



COMPENSATED DENSITY NEUTRON LOG

Company American Oil LLC.

Well McFarland #2

Field Morel

County Graham

State Kansas

Location:

API #: 15 065 24149

990' FNL & 430' FEL

Other Services

SEC 18 TWP 9S RGE 21W

Permanent Datum Ground Level Elevation 2269'
Log Measured From KB 7' AGL
Drilling Measured From KB

DIL
ML

Elevation
K.B. 2276'
D.F. 2275'
G.L. 2269'

Date 5-6-18

Run Number One

Depth Driller 3860'

Depth Logger

Bottom Logged Interval

Top Log Interval 3100'

Casing Driller 8 5/8" @ 220'

Casing Logger 220'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.5/62

pH / Fluid Loss 11.0/6.4

Source of Sample Pit

Rm @ Meas. Temp 2.0@78degf

Rmf @ Meas. Temp 1.6@78degf

Rmc @ Meas. Temp 2.56@78degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.4@117degf

Time Circulation Stopped 5.45 a.m.

Time Logger on Bottom a.m.

Maximum Recorded Temperature 117degf

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

North of Ellis on Ellis Black Top 22 mi. (Ellis Ave.) to X Rd, Then Weston X Rd. 7 Mi. to 350th Rd. Then North on 350th 3 mi. to K Rd., West on K Rd. 20 feet South into Location.

