



COMPENSATED DENSITY NEUTRON LOG

Company American Oil LLC.

Well Baugher #4

Field Ellis Northwest

County Trego

State Kansas

Location:

API #: 15 195 23072

1630' FSL & 1862' FEL

SEC 23 TWP 12S RGE 21W

Permanent Datum Ground Level Elevation 2258'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
DIL
ML
Elevation
K.B. 2263'
D.F. 2262'
G.L. 2258'

Date

10-8-18

Run Number

One

Depth Driller

4020'

Depth Logger

4024'

Bottom Logged Interval

4002'

Top Log Interval

3250'

Casing Driller

8 5/8" @ 260'

Casing Logger

260'

Bit Size

7 7/8"

Type Fluid in Hole

Chemical

Density / Viscosity

9.0/48

pH / Fluid Loss

10.1/5.2

Source of Sample

Pit

Rm @ Meas. Temp

1.8@74degf

Rmf @ Meas. Temp

1.35@74degf

Rmc @ Meas. Temp

2.2@74degf

Source of Rmf / Rmc

Calculated

Rm @ BHT

1.2@109degf

Time Circulation Stopped

11:30 p.m.

Time Logger on Bottom

12:15 a.m.

Maximum Recorded Temperature

109degf

Equipment Number

T-127

Location

Hays, KS.

Recorded By

C. Patterson

Witnessed By

Mr. Austin Klaus

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

North of Ellis on Ellis Black Top 2.5 mi. (Ellis Ave.) To Locust Grove Rd.,
Then West on Locust Grove Rd. 3 mi. to 400 Ave., Then North on 400 Ave. 1/4 mi west into Location

