



COMPENSATED DENSITY NEUTRON/PE LOG

Company Palomino Petroleum		Company Palomino Petroleum	
Well	Laird #1	Well	Laird #1
Field	Revilo	Field	Revilo
County	Trego	County	Trego
State	Kansas	State	Kansas
Location:		API #: 15 195 23008	
SEC 18 TWP 15S RGE 25W		1672' FNL & 465' FWL	
Permanent Datum	Ground Level	Elevation	2378'
Log Measured From	KB 11' AGL		
Drilling Measured From	KB		
Other Services		Elevation	
DIL		K.B. 2389'	
ML		D.F. 2388'	
		G.L. 2378'	
Date	9-13-16		
Run Number	One		
Depth Driller	4430'		
Depth Logger	4430'		
Bottom Logged Interval	4407'		
Top Log Interval	3500'		
Casing Driller	8 5/8" @ 222'		
Casing Logger	222'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/60		
pH / Fluid Loss	11.5/6.8		
Source of Sample	Pit		
Rm @ Meas. Temp	2.6@60degf		
Rmf @ Meas. Temp	1.95@60degf		
Rmc @ Meas. Temp	3.12@60degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.36@114degf		
Time Circulation Stopped	10:45 p.m.		
Time Logger on Bottom	1:00 a.m.		
Maximum Recorded Temperature	114degf		
Equipment Number	T127		
Location	Hays, KS		
Recorded By	Gus Pfannenstiel		
Witnessed By	Mr. Andrew Stenzel		

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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

Thanks for using Gemini Wireline LLC
785-625-1182

East of Utica to Rd. E, North 8 miles East into.

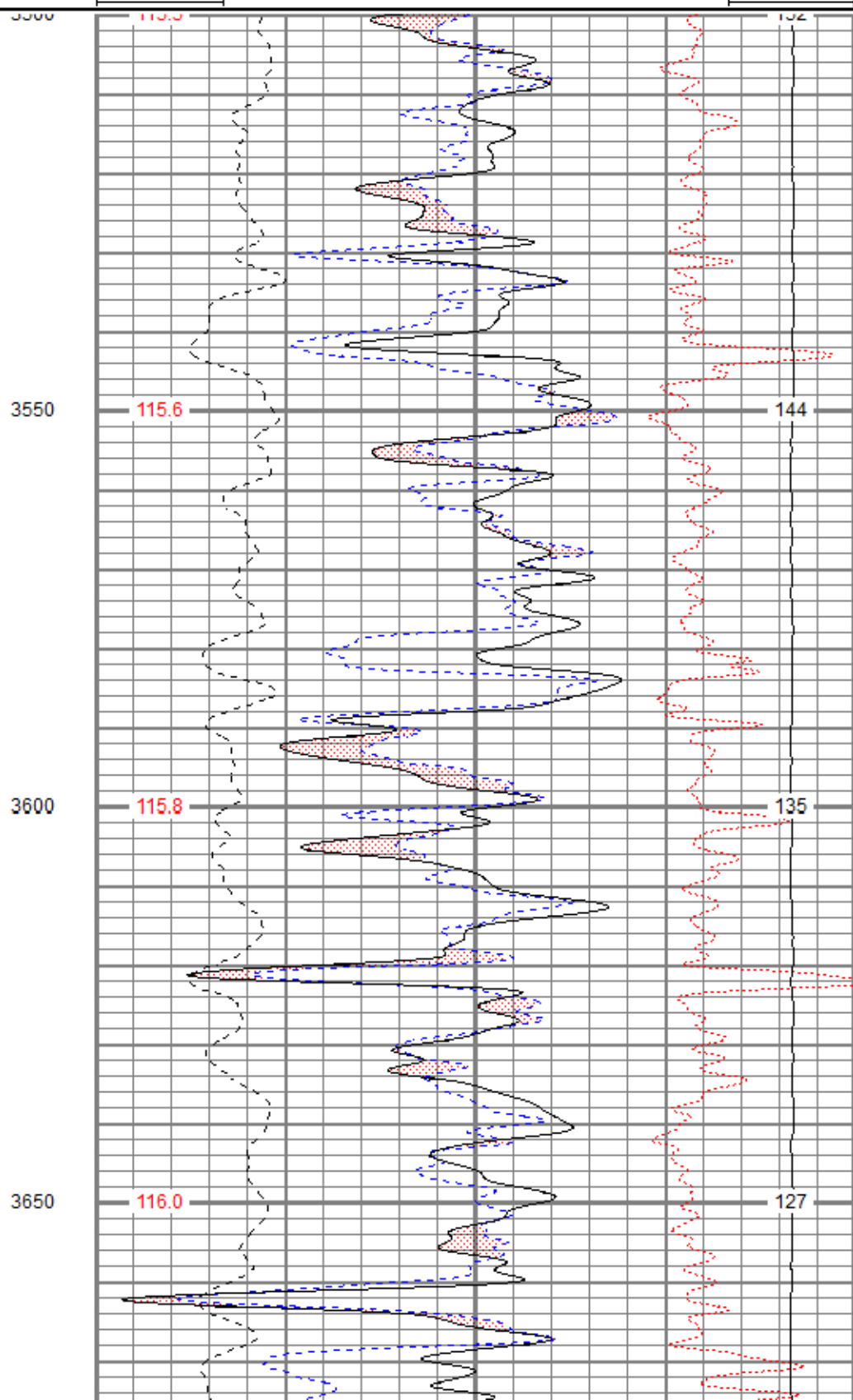
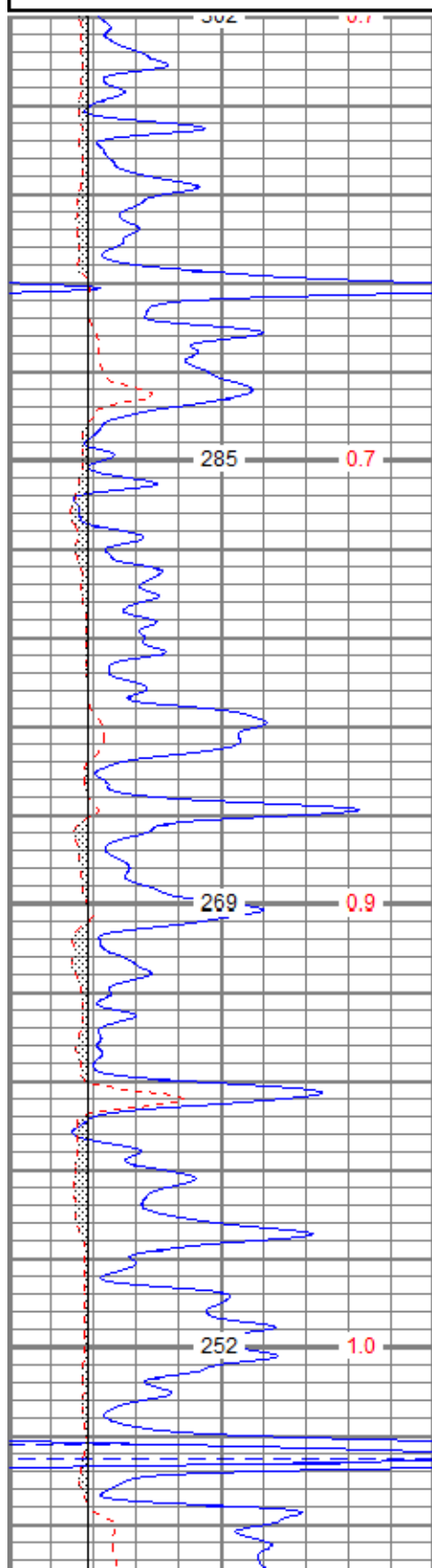


