



DUAL INDUCTION LOG

Company LaVeta Oil & Gas

Well P. Spangenberg #15

Field Richardson

County Stafford State Kansas

Location: API #: 15 185 23971

735' FSL & 1225' FWL

SEC 29 TWP 22S RGE 11W

Permanent Datum Ground Level Elevation 1827'

Log Measured From KB 10' AGL

Drilling Measured From KB

Elevation

K.B. 1837'

D.F. 1836'

G.L. 1827'

Other Services

CDNL

Date 11-8-16

Run Number One

Depth Driller 3570'

Depth Logger 3575'

Bottom Logged Interval 3573'

Top Log Interval 250'

Casing Driller 8 5/8" @ 257'

Casing Logger 257'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.2/64

pH / Fluid Loss 9.2/8.8

Source of Sample Pit

Rm @ Meas. Temp 3.1@72degf

Rmf @ Meas. Temp 2.32@72degf

Rmc @ Meas. Temp 3.72@72degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.99@112degf

Time Circulation Stopped 6:00 p.m.

Time Logger on Bottom 8:30 p.m.

Maximum Recorded Temperature 112degf

Equipment Number T127

Location Hays, KS

Recorded By Gus Pfannenstiel

Witnessed By Mr. Bruce Reed

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Thanks for using Gemini Wireline LLC
785-625-1182

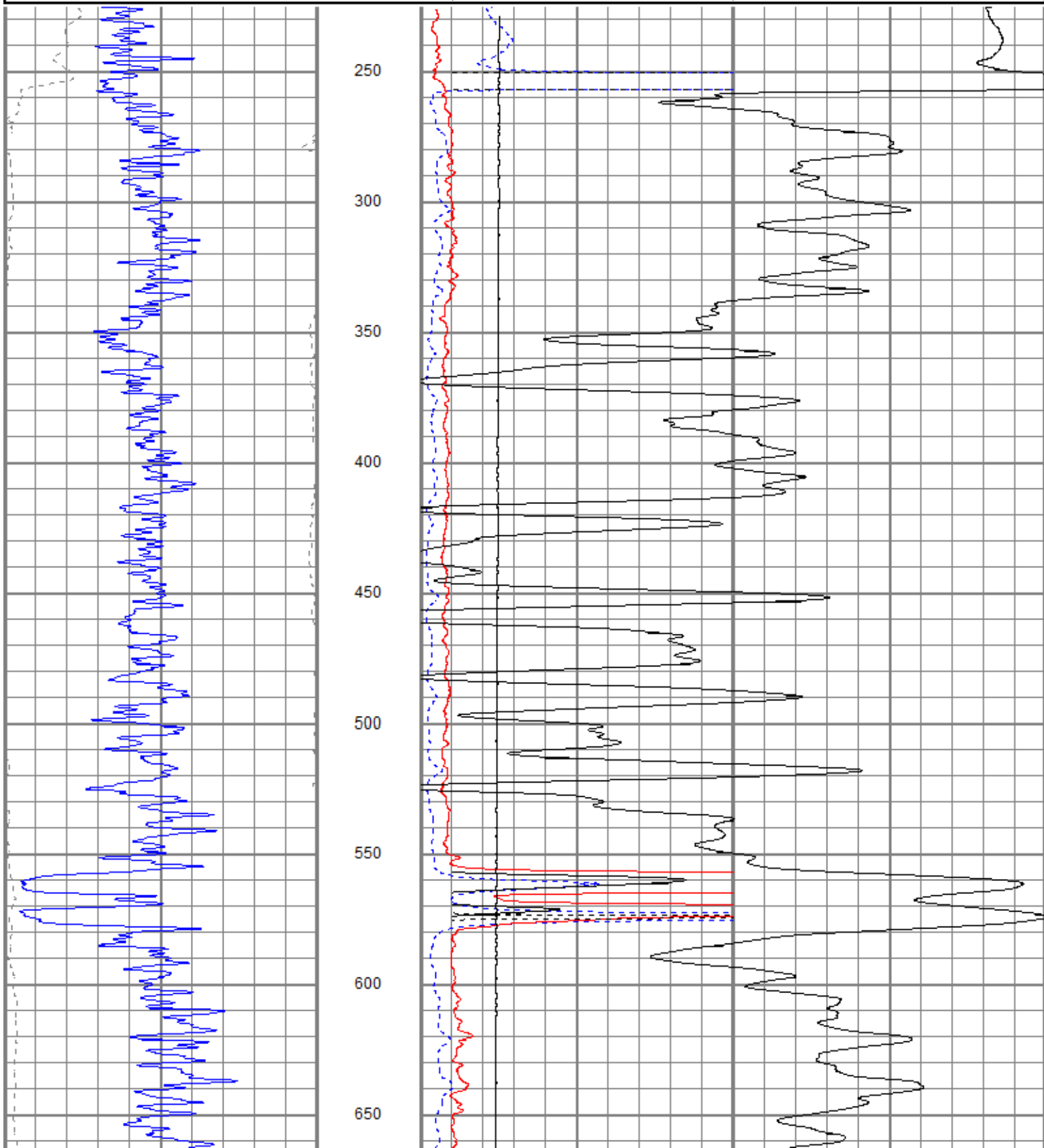


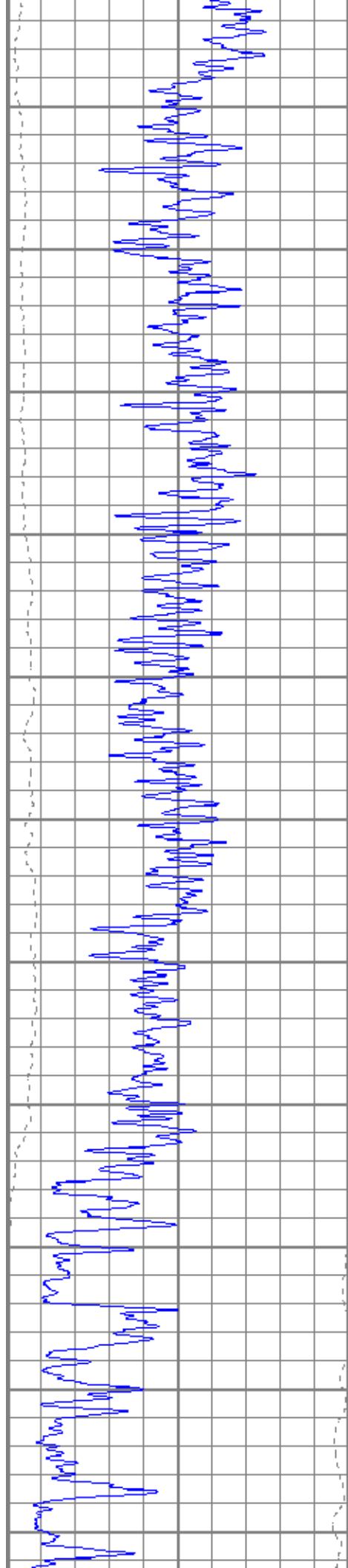
Main Pass

Database File lop.db
Dataset Pathname pass2
Presentation Format kdillin2
Dataset Creation Tue Nov 08 20:58:28 2016
Charted by Depth in Feet scaled 1:600

