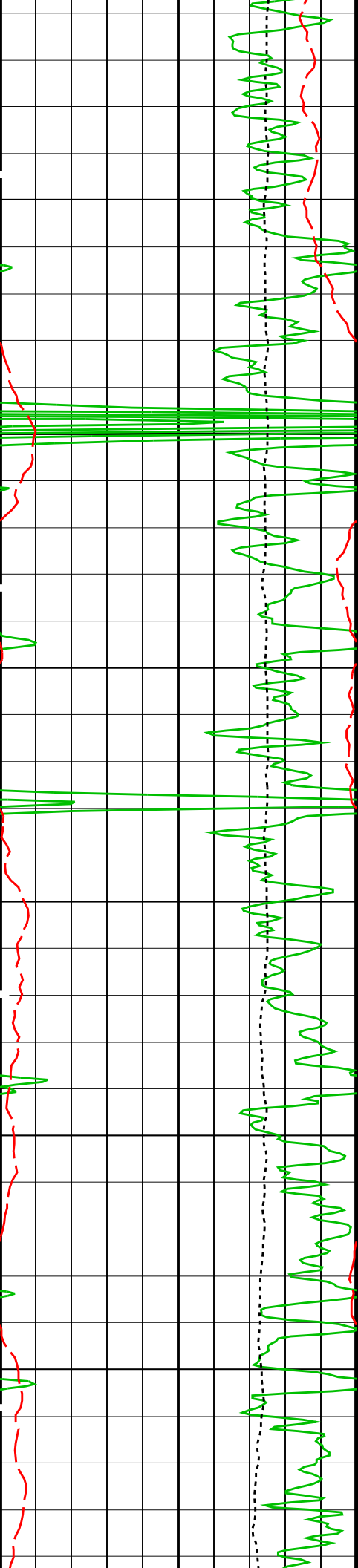
225



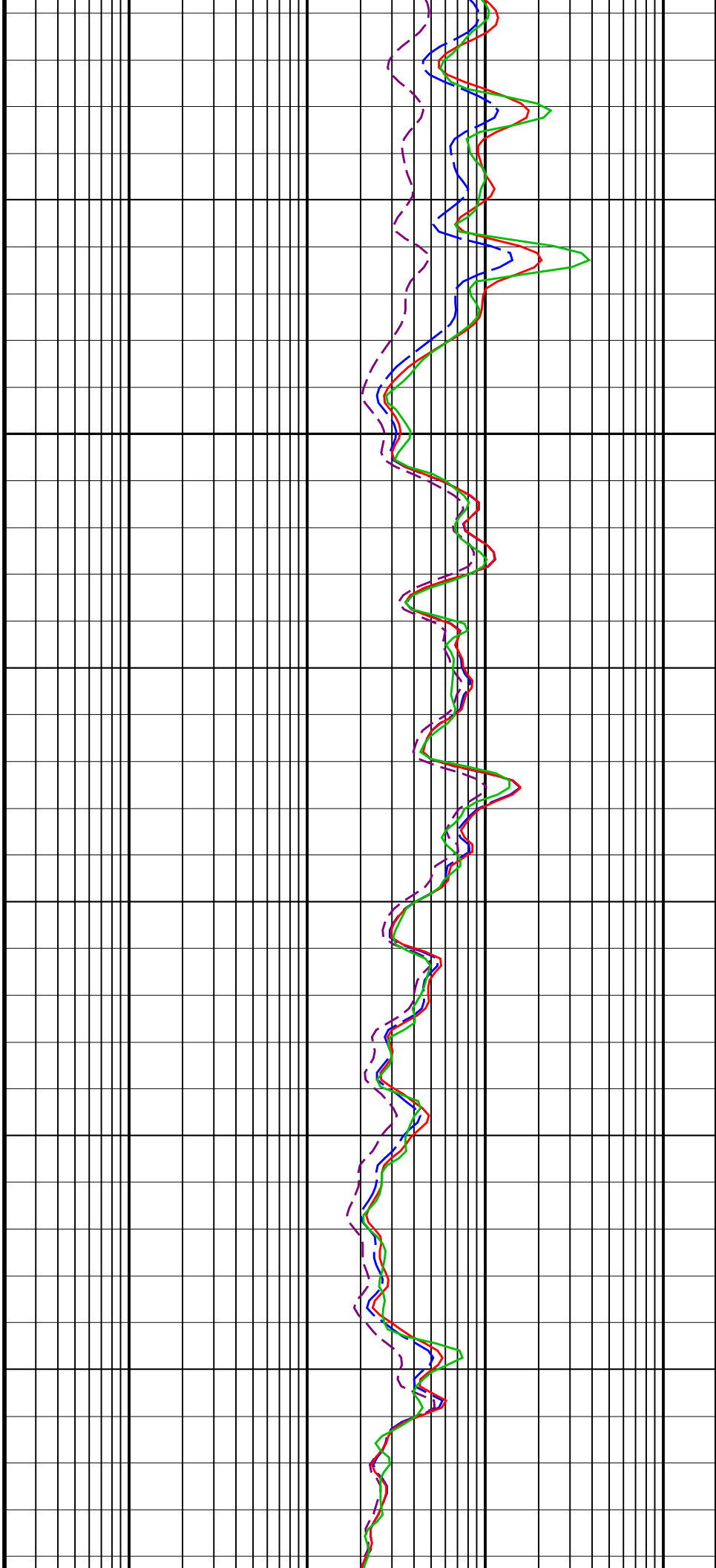


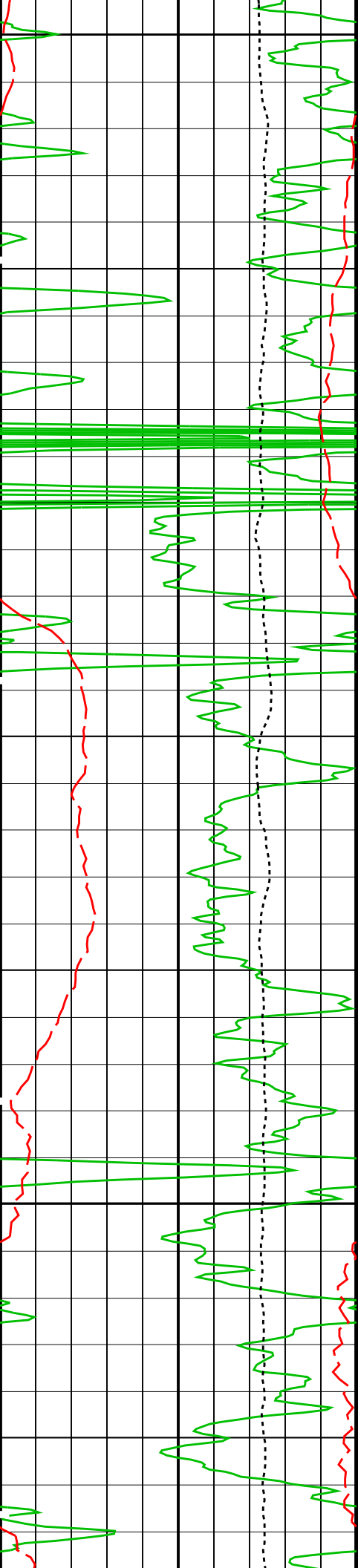
250





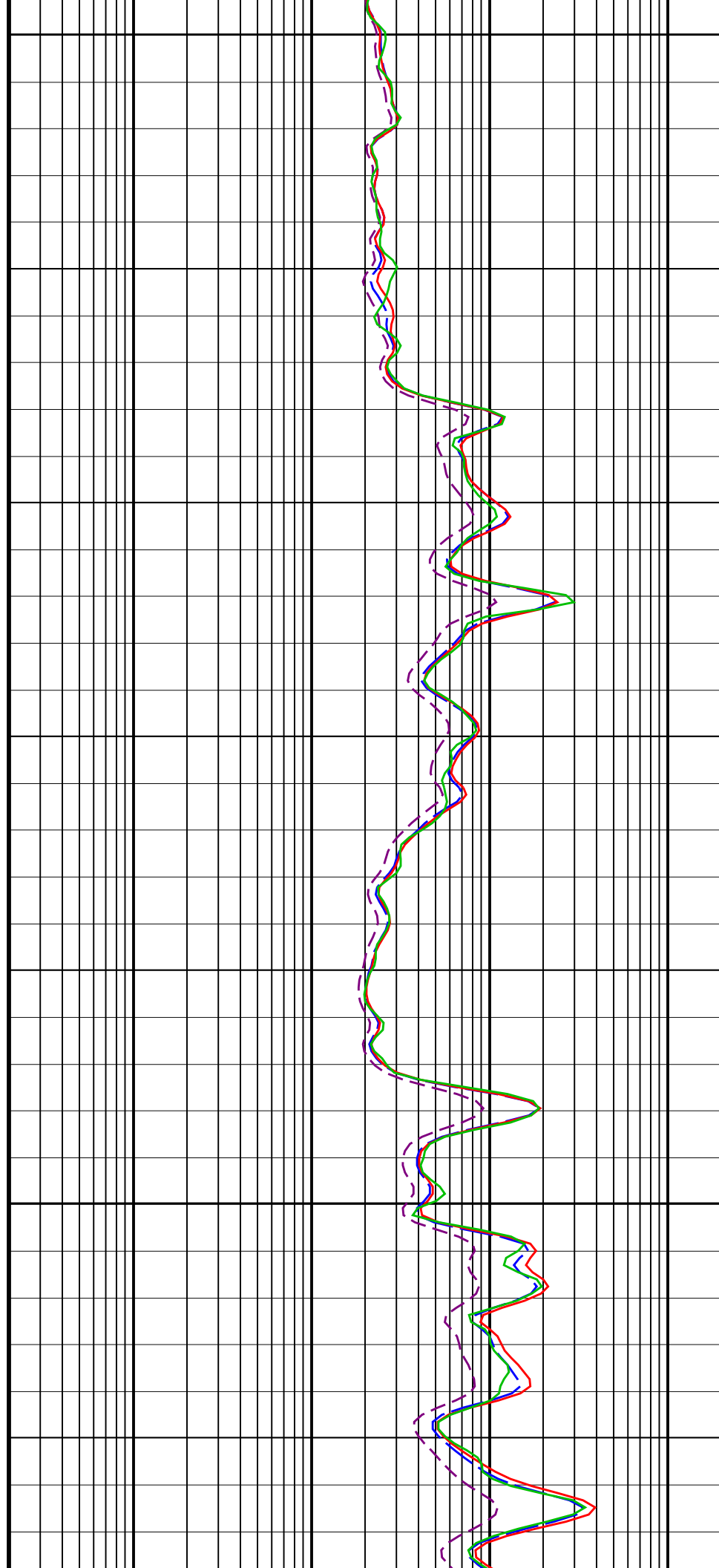
275

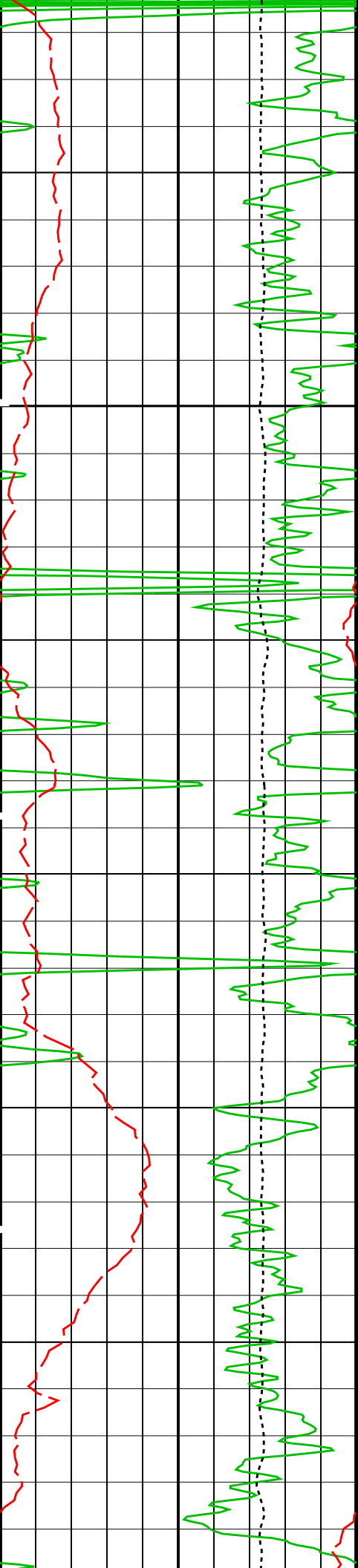




300

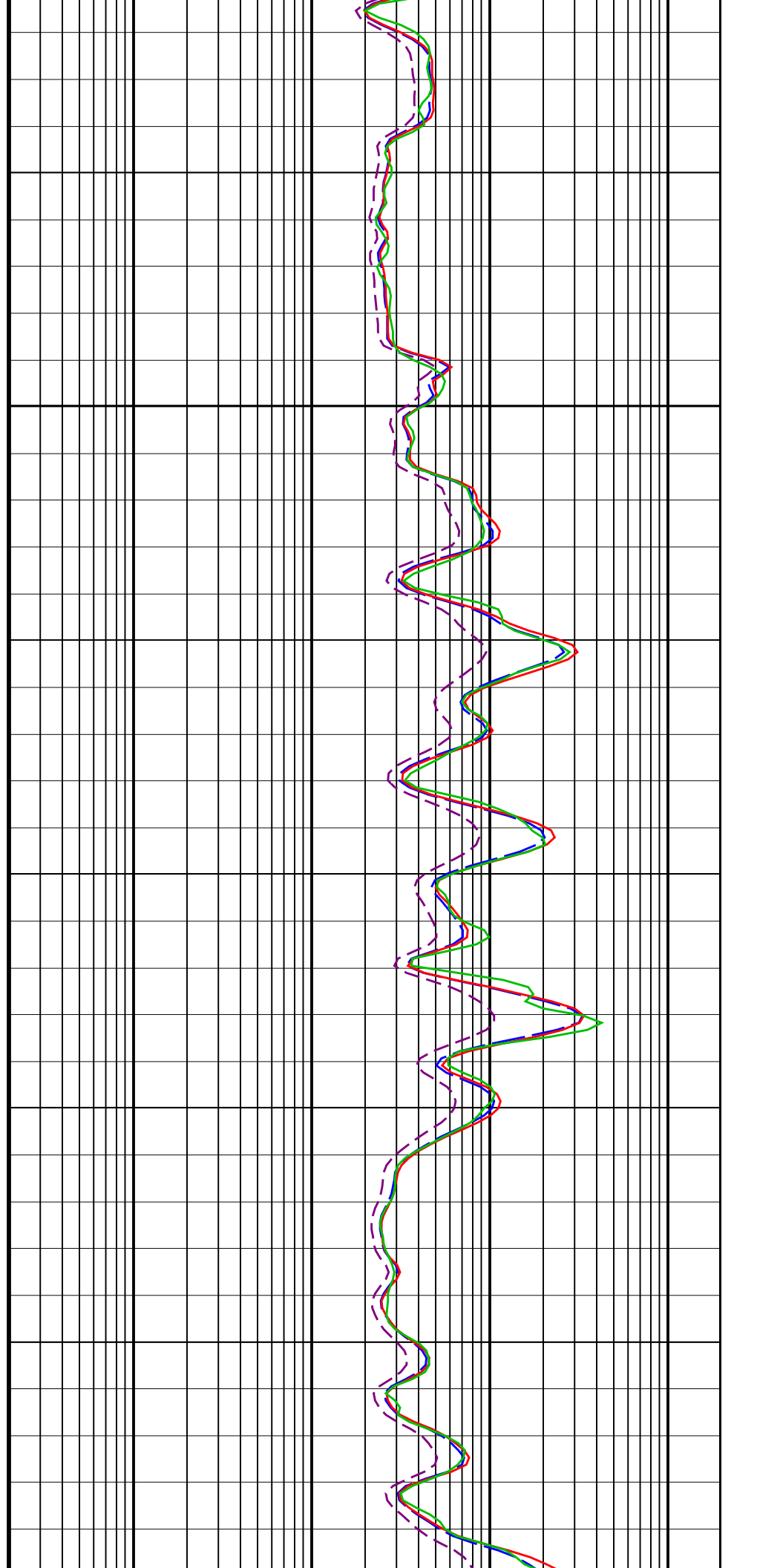
325

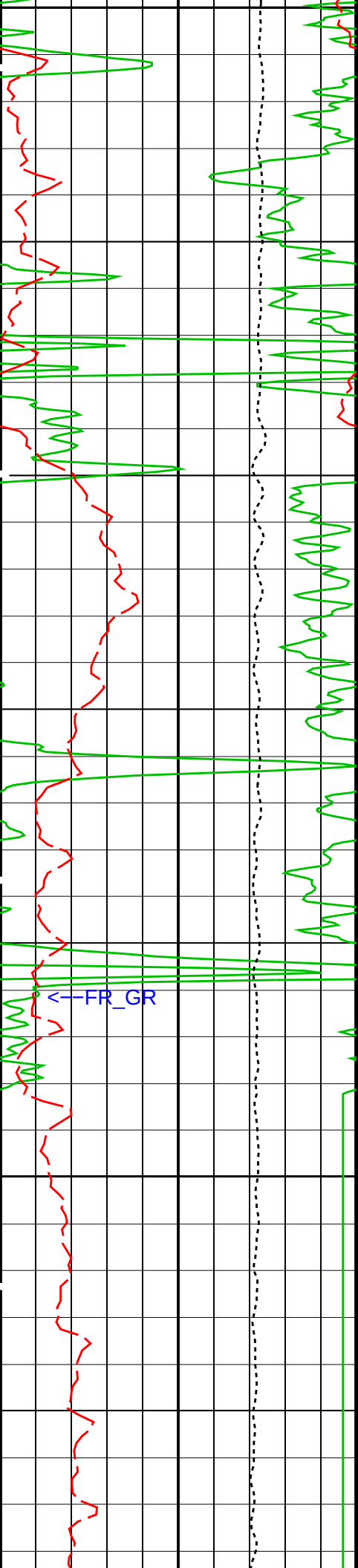




375

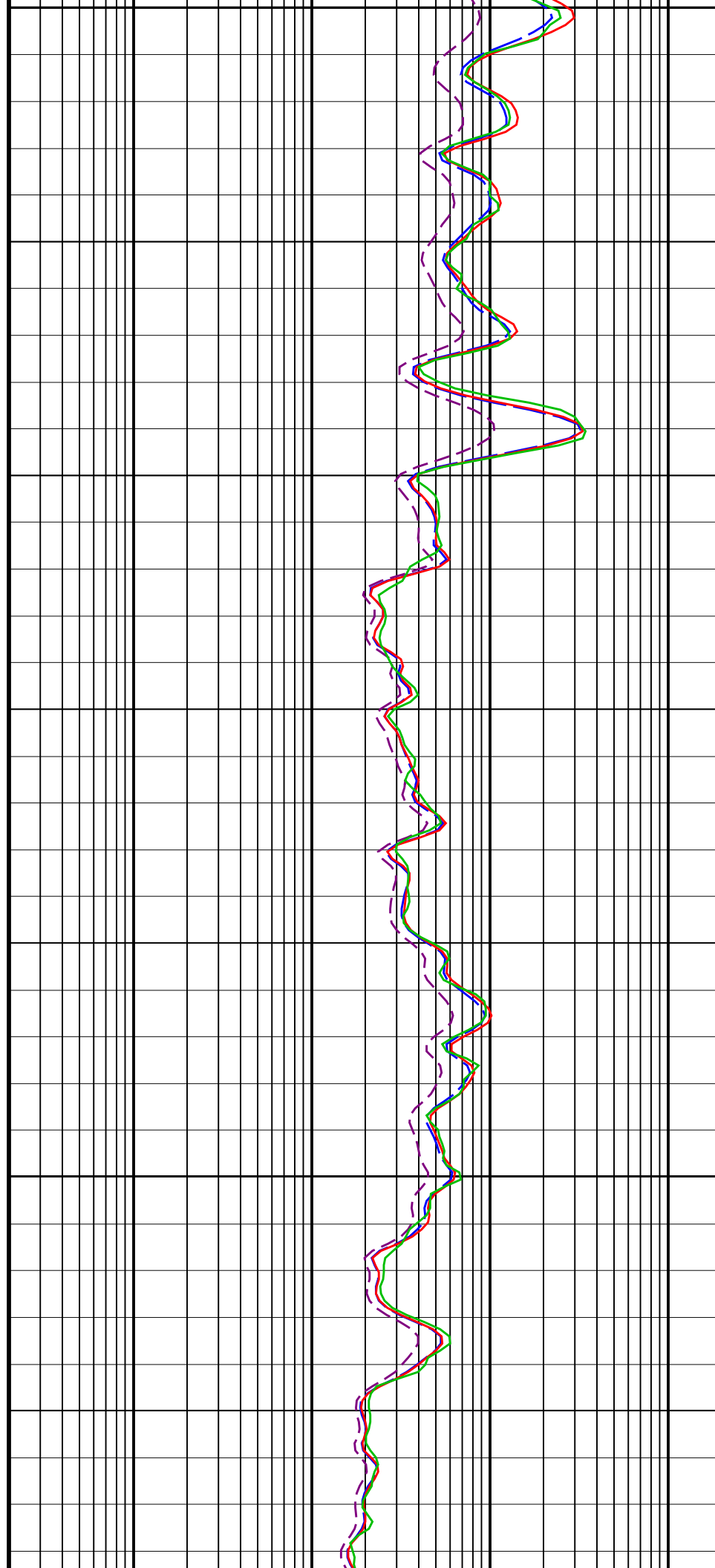
400

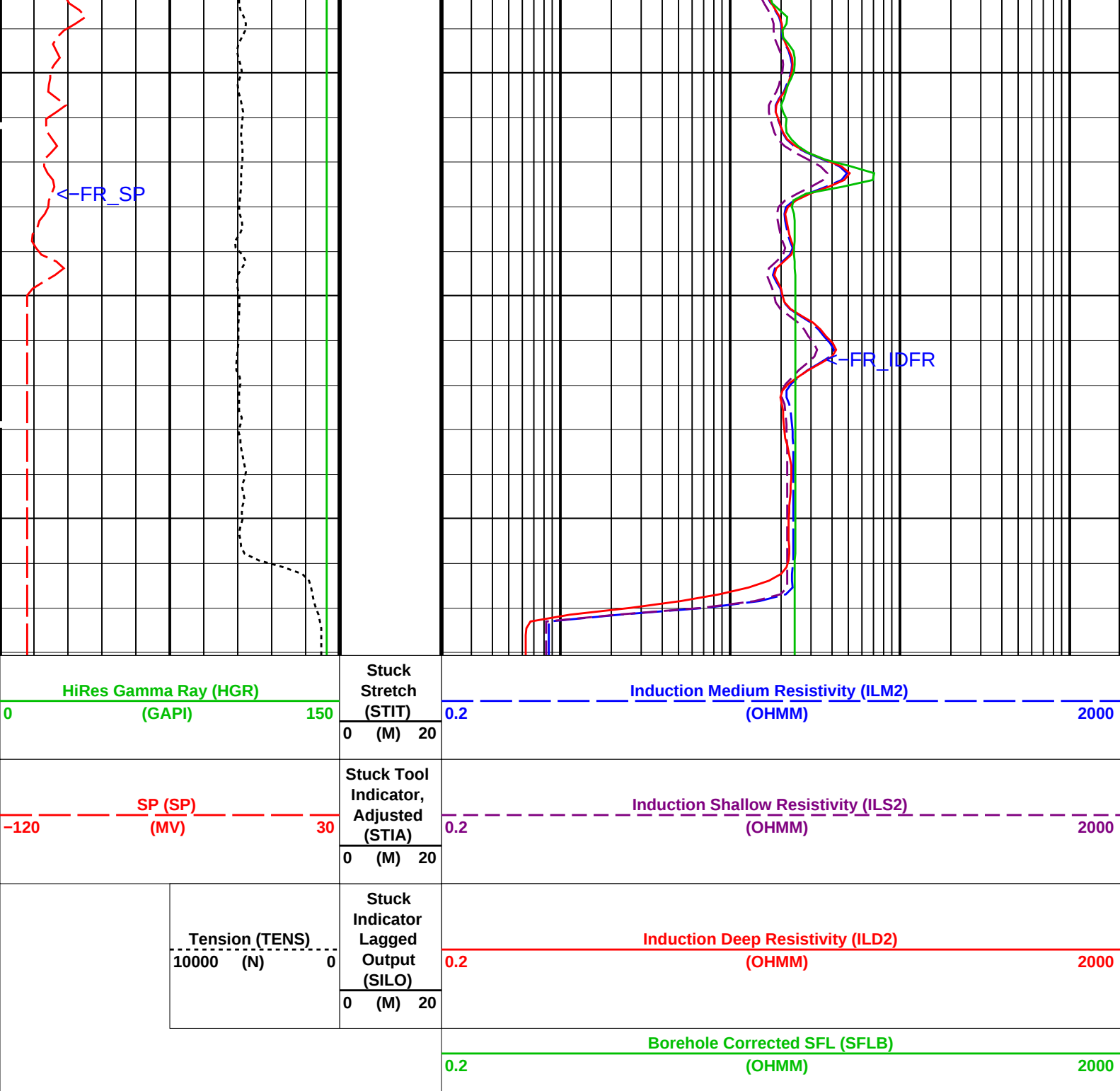




400

425





PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
IDFR-E: iFlex Dual Formation Resistivity Tool			
ABHV	Array Induction Borehole Correction Code Version Number	900	
ABLV	Array Induction Basic Logs Code Version Number	223	
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered	
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On	
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On	
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00	
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1	
AULV	Array Induction User Level Control	Normal	
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R	
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC

DFT_IFLEX	Drilling Fluid Type	WATER	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISOD	Induction Standoff Outer Diameter	57.15	MM
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
ISLT-B: iFlex Sonic Logging Tool			
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
ILDT-B: iFlex Litho Density Tool			
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
BARI_ITGN	Barite Mud Presence Flag	YES	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
NICO	Neutron Interference Correction Option	YES	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	444.80	M
TDL	Total Depth - Logger	445.80	M
System and Miscellaneous			
BS	Bit Size	96.000	MM
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.2	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	10.00	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	445.8	M

Format: HIRS_AITH Vertical Scale: 1:120 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
-------------	---------	--------	--------	-------	--------	-------	-------

iFlex Dual Formation Resistivity Tool Wellsite Calibration – Test Loop Gain Correction

Master: 6-Mar-2010 4:30

Test Loop Gain Correctio – 0	0	0.9956	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.011	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	-1.461	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	-0.9576	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	-2.034	N/A	N/A	N/A	N/A	V

iFlex Dual Formation Resistivity Tool Wellsite Calibration – Sonde Error Correction

Master: 6-Mar-2010 4:50

R Sonde Error Correction – 0	0	208.2	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 1	0	40.05	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 2	0	21.61	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 0	0	5.258	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 1	0	50.23	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 2	0	-98.73	N/A	N/A	N/A	N/A	MS/M

iFlex Dual Formation Resistivity Tool Wellsite Calibration – Mud Gain Correction

Master: 6-Mar-2010 5:34

Mud Gain – Coarse	1.000	1.118	N/A	N/A	N/A	N/A
Mud Gain – Fine	1.000	0.9545	N/A	N/A	N/A	N/A

iFlex Litho Density Tool Wellsite Calibration – Detector Calibration

Master: 24-Mar-2010 14:44

SS Window 1 Count Rate Bkg	1140	1236	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Bkg	1470	1563	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Bkg	760.0	806.6	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Bkg	770.0	829.8	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Bkg	79.00	80.18	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Bkg	94.00	96.29	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Bkg	280.0	274.5	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Bkg	146.0	145.6	N/A	N/A	N/A	N/A	CPS

iFlex Litho Density Tool Wellsite Calibration – Detector Calibration

Master: 24-Mar-2010 15:07

SS Window 1 Count Rate Water L	27000	24820	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water L	23000	20000	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water L	13400	11620	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water L	11800	10290	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water L	1210	1128	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water L	1600	1396	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water L	2100	1843	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water L	530.0	476.5	N/A	N/A	N/A	N/A	CPS

iFlex Litho Density Tool Wellsite Calibration – Detector Calibration

Master: 24-Mar-2010 15:16

SS Window 1 Count Rate Water H	23000	17170	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water H	22000	17390	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water H	12800	10220	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water H	11300	9089	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water H	950.0	740.9	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water H	1380	1127	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water H	2000	1634	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water H	500.0	435.2	N/A	N/A	N/A	N/A	CPS

iFlex Litho Density Tool Wellsite Calibration – Detector Calibration
Master: 24–Mar–2010 15:25

SS Window 1 Count Rate Magnesi	28000	25650	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Magnesi	24000	21330	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Magnesi	13500	11690	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Magnesi	11000	9573	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Magnesi	5400	4837	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Magnesi	6900	6031	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Magnesi	8500	7422	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Magnesi	1500	1321	N/A	N/A	N/A	N/A	CPS

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Background

Master: 5–Mar–2010 22:15 Before: 29–Mar–2010 23:44

Near Thermal Count Rate Master	27.00	26.42	26.00	N/A	N/A	N/A	CPS
Far Thermal Count Rate Master	10.00	10.11	10.96	N/A	N/A	N/A	CPS
Epithermal Count Rate Master B	27.00	27.07	25.65	N/A	N/A	N/A	CPS

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Plateau Setting

Master: 5–Mar–2010 21:47

Neutron Set Point Plat Set	2205	2217	N/A	N/A	N/A	N/A	V
----------------------------	------	------	-----	-----	-----	-----	---

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement

Master: 5–Mar–2010 22:04

Tank Temperature Tank Meas	20.00	16.50	N/A	N/A	N/A	N/A	DEGC
----------------------------	-------	-------	-----	-----	-----	-----	------

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement

Master: 5–Mar–2010 22:06

Near Thermal Count Rate Tank M	14600	13730	N/A	N/A	N/A	N/A	CPS
Far Thermal Count Rate Tank Me	5410	5025	N/A	N/A	N/A	N/A	CPS
Epithermal Count Rate Tank Mea	1570	1472	N/A	N/A	N/A	N/A	CPS

iFlex Dual Formation Resistivity Tool / Equipment Identification

Primary Equipment:

iFlex Resitivity Mud Sensor	IRMS – A	12
iFlex Resistivity Pressure Sub	PSUB – A	12
iFlex Dual Formation Resistivity Sonde	IDRS – E	12

Auxiliary Equipment:

iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V	
0	0.9956				-1.461		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)
1	1.014				-0.9576		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)
2	1.011				-2.034		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)
Master: 6–Mar–2010 4:30							

iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M	
0	208.2				5.258		
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)	-900.0 (Minimum)	0 (Nominal)	900.0 (Maximum)
1	40.05				50.23		
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)
2	21.61				-98.73		
		0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)	-150.0 (Minimum)	0 (Nominal)	150.0 (Maximum)
Master: 6-Mar-2010 4:50							