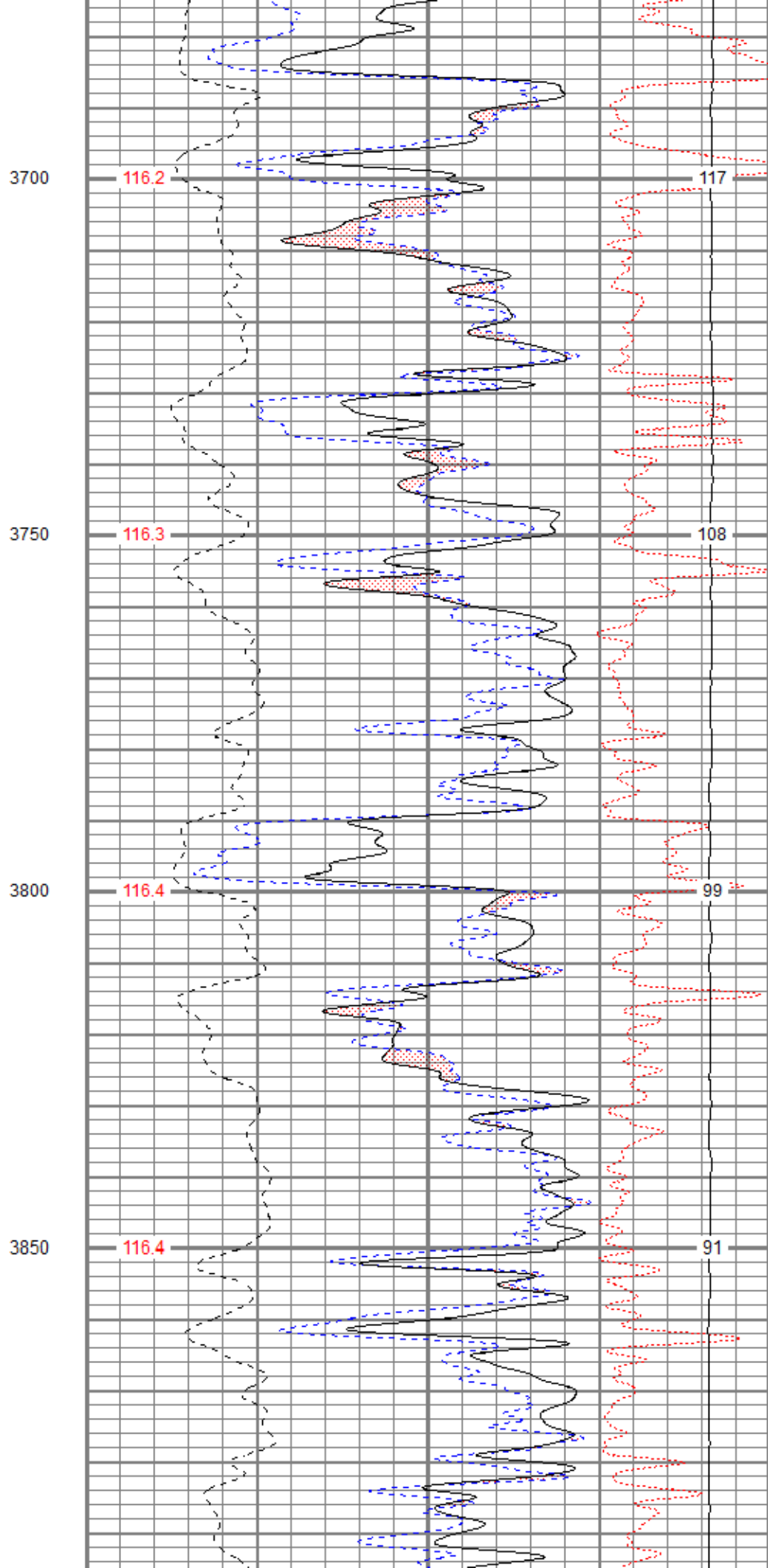
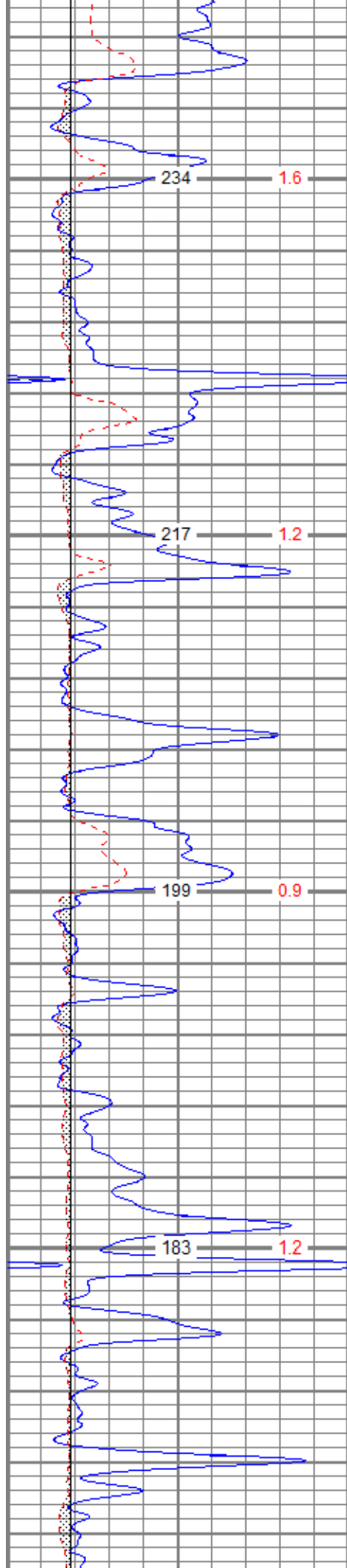
Main Pass

