MICRO RESISTIVITY LOG

Company H & D Exploration LLC.
Well Dozier #1
Field Unknown
County Stafford State Kansas

Location: API # : 15 185 23961
1630' FNL & 1087' FWL
SEC 21 TWP 25S RGE 11W

Other Services
CDNL
DIL
BCS

Elevation
K.B. 1824'
D.F. 1823'
G.L. 1816'

Permanent Datum Ground Level Elevation 1816'
Log Measured From KB 8' AGL
Drilling Measured From KB

Company H & D Exploration LLC.
Well Dozier #1
Field Unknown
County Stafford
State Kansas

Date	6-14-16		
Run Number	Two		
Depth Driller	4200'		
Depth Logger	4202'		
Bottom Logged Interval	4180'		
Top Log Interval	3100'		
Casing Driller	8 5/8" @ 727'		
Casing Logger	727'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/51		
pH / Fluid Loss	9.8/9.6		
Source of Sample	Pit		
Rm @ Meas. Temp	2.1@72degf		
Rmf @ Meas. Temp	1.58@72degf		
Rmc @ Meas. Temp	2.52@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.35@112degf		
Time Circulation Stopped	2:30 a.m.		
Time Logger on Bottom	6:00 a.m.		
Maximum Recorded Temperature	112degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Jim Musgrove		

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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

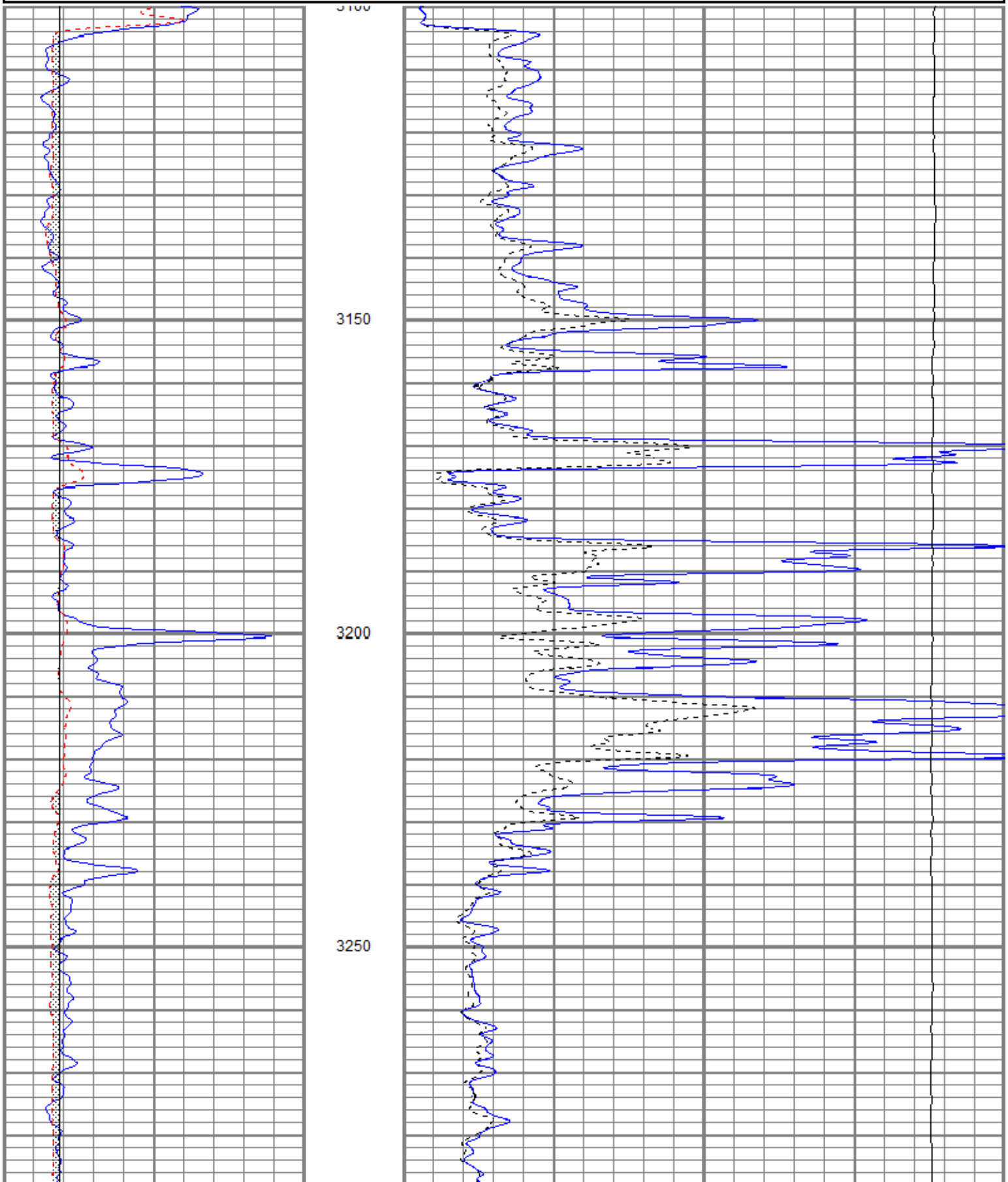
Thanks for using Gemini Wireline LLC
785-625-1182

