



**MICRO  
RESISTIVITY  
LOG**

Company Patterson Energy  
Well Habiger #2  
Field Bloomer  
County Rice  
State Kansas

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Well Habiger #2  
Field Bloomer  
County Rice State Kansas

Location: API #: 15 159 22883  
900' FNL & 1400' FEL  
SEC 5 TWP 18S RGE 10W  
Permanent Datum Ground Level Elevation 1775'  
Log Measured From KB 8' AGL  
Drilling Measured From KB  
Other Services  
DIL  
CDNL  
Elevation  
K.B. 1783'  
D.F. 1782'  
G.L. 1775.

Date	5/1/22
Run Number	Two
Depth Driller	3500'
Depth Logger	3500'
Bottom Logged Interval	3498'
Top Log Interval	370'
Casing Driller	8 5/8" @ 394'
Casing Logger	394'
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.1/53
pH / Fluid Loss	9.5/9.2
Source of Sample	Pit
Rm @ Meas. Temp	1.2@73degf
Rmf @ Meas. Temp	0.9@73degf
Rmc @ Meas. Temp	1.44@73degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.83@104degf
Time Circulation Stopped	8:00 a.m
Time Logger on Bottom	12:15 p.m
Maximum Recorded Temperature	104degf
Equipment Number	T-605
Location	Hays, KS.
Recorded By	C.Patterson
Witnessed By	Mr. Austin Klaus

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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**