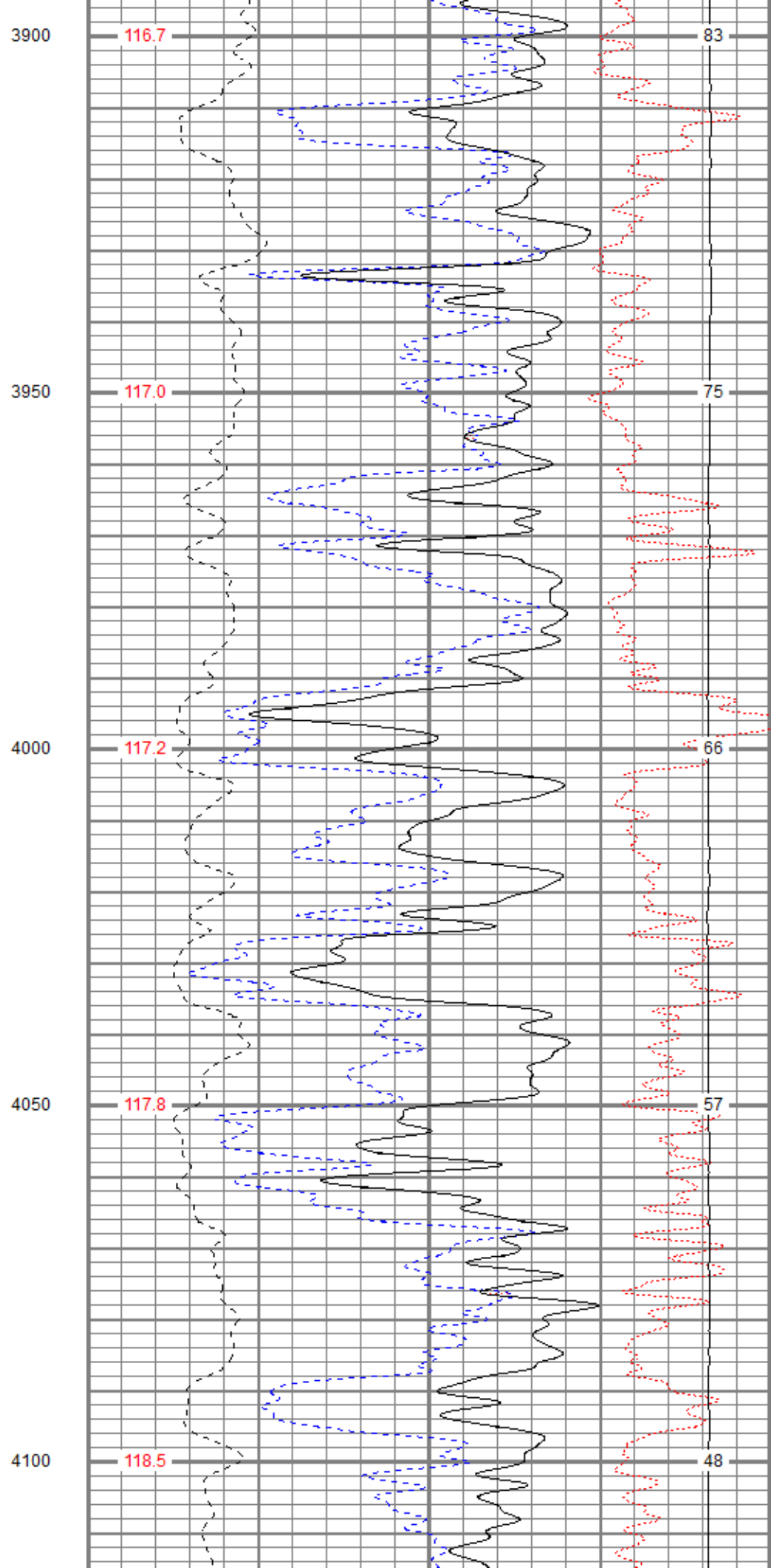
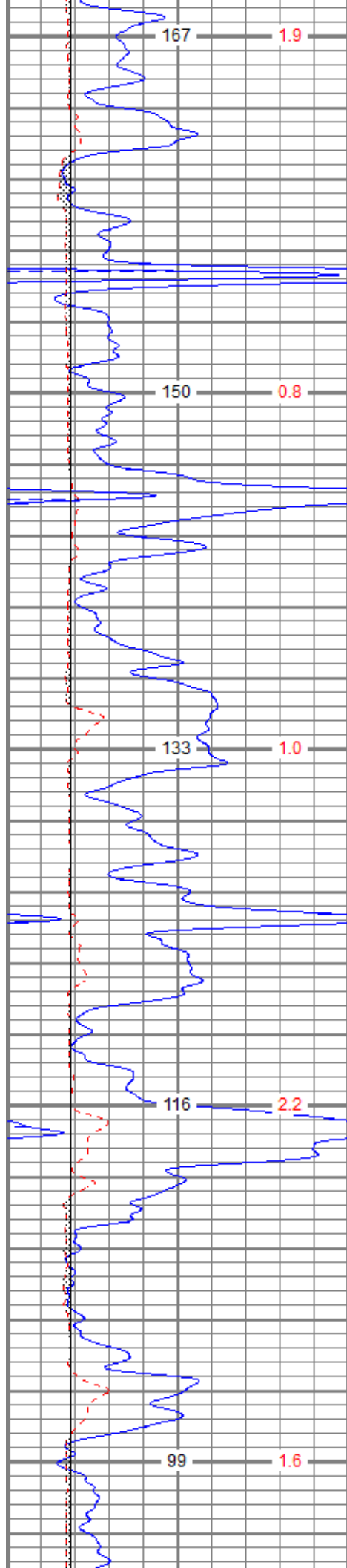
Database File pplaird#1oh.db
 Dataset Pathname pass2
 Presentation Format DIGITA~1
 Dataset Creation Tue Sep 13 01:05:05 2016
 Charted by Depth in Feet scaled 1:240

