



**MICRO
RESISTIVITY
LOG**

Company Russell Oil, Inc.
Well Dorothy #21-1
Field Rumback
County Logan State Kansas

Location: 2045' FNL & 2310' FWL
API #: 15 109 21528
SEC 21 TWP 11S RGE 32W
Permanent Datum Ground Level Elevation 3037'
Log Measured From KB 7' AGL
Drilling Measured From KB
Other Services
CDNL
DIL
Elevation
K.B. 3045'
D.F. 3044'
G.L. 3037'

Date	10-30-17
Run Number	Two
Depth Driller	4720'
Depth Logger	4720'
Bottom Logged Interval	4718'
Top Log Interval	3700'
Casing Driller	8 5/8" @ 344'
Casing Logger	344'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.1/58
PH / Fluid Loss	10.5/7.6
Source of Sample	Pit
Rm @ Meas. Temp	1.10@72degf
Rmf @ Meas. Temp	0.88@72degf
Rmc @ Meas. Temp	1.41@72degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.68@116degf
Time Circulation Stopped	10:00 a.m
Time Logger on Bottom	2:30 p.m
Maximum Recorded Temperature	116degf
Equipment Number	T729
Location	Hays, KS
Recorded By	Casey P.
Witnessed By	Mrs. Kitt Noah

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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

West of Oakley to 430 Rd.,(West Edge of Golf Course)
Then South 5 mi. to Porter B Tank Batteries (west Side),
Then go west through red gate on southwest side of Porter B tank Batteries,
Then West to North into Location

Open & Shut gate as leaving & going)

