



MICRO RESISTIVITY LOG

Company	Patterson Energy	Company	Patterson Energy
Well	Zeigler #1-35	Well	Zeigler #1-35
Field	Trico	Field	Trico
County	Graham	County	Graham
State	Kansas	State	Kansas
Location:	API #: 15 065 24175 1630' FSL & 2970' FEL		
Permanent Datum	SEC 35 TWP 10S RGE 21W	Ground Level	Elevation 2090'
Log Measured From	KB 5' AGL		
Drilling Measured From	KB	Other Services	CDNL DIL
		Elevation	K.B. 2095' D.F. 2094' G.L. 2090'
Date	11/02/19		
Run Number	Two		
Depth Driller	3750'		
Depth Logger	3748'		
Bottom Logged Interval	3746'		
Top Log Interval	3000'		
Casing Driller	8 5/8" @ 235'		
Casing Logger	235'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical	Chlorides 3000 PPM	
Density / Viscosity	9.2/54		
pH / Fluid Loss	9.5/8.8		
Source of Sample	Pit		
Rm @ Meas. Temp	2.0@65degf		
Rmf @ Meas. Temp	1.6@65degf		
Rmc @ Meas. Temp	2.6@65degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.3@103degf		
Time Circulation Stopped	5:30 p.m		
Time Logger on Bottom	9:25 p.m		
Maximum Recorded Temperature	103degf		
Equipment Number	T-605		
Location	Hays, KS.		
Recorded By	Casey Patterson		
Witnessed By	Mr. Marc Downing	Mr. Zach Patterson	

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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

Ellis,KS North on Ellis Ave. to N County Line Rd/EE Rd.,
West on N County Line Rd./EE Rd. 5 mi. to 380 th Rd.,North 1/2 mi. on 380TH Rd.,
East Through Cattle Guard and East to South Into Location Down Existin Lease Rd.