0	GR (GAPI)	150
-200	SP (mV)	0

1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500





700

750

800

850

900

950

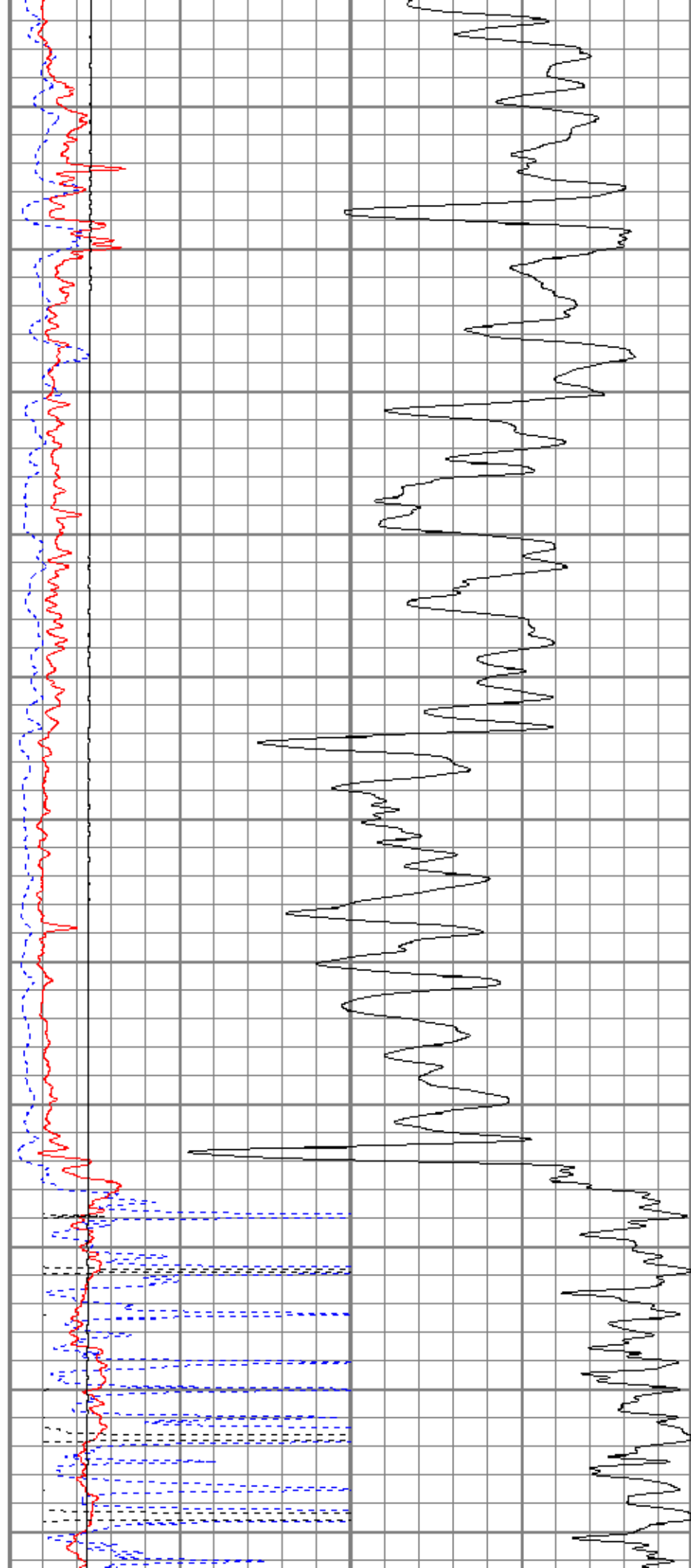
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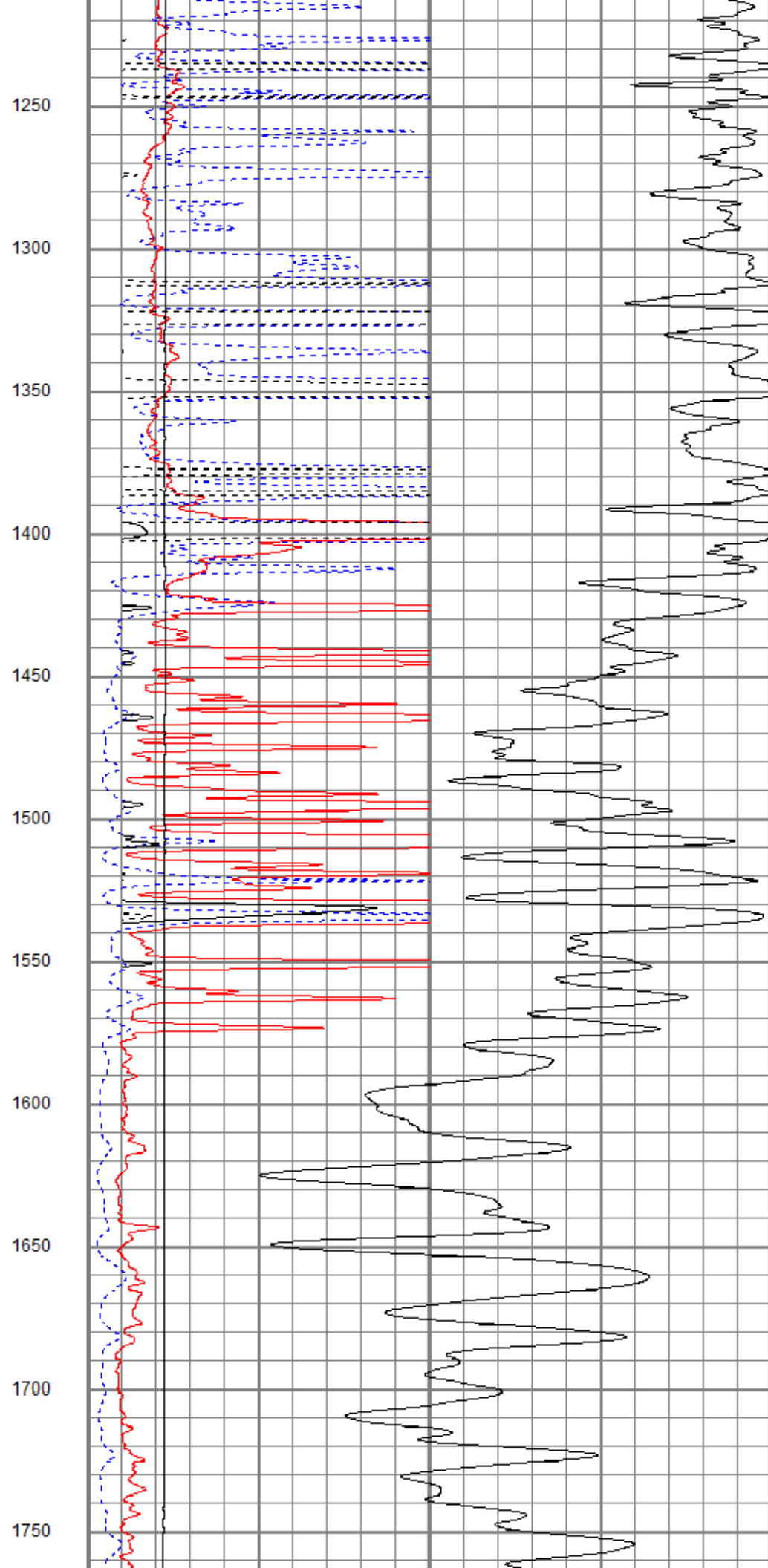
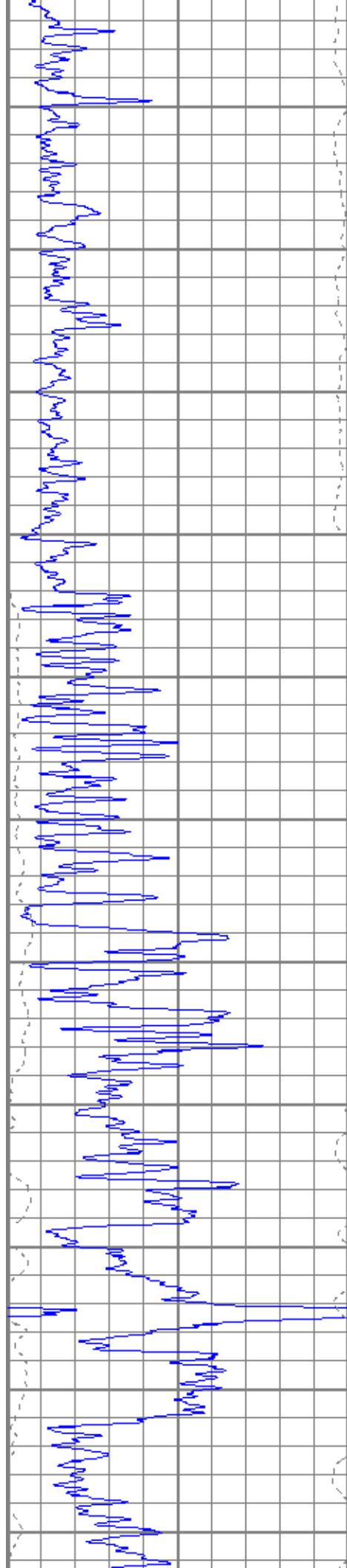
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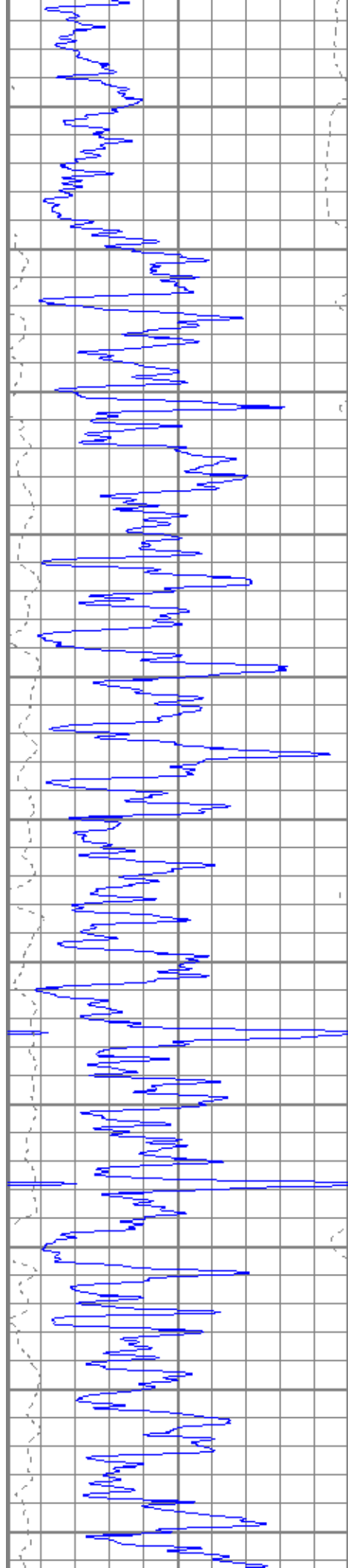
1100