Thanks for using Gemini Wireline LLC
785-625-1182

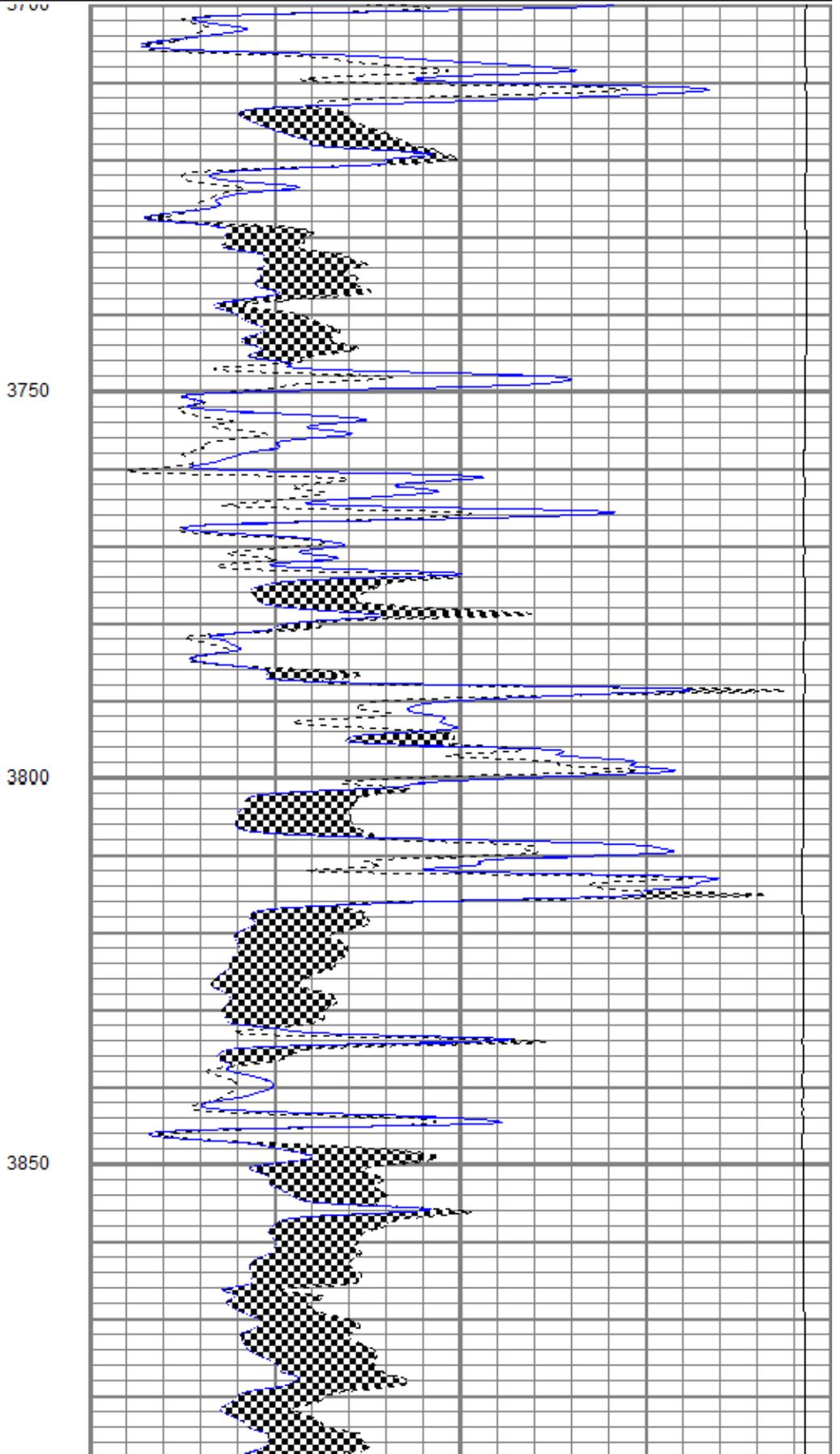
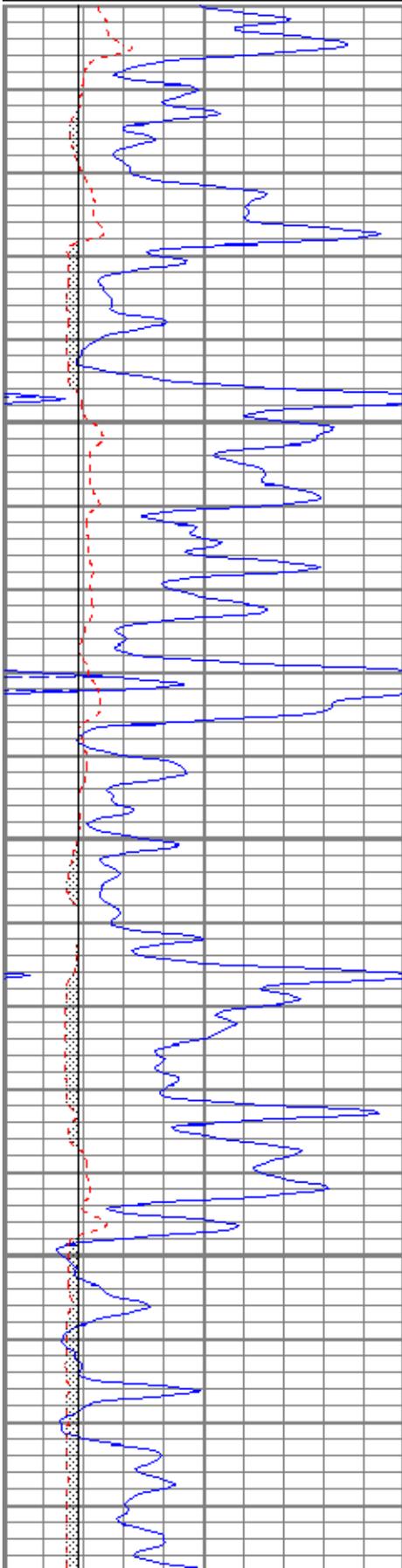