Thanks for using Gemini Wireline LLC
785-625-1182

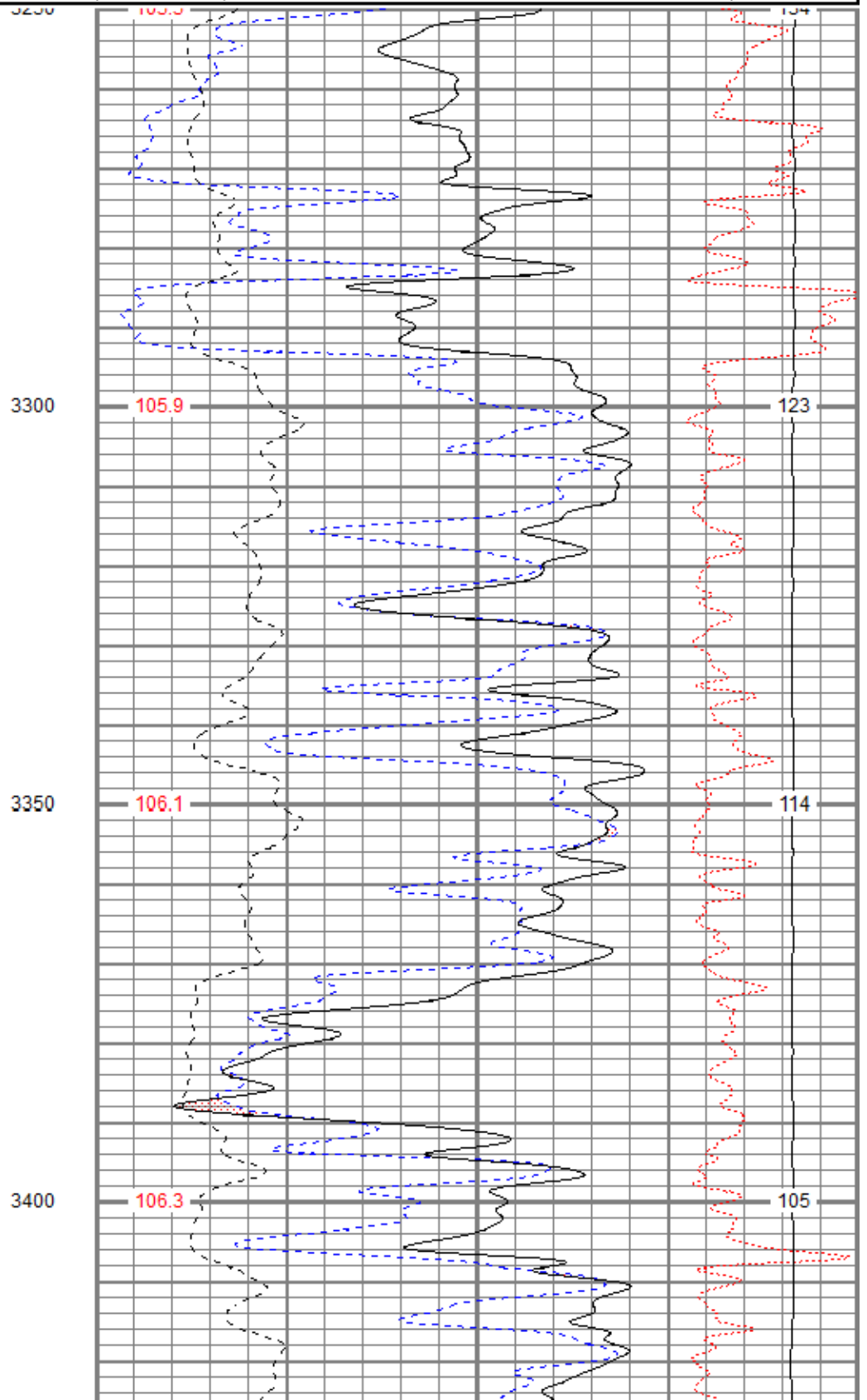
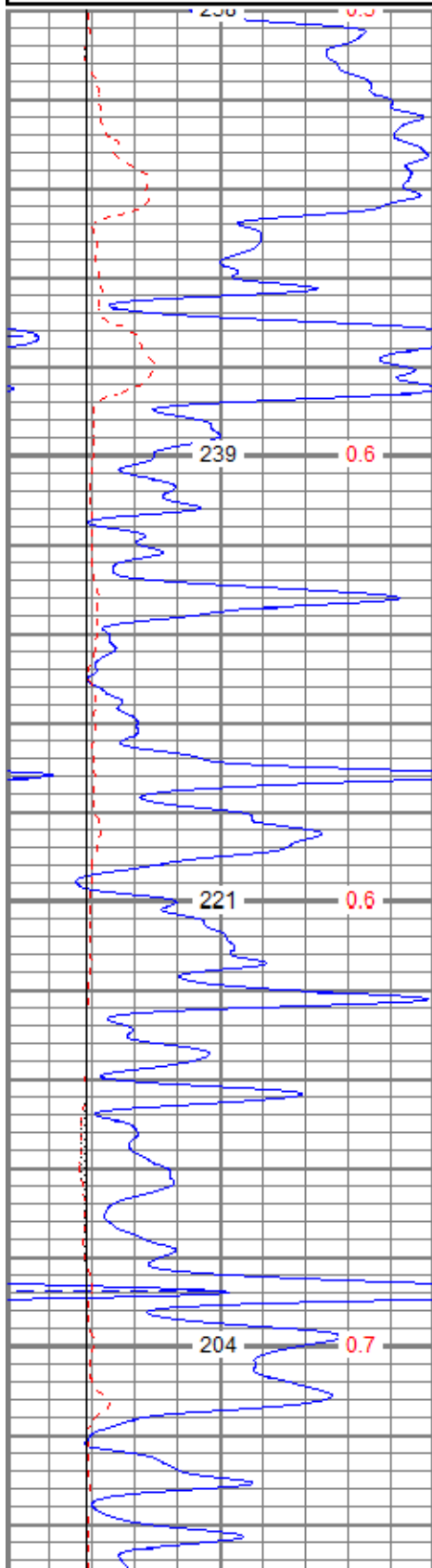


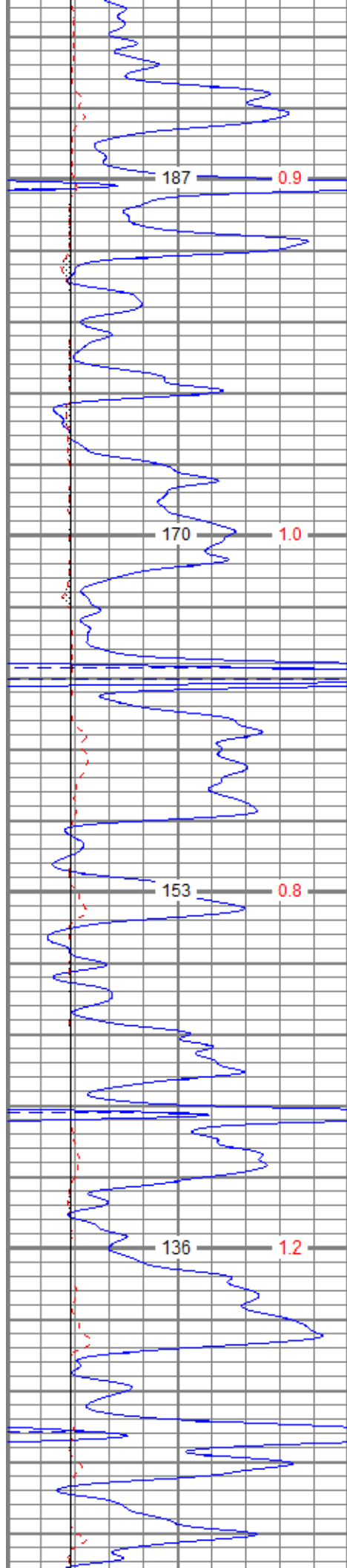
MAIN PASS

Database File aobaugher#4oh.db
Dataset Pathname pass2
Presentation Format digital_kcdnl
Dataset Creation Mon Oct 08 00:30:22 2018
Charted by Depth in Feet scaled 1:240