Thanks for using Gemini Wireline LLC
785-625-1182

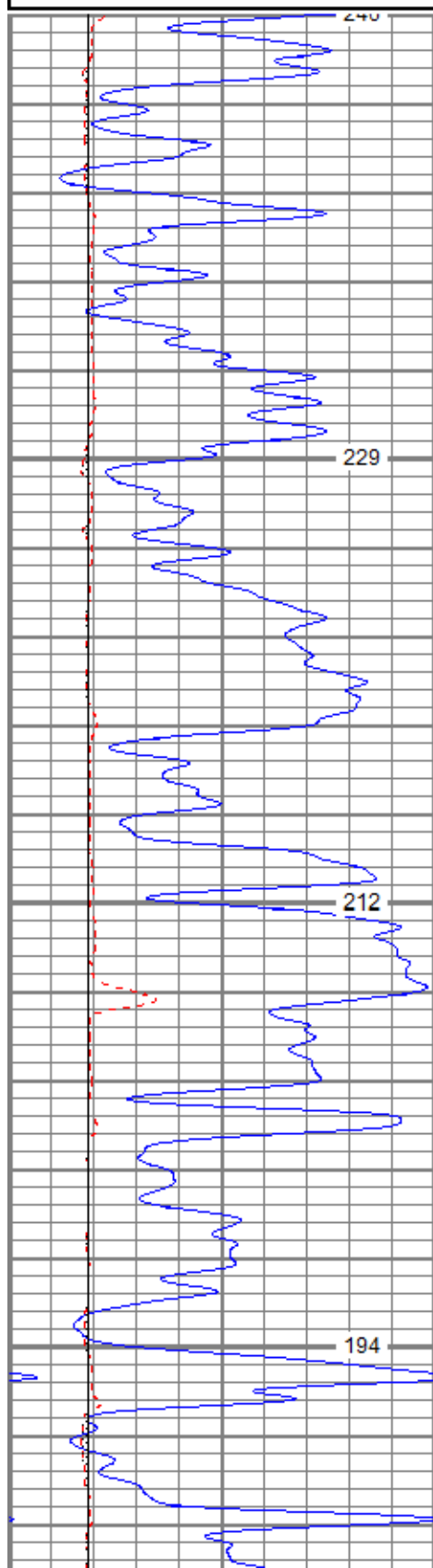


MAIN PASS

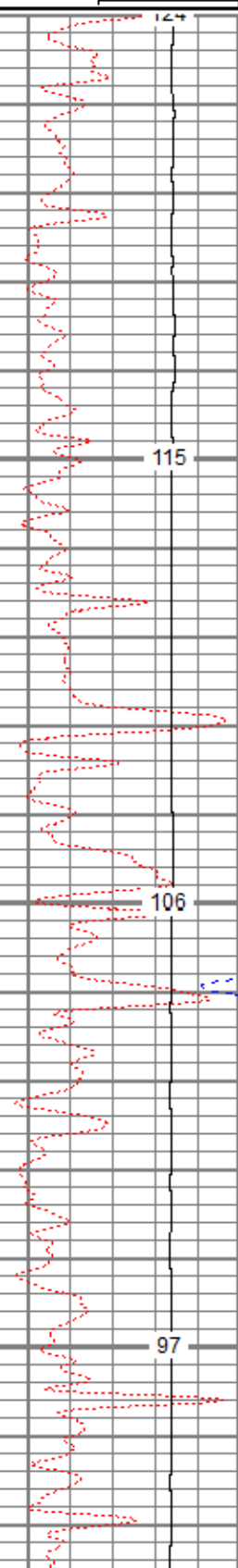
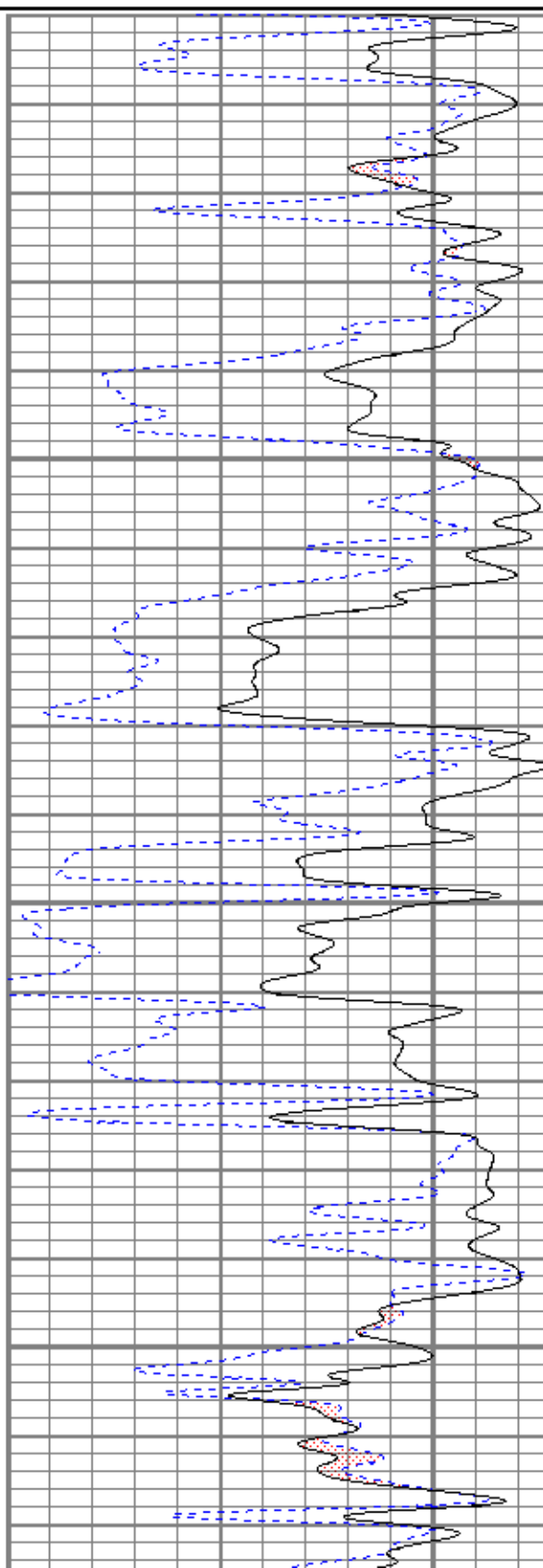
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 Presentation Format kcdnl
 Dataset Creation Sun May 06 09:24:53 2018
 Charted by Depth in Feet scaled 1:240

