



**MICRO  
RESISTIVITY  
LOG**

Company Patterson Energy  
Well Cook #17  
Field Trico  
County Trego  
State Kansas

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Well Cook #17  
Field Trico  
County Trego State Kansas

Location: API #: 15 195 23103  
400' FNL & 330' FWL  
SEC 2 TWP 11S RGE 21W  
Permanent Datum Ground Level Elevation 2071'  
Log Measured From KB 8' AGL  
Drilling Measured From KB  
Other Services  
DIL  
CDNL  
Elevation  
K.B. 2079'  
D.F. 2078'  
G.L. 2071'

Date	3/09/20	
Run Number	Two	
Depth Driller	3730'	
Depth Logger	3729'	
Bottom Logged Interval	3727'	
Top Log Interval	2950'	
Casing Driller	8 5/8" @ 222'	
Casing Logger	222'	
Bit Size	7 7/8"	
Type Fluid in Hole	Chemical	Chlorides 5000 PPM
Density / Viscosity	9.0/57	
pH / Fluid Loss	11.0/7.6	
Source of Sample	Pit	
Rm @ Meas. Temp	1.1 @ 80degf	
Rmt @ Meas. Temp	.88 @ 80degf	
Rmc @ Meas. Temp	1.4 @ 80degf	
Source of Rmf / Rmc	Calculated	
Rm @ BHT	.9 @ 102degf	
Time Circulation Stopped	12:30 p.m	
Time Logger on Bottom	4:00 p.m	
Maximum Recorded Temperature	102degf	
Equipment Number	T-605	
Location	Hays, KS.	
Recorded By	Casey Patterson	
Witnessed By	Mr. Jason T Alm	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./A Rd. 3.6 mi. ,  
South Into Location Down Existing Lease Rd. By Farm House