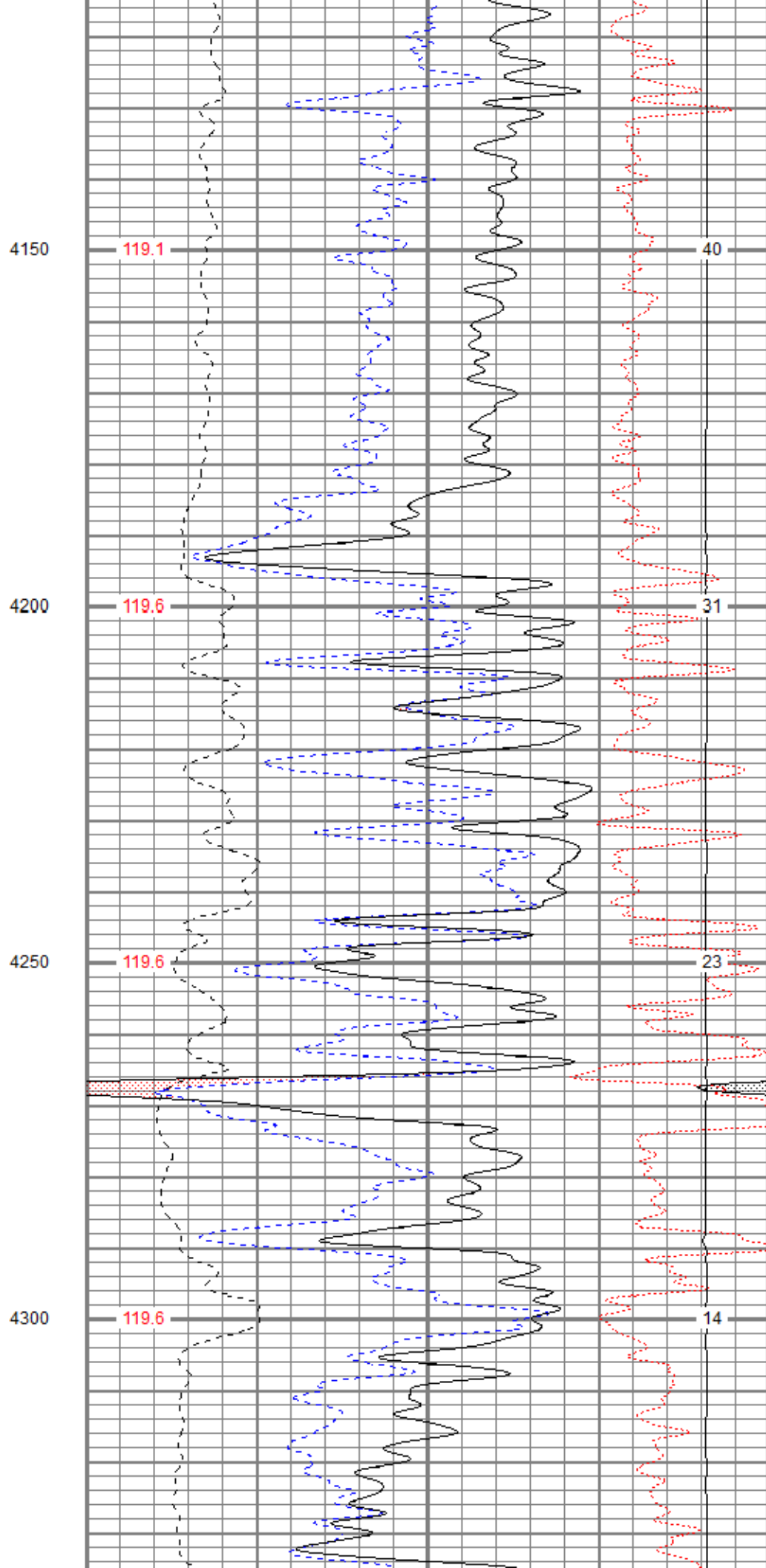
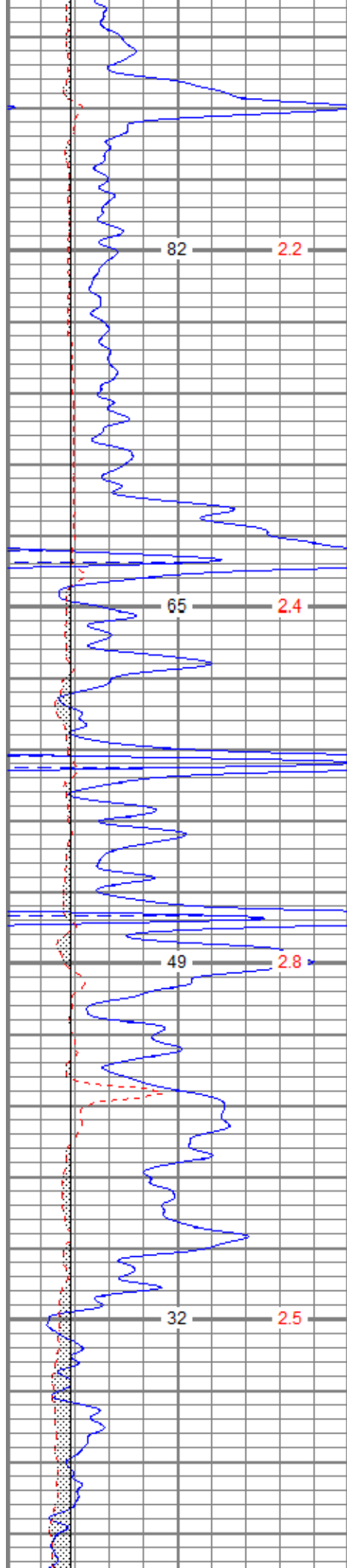
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