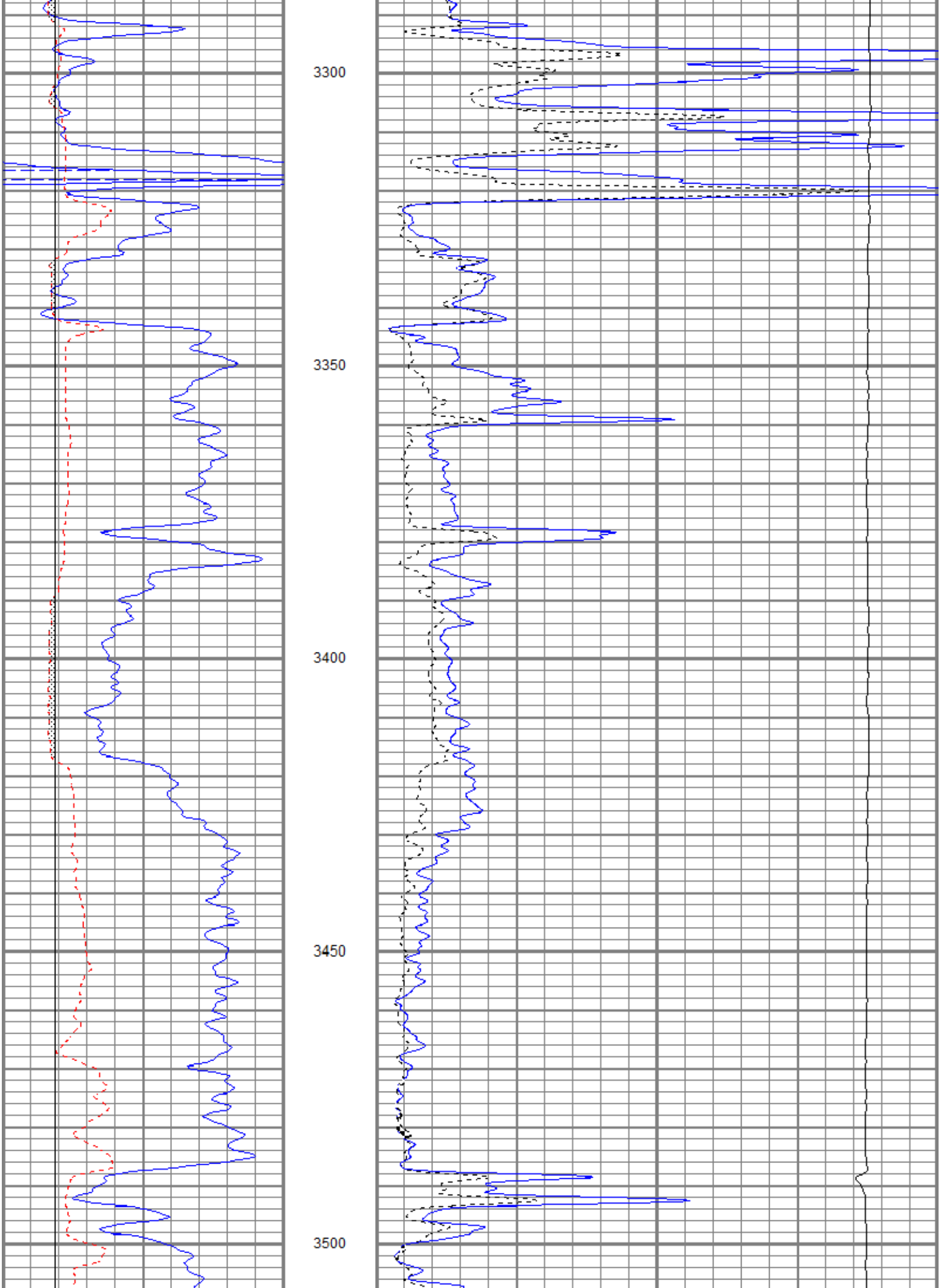
Main Pass

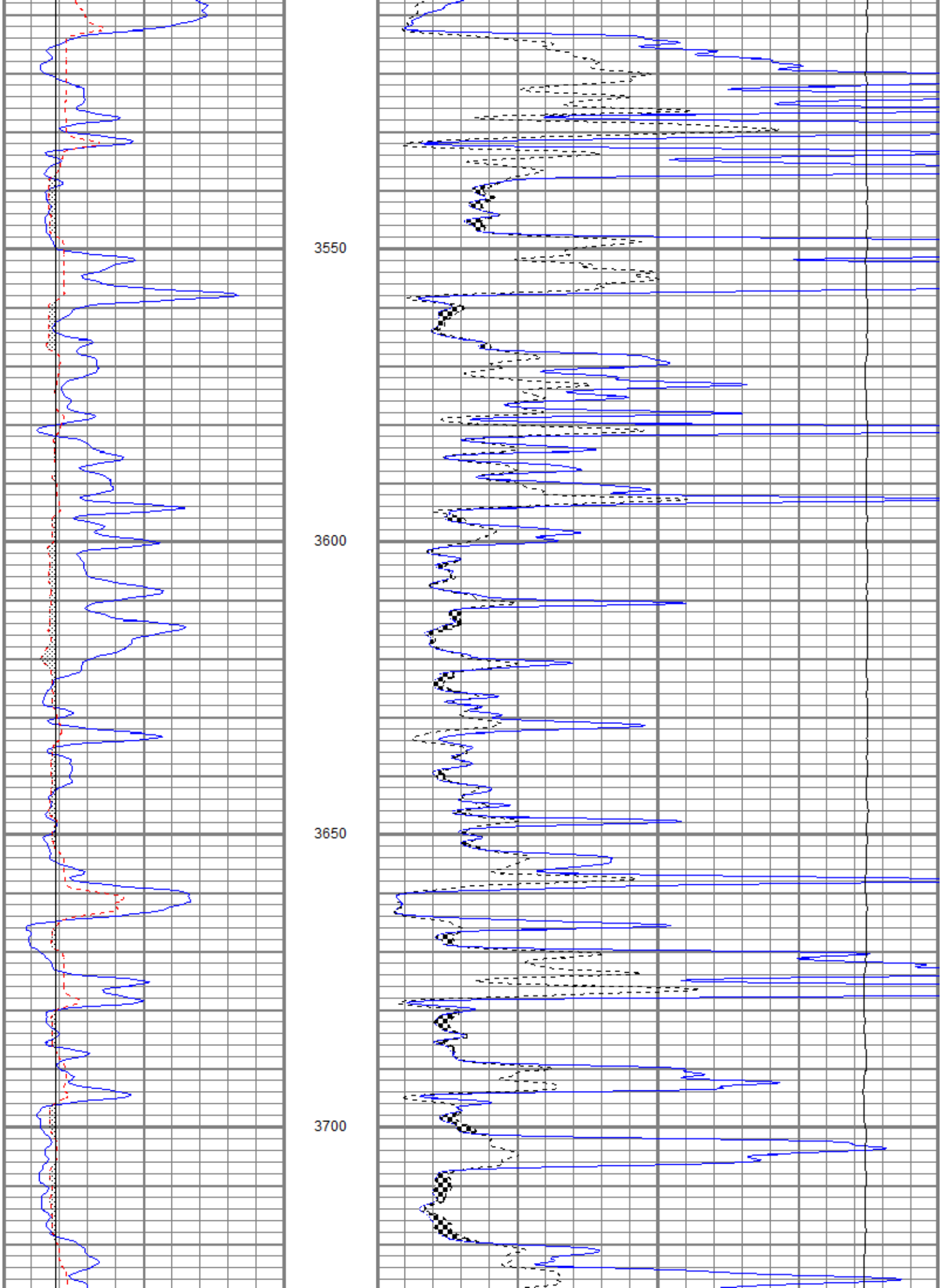
Database File	hddozier#1oh.db
Dataset Pathname	pass5
Presentation Format	kml
Dataset Creation	Tue Jun 14 06:09:19 2016
Charted by	Depth in Feet scaled 1:240