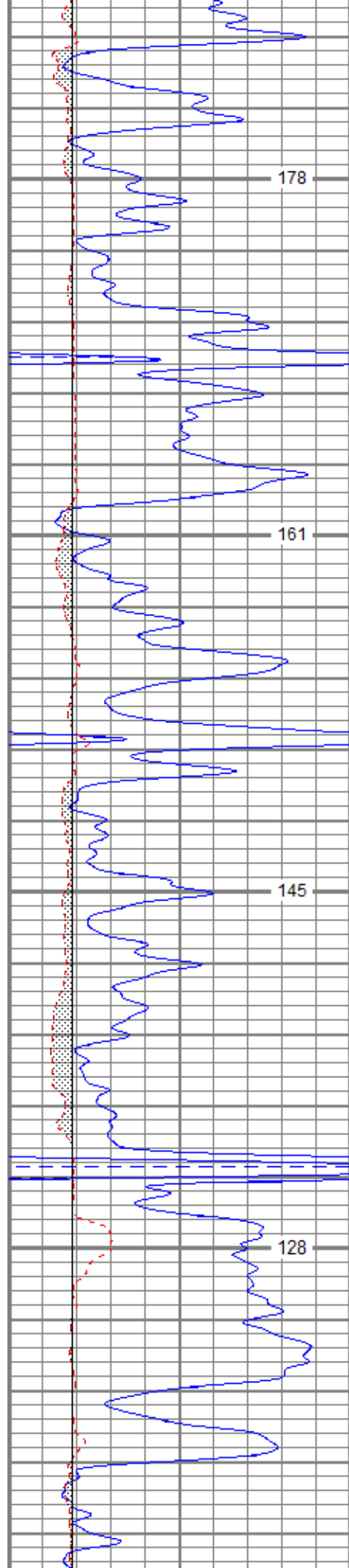
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6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
TBHV (ft3)		