Mud Gain Correction							
Phase	Mud Gain – Coarse		Value	Phase	Mud Gain – Fine		Value
Master			1.118	Master			0.9545
0.8000 (Minimum)		1.000 (Nominal)	1.200 (Maximum)	0.8000 (Minimum)		1.000 (Nominal)	1.200 (Maximum)
Master: 6–Mar–2010 5:34							

Master: 6-Mar-2010 5:34

iFlex Dual Formation Resistivity Tool Master Calibration								
Test Loop Gain Correction								
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V		
0	0.9956				-1.461			
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014				-0.9576			
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.011				-2.034			
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 6-Mar-2010 4:30								

Master: 6-Mar-2010 4:30

iFlex Dual Formation Resistivity Tool Master Calibration								
Sonde Error Correction								
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M		
0	208.2				5.258			
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)		-900.0 (Minimum)	0 (Nominal)	900.0 (Maximum)
1	40.05				50.23			
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)		-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)
2	21.61				-98.73			
		0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)		-150.0 (Minimum)	0 (Nominal)	150.0 (Maximum)
Master: 6-Mar-2010 4:50								

Master: 6-Mar-2010 4:50

iFlex Dual Formation Resistivity Tool Master Calibration									
Mud Gain Correction									
Phase	Mud Gain – Coarse			Value	Phase	Mud Gain – Fine			Value
Master				1.118	Master				0.9545
0.8000 (Minimum)		1.000 (Nominal)		1.200 (Maximum)	0.8000 (Minimum)		1.000 (Nominal)		1.200 (Maximum)
Master: 6–Mar–2010 5:34									

Master: 6-Mar-2010 5:34

iFlex Litho Density Tool / Equipment Identification			
Primary Equipment:			
Mechanical Control Sonde	IMCS – A	25	
Gamma Gamma Logging Source	GGLS – C	2434	
Powered Density Pad	IPDP – A	25	
Caliper Electronics Cartridge	ICEC – B	25	
Auxiliary Equipment:			

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Bkg CPS			Value	Phase	SS Window 2 Count Rate Bkg CPS			Value
Master				1236	Master				1563
	730.0 (Minimum)	1140 (Nominal)	1370 (Maximum)			990.0 (Minimum)	1470 (Nominal)	1720 (Maximum)	
Phase	SS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 1 Count Rate Bkg CPS			Value
Master				829.8	Master				80.18
	480.0 (Minimum)	770.0 (Nominal)	940.0 (Maximum)			47.00 (Minimum)	79.00 (Nominal)	99.00 (Maximum)	
Phase	LS Window 2 Count Rate Bkg CPS			Value	Phase	LS Window 3 Count Rate Bkg CPS			Value
Master				96.29	Master				274.5
	54.00 (Minimum)	94.00 (Nominal)	121.0 (Maximum)			240.0 (Minimum)	280.0 (Nominal)	280.0 (Maximum)	
Phase	LS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 4 Count Rate Bkg CPS			Value
Master				145.6	Master				145.6
	140.0 (Minimum)	145.0 (Nominal)	150.0 (Maximum)			140.0 (Minimum)	145.0 (Nominal)	150.0 (Maximum)	

150.0 (Minimum)	280.0 (Nominal)	360.0 (Maximum)	83.00 (Minimum)	146.0 (Nominal)	190.0 (Maximum)	
Master: 24-Mar-2010 14:44						

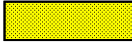
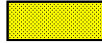
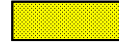
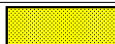
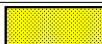
iFlex Litho Density Tool Wellsite Calibration																	
Detector Calibration																	
SS Window 1 Count Rate Water Low PE Insert					CPSValue	SS Window 2 Count Rate Water Low PE Insert					CPSValue	SS Window 3 Count Rate Water Low PE Insert					CPSValue
Master					24820	Master					20000	Master					11620
	18000 (Minimum)	27000 (Nominal)	30000 (Maximum)				16000 (Minimum)	23000 (Nominal)	25000 (Maximum)				9800 (Minimum)	13400 (Nominal)	14500 (Maximum)		
SS Window 4 Count Rate Water Low PE Insert					CPSValue	LS Window 1 Count Rate Water Low PE Insert					CPSValue	LS Window 2 Count Rate Water Low PE Insert					CPSValue
Master					10290	Master					1128	Master					1396
	8600 (Minimum)	11800 (Nominal)	12900 (Maximum)				820.0 (Minimum)	1210 (Nominal)	1400 (Maximum)				1050 (Minimum)	1600 (Nominal)	1800 (Maximum)		
SS Window 3 Count Rate Water Low PE Insert					CPSValue	LS Window 4 Count Rate Water Low PE Insert					CPSValue						
Master					1843	Master					476.5						
	1450 (Minimum)	2100 (Nominal)	2400 (Maximum)				380.0 (Minimum)	530.0 (Nominal)	580.0 (Maximum)								
Master: 24-Mar-2010 15:07																	

iFlex Litho Density Tool Wellsite Calibration																	
Detector Calibration																	
SS Window 1 Count Rate Water High PE Insert					CPSValue	SS Window 2 Count Rate Water High PE Insert					CPSValue	SS Window 3 Count Rate Water High PE Insert					CPSValue
Master					17170	Master					17390	Master					10220
	16000 (Minimum)	23000 (Nominal)	26000 (Maximum)				15000 (Minimum)	22000 (Nominal)	24000 (Maximum)				9300 (Minimum)	12800 (Nominal)	13900 (Maximum)		
SS Window 4 Count Rate Water High PE Insert					CPSValue	LS Window 1 Count Rate Water High PE Insert					CPSValue	LS Window 2 Count Rate Water High PE Insert					CPSValue
Master					9089	Master					740.9	Master					1127
	8200 (Minimum)	11300 (Nominal)	12400 (Maximum)				640.0 (Minimum)	950.0 (Nominal)	1100 (Maximum)				930.0 (Minimum)	1380 (Nominal)	1600 (Maximum)		
SS Window 3 Count Rate Water High PE Insert					CPSValue	SS Window 4 Count Rate Water High PE Insert					CPSValue						
Master					1634	Master					435.2						
	1350 (Minimum)	2000 (Nominal)	2300 (Maximum)				360.0 (Minimum)	500.0 (Nominal)	550.0 (Maximum)								
Master: 24-Mar-2010 15:16																	

iFlex Litho Density Tool Wellsite Calibration																			
Detector Calibration																			
Window	1 Count Rate Magnesium Low PE Insert				CPS Value	SS	Window	2 Count Rate Magnesium Low PE Insert				CPS Value	SS	Window	3 Count Rate Magnesium Low PE Insert				CPS Value
Master					25650		Master					21330		Master					11690
	19000 (Minimum)	28000 (Nominal)	31000 (Maximum)					17000 (Minimum)	24000 (Nominal)	27000 (Maximum)				9900 (Minimum)	13500 (Nominal)	14700 (Maximum)			
Window	4 Count Rate Magnesium Low PE Insert				CPS Value	LS	Window	1 Count Rate Magnesium Low PE Insert				CPS Value	LS	Window	2 Count Rate Magnesium Low PE Insert				CPS Value
Master					9573		Master					4837		Master					6031
	8000 (Minimum)	11000 (Nominal)	12000 (Maximum)					3600 (Minimum)	5400 (Nominal)	6200 (Maximum)				4600 (Minimum)	6900 (Nominal)	8000 (Maximum)			
Window	3 Count Rate Magnesium Low PE Insert				CPS Value	LS	Window	4 Count Rate Magnesium Low PE Insert				CPS Value	LS						
Master					7422		Master					1321							
	5700 (Minimum)	8500 (Nominal)	9900 (Maximum)					1030 (Minimum)	1500 (Nominal)	1800 (Maximum)									
Master: 24-Mar-2010 15:25																			

iFlex Litho Density Tool Master Calibration														
Detector Calibration														
Phase	SS Window 1 Count Rate Bkg CPS			Value	Phase	SS Window 2 Count Rate Bkg CPS			Value	Phase	SS Window 3 Count Rate Bkg CPS			Value
Master				1236	Master				1563	Master				806.6
	730.0 (Minimum)	1140 (Nominal)	1370 (Maximum)			990.0 (Minimum)	1470 (Nominal)	1720 (Maximum)			490.0 (Minimum)	760.0 (Nominal)	900.0 (Maximum)	
Phase	SS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 1 Count Rate Bkg CPS			Value	Phase	LS Window 2 Count Rate Bkg CPS			Value
Master				829.8	Master				80.18	Master				96.29
	480.0 (Minimum)	770.0 (Nominal)	940.0 (Maximum)			47.00 (Minimum)	79.00 (Nominal)	99.00 (Maximum)			54.00 (Minimum)	94.00 (Nominal)	121.0 (Maximum)	
Phase	LS Window 3 Count Rate Bkg CPS			Value	Phase	LS Window 4 Count Rate Bkg CPS			Value					
Master				274.5	Master				145.6					

150.0 (Minimum)	280.0 (Nominal)	360.0 (Maximum)	83.00 (Minimum)	146.0 (Nominal)	190.0 (Maximum)			
Master: 24-Mar-2010 14:44								
iFlex Litho Density Tool Master Calibration								
Detector Calibration								
SS Window 1 Count Rate Water Low PE Insert CPSValue			SS Window 2 Count Rate Water Low PE Insert CPSValue			SS Window 3 Count Rate Water Low PE Insert CPSValue		
Master		24820	Master		20000	Master		11620
18000 (Minimum)	27000 (Nominal)	30000 (Maximum)	16000 (Minimum)	23000 (Nominal)	25000 (Maximum)	9800 (Minimum)	13400 (Nominal)	14500 (Maximum)
SS Window 4 Count Rate Water Low PE Insert CPSValue			LS Window 1 Count Rate Water Low PE Insert CPSValue			LS Window 2 Count Rate Water Low PE Insert CPSValue		
Master		10290	Master		1128	Master		1396
8600 (Minimum)	11800 (Nominal)	12900 (Maximum)	820.0 (Minimum)	1210 (Nominal)	1400 (Maximum)	1050 (Minimum)	1600 (Nominal)	1800 (Maximum)
LS Window 3 Count Rate Water Low PE Insert CPSValue			LS Window 4 Count Rate Water Low PE Insert CPSValue					
Master		1843	Master		476.5			
1450 (Minimum)	2100 (Nominal)	2400 (Maximum)	380.0 (Minimum)	530.0 (Nominal)	580.0 (Maximum)			
Master: 24-Mar-2010 15:07								

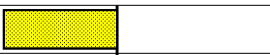
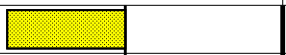
iFlex Litho Density Tool Master Calibration												
Detector Calibration												
SS Window 1 Count Rate Water High PE Insert			CPSValue	SS Window 2 Count Rate Water High PE Insert			CPSValue	SS Window 3 Count Rate Water High PE Insert			CPSValue	
Master			17170	Master			17390	Master			10220	
16000 (Minimum)			23000 (Nominal)	26000 (Maximum)				9300 (Minimum)			12800 (Nominal)	13900 (Maximum)
SS Window 4 Count Rate Water High PE Insert			CPSValue	LS Window 1 Count Rate Water High PE Insert			CPSValue	LS Window 2 Count Rate Water High PE Insert			CPSValue	
Master			9089	Master			740.9	Master			1127	
8200 (Minimum)			11300 (Nominal)	12400 (Maximum)				930.0 (Minimum)			1380 (Nominal)	1600 (Maximum)
LS Window 3 Count Rate Water High PE Insert			CPSValue	LS Window 4 Count Rate Water High PE Insert			CPSValue					
Master			1634	Master			435.2					
1350 (Minimum)			2000 (Nominal)	2300 (Maximum)								
Master: 24-Mar-2010 15:16												

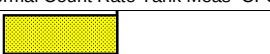
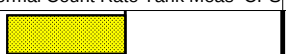
iFlex Litho Density Tool Master Calibration											
Detector Calibration											
SS Window 1	Count Rate	Magnesium Low PE Insert	CPS Value	SS Window 2	Count Rate	Magnesium Low PE Insert	CPS Value	SS Window 3	Count Rate	Magnesium Low PE Insert	CPS Value
Master			25650	Master			21330	Master			11690
19000 (Minimum)	28000 (Nominal)	31000 (Maximum)		17000 (Minimum)	24000 (Nominal)	27000 (Maximum)		9900 (Minimum)	13500 (Nominal)	14700 (Maximum)	
SS Window 4	Count Rate	Magnesium Low PE Insert	CPS Value	LS Window 1	Count Rate	Magnesium Low PE Insert	CPS Value	LS Window 2	Count Rate	Magnesium Low PE Insert	CPS Value
Master			9573	Master			4837	Master			6031
8000 (Minimum)	11000 (Nominal)	12000 (Maximum)		3600 (Minimum)	5400 (Nominal)	6200 (Maximum)		4600 (Minimum)	6900 (Nominal)	8000 (Maximum)	
SS Window 3	Count Rate	Magnesium Low PE Insert	CPS Value	LS Window 4	Count Rate	Magnesium Low PE Insert	CPS Value				
Master			7422	Master			1321				
5700 (Minimum)	8500 (Nominal)	9900 (Maximum)		1030 (Minimum)	1500 (Nominal)	1800 (Maximum)					
Master: 24-Mar-2010 15:25											

iFlex Telemetry Gamma Neutron Tool / Equipment Identification		
Primary Equipment:		
Telemetry Gamma Neutron Sonde	ITNS – B	9
Neutron Neutron Logging Source – contain	NNLS – B	
Telemetry Gamma Neutron Housing	ITNH – B	9
PSP Supply and Telemetry Cartridge	PSTC – A	
PSP Telemetry Cartridge	PSC – ATS	9
PSC 16.384MHz oscillator	PSC_ –	
Auxiliary Equipment:		

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration		
Background		

Background																				
Phase	Year	Thermal	Count Rate	Master Bkgd	CPS	Value	Phase	Year	Thermal	Count Rate	Master Bkgd	CPS	Value	Phase	Year	Thermal	Count Rate	Master Bkgd	CPS	Value
Master						26.42	Master						10.11	Master						27.07
Before						26.00	Before						10.96	Before						25.65
20.00 (Minimum) 27.00 (Nominal) 40.00 (Maximum)							7.000 (Minimum) 10.00 (Nominal) 17.00 (Maximum)							20.00 (Minimum) 27.00 (Nominal) 40.00 (Maximum)						
Master: 5-Mar-2010 22:15							Before: 29-Mar-2010 23:44													

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration													
Tank Measurement													
Phase	Year	Thermal	Count Rate	Tank Meas	CPS	Value	Phase	Year	Thermal	Count Rate	Tank Meas	CPS	Value
Master						13730	Master						5025
13400 (Minimum) 14600 (Nominal) 15700 (Maximum)							4900 (Minimum) 5410 (Nominal) 5900 (Maximum)						
Master: 5-Mar-2010 22:06													

iFlex Telemetry Gamma Neutron Tool Master Calibration													
Tank Measurement													
Phase	Year	Thermal	Count Rate	Tank Meas	CPS	Value	Phase	Year	Thermal	Count Rate	Tank Meas	CPS	Value
Master						13730	Master						5025
13400 (Minimum) 14600 (Nominal) 15700 (Maximum)							4900 (Minimum) 5410 (Nominal) 5900 (Maximum)						
Master: 5-Mar-2010 22:06													

Company: **Deer Lake Oil and Gas, Inc.**

Schlumberger

Well: **Werner Hatch 1**
Field: **Deer Lake Basin**
Rig: **Logan Hydro 44**
Province: **Newfoundland**

MULTI-EXPRESS
IDFR – RESISTIVITY LOG

ATTACHMENT # 12

Log – Compensated Neutron – Litho-Density & GR & Caliper

[illegible]

DEPTH SUMMARY LISTING

Date Created: 30-MAR-2010 2:31:41

Depth System Equipment

Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-JA	Type:	CMTD-B/A	Type:	7-46P XS
Serial Number:	6530	Serial Number:	2345	Serial Number:	708186
Calibration Date:	12-FEB-2010	Calibration Date:	23-MAR-2010	Length:	9060 M
Calibrator Serial Number:	4	Calibrator Serial Number:	238	Conveyance Method: Wireline Rig Type: LAND	
Calibration Cable Type:	7-46P XS	Number of Calibration Points:	10		
Wheel Correction 1:	-6	Calibration RMS:	837		
Wheel Correction 2:	-4	Calibration Peak Error:	1213		

Depth Control Parameters

Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 M
Rig Up Length At Bottom:	0.00 M
Rig Up Length Correction:	0.00 M
Stretch Correction:	0.30 M
Tool Zero Check At Surface:	0.10 M

Depth Control Remarks

1. ALL SCHLUMBERGER DEPTH PROCEDURES FOLLOWED
2. IDW USED FOR PRIMARY DEPTH CONTROL
3. Z-CHART USED AS SECONDARY DEPTH CONTROL
4. MAIN LOG CORRELATED TO DOWNLOG
5. CMTD 10 POINT CALIBRATION
6. IDW IN SERVICE DATE IS 30-MAR-2010

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1 OS1: IDFR OS2: ISLT OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
All tools run as per tool sketch	
ISLF and IDFE run centralized with 3 x ICME's	
ILE-I run above ITGN for eccentralization	
ILDT run with 2 x AH-306 below and 1 x AH-306 above	
Radioactivity horizons confirmed with wellsite geologist	

[illegible]

RUN 1 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
AP8D-00212 17C0-154 0 m					
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

[illegible]

RUN 2

SURFACE EQUIPMENT

WITM-A
PSC 16MHZ

DOWNHOLE EQUIPMENT

LEH-QT		28.33
LEH-QT		

AH-307		27.44
--------	---	-------

ILE-I		27.17
ILE-I		

Category	Sub-category	Value
ITGN-B	Detail MT	24.97
	TelStatus	24.97
	PSTC CTEM	24.97
	GR	24.49
	CCL	24.03
	Far	22.47
	Near Epi	22.32
	Status	22.32
	Head Temp	21.85
	Head Temp	21.85

AH-306		21.85
--------	---	-------

ILD-T-B	ICEC Stat	20.70	21.36
ICEC-B 25	PEFL	19.14	
IMCS-A 25	Caliper	19.03	
GGLS-C 2434	LS	19.00	
IPDP-A 25	PEFS	18.90	
	SS	18.88	
	IMCS Stat	18.24	

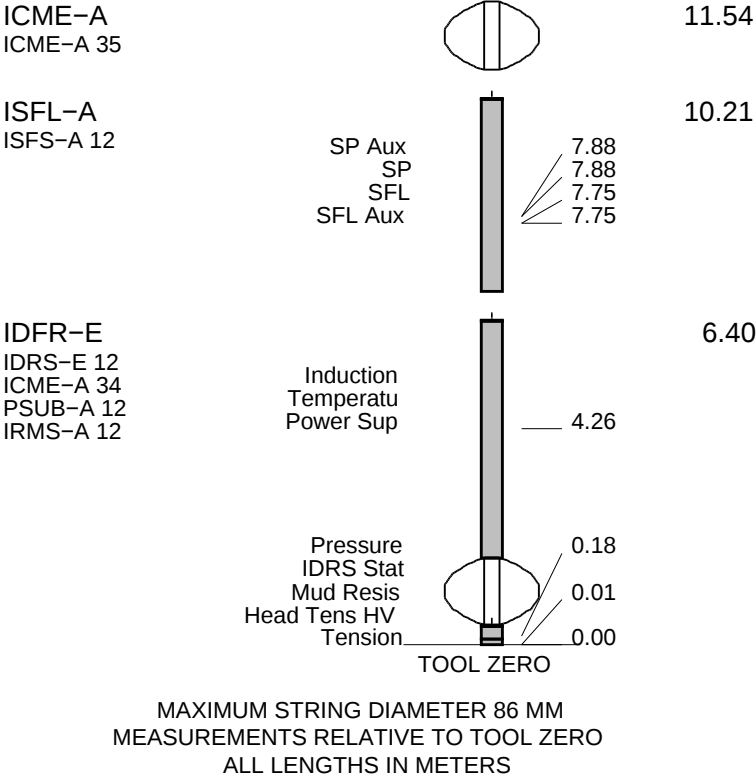
AH-306		18.24
--------	---	-------

AH-306		17.76
--------	---	-------

ICME-A		17.28
ICME-A		

ISLT-B		15.94
--------	---	-------

ISLS-B		
ISLC-B		
ISLH-B	RX_ARRAY	14.32



Schlumberger

Main Pass
1:600

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Integrated Hole/Cement Volume Summary

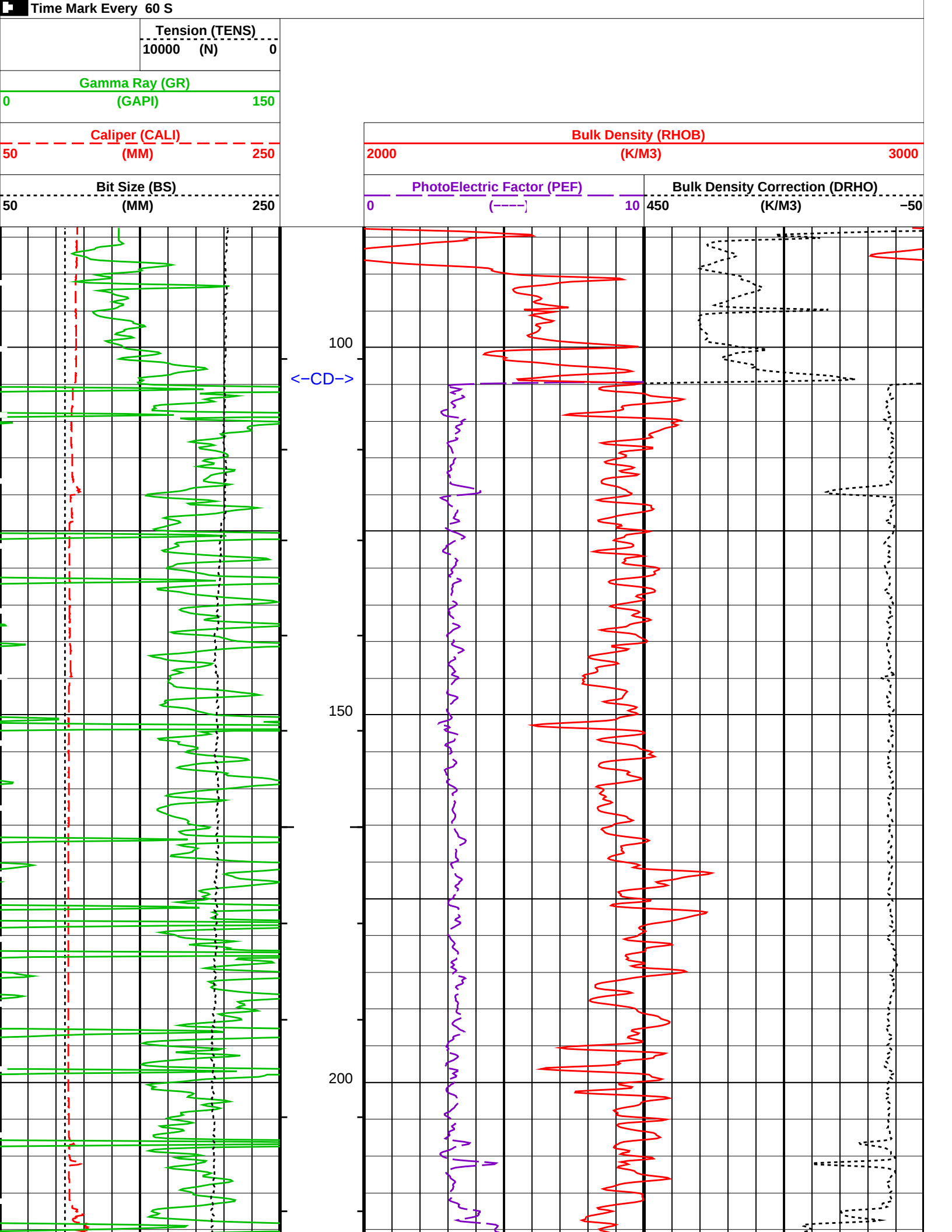
Hole Volume = 2.50 M3
Cement Volume = 2.50 M3 (assuming 0.00 MM casing O.D.)
Computed from 445.8 M to 101.0 M using data channel(s) CALI

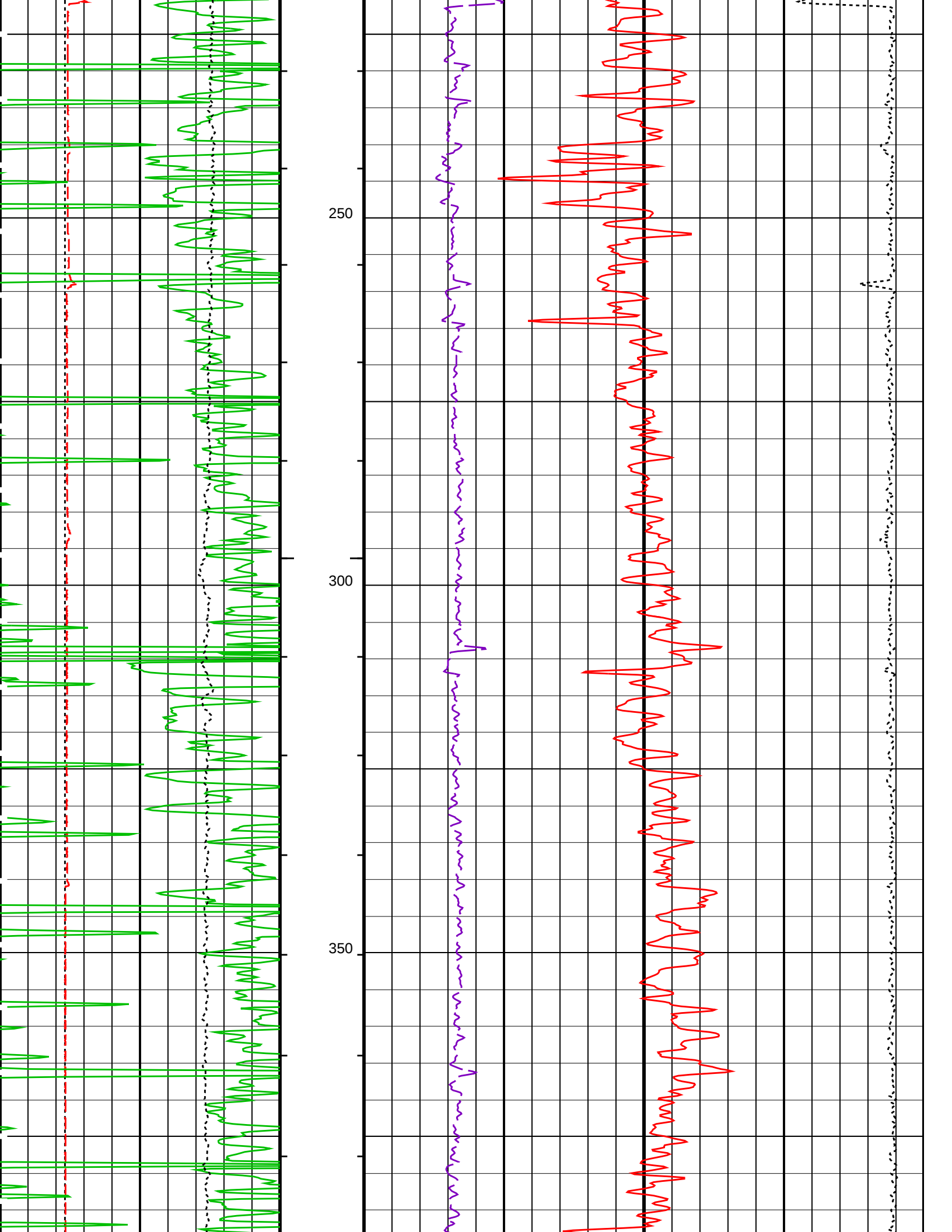
OP System Version: 17C0-154

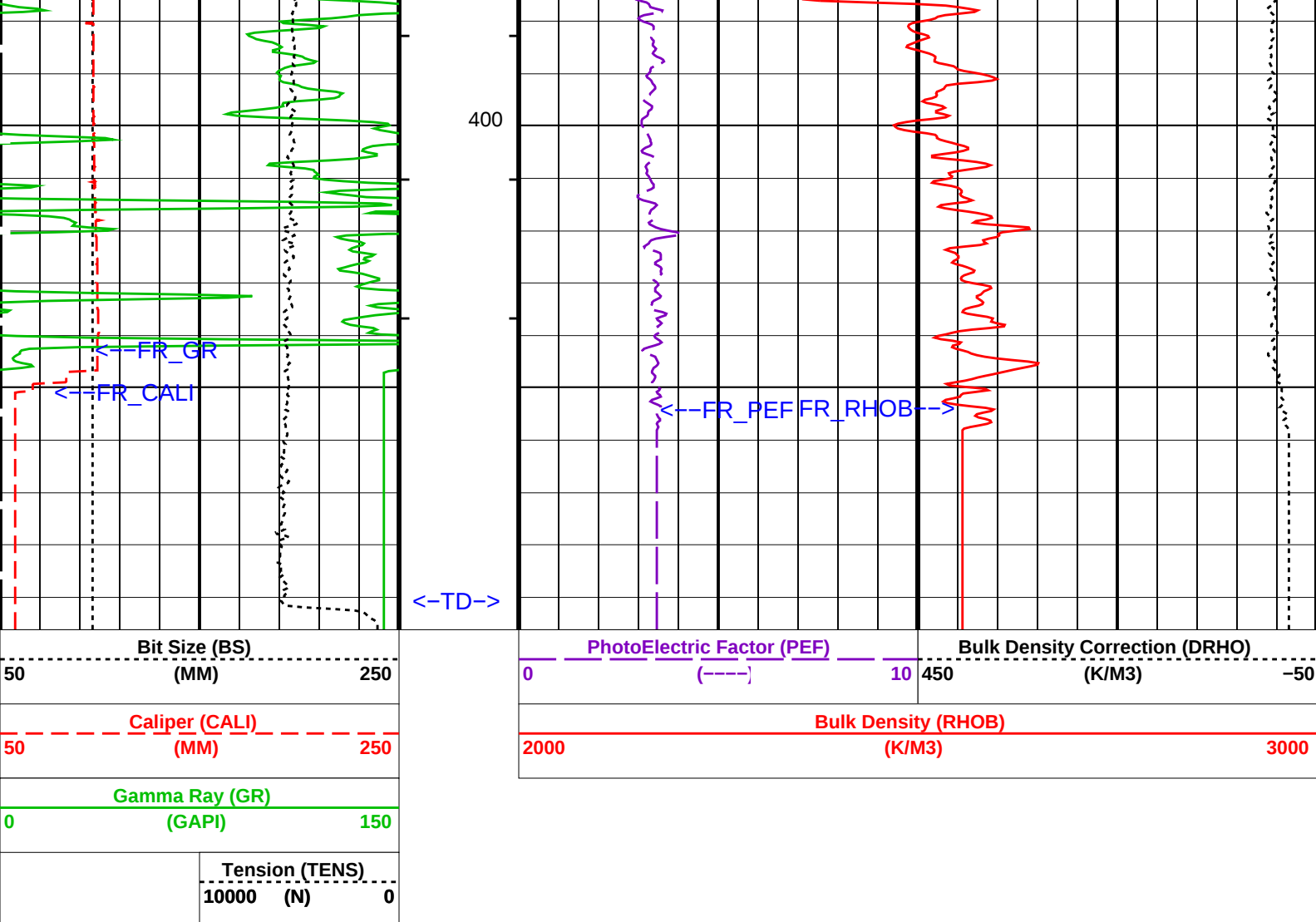
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3







PIP SUMMARY

- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
IDFR-E: iFlex Dual Formation Resistivity Tool			
BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
ISLT-B: iFlex Sonic Logging Tool			
BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
ILDT-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
MDEN	Matrix Density	2650	K/M3
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
BARI_ITGN	Barite Mud Presence Flag	YES	
BHS	Borehole Status	OPEN	
DFT_IFLEX	Drilling Fluid Type	WATER	
GCSE	Generalized Caliper Selection	CALI	
NICO	Neutron Interference Correction Option	YES	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	

SDAT	Standard Data Source	SOCCN	0	IN
SOCN	Standoff Distance	CALI		
TBHDS	Tool Borehole Diameter Source	GTSE		
TBHTS	Tool Borehole Temperature Source			
	HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN		
FCD	Future Casing (Outer) Diameter	0	MM	
GCSE	Generalized Caliper Selection	CALI		
HVCS	Integrated Hole Volume Caliper Selection	CALI		
	System and Miscellaneous			
BS	Bit Size	96.000	MM	
DFD	Drilling Fluid Density	1170.00	K/M3	
DO	Depth Offset for Playback	-2.2	M	
PP	Playback Processing	NORMAL		
TD	Total Depth	445.8	M	

Format: DENS Vertical Scale: 1:600 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

Main Pass
1:240

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Integrated Hole/Cement Volume Summary

Hole Volume = 2.50 M3

Cement Volume = 2.50 M3 (assuming 0.00 MM casing O.D.)