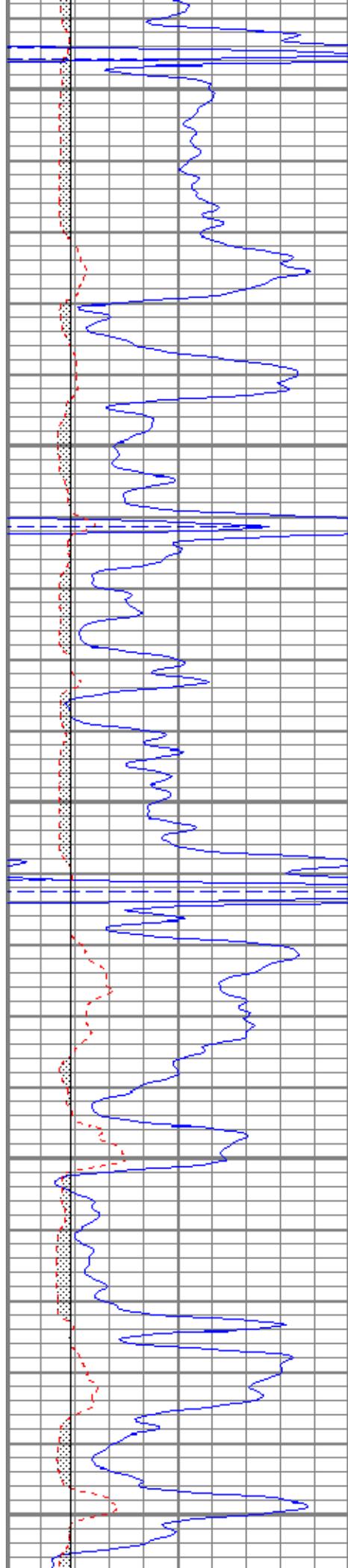
MAIN PASS

Database File rodorothy21-1oh.db
 Dataset Pathname pass4
 Presentation Format kml
 Dataset Creation Mon Oct 30 14:47:59 2017
 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