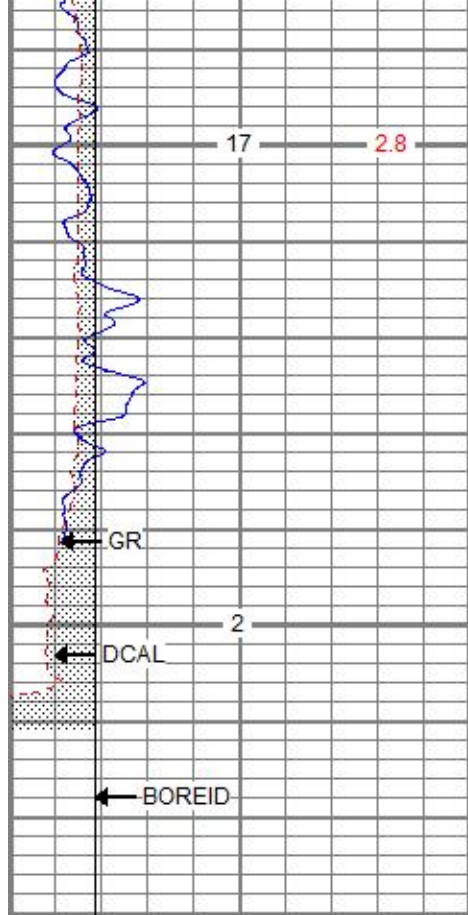
30	NPOR (pu)		-10		
30	DPOR (pu)		-10		
70	DPOR (pu)		30		
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP		8000	LTEN (lb)		0
(degF)					ABHV (ft3)