Thanks for using Gemini Wireline LLC  
785-625-1182

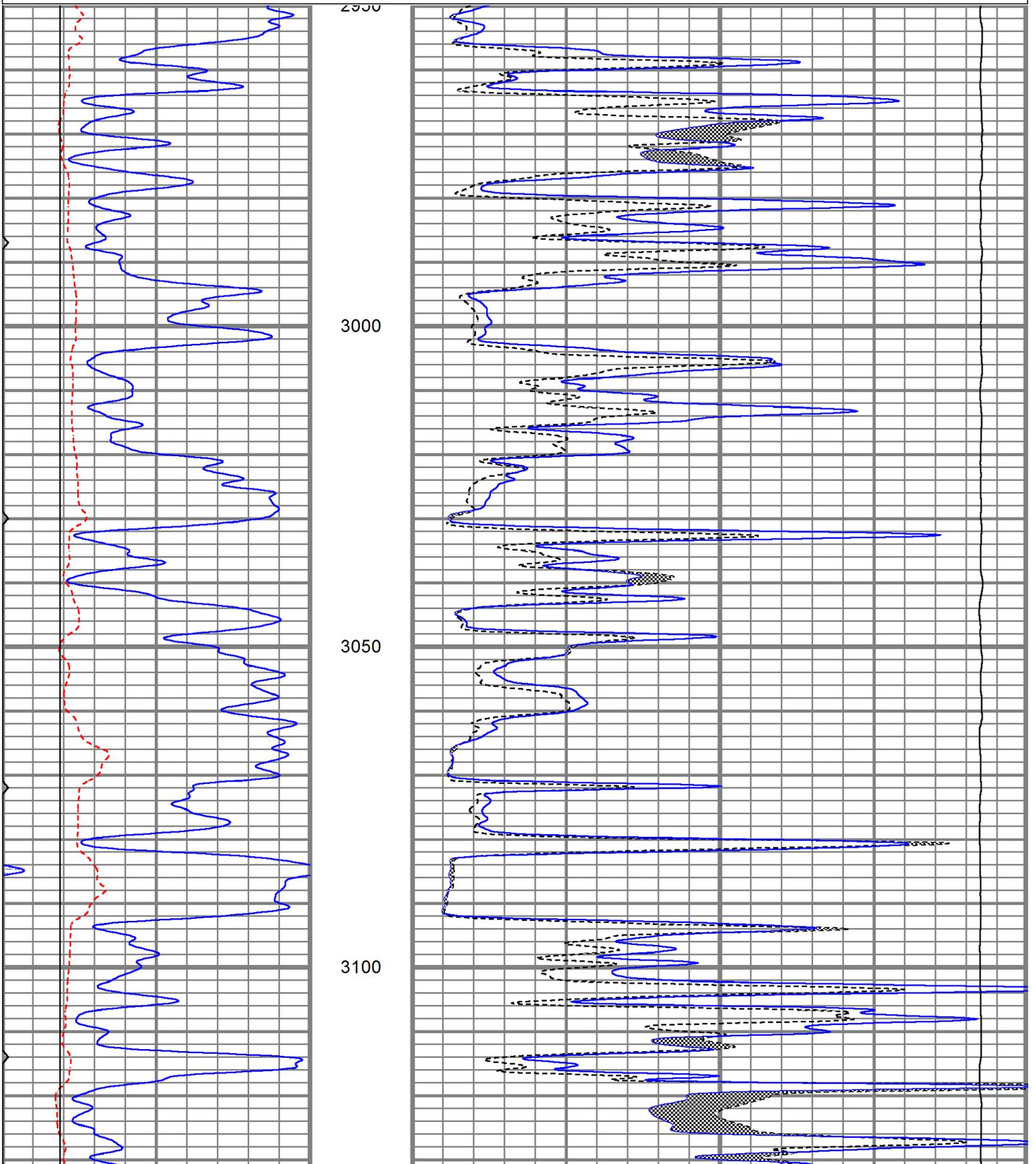


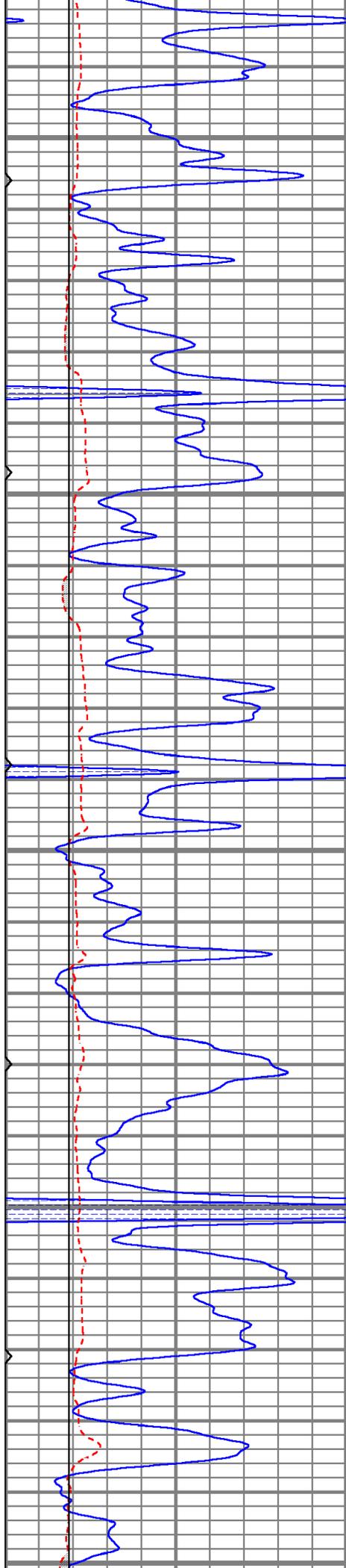
**MAIN PASS**

Database File pecook#17oh.db  
 Dataset Pathname pass4  
 Presentation Format kml  
 Dataset Creation Mon Mar 09 16:20:52 2020  
 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





