



MICRO RESISTIVITY LOG

Company	American Land And Energy LLC.			
Well	Brungardt #1			
Field	N/A			
County	Ellis	State	Kansas	
Location:	API # : 15 051 26588		Other Services DIL CDNL	
330' FSL & 900' FEL				
Permanent Datum	SEC 7	TWP 15S	RGE 16W	Elevation K.B. 1916' D.F. 1915' G.L. 1910'
Log Measured From	KB 6' AGL			
Drilling Measured From	KB			
Date	8-27-13			
Run Number	Two			
Depth Driller	3600'			
Depth Logger	3600'			
Bottom Logged Interval	3598'			
Top Log Interval	2700'			
Casing Driller	8 5/8" @ 1060'			
Casing Logger	1060'			
Bit Size	7 7/8"			
Type Fluid in Hole	Chemical			
Density / Viscosity	9.3/42			
pH / Fluid Loss	8.0/10.0			
Source of Sample	Pit			
Rm @ Meas. Temp	.5 @ 72degf			
Rmf @ Meas. Temp	.38 @ 72degf			
Rmc @ Meas. Temp	.6 @ 72degf			
Source of Rmf / Rmc	Calculated			
Rm @ BHT	.32 @ 112degf			
Time Circulation Stopped	10:00 p.m.			
Time Logger on Bottom	2:15 a.m.			
Maximum Recorded Temperature	112degf			
Equipment Number	T045			
Location	Hays, KS.			
Recorded By	Gus Pfannenstiel			
Witnessed By	Mr. Rod Andersen			

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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

6 miles S of Victoria 1/2 E, N into.

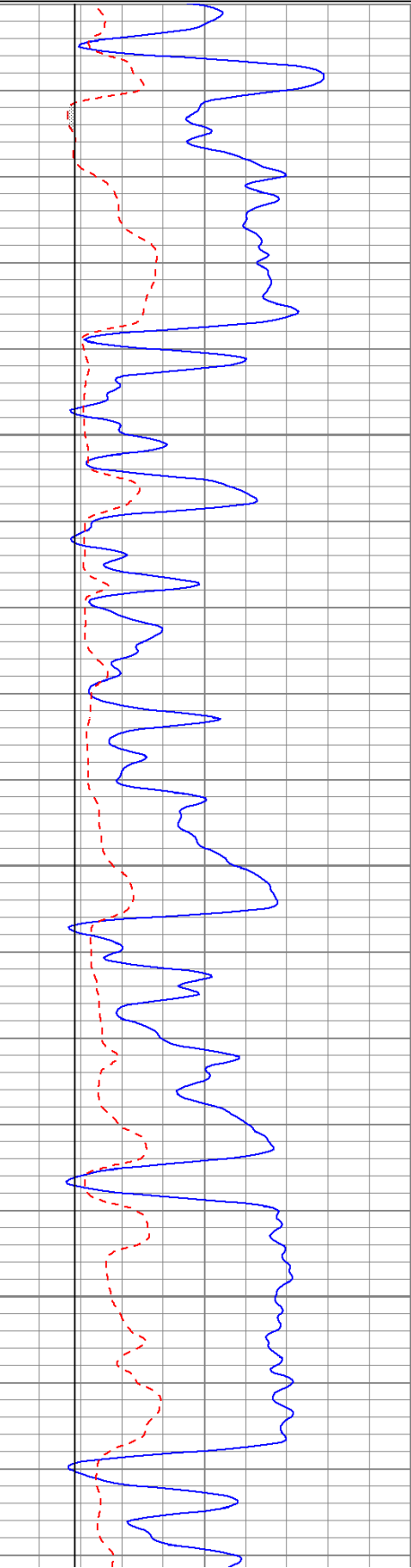


Main Pass

Database File: albrungardt#1oh.db
Dataset Pathname: pass5.1
Presentation Format: kml
Dataset Creation: Wed Aug 28 13:02:07 2013 by Calc Open-Cased 100827
Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