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



3100
 3150
 3200
 3250



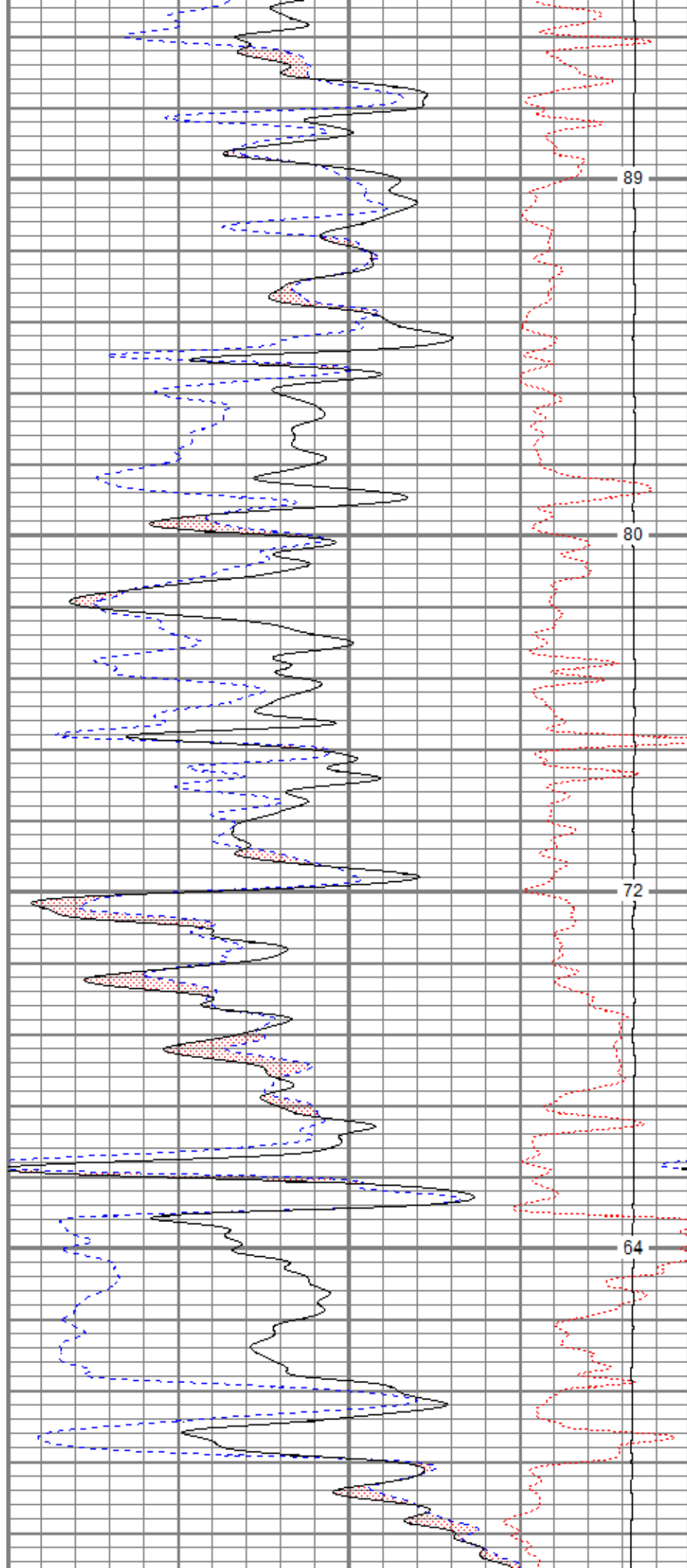


3300

3350

3400

3450