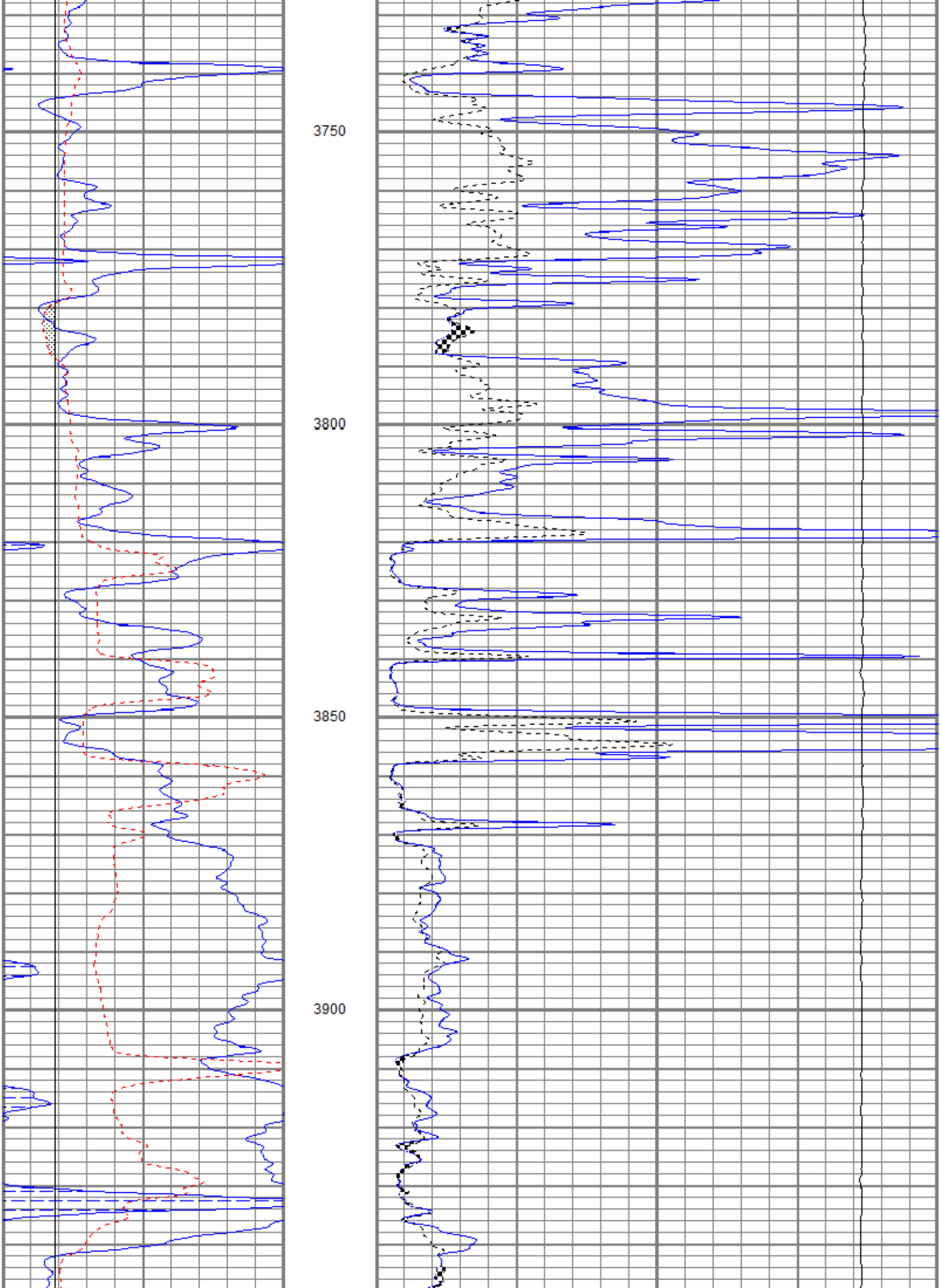
0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16

