



LITHO DENSITY NEUTRON LOG

Company Palomino Petroleum, Inc.

Well Elza #2

Field Revilo

County Gove

State Kansas

Location:

API #: 15 063 22354

1105' FSL & 1943' FWL

SEC 12 TWP 15S RGE 26W

Permanent Datum Ground Level Elevation 2364'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 2369'
D.F. 2368'
G.L. 2364'

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Date 3-14-19

Run Number One

Depth Driller 4398'

Depth Logger 4403'

Bottom Logged Interval 4381'

Top Log Interval 3500'

Casing Driller 8 5/8" @ 208'

Casing Logger 208'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.2/53

pH / Fluid Loss 10.5/7.2

Source of Sample Pit

Rm @ Meas. Temp 2.4@66degf

Rmf @ Meas. Temp 1.8@66degf

Rmc @ Meas. Temp 2.9@66degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.4@114degf

Time Circulation Stopped 1:00 a.m.

Time Logger on Bottom 4:45 a.m.

Maximum Recorded Temperature 114degf

Equipment Number T-605

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Ryan Seib

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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 Side of Utica, KS to E RD.(Cemetery RD.)
North 8.2 mi.on E RD. (Cemetery RD/ GO 82 at correction)
West into location Through Cattle Guard, go past Tank Batteries Through 2nd Cattle Guard
Keep going West

Thanks for using Gemini Wireline LLC
785-625-1182

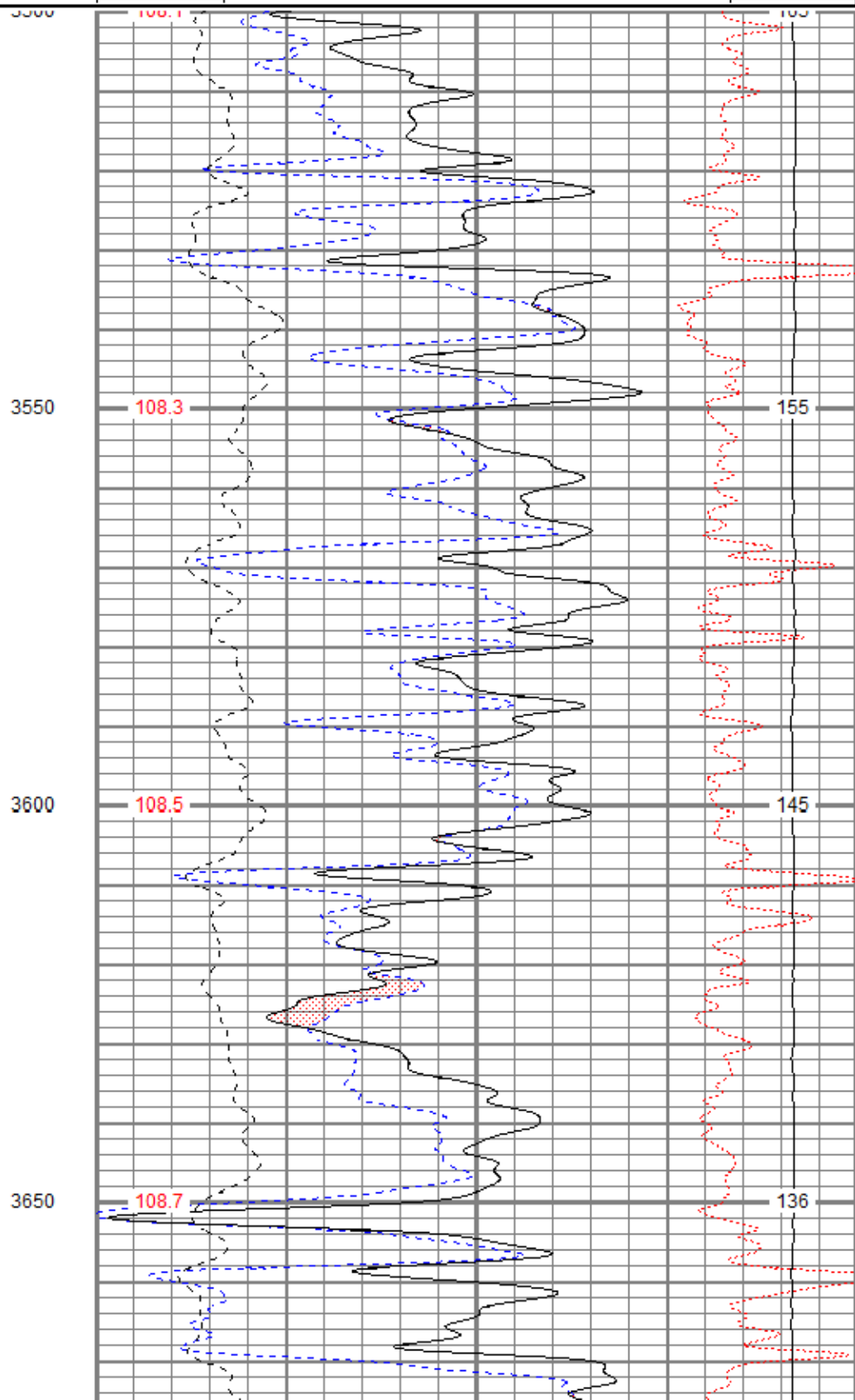
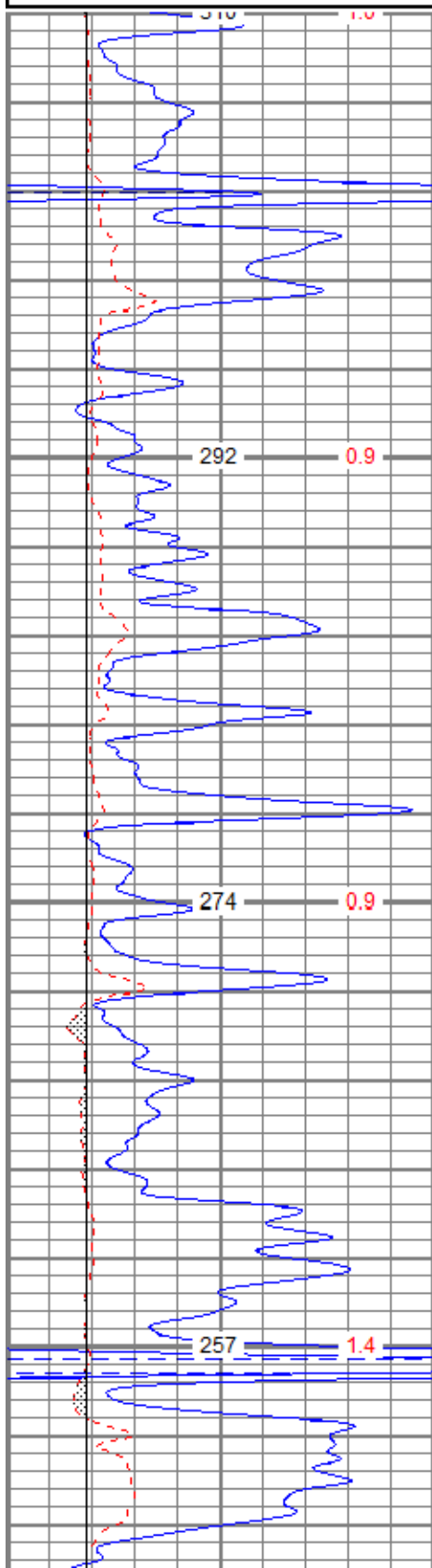