1150

1200







1800

1850

1900

1950

2000

2050

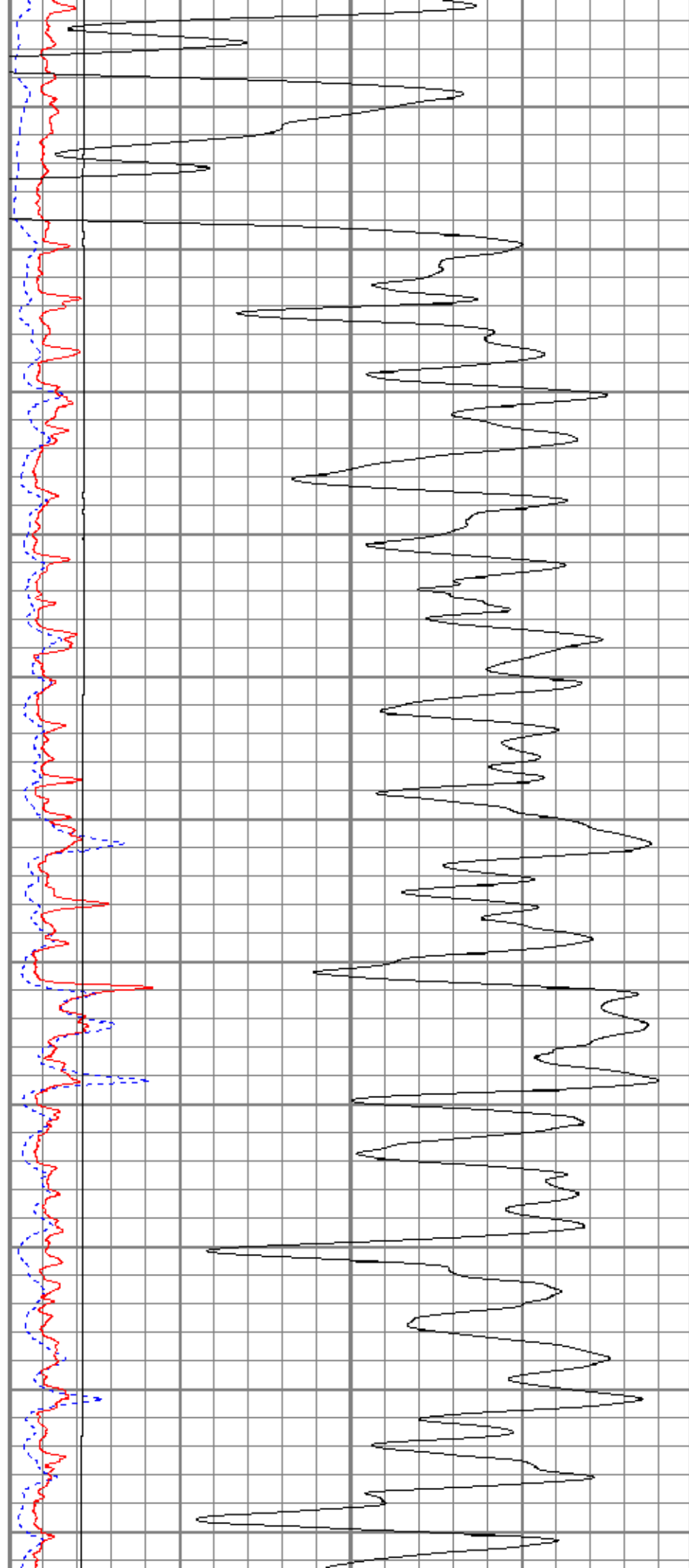
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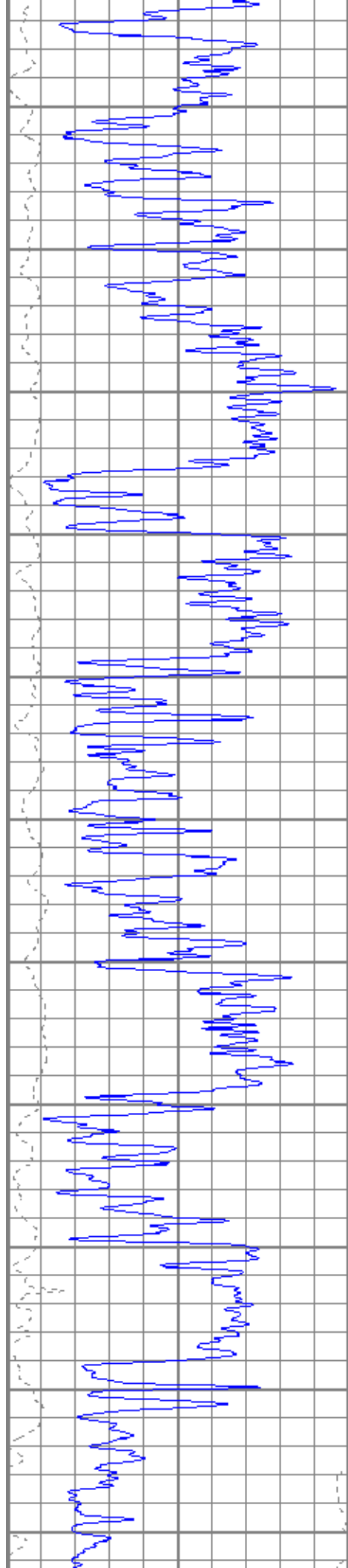
2150