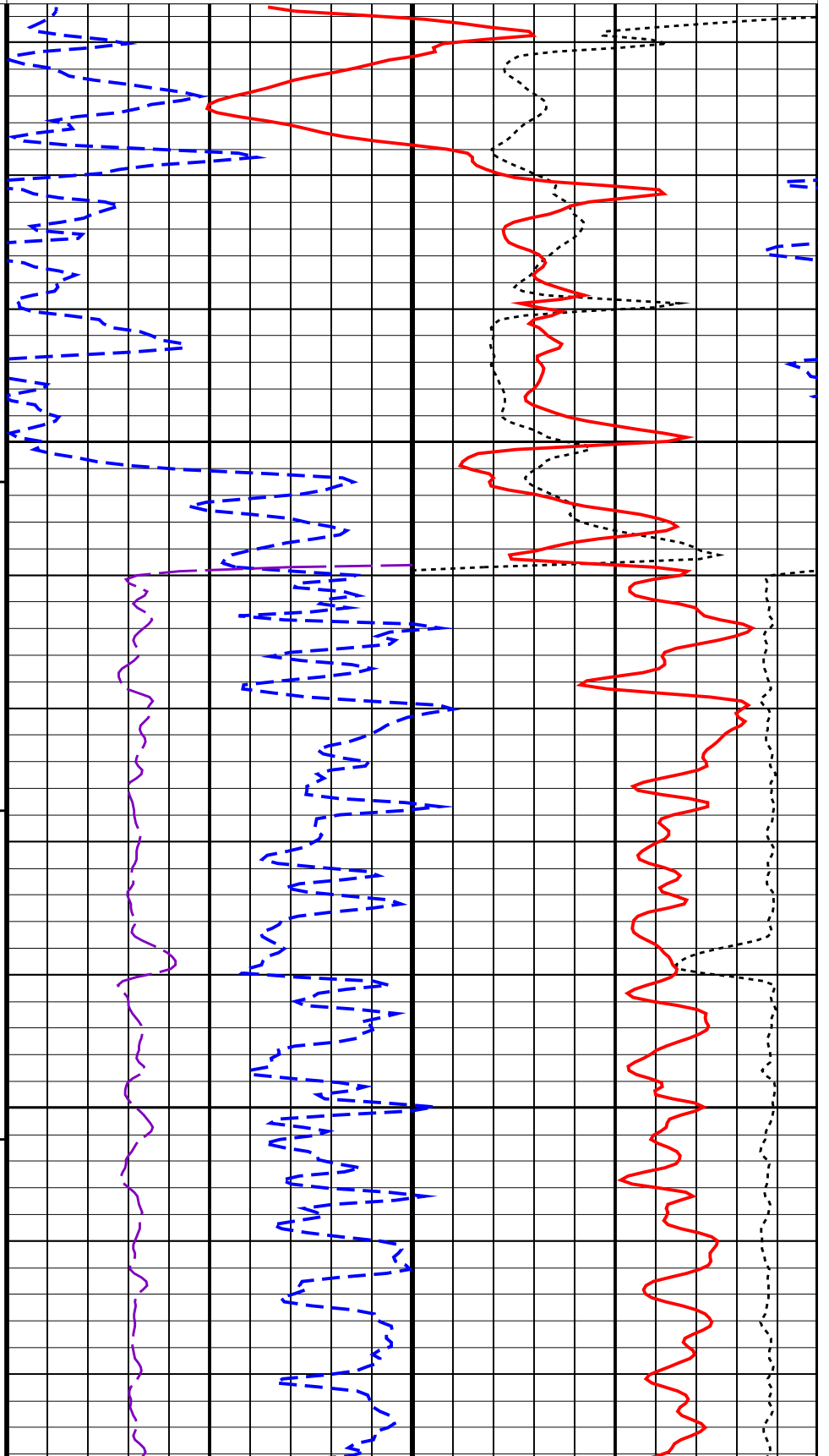
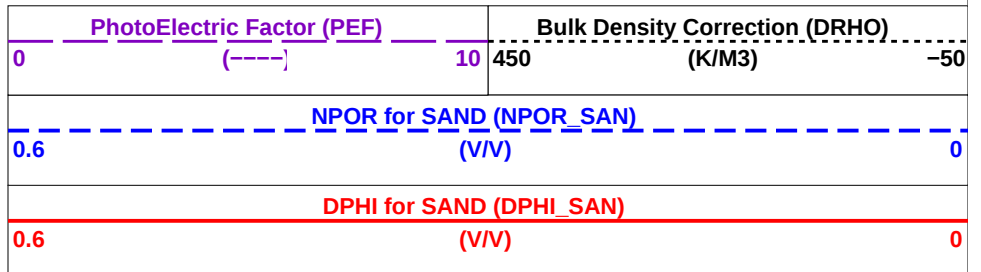
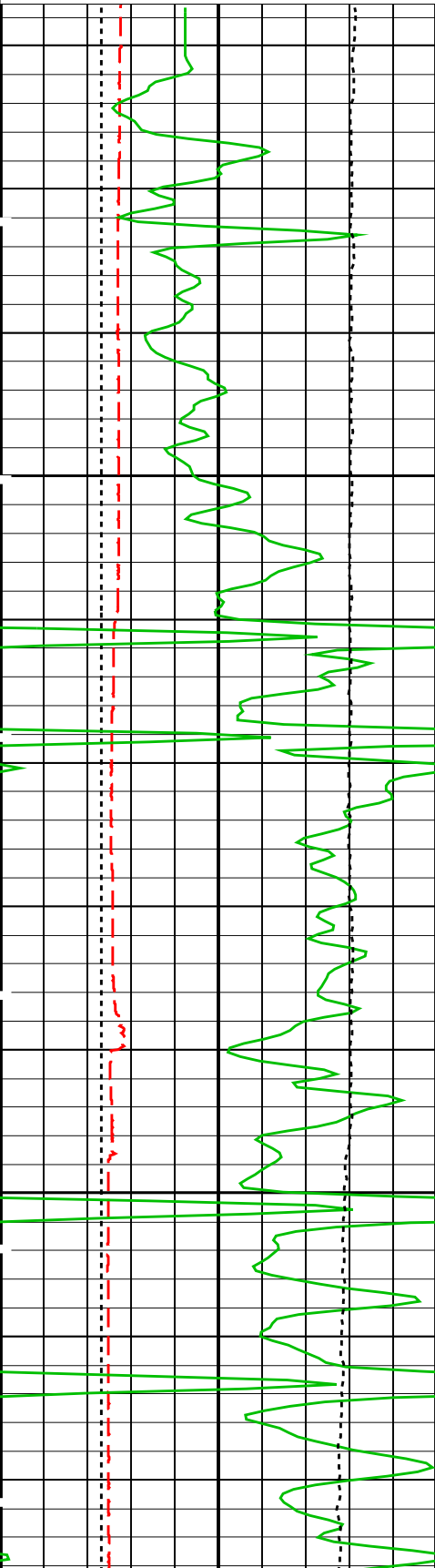
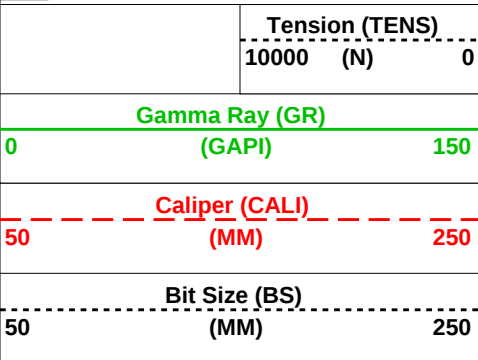
Computed from 445.8 M to 101.0 M using data channel(s) CALI

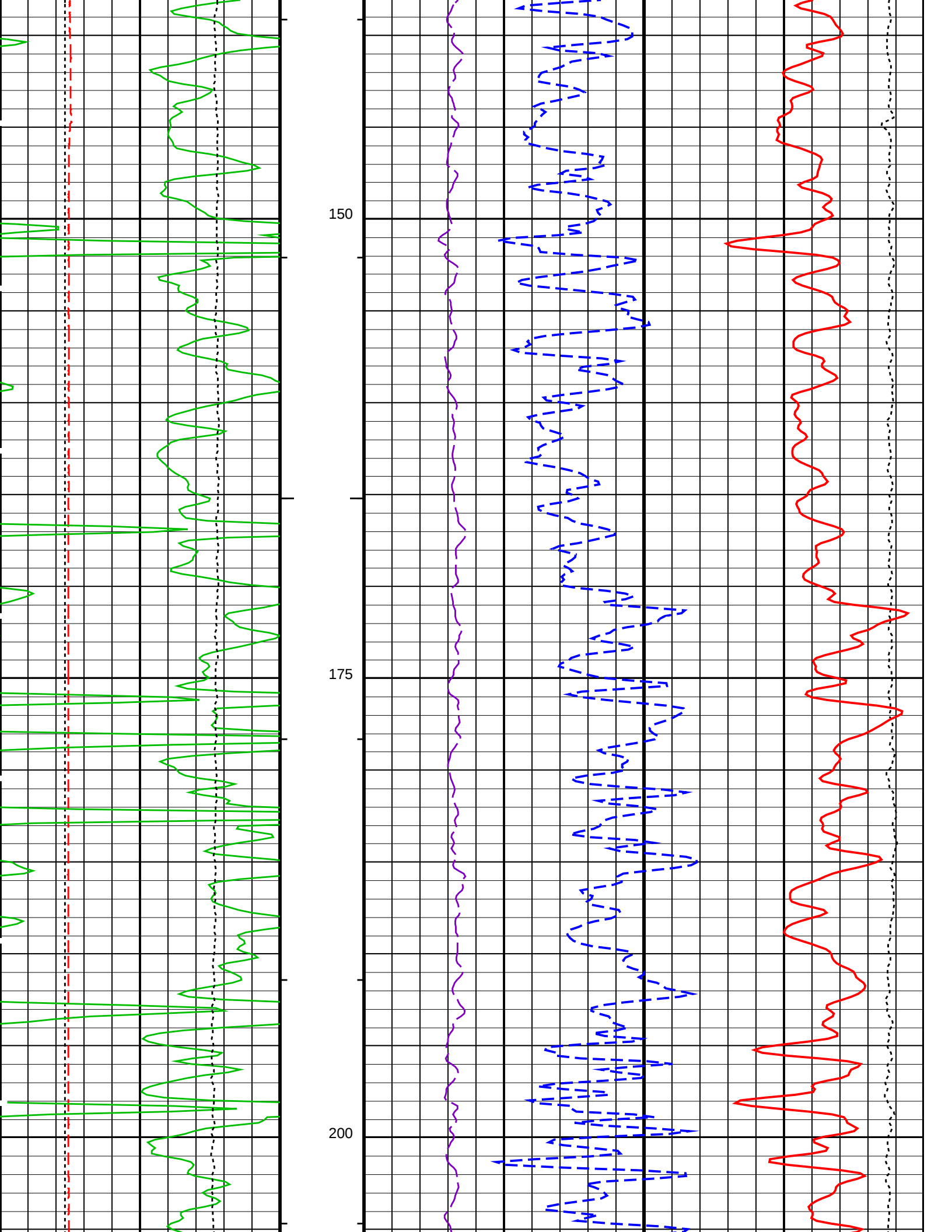
OP System Version: 17C0-154

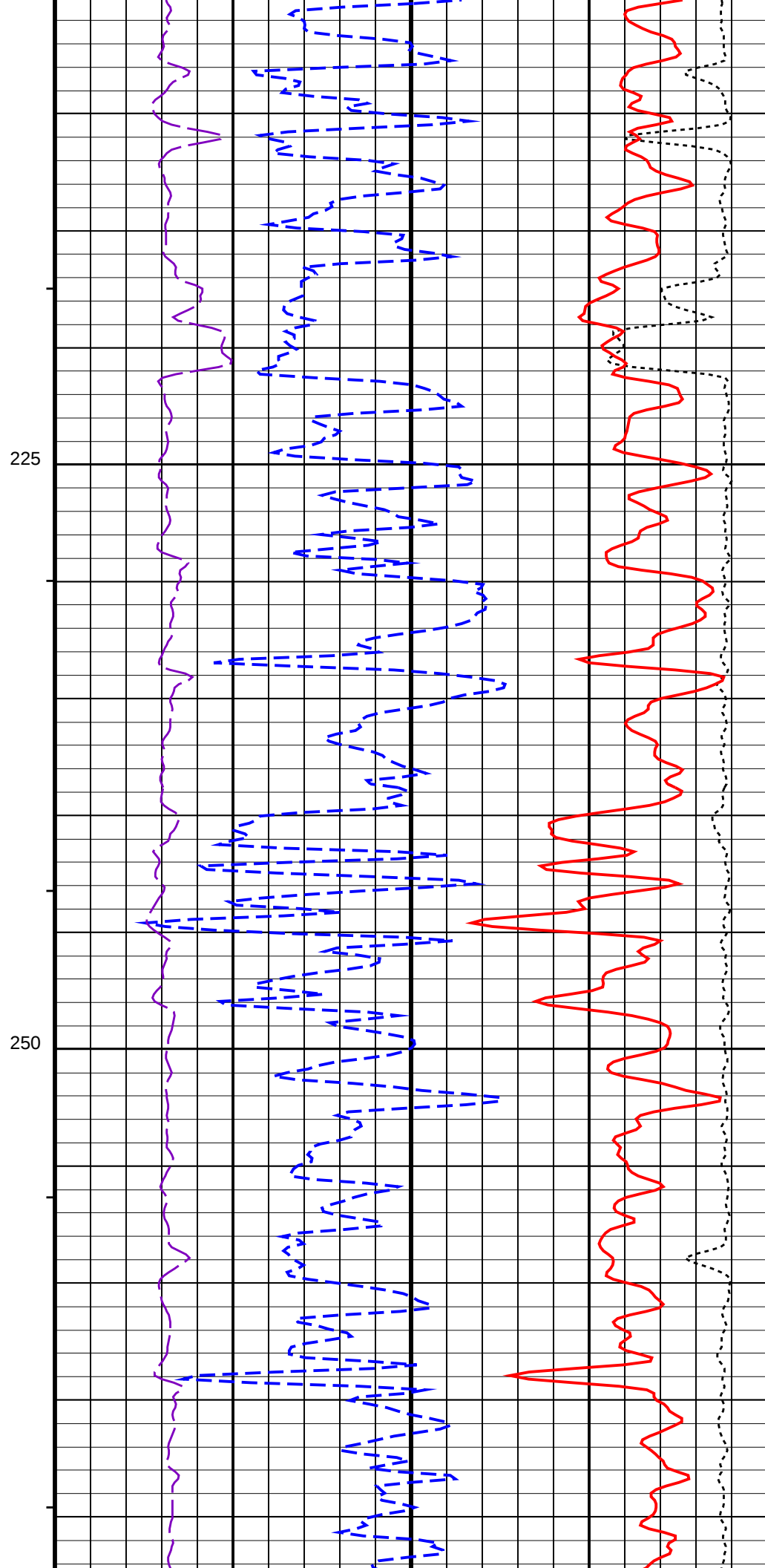
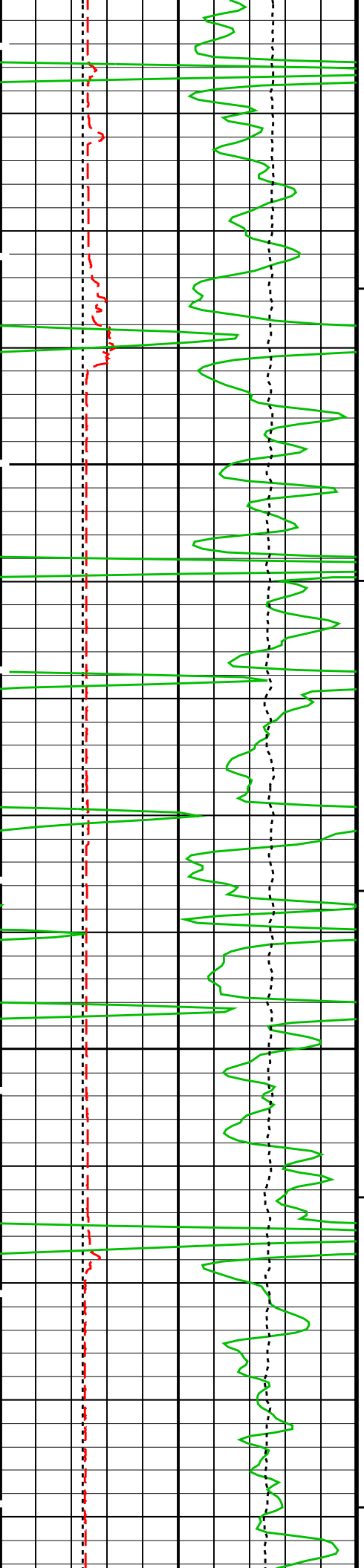
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

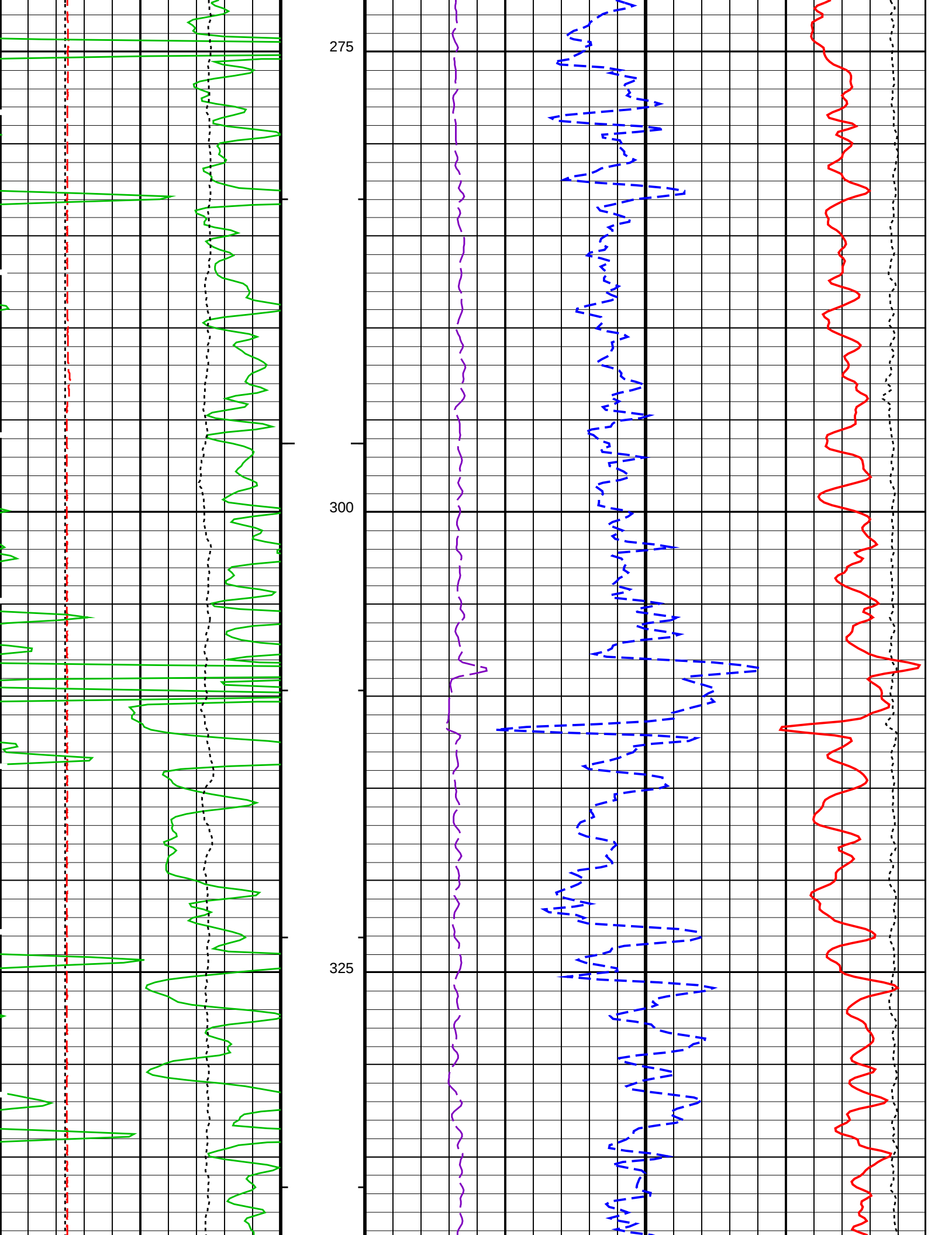
PIP SUMMARY

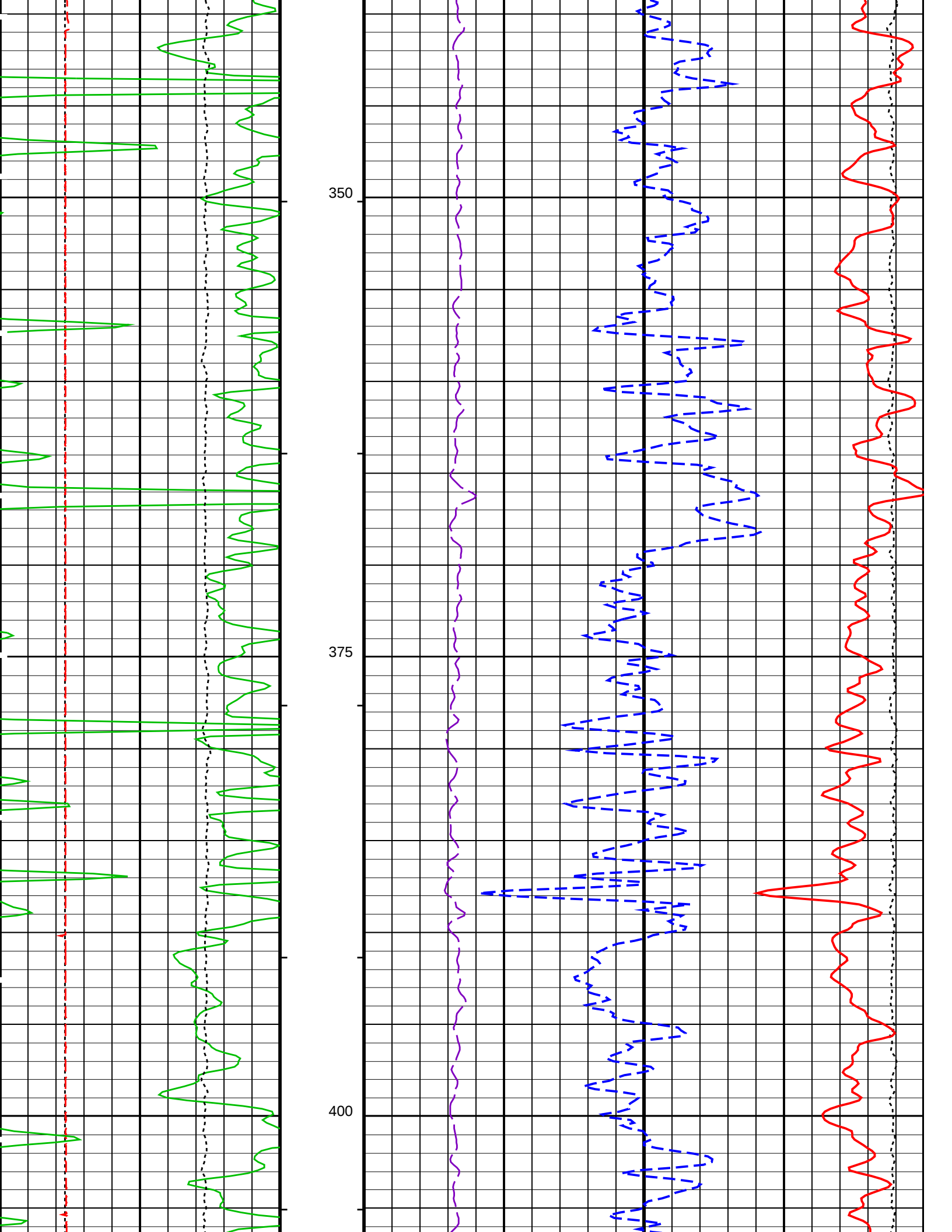
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

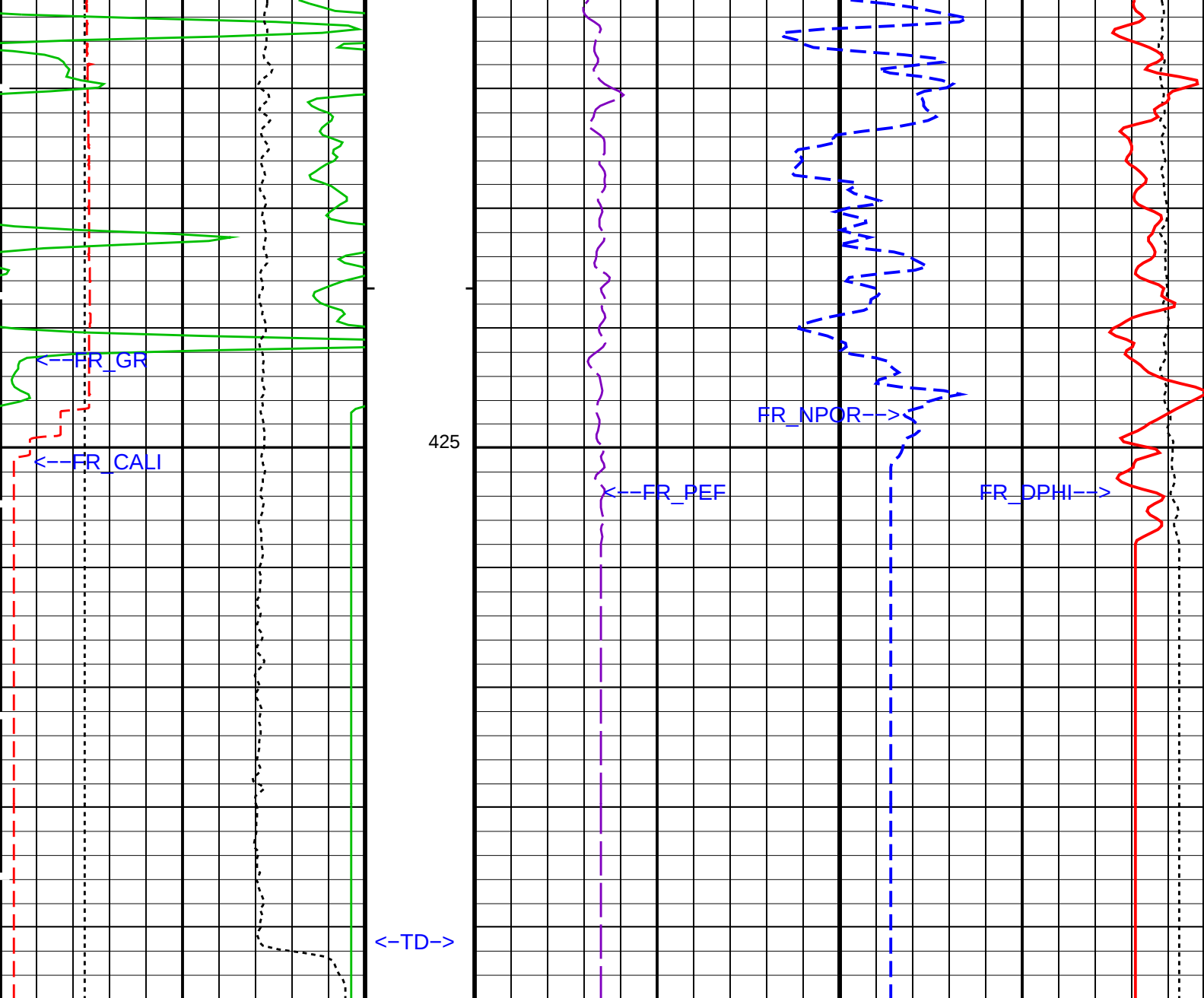












Bit Size (BS)	
(MM)	
50	250
Caliper (CALI)	
(MM)	
50	250
Gamma Ray (GR)	
(GAPI)	
0	150
Tension (TENS)	
(N)	
10000	0