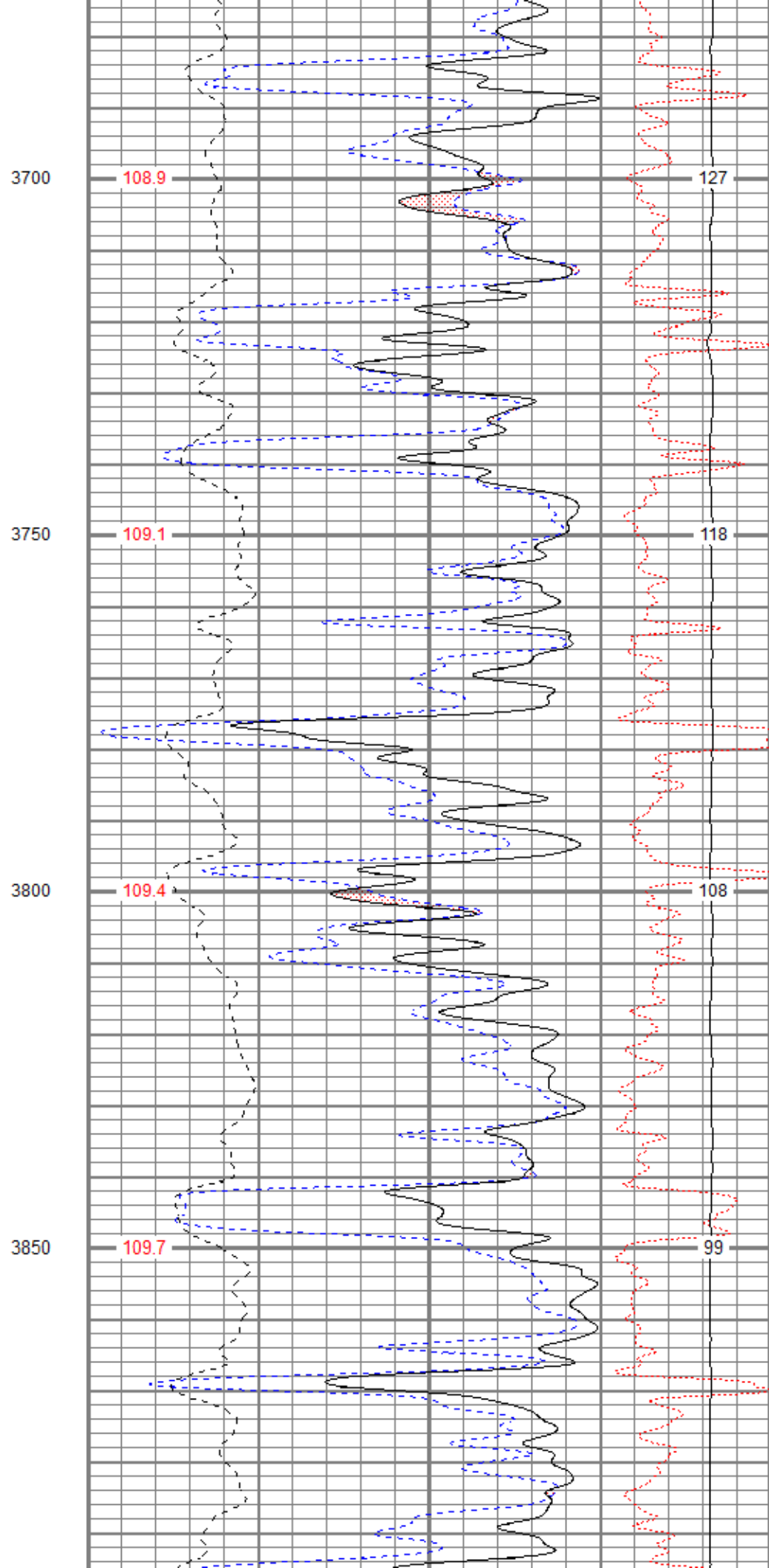
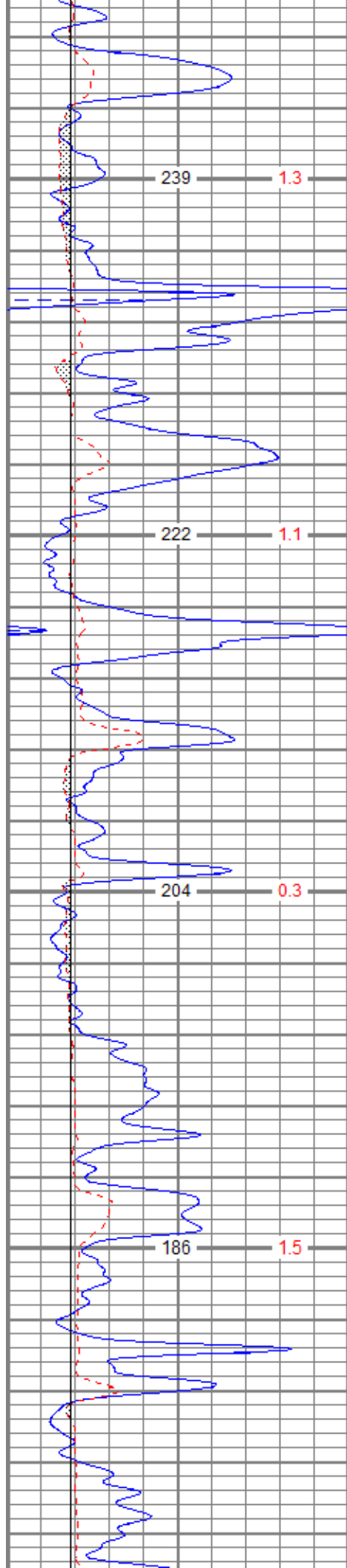
MAIN PASS