East of Claflin, KS Apporx 4 mi.  
Then South Into Location

Thanks for using Gemini Wireline LLC  
785-625-1182

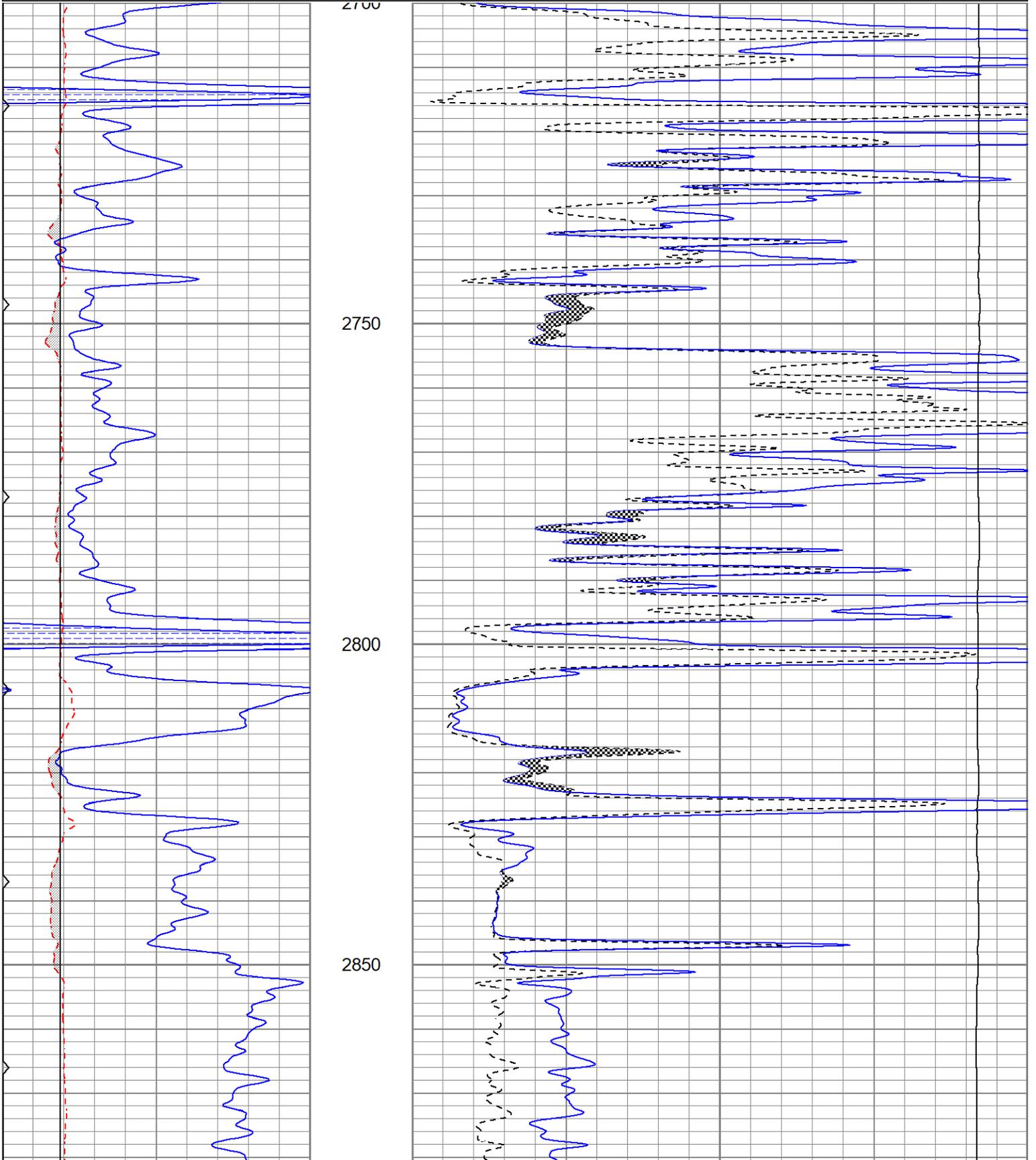


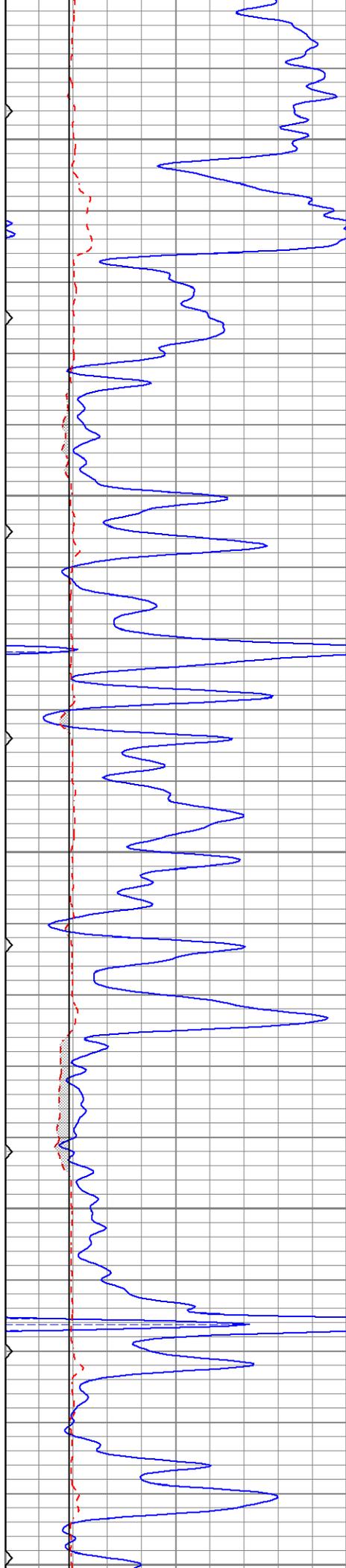
**MAIN PASS**

Database File pehabiger#2oh.db  
 Dataset Pathname pass5.1  
 Presentation Format kml  
 Dataset Creation Sun May 01 12:46:16 2022  
 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