2200

2250

2300





2350

2400

2450

2500

2550

2600

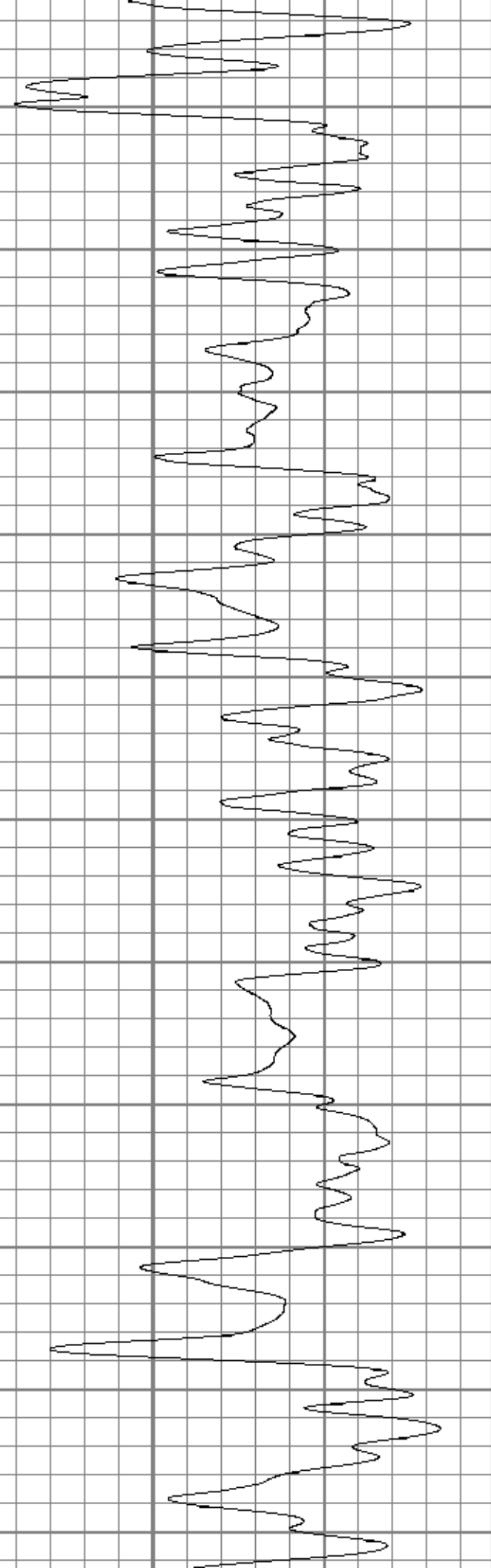
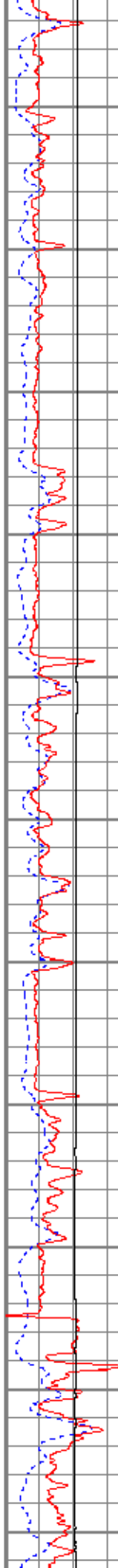
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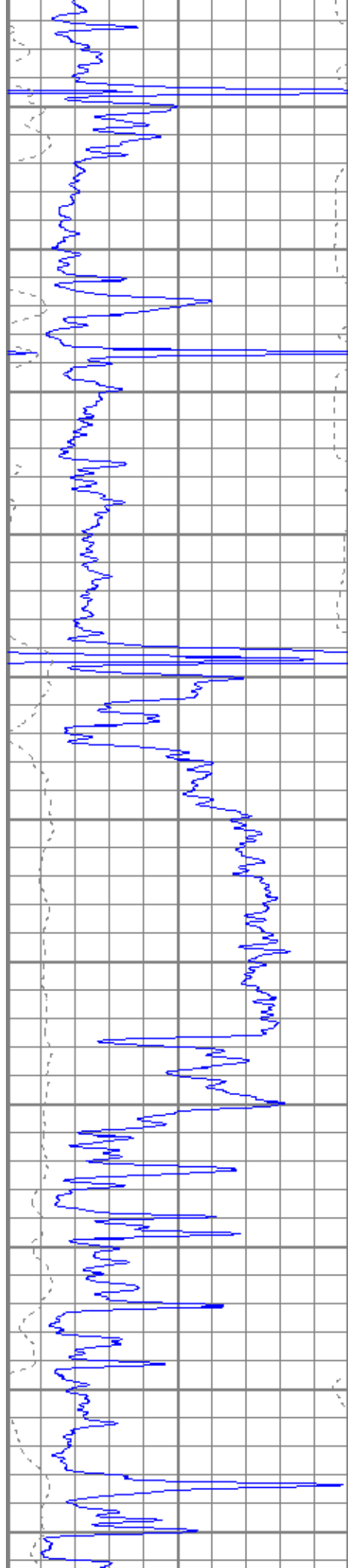
2700

2750

2800

2850





2900

2950

3000

3050

3100

3150

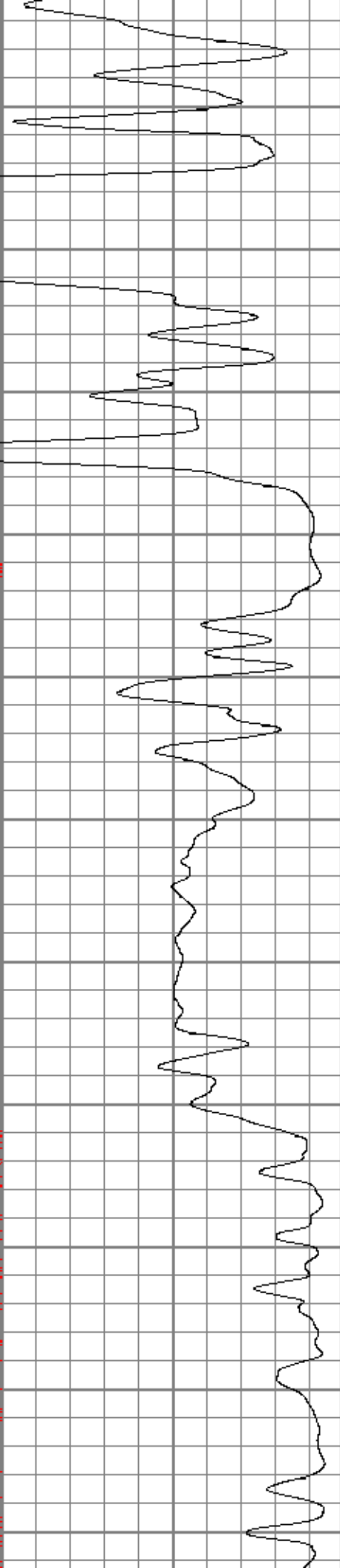
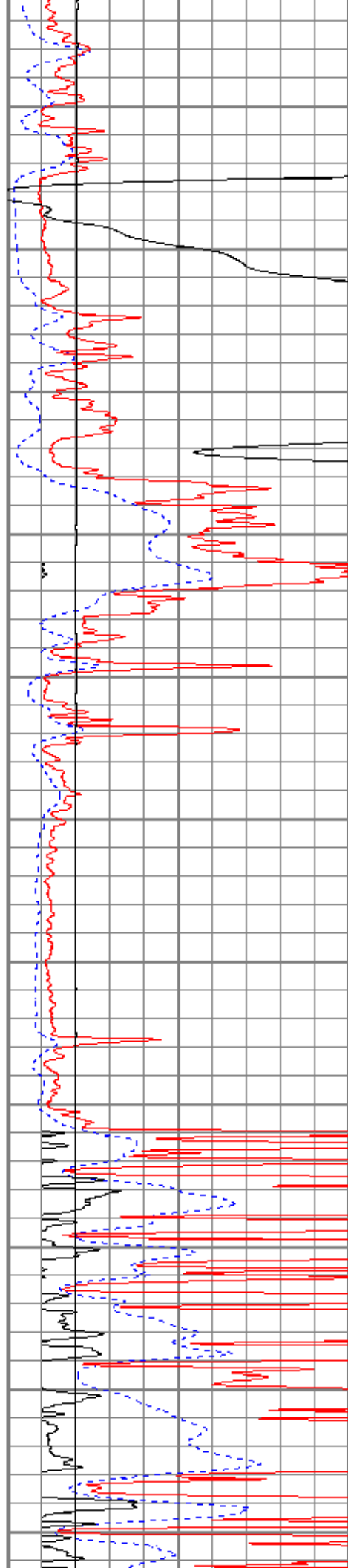
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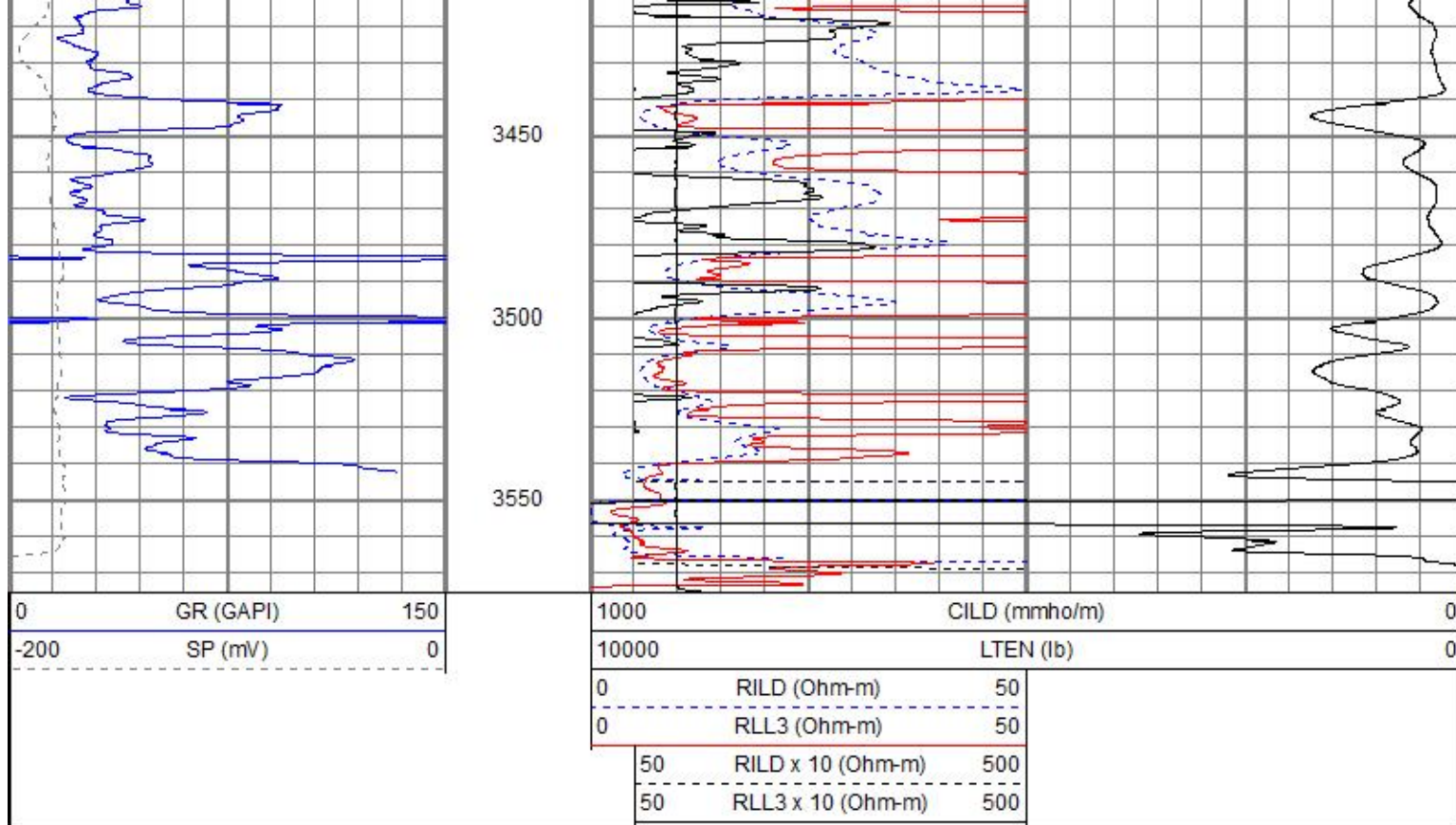
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3300

