



COMPENSATED DENSITY NEUTRON LOG

Company Ainsworth Operation Co.

Well Nelson #1

Field Wildcat

County Graham

State Kansas

Location:

API #: 15 065 24154

1960' FNL & 2400' FWL

SEC 33 TWP 6S RGE 22W

Permanent Datum Ground Level Elevation 2284'
Log Measured From KB 8' AGL
Drilling Measured From KB

Other Services
ML
DIL
Elevation

K.B. 2292'
D.F. 2291'
G.L. 2284'

Date 10-24-18

Run Number One

Depth Driller 3920'

Depth Logger 3919'

Bottom Logged Interval 3897'

Top Log Interval 3200'

Casing Driller 8 5/8" @ 263'

Casing Logger 263'

Bit Size 7 7/8"

Type Fluid in Hole Chemical Mud

Density / Viscosity 9.2/52 Chlorides 1000 PPM

pH / Fluid Loss 10.0/6.8

Source of Sample Pit

Rm @ Meas. Temp 3.0@70degf

Rmf @ Meas. Temp 2.25@70degf

Rmc @ Meas. Temp 3.6@70degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.96@107degf

Time Circulation Stopped 12:30 a.m

Time Logger on Bottom 5:00 a.m

Maximum Recorded Temperature 107 degf

Equipment Number T-127

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

From Intersection of Hwy24 an Hwy18 in Bogue,KS go 4.5 mi W to 310th Ave (567),
Then go N on 310th Ave(567) for 8 mi. to Z Rd.(370)
Then go W on Z Rd.(370) 1/2 mi. , S Into Location