Thanks for using Gemini Wireline LLC
785-625-1182

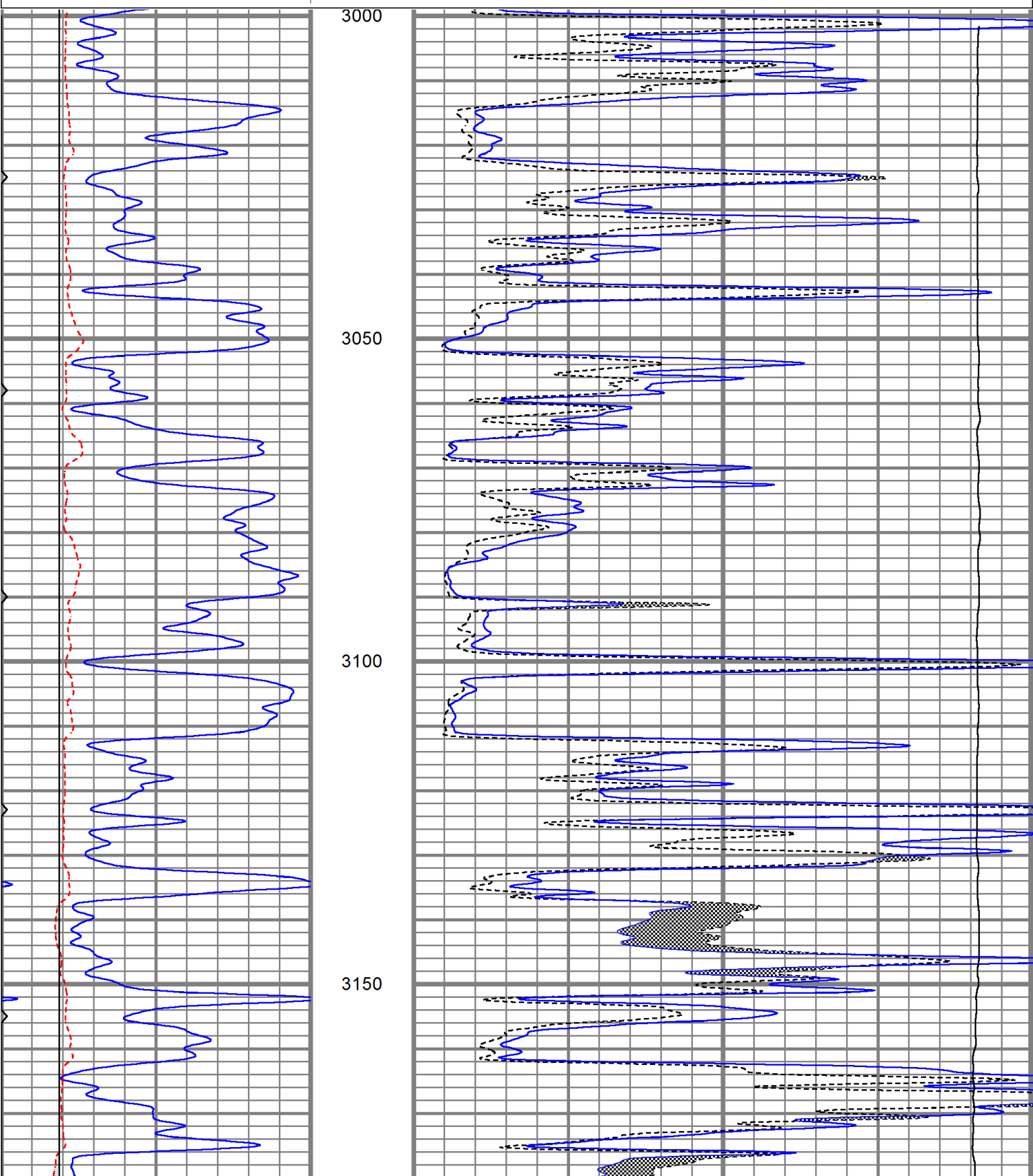


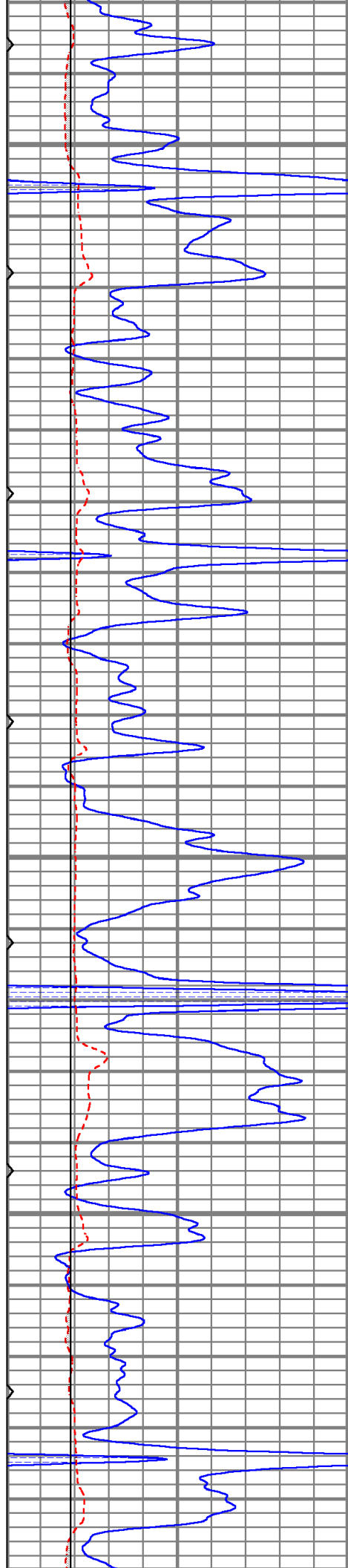
MAIN PASS

Database File	pezeigler#1-35oh.db
Dataset Pathname	pass5
Presentation Format	kml
Dataset Creation	Sat Nov 02 21:31:13 2019
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