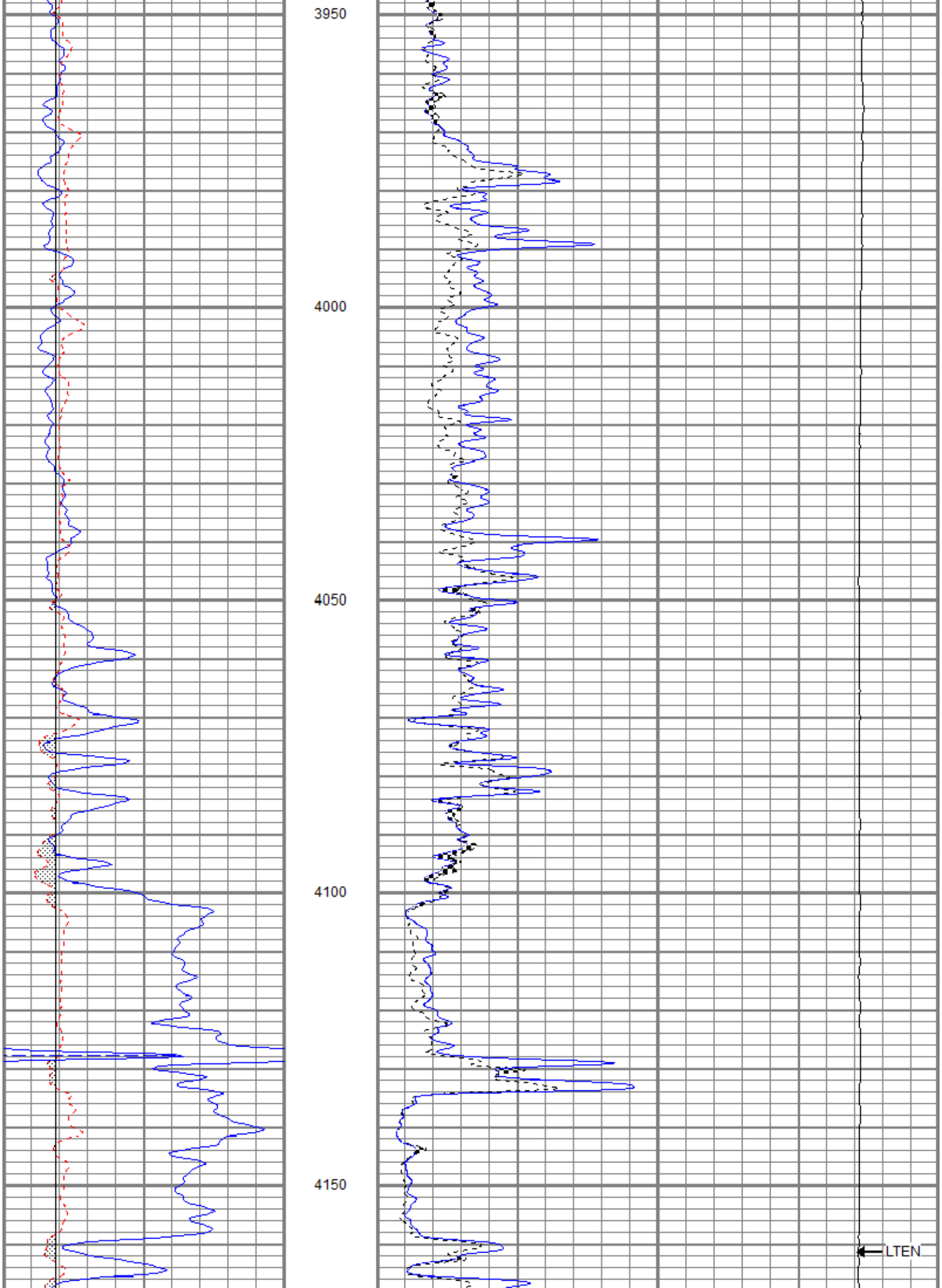
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