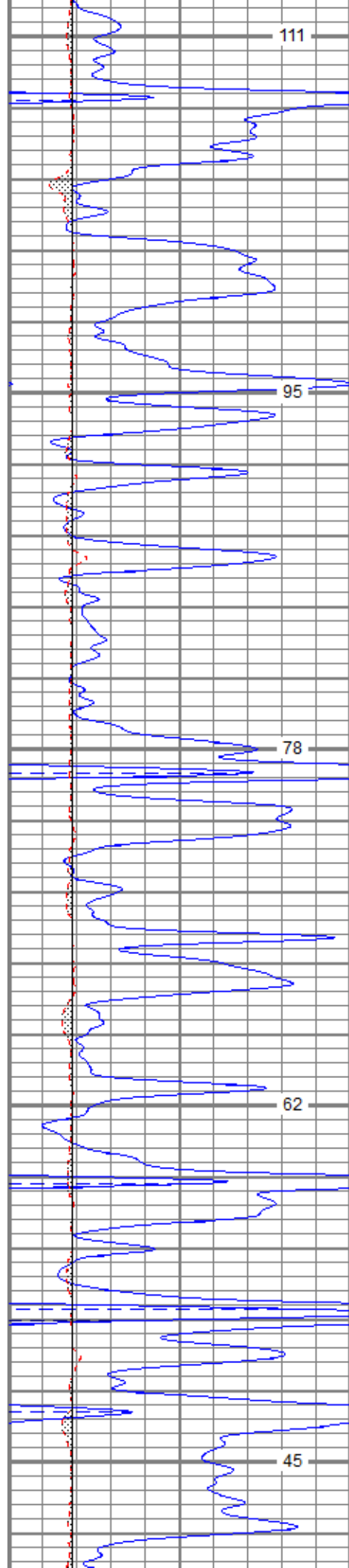


89

80

72

64



3500

3550

3600

3650

3700

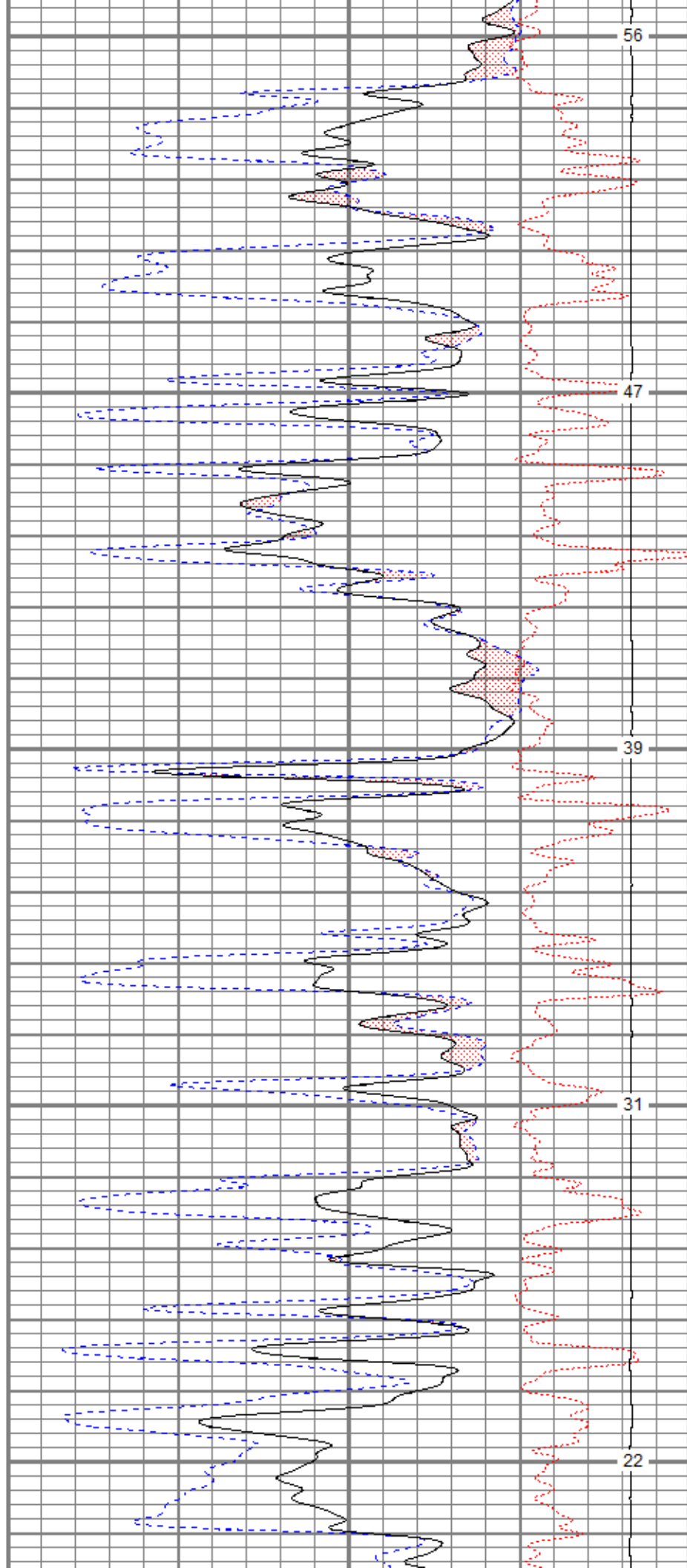
111

95

78

62

45



