



DUAL INDUCTION LOG

Company LaVeta Oil & Gas

Well Allen #15

Field Richardson

County Stafford State Kansas

Location: API #: 15 185 23972

SEC 31 TWP 22S RGE 11W

Permanent Datum Ground Level Elevation 1814'

Log Measured From KB 10' AGL

Drilling Measured From KB

Other Services
CDNL

Elevation
K.B. 1824'
D.F. 1823'
G.L. 1814'

Date 11-17-16

Run Number One

Depth Driller 3548'

Depth Logger 3552'

Bottom Logged Interval 3550'

Top Log Interval 200'

Casing Driller 8 5/8" @ 250'

Casing Logger 250'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.35/52

pH / Fluid Loss 10.5/9.2

Source of Sample Pit

Rm @ Meas. Temp 2.6@66degf

Rmf @ Meas. Temp 1.95@66degf

Rmc @ Meas. Temp 3.12@66degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.53@112degf

Time Circulation Stopped 6:00 a.m.

Time Logger on Bottom 8:00 a.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

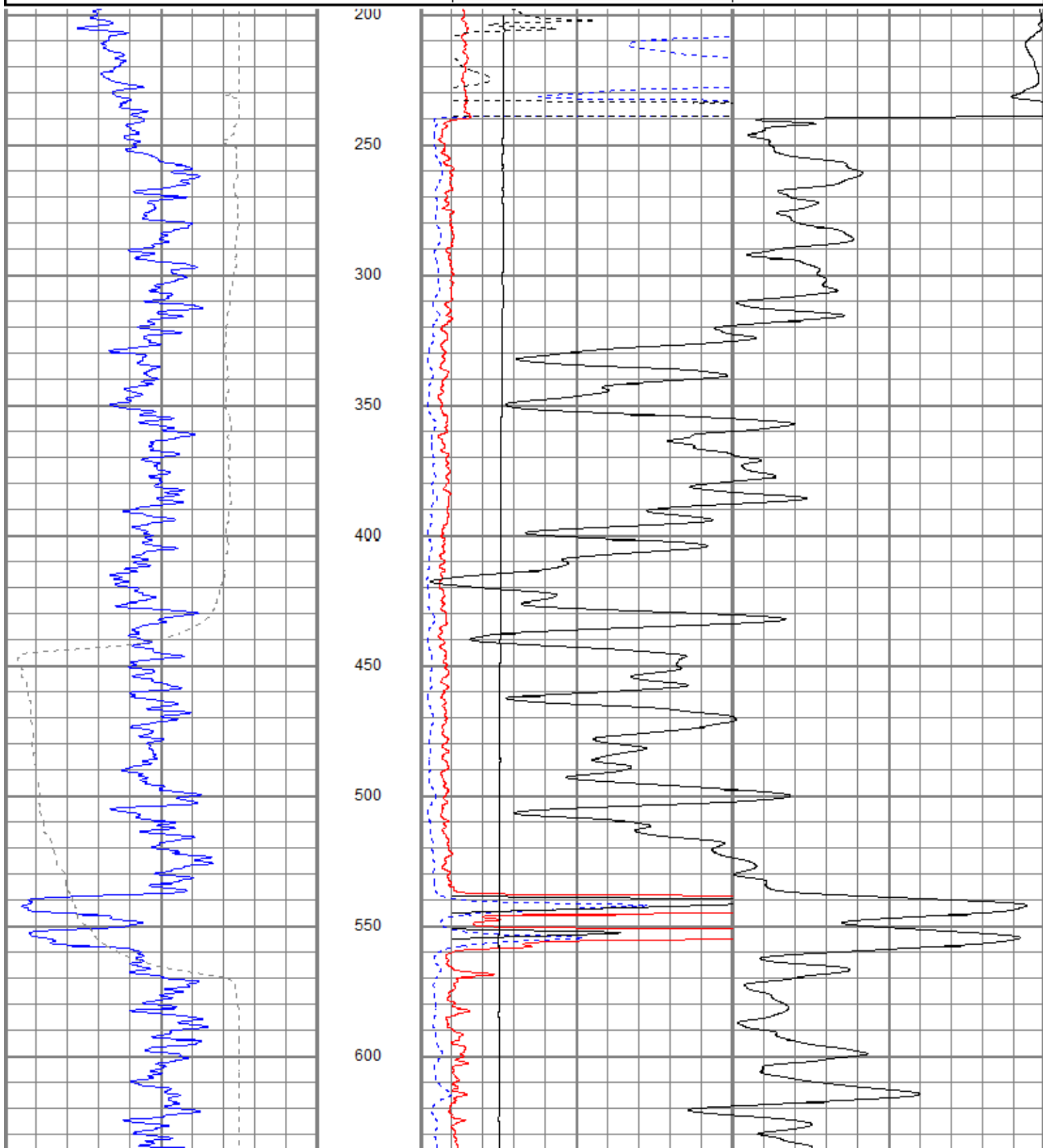


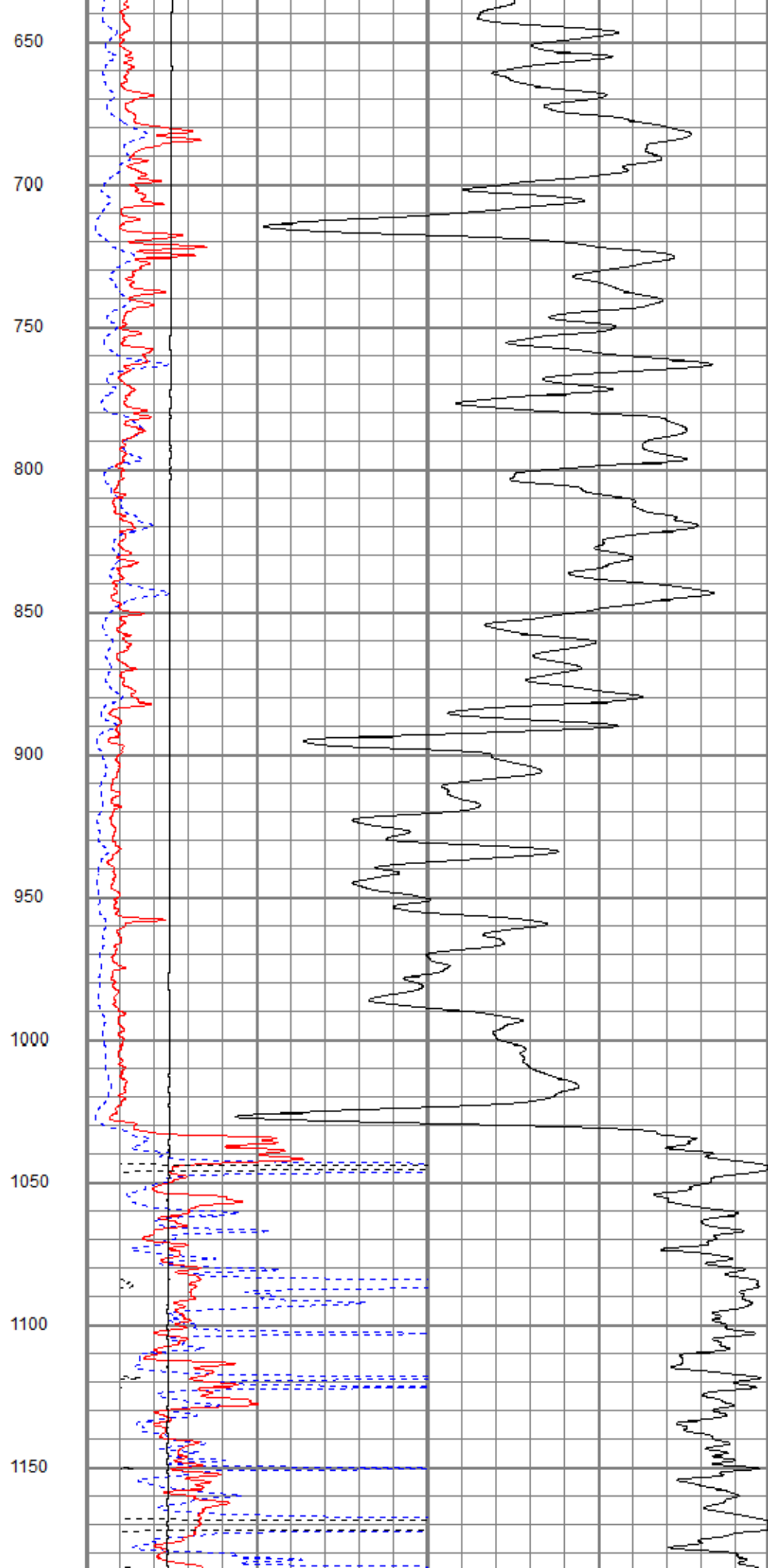
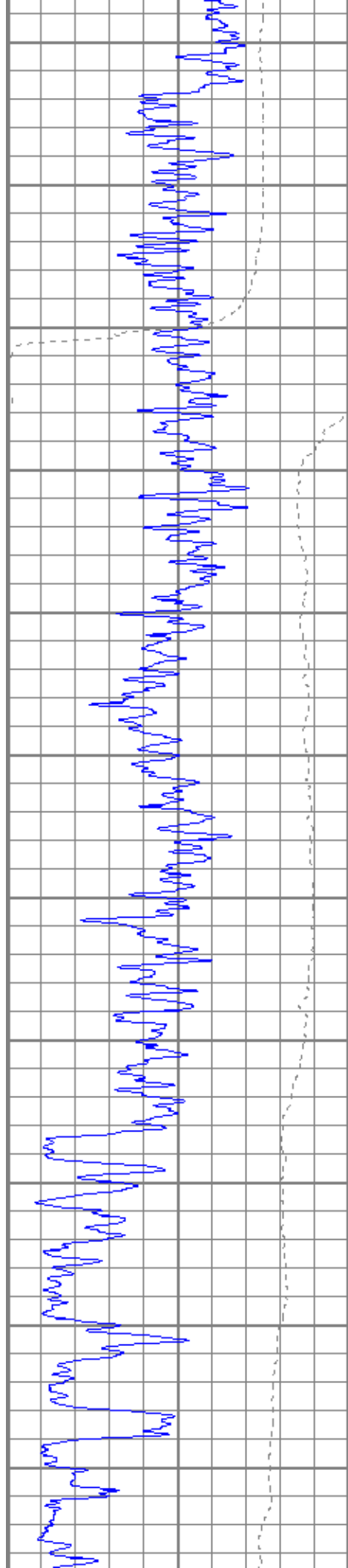
Main Pass