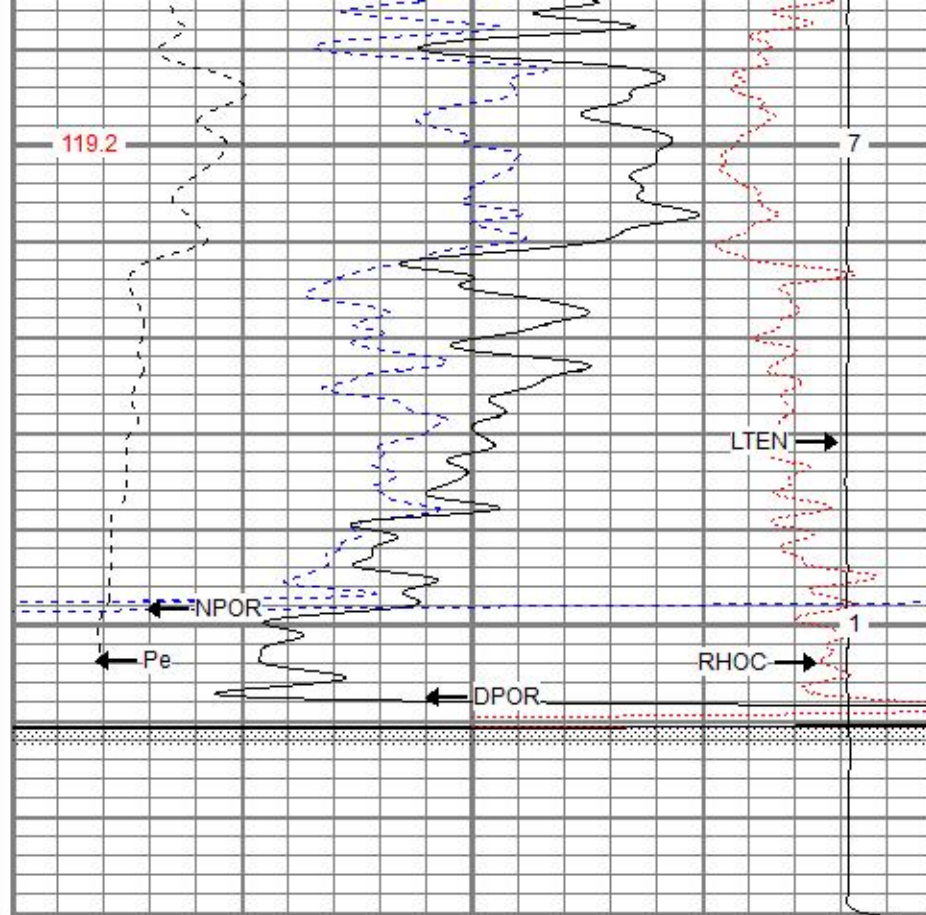




0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

4350

4400



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

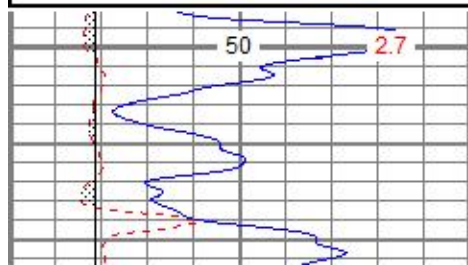


Repeat Pass

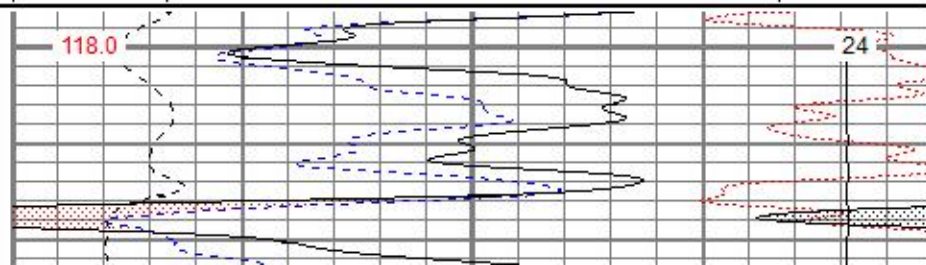