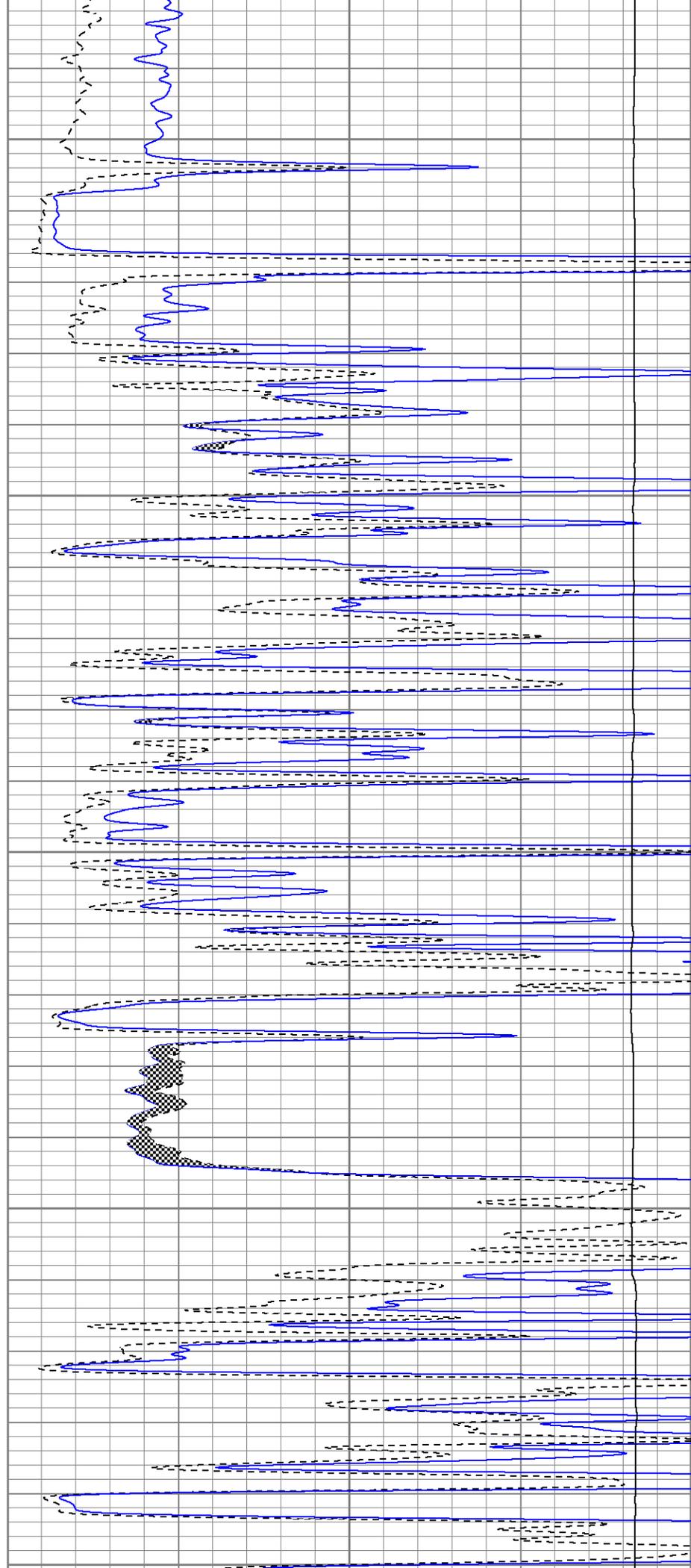
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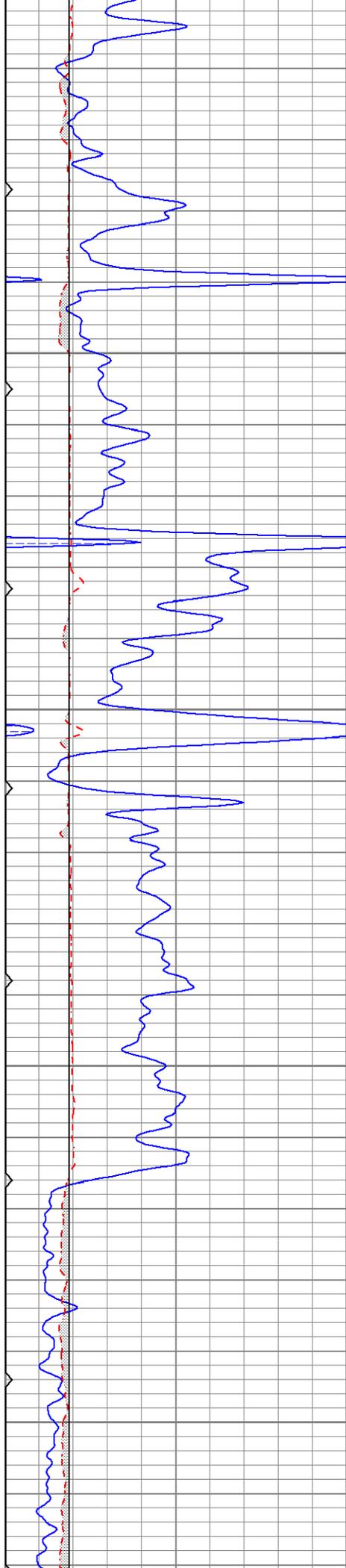
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3000