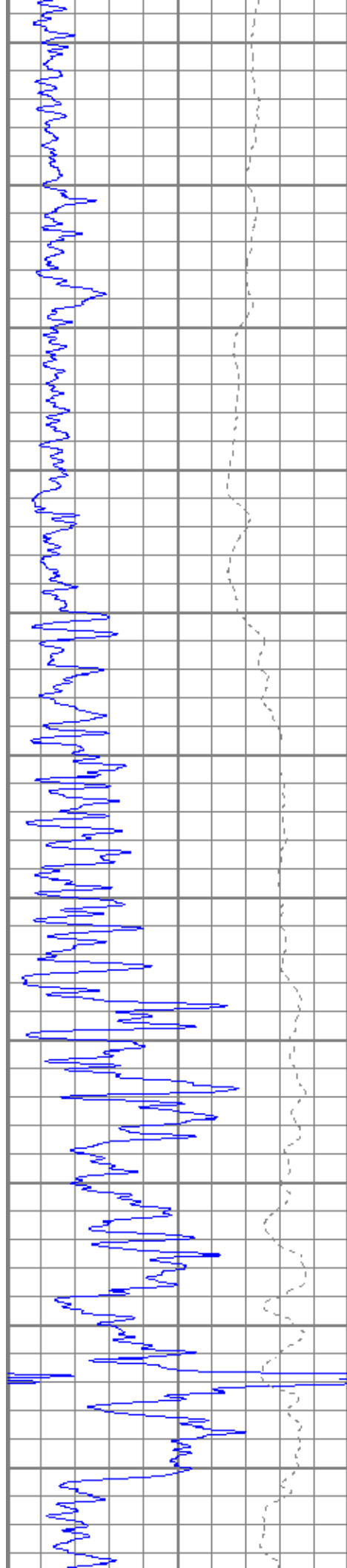
Database File loallen#15oh.db
Dataset Pathname pass2dil
Presentation Format kdillin2
Dataset Creation Thu Nov 17 09:09:41 2016
Charted by Depth in Feet scaled 1:600