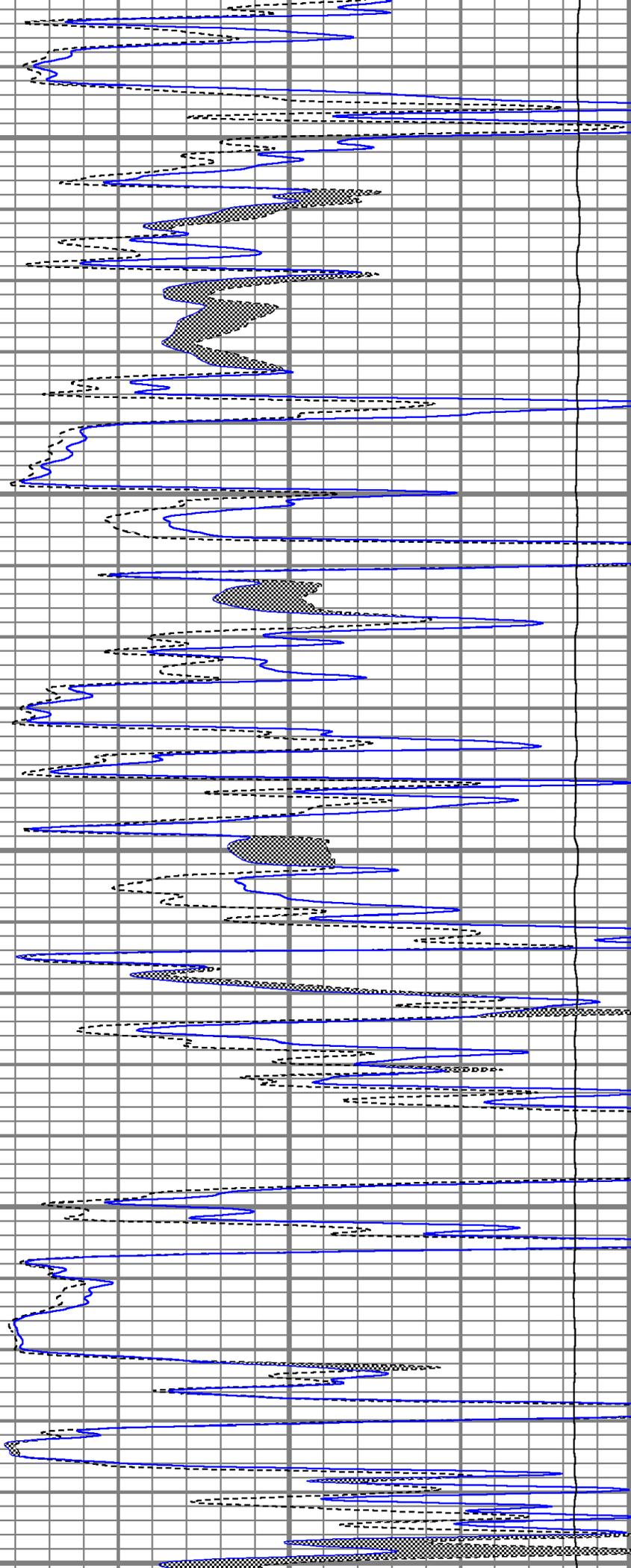
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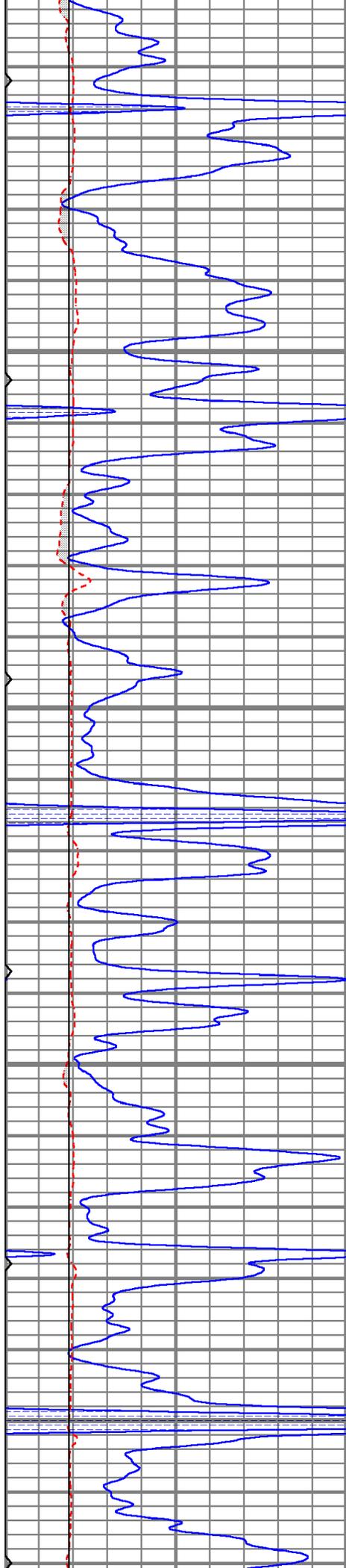
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3250