Thank you for using Gemini Wireline
785-625-1182

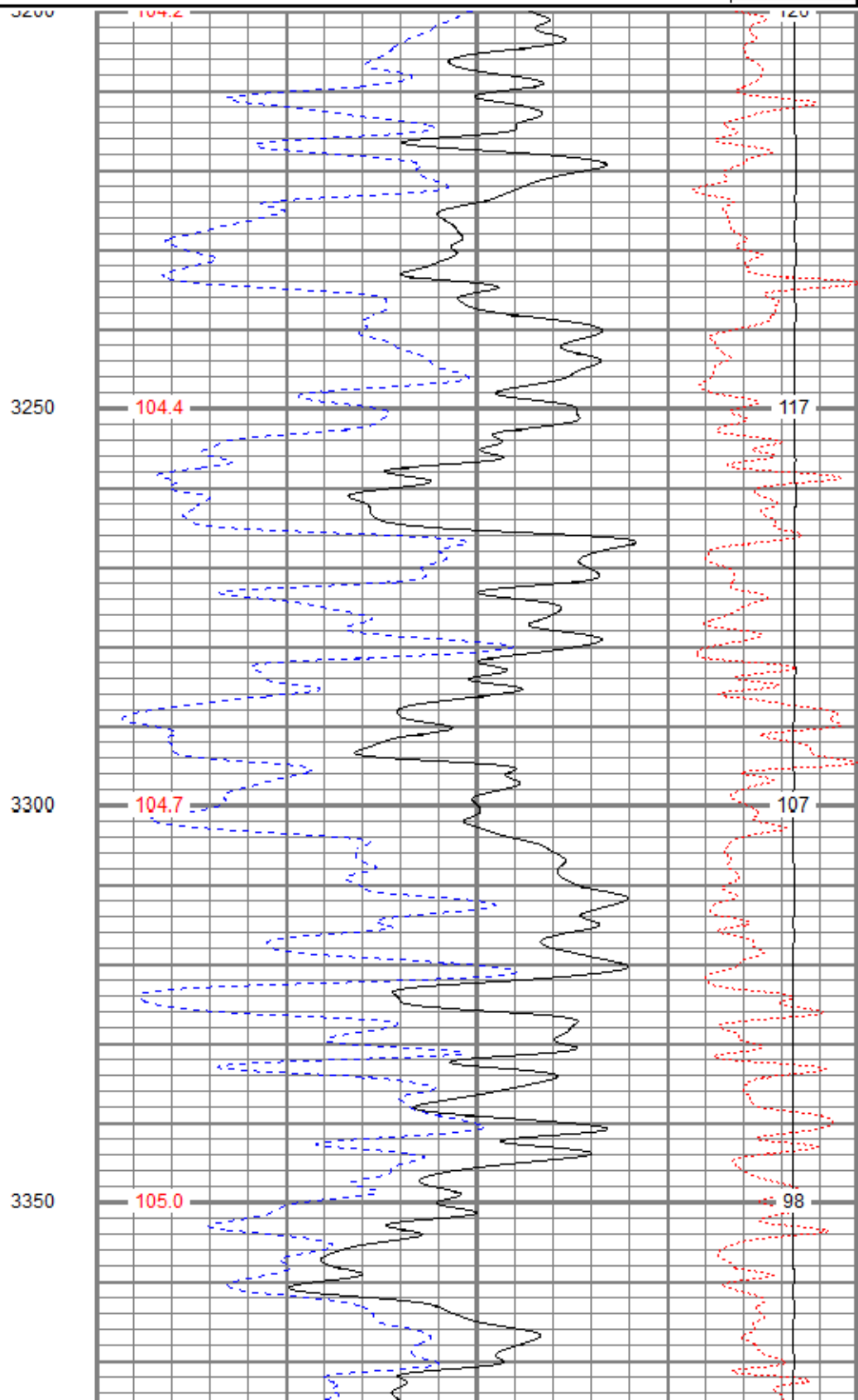
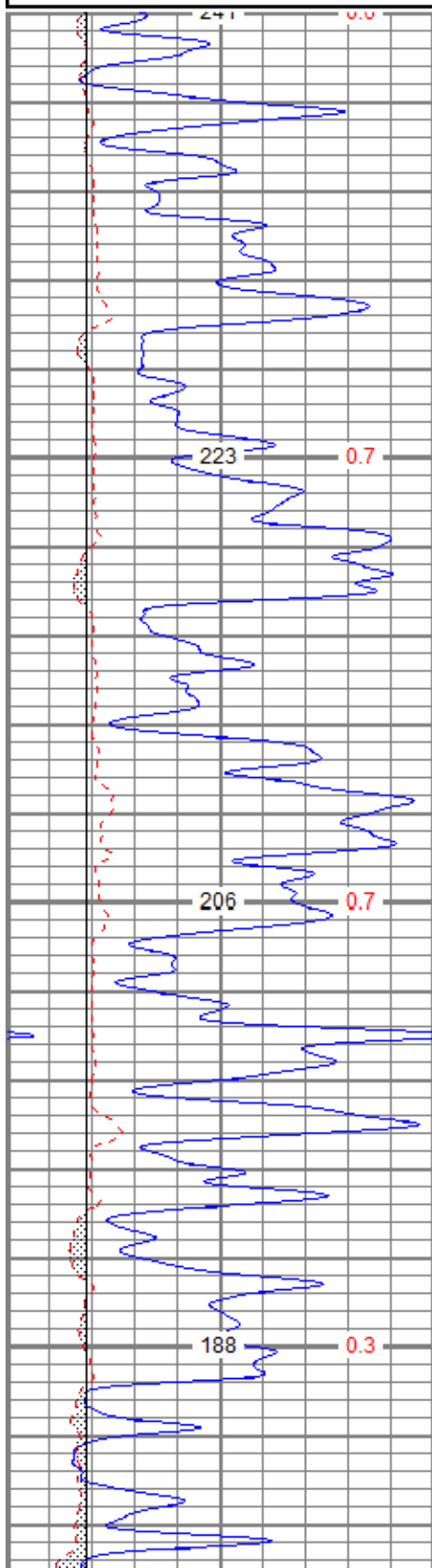