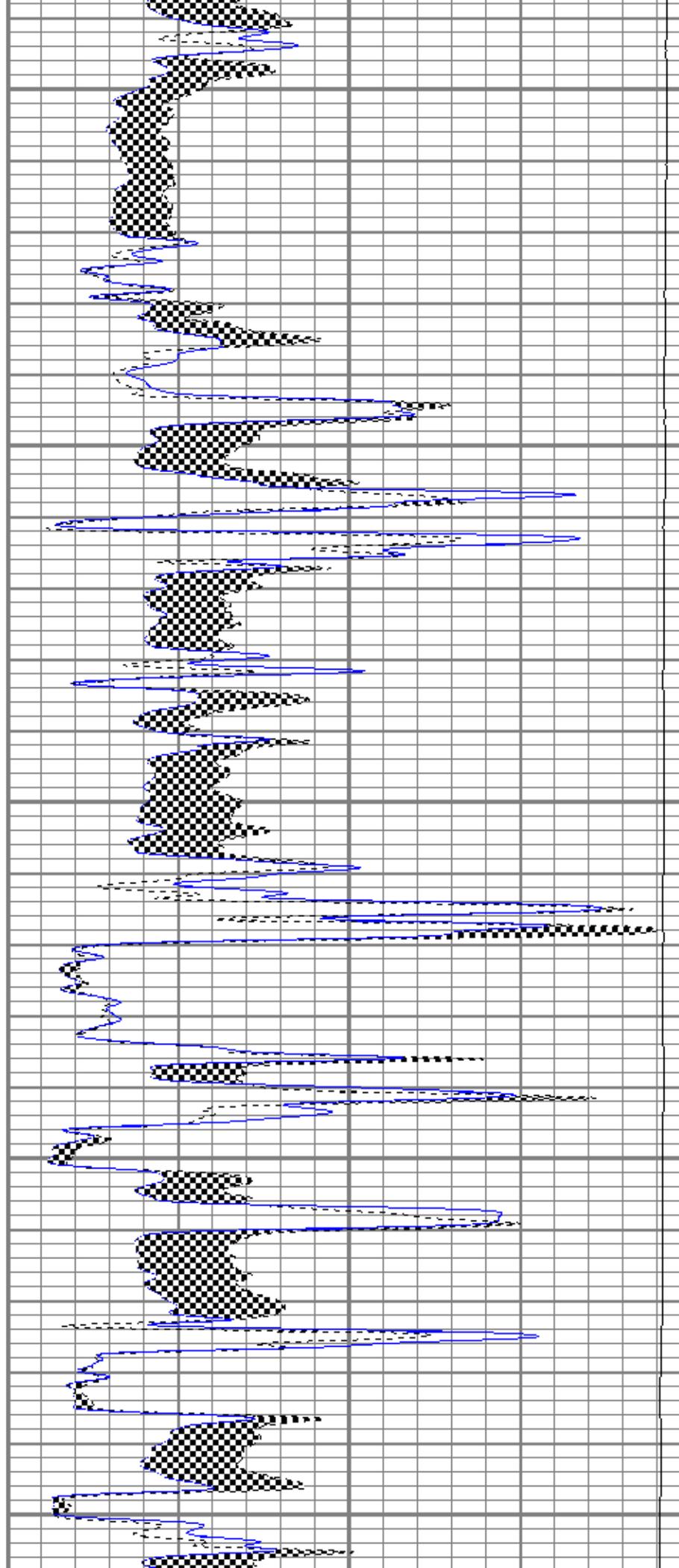
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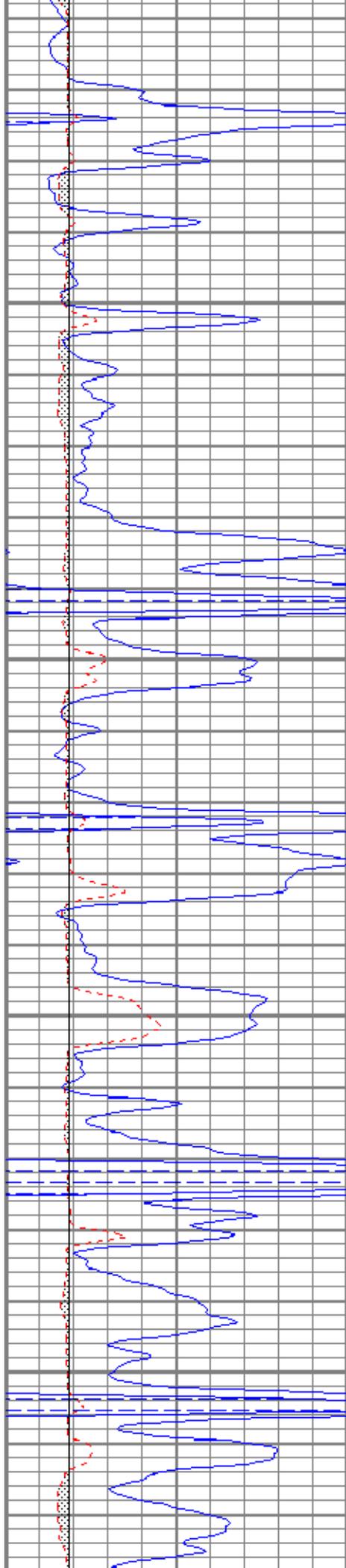
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4050