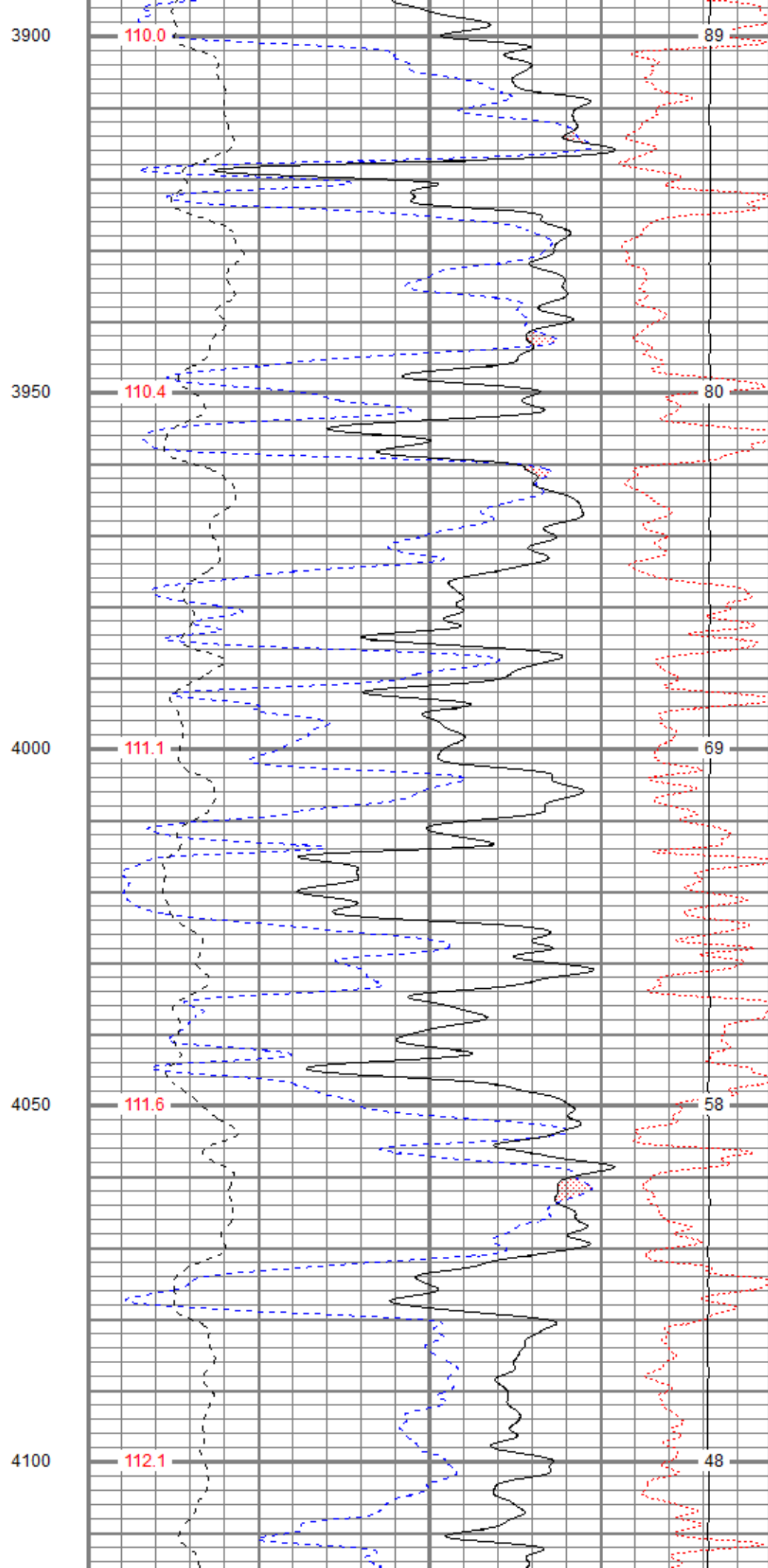
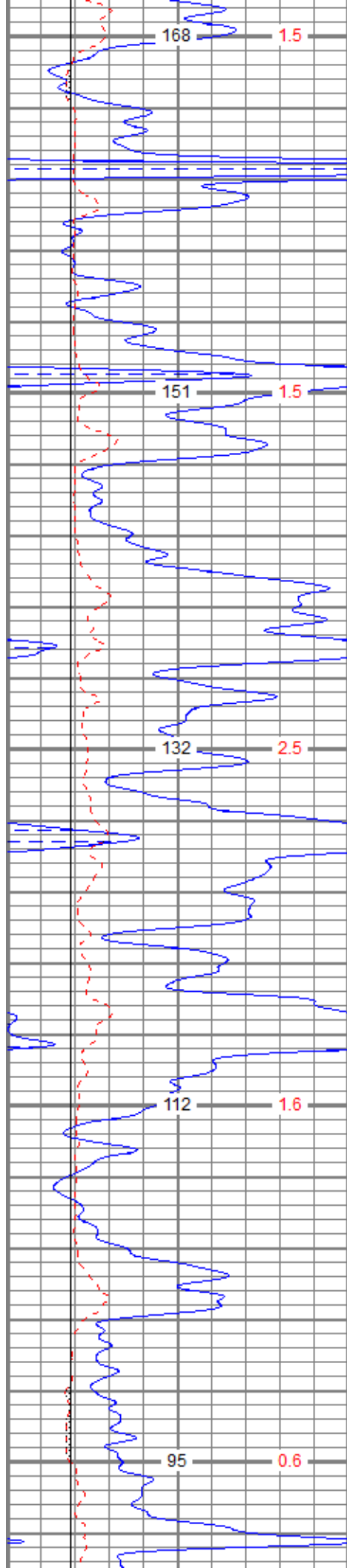
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 Dataset Pathname pass2
 Presentation Format digital_kcdnl
 Dataset Creation Thu Mar 14 04:57:22 2019
 Charted by Depth in Feet scaled 1:240