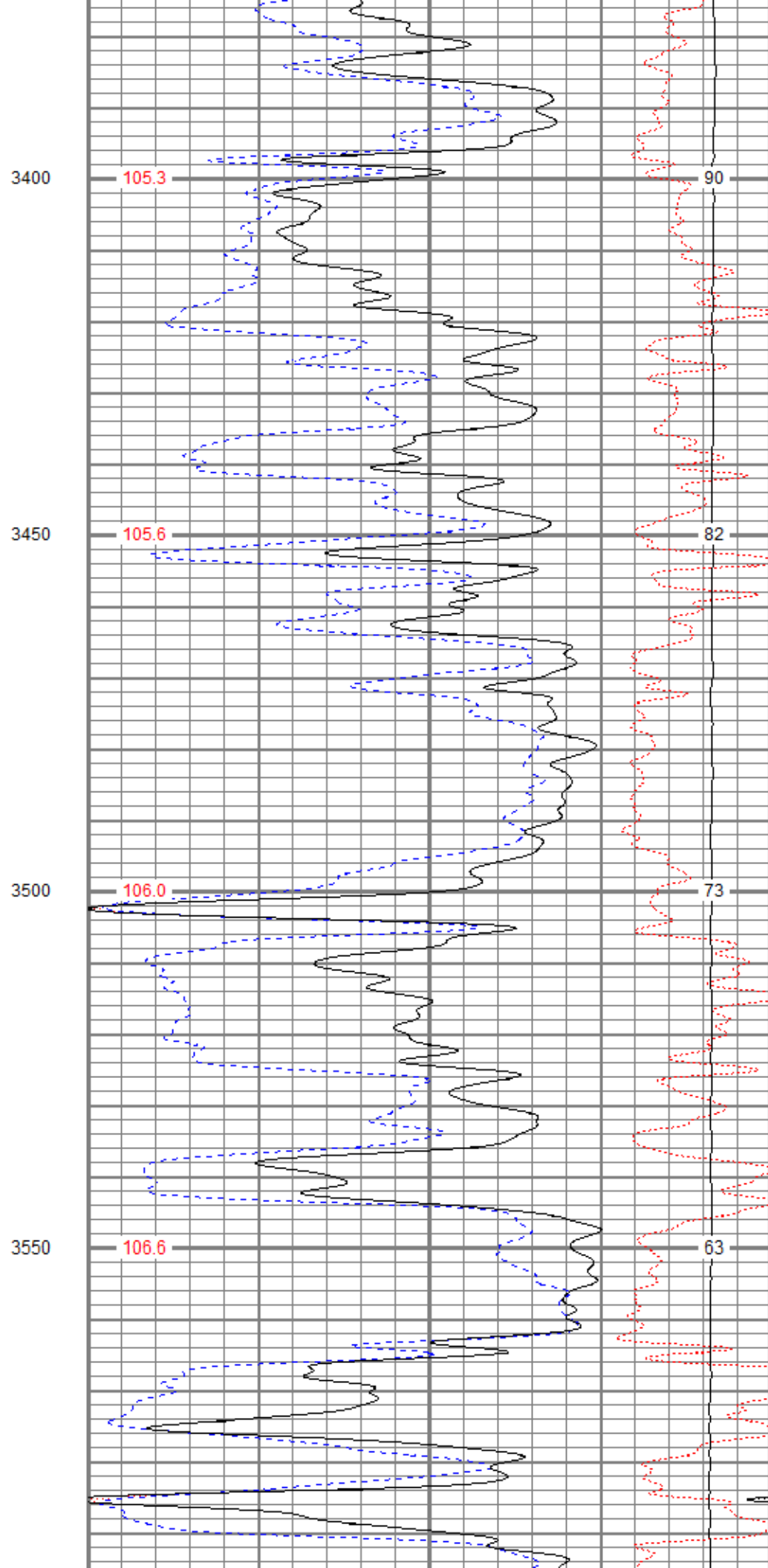
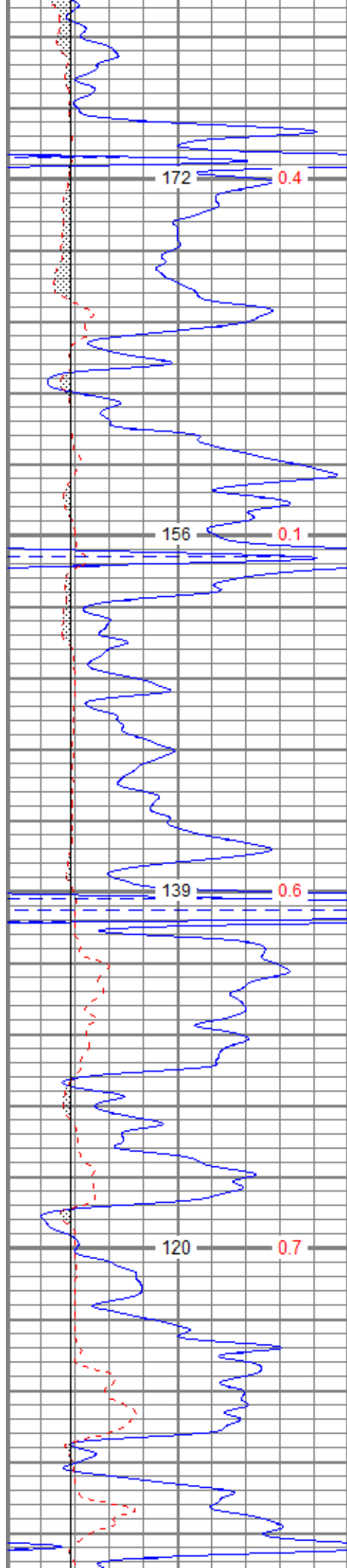
MAIN PASS