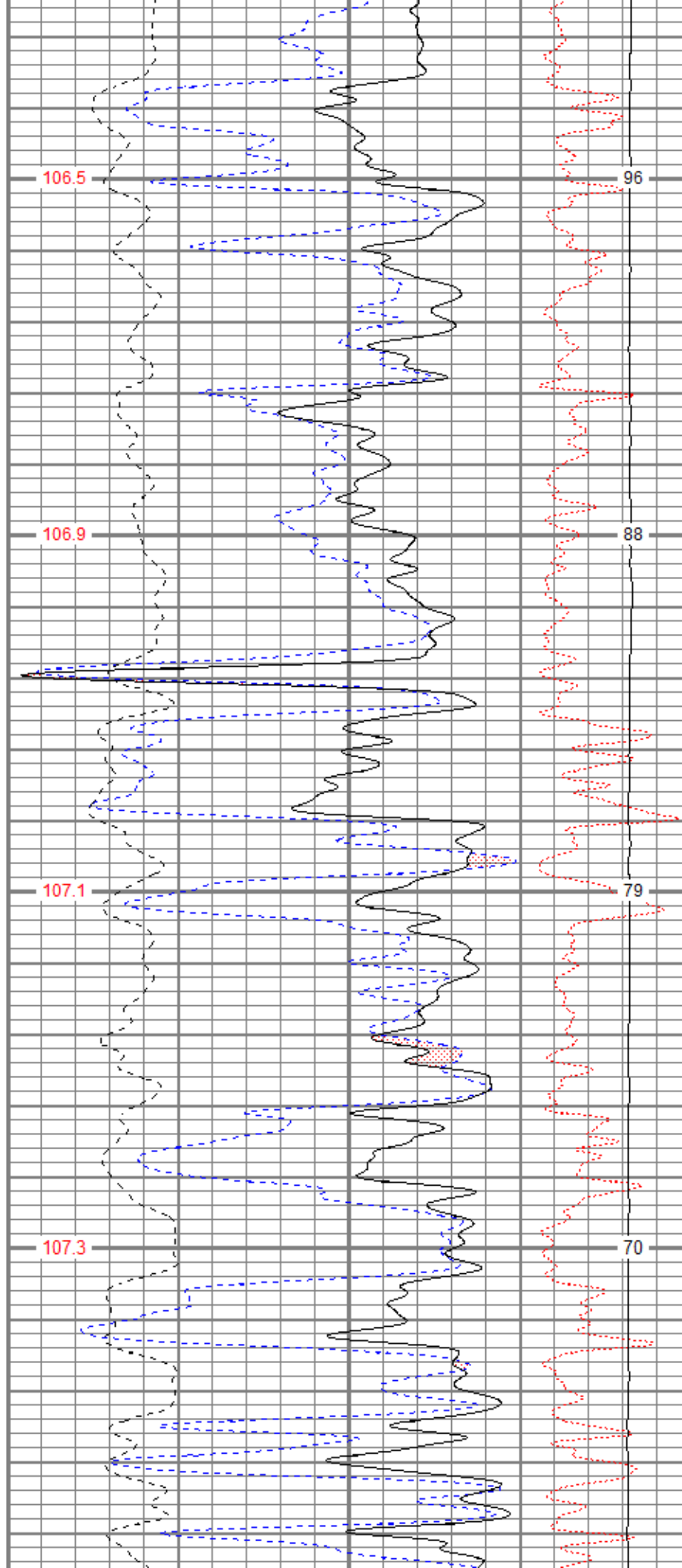
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