4100



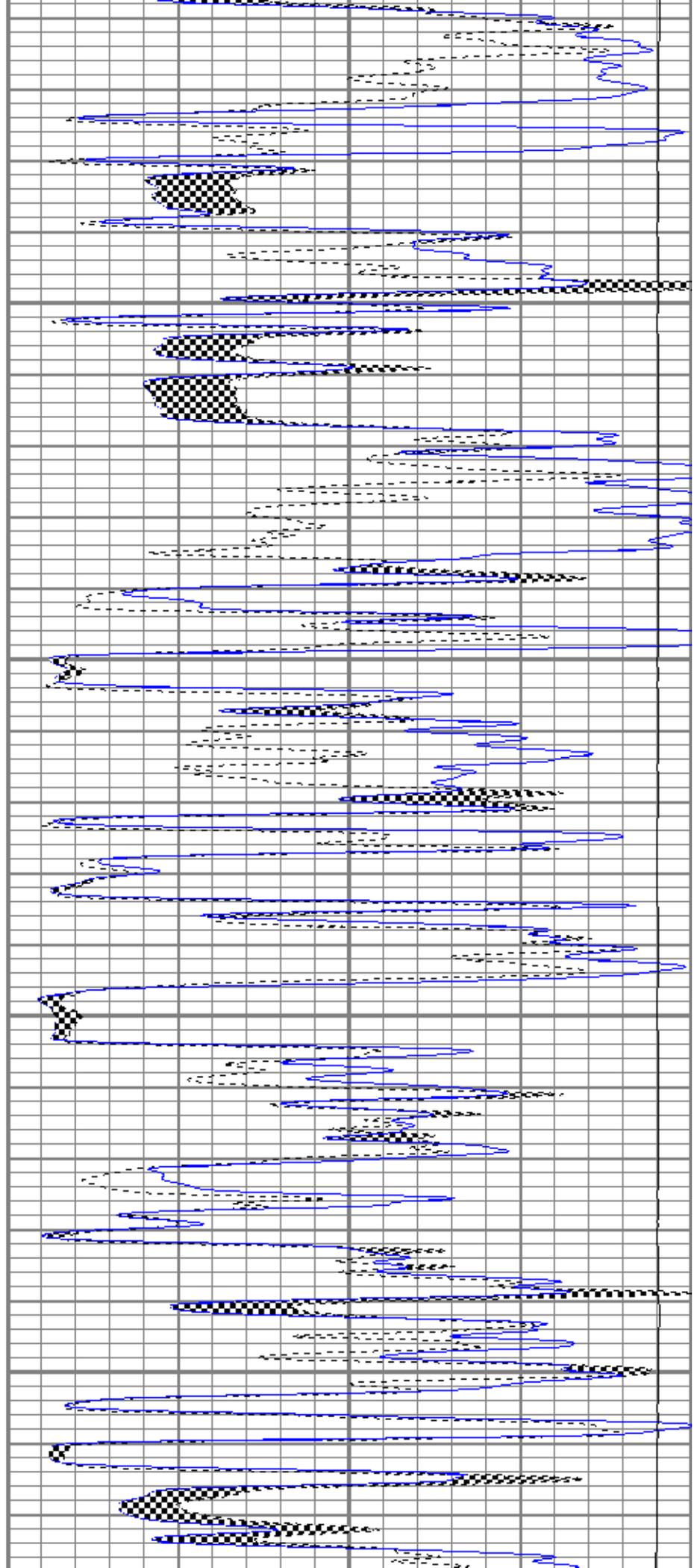


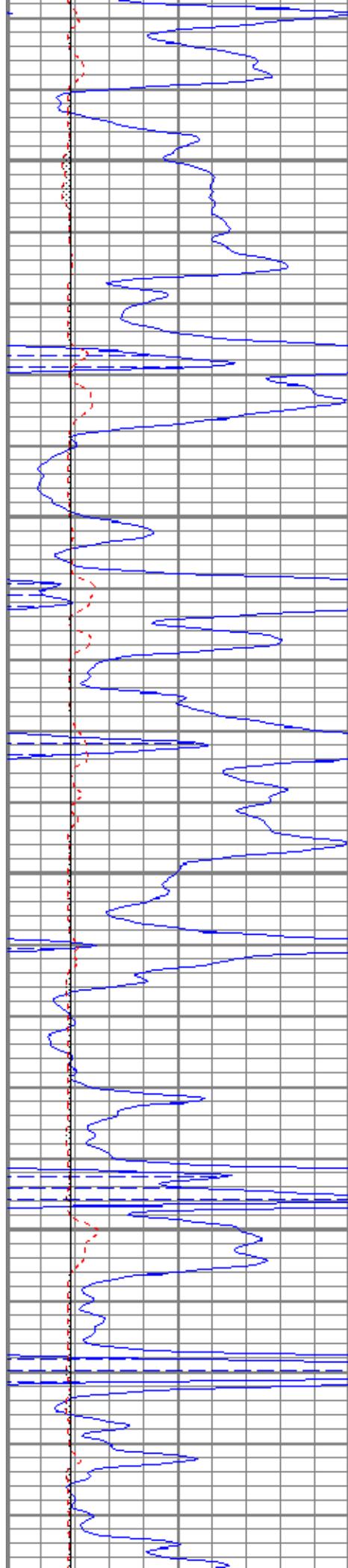
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4200