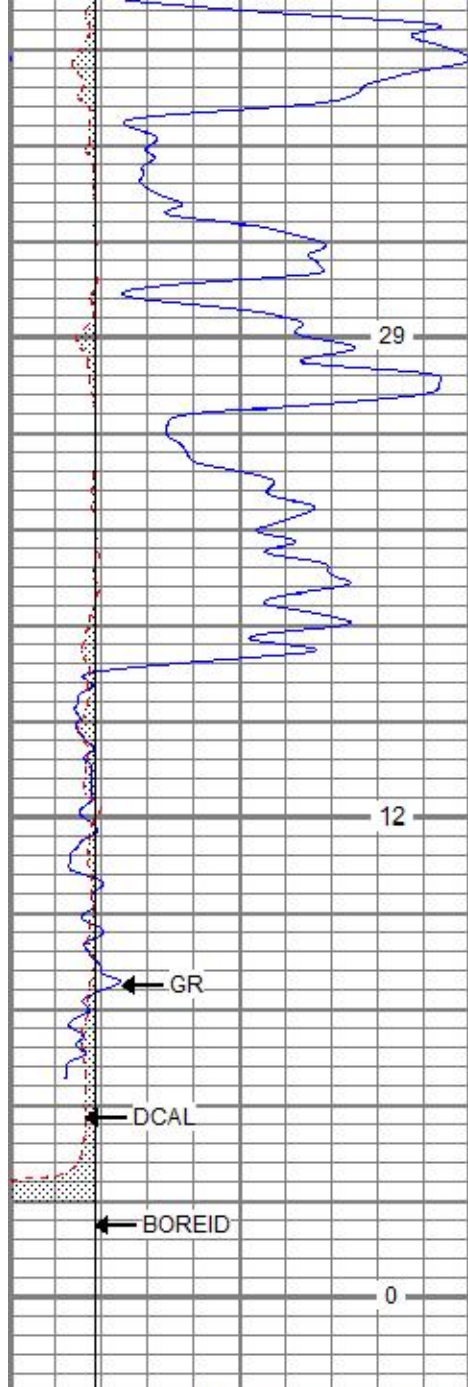
56

47

39

31

22

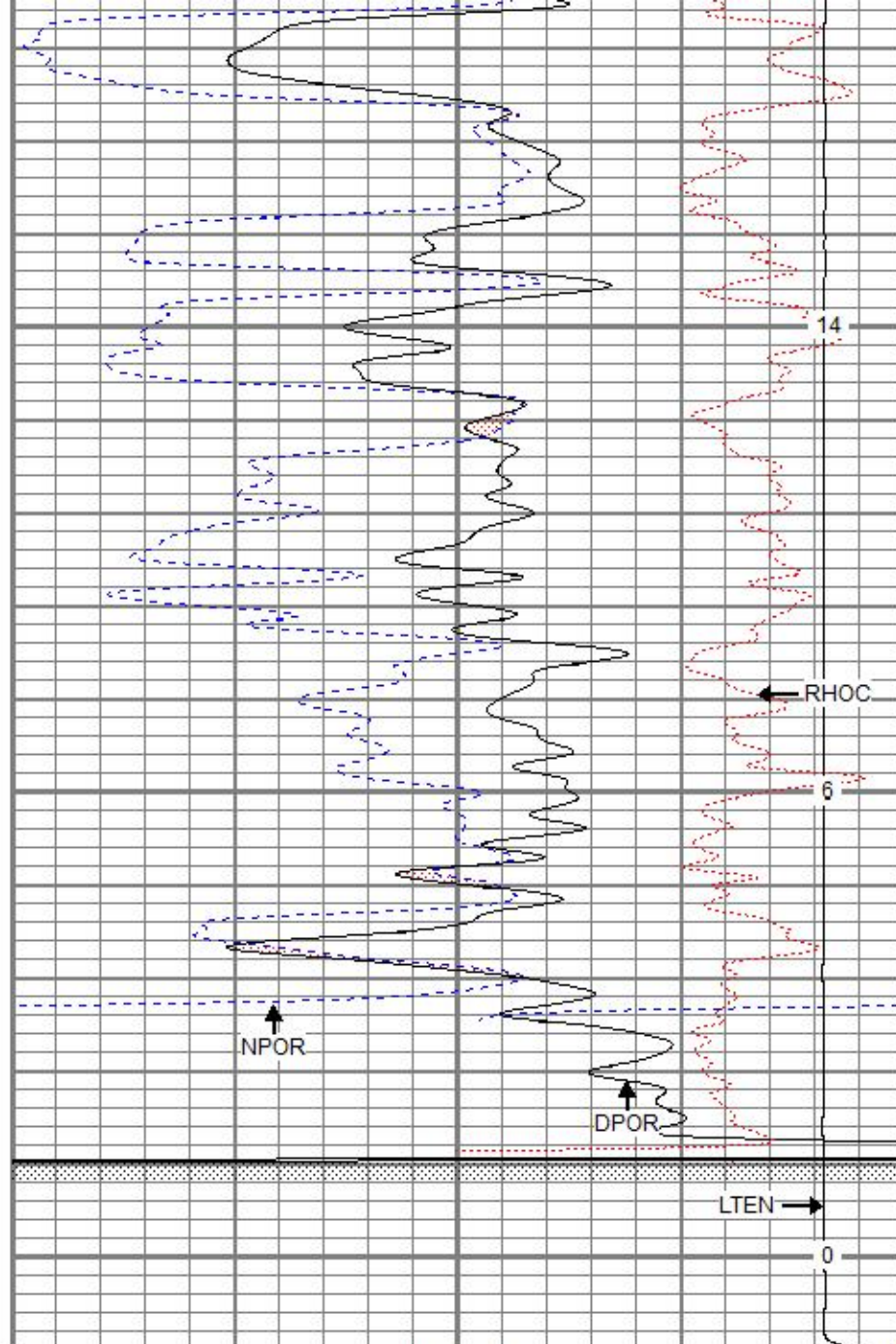


0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
TBHV (ft3)		