3050

3100





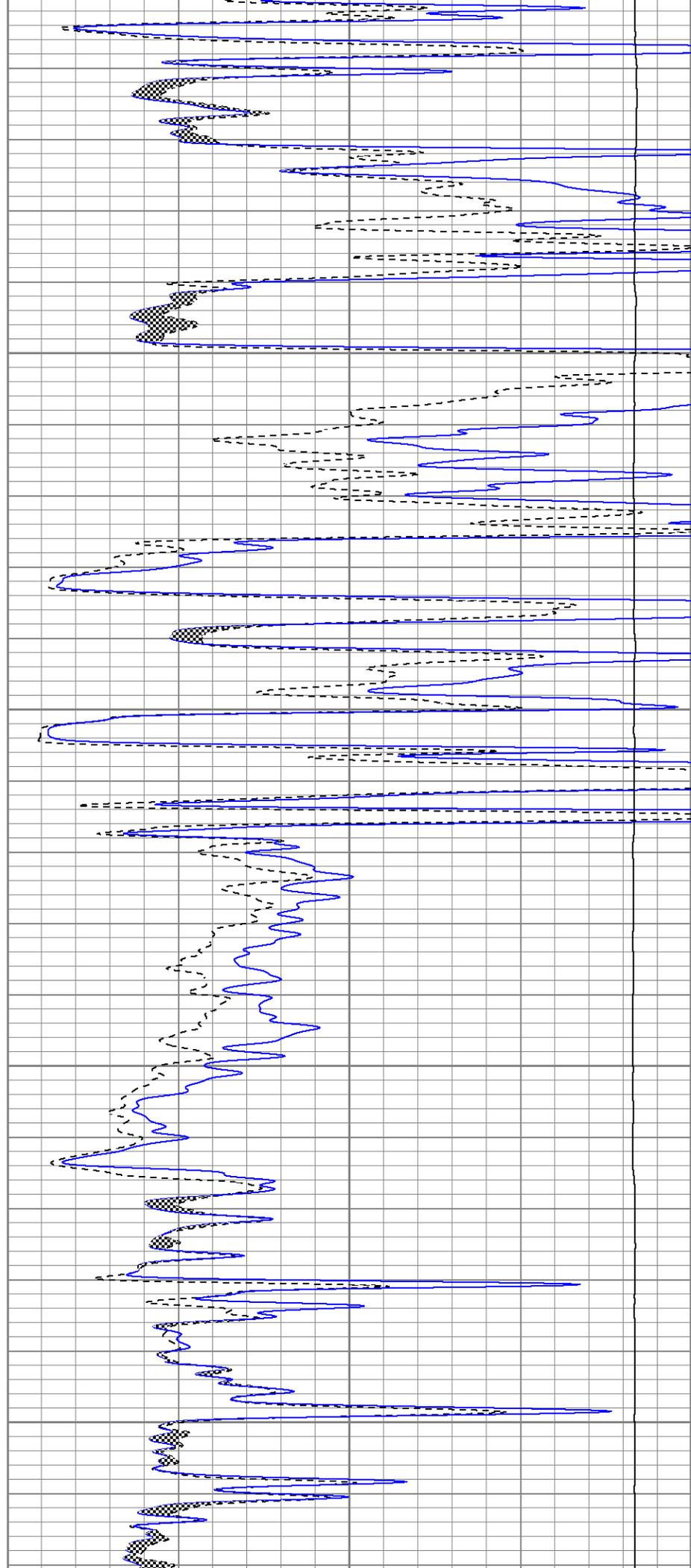
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