3350

3400

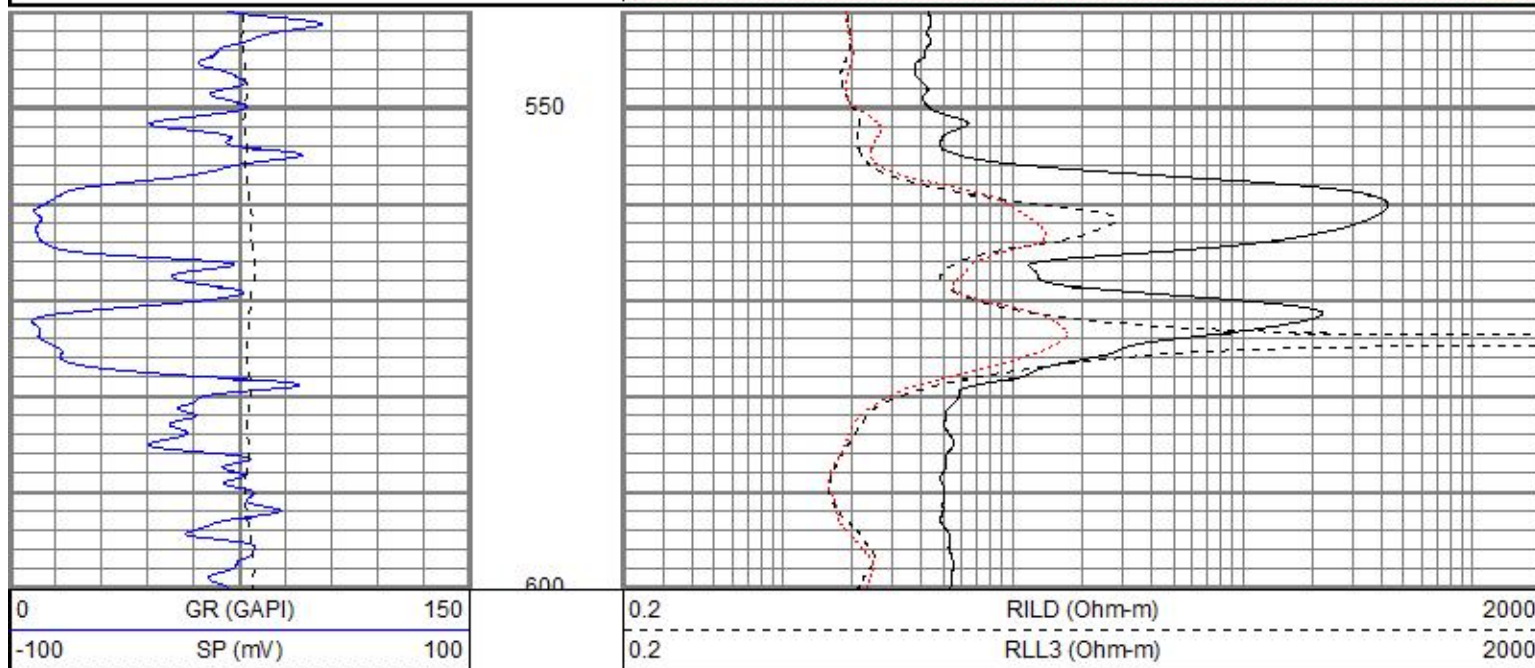




Main Pass

Database File lop.db
Dataset Pathname pass2
Presentation Format kdil
Dataset Creation Tue Nov 08 20:58:28 2016
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	0.2	RILD (Ohm-m)	2000
-100	SP (mV)	100	0.2	RLL3 (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000



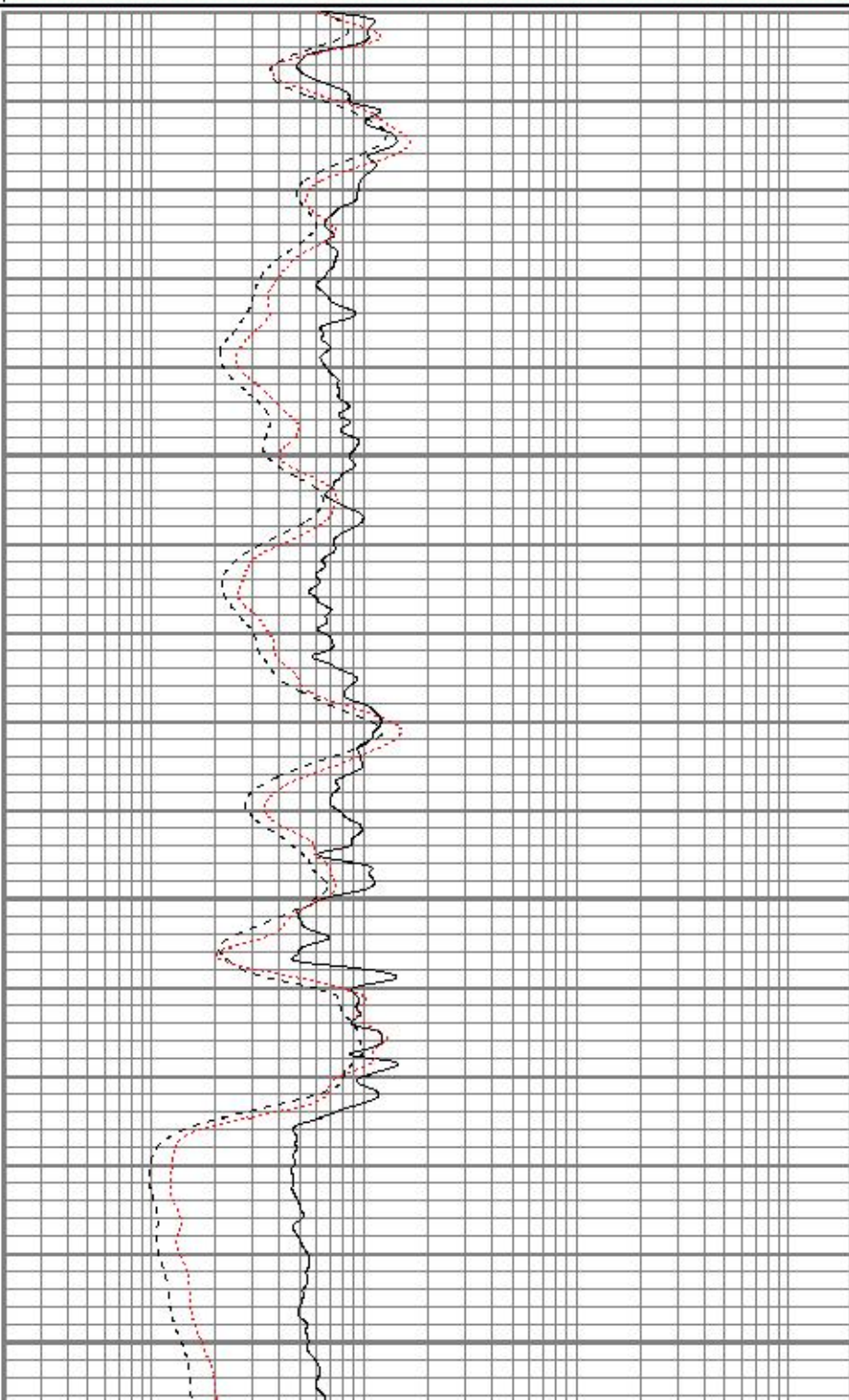
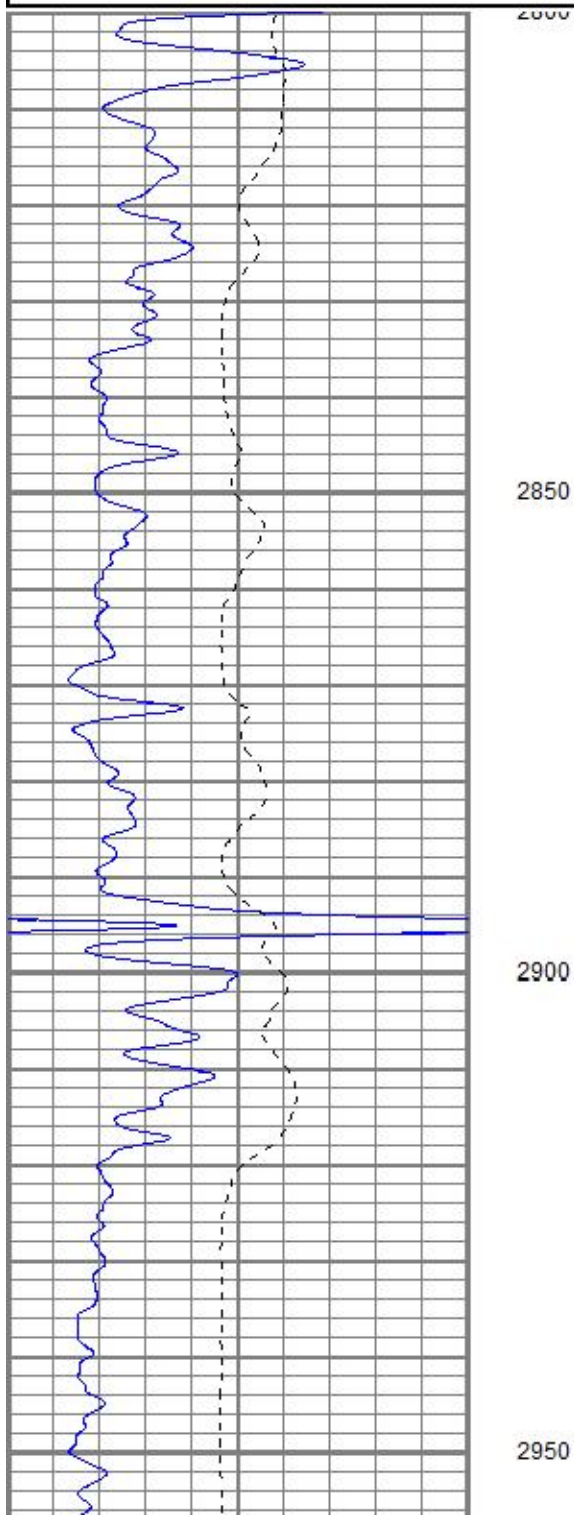