3300

3350



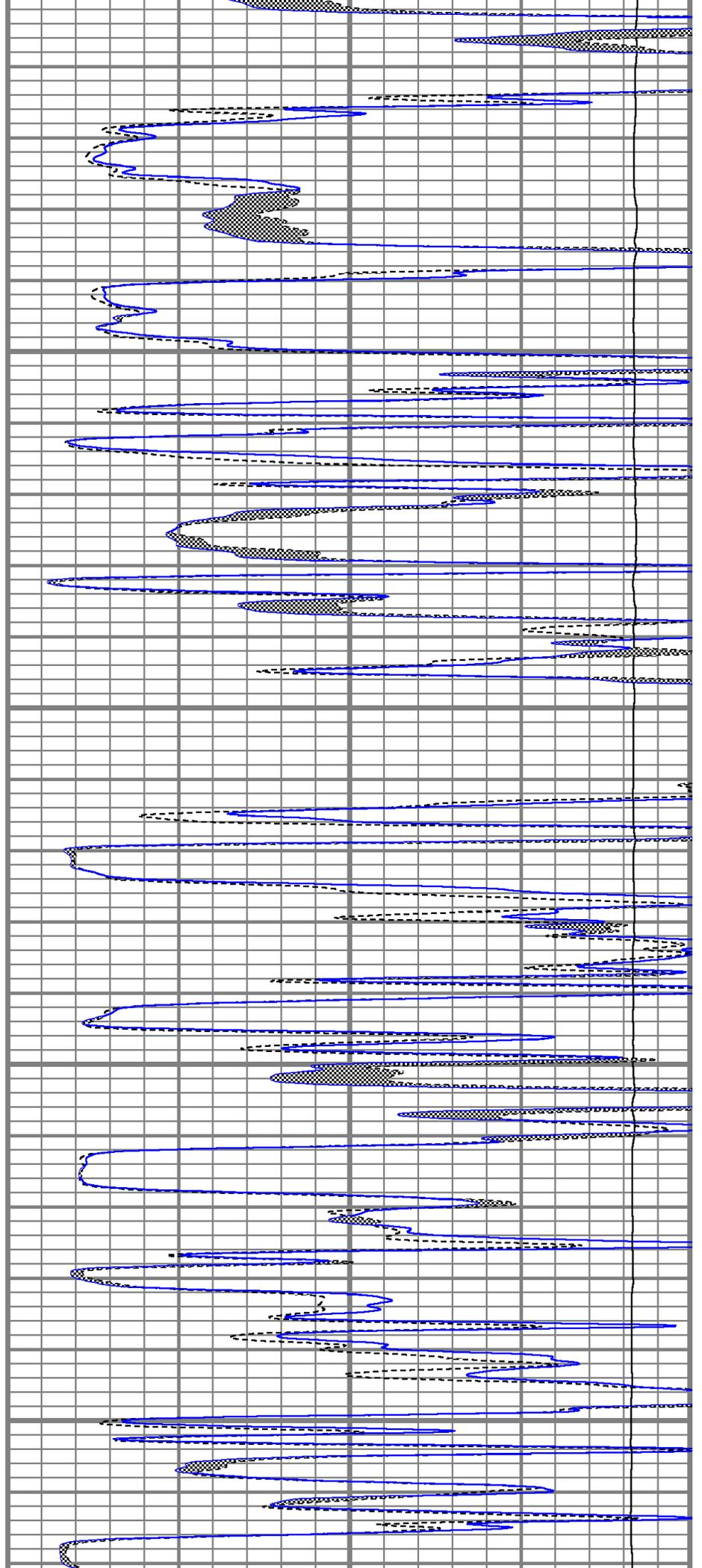


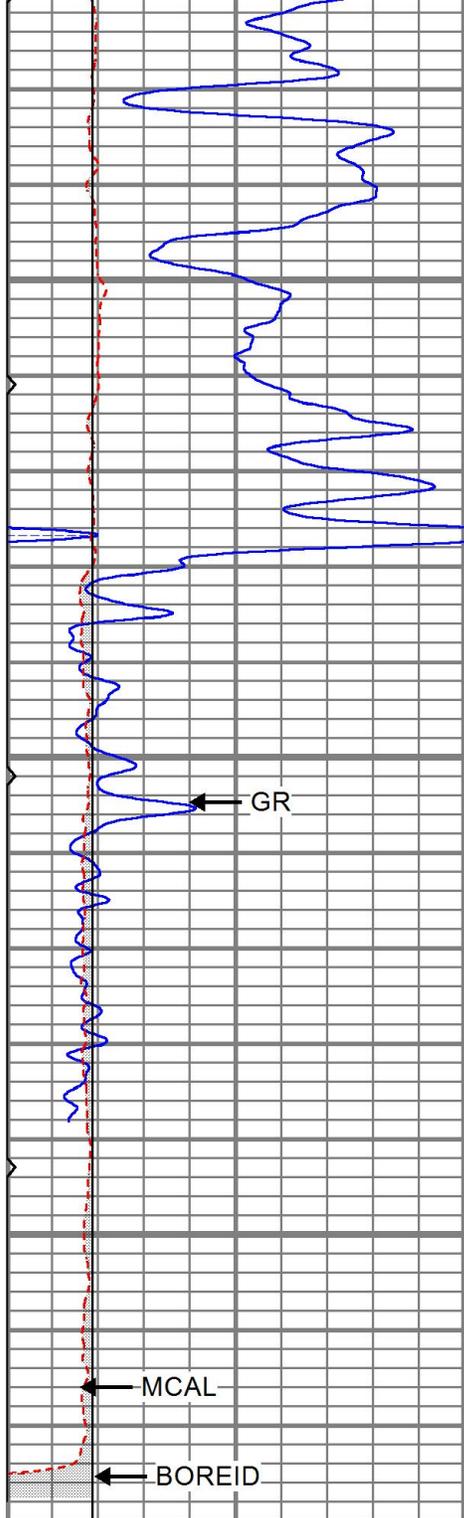
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3450