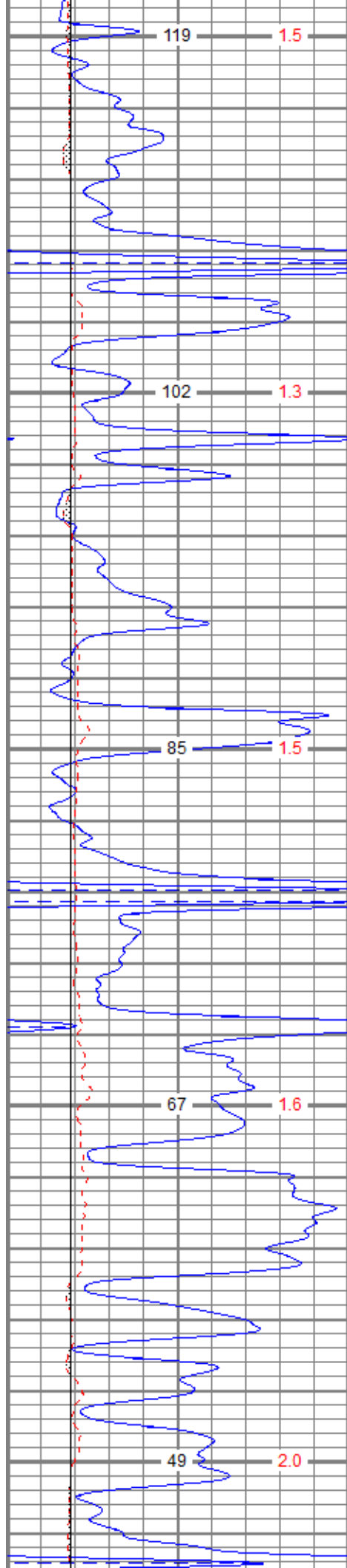
30		NPOR (pu)		-10	
30		DPOR (pu)		-10	
70		DPOR (pu)		30	
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP		8000		LTEN (lb)	0
(degF)					ABHV (ft3)