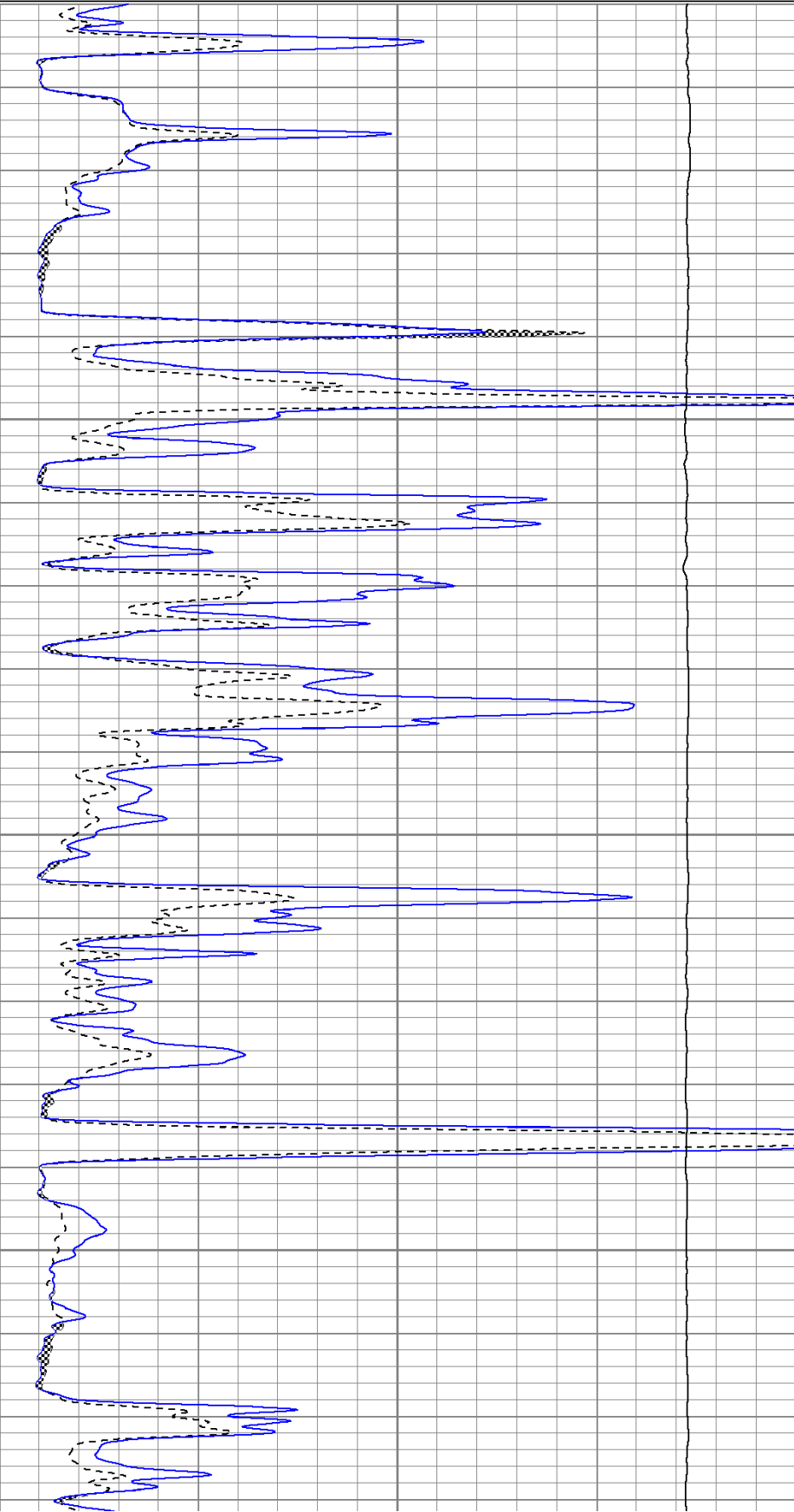


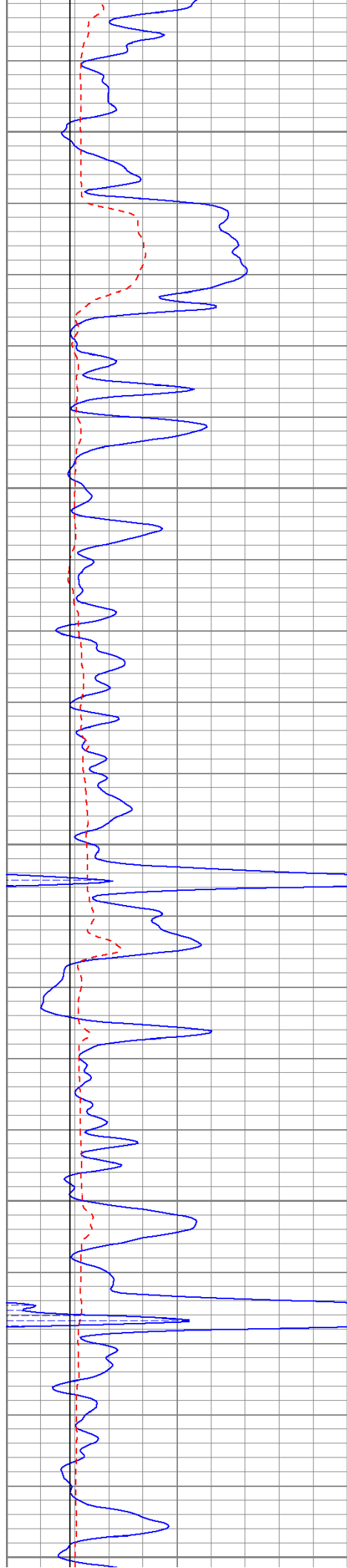
2700

2750

2800

2850





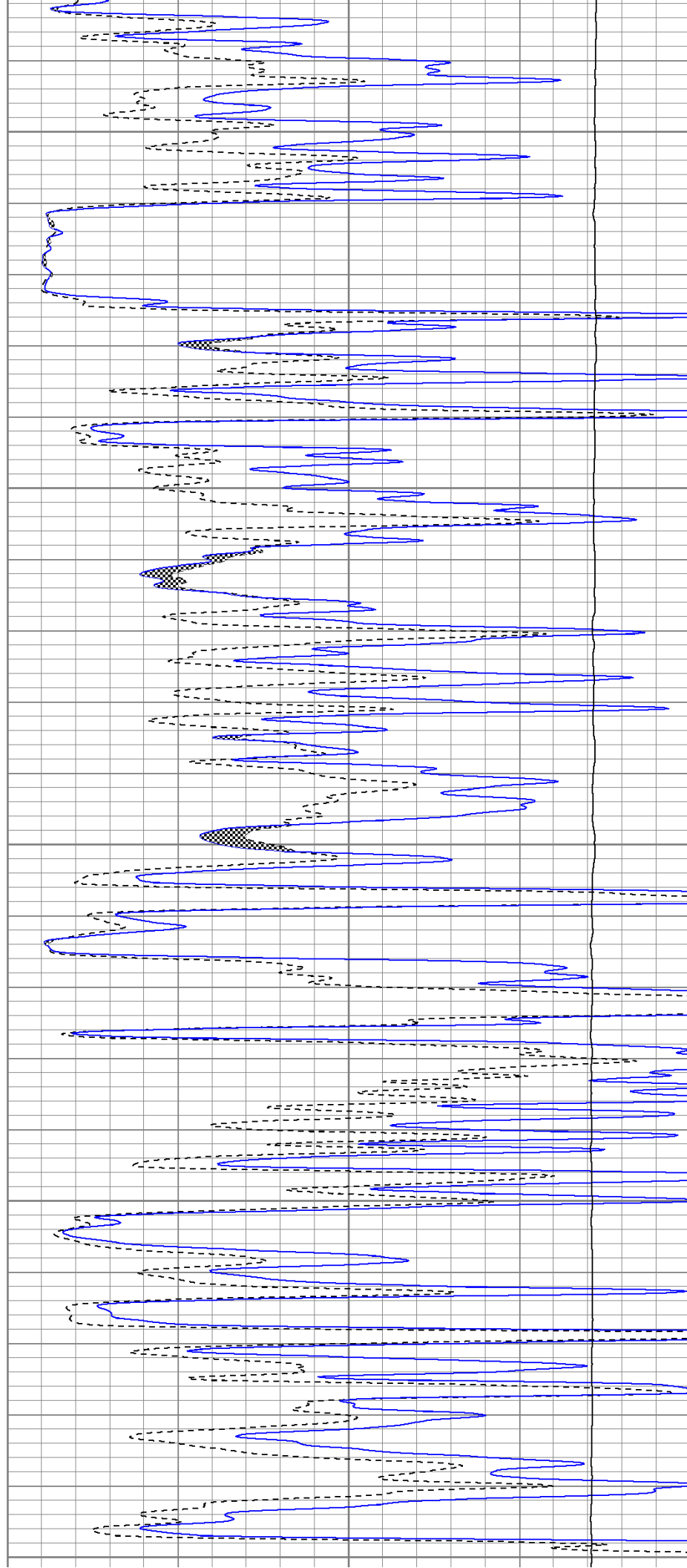