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 Dataset Pathname pass1.1
 Presentation Format DIGITA~1
 Dataset Creation Tue Sep 13 01:57:36 2016
 Charted by Depth in Feet scaled 1:240

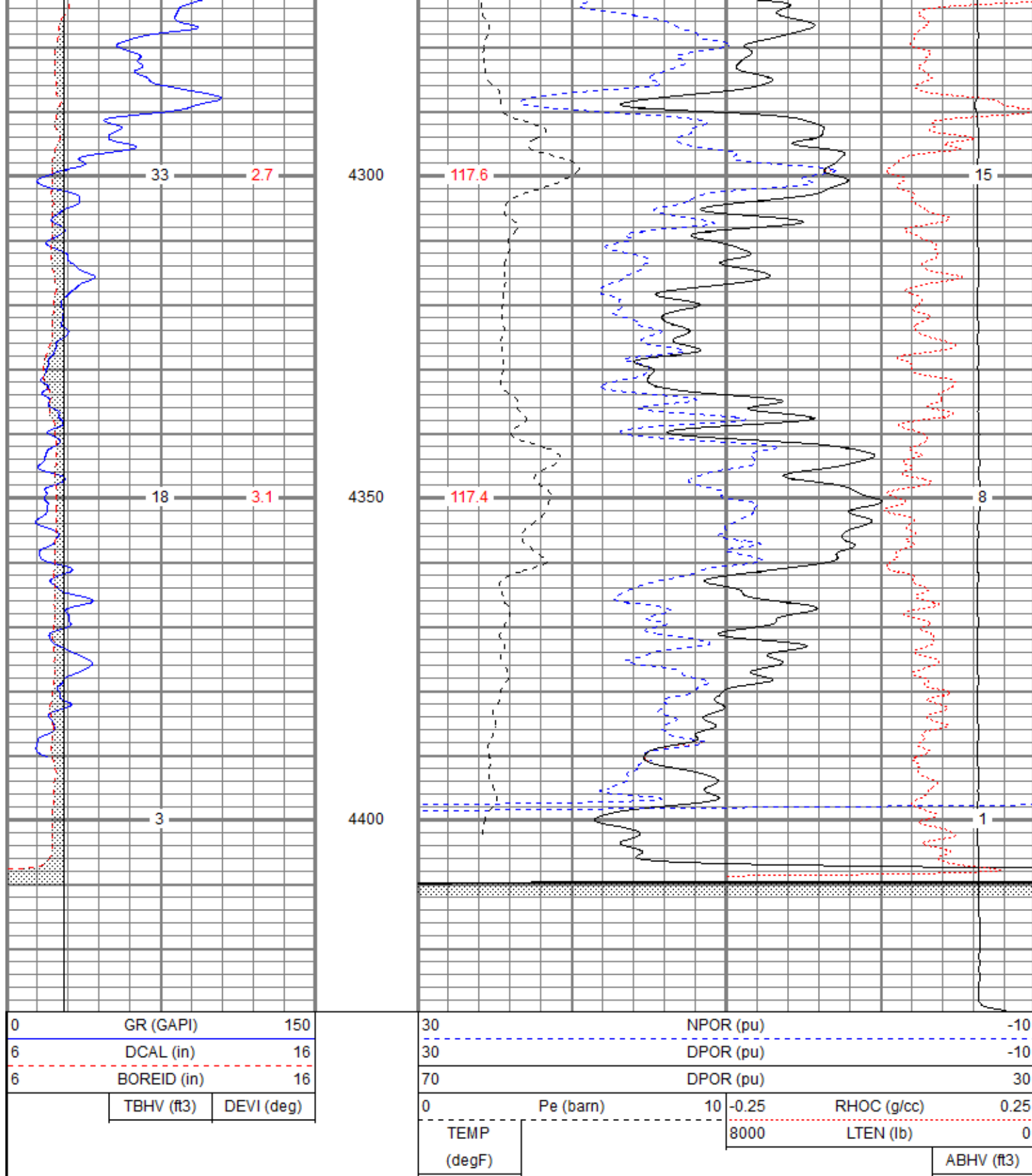
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