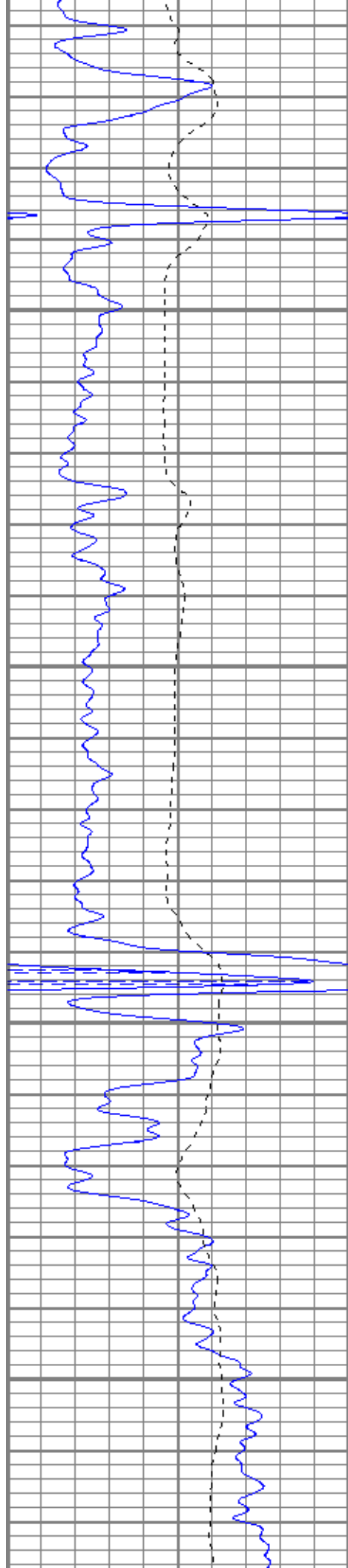
Main Pass

Database File lop.db
Dataset Pathname pass2.1
Presentation Format kdil
Dataset Creation Tue Nov 08 21:18:52 2016
Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