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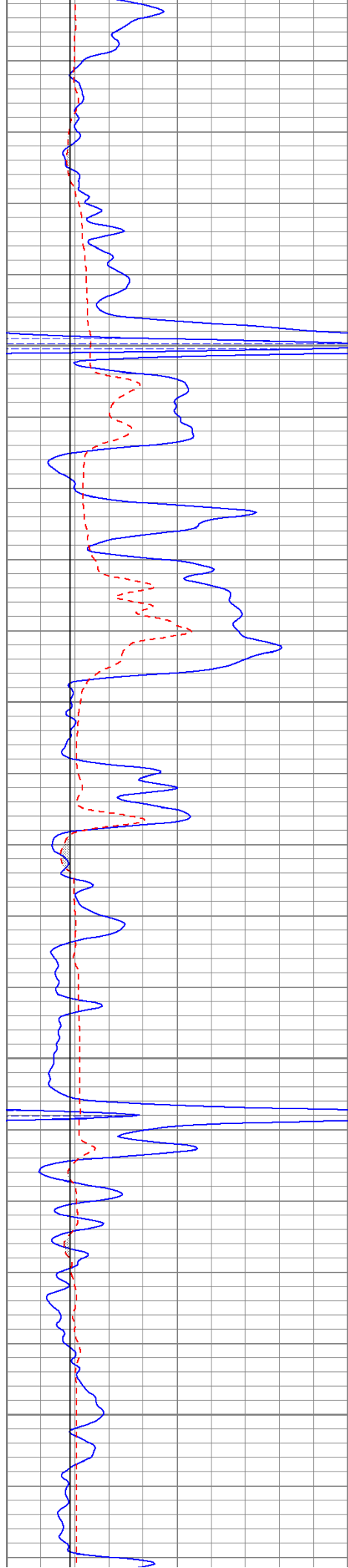
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3000