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







1200

1250

1300

1350

1400

1450

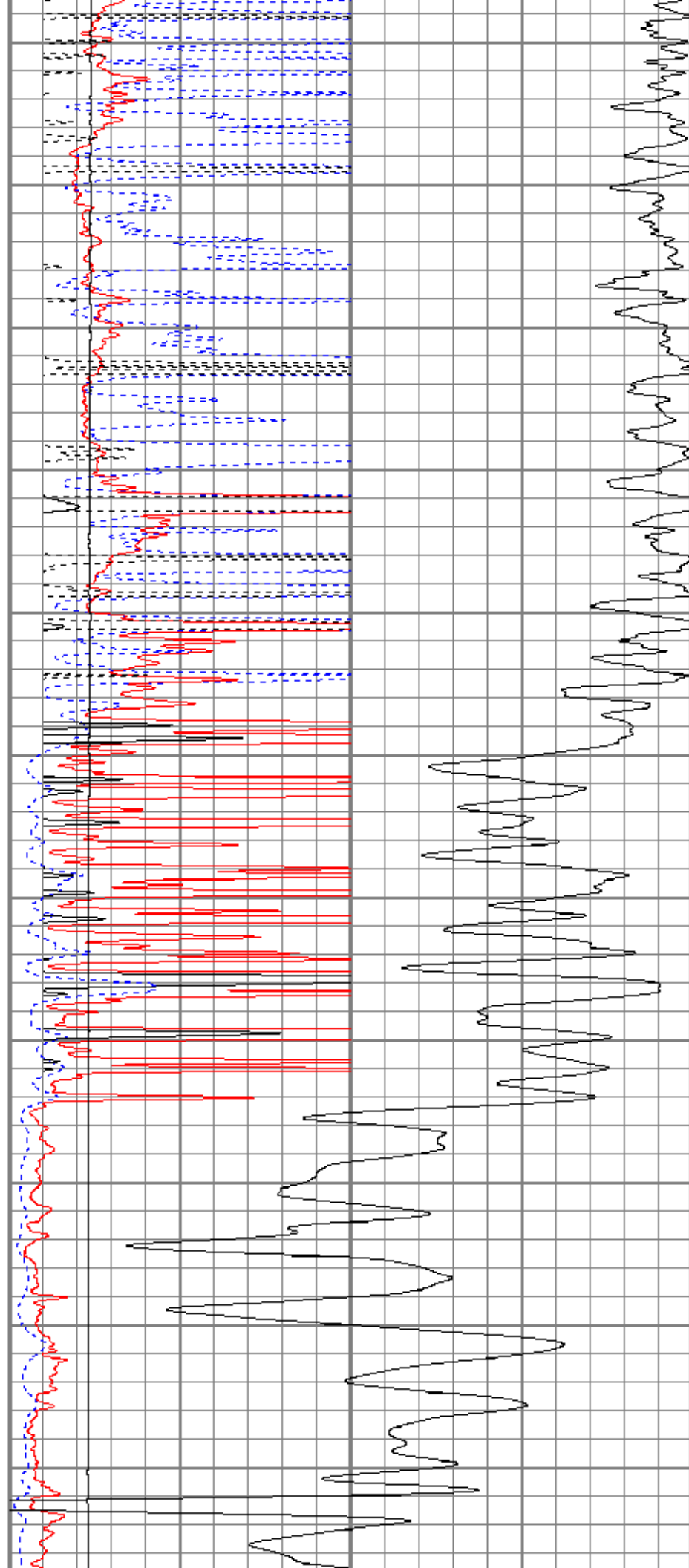
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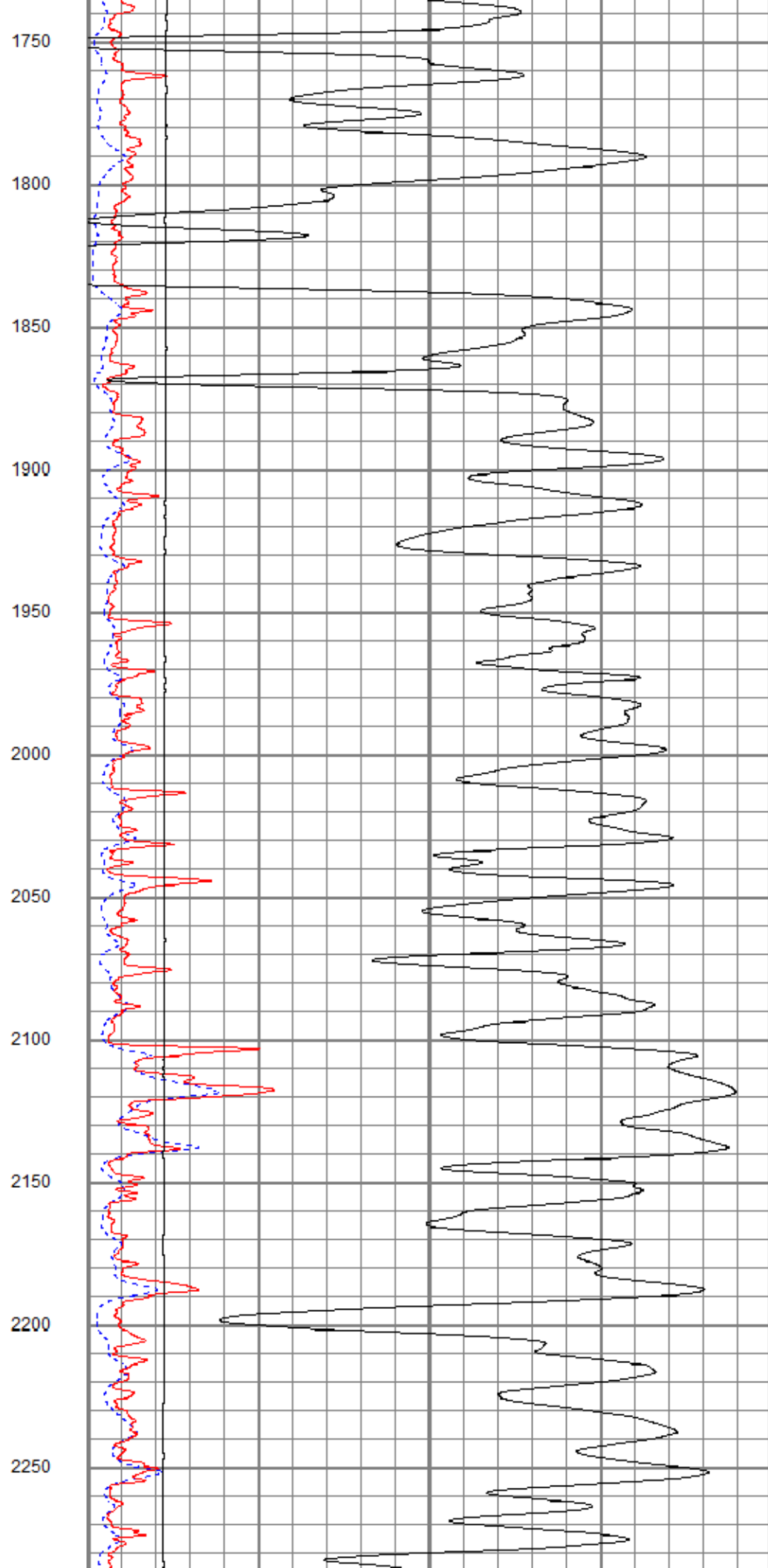
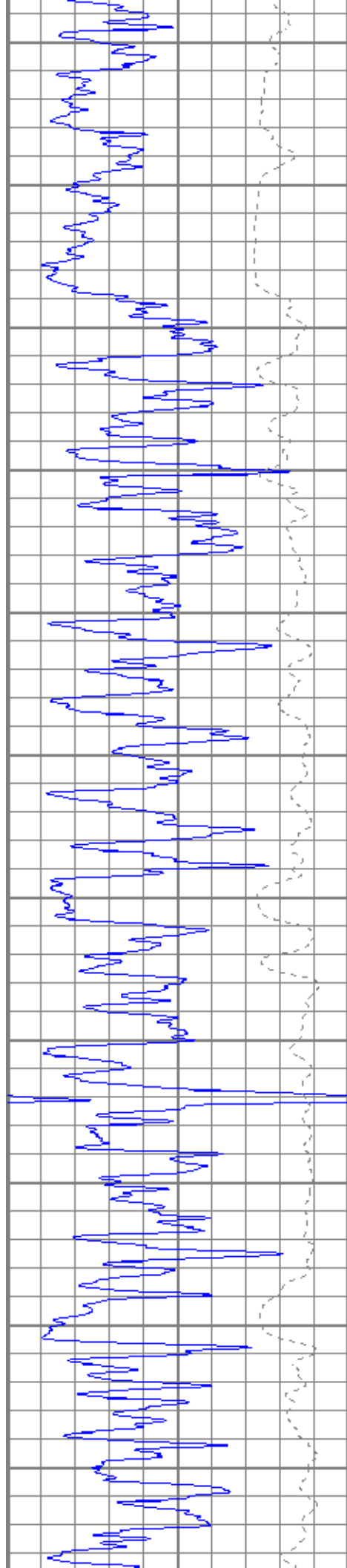
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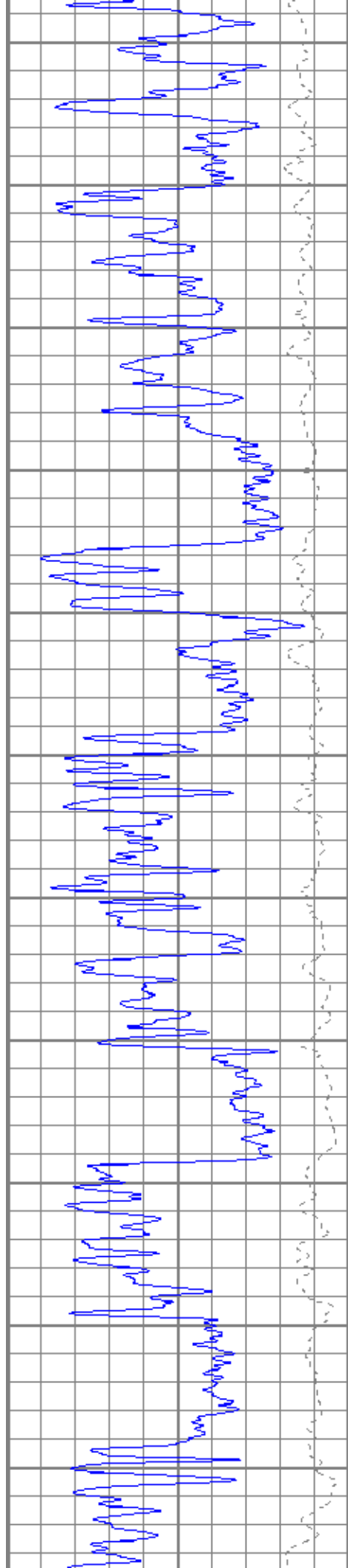
1600

1650

1700







2300

2350

2400

2450

2500

2550

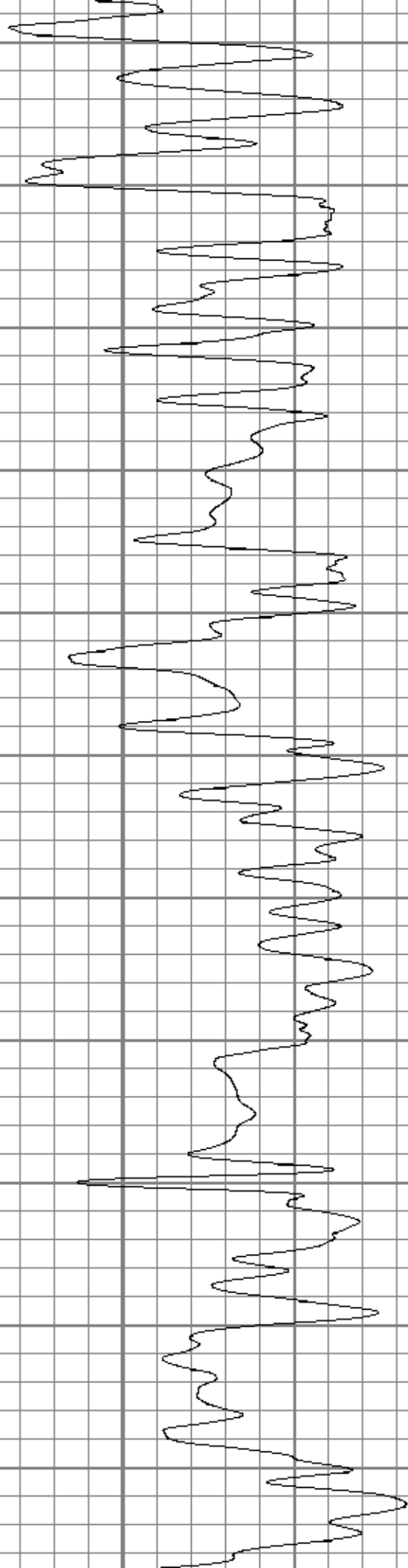
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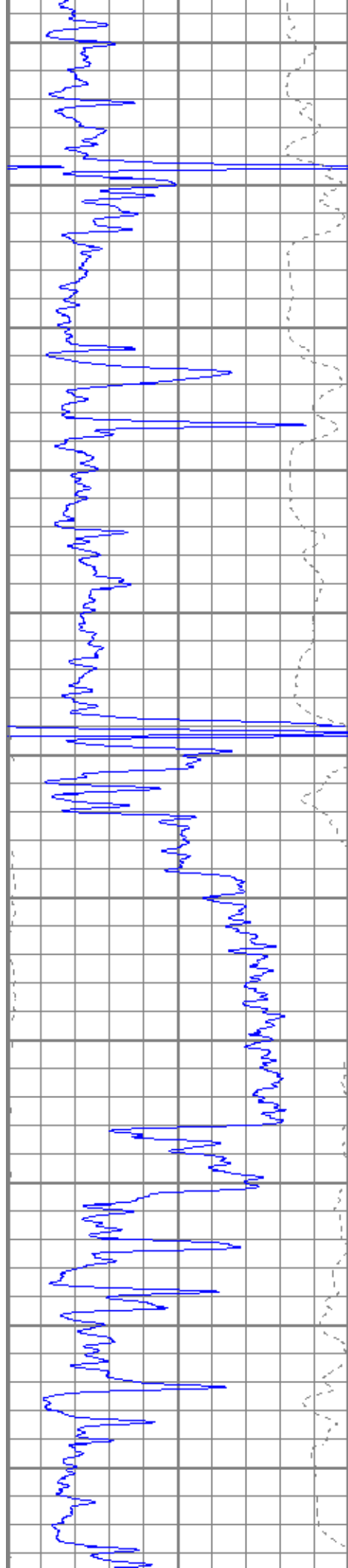
2650