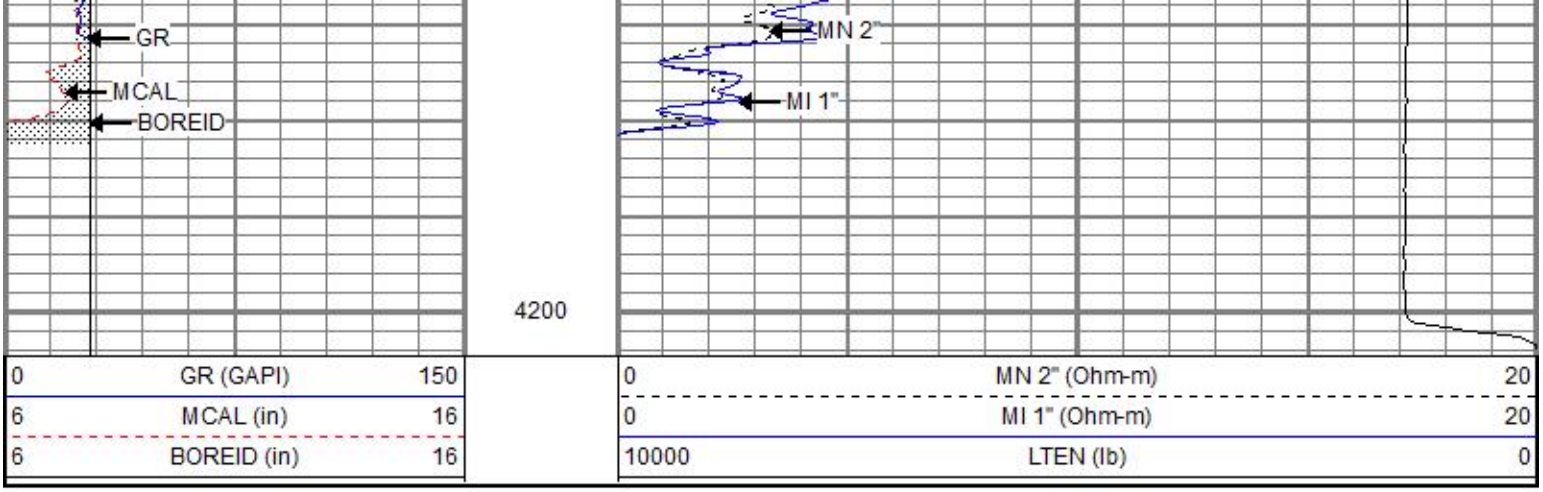



3300
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3900


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4000
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4100
4150
LTEN