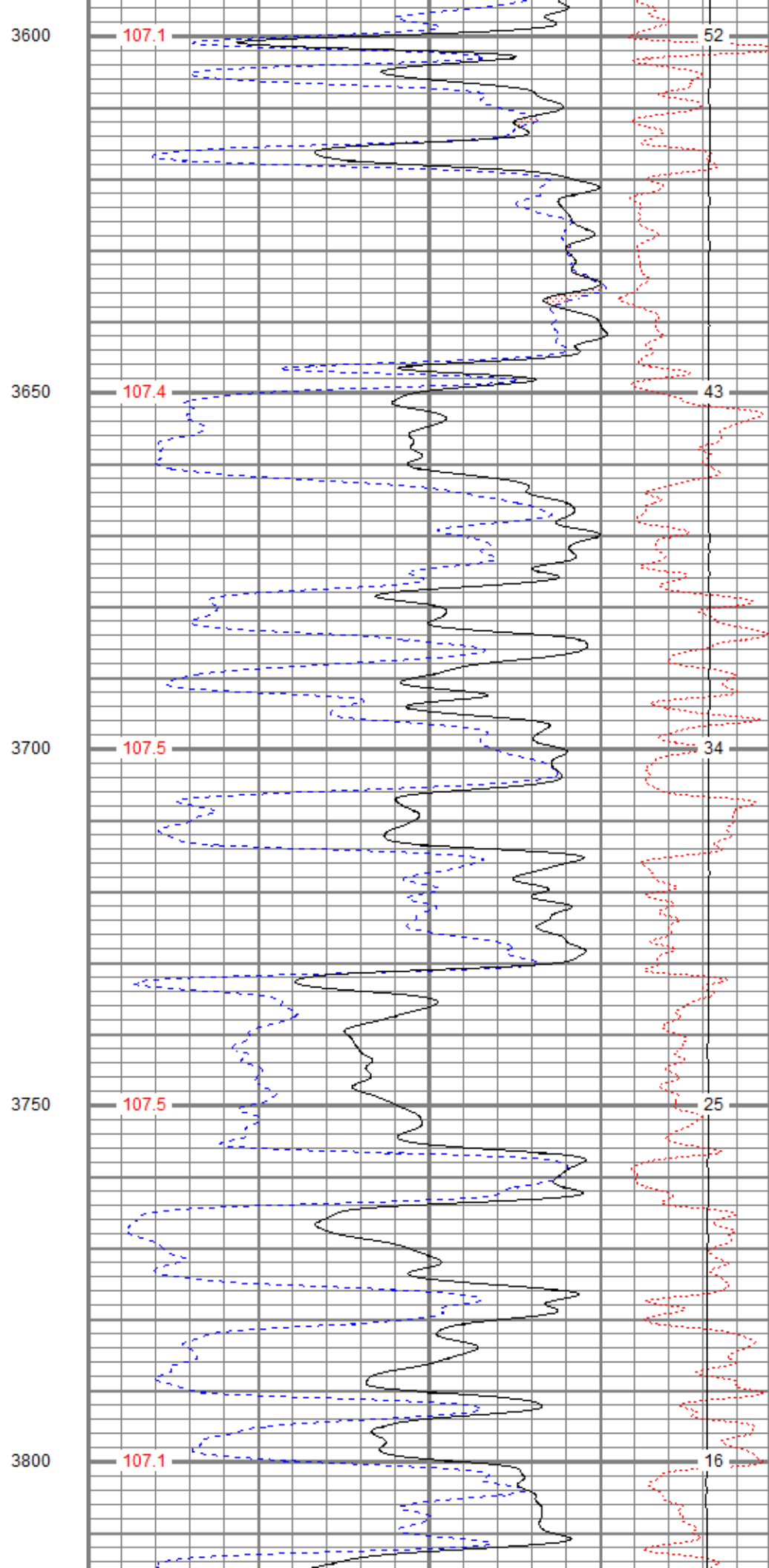
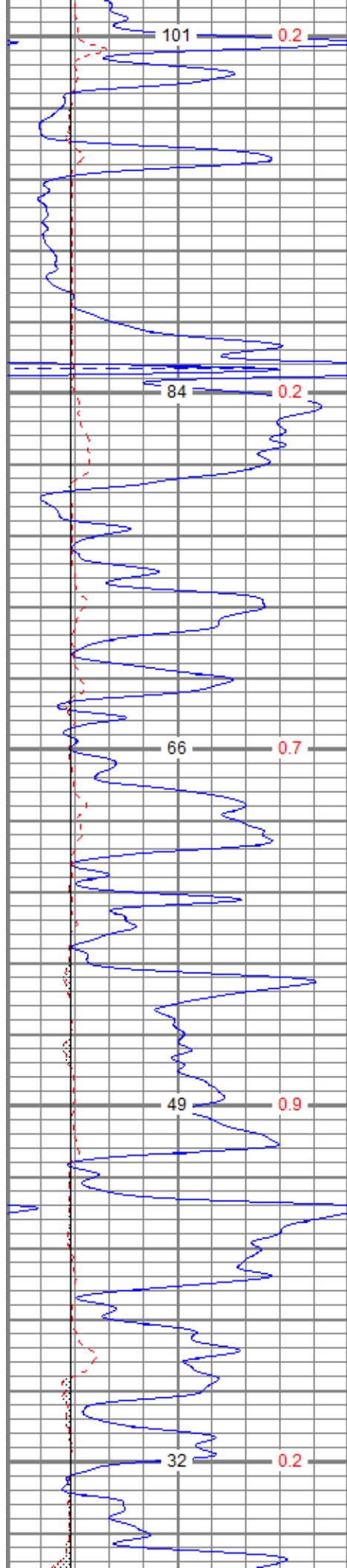
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 Charted by Depth in Feet scaled 1:240