2700

2750

2800





2850

2900

2950

3000

3050

3100

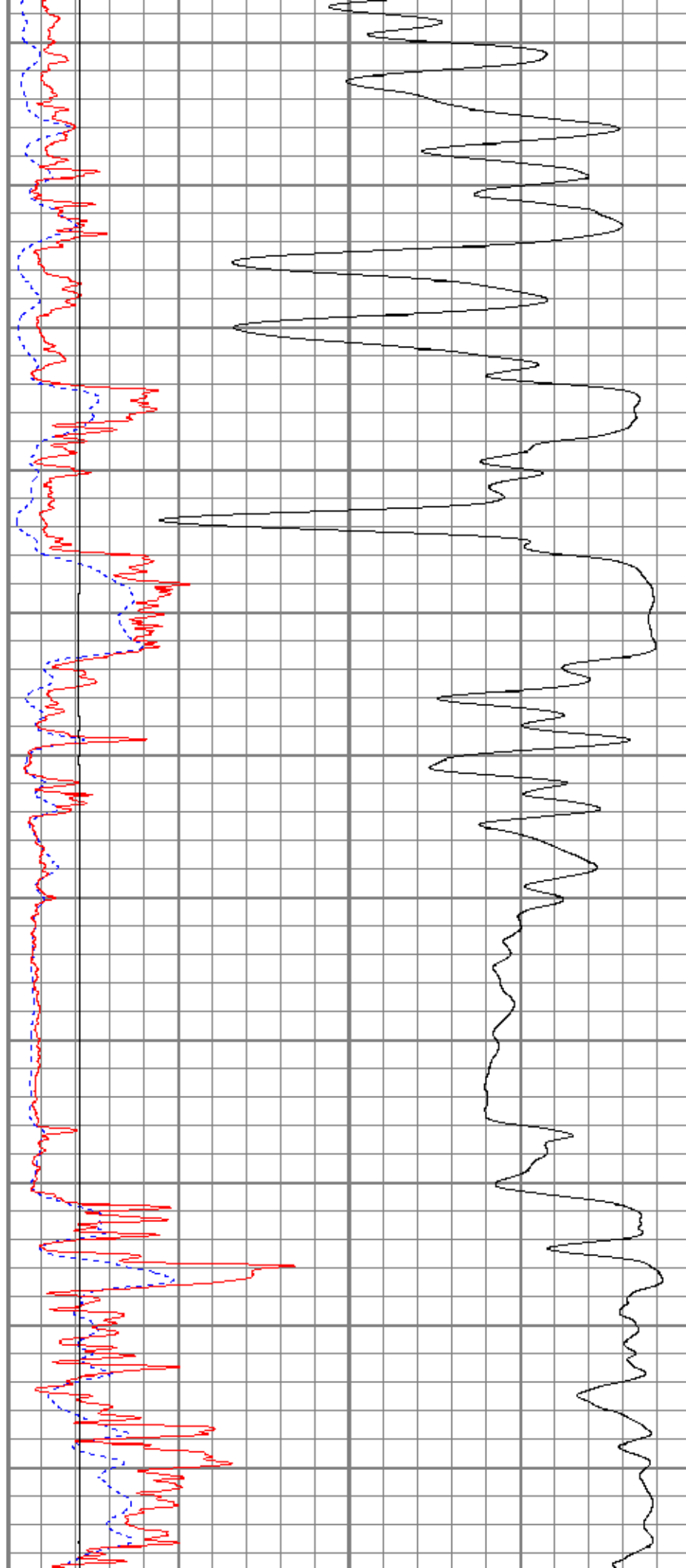
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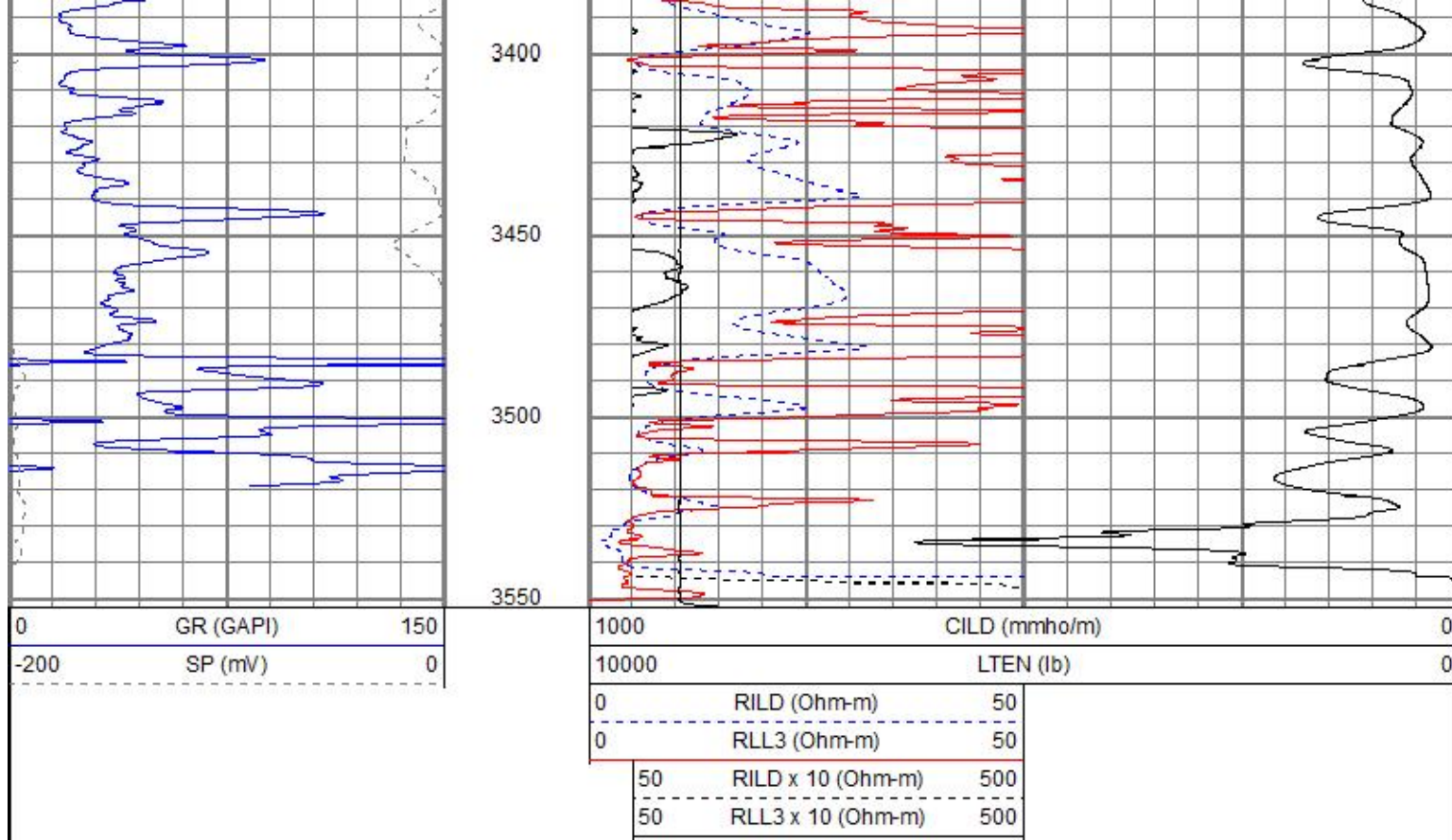
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3250