3500

3550



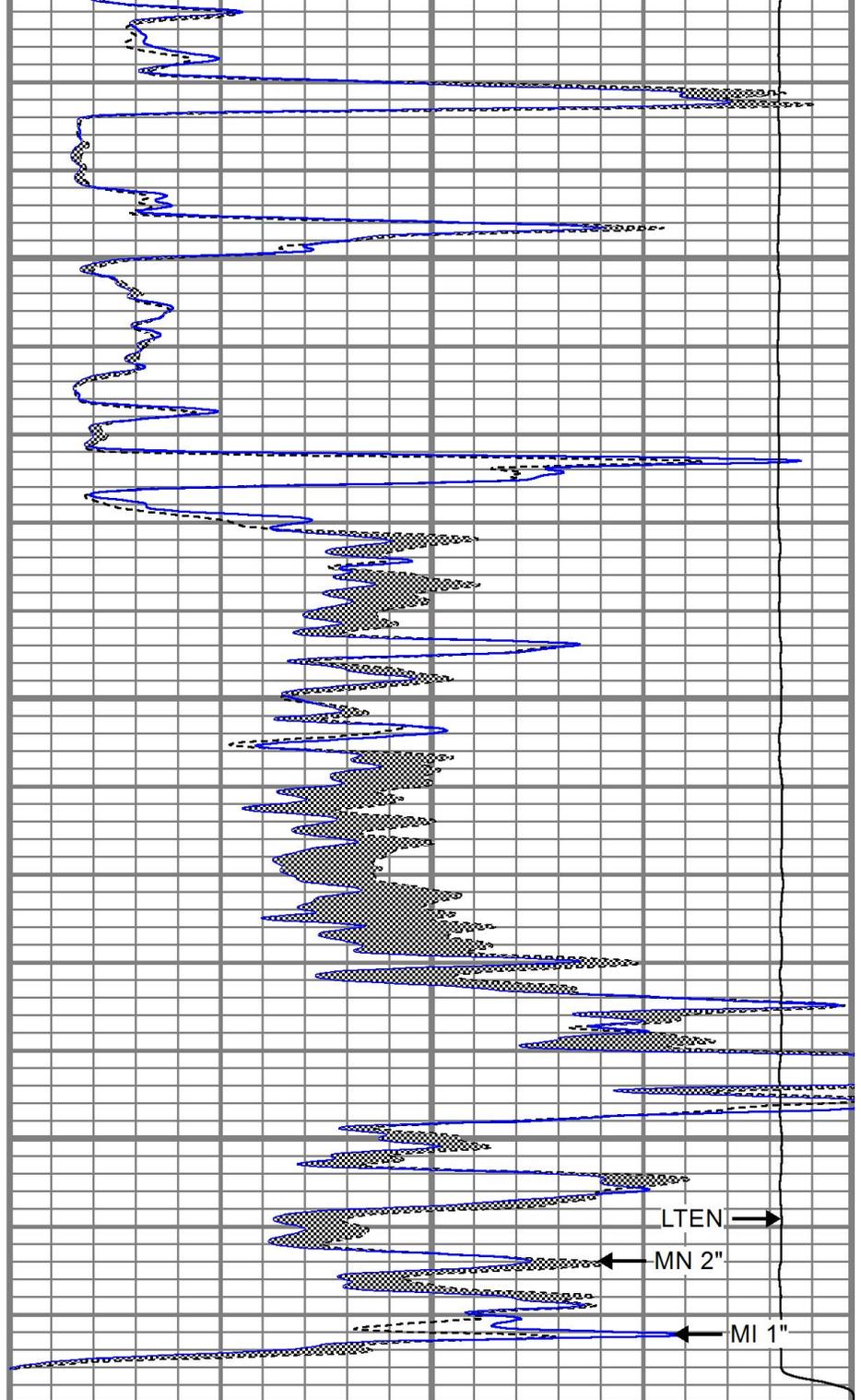


0	GR (GAPI)	150
6	MCAL (in)	16
6	BOREID (in)	16
0	MINMK	50

3600

3650

3700