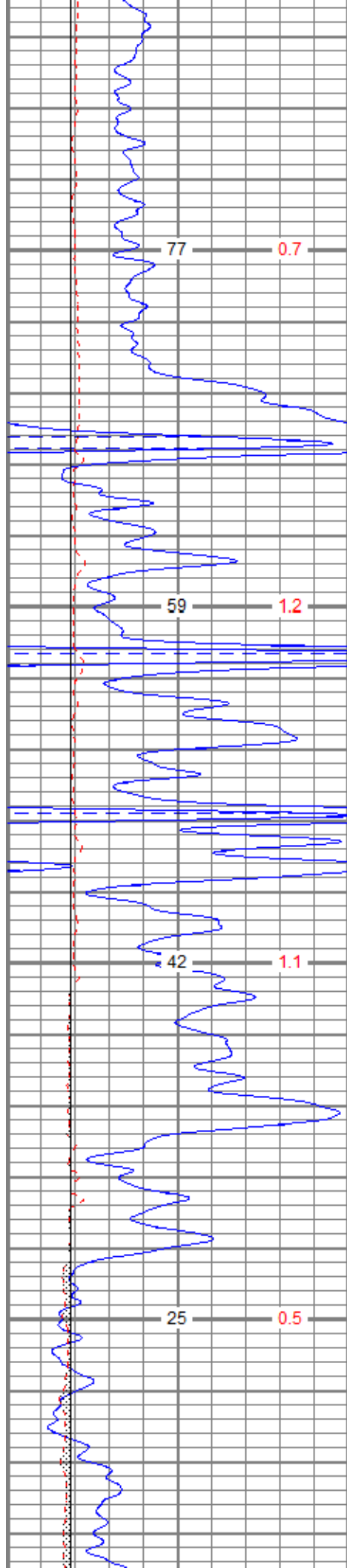
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