DPHI for SAND (DPHI_SAN)	
(V/V)	
0.6	0
NPOR for SAND (NPOR_SAN)	
(V/V)	
0.6	0
PhotoElectric Factor (PEF)	
(-----)	
0	10
Bulk Density Correction (DRHO)	
(K/M3)	
450	-50

PIP SUMMARY	
└ Integrated Hole Volume Minor Pip Every 0.1 M3	
└ Integrated Hole Volume Major Pip Every 1 M3	
└ Integrated Cement Volume Minor Pip Every 0.1 M3	
└ Integrated Cement Volume Major Pip Every 1 M3	
Time Mark Every 60 S	

Parameters		
DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
ABHV	Array Induction Borehole Correction Code Version Number	900
ABLV	Array Induction Basic Logs Code Version Number	223
ACEN	Array Induction Tool Centering Flag (in Borehole)	Centered

ADITM	Array Induction Desired Tool Mode	0x00_Log_MudAutoMode_000	
AETP	Array Induction Enable Sonde Error Temp&Pres Corr	Temp_On_Pres_On	
AFRSV	Array Induction Response Set Version for Four ft Resolution	03.00.02.00	
AIGS	Array Induction Select Akima Interpolation Gating	On	
AIGS_SFL_IDFR	SFL Select Akima Interpolation Gating	On	
ALNV	Array Induction Log Not Valid Flag	Log_Not_Valid-Default_Parameters	
ARTS	AIT Rt Selection (for ALLRES computation)	IDFR_TwoResADeep	
ATRSV	Array Induction Response Set Version for Two ft Resolution	03.00.02.00	
ATSE_IDFR	IDFR Temperature RTD Selection(Sonde Error Correction)	RTD1	
AULV	Array Induction User Level Control	Normal	
BHC_SIGMA_T_INPUT	IDFR BHC Formation Conductivity Input	13R	
BHPRSRC_IDFR	IDFR Pressure Source	BHPR_IDFR	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
CRTM_IDFR	IDFR Current Tool Mode	0x00_Log_MudAutoMode_000	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_IDFR	IDFR Firmware Version	05.15.24	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
FPHI	Form Factor Porosity Source	DPHI	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISOD	Induction Standoff Outer Diameter	57.15	MM
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MFSZ_IDFR	IDFR Num Median Filter Elements	Disable	
PRTM_IDFR	IDFR Previous Tool Mode	0x00_Log_MudAutoMode_000	
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_IDFR	IDFR Computation Version	No Version Available	
RTCO	RTCO - Rt Invasion Correction	YES	
SHT	Surface Hole Temperature	20	DEGC
SPNV	SP Next Value	0	MV
TEMPSM_IDFR	IDFR Temperature RTD Selection Mode	Automatic	
ISLT-B: iFlex Sonic Logging Tool			
ACSR	Array Cycle Skip Recovery	ON	
ADPS	A/D Conversion Phase Shift	NONE	
AMSG	Auxilliary Minimum Sliding Gate	180	US
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BRUL_FT	Baseline Removal Upper Limit - Far Tx	0	US
BRUL_LT	Baseline Removal Upper Limit - Lower Tx	0	US
BRUL_UT	Baseline Removal Upper Limit - Upper Tx	0	US
CBAF	CBL Adjustment Factor	1	
CBLG	CBL Gate Width	50	US
CDTS	C-Delta-T Shale	328.084	US/M
CLUSTER_INT	Clustering Interval	6.096	M
COLL	Label Slowness Lower Limit - P & S Comp	131.234	US/M
COUL	Label Slowness Upper Limit - P & S Comp	590.551	US/M
DDE1	Digitizing Delay 1 - Upper Tx	40	US
DDE2	Digitizing Delay 2 - Lower Tx	40	US
DETE	Detection Peak	E2	
DFAD	DFAD Computation Control	DSP	
DFAD_ATC	DFAD Automatic Threshold Control	ON	
DFAD_INTERVAL_MODE	Detection Interval Mode for first arrival	TRACK	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ISLT	ISLT Firmware Version	03.13.10	
DLSR	Depth Log Sampling Rate	TT1.5_WF6	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
DSIN	Digitizing Sample Interval	10	US
DTCM	Delta-T Computation Mode	FULL	
DTCS	Compressional Delta-T Source	DT	
DTF	Delta-T Fluid	670.932	US/M
DTM	Delta-T Matrix	183.727	US/M
DTMAX	Maximum Valid Value for DT	656.168	US/M
DTMIN	Minimum Valid Value for DT	131.234	US/M
DTSS	Shear Delta-T Source	DTS_RA_UTx	
DWCO	Digitizing Word Count	256	
FILG	Label Fill Gap Control - P & S	COMP_SHEAR	
FIL LENG	STC Filter Length	21	
FULT	FTB Uplink Throughput for Sonic Tool	150	KB/S
GAI1	Gain Control 1 - Upper Tx	HIGH	
GAI2	Gain Control 2 - Lower Tx	HIGH	
GBHCL	Group BHC Limit	0.9	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GNFL	Group Near-Far Limit	0.9	
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GSEPL	Group Separation Limit	65.6168	US/M
GSIZL	Group Size Limit	0.3	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	

HOLE_DIA	Hole Diameter		
ISSBAR	Barite Mud Switch	BARITE	MM
ITTS	Integrated Transit Time Source	DT	
ITWI_FT	STC Integration Time Window – Far Tx	200	US
ITWI_LT	STC Integration Time Window – Lower Tx	160	US
ITWI_UT	STC Integration Time Window – Upper Tx	160	US
LFC	Label Formation Character – P & S	COMP_FIRST	
LPM_FT	Label Processing Mode – Far Tx	NONE	
LPM_LT	Label Processing Mode – Lower Tx	RECEIVER	
LPM_UT	Label Processing Mode – Upper Tx	RECEIVER	
MAHTR	Manual High Threshold Reference	40	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MNHTR	Minimum High Threshold Reference	30	
MODE	Sonic Firing Mode	STC_BHC_DT_256WF_1800FPH	
NFLG	STC Wave Normalization Flag	OFF	
NFLIM	Near-Far boundary distance	2.1336	M
NFPI_L5	Free Pipe amplitude for LT-R5	2500	
NFPI_U1	Free Pipe amplitude for UT-R1	2500	
NMSG	Near Minimum Sliding Gate	250	US
NMXG	Near Maximum Sliding Gate	750	US
NUMP	Number of Detection Passes	2	
NWI	Number of Waveform Items	6	
POWER_SAVE_TEST	ISLT Powersave test Mode	OFF	
PROC_INT	Processing Interval	3.048	M
PSTP	PSTC Tool Position on CAN Bus	1	
R42R	R4 to R2 Sensitivity Ratio	0	DB/M
RACO	Ray Angle Compensation	0.0109547	M
RATE	Sonic Firing Rate	12.5	HZ
REJREP	Reject Repeated Transit Times	ALLOW	
RSMN	Label Shear/Comp Minimum Ratio – P & S	1.4	
RSMX	Label Shear/Comp Maximum Ratio – P & S	2.12	
SALL	Sonic Amplitude Lower Limit	20	
SBOF_FT	STC Search Band Offset – Far Tx	230	US
SBOF_LT	STC Search Band Offset – Lower Tx	190	US
SBOF_UT	STC Search Band Offset – Upper Tx	190	US
SBWI_FT	STC Search Band Width – Far Tx	1580	US
SBWI_LT	STC Search Band Width – Lower Tx	860	US
SBWI_UT	STC Search Band Width – Upper Tx	860	US
SDL	Standard Deviation Acceptance Limit	2.5	
SDTH	Switch Down Threshold	29490	
SEMTHR	STC Semblance Threshold	0.25	
SENSOR_DIA	Sensor Diameter	19.05	MM
SFAF	Sonic Formation Attenuation Factor	0	DB/M
SGAD	Sliding Gate Allow/Disallow	ON	
SGCL	Sliding Gate Closing Delta-T	558	US/M
SGCW	Sliding Gate Closing Width	33	US
SGDT	Sliding Gate Delta-T	131	US/M
SGW	Sliding Gate Width	80	US
SHLL	Label Slowness Lower Limit – P & S Shear	246.063	US/M
SHORT_FRAME_MODE	ISLT Short Frame Mode	OFF	
SHT	Surface Hole Temperature	20	DEGC
SHUL	Label Slowness Upper Limit – P & S Shear	787.402	US/M
SLEV	Signal Level for Threshold Control	5000	
SLL	STC Slowness Lower Limit	131.234	US/M
SNRLL	Signal-to-Noise Ratio Lower Limit	25	DB
SPFS	Sonic Porosity Formula	RAYMER_HUNT	
SPM_FT	STC Processing Mode – Far Tx	NONE	
SPM_LT	STC Processing Mode – Lower Tx	RECEIVER	
SPM_UT	STC Processing Mode – Upper Tx	RECEIVER	
SPSO	Sonic Porosity Source	DTCO	
SSTE	STC Slowness Step	6.56168	US/M
STC_LCF	STC Low Cutoff Freq.	2000	HZ
STHR	Separation Threshold	32.8084	US/M
SUL	STC Slowness Upper Limit	787.402	US/M
SUTH	Switch Up Threshold	3276	
SWID_FT	STC Slowness Width – Far Tx	65.6168	US/M
SWID_LT	STC Slowness Width – Lower Tx	65.6168	US/M
SWID_UT	STC Slowness Width – Upper Tx	65.6168	US/M
T12_TTMAX	T12 TT Intercept Maximum	492.126	US/M
T12_TTMIN	T12 TT Intercept Minimum	-164.042	US/M
T3_TTMAX	T3 TT Intercept Maximum	656.168	US/M
T3_TTMIN	T3 TT Intercept Minimum	-164.042	US/M
TBF_FT	STC Time for Baseline Fill – Far Tx	0	US
TBF_LT	STC Time for Baseline Fill – Lower Tx	0	US
TBF_UT	STC Time for Baseline Fill – Upper Tx	0	US
TFSI	Filter Sample Interval	0.3048	M
TFWL	Filter Window Length	0.6096	M
TLL_FT	STC Time Lower Limit – Far Tx	280	US
TLL_LT	STC Time Lower Limit – Lower Tx	120	US
TLL_UT	STC Time Lower Limit – Upper Tx	120	US
TP_FRAME	ISLT Test Phase Frame	OFF	
TSTE	STC Time Step	40	US
TTPROC_ALGSEL	Algorithm Select	CLUSTER	
TUL_FT	STC Time Upper Limit – Far Tx	2590	US
TUL_LT	STC Time Upper Limit – Lower Tx	420	US
TUL_UT	STC Time Upper Limit – Upper Tx	420	US

TUL_LT	STC Time Upper Limit - Lower Tx	1340	US
TUL_UT	STC Time Upper Limit - Upper Tx	1340	US
TWID_FT	STC Time Width - Far Tx	1190	US
TWID_LT	STC Time Width - Lower Tx	660	US
TWID_UT	STC Time Width - Upper Tx	660	US
ULTR	Upper to Lower Tx Power Ratio	0	DB/M
VDLG	VDL Manual Gain	5	
VDM	VDL Display Mode	NONE	
WMAG	DFAD Waveform Magnifier	1	
WPS1	Waveform Plot Selection 1	R1	
WPS2	Waveform Plot Selection 2	R5	
ZCGW	Zero Crossing Gate Width	100	US
ZCTT	Option to compute Zero Crossing Transit Time	OFF	
ILDT-B: iFlex Litho Density Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
DALPO	Density Alpha Processing Option	NO	
DFT_IFLEX	Drilling Fluid Type	WATER	
DHC	Density Hole Correction	BS	
DHNV_ICEC	ICEC Firmware Version	08.15.16	
DHNV_IPDP	IPDP Firmware Version	06.15.16	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1000	K/M3
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2650	K/M3
PSTP	PSTC Tool Position on CAN Bus	1	
PVN_ICEC	ICEC Computation Version	1.000	
PVN_IPDP	IPDP Computation Version	2.008	
SHT	Surface Hole Temperature	20	DEGC
TBHDS_ILDT	ILDT Tool Borehole Diameter Source	CALI	
ITGN-B: iFlex Telemetry Gamma Neutron Tool			
BARI_ITGN	Tractor Available in Tool String	YES	
BHS	Barite Mud Presence Flag	YES	
BHT	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	YES	
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
CSID	Casing Size I.D.	4.13386	IN
DFT_IFLEX	Drilling Fluid Type	WATER	
DHNV_ITGN	ITGN Firmware Version	06.15.15	
DPPM_IFLEX	iFlex Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MWCO	Mud Weight Correction Option	NO	
NICO	Neutron Interference Correction Option	YES	
PSTP	PSTC Tool Position on CAN Bus	1	
PTCO	Pressure Temperature Correction Option	NO	
PVN_ITGN	ITGN Computation Version	1.005	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TBHDS	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGC
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	IDFR_RESIST	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			

LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth – Driller	444.80	M
TDL	Total Depth – Logger	445.80	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	96.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	114.300	MM
CWEI	Casing Weight	40.00	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.2	M
FLEV	Fluid Level	0.00	M
MST	Mud Sample Temperature	10.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	445.8	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: SAND_60 Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

REPEAT ANALYSIS

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41	446.5 M	319.9 M
---------	----------------------------	-------	----------	-------------------	---------	---------

Integrated Hole/Cement Volume Summary

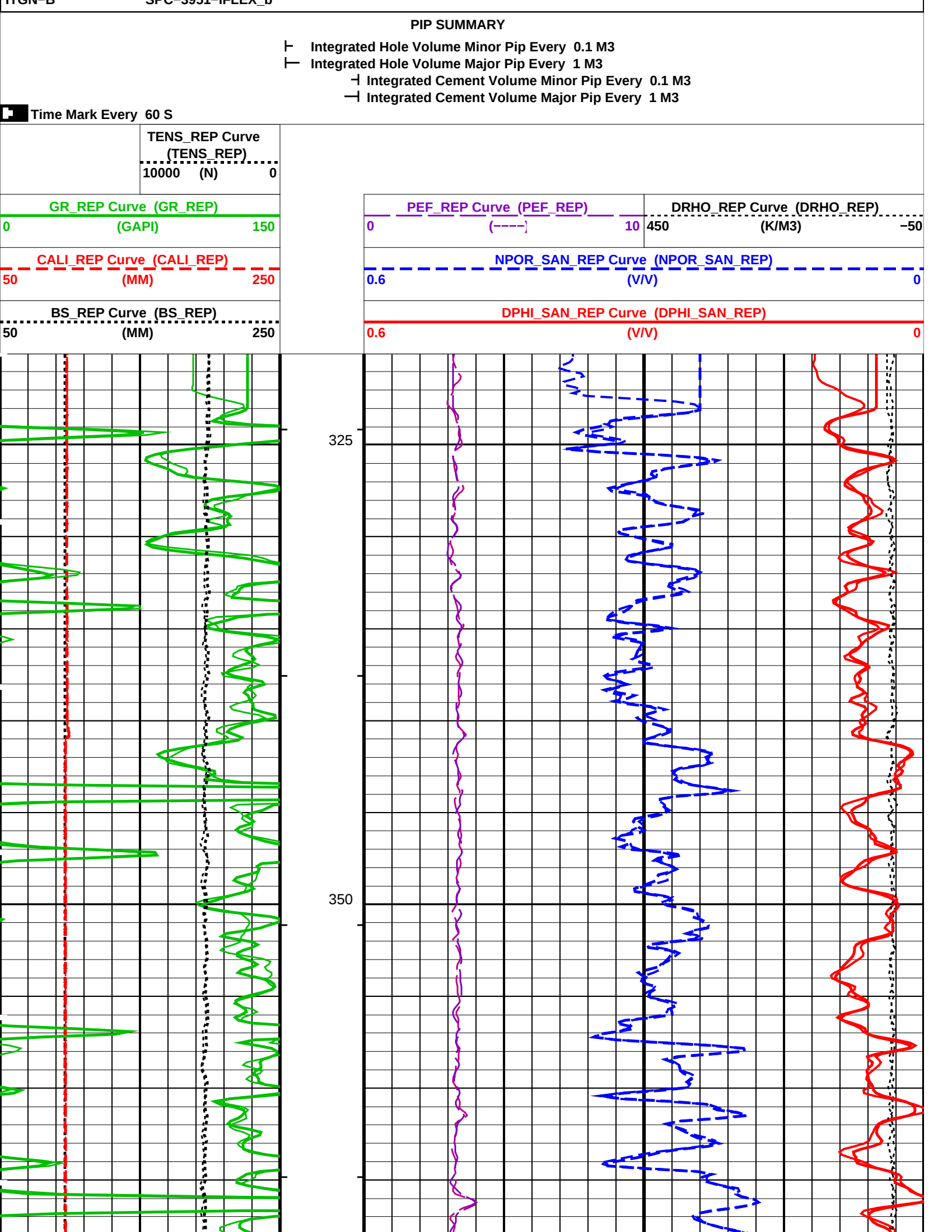
Hole Volume = 0.83 M3

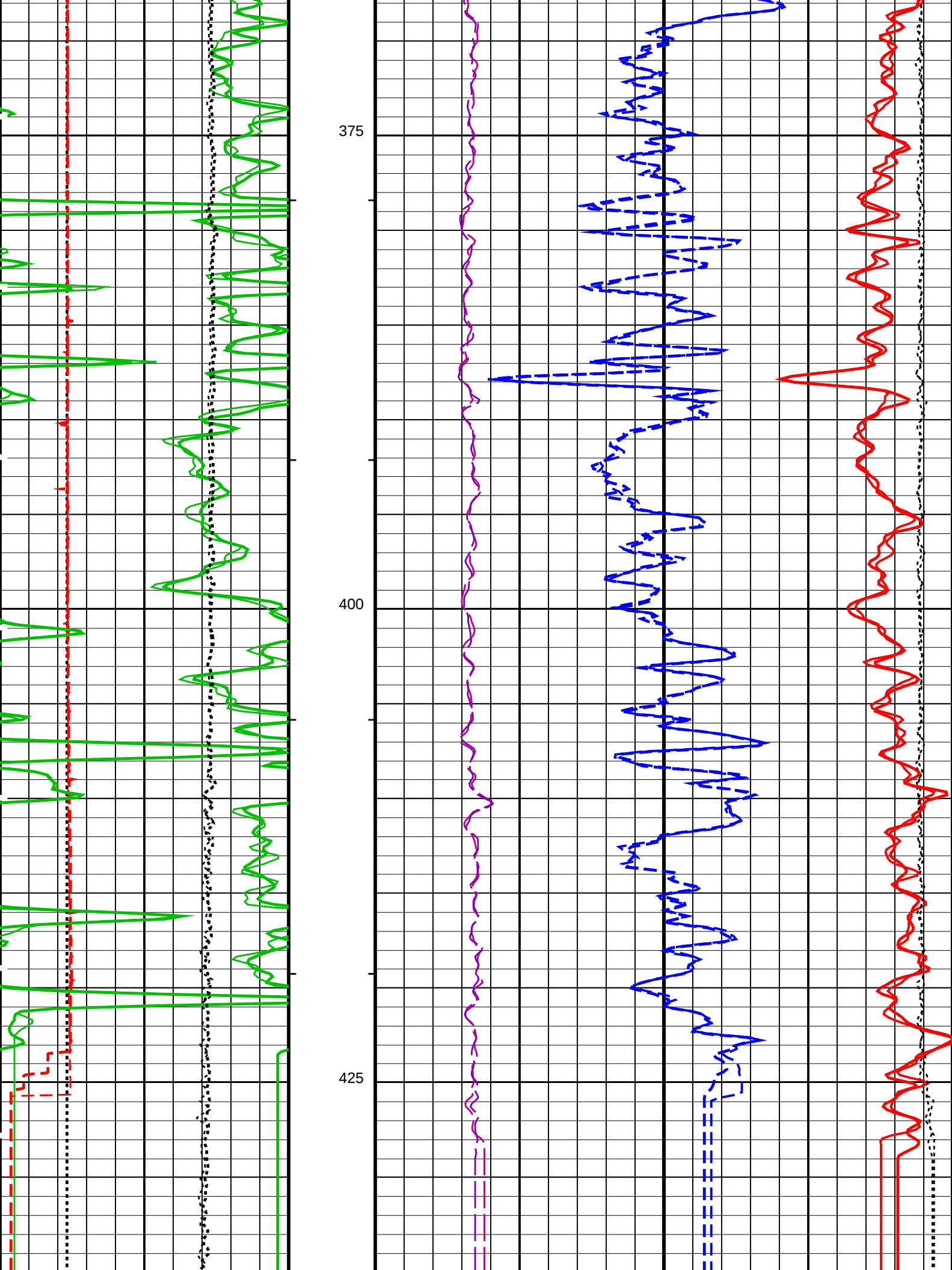
Cement Volume = 0.83 M3 (assuming 0.00 MM casing O.D.)

Computed from 445.8 M to 320.0 M using data channel(s) CALI

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		





TBHD	Tool Borehole Diameter Source	CALI	
TBHTS	Tool Borehole Temperature Source	GTSE	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	0	MM
GCSE	Generalized Caliper Selection	CALI	
HVCS	Integrated Hole Volume Caliper Selection	CALI	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
	System and Miscellaneous		
BS	Bit Size	96.000	MM
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	114.300	MM
CWEI	Casing Weight	40.00	KG/M
DFD	Drilling Fluid Density	1170.00	K/M3
DO	Depth Offset for Playback	-2.0	M
DORL	Depth Offset for Repeat Analysis	0.0	M
MST	Mud Sample Temperature	10.00	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	0.3200	OHMM
TD	Total Depth	445.8	M

Format: SAND_60_REP Vertical Scale: 1:240 Graphics File Created: 31-Mar-2010 15:41

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_018LUP	FN:17	PRODUCER	30-Mar-2010 02:35	448.1 M	321.9 M
DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_038PUP	FN:37	PRODUCER	31-Mar-2010 15:41		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

High Resolution Pass
1:120

MAXIS Field Log

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38	448.1 M	83.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Integrated Hole/Cement Volume Summary

Hole Volume = 2.50 M3

Cement Volume = 2.50 M3 (assuming 0.00 MM casing O.D.)

Computed from 445.8 M to 101.0 M using data channel(s) CALI

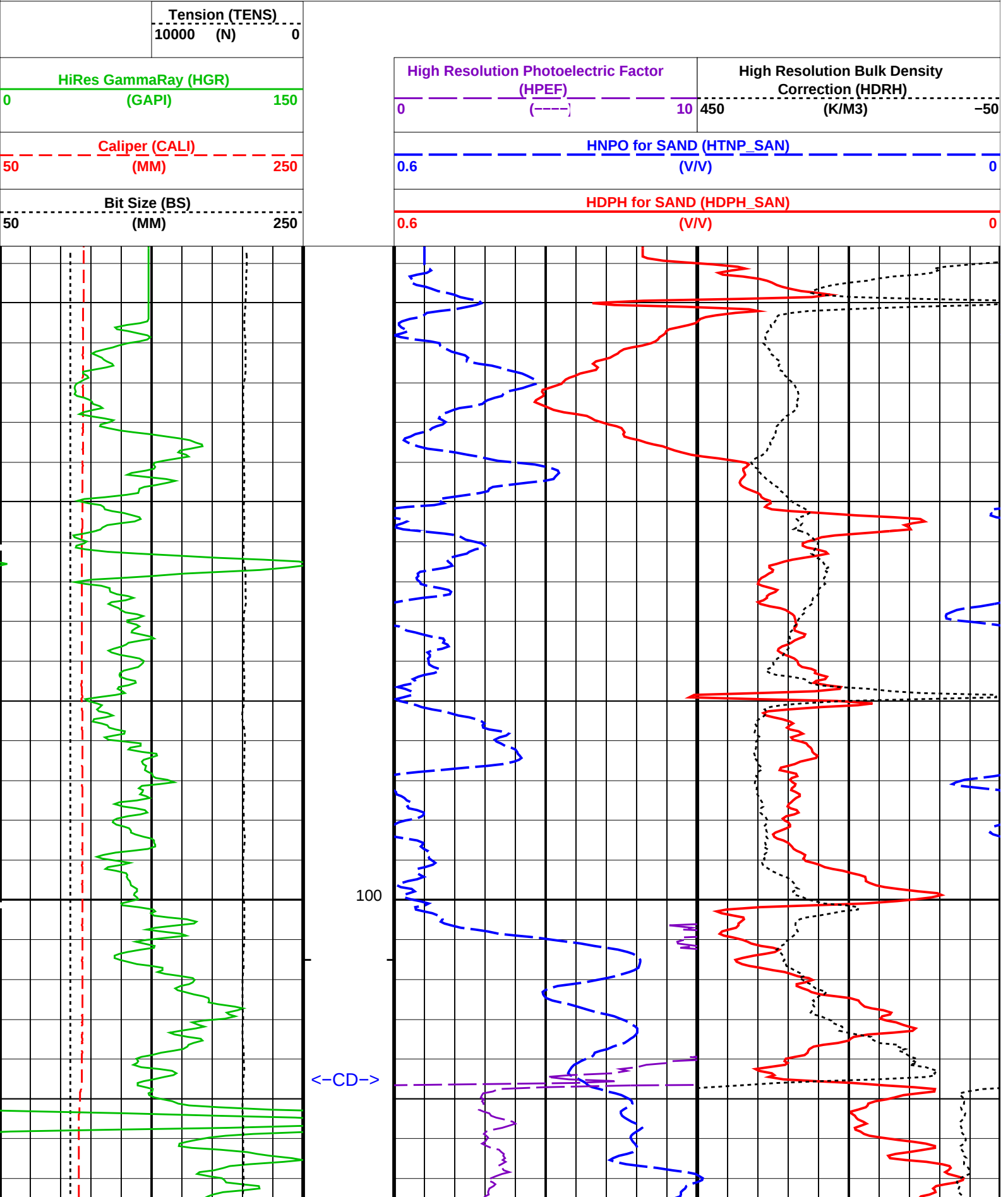
OP System Version: 17C0-154

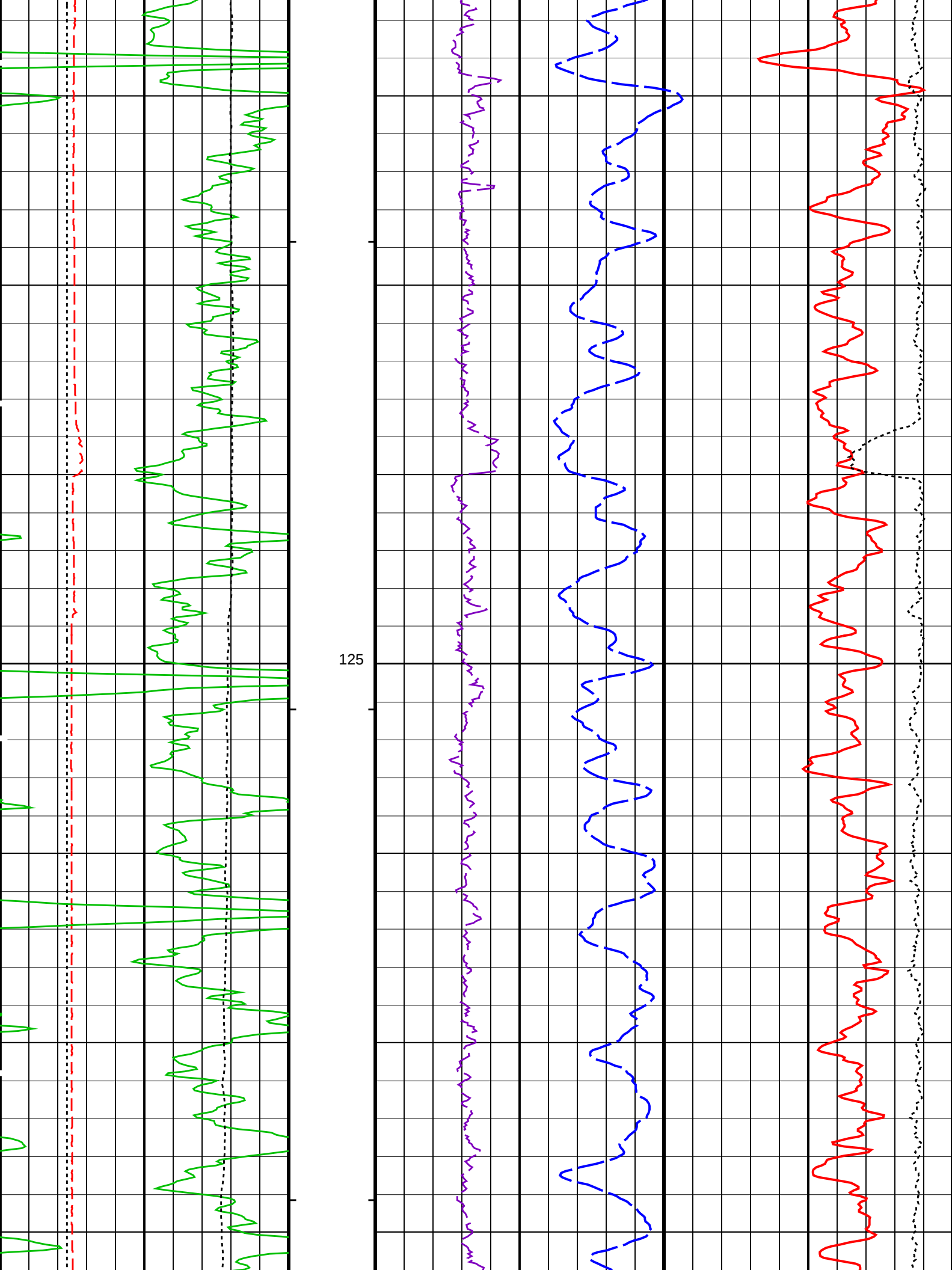
IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILDT-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