3450





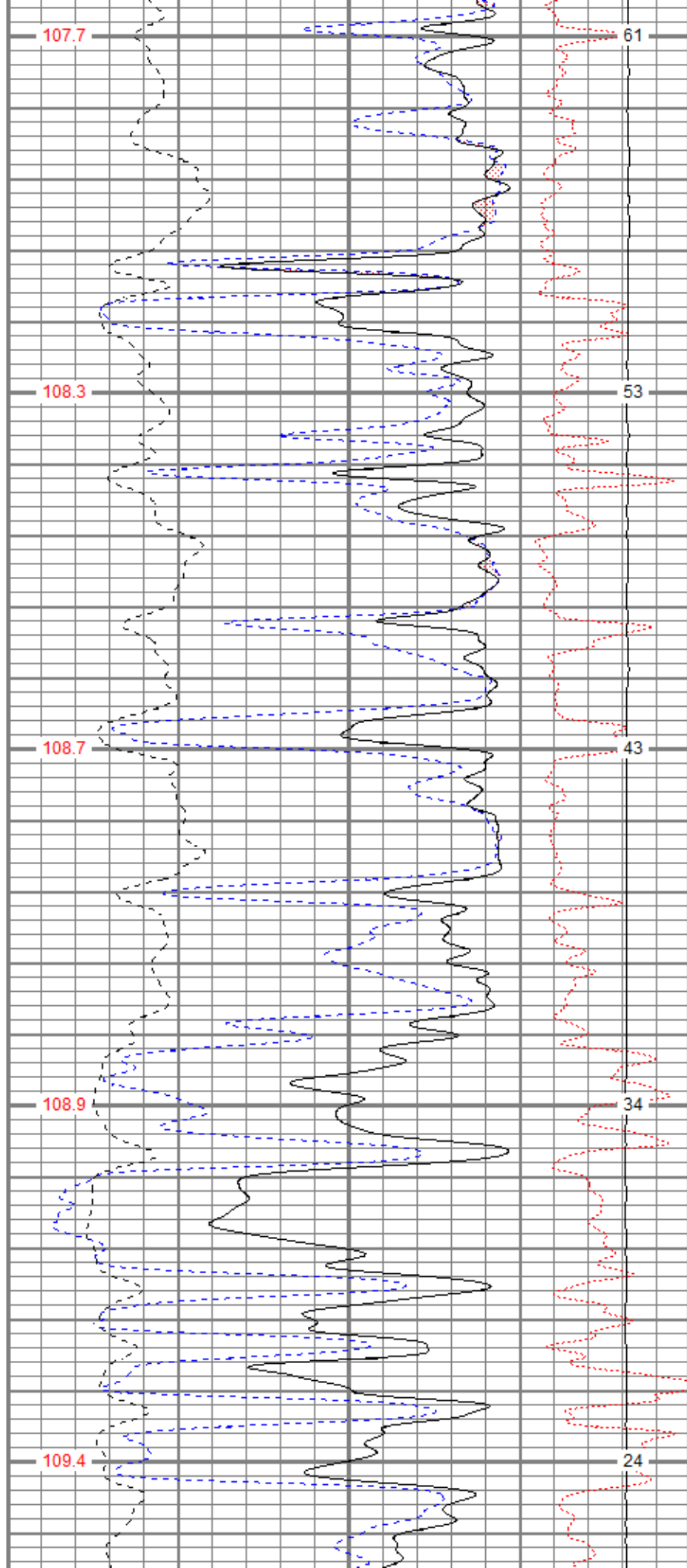
3650

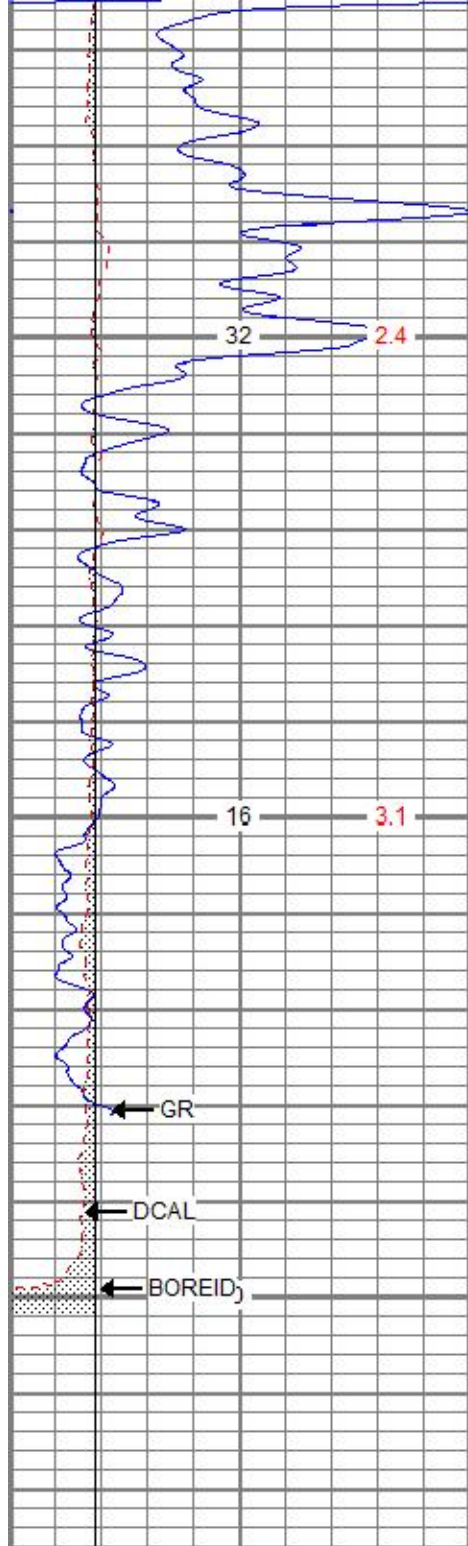
3700

3750

3800

3850



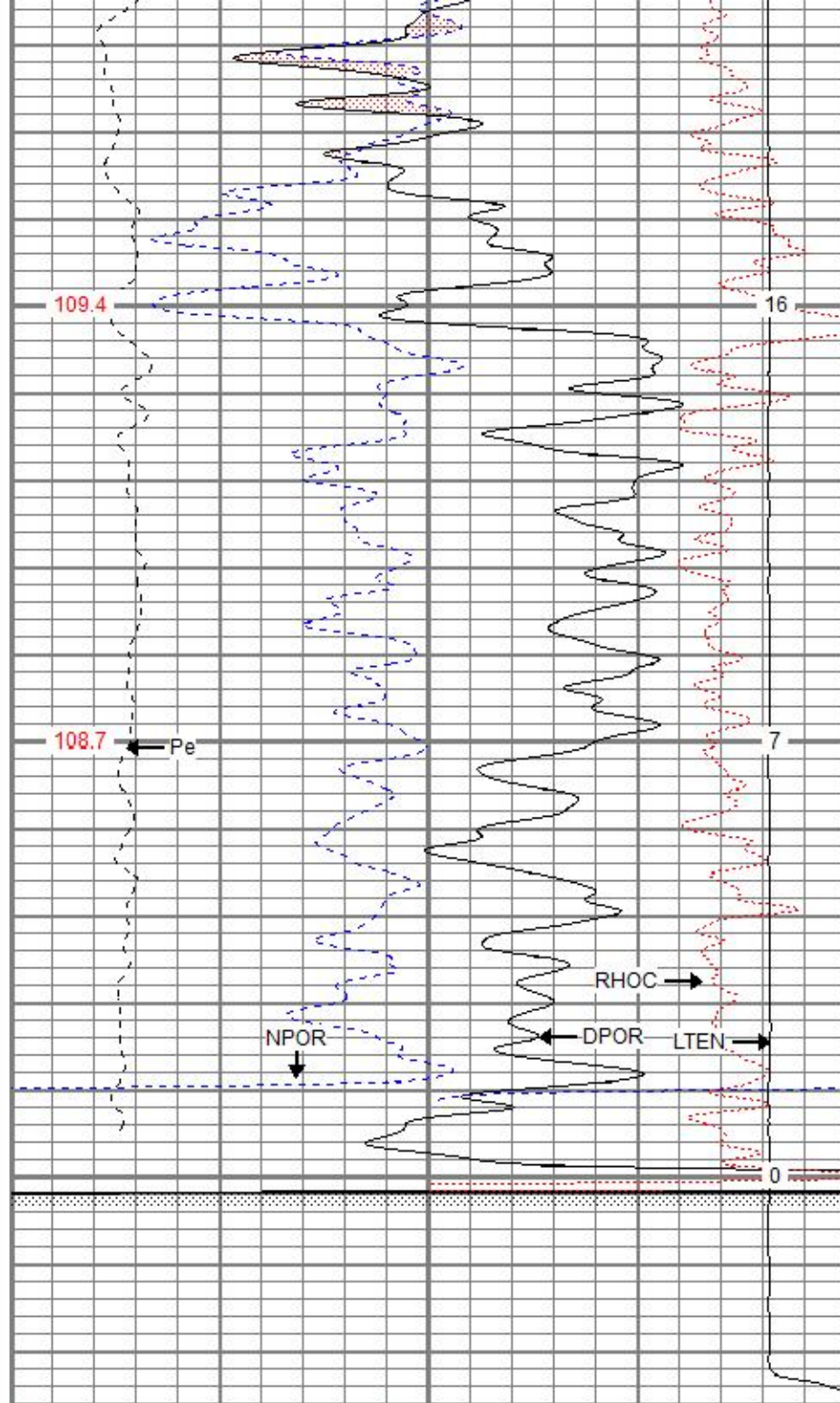