3750

3800

3850



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



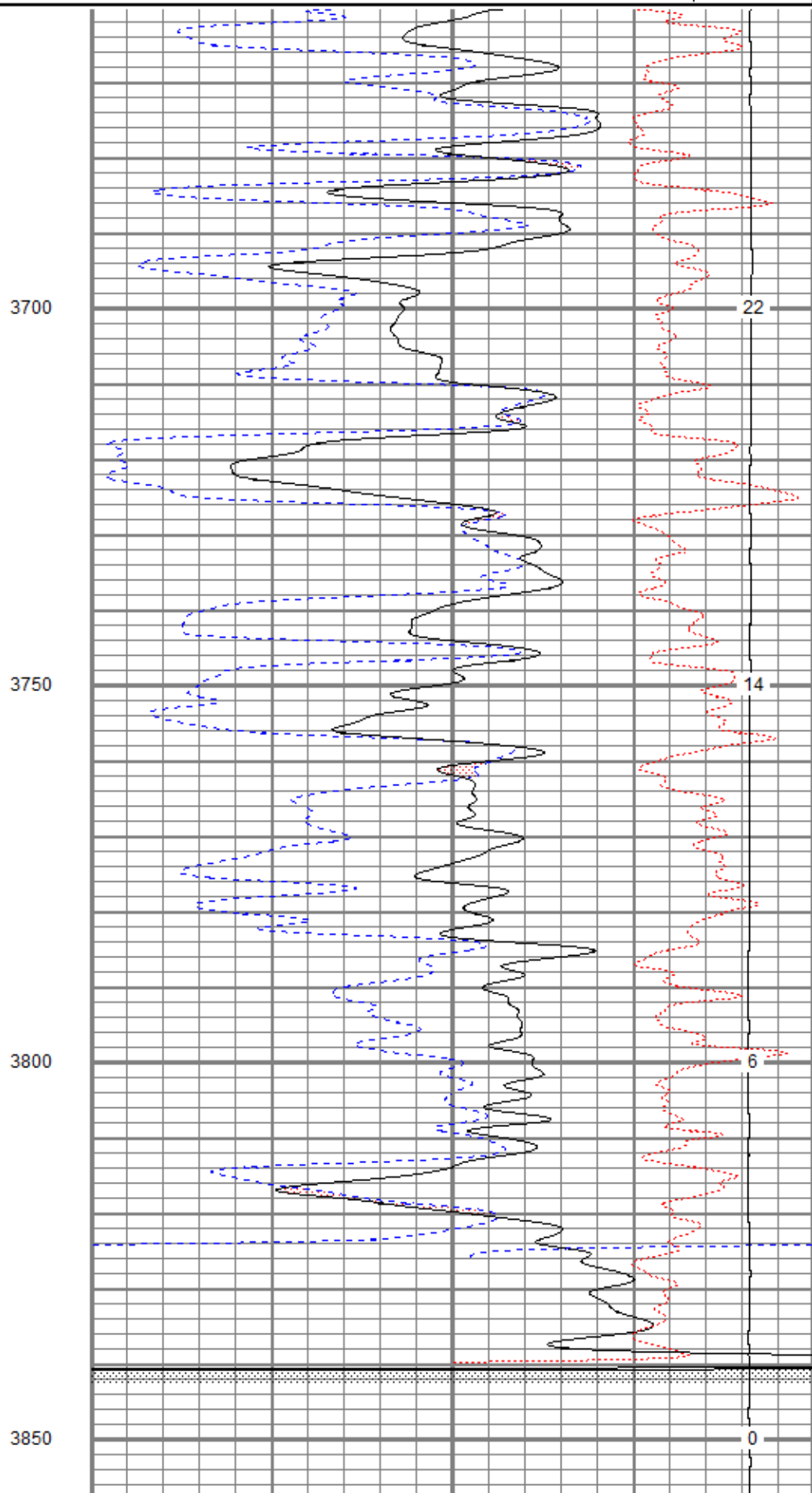
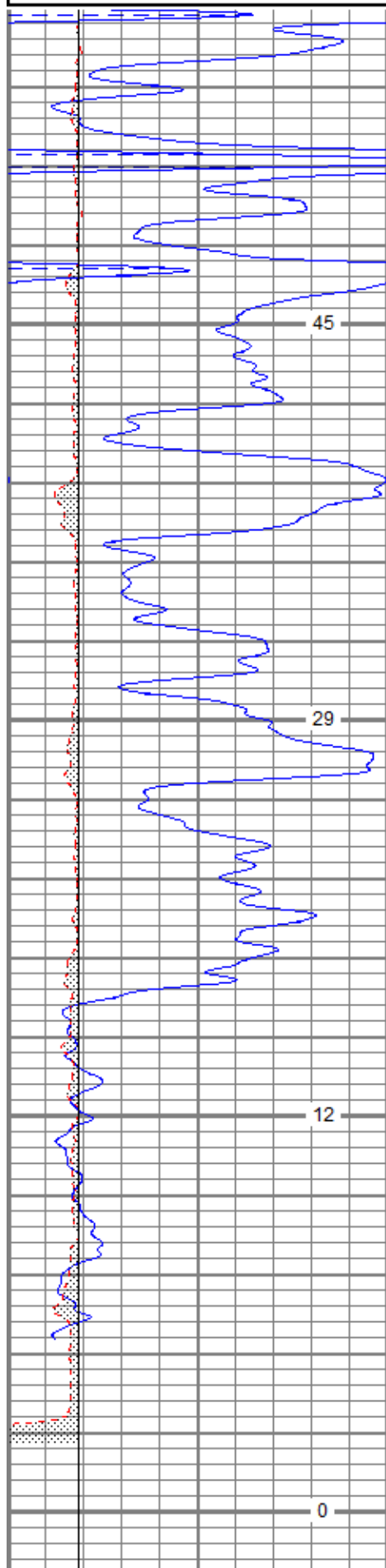
Repeat Section