30		NPOR (pu)		-10	
30		DPOR (pu)		-10	
70		DPOR (pu)		30	
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP (degF)		8000	LTEN (lb)		0
					ABHV (ft3)







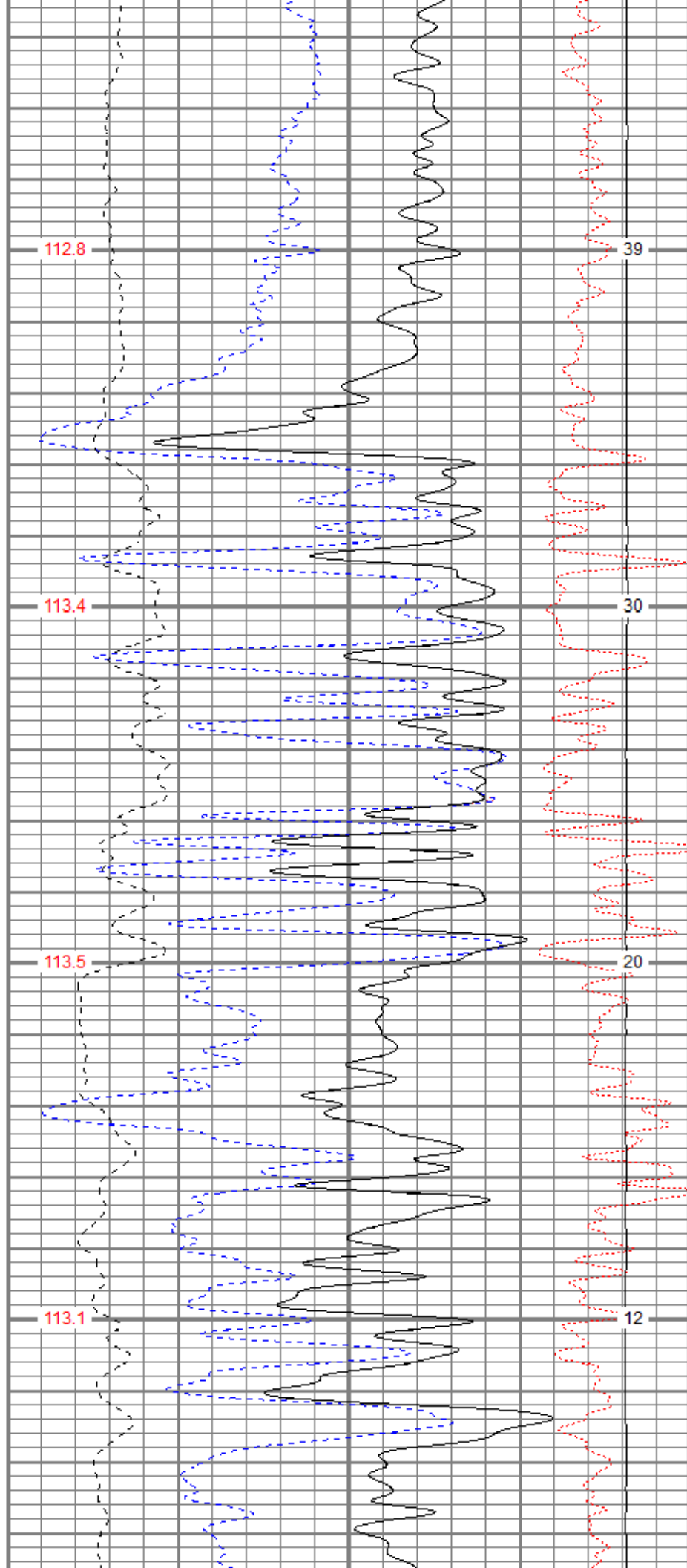


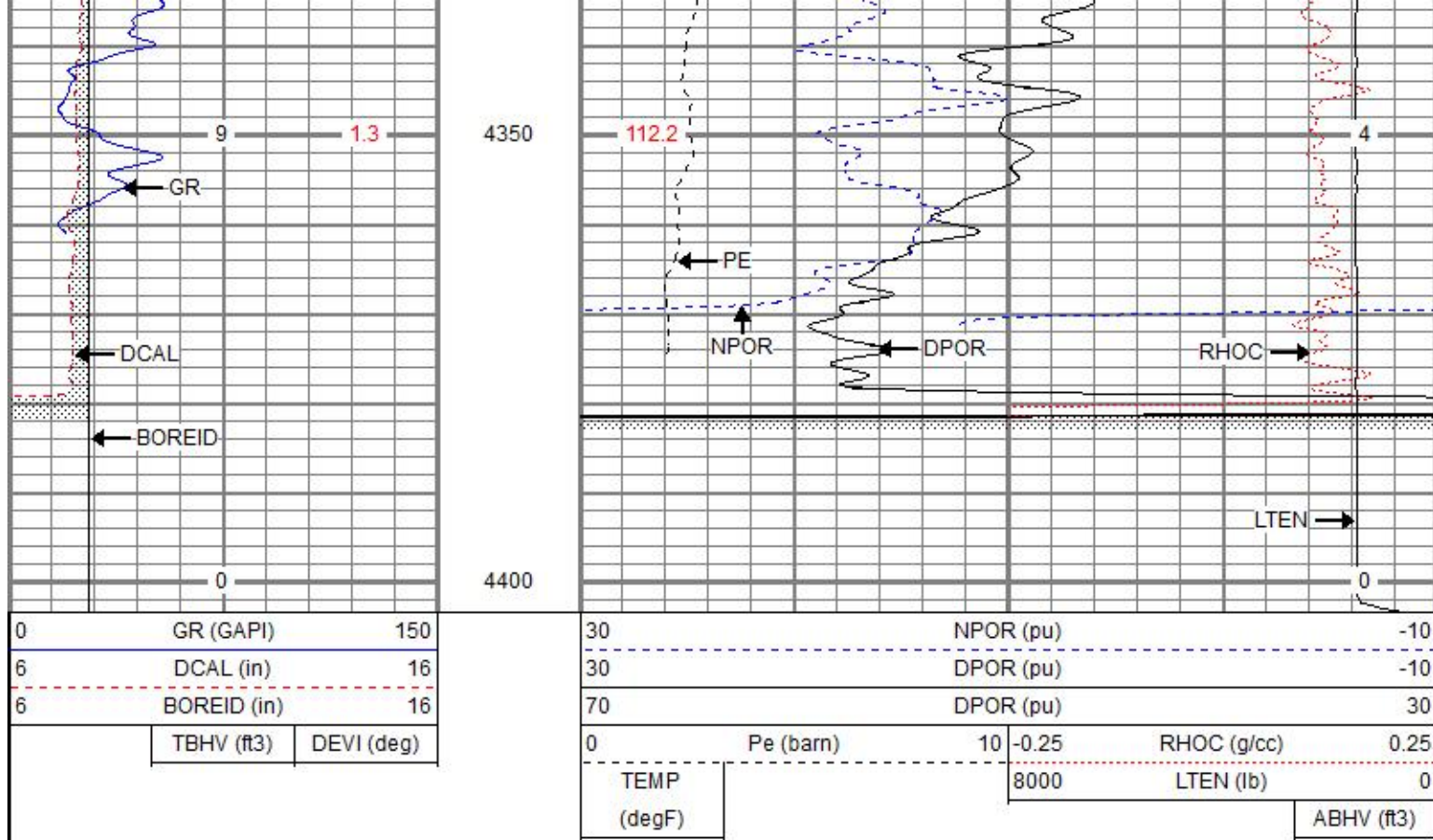
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4200