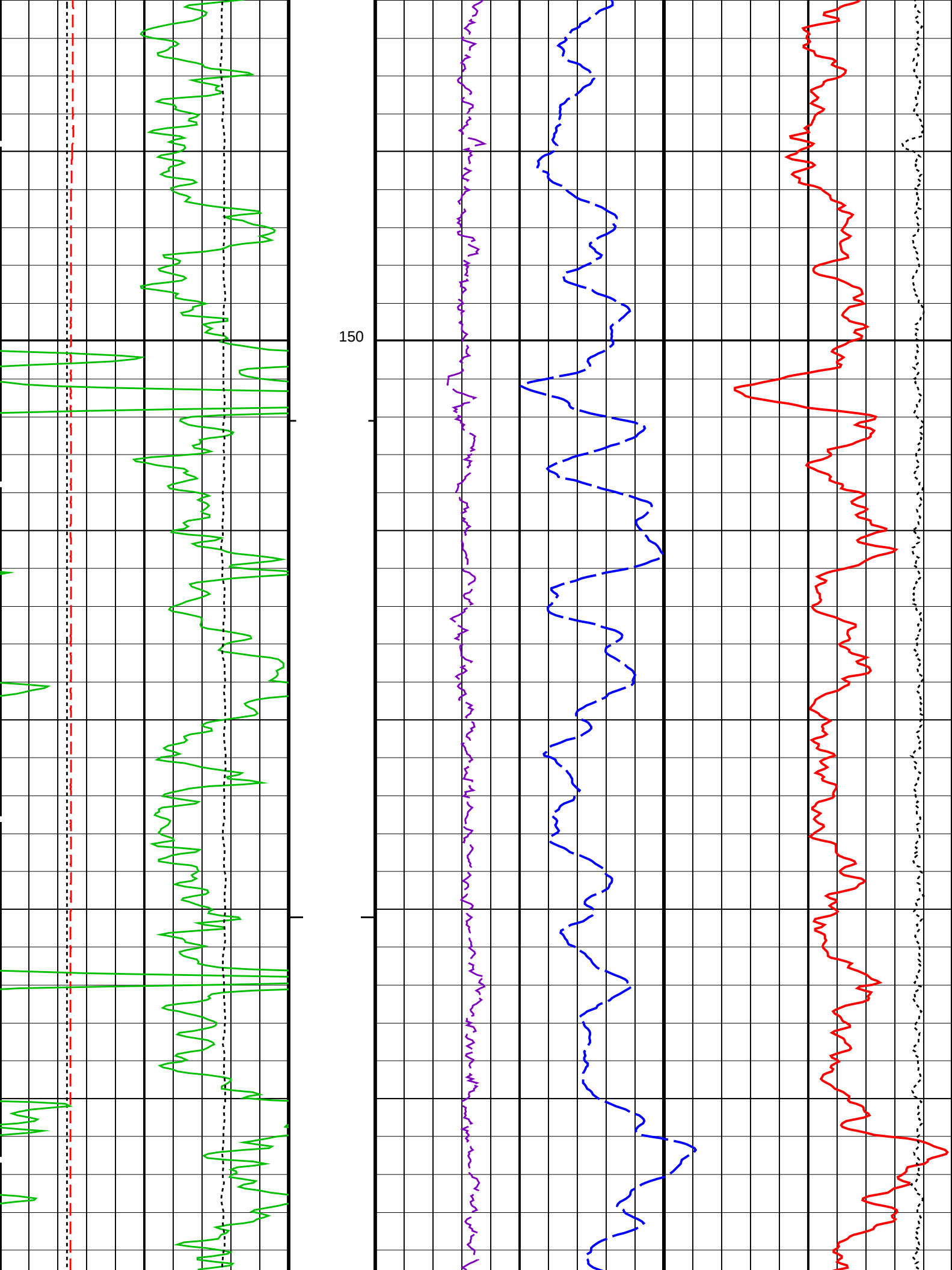
PIP SUMMARY

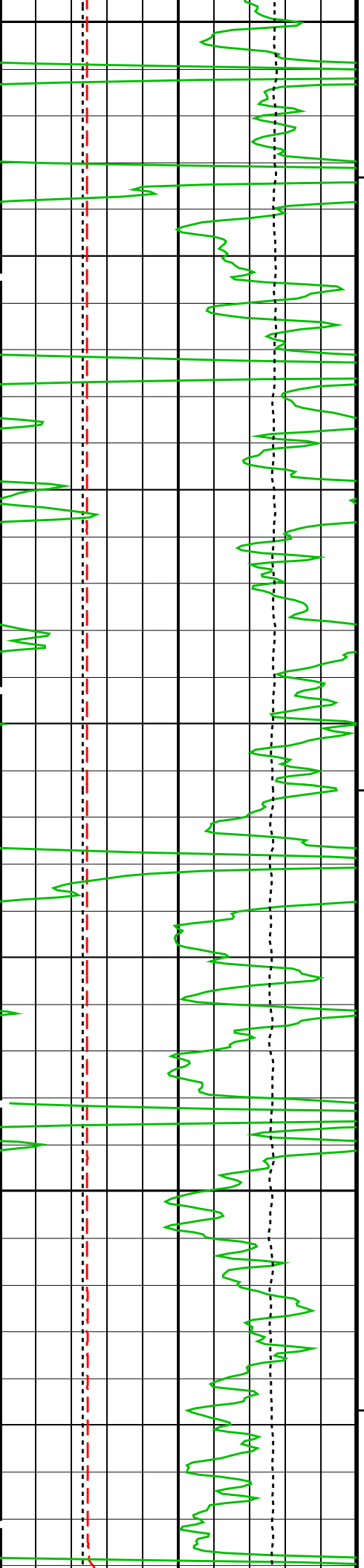
- └ Integrated Hole Volume Minor Pip Every 0.1 M3
- └ Integrated Hole Volume Major Pip Every 1 M3
 - └ Integrated Cement Volume Minor Pip Every 0.1 M3
 - └ Integrated Cement Volume Major Pip Every 1 M3