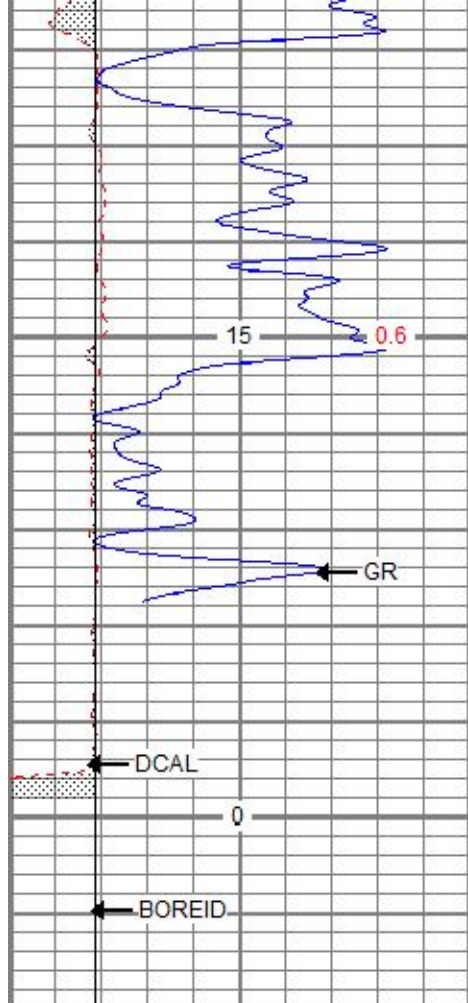
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