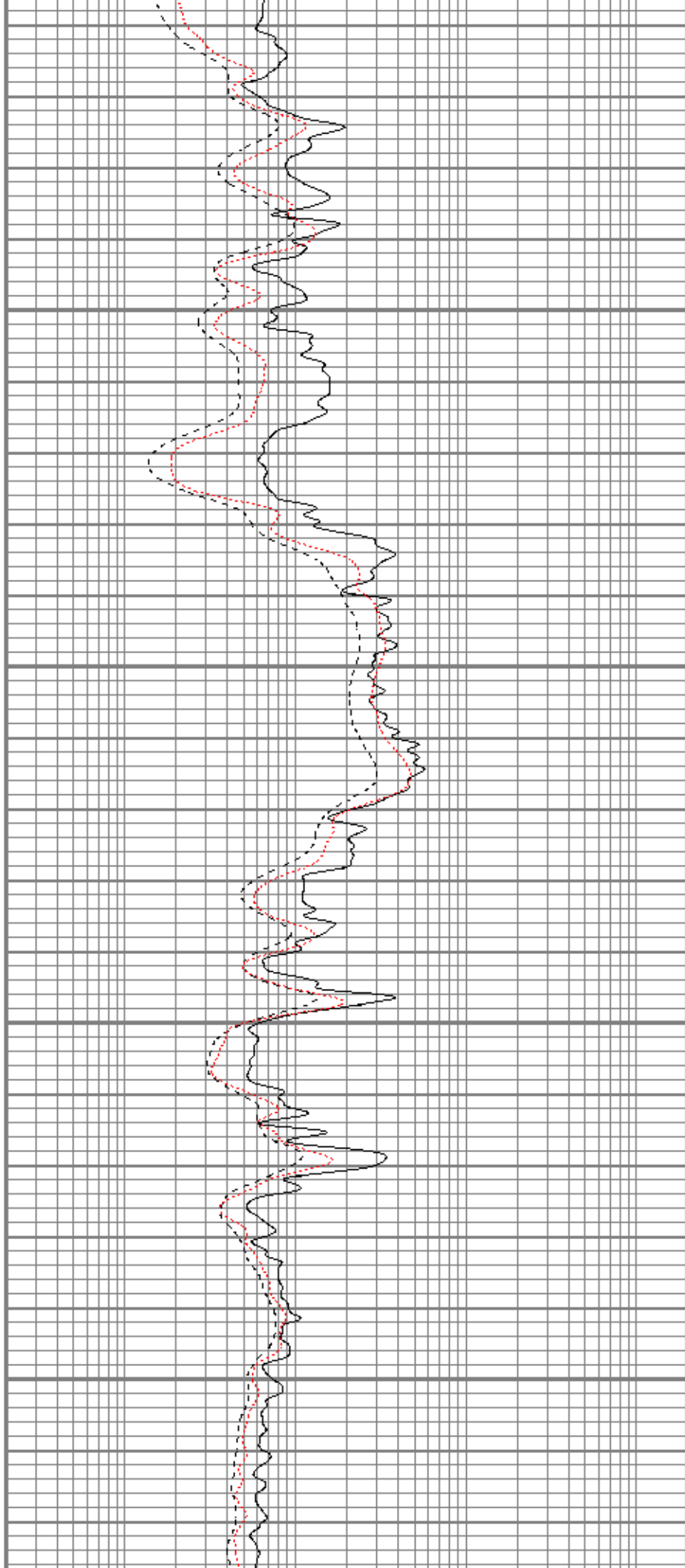


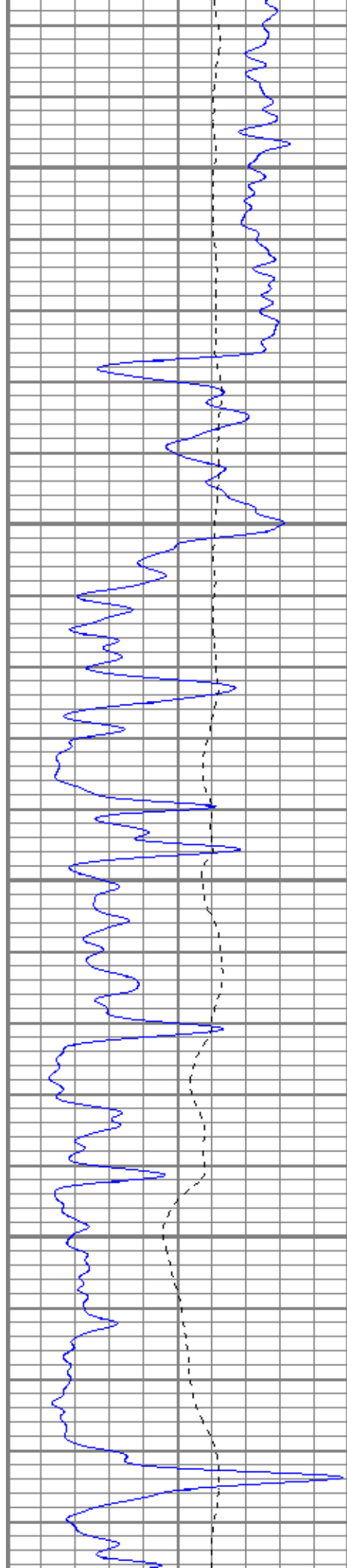
3000

3050

3100

3150



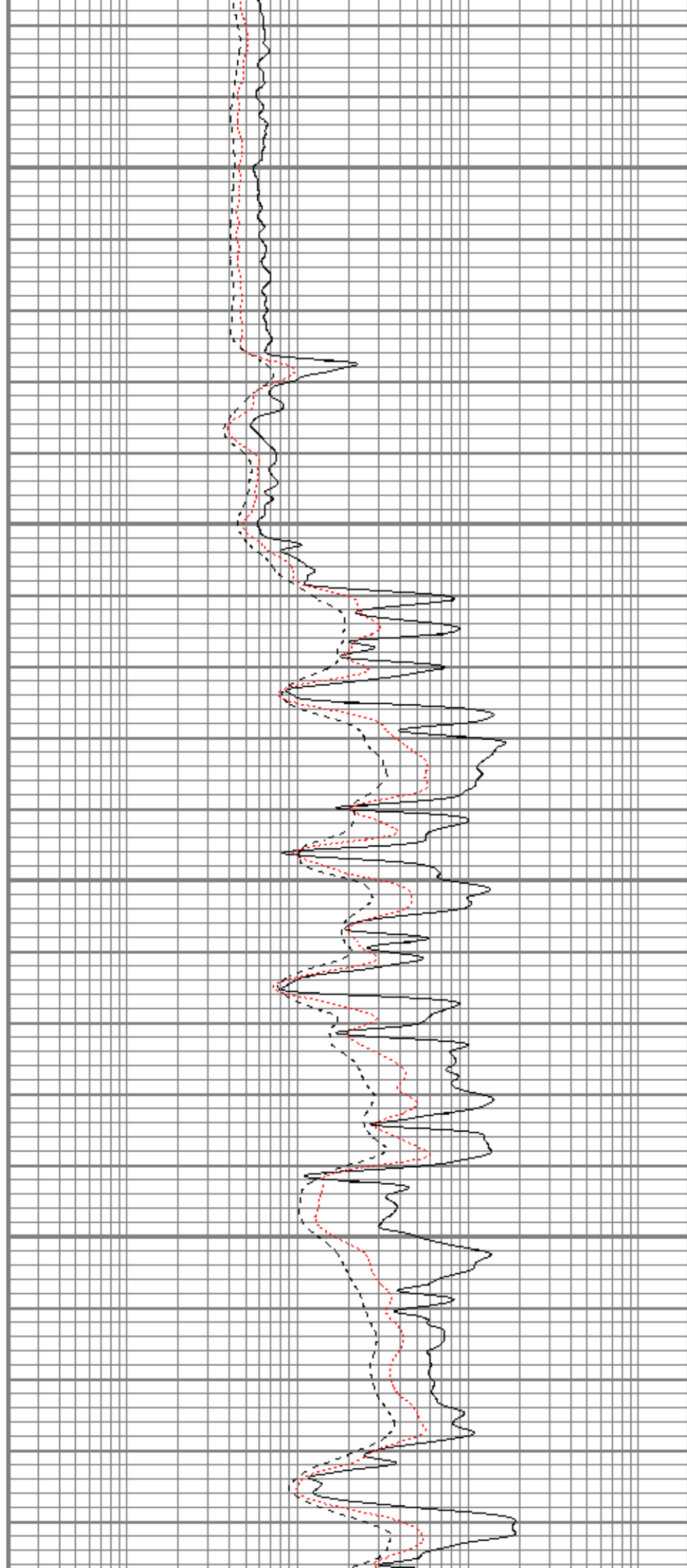


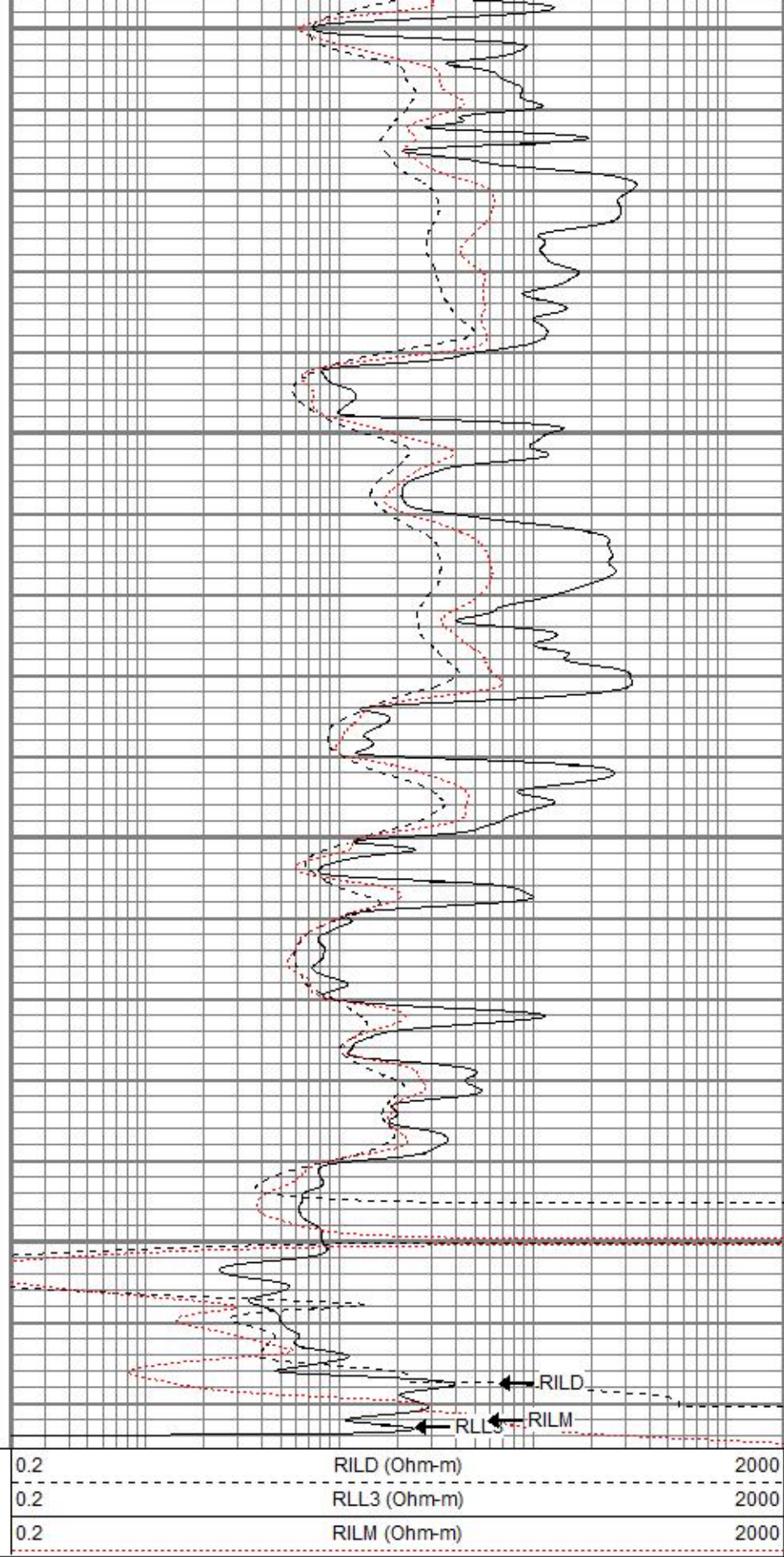
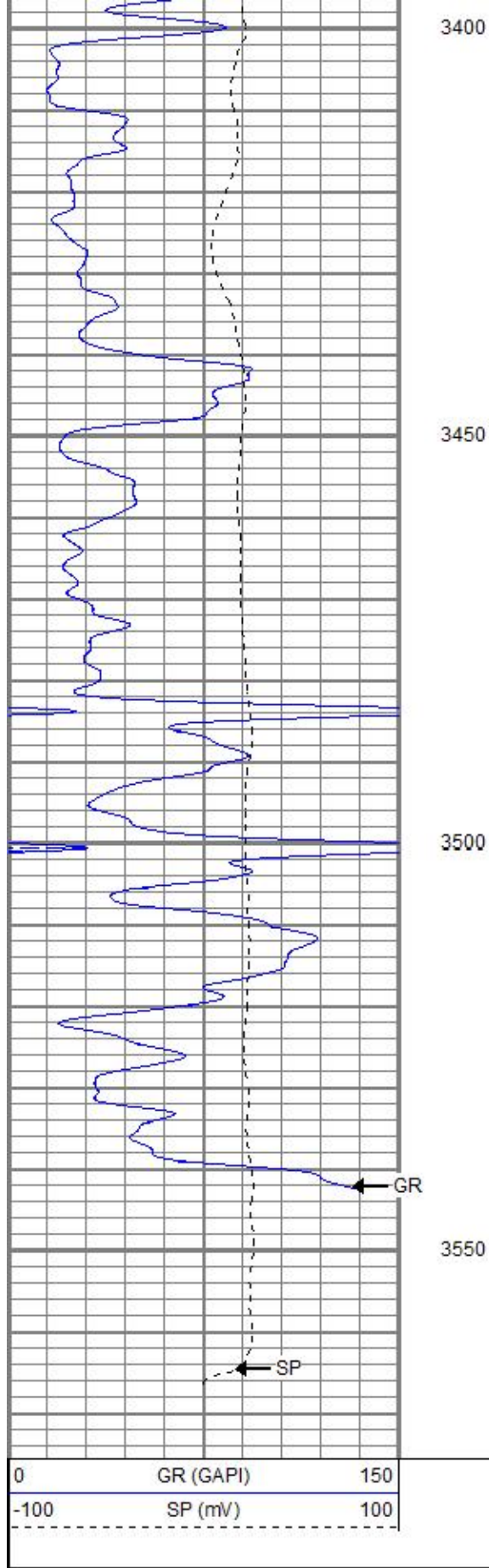
3200