Database File aomcfarland2oh.db
 Dataset Pathname pass1.1
 Presentation Format kcdnl
 Dataset Creation Sun May 06 09:11:30 2018
 Charted by Depth in Feet scaled 1:240

0	GR (GAPI)	150	30	NPOR (pu)	-10
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6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
TBHV (ft3)		

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



0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
6	BOREID (in)	16	-0.25	RHOC (g/cc)	0.25
	TBHV (ft3)		8000	LTEN (lb)	0
					ABHV (ft3)

Calibration Report		
Database File	aomcfarland2oh.db	
Dataset Pathname	pass2.1	
Dataset Creation	Sun May 06 09:24:53 2018	

Dual Induction Calibration Report		
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Serial-Model:	1989-ADM
Surface Cal Performed:	Wed Feb 14 05:11:38 2018
Downhole Cal Performed:	Wed Feb 14 05:12:25 2018
After Survey Verification Performed:	Wed Feb 14 05:12:25 2018

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.009	0.667	V	0.000	350.000	mmho/m	517.989	4.543
Medium	-0.004	0.750	V	0.000	400.000	mmho/m	530.106	2.252
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.009	0.665	V	0.000	350.000	mmho/m	519.279	4.570
Medium	-0.005	0.750	V	0.000	550.000	mmho/m	728.849	3.479

Downhole Calibration								
Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.003	350.326	mmho/m	-0.016	349.115	mmho/m	0.997	-0.019
Medium	-0.828	398.900	mmho/m	-0.278	399.748	mmho/m	1.001	0.551
Shallow	2.506	0.018	V	500.000	2.000	Ohm-m	205.206	-4.659

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.003	350.326	mmho/m	0.997	-0.019
Medium	0.000	0.000	mmho/m	-0.828	398.900	mmho/m	1.001	0.551
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report		
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Serial-Model:	2388DHT-DHT
Source / Verifier:	csv j12 / csv j12
Master Calibration Performed:	Sun Aug 13 21:51:41 2017
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	825.09	253.60	cps
Aluminum	2.680	g/cc	159.18	174.22	cps

Spine Angle = 77.15

Density/Spine Ratio = 0.551

	Size		Reading
Small Ring	7.90	in	5982.32
Large Ring	16.00	in	10612.00
Before Survey Verification			
	Target		Measured
		g/cc	g/cc
		g/cc	g/cc
		g/cc	g/cc
After Survey Verification			
	Target		Measured
		g/cc	g/cc
		g/cc	g/cc
		g/cc	g/cc

Gamma Ray Calibration Report

Serial Number: 2001
 Tool Model: OH
 Performed: Sun Nov 12 16:26:41 2017

 Calibrator Value: 1.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

 Sensitivity: 0.7000 GAPI/cps

Neutron Calibration Report

Serial Number: 5109
 Tool Model: P
 Performed: Mon Feb 06 08:44:38 2012

 Calibrator Value: 1 NAPI

 Calibrator Reading: 1 cps

 Sensitivity: 1 NAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
NEU	36.92		CHD-None	0.75	1.50	5.00
			NEU-P (5109) Probe	4.92	3.63	85.00
GR	30.56		GR-OH (2001) 2001	3.56	3.25	40.00
			CDL-DHT (2388DHT) Digital High Temp CDL Tool	9.69	4.00	201.00
LSD	22.02					
DCAL	21.73					
SSD	21.48					
HEADVOLT	19.71					

HEADVOLE	19.71					
SP	10.60					
CILD	10.60			DIL-ADM (1989) Dual Induction	19.71	4.00
CILM	6.89					
RLL3	1.70					
Dataset: aomcfarland2oh.db: field/well/run1/pass2.1 Total length: 38.63 ft Total weight: 631.00 lb O.D.: 4.00 in						