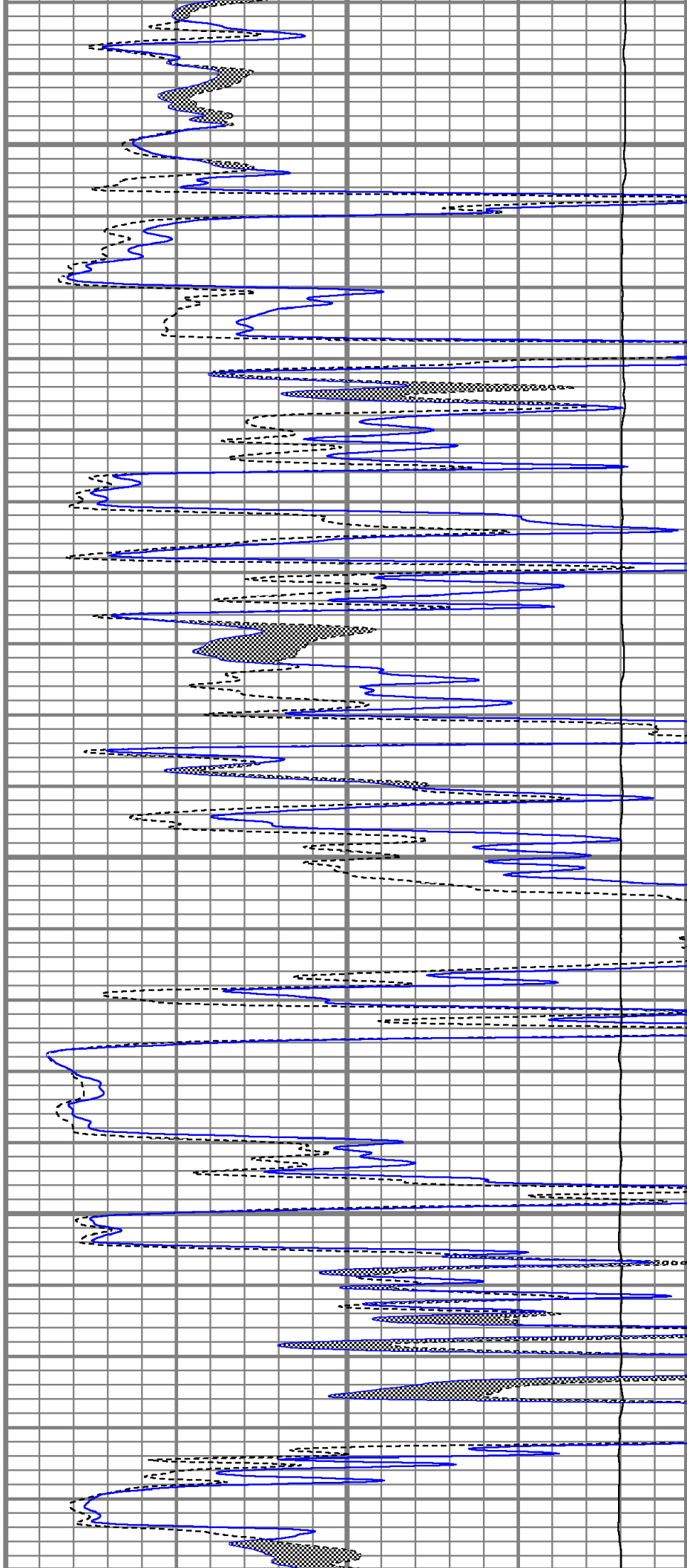
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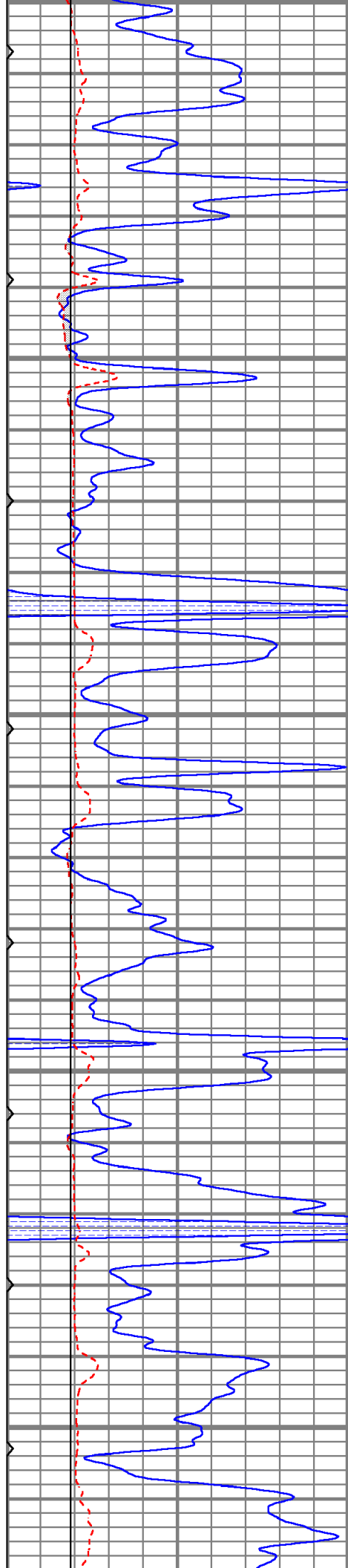
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3300