4250

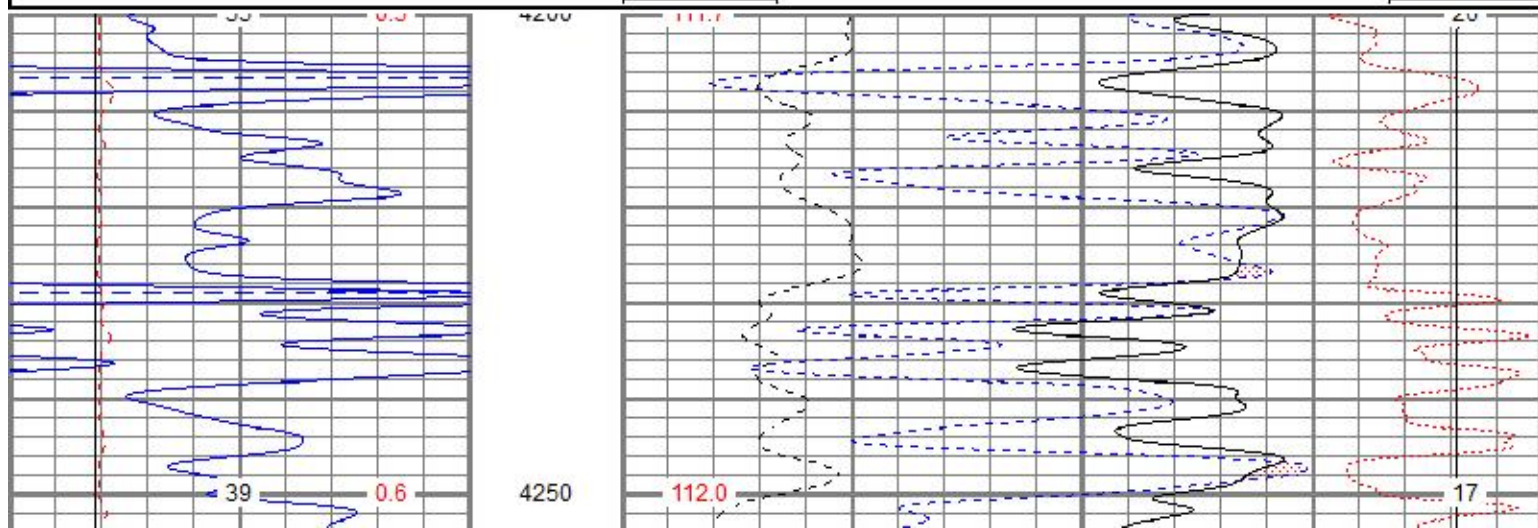
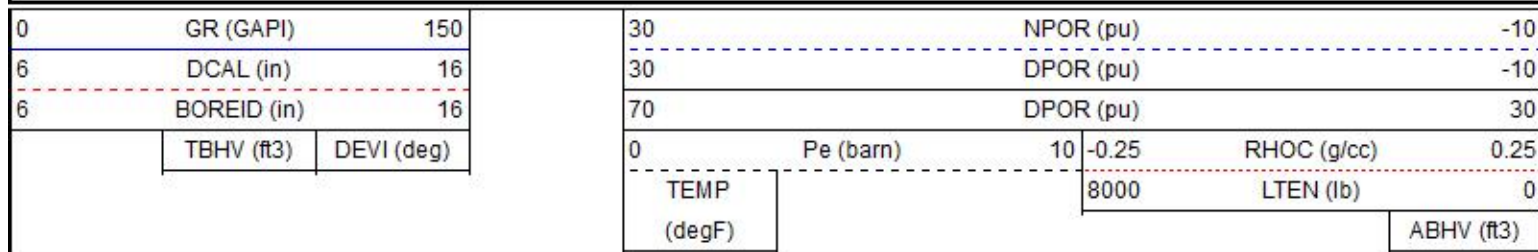
