MICRO RESISTIVITY LOG

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt State KS

Location: API # : 15 151 22456

1700' FNL & 1700' FEL

SEC 7 TWP 26S RGE 13W

Other Services
DIL
CDNL

Elevation
K.B. 1970'
D.F. 1969'
G.L. 1960'

Permanent Datum Ground Level Elevation 1960'
Log Measured From KB 10' AGL
Drilling Measured From KB

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt
State KS

Date	1-12-17		
Run Number	One		
Depth Driller	4400'		
Depth Logger	4400'		
Bottom Logged Interval	4398'		
Top Log Interval	3200'		
Casing Driller	309'		
Casing Logger	309'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.3/55		
pH / Fluid Loss	9.4/12.8		
Source of Sample	Pit		
Rm @ Meas. Temp	.9@52degf		
Rmf @ Meas. Temp	.67@52degf		
Rmc @ Meas. Temp	1.1@52degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.4@116degf		
Time Circulation Stopped	3:15 p.m.		
Time Logger on Bottom	7:00 p.m.		
Maximum Recorded Temperature	116 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Eli Felts	Mr. Jeff Burk	

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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

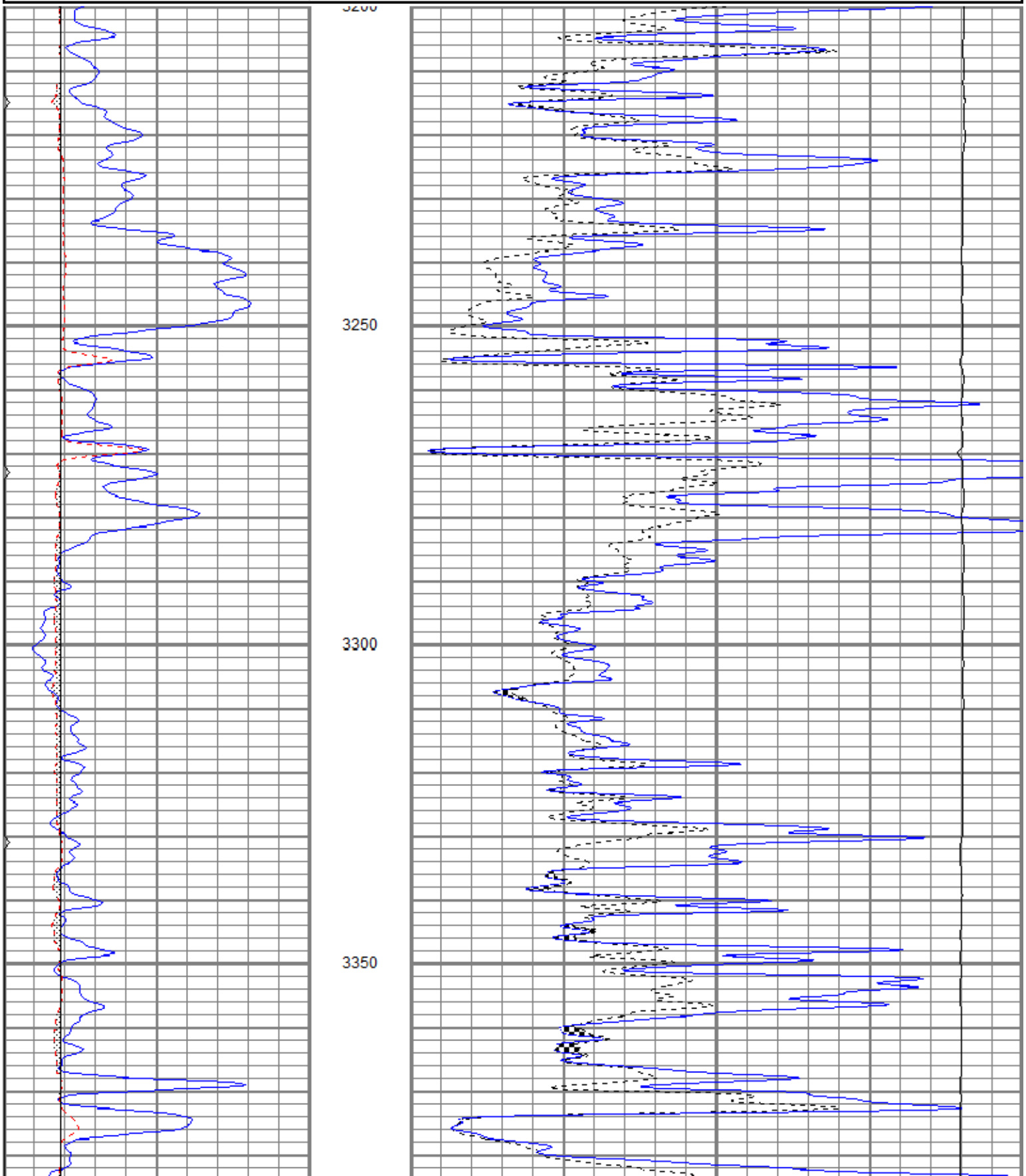
Thank you for using Gemini Wireline
785-625-1182