3050

3100



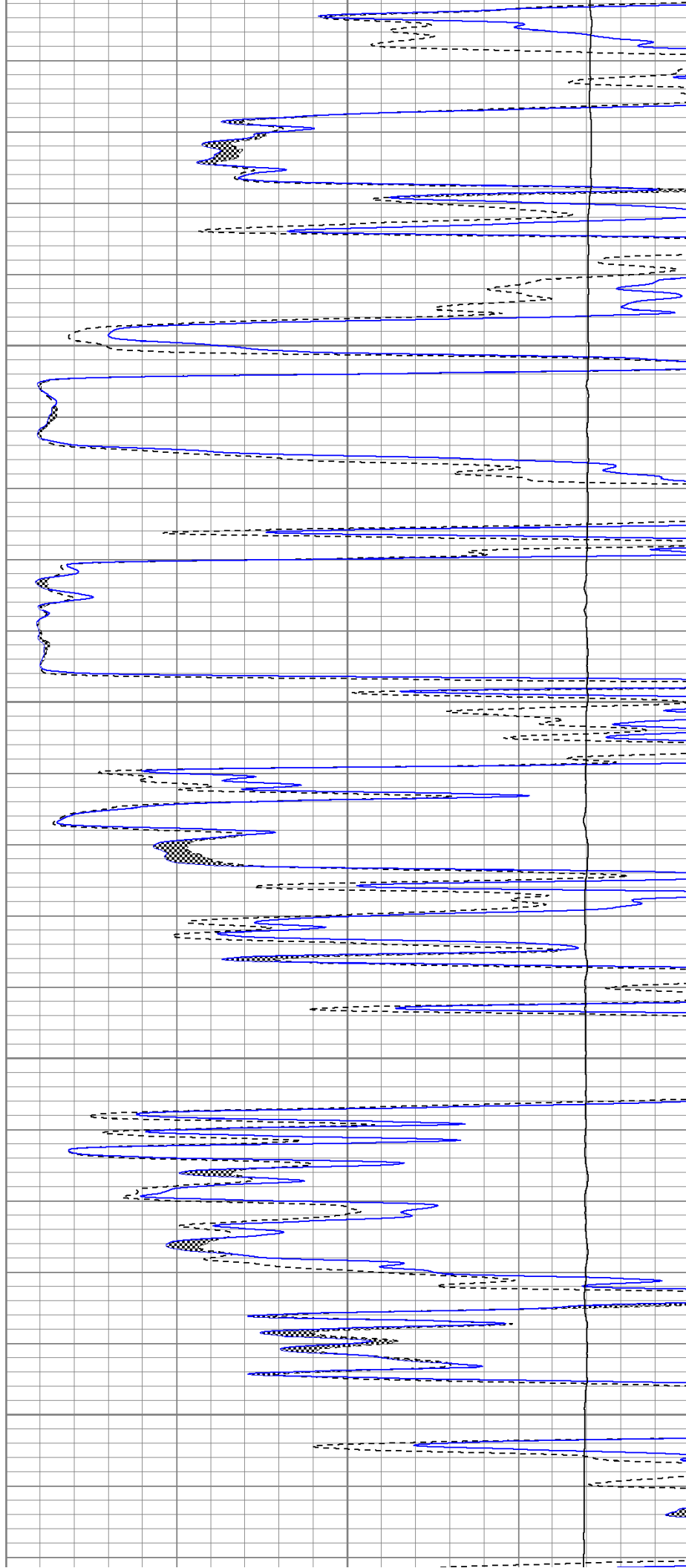


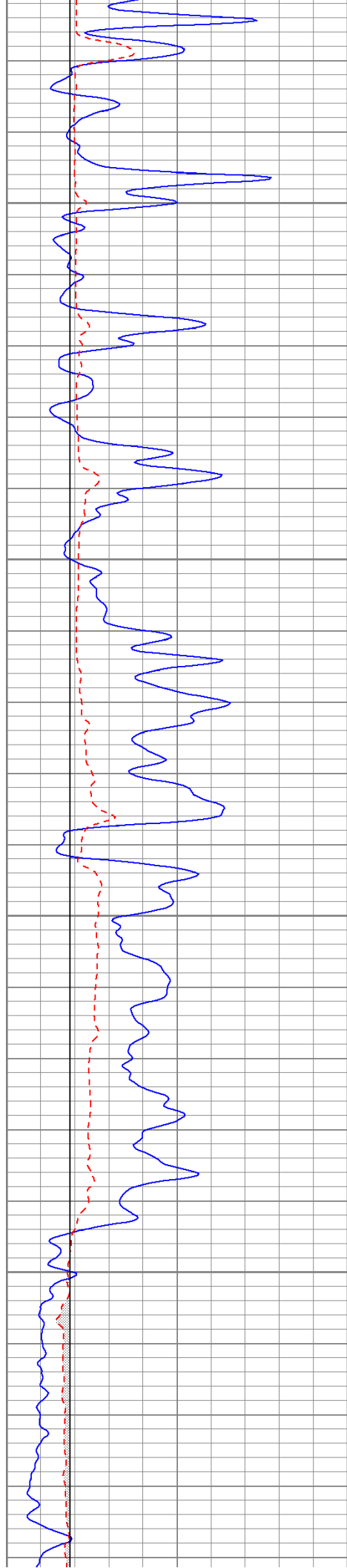
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3200