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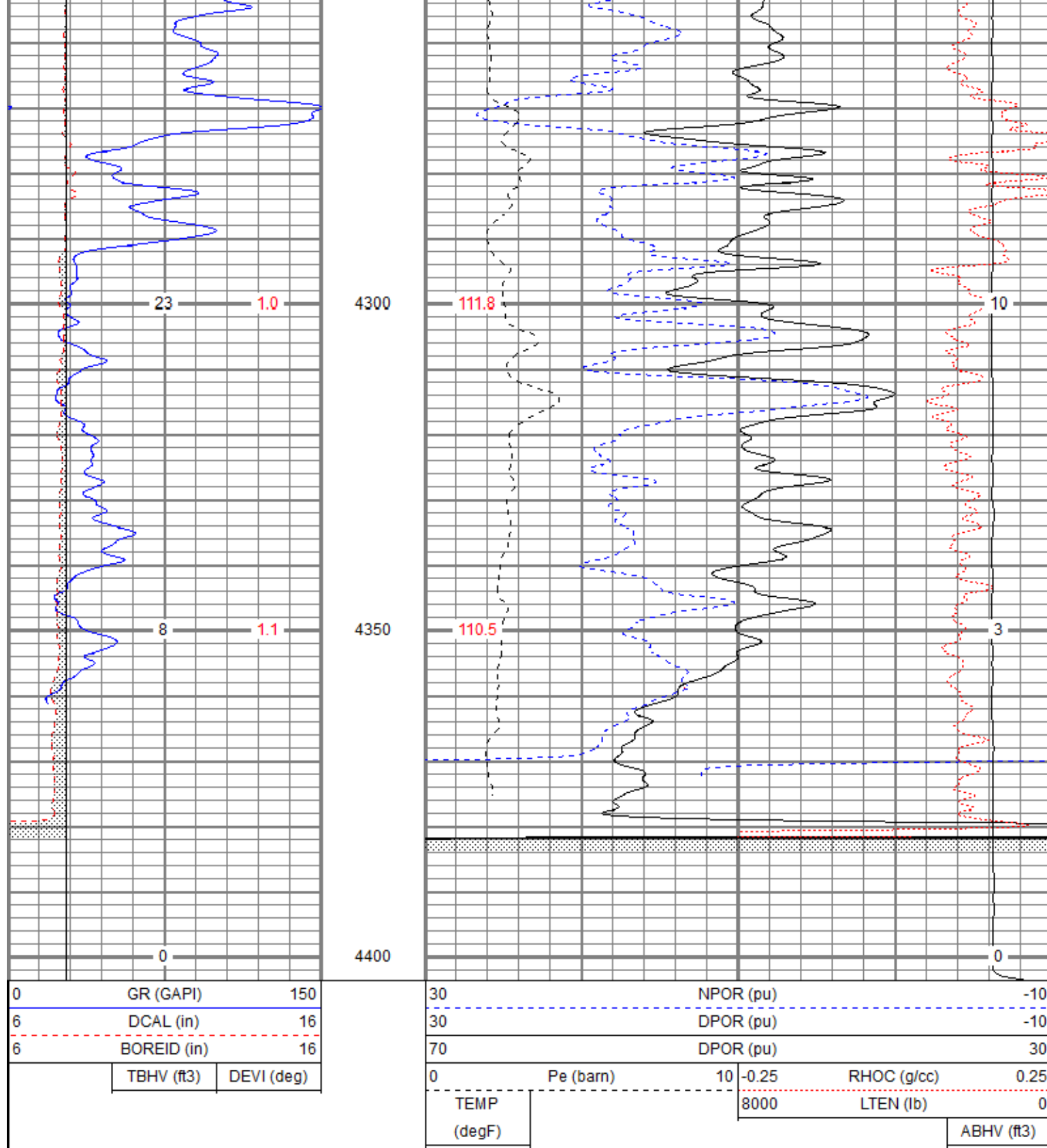