3350

3400





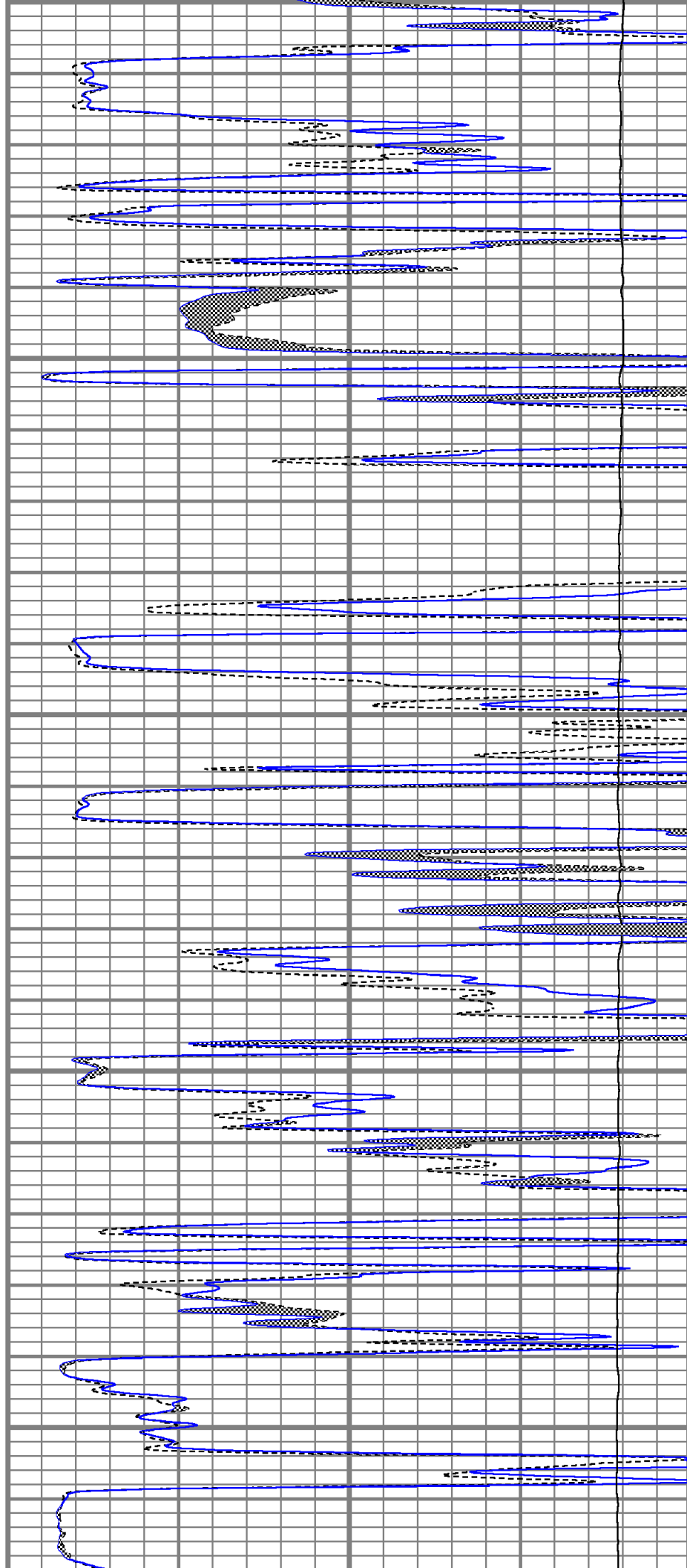
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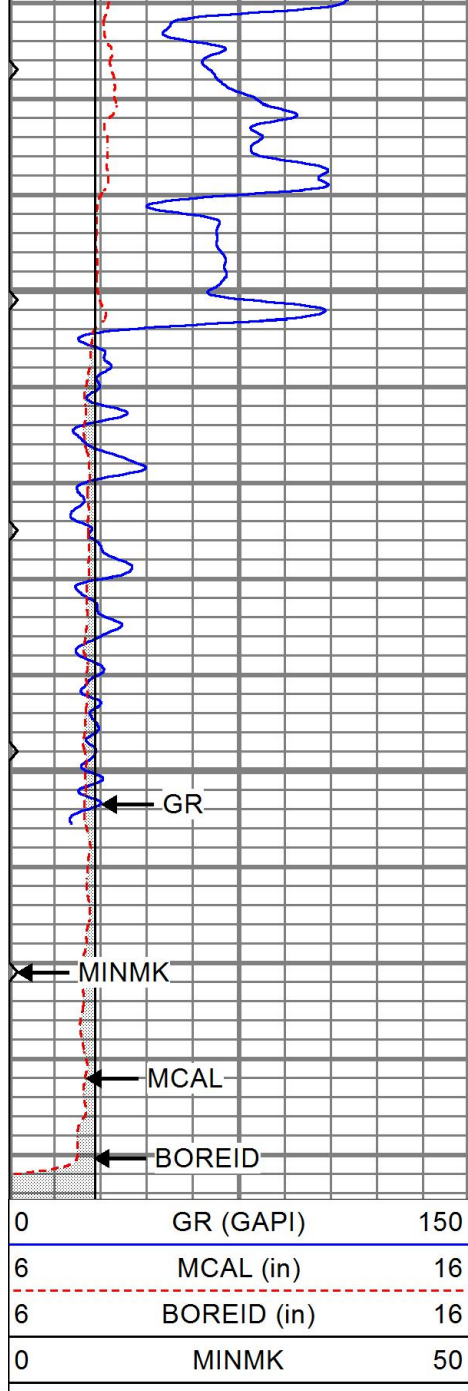
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3500