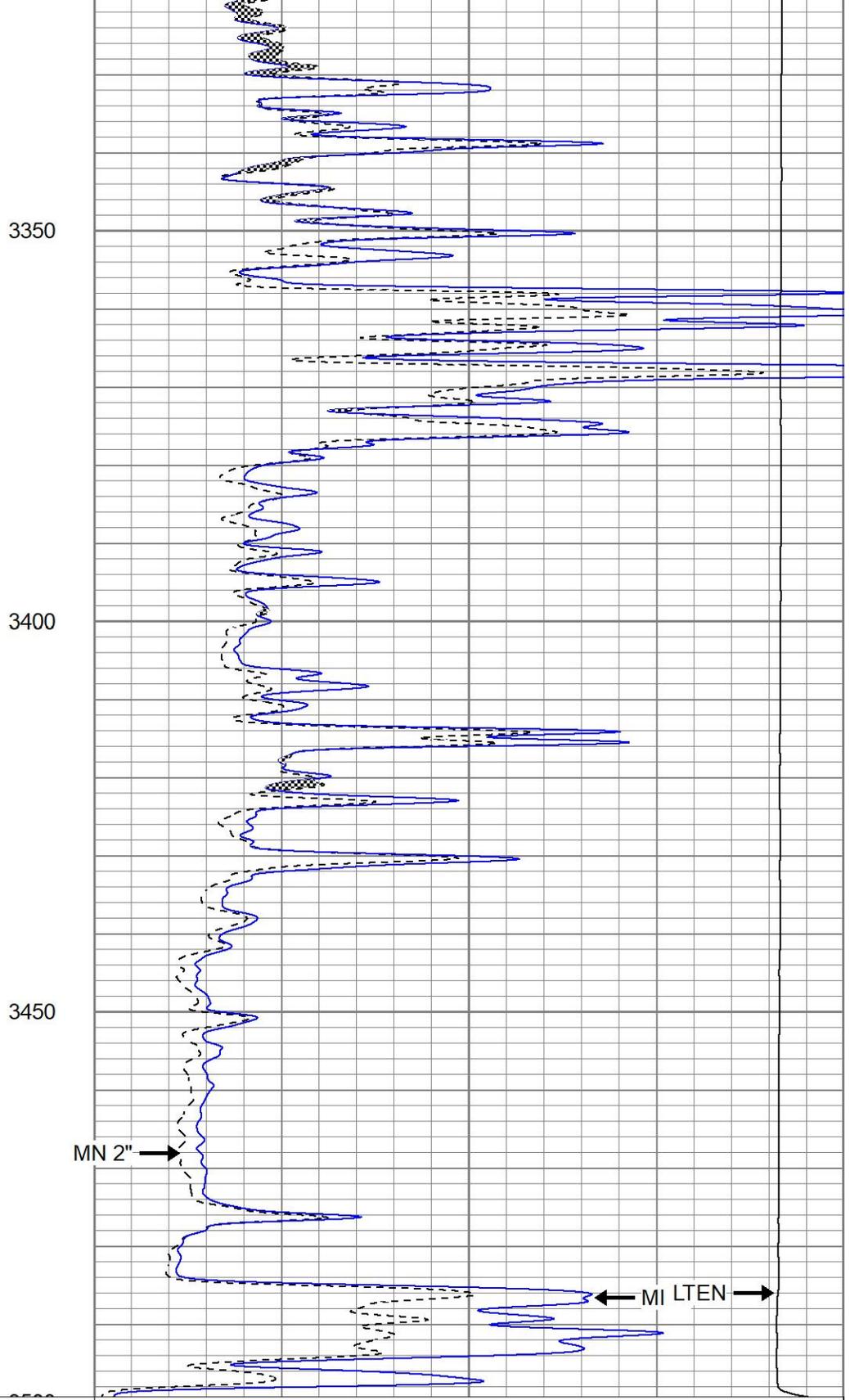
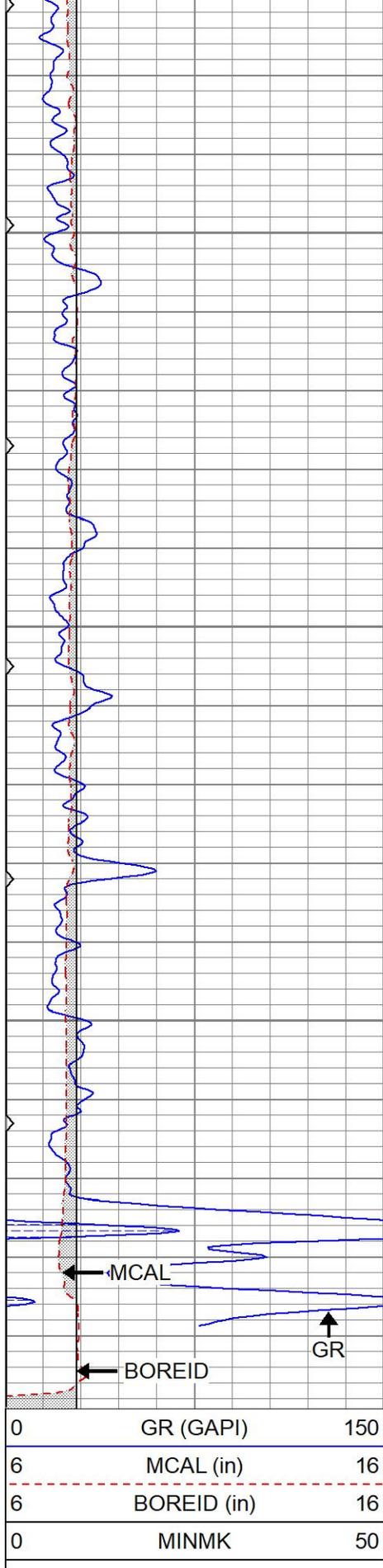
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3200