4250

4300



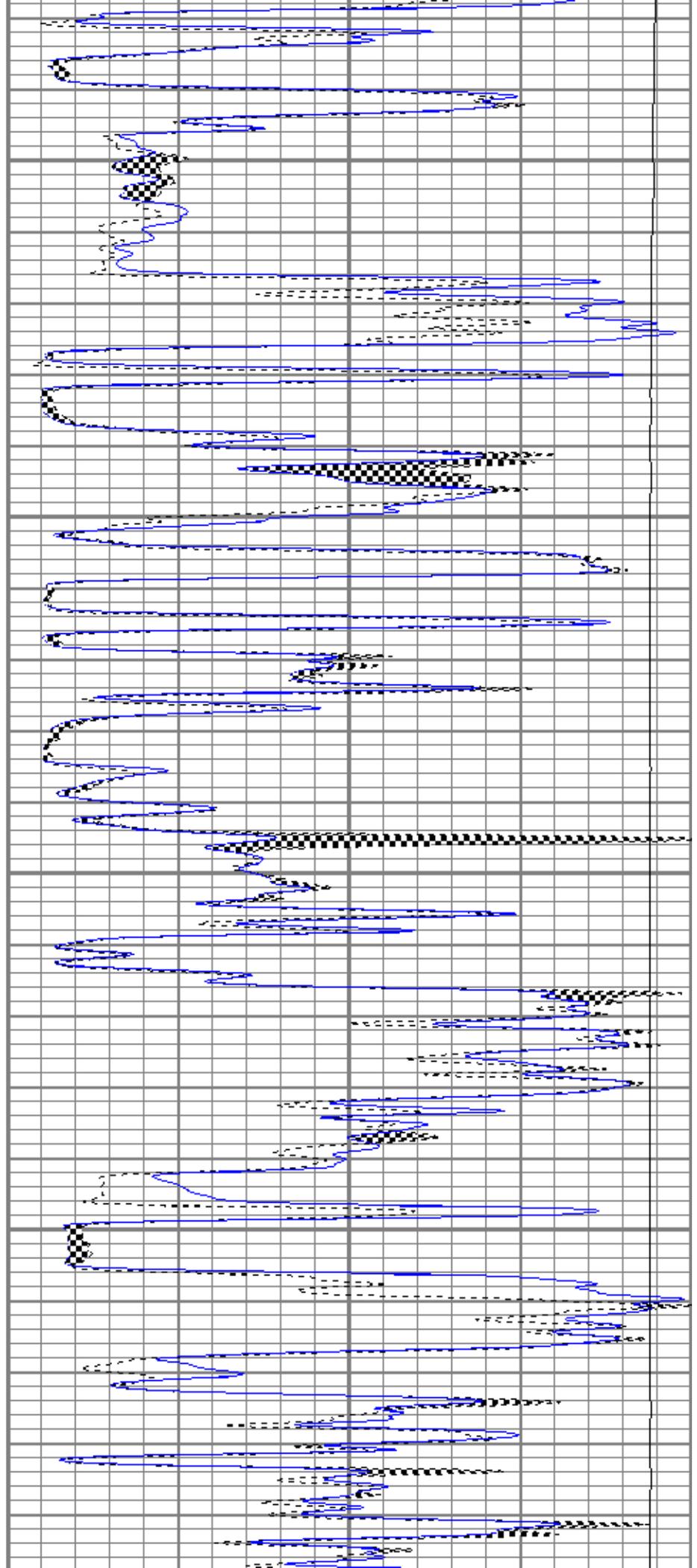


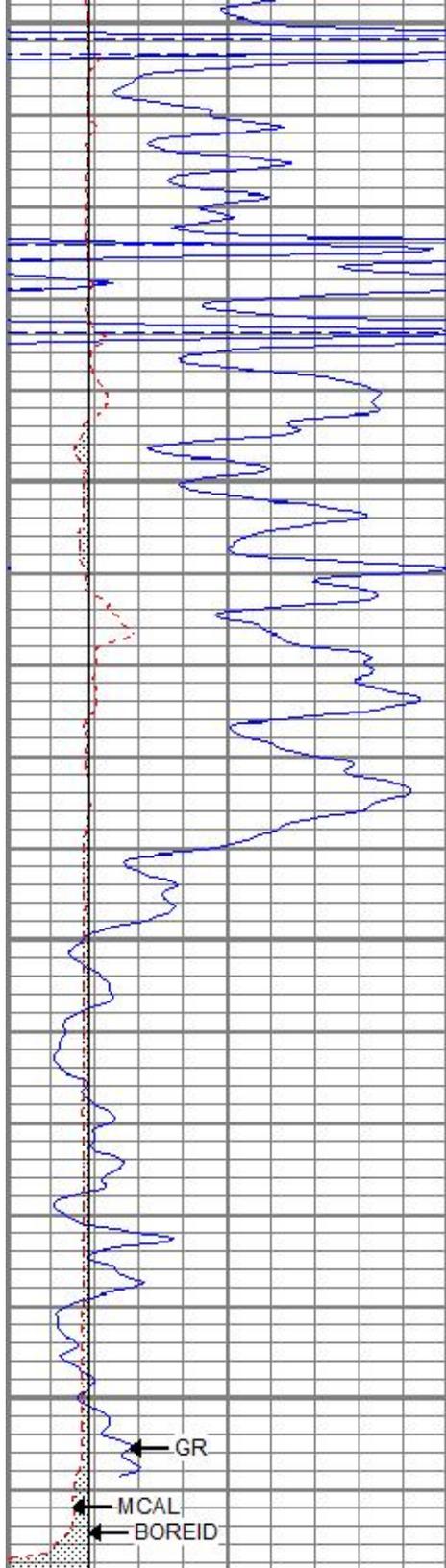
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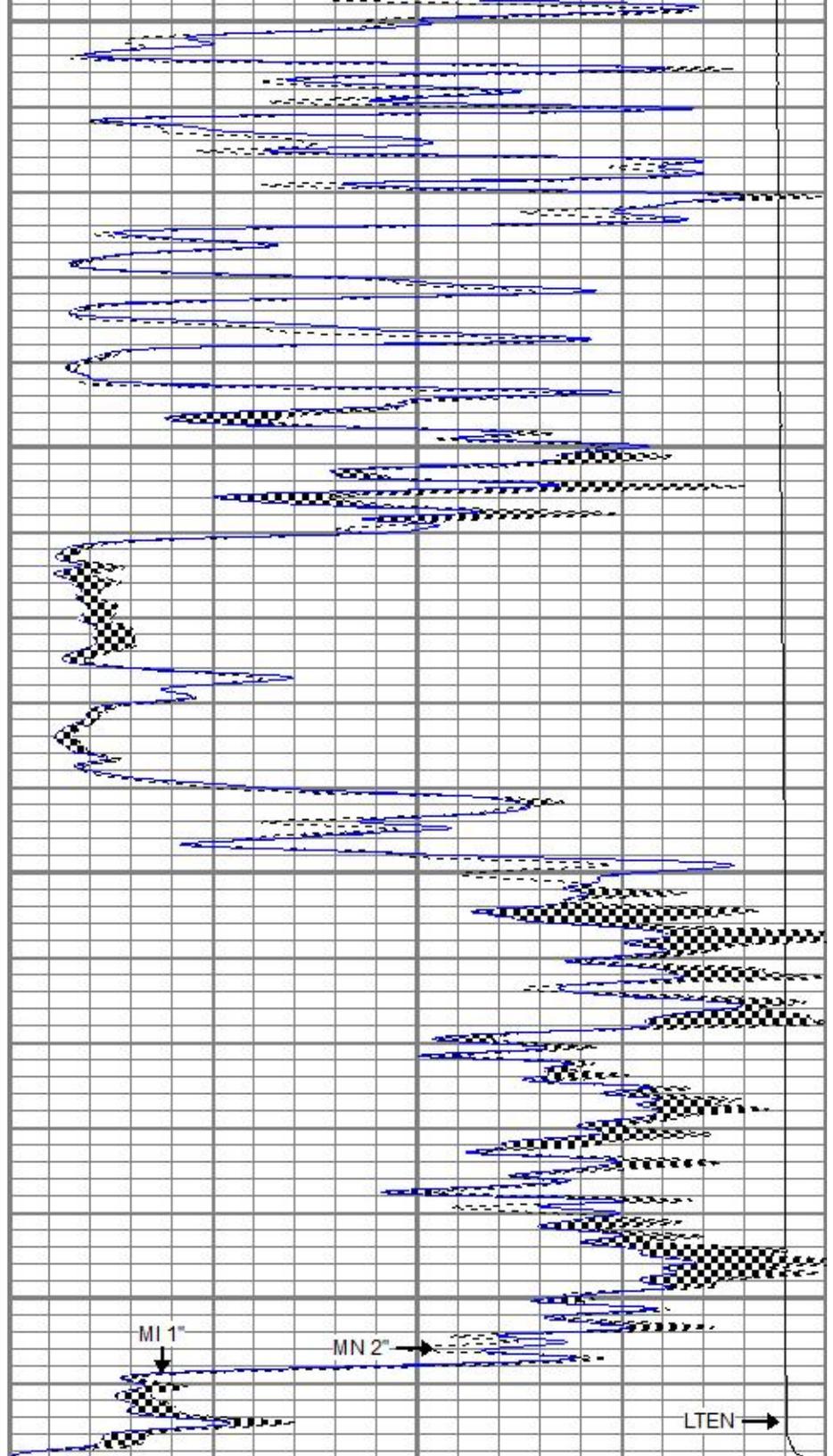
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GR

MCAL

BOREID

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



MI 1"

MN 2"