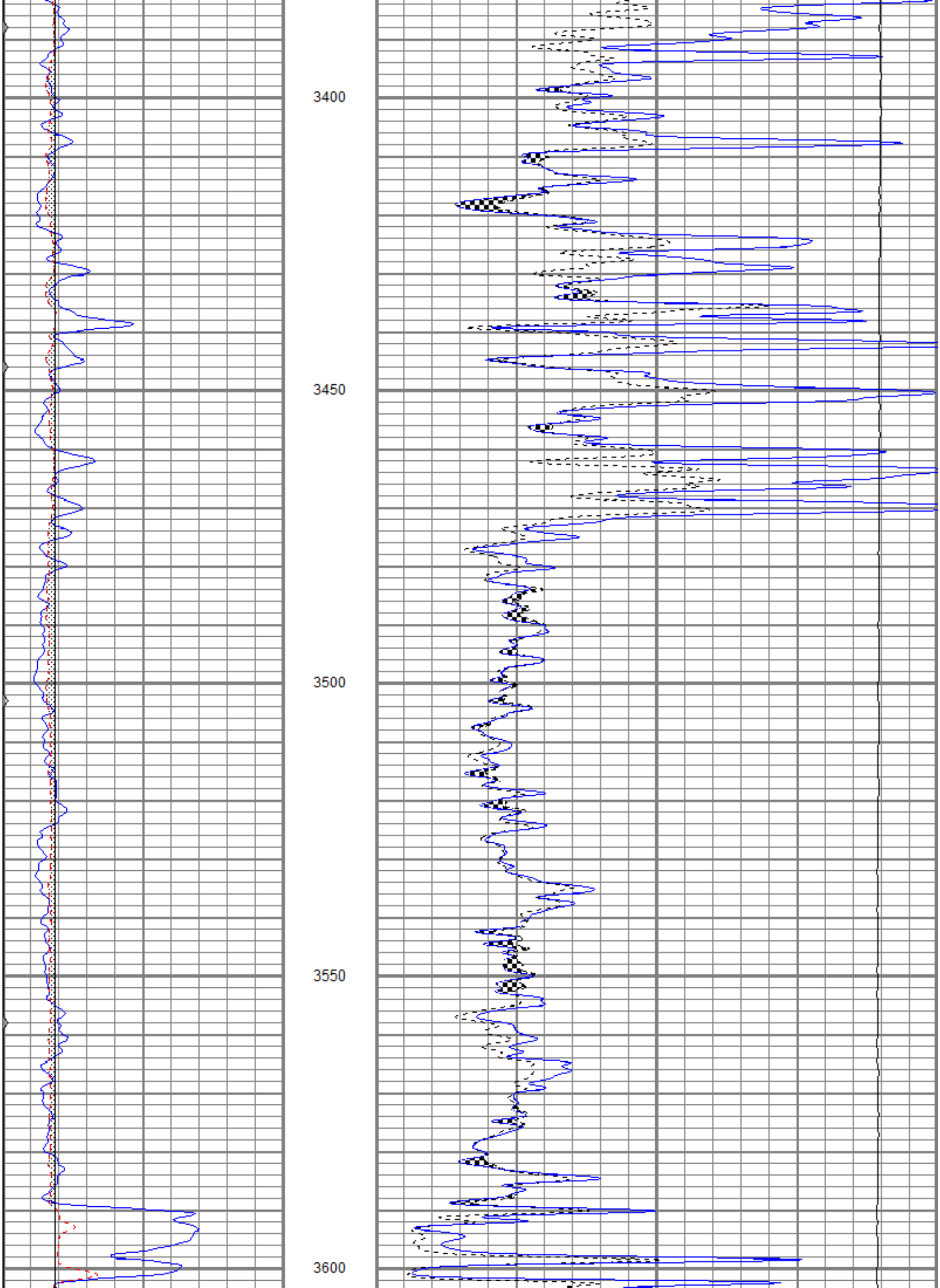
Main Pass

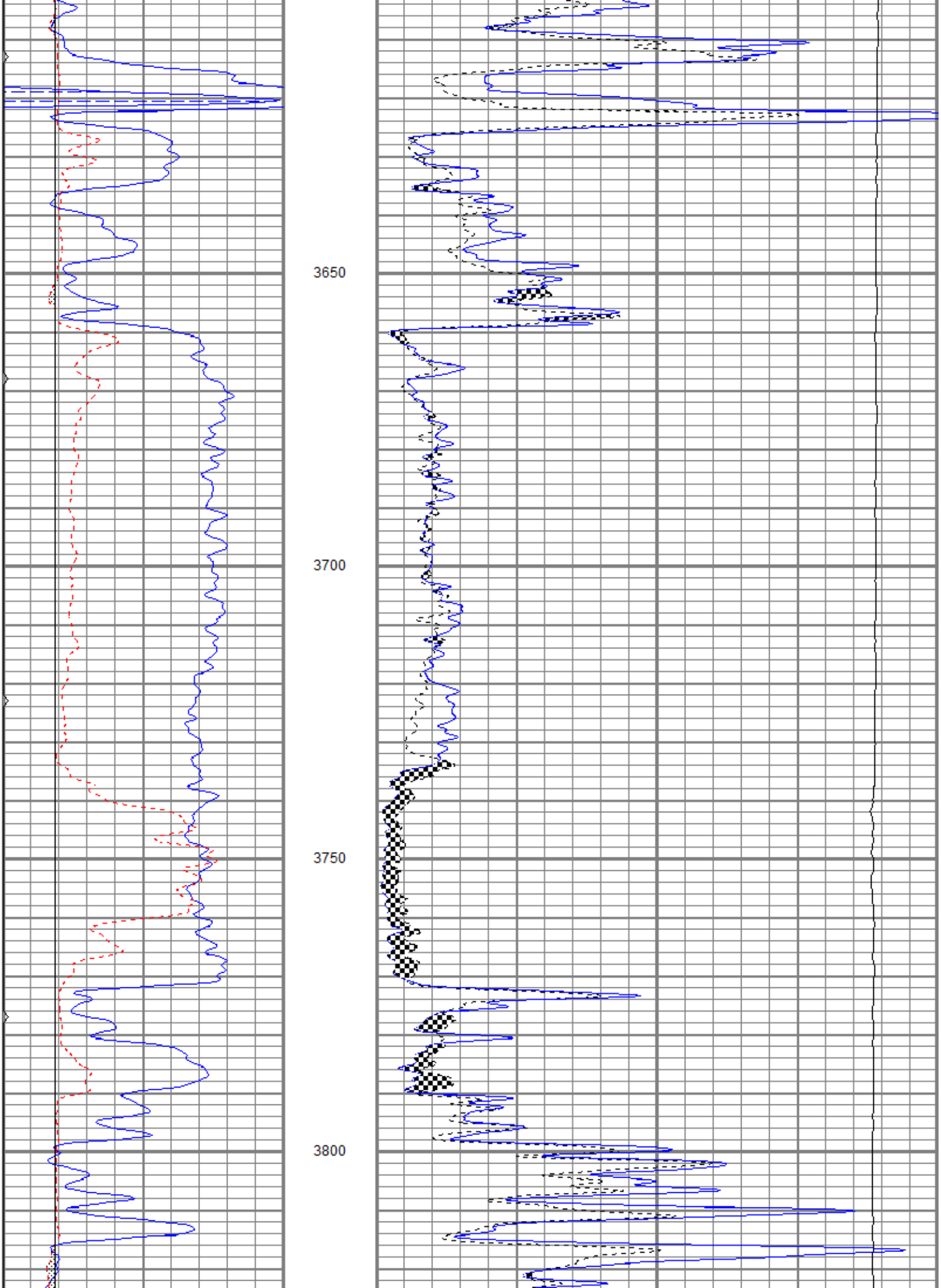
Database File	reyoung#1oh.db
Dataset Pathname	pass4.1
Presentation Format	kml
Dataset Creation	Thu Jan 12 19:59:47 2017
Charted by	Depth in Feet scaled 1:240