3250

3300



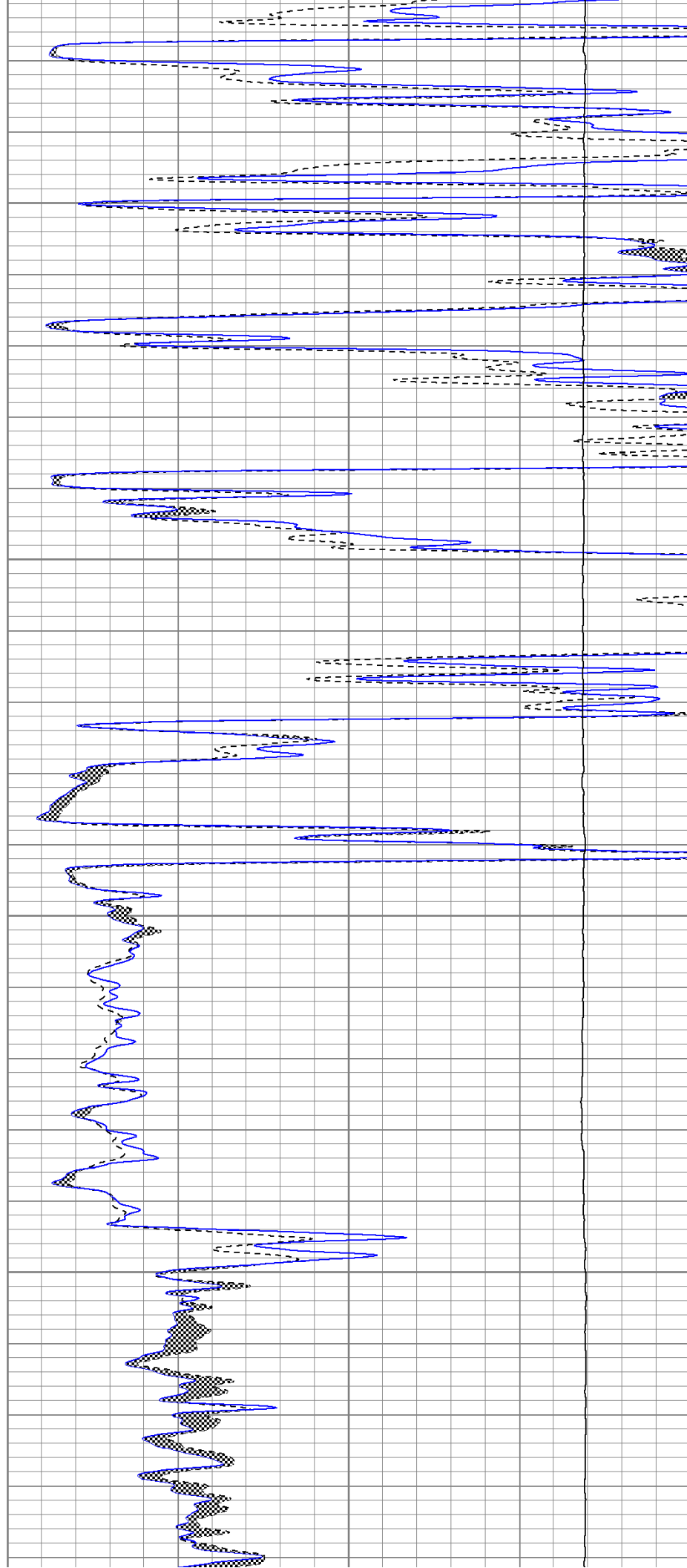


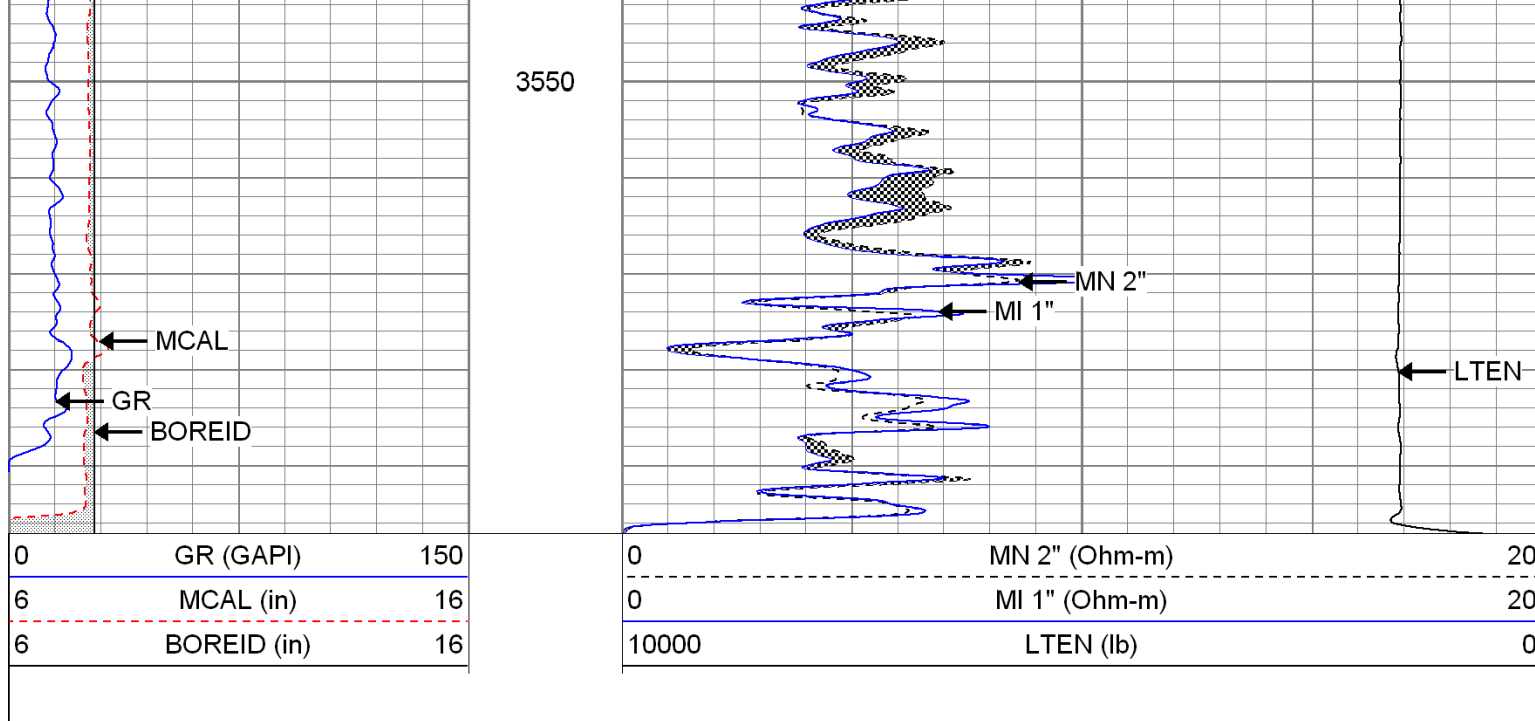
3350

3400

3450

3500

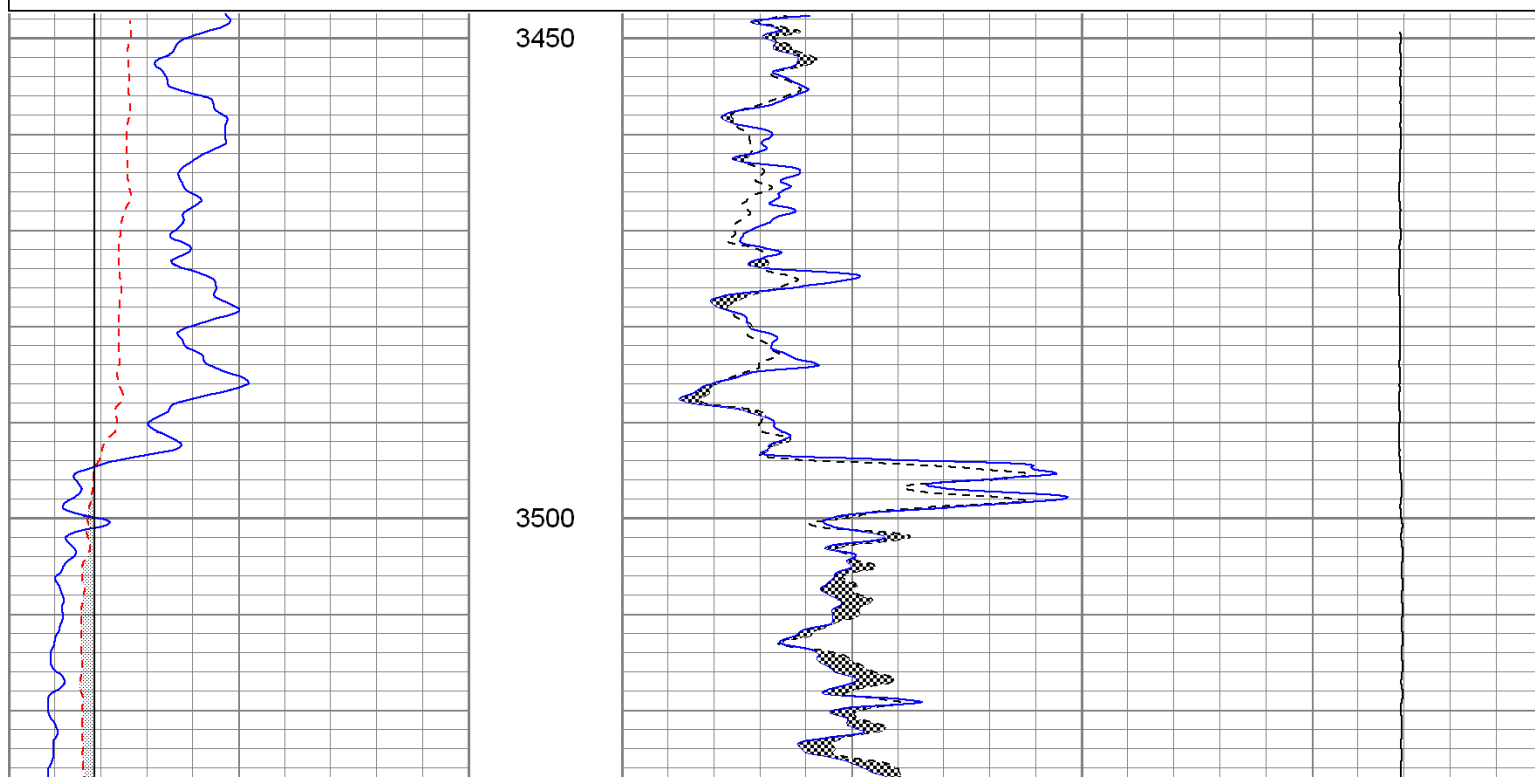


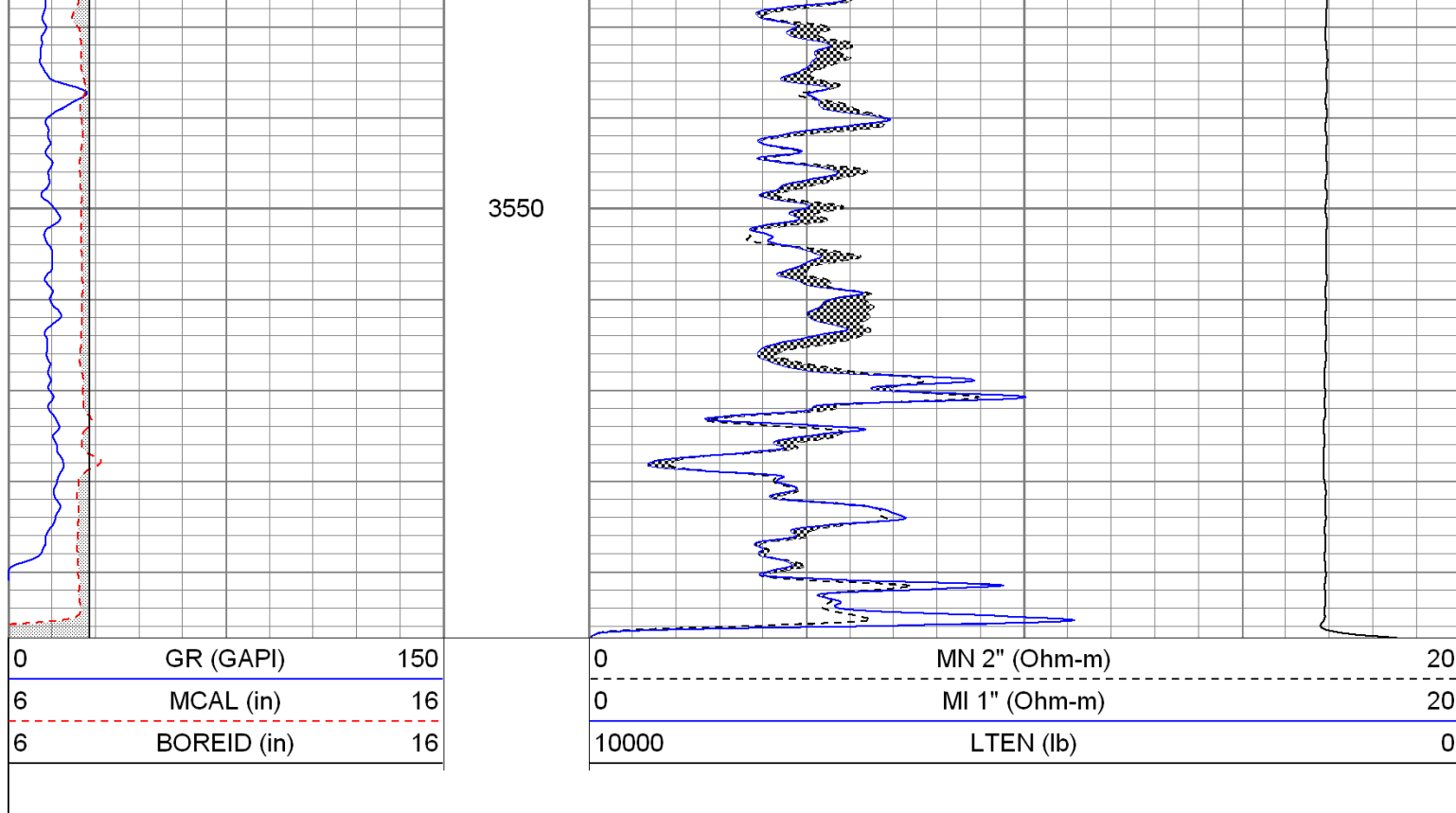


Repeat Pass

Database File: albrungardt#1oh.db
 Dataset Pathname: pass4.1
 Presentation Format: kml
 Dataset Creation: Wed Aug 28 13:03:12 2013 by Calc Open-Cased 100827
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150		0	MN 2" (Ohm-m)	20
6	MCAL (in)	16		0	MI 1" (Ohm-m)	20
6	BOREID (in)	16		10000	LTEN (lb)	0





Calibration Report

Database File: albrungardt#1oh.db
 Dataset Pathname: pass4.1
 Dataset Creation: Wed Aug 28 13:03:12 2013 by Calc Open-Cased 100827

Microlog Calibration Report

Serial-Model: 1600-Pengo
 Performed: Sun Apr 28 13:25:46 2013

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	-0.0063	0.5892	V	0.0000	10.0000	Ohm-m	16.7921	0.1063
Inverse	-0.0042	0.7664	V	0.0000	10.0000	Ohm-m	12.9769	0.0547
Caliper	1.1428	2.4810	V	8.1500	14.0000	in	4.3714	3.1544

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Mon Jan 07 17:00:47 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.2300 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
GR	8.13		GR-OH (2001) 2001	3.56	3.25	40.00

MN	1.30			ML-Pengo (1600)	6.96	3.50	100.00
MI	1.30						
MCAL	1.30						
Dataset: albrungard#1oh.db: field/well/run1/pass4.1 Total Length: 10.53 ft Total Weight: 140.00 lb O.D. 3.50 in							