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

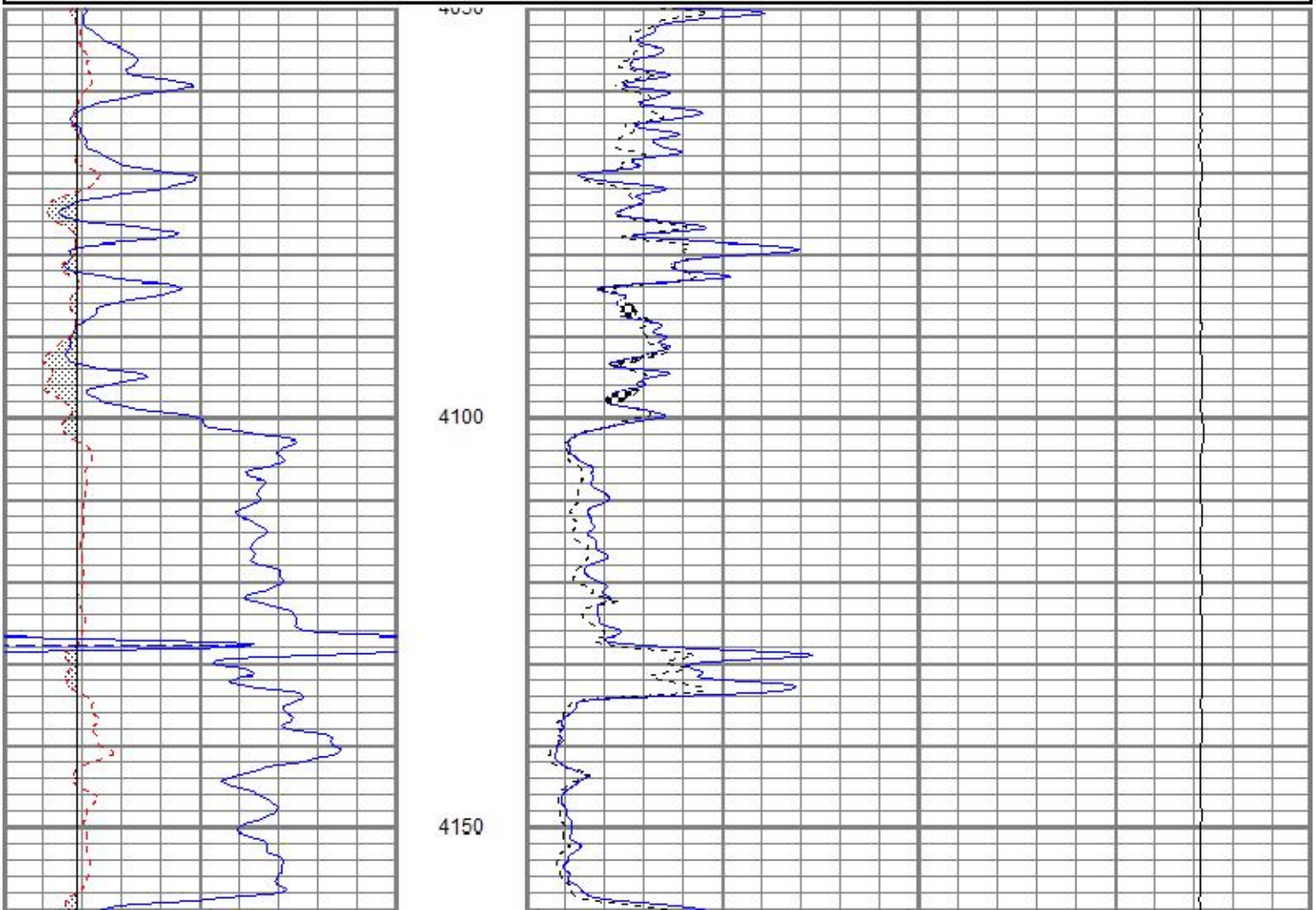
0	MN 2" (Ohm-m)	20
0	MI 1" (Ohm-m)	20
10000	LTEN (lb)	0