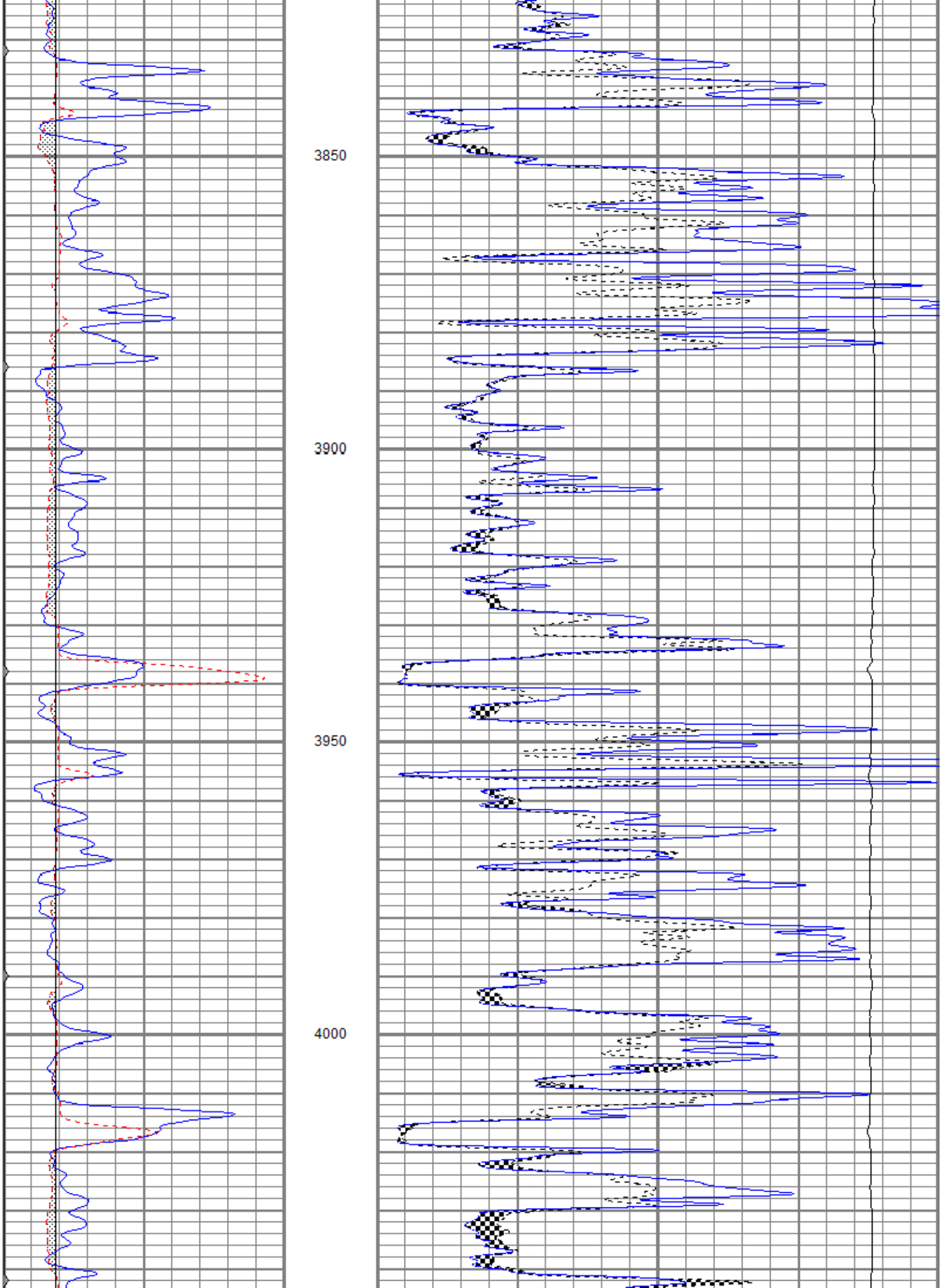
0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