3550

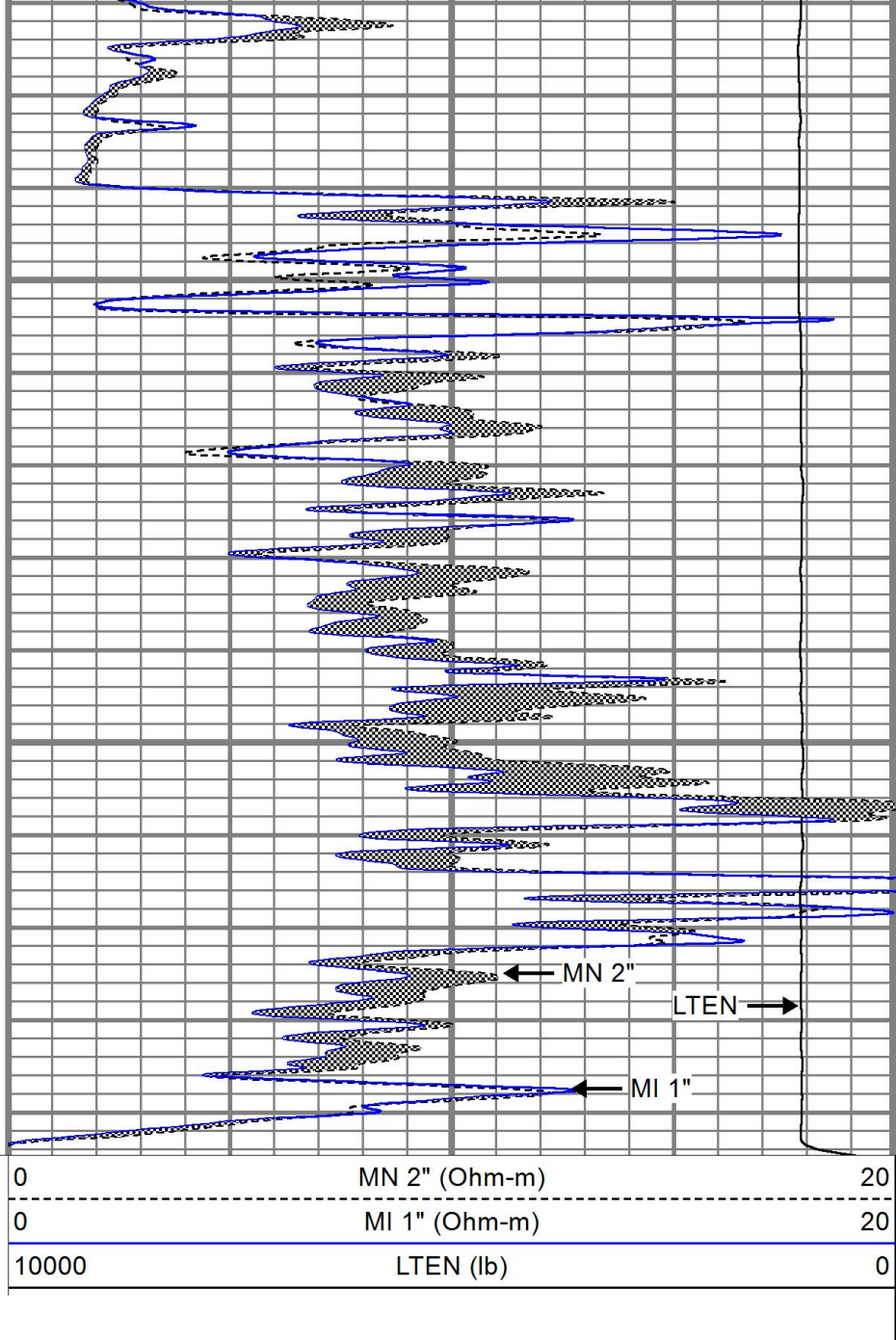
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3650