3900

3950

4000

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



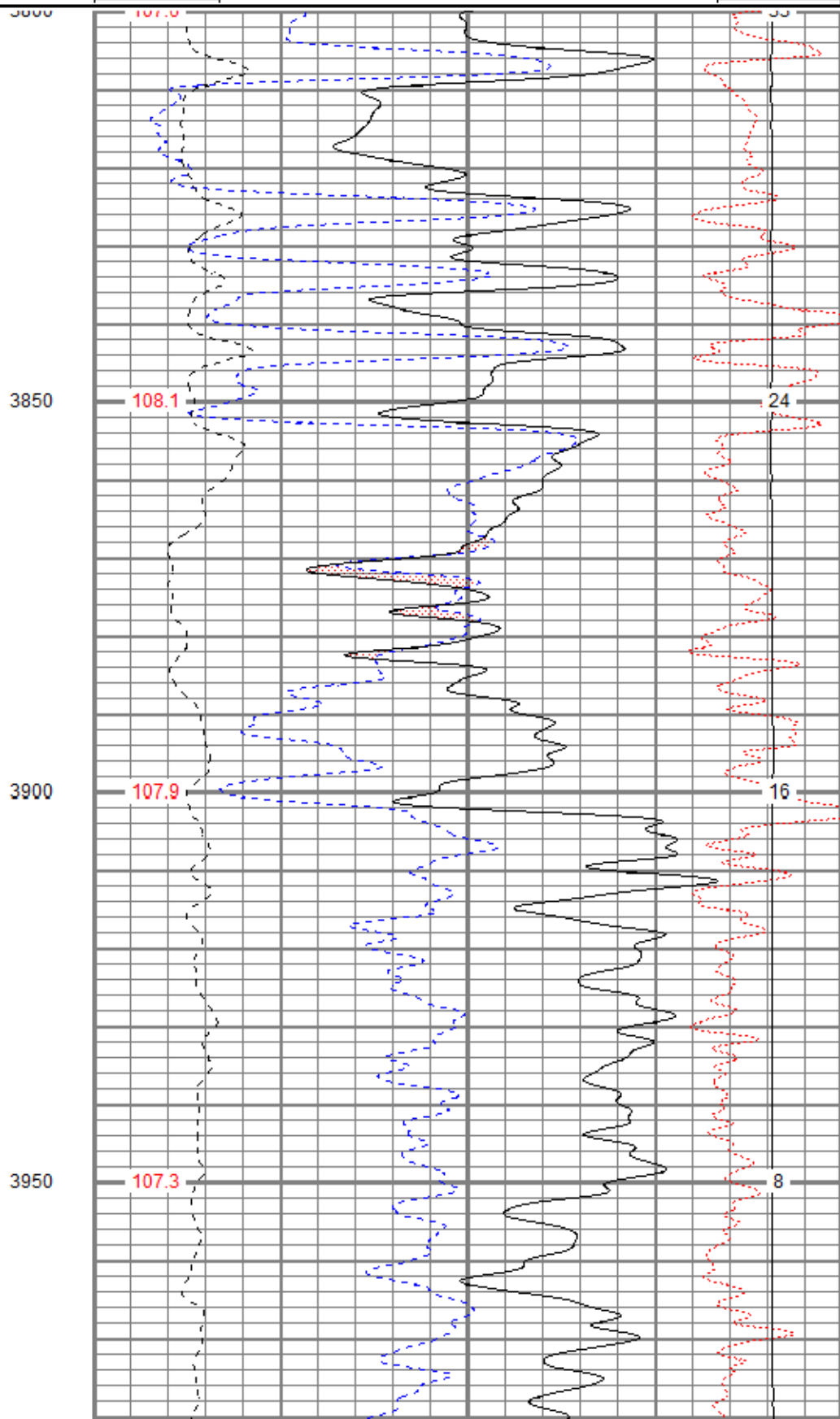
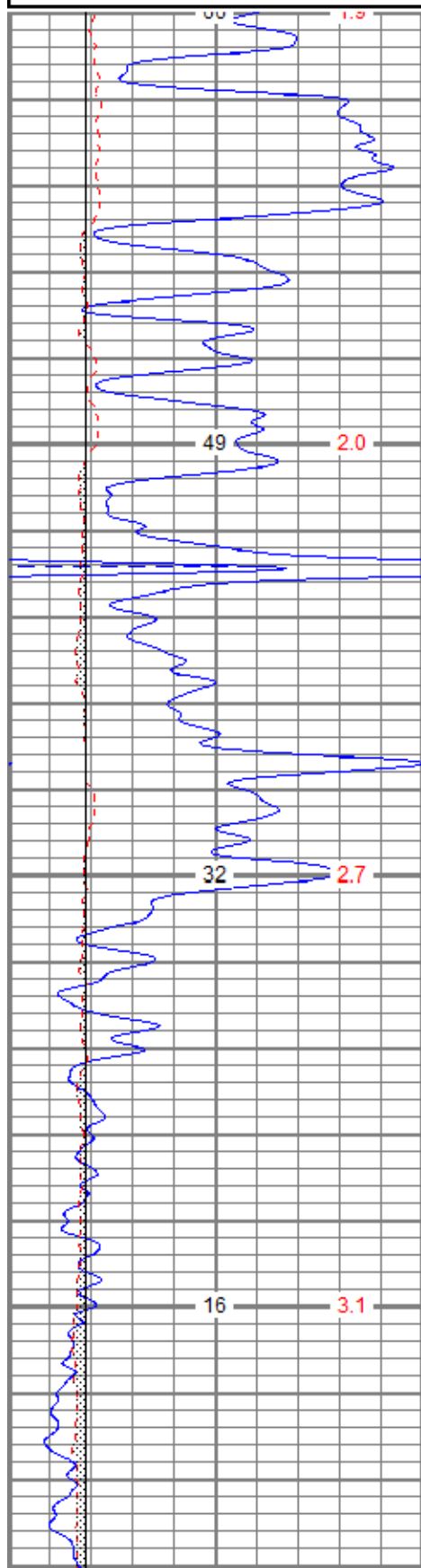
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
0	Pe (barn)	10
TEMP (degF)	8000	0
	RHOC (g/cc)	0.25
	LTEN (lb)	0
	ABHV (ft3)	