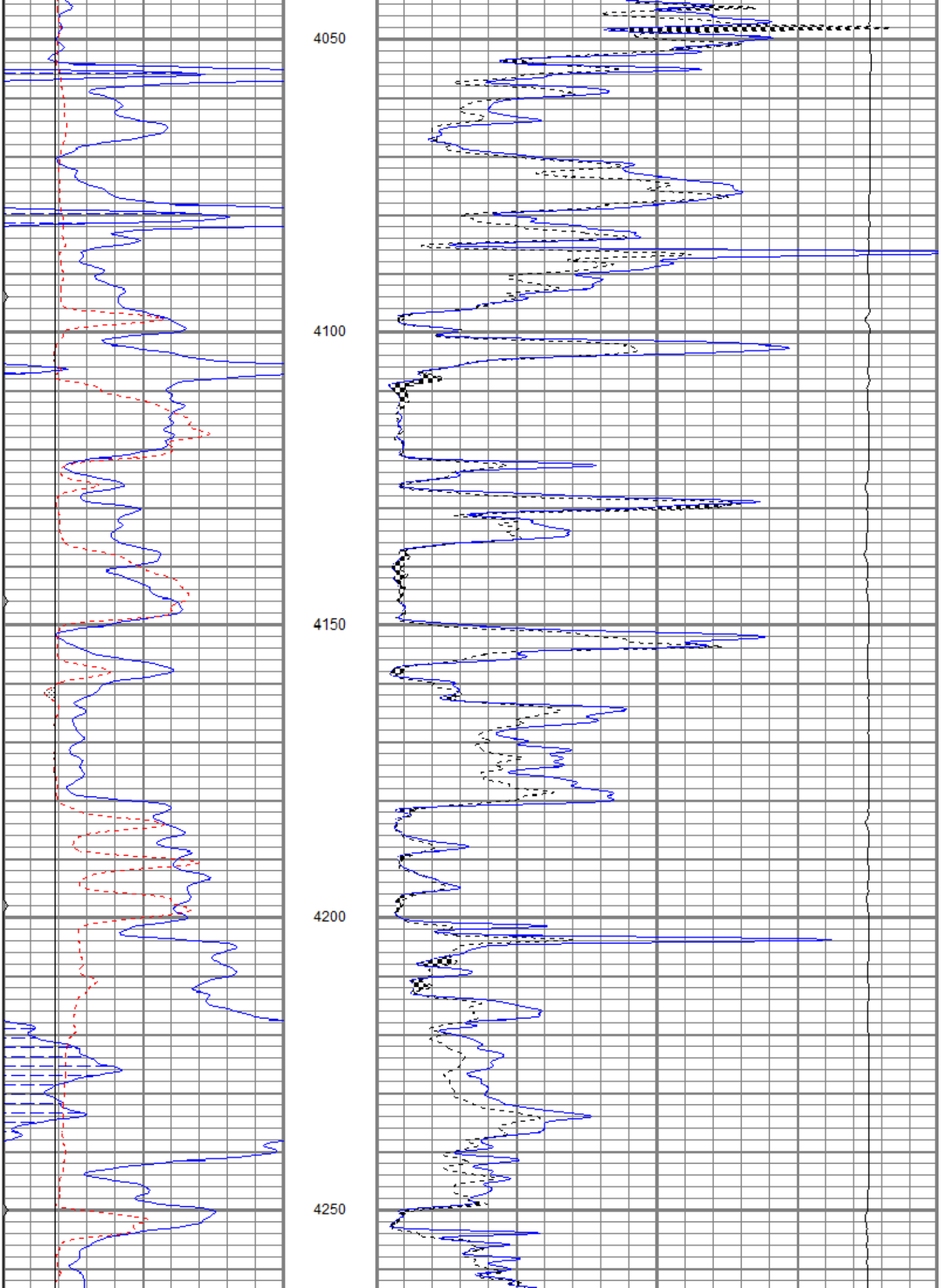
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