3700

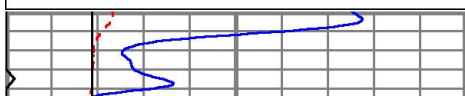


REPEAT SECTION

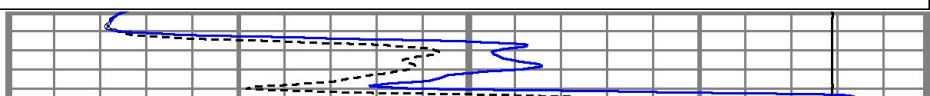
Database File pezeigler#1-35oh.db
 Dataset Pathname pass4
 Presentation Format kml
 Dataset Creation Sat Nov 02 21:18:41 2019
 Charted by Depth in Feet scaled 1:240

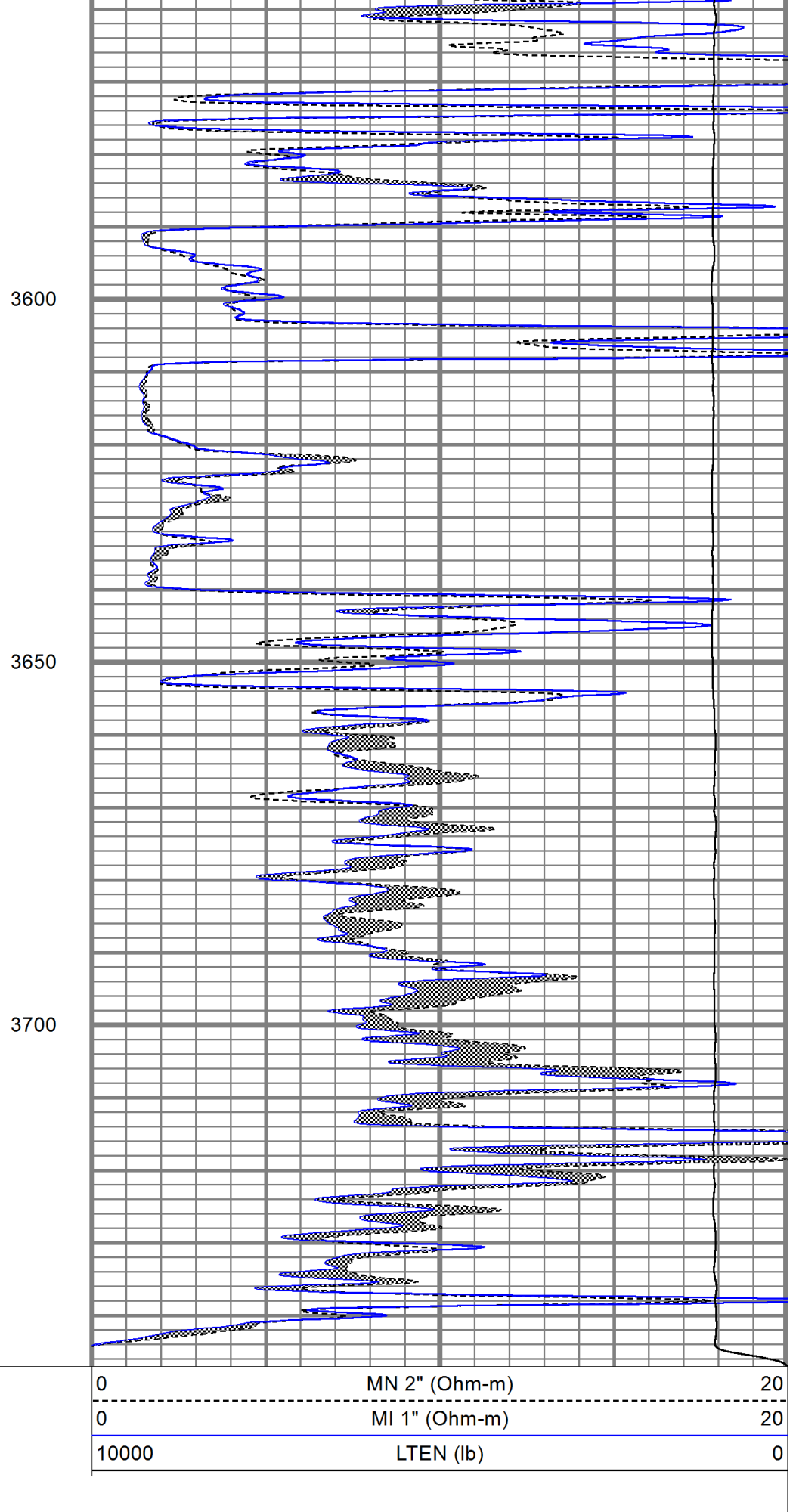
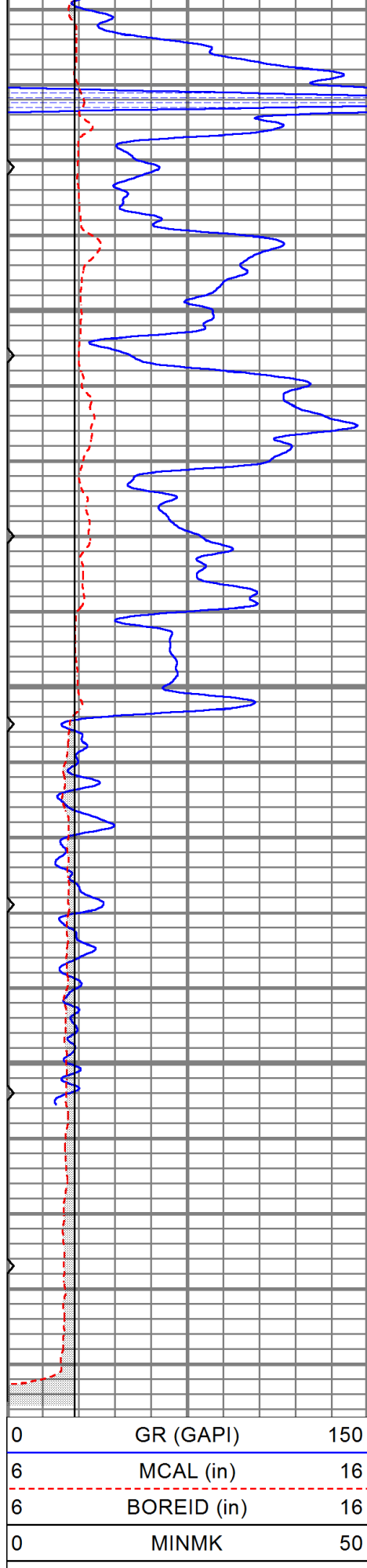
0	GR (GAPI)	150
6	MCAL (in)	16
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3550



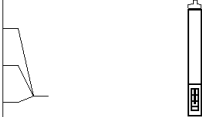


Database File	pezeigler#1-35oh.db
Dataset Pathname	pass5
Dataset Creation	Sat Nov 02 21:31:13 2019

Microlog Calibration Report

Serial-Model:	9151-Gerhart
Performed:	Sat Nov 02 21:16:55 2019

Readings				References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	0.0036	0.4805	V	0.0000	10.0000	Ohm-m	20.9695	-0.0749
Inverse	0.0067	0.6209	V	0.0000	10.0000	Ohm-m	16.2812	-0.1097
Caliper	1.0212	2.0456	V	7.9000	15.0000	in	6.9308	0.8221

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL	1.83		CHD-None	0.75	1.50	5.00
MI	1.83		ML-Gerhart (9151)	9.46	4.00	125.00
MN	1.83		Gerhart Micro			

Dataset:	pezeigler#1-35oh.db: field/well/run1/pass5
Total length:	10.21 ft
Total weight:	130.00 lb
O.D.:	4.00 in