LTEN

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

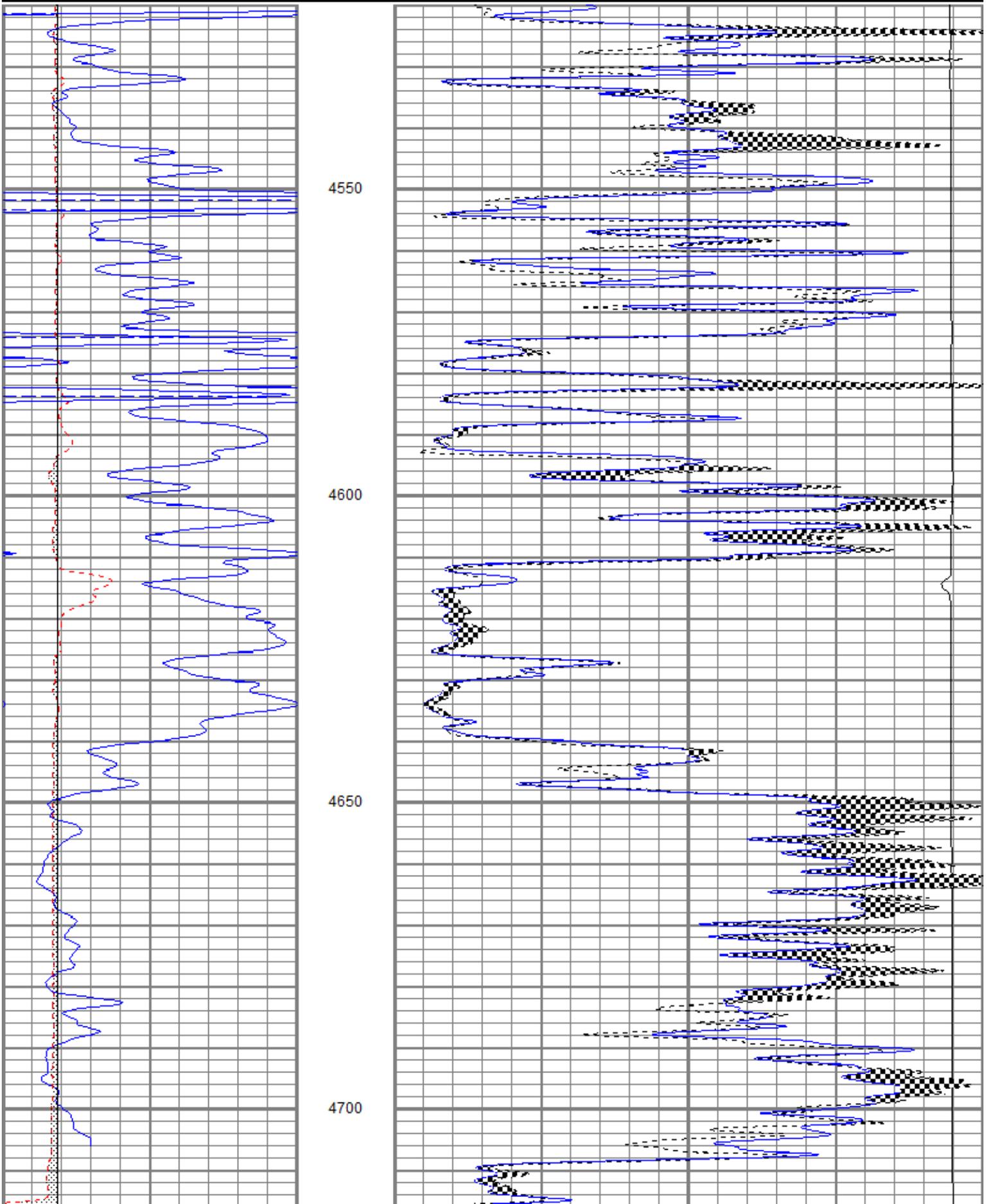


REPEAT SECTION

Database File rodorothy21-1oh.db
 Dataset Pathname pass3.1
 Presentation Format kml

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

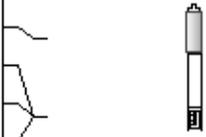


0	GR (GAPI)	150	0	MN 2" (Ohm-m)	20
6	MCAL (in)	16	0	MI 1" (Ohm-m)	20
6	BOREID (in)	16	10000	LTEN (lb)	0

Calibration Report	
Database File	rodorothy21-1oh.db
Dataset Pathname	pass4
Dataset Creation	Mon Oct 30 14:47:59 2017

Microlog Calibration Report								
Serial-Model:			1600-Pengo					
Performed:			Mon Oct 30 14:32:04 2017					
	Readings			References			Results	
	Zero	Cal	V	Zero	Cal		m	b
Normal	-0.0021	0.5905	V	0.0000	10.0000	Ohm-m	16.8745	0.0354
Inverse	-0.0027	0.7584	V	0.0000	8.2000	Ohm-m	10.7741	0.0290
Caliper	1.0301	2.2816	V	6.3000	10.0000	in	2.9566	3.2544

Gamma Ray Calibration Report		
Serial Number:	2001	
Tool Model:	OH	
Performed:	Thu Aug 03 06:10:54 2017	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.8000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	8.13		CHD-None	0.75	1.50	5.00
MCAL	1.30		GR-OH (2001)	3.56	3.25	40.00
MI	1.30		2001			
MN	1.30		ML-Pengo (1600)	6.97	3.50	100.00

Dataset:	rodorothy21-1oh.db: field/well/run1/pass4
Total length:	11.28 ft
Total weight:	145.00 lb
O.D.:	3.50 in