3250

3300

3350



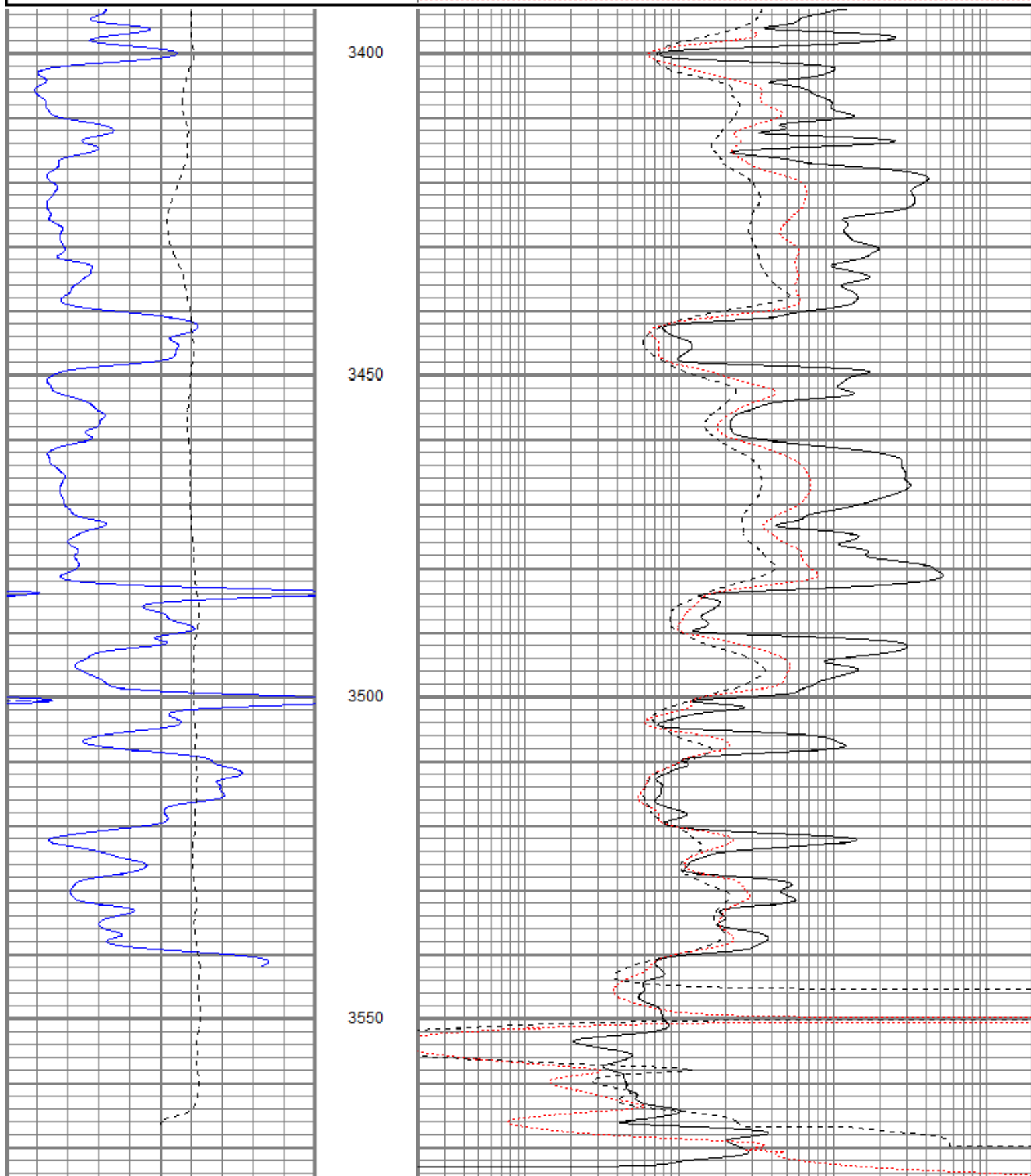


Repeat Pass

Database File	lop.db
Dataset Pathname	pass1.1
Presentation Format	kdil
Dataset Creation	Tue Nov 08 21:12:14 2016
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

100	SR (mV)	100	0.2	RILEY (Ohm-m)	2000
			0.2	RILM (Ohm-m)	2000

Calibration Report	
Database File	lop.db
Dataset Pathname	pass1.1
Dataset Creation	Tue Nov 08 21:12:14 2016

Dual Induction Calibration Report

Serial-Model:	1989-ADM
Surface Cal Performed:	Mon Jul 11 21:35:42 2016
Downhole Cal Performed:	Mon Jul 11 21:36:11 2016
After Survey Verification Performed:	Mon Jul 11 21:36:11 2016

Surface Calibration								
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Downhole Calibration								
Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-15.046

After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report
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Serial-Model:	2501DHT-DHT
Source / Verifier:	csv-j12 /
Master Calibration Performed:	Thu Jan 21 09:35:41 2016
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
Density			Far Detector	Near Detector	
Magnesium	1.750	g/cc	711.36	284.22	cps
Aluminum	2.660	g/cc	133.07	180.42	cps
Spine Angle = 74.83			Density/Spine Ratio = 0.524		
Size			Reading		
Small Ring	8.05	in	5979.71		
Large Ring	14.00	in	9974.72		

Before Survey Verification

Target

Measured

g/cc
g/cc
g/ccg/cc
g/cc
g/cc

After Survey Verification

Target

Measured

g/cc
g/cc
g/ccg/cc
g/cc
g/cc

Gamma Ray Calibration Report

Serial Number: 2000
 Tool Model: P2000
 Performed: Sun Dec 13 16:43:47 2015

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2200 GAPI/cps

Neutron Calibration Report

Serial Number: 5108
 Tool Model: PROBE
 Performed: Thu Jan 21 09:36:17 2016

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
NEU	36.60		CHD-None	0.75	1.50	5.00
			NEU-PROBE (5108) Probe	4.92	3.63	85.00
GR	30.81		GR-P2000 (2000)	3.67	3.25	40.00
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	22.02					
DCAL	21.73					
SSD	21.48					
HEADVOLT	19.71					