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

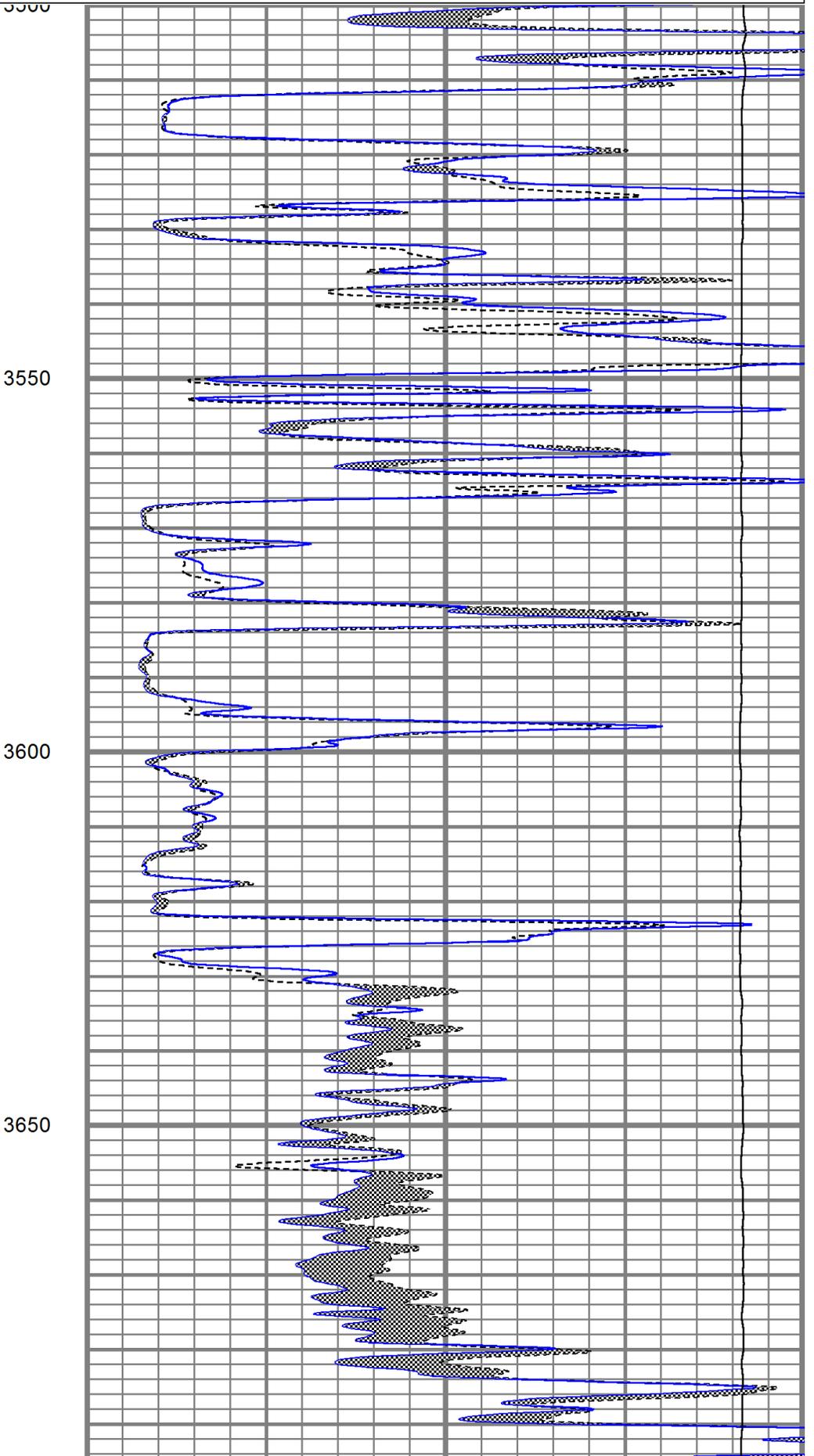
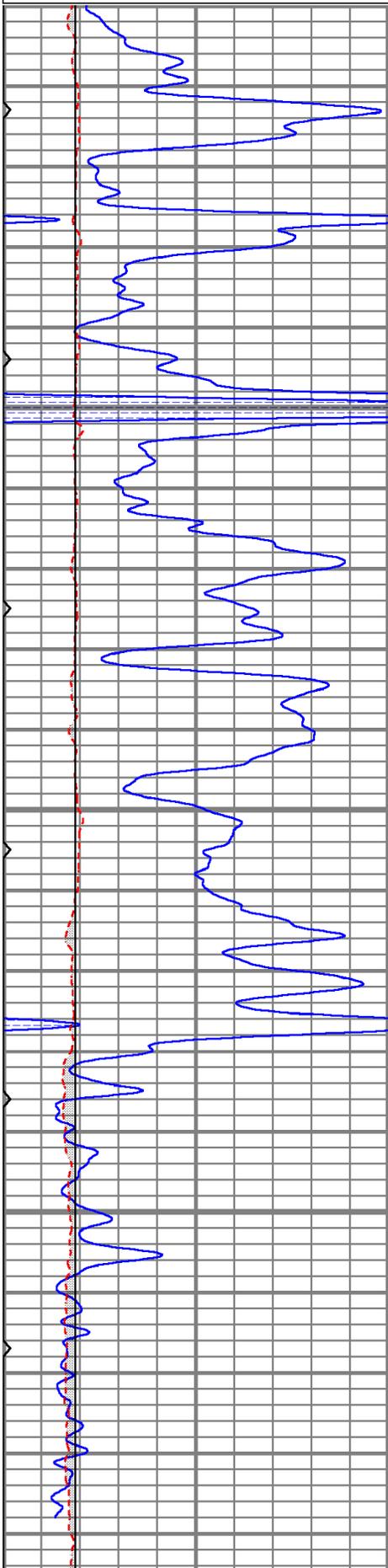