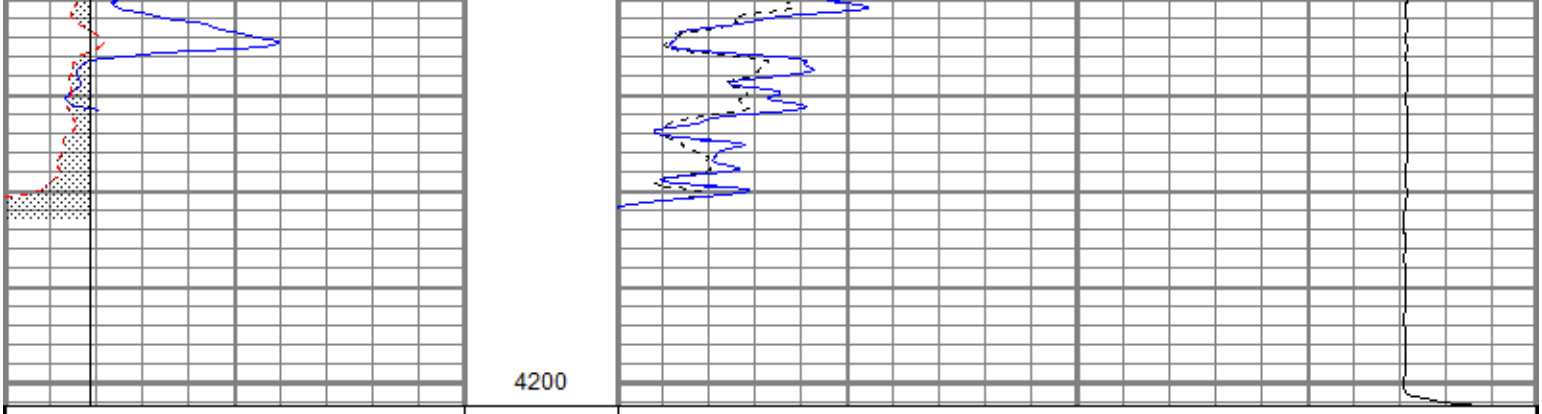
Repeat Pass

Database File	hddozier#1oh.db
Dataset Pathname	pass4.1
Presentation Format	kml
Dataset Creation	Tue Jun 14 06:36:57 2016
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





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 hddozier#1oh.db
Dataset Pathname pass4.1
Dataset Creation Tue Jun 14 06:36:57 2016

Microlog Calibration Report

Serial-Model: 012-Pengo
Performed: Wed Apr 20 21:39:52 2016

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0073	0.4397	V	0.0000	11.0000	Ohm-m	25.4408	-0.1852
Inverse	0.0081	0.5639	V	0.0000	7.2000	Ohm-m	12.9558	-0.1056
Caliper	2.0536	4.5712	V	7.6500	16.0000	in	3.3165	0.8393

Gamma Ray Calibration Report

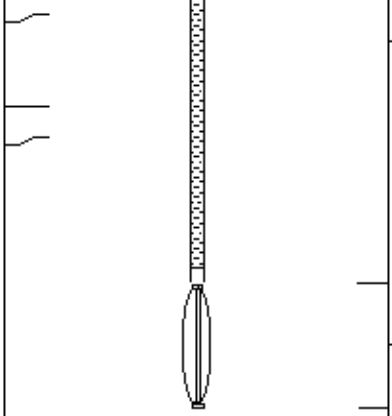
Serial Number: 2001
Tool Model: OH
Performed: Thu Jan 21 09:36:03 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2400 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	27.88		GR-OH (2001) 2001	3.56	3.25	40.00
			ML-Pengo (012)	6.97	3.50	100.00
MCAL	21.05					
MI	21.05					
MN	21.05					
WVF4	13.79					

WVF3	12.79		SLT-G (101127) Sonic	15.71	3.50	250.00
WVF2	9.79					
WVF1	8.79					
			CENT-OHshort Open Hole short centralizer	4.04	3.50	50.00

Dataset: hddozier#1oh.db: field/well/run1/pass4.1
Total length: 30.28 ft
Total weight: 440.00 lb
O.D.: 3.50 in