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





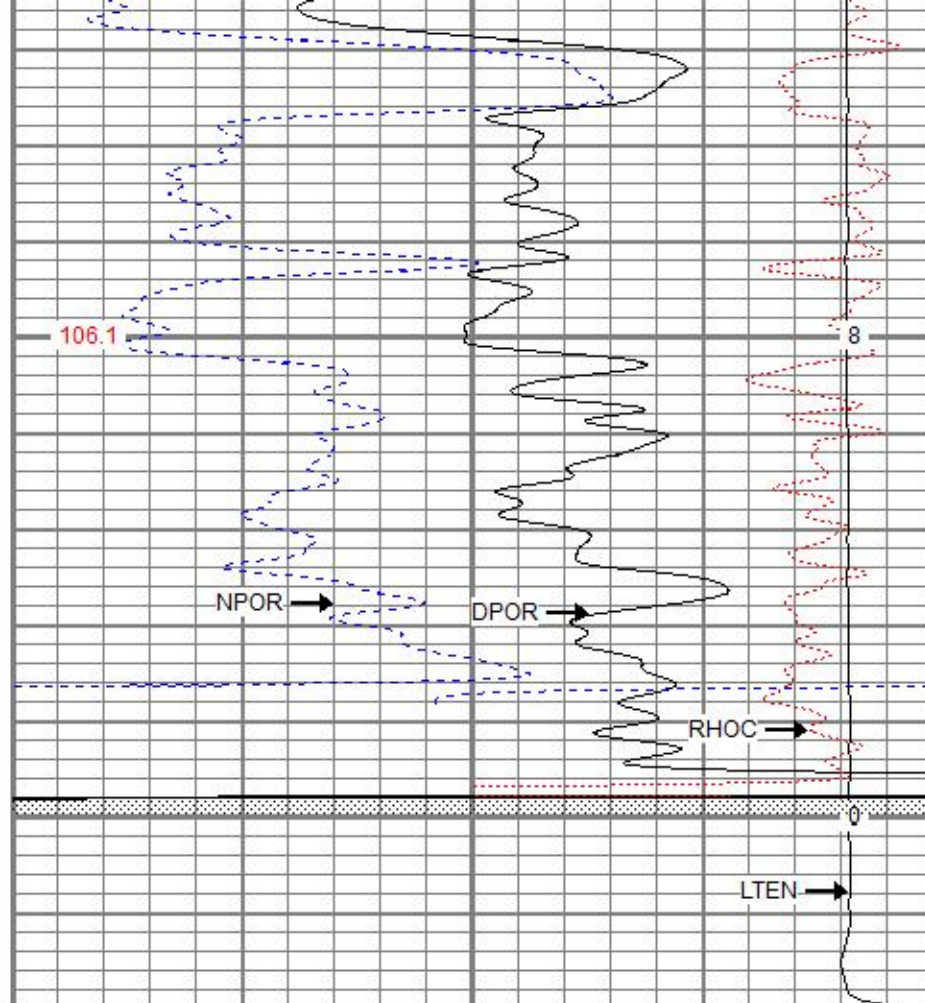




3850

3900

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	
TEMP (degF)	-0.25	RHOC (g/cc)	0.25
	8000	LTEN (lb)	0
			ABHV (ft3)