3300

3350

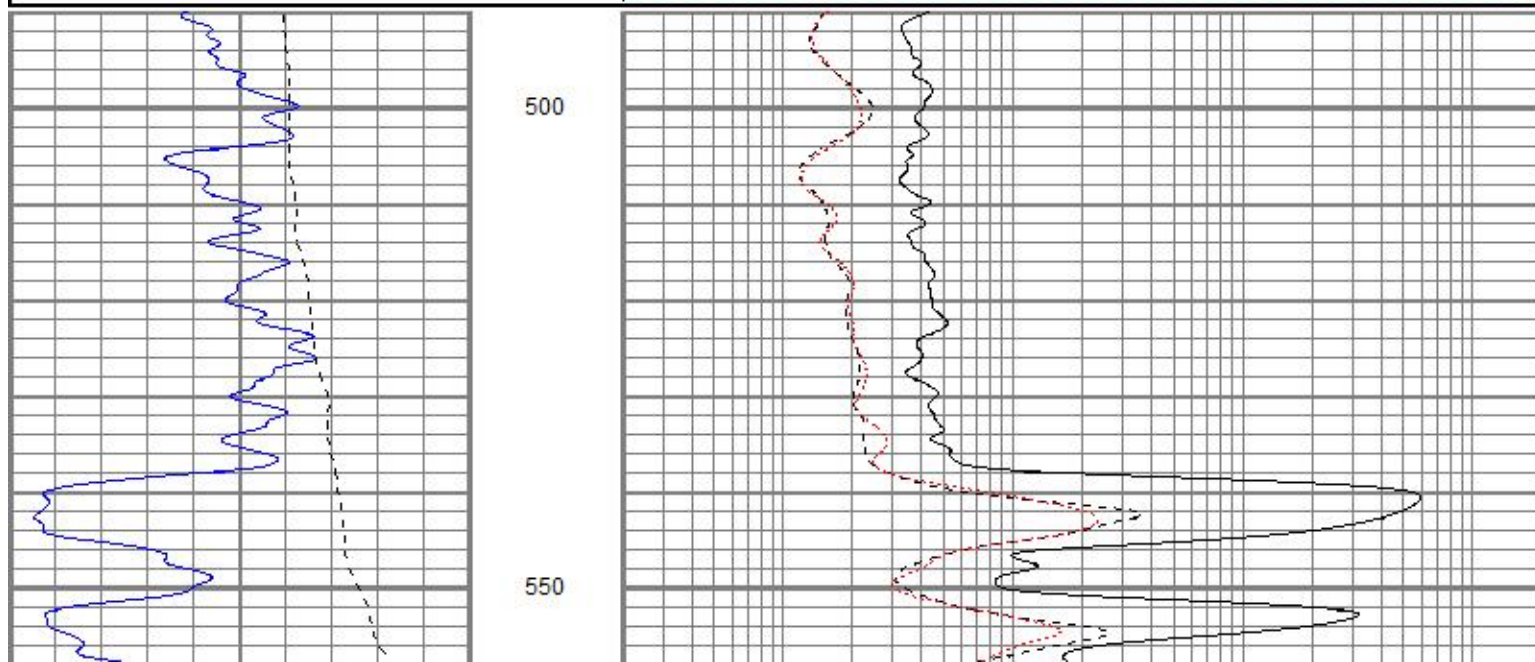




Main Pass

Database File: loallen#15oh.db
 Dataset Pathname: pass2dil
 Presentation Format: kdil
 Dataset Creation: Thu Nov 17 09:09:41 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





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

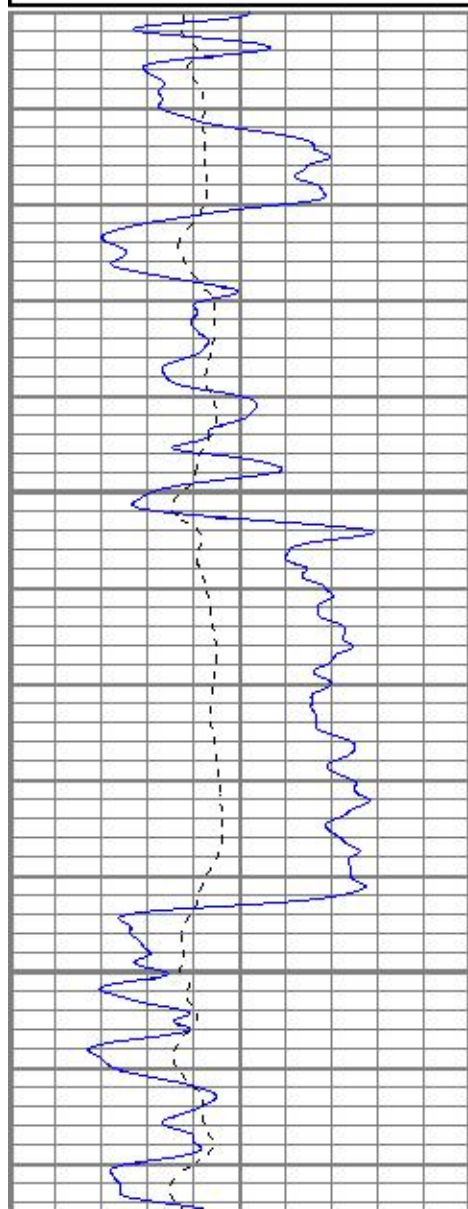


Main Pass

Database File loallen#15oh.db
 Dataset Pathname pass2dil
 Presentation Format kdil
 Dataset Creation Thu Nov 17 09:09:41 2016
 Charted by Depth in Feet scaled 1:240

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

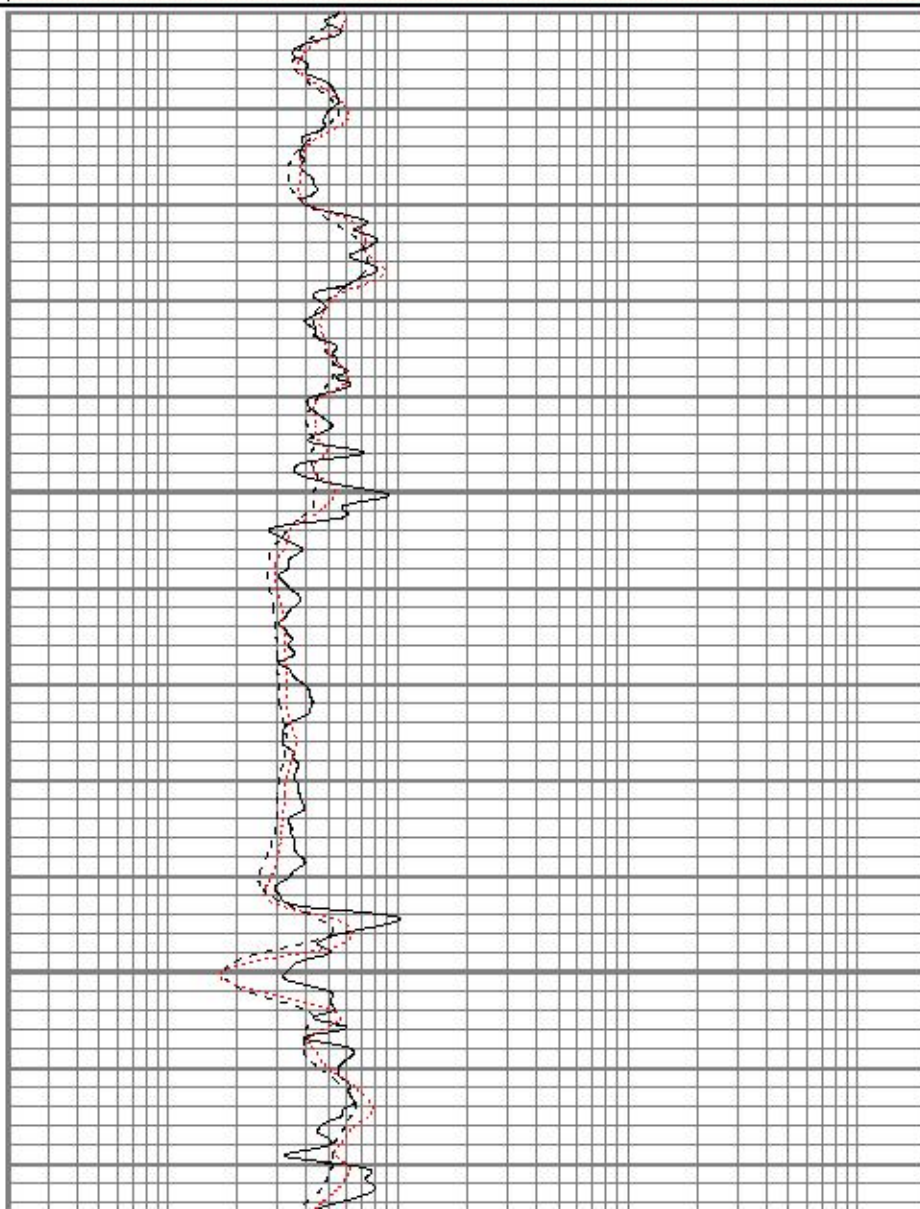
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0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