Time Mark Every 60 S



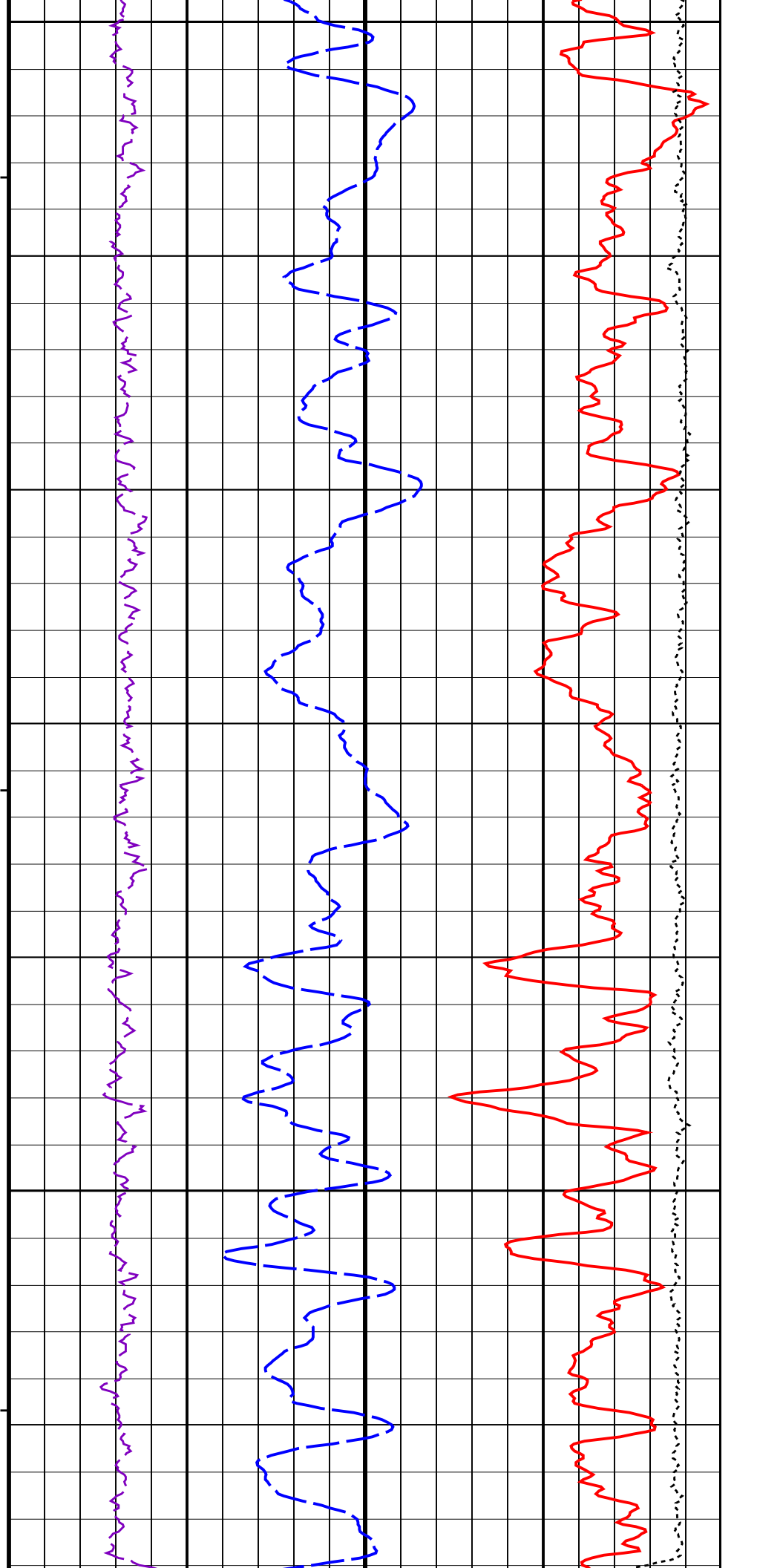


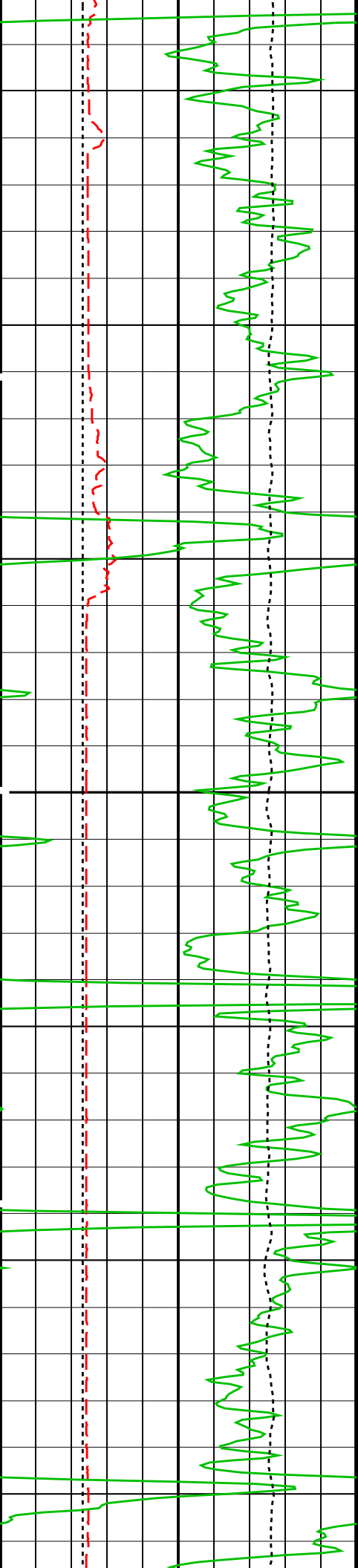




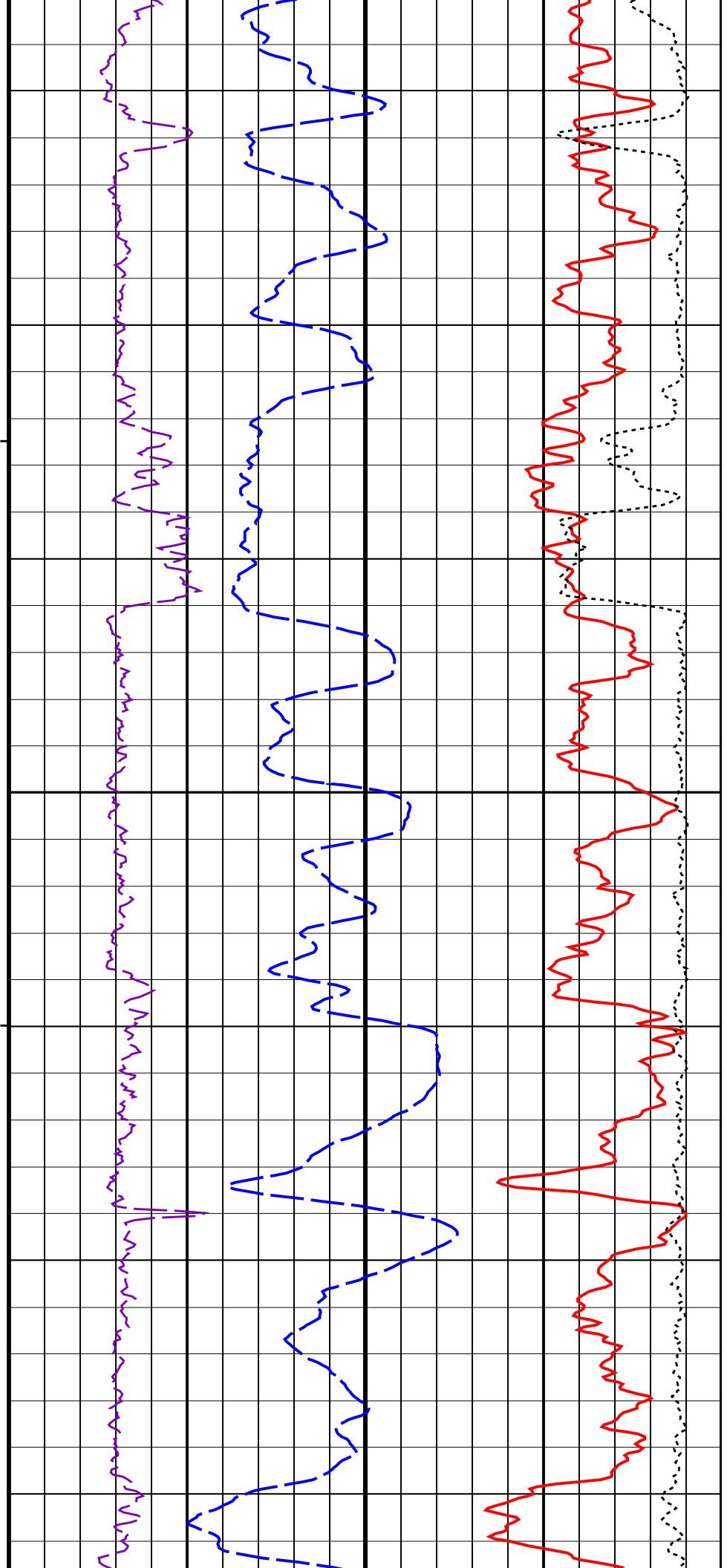
175

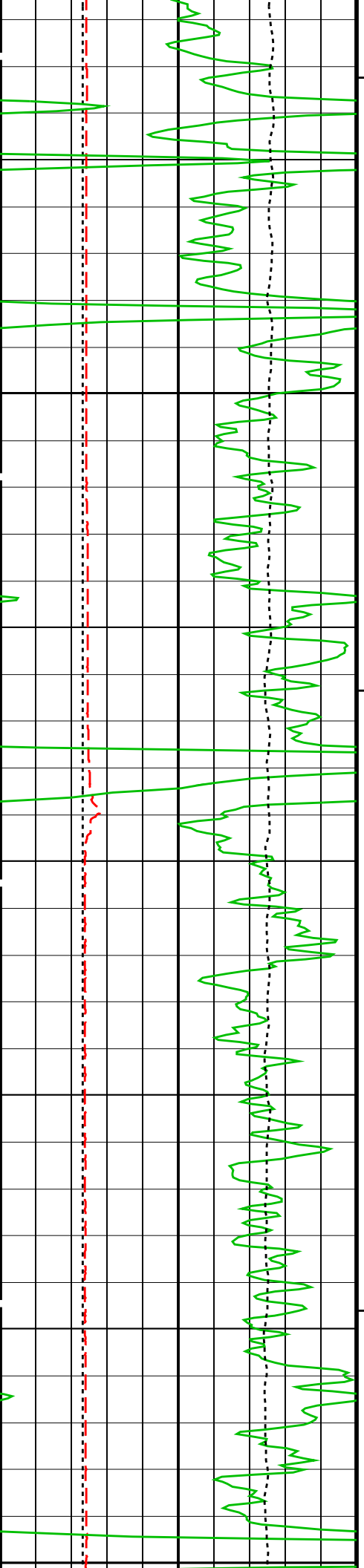
200





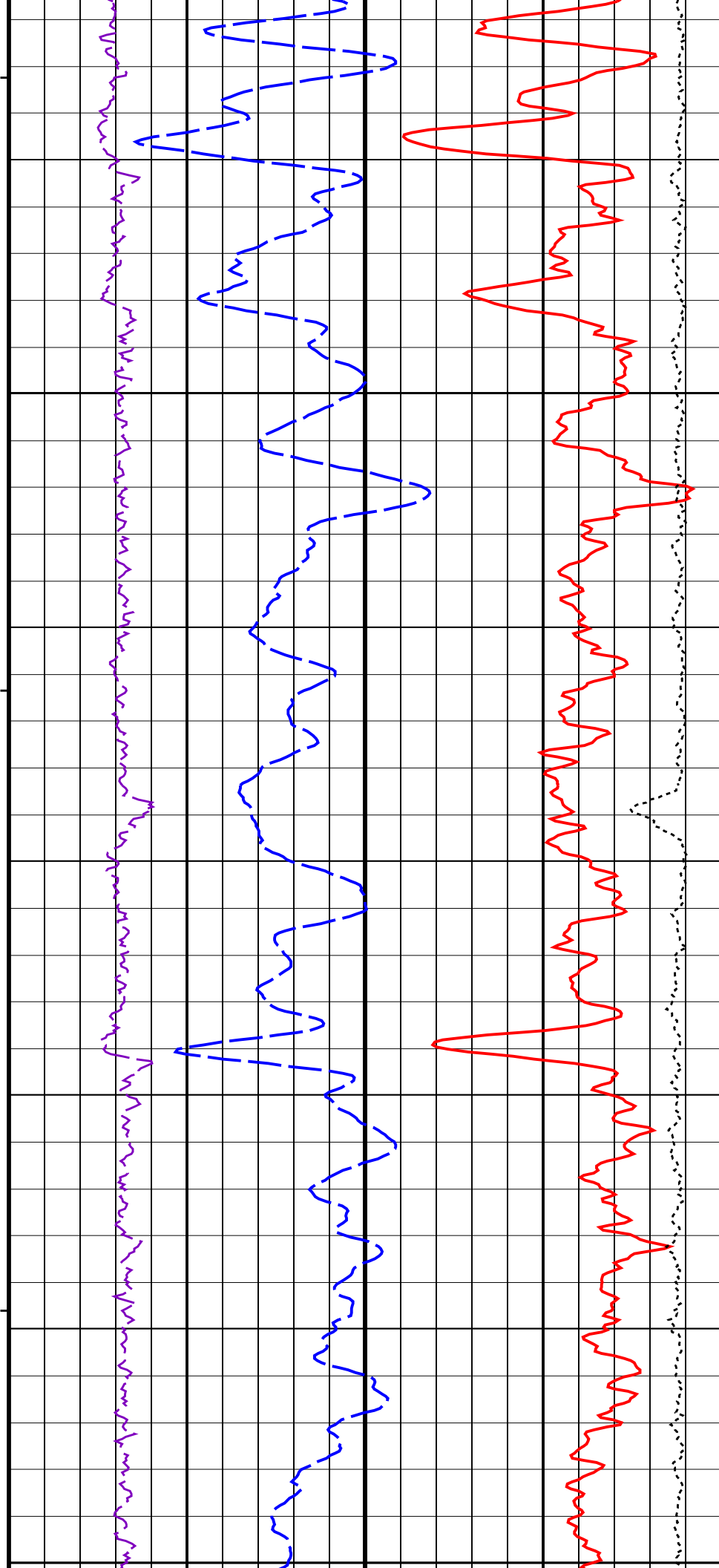
225

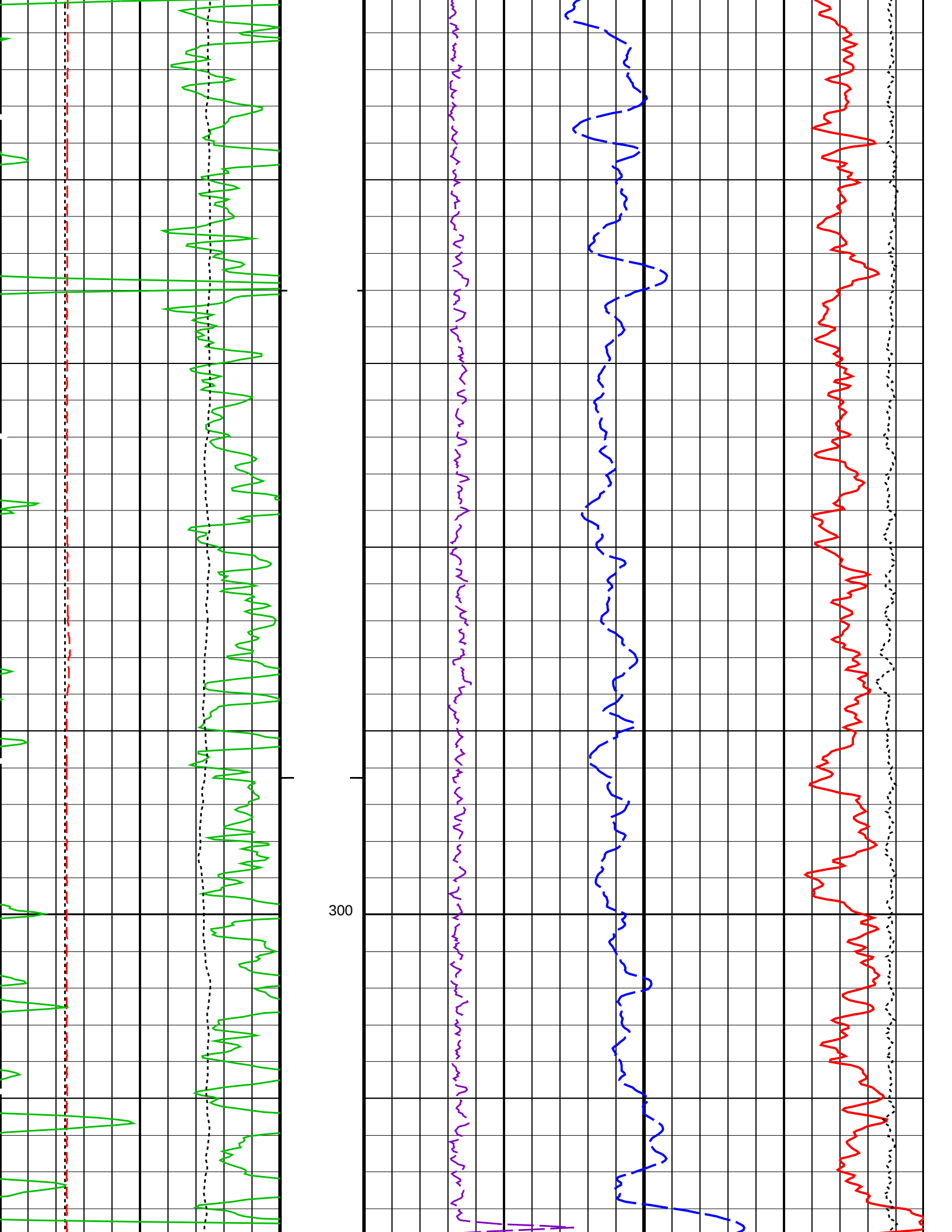


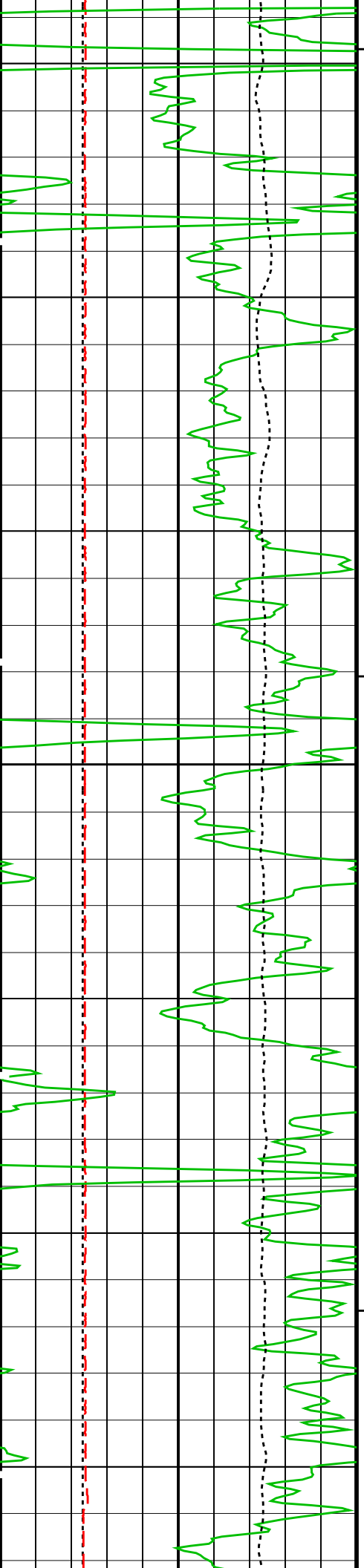


250

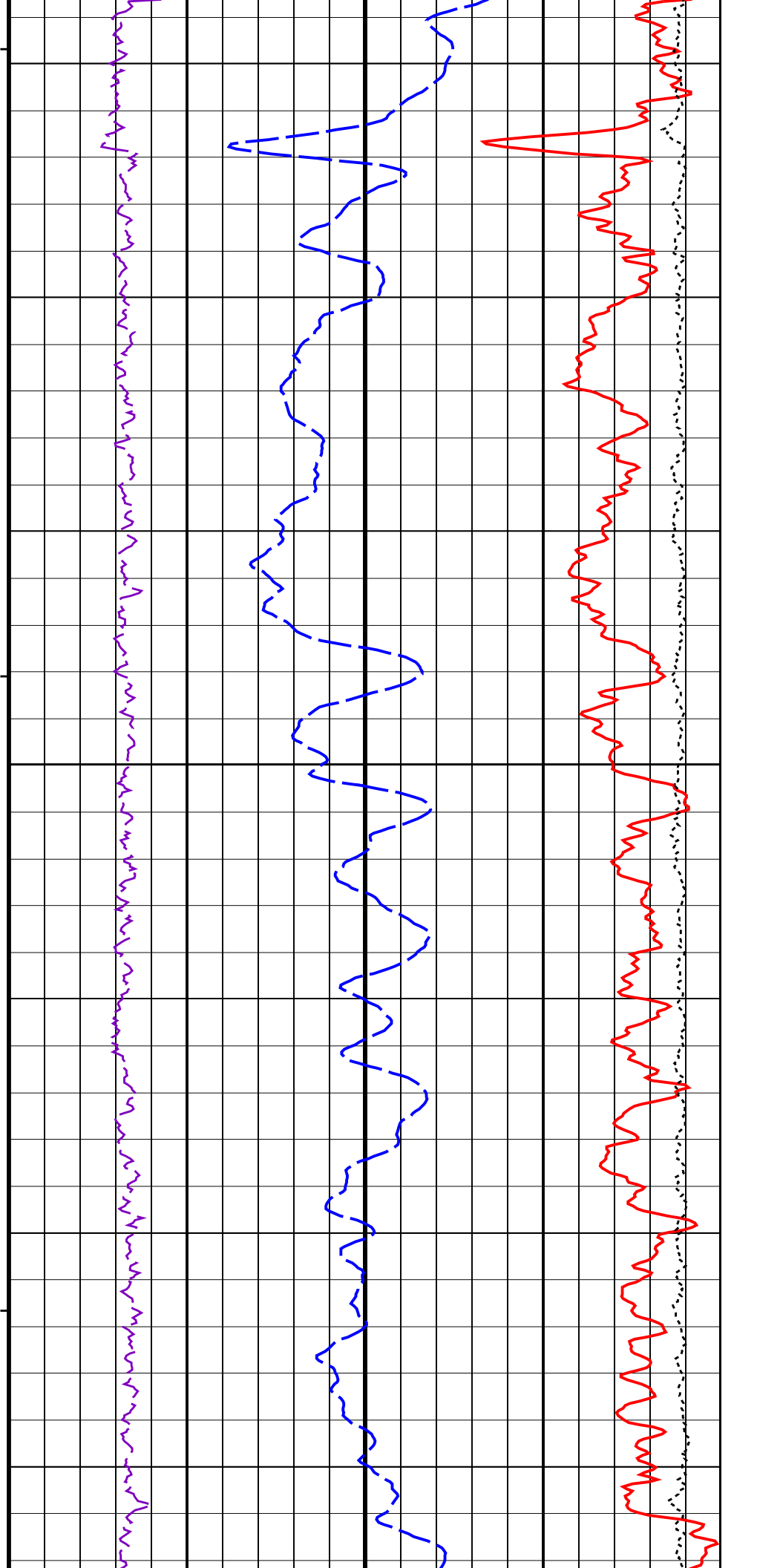
275

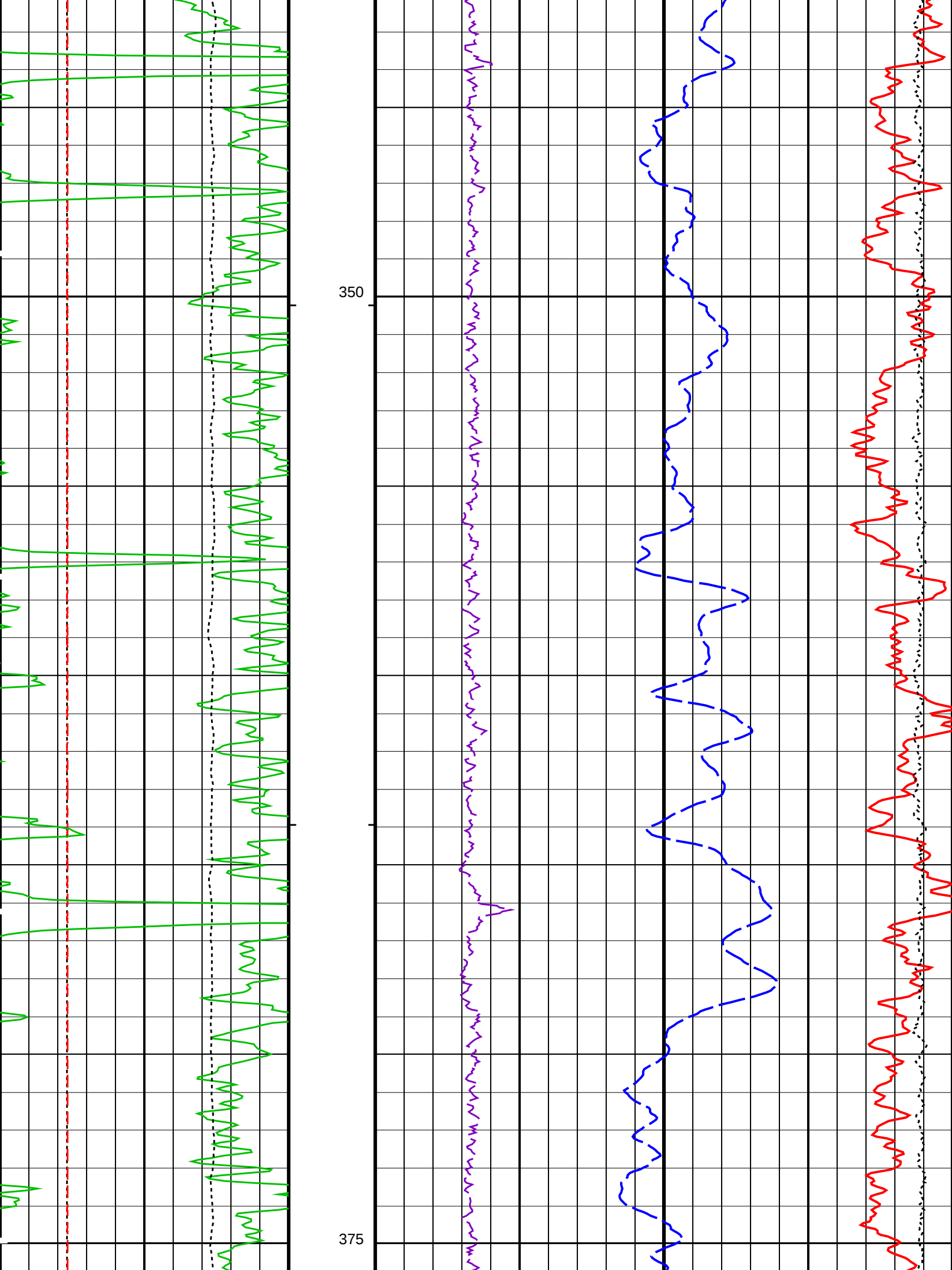


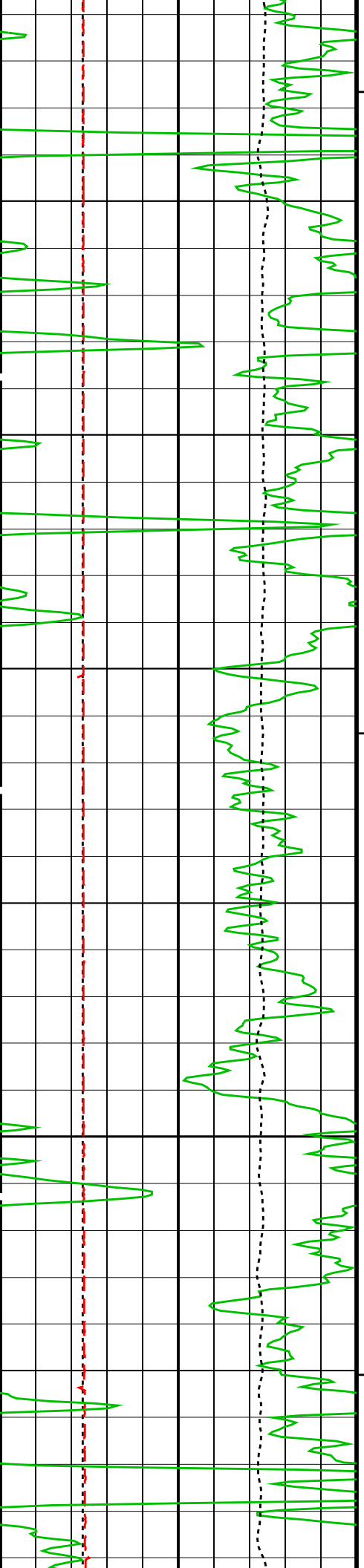




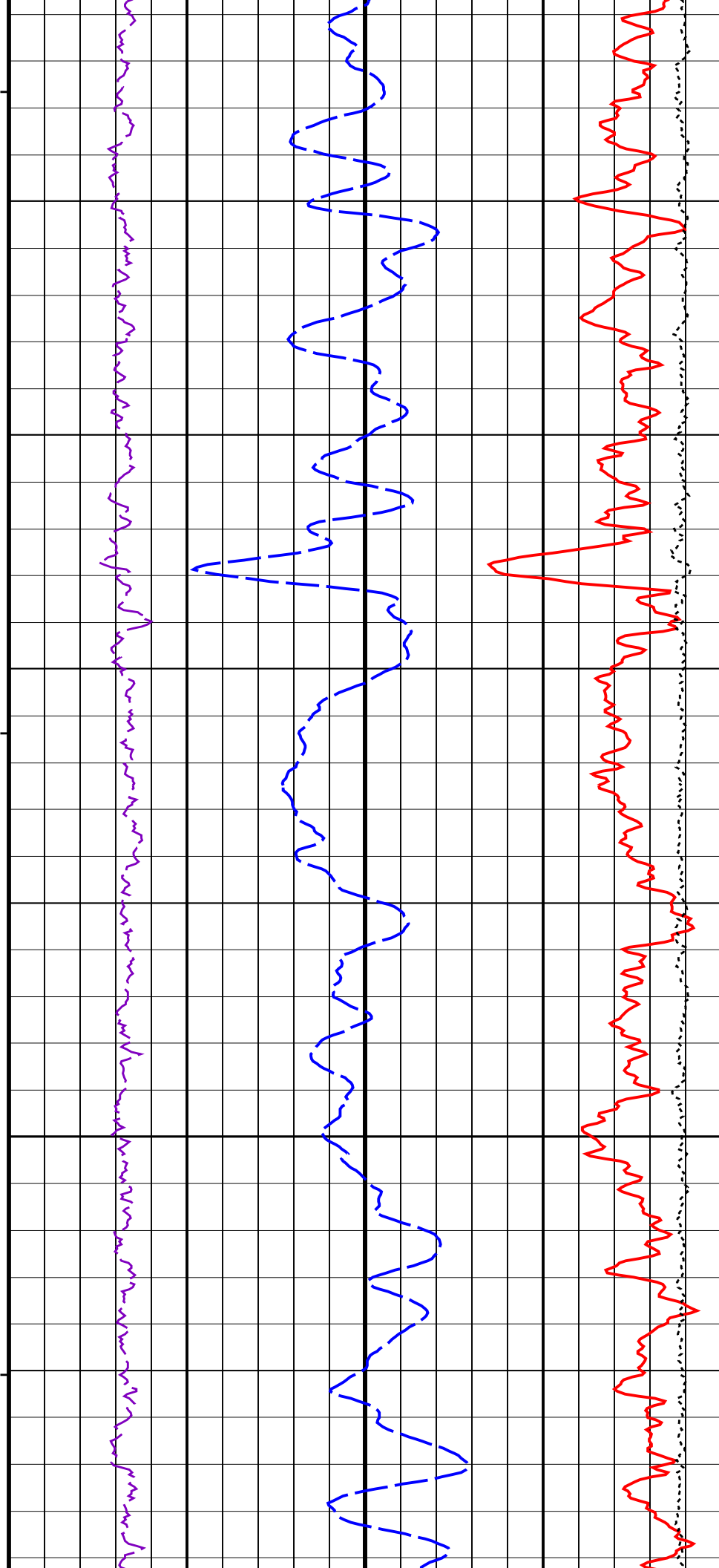
325

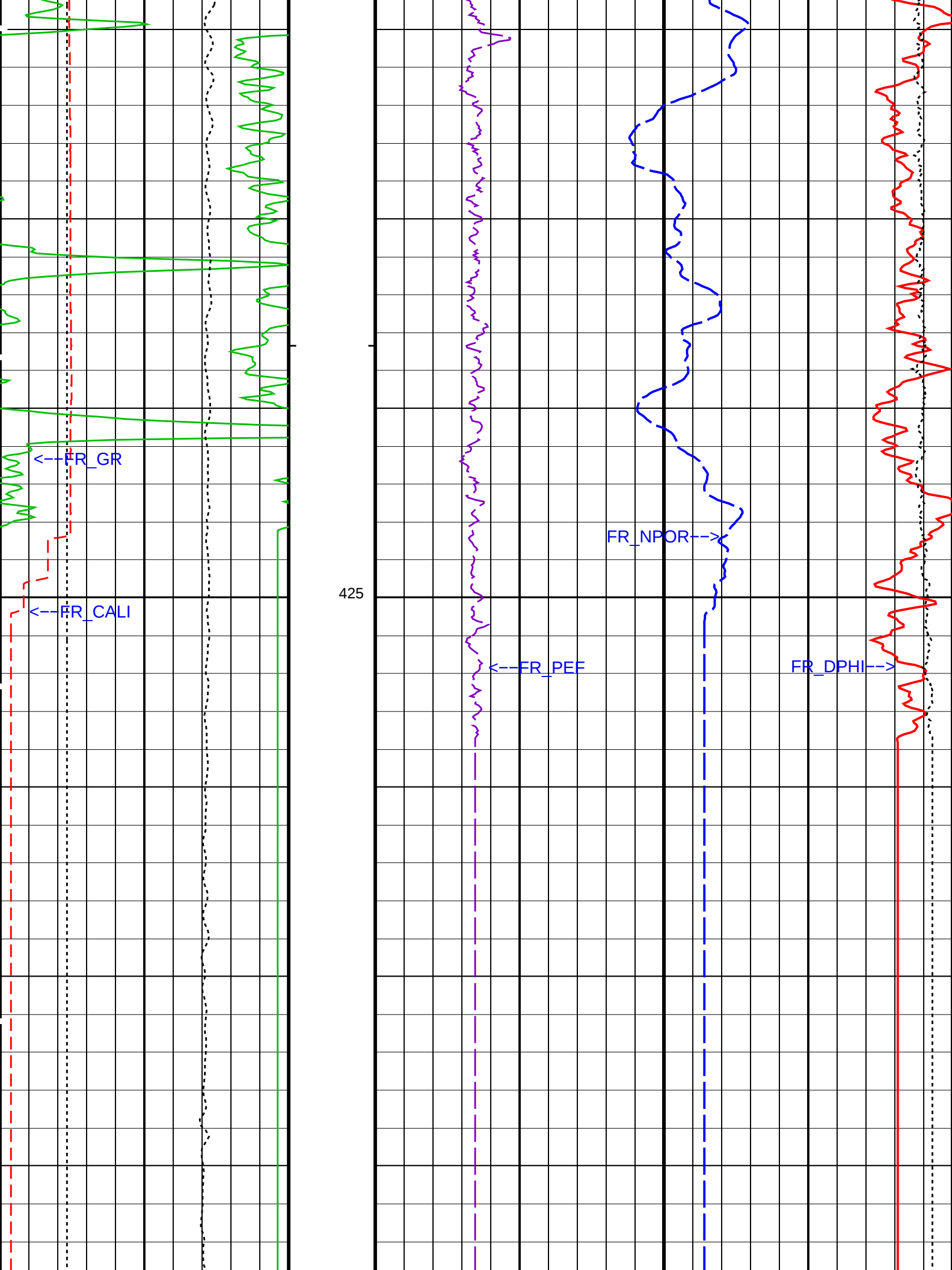


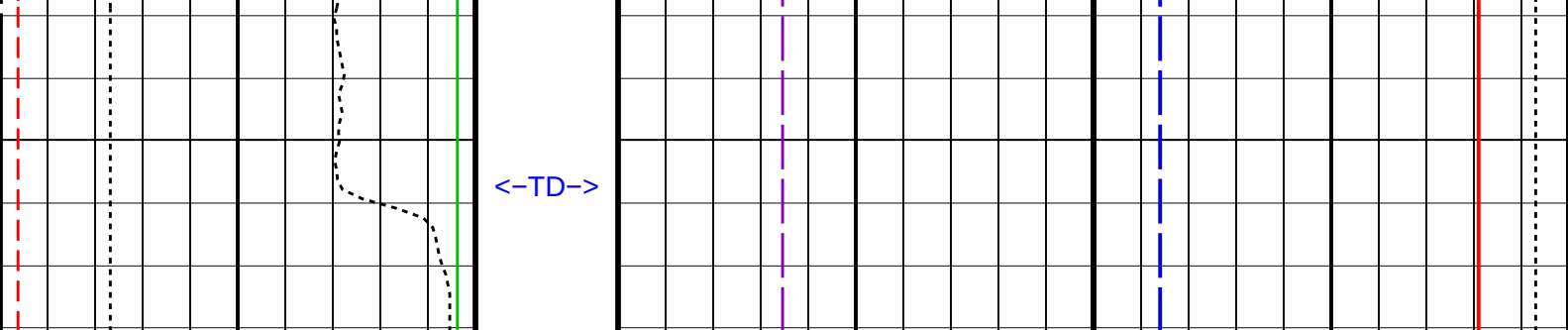




400







Bit Size (BS) 50 (MM) 250		HDPH for SAND (HDPH_SAN) 0.6 (V/V) 0	
Caliper (CALI) 50 (MM) 250		HNPO for SAND (HTNP_SAN) 0.6 (V/V) 0	
HiRes GammaRay (HGR) 0 (GAPI) 150		High Resolution Photoelectric Factor (HPEF) 0 (----) 10	High Resolution Bulk Density Correction (HDRH) 450 (K/M3) -50
Tension (TENS) 10000 (N) 0			

PIP SUMMARY	
└ Integrated Hole Volume Minor Pip Every 0.1 M3	
└ Integrated Hole Volume Major Pip Every 1 M3	
└ Integrated Cement Volume Minor Pip Every 0.1 M3	
└ Integrated Cement Volume Major Pip Every 1 M3	
Time Mark Every 60 S	

Parameters		
DLIS Name	Description	Value
IDFR-E: iFlex Dual Formation Resistivity Tool		
BHS	Borehole Status	OPEN
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
ISLT-B: iFlex Sonic Logging Tool		
BHS	Borehole Status	OPEN
DFT_IFLEX	Drilling Fluid Type	WATER
GCSE	Generalized Caliper Selection	CALI
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
ILDLT-B: iFlex Litho Density Tool		
BHS	Borehole Status	OPEN
DFT_IFLEX	Drilling Fluid Type	WATER
DHNV_ICEC	ICEC Firmware Version	08.15.16
DHNV_IPDP	IPDP Firmware Version	06.15.16
FD	Fluid Density	1000 K/M3
GCSE	Generalized Caliper Selection	CALI
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MDEN	Matrix Density	2650 K/M3
PVN_ICEC	ICEC Computation Version	1.000
PVN_IPDP	IPDP Computation Version	2.008
TBHDS_ILDT	ILDLT Tool Borehole Diameter Source	CALI
ITGN-B: iFlex Telemetry Gamma Neutron Tool		
BARI_ITGN	Barite Mud Presence Flag	YES
BHS	Borehole Status	OPEN
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	YES
DFT_IFLEX	Drilling Fluid Type	WATER
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCSE	Generalized Caliper Selection	CALI
HSCO	Hole Size Correction Option	YES
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE
MCCO	Mud Cake Correction Option	NO
MWCO	Mud Weight Correction Option	NO
NICO	Neutron Interference Correction Option	YES
PTCO	Pressure Temperature Correction Option	NO
PVN_ITGN	ITGN Computation Version	1.005
SDAT	Standoff Data Source	SOCN
SOCN	Standoff Distance	0 IN
SOCO	Standoff Correction Option	NO
TBHDS	Tool Borehole Diameter Source	CALI

TBHTS	HOLEV: Integrated Hole/Cement Volume	Tool Borehole Temperature Source	GTSE	
BHS	Borehole Status		OPEN	
FCD	Future Casing (Outer) Diameter		0	MM
GCSE	Generalized Caliper Selection		CALI	
HVCS	Integrated Hole Volume Caliper Selection		CALI	
MATR	Rock Matrix for Neutron Porosity Corrections		SANDSTONE	
	STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label		TDL	
STKT	STI Stuck Threshold		0.762	M
TDD	Total Depth – Driller		444.80	M
TDL	Total Depth – Logger		445.80	M
	System and Miscellaneous			
BS	Bit Size		96.000	MM
BSAL	Borehole Salinity		-50000.00	PPM
CSIZ	Current Casing Size		114.300	MM
CWEI	Casing Weight		40.00	KG/M
DFD	Drilling Fluid Density		1170.00	K/M3
DO	Depth Offset for Playback		-2.2	M
MST	Mud Sample Temperature		10.00	DEGC
PP	Playback Processing		NORMAL	
RMFS	Resistivity of Mud Filtrate Sample		0.3200	OHMM
TD	Total Depth		445.8	M

Format: HIRS_SAND_60 Vertical Scale: 1:120 Graphics File Created: 31-Mar-2010 13:38

OP System Version: 17C0-154

IDFR-E	SPC-3951-IFLEX_b	ISFL-A	SPC-3951-IFLEX_b
ISLT-B	SPC-3951-IFLEX_b	ILD-T-B	SPC-3951-IFLEX_b
ITGN-B	SPC-3951-IFLEX_b		

Input DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_020LUP	FN:19	PRODUCER	30-Mar-2010 02:57	449.6 M	85.5 M
---------	----------------------------	-------	----------	-------------------	---------	--------

Output DLIS Files

DEFAULT	IDL_SFL_SLT_LDL_CNL_032PUP	FN:31	PRODUCER	31-Mar-2010 13:38		
---------	----------------------------	-------	----------	-------------------	--	--

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
iFlex Dual Formation Resistivity Tool Wellsite Calibration – Test Loop Gain Correction							
Master: 6-Mar-2010 4:30							
Test Loop Gain Correctio – 0	0	0.9956	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	1.014	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	1.011	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 0	0	-1.461	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 1	0	-0.9576	N/A	N/A	N/A	N/A	V
Test Loop Gain Correctio – 2	0	-2.034	N/A	N/A	N/A	N/A	V
iFlex Dual Formation Resistivity Tool Wellsite Calibration – Sonde Error Correction							
Master: 6-Mar-2010 4:50							
R Sonde Error Correction – 0	0	208.2	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 1	0	40.05	N/A	N/A	N/A	N/A	MS/M
R Sonde Error Correction – 2	0	21.61	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 0	0	5.258	N/A	N/A	N/A	N/A	MS/M
X Sonde Error Correction – 1	0	50.23	N/A	N/A	N/A	N/A	MS/M

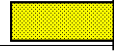
X Sonde Error Correction – 2	0	–98.73	N/A	N/A	N/A	N/A	MS/M
iFlex Dual Formation Resistivity Tool Wellsite Calibration – Mud Gain Correction							
Master: 6–Mar–2010 5:34							
Mud Gain – Coarse	1.000	1.118	N/A	N/A	N/A	N/A	
Mud Gain – Fine	1.000	0.9545	N/A	N/A	N/A	N/A	
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 14:44							
SS Window 1 Count Rate Bkg	1140	1236	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Bkg	1470	1563	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Bkg	760.0	806.6	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Bkg	770.0	829.8	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Bkg	79.00	80.18	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Bkg	94.00	96.29	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Bkg	280.0	274.5	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Bkg	146.0	145.6	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:07							
SS Window 1 Count Rate Water L	27000	24820	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water L	23000	20000	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water L	13400	11620	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water L	11800	10290	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water L	1210	1128	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water L	1600	1396	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water L	2100	1843	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water L	530.0	476.5	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:16							
SS Window 1 Count Rate Water H	23000	17170	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Water H	22000	17390	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Water H	12800	10220	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Water H	11300	9089	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Water H	950.0	740.9	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Water H	1380	1127	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Water H	2000	1634	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Water H	500.0	435.2	N/A	N/A	N/A	N/A	CPS
iFlex Litho Density Tool Wellsite Calibration – Detector Calibration							
Master: 24–Mar–2010 15:25							
SS Window 1 Count Rate Magnesi	28000	25650	N/A	N/A	N/A	N/A	CPS
SS Window 2 Count Rate Magnesi	24000	21330	N/A	N/A	N/A	N/A	CPS
SS Window 3 Count Rate Magnesi	13500	11690	N/A	N/A	N/A	N/A	CPS
SS Window 4 Count Rate Magnesi	11000	9573	N/A	N/A	N/A	N/A	CPS
LS Window 1 Count Rate Magnesi	5400	4837	N/A	N/A	N/A	N/A	CPS
LS Window 2 Count Rate Magnesi	6900	6031	N/A	N/A	N/A	N/A	CPS
LS Window 3 Count Rate Magnesi	8500	7422	N/A	N/A	N/A	N/A	CPS
LS Window 4 Count Rate Magnesi	1500	1321	N/A	N/A	N/A	N/A	CPS
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Background							
Master: 5–Mar–2010 22:15 Before: 29–Mar–2010 23:44							
Near Thermal Count Rate Master	27.00	26.42	26.00	N/A	N/A	N/A	CPS
Far Thermal Count Rate Master	10.00	10.11	10.96	N/A	N/A	N/A	CPS
Epithermal Count Rate Master B	27.00	27.07	25.65	N/A	N/A	N/A	CPS
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Plateau Setting							
Master: 5–Mar–2010 21:47							
Neutron Set Point Plat Set	2205	2217	N/A	N/A	N/A	N/A	V
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement							
Master: 5–Mar–2010 22:04							
Tank Temperature Tank Meas	20.00	16.50	N/A	N/A	N/A	N/A	DEGC
iFlex Telemetry Gamma Neutron Tool Wellsite Calibration – Tank Measurement							
Master: 5–Mar–2010 22:06							
Near Thermal Count Rate Tank M	14600	13730	N/A	N/A	N/A	N/A	CPS
Far Thermal Count Rate Tank Me	5410	5025	N/A	N/A	N/A	N/A	CPS
Epithermal Count Rate Tank Mea	1570	1472	N/A	N/A	N/A	N/A	CPS

iFlex Dual Formation Resistivity Tool / Equipment Identification

Primary Equipment:

iFlex Resistivity Mud Sensor	IRMS – A	12
iFlex Resistivity Pressure Sub	PSUB – A	12
iFlex Dual Formation Resistivity Sonde	IDRS – E	12

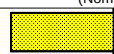
iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V	
0	0.9956				-1.461		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014				-0.9576		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.011				-2.034		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 6-Mar-2010 4:30							

iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M	
0	208.2				5.258		
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)	-900.0 (Minimum)	0 (Nominal)	900.0 (Maximum)
1	40.05				50.23		
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)
2	21.61				-98.73		
		0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)	-150.0 (Minimum)	0 (Nominal)	150.0 (Maximum)

Master: 6-Mar-2010 4:50

iFlex Dual Formation Resistivity Tool Wellsite Calibration							
Mud Gain Correction							
Phase	Mud Gain – Coarse		Value	Phase	Mud Gain – Fine		Value
Master			1.118	Master			0.9545
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 6–Mar–2010 5:34							

iFlex Dual Formation Resistivity Tool Master Calibration							
Test Loop Gain Correction							
Idx	Value	Test Loop Gain Correction Magnitude V			Value	Test Loop Gain Correction Phase V	
0	0.9956				-1.461		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
1	1.014				-0.9576		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
2	1.011				-2.034		
		0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)	-3.000 (Minimum)	0 (Nominal)	3.000 (Maximum)
Master: 6-Mar-2010 4:30							

iFlex Dual Formation Resistivity Tool Master Calibration							
Sonde Error Correction							
Idx	Value	R Sonde Error Correction MS/M			Value	X Sonde Error Correction MS/M	
0	208.2				5.258		
		0 (Minimum)	150.0 (Nominal)	300.0 (Maximum)	-900.0 (Minimum)	0 (Nominal)	900.0 (Maximum)
1	40.05				50.23		
		0 (Minimum)	45.00 (Nominal)	90.00 (Maximum)	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)
2	21.61				-98.73		
		0 (Minimum)	15.00 (Nominal)	30.00 (Maximum)	-150.0 (Minimum)	0 (Nominal)	150.0 (Maximum)
Master: 6-Mar-2010 4:50							

iFlex Dual Formation Resistivity Tool Master Calibration							
Mud Gain Correction							
Phase	Mud Gain – Coarse		Value	Phase	Mud Gain – Fine		Value
Master			1.118	Master			0.9545
	0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		0.8000 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Master: 6-Mar-2010 5:34							

iFlex Litho Density Tool / Equipment Identification		
Primary Equipment:		
Mechanical Control Sonde	IMCS – A	25
Gamma Gamma Logging Source	GGLS – C	2434
Powered Density Pad	IPDP – A	25
Caliper Electronics Cartridge	ICEC – B	25
Auxiliary Equipment:		

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Bkg CPS			Value	Phase	SS Window 2 Count Rate Bkg CPS			Value
Master				1236	Master				1563
	730.0 (Minimum)	1140 (Nominal)	1370 (Maximum)			990.0 (Minimum)	1470 (Nominal)	1720 (Maximum)	
Phase	SS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 1 Count Rate Bkg CPS			Value
Master				829.8	Master				80.18
	480.0 (Minimum)	770.0 (Nominal)	940.0 (Maximum)			47.00 (Minimum)	79.00 (Nominal)	99.00 (Maximum)	
Phase	LS Window 3 Count Rate Bkg CPS			Value	Phase	LS Window 4 Count Rate Bkg CPS			Value
Master				274.5	Master				145.6
	150.0 (Minimum)	280.0 (Nominal)	360.0 (Maximum)			83.00 (Minimum)	146.0 (Nominal)	190.0 (Maximum)	
Master: 24-Mar-2010 14:44									

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Water Low PE Insert CPS			Value	Phase	SS Window 2 Count Rate Water Low PE Insert CPS			Value
Master				24820	Master				20000
	18000 (Minimum)	27000 (Nominal)	30000 (Maximum)			16000 (Minimum)	23000 (Nominal)	25000 (Maximum)	
Phase	SS Window 4 Count Rate Water Low PE Insert CPS			Value	Phase	LS Window 1 Count Rate Water Low PE Insert CPS			Value
Master				10290	Master				1128
	8600 (Minimum)	11800 (Nominal)	12900 (Maximum)			820.0 (Minimum)	1210 (Nominal)	1400 (Maximum)	
Phase	LS Window 3 Count Rate Water Low PE Insert CPS			Value	Phase	LS Window 4 Count Rate Water Low PE Insert CPS			Value
Master				1843	Master				476.5
	1450 (Minimum)	2100 (Nominal)	2400 (Maximum)			380.0 (Minimum)	530.0 (Nominal)	580.0 (Maximum)	
Master: 24-Mar-2010 15:07									

iFlex Litho Density Tool Wellsite Calibration									
Detector Calibration									
Phase	SS Window 1 Count Rate Water High PE Insert CPS			Value	Phase	SS Window 2 Count Rate Water High PE Insert CPS			Value
Master				17170	Master				17390
	16000 (Minimum)	23000 (Nominal)	26000 (Maximum)			15000 (Minimum)	22000 (Nominal)	24000 (Maximum)	
Phase	SS Window 4 Count Rate Water High PE Insert CPS			Value	Phase	LS Window 1 Count Rate Water High PE Insert CPS			Value
Master				9089	Master				740.9
	8200 (Minimum)	11300 (Nominal)	12400 (Maximum)			640.0 (Minimum)	950.0 (Nominal)	1100 (Maximum)	
Phase	LS Window 3 Count Rate Water High PE Insert CPS			Value	Phase	LS Window 4 Count Rate Water High PE Insert CPS			Value
Master				1634	Master				435.2
	1350 (Minimum)	2000 (Nominal)	2300 (Maximum)			360.0 (Minimum)	500.0 (Nominal)	550.0 (Maximum)	

iFlex Litho Density Tool Master Calibration														
Detector Calibration														
Phase	SS Window 1 Count Rate Bkg CPS			Value	Phase	SS Window 2 Count Rate Bkg CPS			Value	Phase	SS Window 3 Count Rate Bkg CPS			Value
Master				1236	Master				1563	Master				806.6
730.0 (Minimum) 1140 (Nominal) 1370 (Maximum)					990.0 (Minimum) 1470 (Nominal) 1720 (Maximum)					490.0 (Minimum) 760.0 (Nominal) 900.0 (Maximum)				
Phase	SS Window 4 Count Rate Bkg CPS			Value	Phase	LS Window 1 Count Rate Bkg CPS			Value	Phase	LS Window 2 Count Rate Bkg CPS			Value
Master				829.8	Master				80.18	Master				96.29
480.0 (Minimum) 770.0 (Nominal) 940.0 (Maximum)					47.00 (Minimum) 79.00 (Nominal) 99.00 (Maximum)					54.00 (Minimum) 94.00 (Nominal) 121.0 (Maximum)				
Phase	LS Window 3 Count Rate Bkg CPS			Value	Phase	LS Window 4 Count Rate Bkg CPS			Value					
Master				274.5	Master				145.6					
150.0 (Minimum) 280.0 (Nominal) 360.0 (Maximum)					83.00 (Minimum) 146.0 (Nominal) 190.0 (Maximum)									
Master: 24-Mar-2010 14:44														

iFlex Litho Density Tool Master Calibration											
Detector Calibration											
Window	1 Count Rate	Magnesium Low PE Insert	CPS	Value	SS	Window	2 Count Rate	Magnesium Low PE Insert	CPS	Value	SS
Master				25650		Master				21330	
	19000 (Minimum)	28000 (Nominal)	31000 (Maximum)				17000 (Minimum)	24000 (Nominal)	27000 (Maximum)		
Window	3 Count Rate	Magnesium Low PE Insert	CPS	Value	LS	Window	1 Count Rate	Magnesium Low PE Insert	CPS	Value	LS
Master				9573		Master				4837	
	8000 (Minimum)	11000 (Nominal)	12000 (Maximum)				3600 (Minimum)	5400 (Nominal)	6200 (Maximum)		
Window	4 Count Rate	Magnesium Low PE Insert	CPS	Value	LS	Window	2 Count Rate	Magnesium Low PE Insert	CPS	Value	LS
Master				7422		Master				1321	
	5700 (Minimum)	8500 (Nominal)	9900 (Maximum)				1030 (Minimum)	1500 (Nominal)	1800 (Maximum)		

Master: 24-Mar-2010 15:25

iFlex Telemetry Gamma Neutron Tool / Equipment Identification			
Primary Equipment:			
Telemetry Gamma Neutron Sonde	ITNS – B	9	
Neutron Neutron Logging Source – contain	NNLS – B		
Telemetry Gamma Neutron Housing	ITNH – B	9	
PSP Supply and Telemetry Cartridge	PSTC – A		
PSP Telemetry Cartridge	PSC – ATS	9	
PSC 16.384MHz oscillator	PSC_ –		
Auxiliary Equipment:			

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration											
Background											
Phase	Thermal Count Rate	Master Bkgd	CPS	Value	Phase	Thermal Count Rate	Master Bkgd	CPS	Value	Phase	Thermal Count Rate
Master				26.42	Master				10.11	Master	
Before				26.00	Before				10.96	Before	
	20.00 (Minimum)	27.00 (Nominal)	40.00 (Maximum)			7.000 (Minimum)	10.00 (Nominal)	17.00 (Maximum)			20.00 (Minimum)

Master: 5-Mar-2010 22:15

Before: 29-Mar-2010 23:44

iFlex Telemetry Gamma Neutron Tool Wellsite Calibration											
Tank Measurement											
Phase	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Thermal Count Rate
Master				13730	Master				5025	Master	
	13400 (Minimum)	14600 (Nominal)	15700 (Maximum)			4900 (Minimum)	5410 (Nominal)	5900 (Maximum)			1440 (Minimum)

Master: 5-Mar-2010 22:06

iFlex Telemetry Gamma Neutron Tool Master Calibration											
Tank Measurement											
Phase	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Thermal Count Rate	Tank Meas	CPS	Value	Phase	Thermal Count Rate
Master				13730	Master				5025	Master	
	13400 (Minimum)	14600 (Nominal)	15700 (Maximum)			4900 (Minimum)	5410 (Nominal)	5900 (Maximum)			1440 (Minimum)

Master: 5-Mar-2010 22:06

Well: **Werner Hatch 1**
Field: **Deer Lake Basin**
Rig: **Logan Hydro 44**
Province: **Newfoundland**

MULTI-EXPRESS

NUCLEAR LOG

COMPENSATED NEUTRON – LITHODENSITY

ATTACHMENT # 13
Daily Drilling Reports

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$1,290
CUM. COST: \$1,290
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 1p **REP DATE:** 05.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP:** 0
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY					TIME DISTRIBUTION				
TOOL	OD	ID	LENGTH		MORU:		RUN CSG:		
BIT					DRILL ACTUAL:		CEMENT:		
Bit Sub					REAMING:		WOC:		
7 DC					CIRCULATE:		NIPPLE UP:		
					TRIPS:		TEST BOP:		
					RIG SERVICE:		PLUGS:		
					REPAIR RIG:		DIR.DRILL:		
DRILL PIPE					SURVEYS:		DRILL OUT:		
KELLY					LOGGING:		SAFETY:		
TOTAL				0.00					

CASING SUMMARY					TOTAL HOURS: 0.00				
RAN		JTS OF		MM,		KG/M,			CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.			
CEMENTED WITH									
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.			
LOGS RUN									
DISFL		M TO		M.	CNL-DEN		M TO		M.
SONIC		M TO		M.					