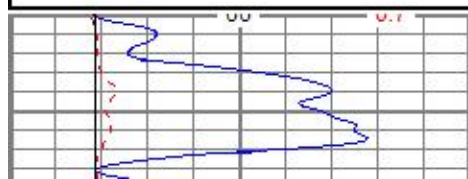


REPEAT SECTION

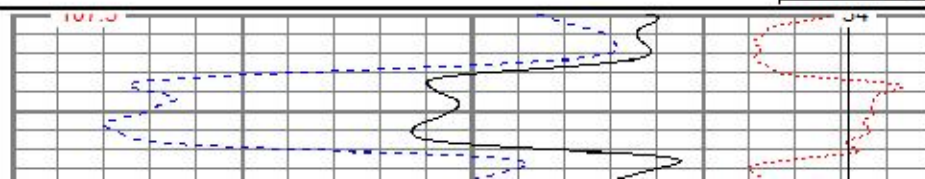
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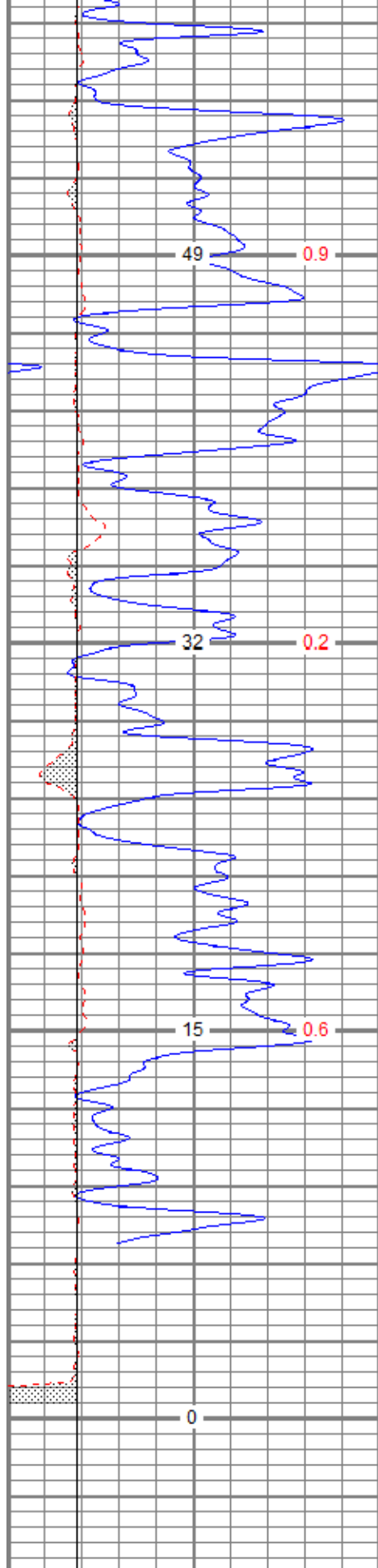
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