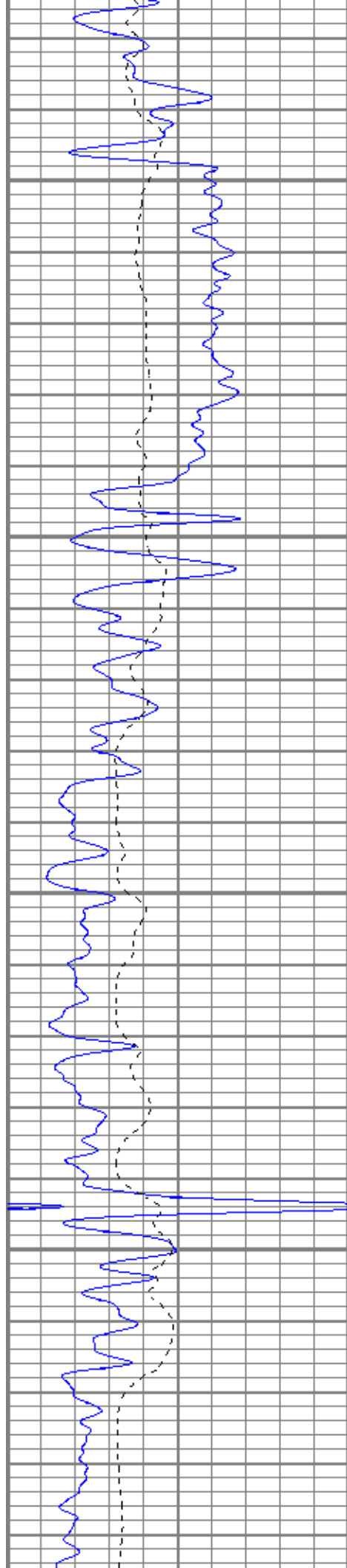


2000

2650

2700



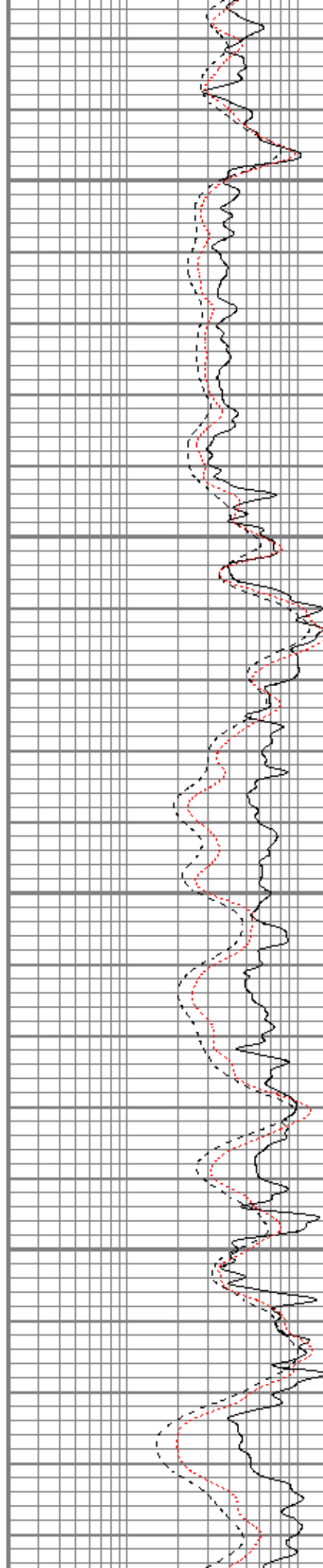


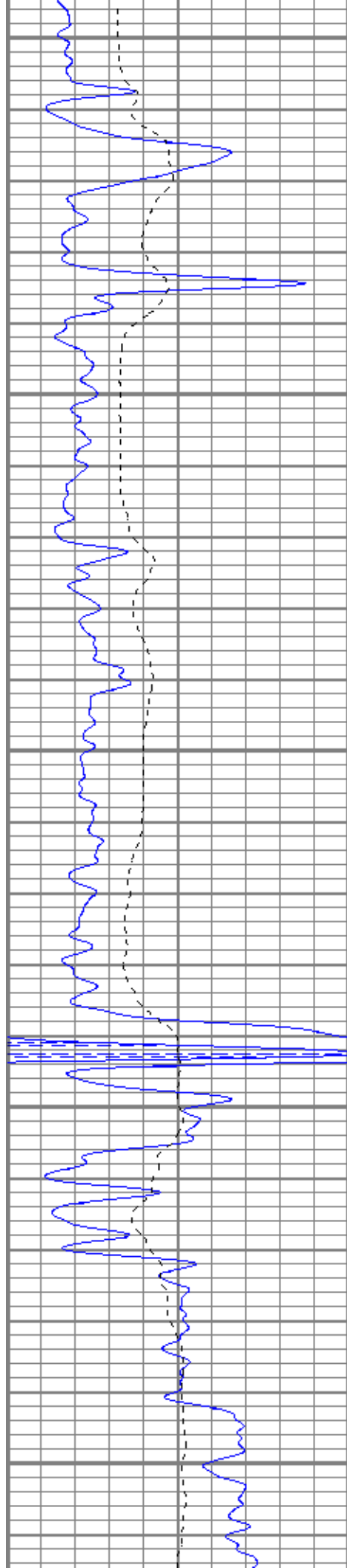
2750

2800

2850

2900





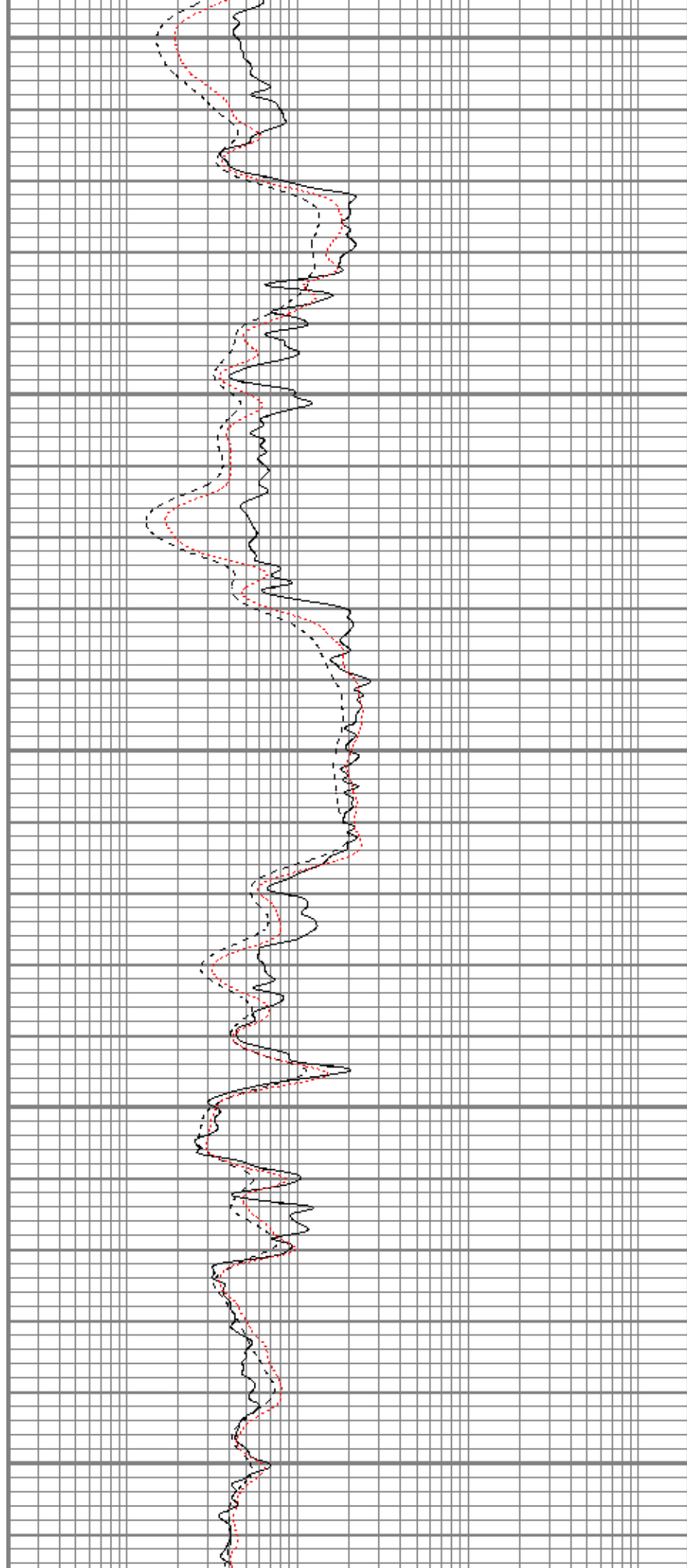
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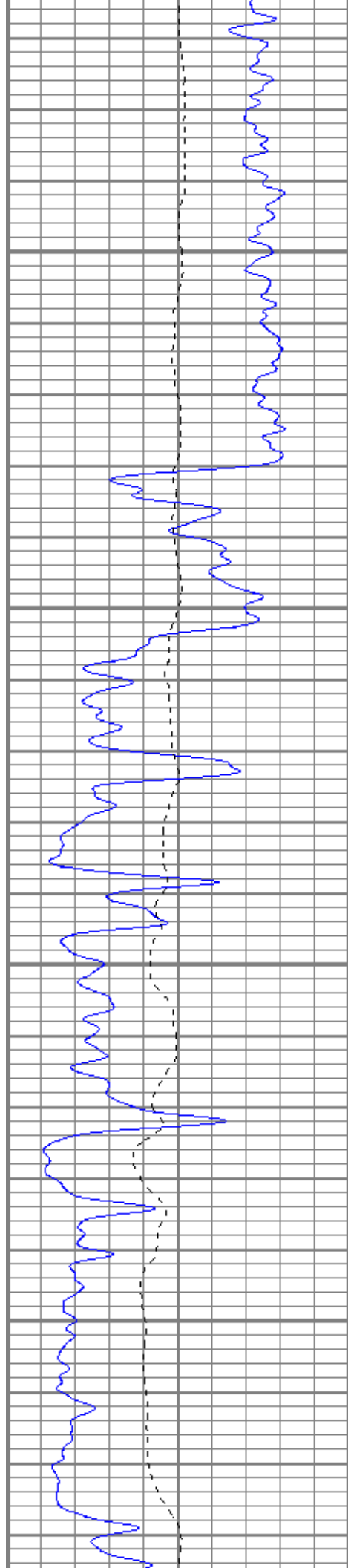
3000