Check out Werner Hatch location with Cabot Martin and Donal Cross had to move center stick over on gravel pit. Went to Clear Brook to check out deverter and look at 177.3 mm Csg Came back to Dear Lake

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$1,290
CUM. COST: \$2,680
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 2p **REP DATE:** 06.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP: 0**
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY					TIME DISTRIBUTION				
TOOL	OD	ID	LENGTH		MORU:		RUN CSG:		
BIT					DRILL ACTUAL:		CEMENT:		
Bit Sub					REAMING:		WOC:		
7 DC					CIRCULATE:		NIPPLE UP:		
					TRIPS:		TEST BOP:		
					RIG SERVICE:		PLUGS:		
					REPAIR RIG:		DIR.DRILL:		
DRILL PIPE					SURVEYS:		DRILL OUT:		
KELLY					LOGGING:		SAFETY:		
TOTAL				0.00					

CASING SUMMARY					TOTAL HOURS: 0.00				
RAN		JTS OF		MM,		KG/M,			CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.			
CEMENTED WITH									
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.			
LOGS RUN									
DISFL		M TO		M.	CNL-DEN		M TO		M.
SONIC		M TO		M.					

When to Werner Hatch # 1 & check location Don Cross has hoe fixing up location

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$1,290
CUM. COST: \$3,870
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 3P **REP DATE:** 07.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP: 0**
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	
DRILL ACTUAL:		CEMENT:	
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	
TRIPS:		TEST BOP:	
RIG SERVICE:		PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	

CASING SUMMARY

RAN		JTS OF		MM,		KG/M,		CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.		
CEMENTED WITH								
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN		M TO	
SONIC		M TO		M.				

Check out location and it look ok

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$1,290
CUM. COST: \$5,160
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 4p **REP DATE:** 8.02.2010 **STATUS 08:00** DFS
DEPTH: **PROG.** **KB:** ### **GL:** 43.5m **MACP:** 0
SURVEYS: **KB To Flange:** #VALUE!
MUD TYPE: **WT:** **VISC:** **WL / FC:** **PH:**
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	
DRILL ACTUAL:		CEMENT:	
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	
TRIPS:		TEST BOP:	
RIG SERVICE:		PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	

CASING SUMMARY

RAN		JTS OF		MM,		KG/M,		CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.		
CEMENTED WITH								
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN		M TO	
SONIC		M TO		M.				

What on rig to come to Dear Lake line up truck to haul Csg & Diverter from Clear book

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$1,290
CUM. COST: \$6,450
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 5P **REP DATE:** 9.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP:** 0
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	
DRILL ACTUAL:		CEMENT:	
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	
TRIPS:		TEST BOP:	
RIG SERVICE:		PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	

CASING SUMMARY

RAN		JTS OF		MM,		KG/M,		CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.		
CEMENTED WITH								
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN		M TO	
SONIC		M TO		M.				

Haul Csg & Diverter tol Werner Hatch # 1 and un load, Sullivan Rig move from st Johns to Dear Lake

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$13,700
CUM. COST: \$20,150
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 6p **REP DATE:** 10.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP:** 0
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY					TIME DISTRIBUTION				
TOOL	OD	ID	LENGTH		MORU:		RUN CSG:		
BIT					DRILL ACTUAL:		CEMENT:		
Bit Sub					REAMING:		WOC:		
7 DC					CIRCULATE:		NIPPLE UP:		
					TRIPS:		TEST BOP:		
					RIG SERVICE:		PLUGS:		
					REPAIR RIG:		DIR.DRILL:		
DRILL PIPE					SURVEYS:		DRILL OUT:		
KELLY					LOGGING:		SAFETY:		
TOTAL				0.00					

CASING SUMMARY					TOTAL HOURS: 0.00				
RAN		JTS OF		MM,		KG/M,			CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.			
CEMENTED WITH									
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.			
LOGS RUN									
DISFL		M TO		M.	CNL-DEN		M TO		M.
SONIC		M TO		M.					

Move DSD Drilling Rig to Location Haul Mud in to Location, Wait on go head to start driving Conductor pipe once approved

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$10,488
CUM. COST: \$30,638
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 1 **REP DATE:** 11.02.2010 **STATUS 08:00** DFS
DEPTH: PROG. KB: ### GL: 43.5m **MACP:** 0
SURVEYS: KB To Flange: #VALUE!
MUD TYPE: WT: VISC: WL / FC: PH:
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY					TIME DISTRIBUTION				
TOOL	OD	ID	LENGTH		MORU:		RUN CSG:		
BIT					DRILL ACTUAL:		CEMENT:		
Bit Sub					REAMING:		WOC:		
7 DC					CIRCULATE:		NIPPLE UP:		
					TRIPS:		TEST BOP:		
					RIG SERVICE:		PLUGS:		
					REPAIR RIG:		DIR.DRILL:		
DRILL PIPE					SURVEYS:		DRILL OUT:		
KELLY					LOGGING:		SAFETY:		
TOTAL				0.00					

CASING SUMMARY					TOTAL HOURS: 0.00				
RAN		JTS OF		MM,		KG/M,			CASING.
LANDED AT		MKB.	TOTAL LENGTH			METERS.			
CEMENTED WITH									
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.			
LOGS RUN									
DISFL		M TO		M.	CNL-DEN		M TO		M.
SONIC		M TO		M.					

What on Drilling Lease from 08:00 to 11:15, have safety meeting, Rig up & Start Drilling 222mm hole 12:30 Hrs.
 Drill down to 61 ft. Trip out Pick up 10 inch Csg, Weld on drive shoe on.Hammer Csg in, weld on 2nd Jt, 1 Hr. 15:00 to 16:15 Hrs. Hammer down 2 jt of Csg. weld on # 3 Jt from 17:15 to 18:15.Hammer down # 3 Jt. to 18:30 hrs.
 Total Csg in hole 61 ft. Shut Down for the day.

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3518 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$13,581
CUM. COST: \$44,219
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 2 **REP DATE:** 12.02.2010 **STATUS 08:00** Drilling Surface Hole **DFS**
DEPTH: 40 **PROG.** **KB:** ### **GL:** 43.5m **MACP:** 0
SURVEYS: **KB To Flange:** #VALUE!
MUD TYPE: **WT:** **VISC:** **WL / FC:** **PH:**
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1a		222									

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		0	0	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	
DRILL ACTUAL:	4.00	CEMENT:	
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	4.00
TRIPS:		TEST BOP:	0.25
RIG SERVICE:		PLUGS:	
Hammer Csg	1.50	Weld Csg	3.00
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	0.25

CASING SUMMARY

RAN		JTS OF		MM,		KG/M,		CASING.
LANDED AT		MKB.		TOTAL LENGTH		METERS.		
CEMENTED WITH								
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN	M TO		M.
SONIC		M TO		M.				

Have Safety Meeting with Crew, Drill & Hammer& Weld Csg down to 24.70 M. Install Diverter,& function test Diverter, Drill down to 40.68 m. trip back to 24m and shut down for the day

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$12,450
CUM. COST: \$56,669
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 3 **REP DATE:** 13.02.2010 **STATUS 08:00** Drill surface **DFS**
DEPTH: 78 **PROG.** 38 **KB:** ### **GL:** 43.5m **MACP:** 0
SURVEYS: **KB To Flange:** #VALUE!
MUD TYPE: **WT:** **VISC:** **WL / FC:** **PH:**
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM
1A		222									

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		0	0	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	
DRILL ACTUAL:	10.75	CEMENT:	
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	
TRIPS:		TEST BOP:	
RIG SERVICE:		PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	0.25

CASING SUMMARY

RAN		JTS OF		MM,		KG/M,		CASING.
LANDED AT		MKB.		TOTAL LENGTH		METERS.		
CEMENTED WITH								
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN	M TO		M.
SONIC		M TO		M.				

Drill 222 mm hole from 40m to 79m very hard shale.

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$13,582
CUM. COST: \$70,251
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 4 **REP DATE:** 14.02.2010 **STATUS 08:00** Cement Csg **DFS**
DEPTH: **PROG.** **KB:** ### **GL:** 43.5m **MACP:** 0
SURVEYS: **KB To Flange:** #VALUE!
MUD TYPE: **WT:** **VISC:** **WL / FC:** **PH:**
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:		RUN CSG:	5.50
DRILL ACTUAL:	3.50	CEMENT:	
REAMING:		WOC:	
CIRCULATE:	0.50	NIPPLE UP:	
TRIPS:	0.50	TEST BOP:	
RIG SERVICE:	0.25	PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	0.25
Rig out diverter	0.50		

CASING SUMMARY

RAN	10	JTS OF	177.3	MM,	25.3	KG/M,	ST&C	H40	CASING.
LANDED AT		MKB.	TOTAL LENGTH		97.70	METERS.			
CEMENTED WITH									
PLUG DOWN AT		HRS. ON		WITH		M3 CEMENT RETURNS.			
LOGS RUN									
DISFL		M TO		M.	CNL-DEN		M TO		M.
SONIC		M TO		M.					

Have safety meeting ,rig service,Drill 222mm hole from 79m to 99 M Gr. Circulate hole clean mix 1 pail of detergent, 12:00 to 13:30 trip out ,13:30 to 14:00 Rig out diverter, 14:00 to 17;45 Run 10 jts 177.3mm 25.3 kg/m H40 csg to 99 m. Gr shut down for the day

Dear Lake Oil&Gas Ltd

OPERATOR : Dear Lake Oil&Gas Ltd
WELL NAME : Werner Hatch # 1
UNIQUE ID : 0
SUPERVISOR: Myron Podulsky
CELLULAR #: 403-304-3511 **OR** 0
SPUD DATE: 12.02.2010
R.R. DATE: 15.02.2010
CONTRACTOR: Sullivan's Drilling
A.F.E. #: 0 **EST. T.D** 0

LOCATION: Werner Hatch # 1
WELL LICENCE 0
DAILY COST: \$10,308
CUM. COST: \$80,558
DAILY MUD: 0
CUM MUD: 0
PROD. CASING & CEMENT \$0

DAY: 5 **REP DATE:** 15.02.2010 **STATUS 08:00** Move Rig Back **DFS**
DEPTH: **PROG.** **KB:** ### **GL:** 43.5m **MACP:** 0
SURVEYS: **KB To Flange:** #VALUE!
MUD TYPE: **WT:** **VISC:** **WL / FC:** **PH:**
ADDITIVES:

BIT	SERIAL #	SIZE	MFG	TYPE	JETS	OUT	RUN	HRS	TBG	WEIGHT	RPM

BIT	PUMP	DESCR.	LINER	STK	SPM	RATE	PRESS	AV DC	AV DP	NOZZEL VEL
	0	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec
0	0.00	0	0	0		0.000		#DIV/0!	#DIV/0!	#DIV/0! m/sec

DRILLING ASSEMBLY

TOOL	OD	ID	LENGTH
BIT			
Bit Sub			
7 DC			
DRILL PIPE			
KELLY			
TOTAL			0.00

TIME DISTRIBUTION

MORU:	2.00	RUN CSG:	
DRILL ACTUAL:		CEMENT:	2.00
REAMING:		WOC:	
CIRCULATE:		NIPPLE UP:	
TRIPS:		TEST BOP:	
RIG SERVICE:		PLUGS:	
REPAIR RIG:		DIR.DRILL:	
SURVEYS:		DRILL OUT:	
LOGGING:		SAFETY:	
Rig to cement	5.00		

CASING SUMMARY

RAN	10	JTS OF	177.3	MM,	25.3	KG/M,	H40	CASING.
LANDED AT	99m GR	MKB.	TOTAL LENGTH		97.70	METERS.		
CEMENTED WITH	3 Tonnes							
PLUG DOWN AT	14:00	HRS. ON	15.02.2010	WITH	0.3	M3 CEMENT RETURNS.		
LOGS RUN								
DISFL		M TO		M.	CNL-DEN		M TO	M.
SONIC		M TO		M.				

Rig up to cement 177.3 mm Csg,cement with 3 tonnes Class G , Displace with 1.7 m3 H2O, Had small Return, Cement drop Down, Top up with 19 sacks,Cement.Ran 10 Jts.177.3 mm.25.3 Kg/m H40 total 97.70 m. GR.EV 43.5m
 Well Center Corritdens N49 1305.6 W 57 2042.3 Rig Releas 16:00 Hrs 15.02.2010

**24 November 2010: One or more coring operations
setup days may be missing and may be filed at a later date.**

DAILY DRILLING REPORT

SURVEYS			TIME BREAKDOWN				MUD ADDITIVES	
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____	1.	_____
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____	2.	_____
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____	3.	_____
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	_____	4.	_____
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____	5.	_____
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____	6.	_____
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____	7.	_____
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	<u>12.00</u>	8.	_____
_____ m	_____ °		9. RUN CASING	_____	19.	_____	9.	_____
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	<u>12.00</u>	10.	_____

Waiting on BOPs.

TEMPERATURE	°C	WEATHER	LEASE & ROAD CONDITIONS	
DAILY COST	\$5,520	PREVIOUS COST	\$123,859	CUMULATIVE COST \$129,379
REPORT FROM:	S Podulsky		TAKEN BY:	E MAIL

MEGA ENGINEERING LTD.
DRILLING PROGRAM

PAGE 1

OPERATOR:

ELEVATIONS (m)

WELL NAME:

GROUND:

LOCATION:

K.B.:

Directions to Lease:

GEOLOGICAL MARKERS

[illegible]

TESTING AND CORING

LOGGING

SAMPLES

TYPE			SCALE	INTERVAL	COMPANY	m/SAMPLE	INTERVAL
COPIES	FIELD:	FINAL:	LAS DISKETTE:				

SPECIAL GEOLOGICAL INSTRUCTIONS

MEGA ENGINEERING LTD.

DRILLING PROGRAM

WELL NAME	0
-----------	---

PAGE 3

[illegible]

DAILY REPORTS

Daily Reports to be telephoned to:

Phone No.

Fax No.

After hours calls:

NAME

COMPANY

TELEPHONE No.

INVOICES

PARTNERS OR PARTICIPANTS

PREPARED BY:

DATE: _____

PIPE TALLY

DATE _____ PAGE NO. 1 of 2

WELL _____ LOCATION _____

RIG _____ OPERATOR _____

TYPE OF STRING _____ MFG. _____ DESCRIPTION _____
(Seamless, ERW)

NEW OR USED _____ SIZE (mm) _____ WT. (kg/m) _____ GRADE _____

THREAD AND COUPLING _____ RANGE _____ TALLIED BY _____

NO.	LENGTH (m)	NO.	LENGTH (m)	NO.	LENGTH (m)	NO.	LENGTH (m)	NO.	LENGTH (m)
1		21		41		61		81	
2		22		42		62		82	
3		23		43		63		83	
4		24		44		64		84	
5		25		45		65		85	
6		26		46		66		86	
7		27		47		67		87	
8		28		48		68		88	
9		29		49		69		89	
10		30		50		70		90	
11		31		51		71		91	
12		32		52		72		92	
13		33		53		73		93	
14		34		54		74		94	
15		35		55		75		95	
16		36		56		76		96	
17		37		57		77		97	
18		38		58		78		98	
19		39		59		79		99	
20		40		60		80		100	

TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
1 - 20	0.00	21 - 40	0.00	41 - 60	0.00	61 - 80	0.00	81 - 100	0.00

TOTAL	1 - 20	0.00
TOTAL	21 - 40	0.00
TOTAL	41 - 60	0.00
TOTAL	61 - 80	0.00
TOTAL	81 - 100	0.00
GRAND TOTAL	1 - 100	0.00

GRAND TOTAL	1 - 100	
GRAND TOTAL	101 -	
GRAND TOTAL	1 -	

REMARKS

TOTAL NO. JOINTS ON LOCATION _____

NO. JOINTS LEFT OUT (*) _____

MARKER JOINT (YES / NO) _____

DEPTH OF MARKER JOINT (m KB) _____

REPRESENTATIVE OF OPERATOR _____

RUNNING & CEMENTING

Surface Casing O.D. (mm) _____
Intermediate Casing
Production Casing
Liner

GENERAL

Well: _____ Location: _____ Date: _____
K.B. Elevation: _____ m K.B. to G.L. _____ m Total Depth (Driller) _____ m K.B.

Hole Size (mm)					Casing in Hole (mm)			
Depth (m KB)					Depth Set (m KB)			

Mud Type: _____ Wt. _____ kg/m³ Visc. _____ sec/l W.L. _____ cc
BOP's: _____

RUNNING

Tongs: _____ Torque: Max. _____ N·m Opt. _____ N·m Min. _____ N·m
Time Pipe Started: _____ Time on Bottom: _____ Time Circulated _____ hours
Fill-Up Points: _____ Bottom by Casing: _____ m KB. Meters up from KB _____
Remarks: _____

CEMENTING

Company: _____ Operator: _____ Arrive Location: _____

Cement Blend and Additives	Amount (tonnes)	Yield (m ³ /tonne)	Density (kg/m ³)	Interval (m KB)

Prewash: _____ m³ _____ Mix Times: Start _____ Finish _____
Disp.: Calc. _____ m³ Meas. _____ m³ Disp Times: Start _____ Finish _____
Disp. Fluid _____ Max. Pressure _____ mPa Bump Pressure _____ mPa No. Times Bumped _____
Cement Returns (Yes/No): _____ Amount _____ m³ Work Casing _____ m while Circulating / Cementing
Remarks: _____

LANDING

Time _____ Wt. Of Cem. String _____ daN Wt Landed in Slips _____ daN
Casing Bowl: MFG. _____ Nominal Size _____ mm Working Pressure _____ kPa
Slip & Seal Assembly _____
Remarks: _____

Operator: _____
Representative: _____

SWAB REPORT

WELL NAME	LOCATION	COMPANY
-----------	----------	---------

SERVICE RIG	TANK COEFF.	m ³ /cm	DATE
-------------	-------------	--------------------	------

Load Fluid to Recover Recovered to Date Left to Recover
 _____ m³ Oil _____ m³ Water _____ m³ Oil _____ m³ Water _____ m³ Oil _____ m³ Water

[illegible]

TUBING AND WELLHEAD EQUIPMENT

Well _____ Location _____ Date _____

K.B. Elevation _____ m K.B. to Casing Flange _____ m K.B. to Tbg. Hgr. Flge. _____ m

CASING: O.D. _____ mm Wt. _____ kg/m Grade _____ Min. Drift Dia. _____ mm

Set at _____ m KB Internal Depth _____ m KB Perforations _____

TUBING: O.D. _____ mm Wt. _____ kg/m Grade _____ Range _____ Make _____

No. Joints on Location _____ Tallied Length _____ m

No. Joints perm. in well _____ Tallied Length _____ m

FINAL TUBING STRING / PACKER AND TAILPIPE ASSEMBLY (from bottom upward)

Description	Length (m)	Top Set At (m)	Minimum I.D. (mm)	Remarks

Total String Length _____

K.B. to Tubing Hanger Flange (Plus) _____

Setting Depth K.B. _____

Time Pipe Started _____

Time on Bottom _____

Csg. Int. Depth by Tbg. _____ m

Tubing Landed In: Dognut _____

Hanger Flange _____

Wt. of Tbg. String _____ daN Wt. on Packer _____ daN Wt. on Hgr. _____ daN

WELLHEAD

Casing Bowl: Make _____ Size _____ mm Working Pressure _____ kPa

Tubing Spool: Make _____ Size _____ mm Working Pressure _____ kPa

Master Valves: Make _____ Type _____ Size _____ mm WP _____ kPa

Casing Valves: Make _____ Type _____ Size _____ mm WP _____ kPa

Choke: Type _____ Make _____

Remarks: (Note additional equipment) _____

Operator _____

Representative _____

WELL TREATMENT REPORT

Well	Location	Date
------	----------	------

Completion / Workover	No.	Treatment No.	Formation
-----------------------	-----	---------------	-----------

Casing:	Size	mm	Wt.	kg/m	Perforations	m	KB
---------	------	----	-----	------	--------------	---	----

Tubing:	Size	mm	Wt.	kg/m	Tubing Perforations	m KB
---------	------	----	-----	------	---------------------	------

Packer:	Make	Model	Size	mm	Set at	m KB
---------	------	-------	------	----	--------	------

Treatment down:	Casing	/	Tubing	Casing Capacity				m ³
-----------------	--------	---	--------	-----------------	--	--	--	----------------

Tubing Capacity
m³

Type and Size of Treatment

Treatment Program	Number of Patients	Number of Deaths	Number of Patients with Adverse Effects
Control Group	100	15	10
Experimental Group	100	10	5

[illegible]

Operator

Representative

WIRELINE REPORT

OPERATION:

Date _____

- Perforating
- Cement Retainer
- Bridge Plug
- Production Packer

Perforated Interval or Depth Set

By Open Hole Log: _____ m KB

By R/A Log: _____ m KB

Well _____ Location _____

Completion / Workover No. _____ Run No. _____

K.B. Elev. _____ m K.B. to Csg. Flge. _____ m Producing Zone _____

Casing: Size _____ mm Wt. _____ kg/m Drift Dia. _____ mm PBDT _____ m KB

FOR PERMANENT TYPE COMPLETIONS

Tubing: Size _____ mm Wt. _____ kg/m Descript. _____ Drift Dia. _____ mm

Auxillary Equipment _____

Type of Gun, Packer, etc. _____ O.D. _____ mm Length _____ m

Meters Loaded _____ m No. of Charges _____ Phasing _____ Charge Spacing _____ SPM

Type of Charge _____ Charge Weight _____ grams Type of Collar Locator _____

Service Company _____ Operator _____

Zeroed on _____ with K.B. as datum.

(COLLAR LOCATOR, TOP SHOT, BOTTOM SHOT)

CCL to top shot _____ m CCL to bottom shot _____ m

SHOOTING DATA

	RUN No. 1			RUN No. 2		
	ACTUAL	ERROR		ACTUAL	ERROR	
COLLARS R/A LOG	LOCATED ODOMETER READING	HIGH	LOW	LOCATED ODOMETER READING	HIGH	LOW

Odometer Reading at Shooting Position: (1) _____ m Time Fired: (1) _____

(2) _____ m Time Fired: (2) _____

If Odometer Was Reset, Give Details _____

If Gun Misfired, Give Details _____

Remarks _____

Operator _____ Representative _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 8 DATE 08-03-10
 DEPTH m KB PROGRESS m HRS. ON BOTTOM CONTRACTOR LOGAN
 OPERATION Riging up SUPERVISOR S PODULSKY
 GRD. ELEV. m KB to GL m KB ELEV. m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT daN ROTARY SPEED RPM
 DRILL PIPE (OD) mm THREAD D.C. (OD) mm THREAD No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl- (mg/l)	Ca++ (mg/l)	K+ (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex					0	###	###						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. DRILLING	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.					
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3.					
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.					
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.					
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.					
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.					
<u> </u> m	<u> </u> °		8. CLEAN TO BTM.	<u> </u>	18. R/U	<u>12.00</u>			8.					
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19.				9.					
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>12.00</u>			10.					

REMARKS BOPs arrived on location at 12:30 hrs. Unloaded. Welded on casing bowl to 19:00 hrs.
Preheated pipe and bowl before welding. Wrapped bowl with insulation to prevent too rapid cool down.
Installing Bops. Cribbed cellar, Spotted substructure.(no crews)

TEMPERATURE °C WEATHER LEASE & ROAD CONDITIONS
 DAILY COST \$18,320 PREVIOUS COST \$129,379 CUMULATIVE COST \$147,699

REPORT FROM: S Podulsky

TAKEN BY:

E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 9 DATE 09/03/10
 DEPTH 101 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION Rigging up SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		78	86	8	4	2							26703
	REAM NO.														
	CORE NO.	1													

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	1.50			3.					
_____ m	_____ °		4. TRIPPING	6.50	14. DRILL OUT	8.00			4.					
_____ m	_____ °		5. CIRCULATING	3.00	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING	5.00	19. W/O/flowmeter	_____			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS

Logan truck arrived with more equipment.
 Core trailer arrived in Deer Lake
 Crews arrived at noon.

TEMPERATURE 7 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$18,181 PREVIOUS COST \$147,699 CUMULATIVE COST \$165,880
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 10 DATE 10/03/10
 DEPTH 78 m KB PROGRESS 78 m HRS. ON BOTTOM 0 CONTRACTOR LOGAN
 OPERATION Drilling ou tcement SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL _____ m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT _____ daN ROTARY SPEED _____ RPM
 DRILL PIPE (OD) _____ mm THREAD _____ D.C. (OD) _____ mm THREAD _____ No.
 BHA _____ D.C. (OD) _____ mm THREAD _____ No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		72	78	6									26703
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____			3.					
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	2.00			4.					
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	22.00			8.					
_____ m	_____ °		9. RUN CASING	_____	19.	_____			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS

Rigging up : Raised derrick. Dug dead men. Finished flare line.

TEMPERATURE _____ °C WEATHER _____ LEASE & ROAD CONDITIONS _____
 DAILY COST \$21,129 PREVIOUS COST \$165,880 CUMULATIVE COST \$187,009
 REPORT FROM: S Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 11 DATE 11/03/10
 DEPTH 78 m KB PROGRESS 78 m HRS. ON BOTTOM 0 CONTRACTOR LOGAN
 OPERATION Drilling out cement SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL _____ m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT _____ daN ROTARY SPEED _____ RPM
 DRILL PIPE (OD) _____ mm THREAD _____ D.C. (OD) _____ mm THREAD _____ No.
 BHA _____ D.C. (OD) _____ mm THREAD _____ No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		72	78	6	2	3							26703
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____			3.					
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	2.00			4.					
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	22.00			8.					
_____ m	_____ °		9. RUN CASING	_____	19.	_____			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS Rigging up to drill out cement to 19:00 hrs.
Make gasket for flow nipple on Bop. To 22:00 hrs.
Drilled out cement from 72m to 78m to 24:00 hrs.

TEMPERATURE _____ °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$24,910 PREVIOUS COST \$187,009 CUMULATIVE COST \$211,919
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 12 DATE 12/03/10
 DEPTH 78 m KB PROGRESS 78 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION Wait on Flow meter SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 80 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		78	86	8	4	2							26703
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____			3.					
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	2.00			4.					
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING	_____	19. W/O/flowmeter	22.00			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS Drilled cement to 82 m to 07:00 hrs. Drilled to 96 m to 12:00 hrs. Circulated to 16:00 hrs. Drained pump and lines ,wait on flow

meter to 24:00 hrs.

Pressure tested Pipe rams and anular preventer to 1400 Kpa for 10 mins OK and 7000 Kpa for 10 mins OK.

Blind rams and Bop valves will be tested when out of the hole prior to dilling out completely.

TEMPERATURE -5 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$18,852 PREVIOUS COST \$211,919 CUMULATIVE COST \$230,771
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 13 DATE 13/03/10
 DEPTH 0 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION Drilling cement @ SUPERVISOR S PODULSKY
 GRD. ELEV. m KB to GL 3.24 m KB ELEV. m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 80 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		78	86	8	4	2							26703
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. DRILLING	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.	<u> </u>				
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3.	<u> </u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. CLEAN TO BTM.	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/flowmeter	<u>24.00</u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Waited on flow meter to 24:00 hrs.

TEMPERATURE 7 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$19,380 PREVIOUS COST \$211,919 CUMULATIVE COST \$250,151
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 14 DATE 14/03/10
 DEPTH 78 m KB PROGRESS 78 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION Wait on Flow meter SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 80 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		78	86	8	4	2							26703
	REAM NO.														
	CORE NO.														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. DRILLING	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____			3.					
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	<u>2.00</u>			4.					
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING	_____	19. W/O/flowmeter	<u>22.00</u>			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	<u>24.00</u>			10.					

REMARKS

Waited on flow meter to 24:00 hrs.

Pressure tested blind rams, HCR, and manifold valves, each for 10 mins to 1400 and 7000 Kpa Ok. Checked stabbing valve. to 1400 and 7000 Kpa. for 10 mins. OK. Checked motor shut offs OK.

Conducted detailed Rig Inspection report - OK.