REPEAT SECTION

Database File ppelza#2.db
 Dataset Pathname pass1
 Presentation Format digital_kcdnl
 Dataset Creation Thu Mar 14 04:44:34 2019
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File ppelza#2.db
 Dataset Pathname pass2
 Dataset Creation Thu Mar 14 04:57:22 2019

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Tue Jan 22 08:45:42 2019
 Downhole Cal Performed: Tue Jan 22 08:46:17 2019
 After Survey Verification Performed: Tue Jan 22 08:46:17 2019

Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	547.166	-1.056
Medium	0.004	0.724	V	0.000	425.000	mmho/m	590.216	-2.564
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.642	V	0.000	350.000	mmho/m	547.349	-1.170
Medium	0.004	0.725	V	0.000	550.000	mmho/m	763.497	-3.249

Downhole Calibration								
Readings			References				Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.089	349.955	mmho/m	0.113	349.997	mmho/m	1.000	0.024
Medium	-0.171	400.157	mmho/m	-0.049	400.115	mmho/m	1.000	0.122
Shallow	2.429	0.011	V	500.000	2.000	Ohm-m	200.929	0.282

After Survey Verification								
Readings			Targets				Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.089	349.955	mmho/m	1.000	0.024
Medium	0.000	0.000	mmho/m	-0.171	400.157	mmho/m	1.000	0.122
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

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Neutron Calibration Report								
Serial Number:			AD5139					
Tool Model:			ADMY5139					
Performed:			(Not Performed)					
Calibrator Value:			1	NAPI				
Calibrator Reading:			1	cps				
Sensitivity:			1	NAPI/cps				

Temperature Calibration Report								
Serial Number:			WithMC					
Tool Model:			WMC					
Performed:			Wed Dec 05 04:54:01 2018					
			Reference			Reading		
Low Reference:			0.00	degF		0.00	degF	
High Reference:			1.00	degF		1.00	degF	
Gain:			1.00					
Offset:			0.00					
Delta Spacing			1					

Inclinometer Calibration Report								
Performed:			Wed Dec 05 04:53:48 2018					
			Low Read.	High Read.		Low Ref.	High Ref.	
X Accelerometer			205.00	1843.00		-1.00	1.00	gee
Y Accelerometer			205.00	1843.00		-1.00	1.00	gee

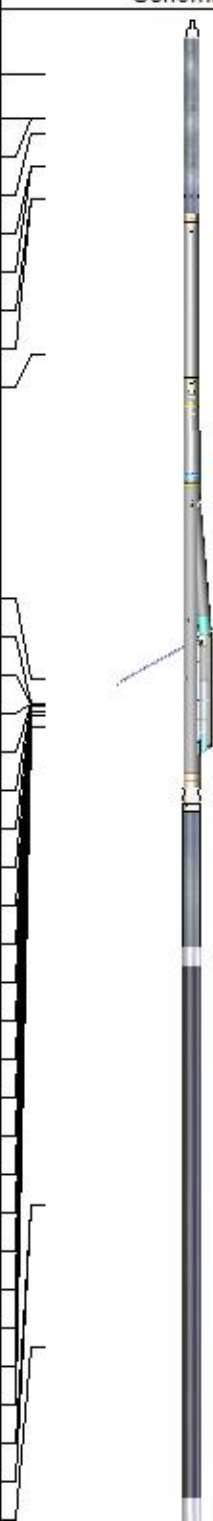
Gamma Ray Calibration Report

Serial Number: WithMC
 Tool Model: WMC
 Performed: Wed Dec 05 04:58:30 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD-STD	0.50	1.69	1.00
GR	40.07					
ACCY	38.91		ADT-WMC (WithMC)	4.58	3.50	120.00
ACCX	38.91		Admyr Telemetry With Mudcell			
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-ADMY5139 (AD5139)	5.65	3.50	50.00
TEMP	36.82		Admyer NEU DIGITAL			
NEU	32.76					
LStat	24.30		ADT1LITH-A (1)	9.29	3.50	240.00
LS8	23.64		Admyr Litho Density Tool			
LS7	23.64					
LS6	23.64					
LS5	23.64					
LS4	23.64					
LS3	23.64					
LS2	23.64					
LS1	23.64					
LSV	23.64					
LSD	23.62					
SSV	23.43					
SS8	23.43					
SS7	23.43					
SS6	23.43					
SS5	23.43					
SS4	23.43		DIL-G (5375)	21.47	4.00	345.00
SS3	23.43		Gearhart			
SS2	23.43					
SS1	23.43					
DCAL	23.37					
SSD	23.04					
SP	10.60					
CILD	10.60					
CILM	6.89					

CLEM	0.00				
RLL3	1.70				
TR_Mon	0.00				
Dataset: ppelza#2.db: field/well/run1/pass2 Total length: 41.49 ft Total weight: 756.00 lb O.D.: 4.00 in					