3050

3100

3150



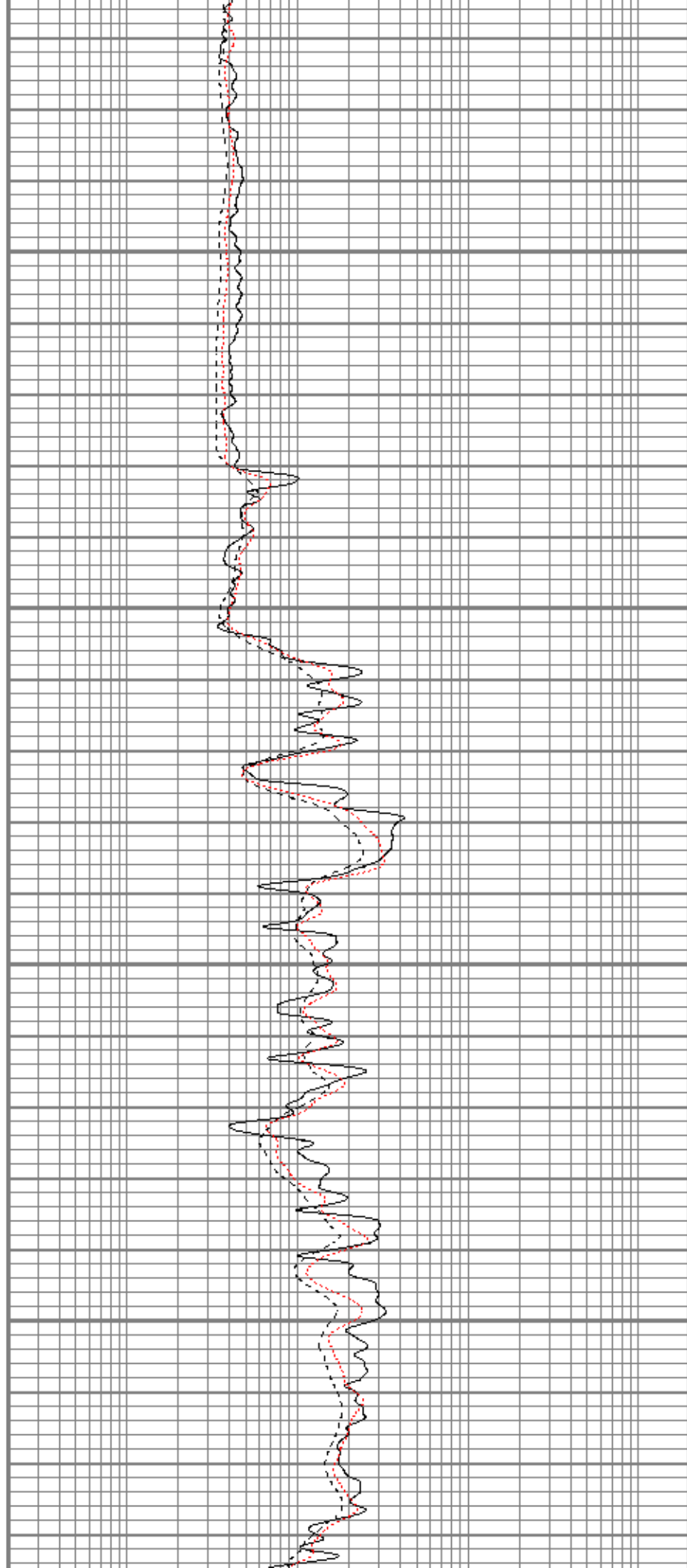


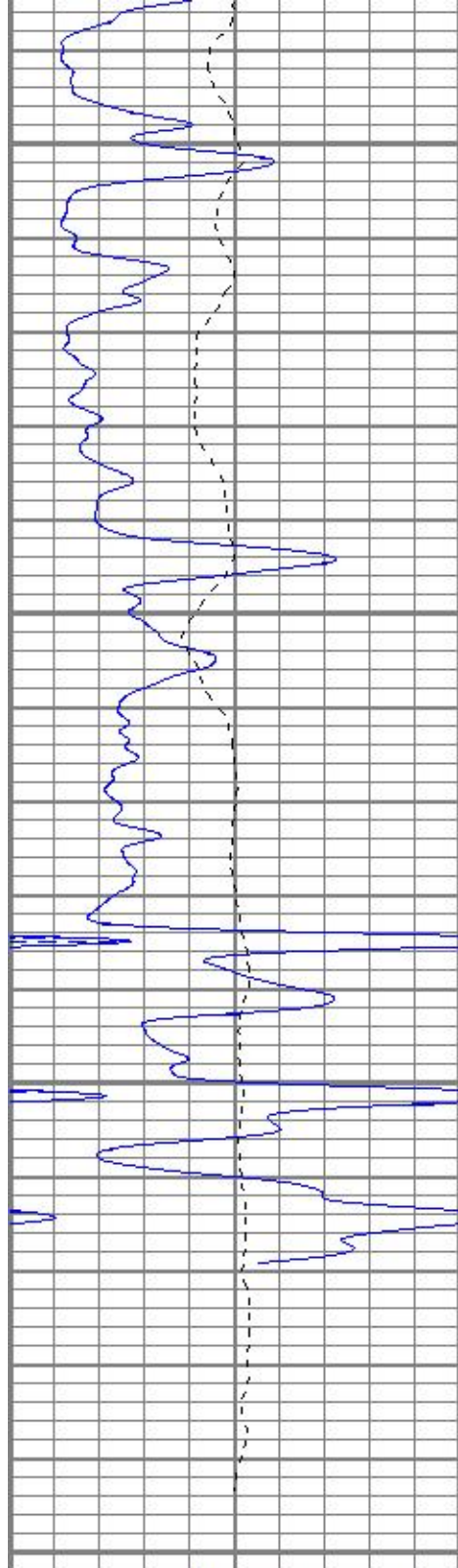
3200

3250

3300

3350





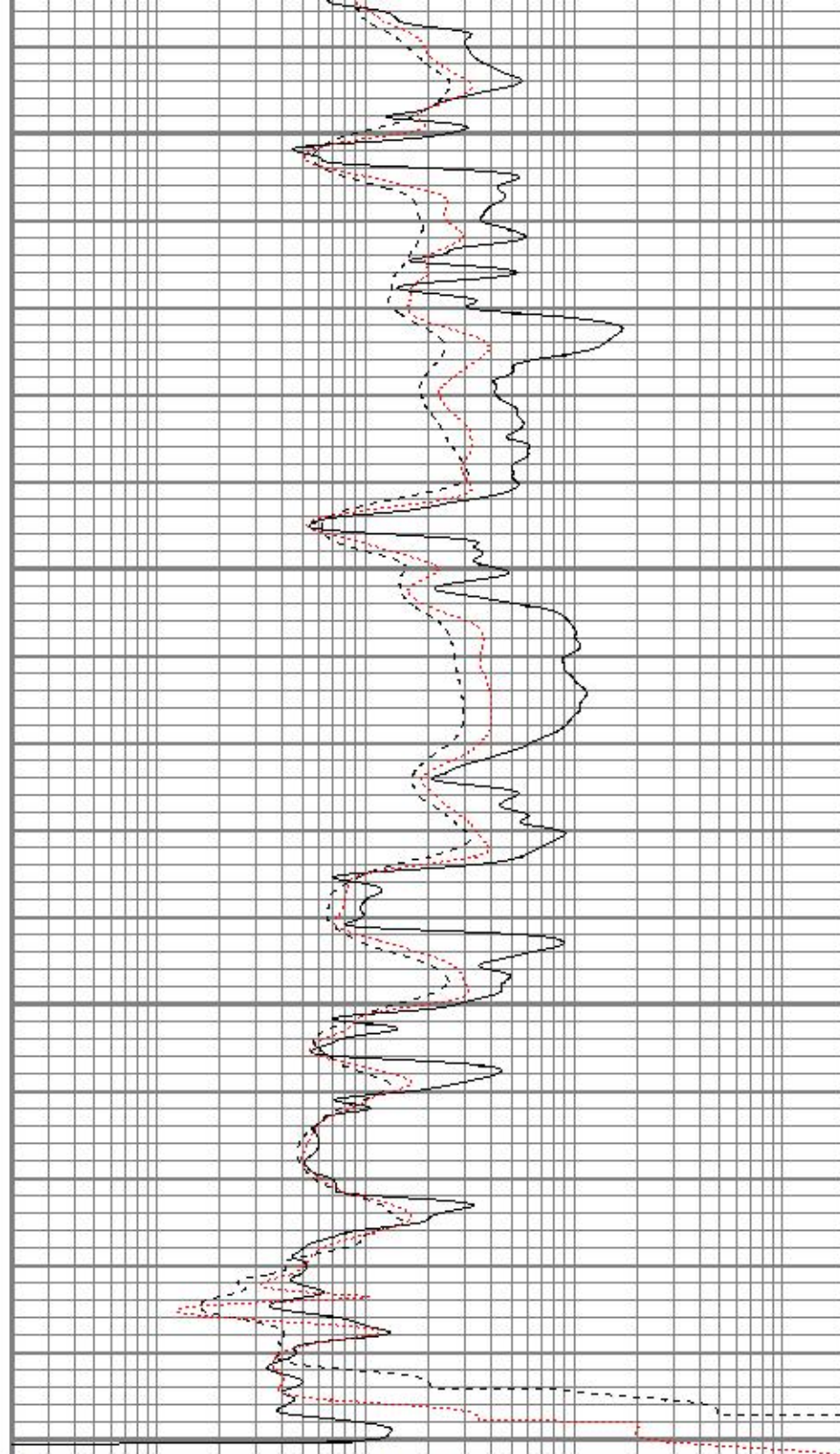
3400

3450

3500

3550

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



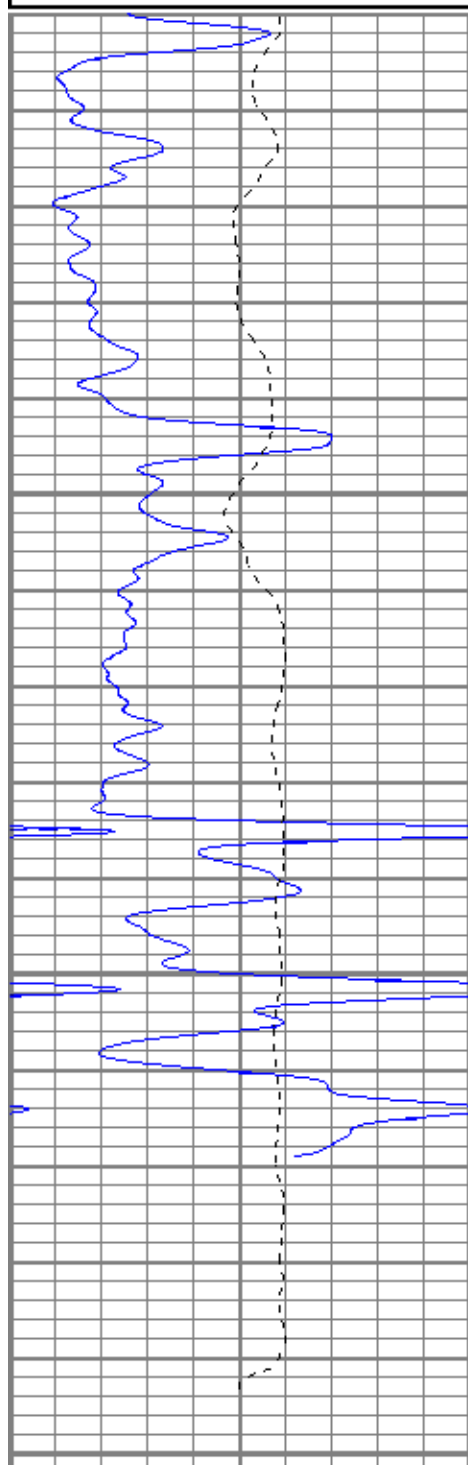
0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



Repeat Pass

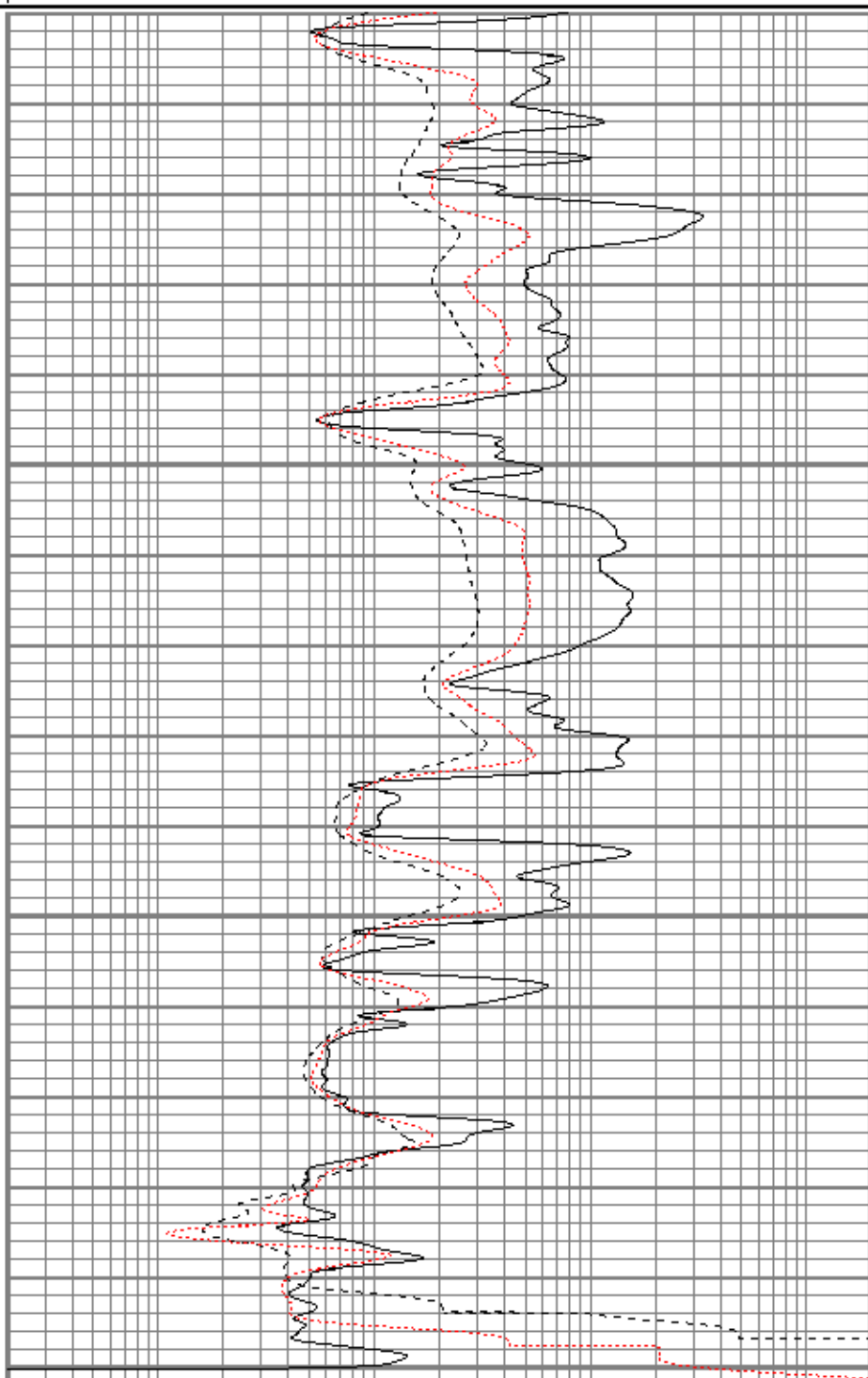
Database File loallen#15oh.db
 Dataset Pathname pass1
 Presentation Format kdil
 Dataset Creation Thu Nov 17 08:07:23 2016

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



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



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

Calibration Report

Database File loallen#15oh.db
 Dataset Pathname pass1
 Dataset Creation Thu Nov 17 08:07:23 2016

Dual Induction Calibration Report

Serial-Model:
 Surface Cal Performed:

1989-ADM
 Mon Jul 11 21:35:42 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

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	8.10	in	5979.71		
Large Ring	14.00	in	9974.72		

Before Survey Verification

Target	Measured
g/cc	g/cc
g/cc	g/cc
g/cc	g/cc

After Survey Verification

Target	Measured
g/cc	g/cc
g/cc	g/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					
SP	10.60		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					
Dataset: loallen#15oh.db: field/well/run1/pass1 Total length: 38.73 ft Total weight: 631.00 lb O.D.: 4.00 in						