3250

3300





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

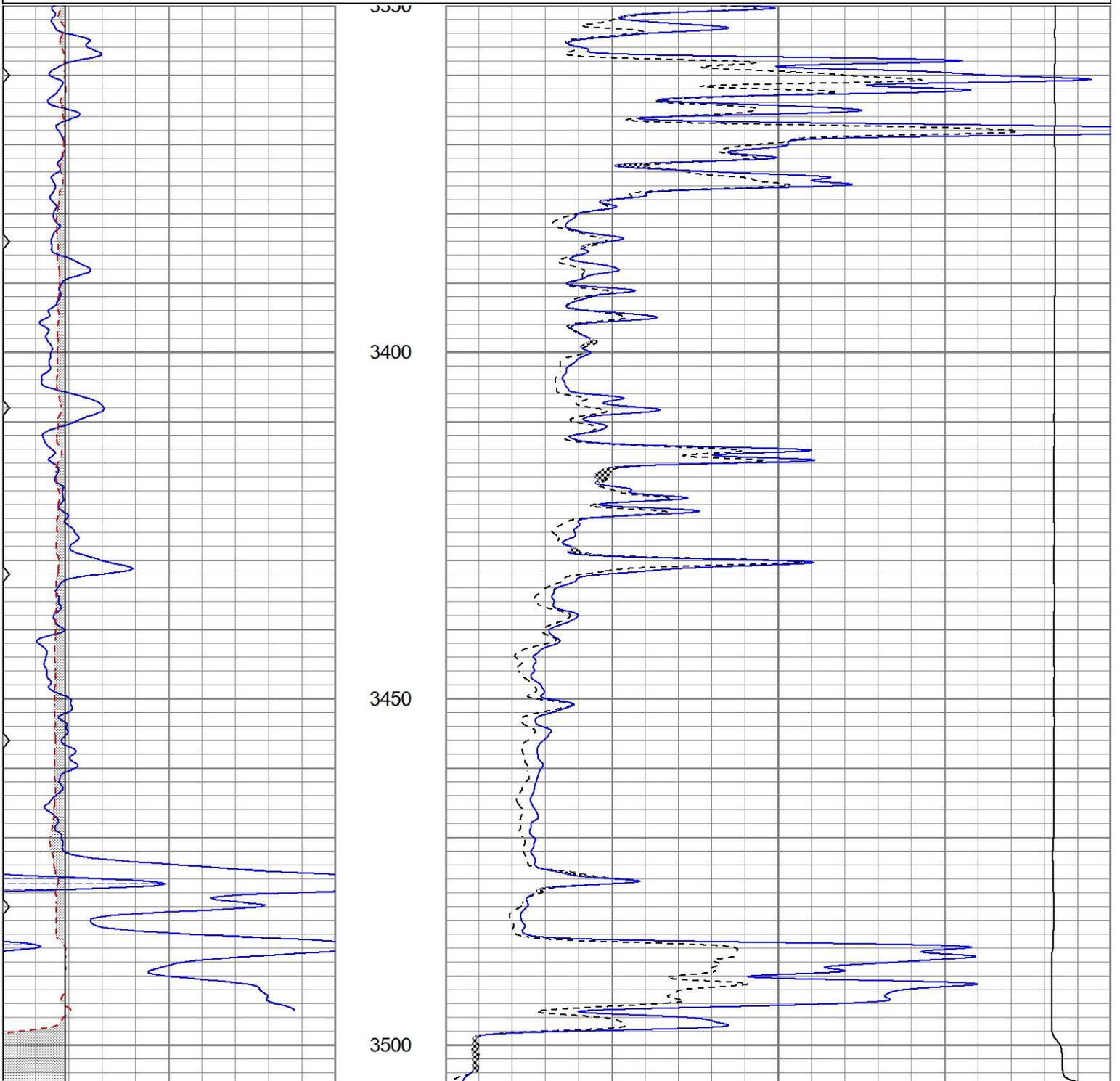


REPEAT SECTION

Database File pehabiger#2oh.db  
 Dataset Pathname pass4.1  
 Presentation Format kml  
 Dataset Creation Sun May 01 12:33:21 2022  
 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



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      pehabiger#2oh.db  
 Dataset Pathname    pass5.1  
 Dataset Creation    Sun May 01 12:46:16 2022

**Microlog Calibration Report**

Serial-Model:                      1600-Pengo  
 Performed:                        Sun May 1 12:05:53 2022

	Readings		V	References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	-0.0101	0.4852	V	0.0000	10.0000	Ohm-m	20.1875	0.2041
Inverse	-0.0351	0.6508	V	0.0000	10.0000	Ohm-m	14.5800	0.5118
Caliper	3.2319	6.4483	V	8.0000	15.0000	in	2.1364	0.9662

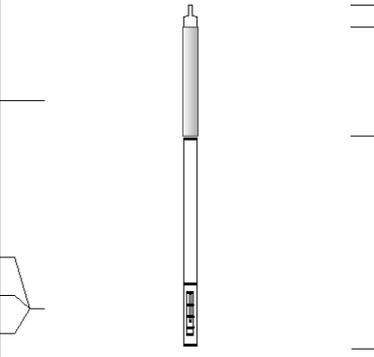
**Gamma Ray Calibration Report**

Serial Number:                      2001  
 Tool Model:                         OH  
 Performed:                         Sat Sep 4 22:48:39 2021

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
			GR-OH (2001) 2001	3.56	3.25	40.00
MCAL	1.30		ML-Pengo (1600)	6.97	3.50	100.00
MI	1.30					
MN	1.30					

Dataset:                              pehabiger#2oh.db: field/well/run1/pass5.1  
 Total length:                        11.28 ft  
 Total weight:                        145.00 lb  
 O.D.:                                  3.50 in