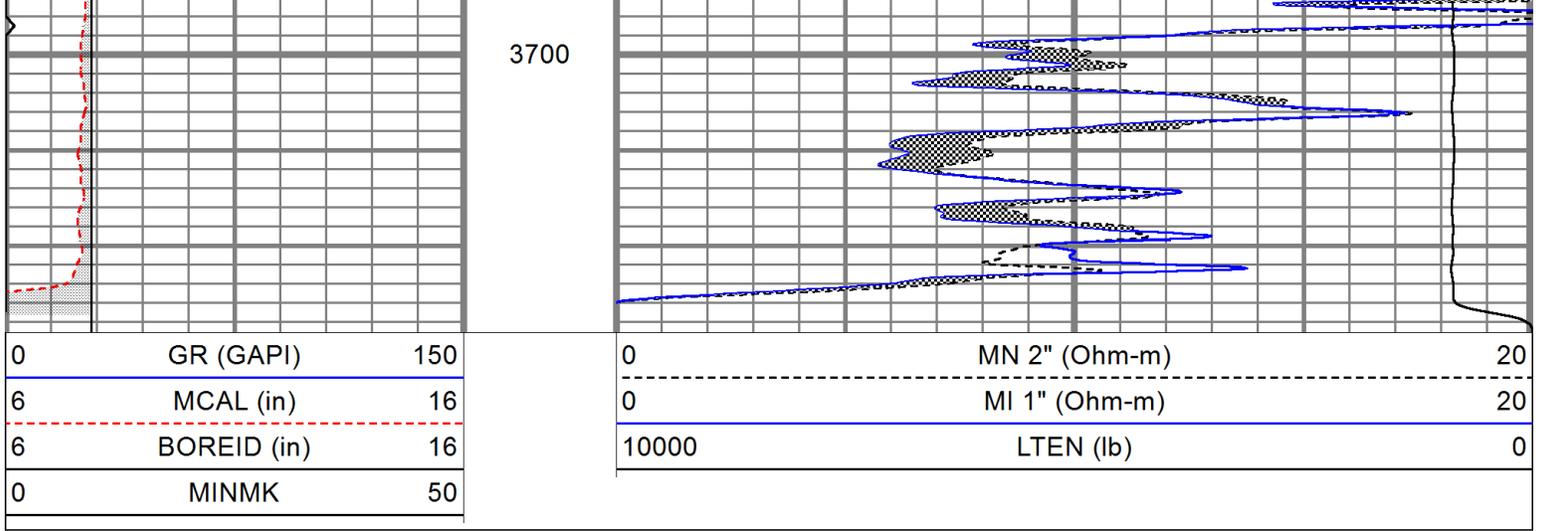
# REPEAT SECTION

Database File      pecook#17oh.db  
 Dataset Pathname    pass3  
 Presentation Format   kml  
 Dataset Creation     Mon Mar 09 16:09:37 2020

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 pecook#17oh.db  
 Dataset Pathname pass3  
 Dataset Creation Mon Mar 09 16:09:37 2020

### Microlog Calibration Report

Serial-Model: 9151-Gerhart  
 Performed: Mon Mar 09 16:07:49 2020

	Readings			V	References			Results	
	Zero	Cal			Zero	Cal		m	b
Normal	0.0077	0.4685			0.0000	10.0000	Ohm-m	21.7014	-0.1680
Inverse	0.0085	0.6137			0.0000	10.0000	Ohm-m	16.5232	-0.1397
Caliper	1.0212	2.0456			8.0000	15.0000	in	6.8332	1.0218

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: pecook#17oh.db: field/well/run1/pass4  
 Total length: 10.21 ft  
 Total weight: 130.00 lb  
 O.D.: 4.00 in