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

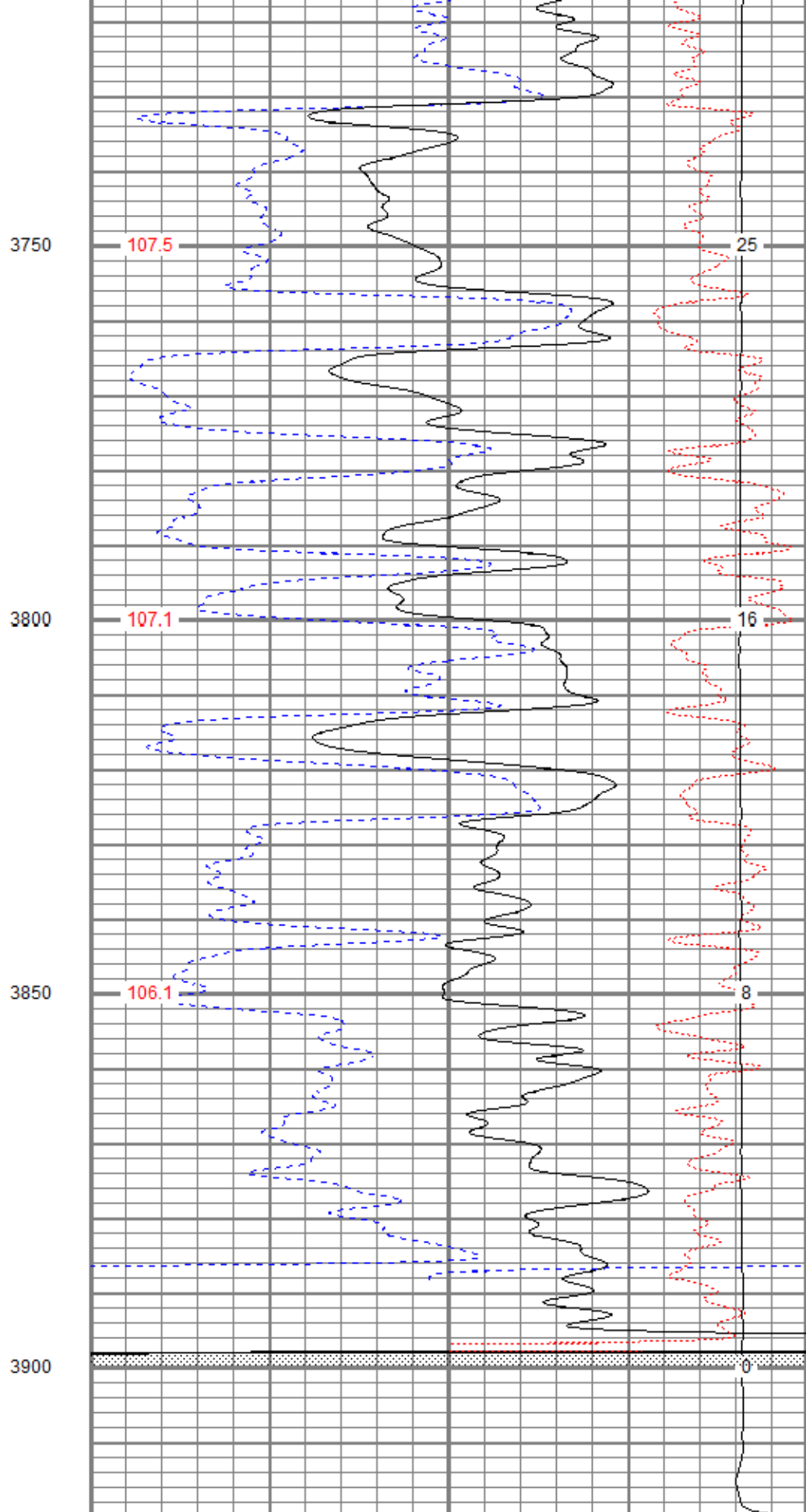


3900





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
TEMP	RHOC (g/cc)	0.25

Calibration Report

Database File awonelson#1oh.db
 Dataset Pathname pass2.1
 Dataset Creation Wed Oct 24 07:16:59 2018

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Tue Jun 14 04:36:54 2016
 Downhole Cal Performed: Tue Jun 14 04:37:33 2016
 After Survey Verification Performed: Tue Jun 14 04:37:33 2016

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.019	0.668	V	0.000	350.000	mmho/m	509.788	9.664
Medium	0.003	0.732	V	0.000	400.000	mmho/m	548.634	-1.470
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.016	0.668	V	0.000	350.000	mmho/m	511.493	8.207
Medium	0.002	0.737	V	0.000	550.000	mmho/m	747.662	-1.132

Downhole Calibration

Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	2.082	347.794	mmho/m	1.484	350.317	mmho/m	1.009	-0.616
Medium	-0.599	402.029	mmho/m	-0.640	402.950	mmho/m	1.002	-0.039
Shallow	2.424	0.019	V	500.000	2.000	Ohm-m	207.121	1.628

After Survey Verification

Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.082	347.794	mmho/m	1.009	-0.616
Medium	0.000	0.000	mmho/m	-0.599	402.029	mmho/m	1.002	-0.039
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number: Admyr
 Tool Model: G
 Performed: Thu Mar 09 09:56:12 2017

Calibrator Value: 1 NAPI

Calibrator Reading: 1 cps

Sensitivity: 1 NAPI/cps

Gamma Ray Calibration Report

Serial Number: 1
 Tool Model: A
 Performed: Thu Mar 09 09:56:15 2017

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	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: Thu Mar 09 10:44:26 2017

	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	41.37		CHD-STD	0.50	1.69	1.00
GR	40.08		ADT1SENSORS-A (1)	4.54	3.50	10.00
TEMP	37.12		ADT1PULSE-A (1)	0.83	3.50	10.00
ASTAT	36.82		Pulsed Interface Tool #1			
GRD	36.57		ADT1ADC-A (1)	0.83	3.50	10.00
ACCY	36.41		Analog Interface #1			
ACCX	36.41		NEU-G (Admyr)	5.65	3.50	85.00
SSTAT	36.41		Gearhart Epithermal			
NEU	35.22					
LStat	24.30					
LS8	23.64					
LS7	23.64					
LS6	23.64		ADT1LITH-A (1)	9.29	3.50	240.00
LS5	23.64		Admyr Litho Density Tool			
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		DIL-G (5375)	21.47	4.00	345.00
SS4	23.43		Gearhart			

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	Dataset: awonelson#1oh.db: field/well/run1/pass2.1 Total length: 41.45 ft Total weight: 701.00 lb O.D.: 4.00 in				
TR_Mon	0.00					