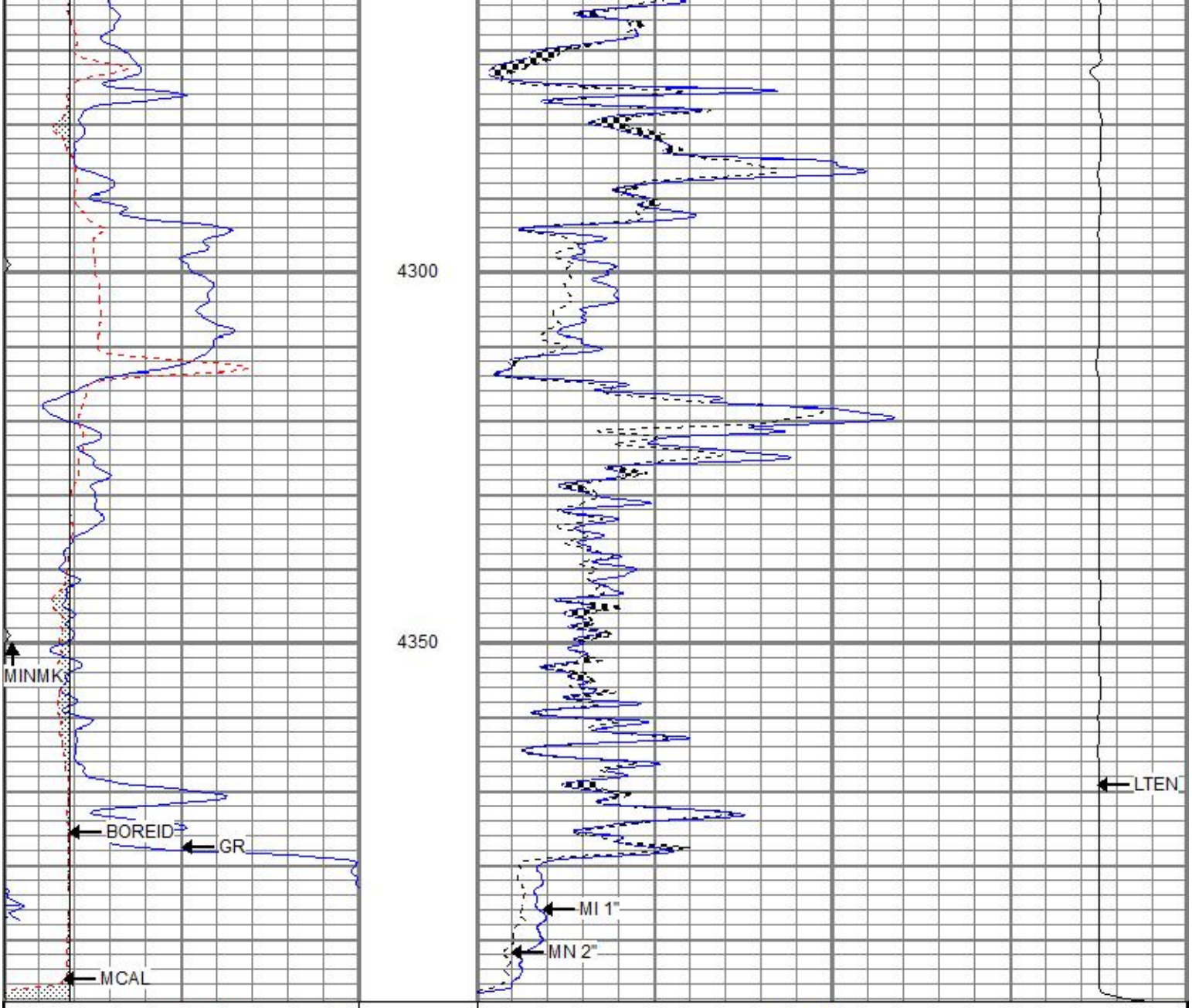



3400
3450
3500
3550
3600


3650
3700
3750
3800


3850
3900
3950
4000


4050
4100
4150
4200
4250



0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

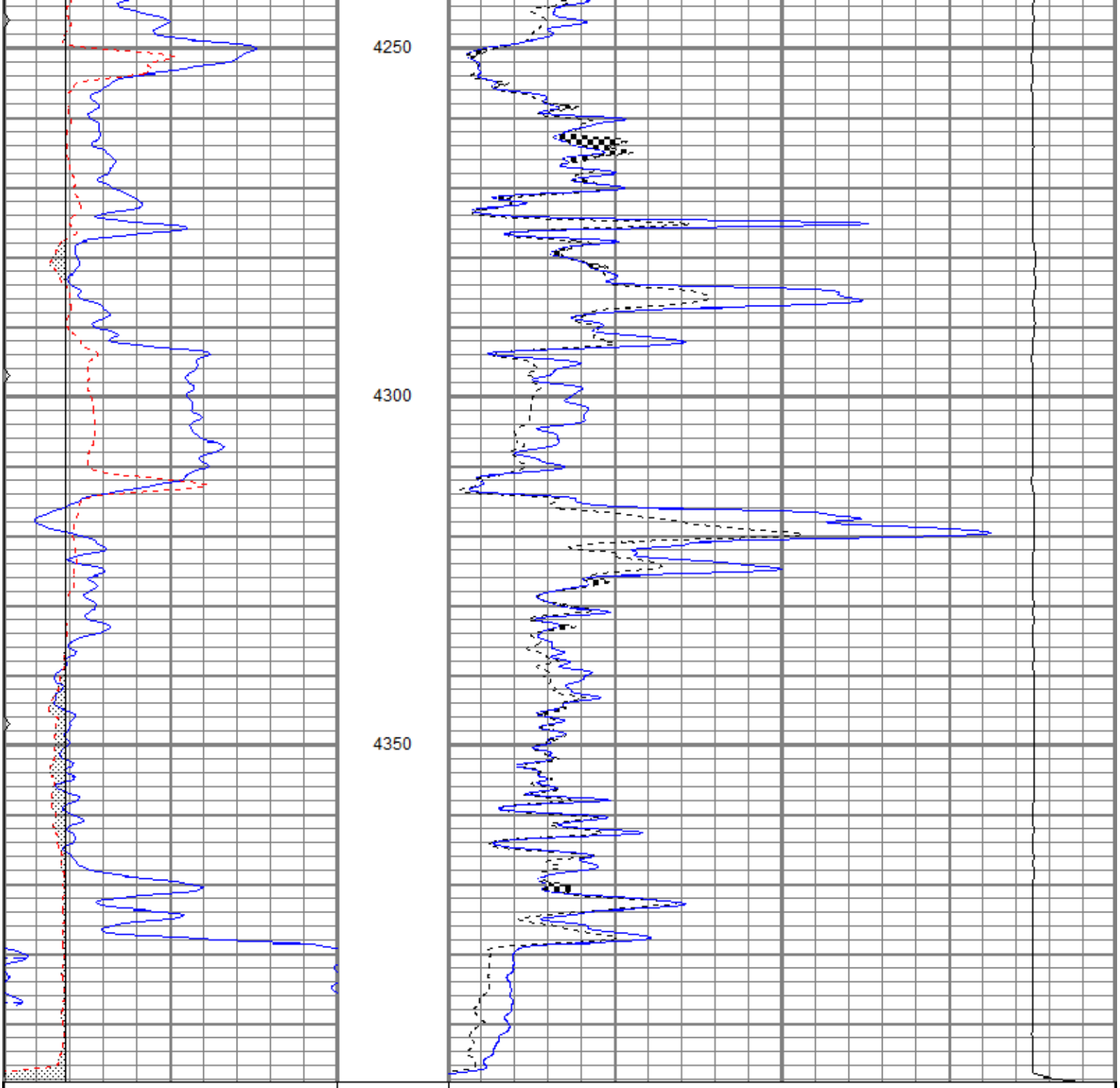
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

Repeat Pass

Database File	reyoung#1oh.db
Dataset Pathname	pass3.1
Presentation Format	kml
Dataset Creation	Thu Jan 12 19:44:43 2017
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

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



Calibration Report

Database File	reyoung#1oh.db
Dataset Pathname	pass3.1
Dataset Creation	Thu Jan 12 19:44:43 2017