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



4250





Calibration Report

Database File pplaird#1oh.db
 Dataset Pathname pass1.1
 Dataset Creation Tue Sep 13 01:57:36 2016

Dual Induction Calibration Report

Serial-Model: 1989-ADM
 Surface Cal Performed: Mon Jul 11 21:35:42 2016
 Downhole Cal Performed: Mon Jul 11 21:36:11 2016

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-3.046

After Survey Verification

Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number: 2301AN
 Tool Model: Oilex
 Performed: Tue Jun 28 11:51:54 2016
 Calibrator Value: 1 NAPI
 Calibrator Reading: 1 cps
 Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 1
 Tool Model: A
 Performed: Tue Jun 28 11:51:59 2016
 Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.7000 GAPI/cps

Temperature Calibration Report

Serial Number: 1
 Tool Model: A
 Performed: Sat Apr 09 21:14:20 2016
 Reference Reading
 Low Reference: 0.00 degF 0.00 degF
 High Reference: 32.00 degF 32.00 degF

Gain: 1.00
Offset: 0.00
Delta Spacing: 1

Inclinometer Calibration Report

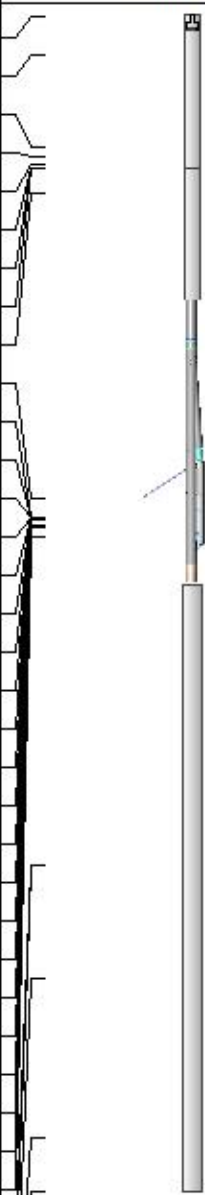
Performed: Fri Nov 13 12:11:33 2015

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

Z Accelerometer gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
PSTAT	38.23		CHD-STD	0.50	1.69	1.00
GR	36.95		ADT1PULSE-A (1) Pulsed Interface Tool #1	0.83	3.50	10.00
TEMP	33.98		ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
ASTAT	33.69		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	33.44		NEU-Oilex (2301AN)	4.27	3.50	80.00
ACCY	33.27		Oilex 100V NEU			
ACCX	33.27					
SSTAT	33.27					
NEU	32.50					
LStat	22.54					
LS8	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS7	21.88					
LS6	21.88					
LS5	21.88					
LS4	21.88					
LS3	21.88					
LS2	21.88					
LS1	21.88					
LSV	21.88					
LSD	21.86					
SSV	21.67					
SS8	21.67					
SS7	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
SS6	21.67					
SS5	21.67					
SS4	21.67					
SS3	21.67					
SS2	21.67					
SS1	21.67					
DCAL	21.61					
SSD	21.27					
SP	10.60					
CILD	10.60	Dataset: pplaird#1oh.db: field/well/run1/pass1.1				
CILM	6.89	Total length: 38.31 ft				
RLL3	1.70	Total weight: 651.00 lb				
TR Mon	0.00	O.D.: 4.00 in				