TEMPERATURE -5 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$18,417 PREVIOUS COST \$250,151 CUMULATIVE COST \$268,568
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 15 DATE 15/03/10
 DEPTH 101 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION 06:00 hrs.Coring at 120m SUPERVISOR S PODULSKY
 GRD. ELEV. m KB to GL 3.24 m KB ELEV. m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159		78	86	8	4	2							26703
	REAM NO.														
	CORE NO.	1													

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		duplex					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. DRILLING	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.	<u> </u>				
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u>1.50</u>			3.	<u> </u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u>6.50</u>	14. DRILL OUT	<u>8.00</u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>3.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. CLEAN TO BTM.	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u>5.00</u>	19. W/O/flowmeter	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Cleaned to 96 m Circulated hole not cleaning to 08:00 hrs.Installed larger pump to 09:00 hrs.Circulated hole clean to 10:00
 Drilled cemnt to to 101m to to 10:30 hrs. hrs.Layed down drill pipe and1-drill collar to 14:00 hrs. Ran 12 jts. usd
 114.3 mm. casing to 14:00 hrs.landed at 101MKb. (all collars spot welded) Landed casind in casing bowl with ring welded on
 casing.to 19:00 hrs.Picked up core bbl andran in to 99m washed to botom to 24:00 hrs.

Note: Installed Pason PIT BULL PVT system at 03:00 hrs., Tested same by Pason rep.

TEMPERATURE 7 °C WEATHER Cool LEASE & ROAD CONDITIONSGood
 DAILY COST \$18,762 PREVIOUS COST \$268,616 CUMULATIVE COST \$287,378
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 16 DATE 16/03/10
 DEPTH 142 m KB PROGRESS 41 m HRS. ON BOTTOM 17 CONTRACTOR Logan 44
 OPERATION 06:00 hrs.Coring at 160m SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		41	21	1.95							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1000																	

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. Coring	21.00	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	0.50			3.					
_____ m	_____ °		4. TRIPPING	2.50	14. DRILL OUT	_____			4.					
_____ m	_____ °		5. CIRCULATING	_____	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING	_____	19. W/O/flowmeter	_____			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS

Hoisted rods removed steel cuttings on top of inner bbl. And ran back in to 2:30 hrs. Performed leak off test :pumped 30 L of water at max. of 2100 Kpa Leak off gradient of 30.7 Kpa/m to 3:30 hrs. Cored and recovered same to 24:00 hr.

Pit bull pvt checked by Pason rep and deamed woprking.Properly.

TEMPERATURE 7 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$20,026 PREVIOUS COST \$287,378 CUMULATIVE COST \$307,404
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 17 DATE 17/03/10
 DEPTH 204 m KB PROGRESS 153 m HRS. ON BOTTOM 51 CONTRACTOR Logan 44
 OPERATION 06:00 hrs.Coring at 215m SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		103	44	2.34							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1000																	

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. Coring	22.00	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	1.00	12. HEAD UP BOP	_____			2.					
_____ m	_____ °		3. SURVEYING		13. PRESSURE TEST	_____			3.					
_____ m	_____ °		4. TRIPPING	1.00	14. DRILL OUT	_____			4.					
_____ m	_____ °		5. CIRCULATING		15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING		16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING		17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.		18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING		19. W/O/flowmeter	_____			9.					
_____ m	_____ °		10. CEMENTING		TOTAL HOURS	24.00			10.					

REMARKS

Cuting core to 02:00 hrs. Tripped ,cuttings in core bbl.to 03:00 hrs. cored to 190mto 18:00 hrs.Servicing equipment to 19:00 hrs.

Cored to 204m at 24:00 hrs.

TEMPERATURE 7 °C WEATHER Cool LEASE & ROAD CONDITIONSGood
 DAILY COST \$20,108 PREVIOUS COST \$307,404 CUMULATIVE COST \$327,512
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 18 DATE 18/03/10
 DEPTH 253 m KB PROGRESS 49 m HRS. ON BOTTOM 24 CONTRACTOR Logan 44
 OPERATION 06:00 hrs.Coring at 267m SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		152	68	2.34							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1000																	

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS		TIME BREAKDOWN								MUD ADDITIVES					
_____ m	_____ °	1. Coring	24.00	11. WAIT ON CEMENT	_____	1.	_____	_____	_____	1.	_____	_____	_____	_____	_____
_____ m	_____ °	2. RIG SERVICE	_____	12. HEAD UP BOP	_____	2.	_____	_____	_____	2.	_____	_____	_____	_____	_____
_____ m	_____ °	3. SURVEYING	_____	13. PRESSURE TEST	_____	3.	_____	_____	_____	3.	_____	_____	_____	_____	_____
_____ m	_____ °	4. TRIPPING	_____	14. DRILL OUT	_____	4.	_____	_____	_____	4.	_____	_____	_____	_____	_____
_____ m	_____ °	5. CIRCULATING	_____	15. LOGGING	_____	5.	_____	_____	_____	5.	_____	_____	_____	_____	_____
_____ m	_____ °	6. REPAIRING	_____	16. TESTING	_____	6.	_____	_____	_____	6.	_____	_____	_____	_____	_____
_____ m	_____ °	7. REAMING	_____	17. SAFETY MTG.	_____	7.	_____	_____	_____	7.	_____	_____	_____	_____	_____
_____ m	_____ °	8. CLEAN TO BTM.	_____	18. R/U	_____	8.	_____	_____	_____	8.	_____	_____	_____	_____	_____
_____ m	_____ °	9. RUN CASING	_____	19. W/O/flowmeter	_____	9.	_____	_____	_____	9.	_____	_____	_____	_____	_____
_____ m	_____ °	10. CEMENTING	_____	TOTAL HOURS	24.00	10.	_____	_____	_____	10.	_____	_____	_____	_____	_____

REMARKS

Coring from 204m to 253m to 24:00 hrs.

TEMPERATURE -8 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$75,730 PREVIOUS COST \$327,512 CUMULATIVE COST \$403,242
 REPORT FROM: Stan Podulsky TAKEN BY: _____ E MAIL _____

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 19 DATE 19/03/10
 DEPTH 273 m KB PROGRESS 20 m HRS. ON BOTTOM 8 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. CIRCULATING TO STABILIZE WELL SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		172	76	2.26							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1000																	

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES		
_____m	_____°		1.	Coring	8.00	11.	WAIT ON CEMENT	_____	1.		_____
_____m	_____°		2.	RIG SERVICE	_____	12.	HEAD UP BOP	_____	2.	Salt	50
_____m	_____°		3.	SURVEYING	_____	13.	PRESSURE TEST	_____	3.		_____
_____m	_____°		4.	TRIPPING	_____	14.	DRILL OUT	_____	4.		_____
_____m	_____°		5.	CIRCULATING	16.00	15.	LOGGING	_____	5.		_____
_____m	_____°		6.	REPAIRING	_____	16.	TESTING	_____	6.		_____
_____m	_____°		7.	REAMING	_____	17.	SAFETY MTG.	_____	7.		_____
_____m	_____°		8.	CLEAN TO BTM.	_____	18.	R/U	_____	8.		_____
_____m	_____°		9.	RUN CASING	_____	19.	W/O/flowmeter	_____	9.		_____
_____m	_____°		10.	CEMENTING	_____		TOTAL HOURS	24.00	10.		_____

REMARKS

Cutting core from 253m to 268m to 06:00 hr. Circulate and service rig to 07:00 hrs. Coring to 273m to 09:45 hrs. Well kicked and was shut-in to 10:15 hrs (had to open csg to pit as pressure of gas column exceeded MACP of 2100 kPa, SIDPP 500 kPa). Waited on salt

from Corner Brook to 16:00 hrs. Circulated and mixed NaCl salt to raise density to 24:00 hrs.

Unable to get density above 1200 kg/m3 to 24:00 hrs.

Function tested BOPs - OK.

TEMPERATURE -8 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$18,814 PREVIOUS COST \$403,242 CUMULATIVE COST \$422,056

REPORT FROM: Stan Podulsky

TAKEN BY:

E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 20 DATE 20/03/10
 DEPTH 273 m KB PROGRESS 0 m HRS. ON BOTTOM 8 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Mixing CaCl2 to increase density SUPERVISOR S PODULSKY
 GRD. ELEV. _____ m KB to GL 3.24 m KB ELEV. _____ m KB to CF _____ m
 PIPE TALLY _____ m BOARD _____ m DIFFERENCE _____ m CORRECTION (YES/NO) _____
 WEIGHT OF STRING _____ daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No. _____
 BHA _____ D.C. (OD) _____ mm THREAD _____ No. _____

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		172	76	2.26							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1200	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
_____ m	_____ °		1. Coring	_____	11. WAIT ON CEMENT	_____			1.					
_____ m	_____ °		2. RIG SERVICE	_____	12. HEAD UP BOP	_____			2. Salt		50			
_____ m	_____ °		3. SURVEYING	_____	13. PRESSURE TEST	_____			3. CaCl2					
_____ m	_____ °		4. TRIPPING	_____	14. DRILL OUT	_____			4.					
_____ m	_____ °		5. CIRCULATING	24.00	15. LOGGING	_____			5.					
_____ m	_____ °		6. REPAIRING	_____	16. TESTING	_____			6.					
_____ m	_____ °		7. REAMING	_____	17. SAFETY MTG.	_____			7.					
_____ m	_____ °		8. CLEAN TO BTM.	_____	18. R/U	_____			8.					
_____ m	_____ °		9. RUN CASING	_____	19. W/O/flowmeter	_____			9.					
_____ m	_____ °		10. CEMENTING	_____	TOTAL HOURS	24.00			10.					

REMARKS

Mixd NACL to increase density, to 02:30 hrs. Shut well in Sicp 1500Kpa Sidpp 1400Kpa Circulated and mixed salt to 08:00 hrs.

shut weshut well in Sicp 1500 Sidpp 1400Kpa.to 08:00 hrs.Circulated and built volume to 10:00 hrs. Shut well inCasing 700,Drill pipe

pressure 0Kpa.to10:30 hrs.Circulated to tanks to 12:30 Circulated through choke Casing pressure 700 Kpato14:00 hrs.Bledwell

off to floww check wellmaking 4 to 5liters of liiquid per minute and stable , continue flow check to 24:00 hrs.(While waiting on

CaCl2)

TEMPERATURE	-8 °C	WEATHER	Cool	LEASE & ROAD CONDITIONS	Good
DAILY COST	\$19,030	PREVIOUS COST	\$422,056	CUMULATIVE COST	\$441,086
REPORT FROM:	Stan Podulsky	TAKEN BY:		E MAIL	

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 21 DATE 21/03/10
 DEPTH 277 m KB PROGRESS 4 m HRS. ON BOTTOM 1 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. coring @ 291M SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 180 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.	1	Longyear	101		176	77	2.28							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1300	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u>1.00</u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Salt	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>200</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>10.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u>9.00</u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/CaCl2	<u>4.00</u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Waited on CaCl2 to 03:30 hr.and unloaded same to 03:45 hrs.Mixed CaCl2 o12:00 hrs. Circulated without inner bbl.to 12:30 Pumped down inner bbl. Tube plugged with CaCl2 to 13:00 hrs. tripped to recover inner bbl. To19:00 hrs. tripped back in to 19:00 hrs. hit obstruction at 54M (114.3mm casing parted) worked pipe through obstruction and ran in to bottom to 21:00 hrs. conditiond mud to (Lowered density to 1300 Kg/m3 to 23:00 hrs. Pumped down inner bbl.Performed 15min flowcheck OK. And continued coring to 24:00 hrs.

TEMPERATURE -8 °C WEATHER Cool LEASE & ROAD CONDITIONSGood
 DAILY COST \$23,072 PREVIOUS COST \$441,086 CUMULATIVE COST \$464,158
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 22 DATE 22/03/10
 DEPTH 334 m KB PROGRESS 57 m HRS. ON BOTTOM 24 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. coring @ 340M SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.1	1	Longyear	101		233	101	2.3							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1300	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u>24.00</u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u>4</u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>75</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/CaCl2	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Cored from 277 to334m to 24:00hrs.

Function tested Anular preventer while pulling core.

TEMPERATURE -3 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$26,979 PREVIOUS COST \$464,158 CUMULATIVE COST \$491,137
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 23 DATE 23/03/10
 DEPTH 379 m KB PROGRESS 45 m HRS. ON BOTTOM 20.5 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. coring @ 393M SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.1	1	Longyear	101		278	121.5	2.28							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca ⁺⁺ (mg/l)	K ⁺ (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1300	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u>20.50</u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u>0.50</u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u>1</u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>64</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.					
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.					
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.					
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.					
<u> </u> m	<u> </u> °		8. Condition mud	<u>3.00</u>	18. R/U	<u> </u>			8.					
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/CaCl2	<u> </u>			9.					
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.					

REMARKS

Cored from 334m to 340 m to 03:00hrs. Cleaned mud tanks and mixed mud to 18:30 hrs.3hrs.Serviced rig to 19:00 hrs. Cut core to 379m to 24:00 hrs.
 Function tested pipe rams while pulling core.

TEMPERATURE -3 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$25,904 PREVIOUS COST \$491,137 CUMULATIVE COST \$517,041
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 24 DATE 24/03/10
 DEPTH 409 m KB PROGRESS 30 m HRS. ON BOTTOM 13 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. coring @ 424M SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101		278	134.5	2.06							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca ⁺⁺ (mg/l)	K ⁺ (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1150	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u>13.00</u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>103</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>1.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u>1.00</u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u>5.00</u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/O	<u>4.00</u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Cored to 382m to 02:30 hrs. Circulated to 3:30 hrs to condition mud.Cored to 399.m to 10:15 hrs. Waited on orders to 14:15 hrs. Waited on vac truck and cleaned mud tanks to 19:00 hrs.coredto 21:00 hrs. Electrical problems to 22:00 hrs.Cored to 409m to 24:00 hrs.

(Checked Bops while pulling core)

TEMPERATURE 3 °C WEATHER Mild LEASE & ROAD CONDITIONSGood
 DAILY COST \$29,489 PREVIOUS COST \$517,041 CUMULATIVE COST \$546,530
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 25 DATE 25/03/10
 DEPTH 442 m KB PROGRESS 33 m HRS. ON BOTTOM 19 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Circulate wait on logging tools. SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101		360	151.5	2.37							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca ⁺⁺ (mg/l)	K ⁺ (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1170	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u>19.00</u>	11. WAIT ON CEMENT	<u> </u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u>1.00</u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>97</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>1.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u>3.00</u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/O	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Coring from 409 m to 433 m to 12:30 hrs. Worked on flareline to 13:30 hrs. Cored from 433 m to 439 m to 17:00 hrs. Serviced drill and equipment to 18:00 hrs. Cored from 439 m to 442 m. to 21:00 hrs.

TD 442 m Circulated and mixed caCl2 to 24:00 hrs.

TEMPERATURE -6 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$23,208 PREVIOUS COST \$546,530 CUMULATIVE COST \$569,738
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 26 DATE 26/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Circulate wait on logging tools. Running in wih 114.3 Csg SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101	442	341	151.5	2.25							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1170	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.	<u> </u>				
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u>1.00</u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u>1.50</u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>26</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u>9.50</u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>9.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u>3.00</u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/O	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Circulated on bottom to condition mud to 14:30 hrs. Pulled out coring string and laid down bbl.17:00 hrs.

(Ran 5 surveys while tripping out) Madeup 4.5 spear and latched on to 14.3mm casing, tried to pull same

to 19:00 hrs. (support ring on casing hanging up in bops.) Worked casing through Bops and

pulled out 6 jts casing to 20:00 hrs. Ran back in with spear and pulled out 2 more jts. Casing to 24:00 hrs.

2 more js. Of casing still in the hole.

SURVEYS: DEPTH ANGLE DIRECTION

93 83.9 190.4

171 83.1 189.1

261 83.5 187.4

251 83.0 189.5

441 82.9 191.6

TEMPERATURE -10 °C WEATHER Cool LEASE & ROAD CONDITIONS Good

DAILY COST \$23,282 PREVIOUS COST \$569,738 CUMULATIVE COST \$593,020

REPORT FROM: Stan Podulsky

TAKEN BY:

E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS INC WERNER HATCH #1 DAY No. 27 DATE 27/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Circulate wait on logging tools. SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101	442	341	151.5	2.25							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1170	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.		<u> </u>			
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>8</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u>17.00</u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u>7.00</u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/O	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Tripped with Bowen spear to recover 4 Jts. Of casing in 2 runs, 2 jts. Each time. To 10:00 hrs. Ran ack in with 10 jts. Of 114.3 mm. casing landed at the top of the rat hole 101m K/b with the top at 6 m K/b Ran back in with Coring string to bottom Circulating waiting on Loggers.to24:00 hrs.

TEMPERATURE -10 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$23,282 PREVIOUS COST \$569,738 CUMULATIVE COST \$593,020
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS INC WERNER HATCH #1 DAY No. 28 DATE 28/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Circulate wait on logging tools. SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101	442	341	151.5	2.25							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1170	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS		TIME BREAKDOWN						MUD ADDITIVES			
<u> </u> m	<u> </u> °	1. Coring	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.	<u> </u>		
<u> </u> m	<u> </u> °	2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>		
<u> </u> m	<u> </u> °	3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>8</u>		
<u> </u> m	<u> </u> °	4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>		
<u> </u> m	<u> </u> °	5. CIRCULATING	<u> </u>	15. W/O/LOGGING	<u>24.00</u>			5.	<u> </u>		
<u> </u> m	<u> </u> °	6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>		
<u> </u> m	<u> </u> °	7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>		
<u> </u> m	<u> </u> °	8. Condition mud	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>		
<u> </u> m	<u> </u> °	9. RUN CASING	<u> </u>	19. W/O/O	<u> </u>			9.	<u> </u>		
<u> </u> m	<u> </u> °	10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>		

REMARKS

Circulated and waited on logging tools. Checkd for flow and function ested Bops. To24:00 hrs.

Released core trailer, sent back to St. Johns.

TEMPERATURE -10 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$14,032 PREVIOUS COST \$607,552 CUMULATIVE COST \$621,584
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS INC WERNER HATCH #1 DAY No. 29 DATE 29/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 Running in with core string to run plugs. SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			SERIAL NO.
									1	2	3	T	B	G	
B I T S															26703
	REAM NO.														
	CORE NO.1	1	Longyear	101	442	341	151.5	2.25							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1170	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.		<u> </u>			
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2. Poly-plus	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3. CaCl2	<u>8</u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. W/O/LOGGING	<u>24.00</u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/U	<u> </u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/O	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Circulated waiting on logging tools to 19:00 hrs. Cleaned mud tanks and mixed mud to 21:00 hrs.
 Pulled out to log to 24:00hrs.

TEMPERATURE -15 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$49,282 PREVIOUS COST \$621,584 CUMULATIVE COST \$670,866
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEERL LAKE OIL AND GAS WERNER HATCH #1 DAY No. 30 DATE 30/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS.Waiting on suspension plug no 3 SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP m/hr	NOZZLES, mm			CONDITION			#2
									1	2	3	T	B	G	
B I T S	1a	159													26703
	REAM NO.														
	CORE NO.1	1	Longyear	101	442	341	151.5	2.25							84689

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.
	1300	30																

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	0	0						
		FMC					0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u>6.50</u>			1.					
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.					
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3.					
<u> </u> m	<u> </u> °		4. TRIPPING	<u>9.00</u>	14. DRILL OUT	<u> </u>			4.					
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u>5.00</u>			5.					
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.					
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.					
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/U	<u> </u>			8.					
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. W/O/C	<u> </u>			9.					
<u> </u> m	<u> </u> °		10. CEMENTING	<u>3.50</u>	TOTAL HOURS	<u>24.00</u>			10.					

REMARKS

Rigged to and logged from 442 m to 101 m KB. to 05:00 hrs. Ran to bottom to 10:00 hrs. With core string on bottom ,
 screwed into 114.3mm casing, pulled and laid down same. to 14:00 hrs. (10 jts.) Broke circulation, mixed plug #1
 7 sacks normal portland @ 1700 Kg/m³ displaced with 2m³ mud set at 442-412m KB. Pulled 39 jts. For plug #2 323-223
 mixed 24 sacks N/P @ 1700 Kg/m³ Displaced with 1.09m³ mud. to 17:45 hrs. Pulled up to 150 M circulated and waited on
 cement to 24:00 hrs. (all plugs for suspension operations only)

Ran following logs. Multi Express Borehole Compensated Sonic, Thermal Compensated Neutron,
 Litho-Density, Dual Formation Resistivity, Gamma ray,

TEMPERATURE	<u>-8 °C</u>	WEATHER	<u>Cool</u>	LEASE & ROAD CONDITIONS	<u>Good</u>
DAILY COST	<u>\$13,777</u>	PREVIOUS COST	<u>\$670,866</u>	CUMULATIVE COST	<u>\$684,643</u>
REPORT FROM:	<u>Stan Podulsky</u>	TAKEN BY:	<u> </u>	E MAIL	<u> </u>

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 31 DATE 31/03/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS. Rig released SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP o	NOZZLES, mm			CONDITION			#2
									1	2	3	T	B	G	
B I T S															
	REAM NO.														
	CORE NO.1														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
							0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u>11.50</u>			1.	<u> </u>				
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3.	<u> </u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/O	<u>5.00</u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. Rig released	<u>5.00</u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u>2.50</u>	TOTAL HOURS	<u>24.00</u>			10.	<u> </u>				

REMARKS

Waited on cement, plug no 2 to 01:00 hrs. Tagged plug no. 215 m, and pulled up to 85 mKb. To 02:00 hrs.

Mixed 14 sax NP cement @1700 Kg m3 displaced same with 415 liters mud. To 04:30 hrs. Waited on cement to

14:00 hrs. Tagged plug no 3 at 85 mkb. Tore out rig and equipment to 19:00 hrs.

Rig released at 2010 03 19:00 hrs.

TEMPERAT -8 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$11,877 PREVIOUS COST \$685,393 CUMULATIVE COST \$697,270
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

DEER LAKE OIL AND GAS INC.

DAILY DRILLING REPORT

WELL NAME DEER LAKE OIL AND GAS WERNER HATCH #1 DAY No. 32 DATE 01/04/10
 DEPTH 442 m KB PROGRESS 0 m HRS. ON BOTTOM 0 CONTRACTOR Logan 44
 OPERATION AT 600 HRS DMOB SUPERVISOR S PODULSKY
 GRD. ELEV. 43.5 m KB to GL 3.24 m KB ELEV. 46.74 m KB to CF m
 PIPE TALLY m BOARD m DIFFERENCE m CORRECTION (YES/NO)
 WEIGHT OF STRING daN WEIGHT ON BIT 1000 daN ROTARY SPEED 600 RPM
 DRILL PIPE (OD) 89 mm THREAD 3.5 IF D.C. (OD) 123.8 mm THREAD 3.5IF No.
 BHA D.C. (OD) mm THREAD No.

	NO.	SIZE mm	MAKE & TYPE	DEPTH IN, m	DEPTH OUT, m	METERS MADE	TOTAL HOURS	ROP o	NOZZLES, mm			CONDITION			#2
									1	2	3	T	B	G	
B I T S															
	REAM NO.														
	CORE NO.1														

M U D	DENSITY (kg/m3)	VIS (sec/l)	pH	WL (cm3)	FC (mm)	PV (mPa.s)	YP (Pa)	GELS (Pa)		SOLIDS (frac)	SAND (frac)	OIL (frac)	Cl (mg/l)	Ca** (mg/l)	K* (mg/l)	SOLIDS CONTROL		
								INITIAL	10 min							HOURS	O.F.	U.F.

P U M P	No.	MAKE & MODEL	STROKE (mm)	LINER (mm)	PRESS (kPa)	SPM	VOLUME (m³/min)	AV-DP	AV-DC	KILL SPEED		LAST CASING STRING			
										SPM	PRESS	mm	kg/m	Grade	Set At
		triplex Bean					0	-0	-0						
							0.00								

SURVEYS			TIME BREAKDOWN						MUD ADDITIVES					
<u> </u> m	<u> </u> °		1. Coring	<u> </u>	11. WAIT ON CEMENT	<u> </u>			1.	<u> </u>				
<u> </u> m	<u> </u> °		2. RIG SERVICE	<u> </u>	12. HEAD UP BOP	<u> </u>			2.	<u> </u>				
<u> </u> m	<u> </u> °		3. SURVEYING	<u> </u>	13. PRESSURE TEST	<u> </u>			3.	<u> </u>				
<u> </u> m	<u> </u> °		4. TRIPPING	<u> </u>	14. DRILL OUT	<u> </u>			4.	<u> </u>				
<u> </u> m	<u> </u> °		5. CIRCULATING	<u> </u>	15. LOGGING	<u> </u>			5.	<u> </u>				
<u> </u> m	<u> </u> °		6. REPAIRING	<u> </u>	16. TESTING	<u> </u>			6.	<u> </u>				
<u> </u> m	<u> </u> °		7. REAMING	<u> </u>	17. SAFETY MTG.	<u> </u>			7.	<u> </u>				
<u> </u> m	<u> </u> °		8. Condition mud	<u> </u>	18. R/O	<u>12.00</u>			8.	<u> </u>				
<u> </u> m	<u> </u> °		9. RUN CASING	<u> </u>	19. Rig released	<u> </u>			9.	<u> </u>				
<u> </u> m	<u> </u> °		10. CEMENTING	<u> </u>	TOTAL HOURS	<u>12.00</u>			10.	<u> </u>				

REMARKS

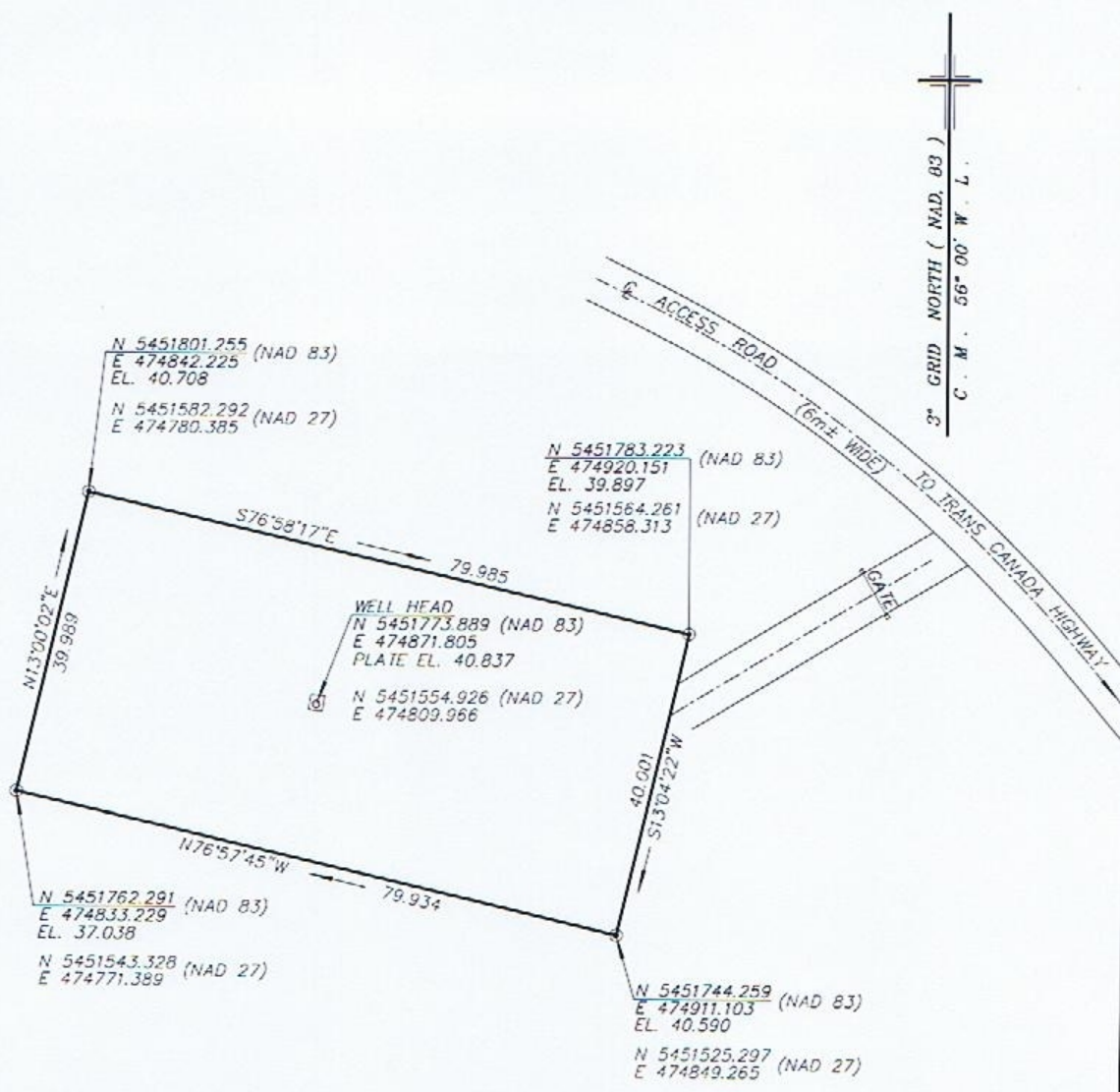
Moved rig and all rented equipment of location, Sent 1945 liters of diesel feul back to western feuls in

Corner Brook, 14 jts. Of 114.3mm casing went with the rig to rack site on Don cross' property, and marked DLOG

with yellow paint stick. Bops sent back on DD transport at 2010-04-01-12:00 hrs.

TEMPERAT -8 °C WEATHER Cool LEASE & ROAD CONDITIONS Good
 DAILY COST \$11,877 PREVIOUS COST \$685,393 CUMULATIVE COST \$697,270
 REPORT FROM: Stan Podulsky TAKEN BY: E MAIL

ATTACHMENT # 14
Well Site Legal Survey



LEGEND

CONTROL MONUMENT	⊙
CAPPED IRON PIN	⊙
FOUND IRON PIN	⊙
PK NAIL	⊙ PK
BOUNDARY LINE	—
POLE OR LIGHT STANDARD	•
HYDRANT	•
FENCE POST	FP
FENCE LINES	— x —
GUY WIRE	—
POWER-TELEPHONE LINES	—
EASEMENTS	—
CENTERLINE	— C —

REFERENCE MONUMENTS :
7702003 LATITUDE 49° 12' 58.098" EL. 21.914
LONGITUDE 57° 22' 49.318"

ALL DISTANCES SHOWN ARE HORIZONTAL GROUND
DISTANCES MEASURED IN METERS.

YATES AND WOODS LTD.

NEWFOUNDLAND LAND SURVEYORS

53 CARIBOU ROAD P.O. BOX 434 CORNER BROOK, NL.
A2H 6E3 TEL. 639-9177 E-mail: yatewood@nf.aibn.com

PLAN SHOWING WELL HEAD LOCATION,
DEER LAKE OIL AND GAS, TRANS CANADA HIGHWAY, (JUNCTION BK. AREA)
DEER LAKE, DISTRICT OF HUMBER VALLEY, NL.



SCALE: 1 : 750

DWG. NO. 10423

DRAWN BY E.R.C.

DATE: OCT. 26, 2010.