Microlog Calibration Report

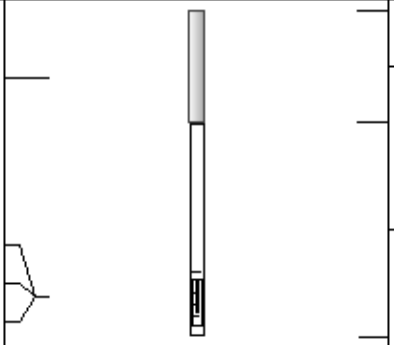
Serial-Model:	012-Pengo
Performed:	Thu Jan 12 19:26:44 2017

Readings		References		Results	
Zero	Cal	Zero	Cal	m	b

Normal	0.0127	0.4340	V	0.0000	20.0000	Ohm-m	47.4757	-0.6021
Inverse	0.0179	0.5725	V	0.0000	12.0000	Ohm-m	21.6367	-0.3875
Caliper	2.0530	4.7700	V	7.7500	14.0000	in	2.3003	3.0273

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	8.38		GR-P2000 (2000)	3.67	3.25	40.00
			ML-Pengo (012)	6.97	3.50	100.00
MCAL	1.30					
MI	1.30					
MN	1.30					

Dataset:	reyoung#1oh.db: field/well/run1/pass3.1
Total length:	10.63 ft
Total weight:	140.00 lb
O.D.:	3.50 in