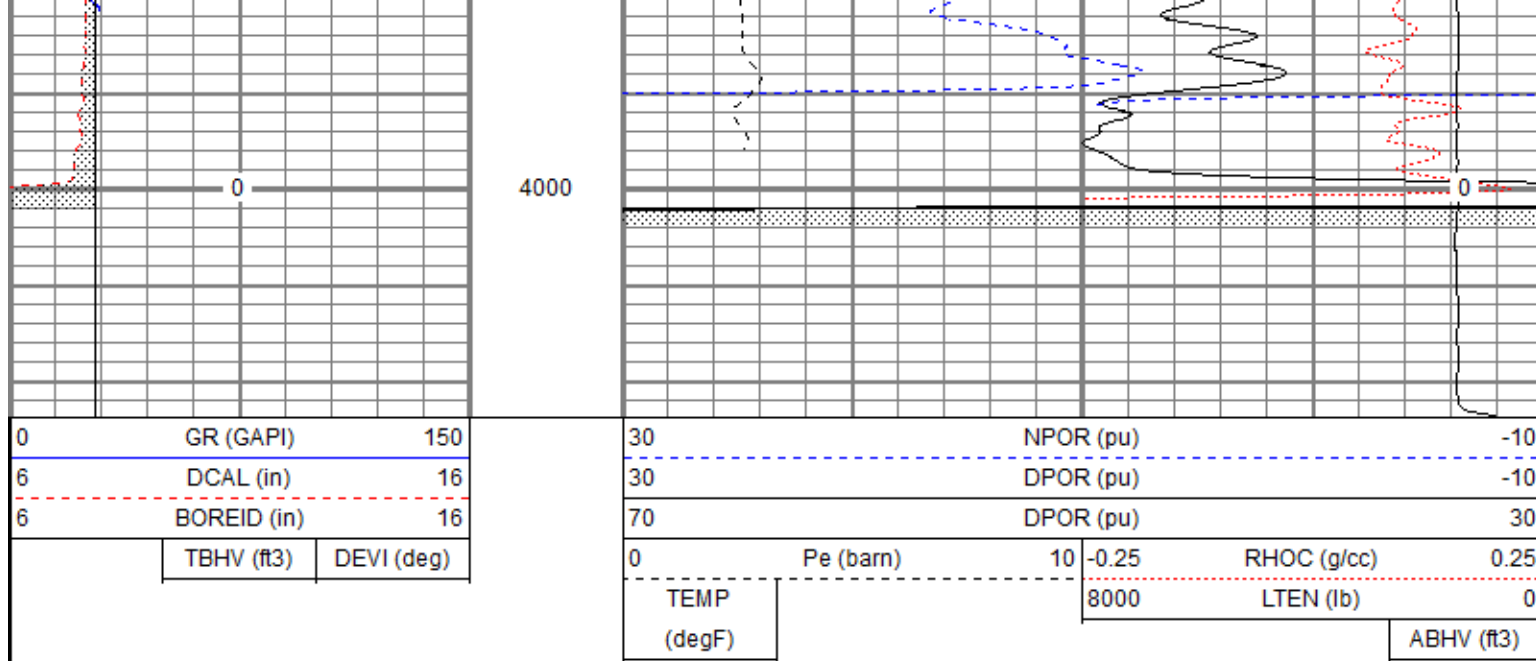


REPEAT SECTION

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)		





Calibration Report									
Database File	aobaugher#4oh.db								
Dataset Pathname	pass3								
Dataset Creation	Mon Oct 08 01:26:30 2018								
Dual Induction Calibration Report									
Serial-Model:		5375-G							
Surface Cal Performed:		Sat Oct 10 08:33:18 2015							
Downhole Cal Performed:		Sat Oct 10 08:33:23 2015							
After Survey Verification Performed:		Sat Oct 10 08:33:27 2015							
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.007	0.642	V	0.000	350.000	mmho/m	551.294	-3.816	
Medium	0.010	0.728	V	0.000	400.000	mmho/m	556.531	-5.391	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768	
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354	
Downhole Calibration									
Readings				References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.145	350.239	mmho/m	-0.044	350.323	mmho/m	1.001	-0.189	
Medium	0.435	400.472	mmho/m	-0.037	400.340	mmho/m	1.001	-0.473	
Shallow	2.440	0.018	V	500.000	2.000	Ohm-m	185.000	2.024	
After Survey Verification									
Readings				Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	0.145	350.239	mmho/m	1.001	-0.189	
Medium	0.000	0.000	mmho/m	0.435	400.472	mmho/m	1.001	-0.473	
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000	

Neutron Calibration Report

Serial Number:	2017	
Tool Model:	lithogearhart	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithOutMC	
Tool Model:	WOMC	
Performed:	(Not Performed)	
	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 Oct 03 19:54:46 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
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithOutMC	
Tool Model:	WOMC	
Performed:	Wed Dec 06 22:30:58 2017	
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)
GR	40.07		CHD-STD	0.50	1.69	1.00
ACCY	38.91		ADT-WOMC (WithOutMC) Telemetry Without Mud Cell	4.58	3.50	120.00
ACCX	38.91					
SSTAT	38.49					
PSTAT	37.66					
ASTAT	37.66					
GRD	36.82		NEU-lithogearhart (2017)	5.65	3.50	85.00
TEMP	36.82					
NEU	33.46					

LStat	24.30		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00		
LS8	23.64							
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) Gearhart			21.47	4.00	345.00
SS3	23.43							
SS2	23.43							
SS1	23.43							
DCAL	23.37							
SSD	23.04							
SP	10.60							
CILD	10.60							
CILM	6.89							
RLL3	1.70							
TR_Mon	0.00							
Dataset: aobaugher#4oh.db: field/well/run1/pass2								
Total length: 41.49 ft								
Total weight: 791.00 lb								
O.D.: 4.00 in								