



COMPENSATED DENSITY NEUTRON LOG

Company	John O Farmer Inc.	Company	John O Farmer Inc.
Well	Clack Unit #1	Well	Clack Unit #1
Field	Morel	Field	Morel
County	Graham	County	Graham
State	Kansas	State	Kansas
Location:	API # : 15 065 24218		Other Services
	245' FNL & 4290' FEL		DIL
	SEC 16 TWP 9S RGE 21W		ML
Permanent Datum	Ground Level	Elevation	Elevation
Log Measured From	KB 8' AGL	2227'	K.B. 2235'
Drilling Measured From	KB		D.F. 2234'
			G.L. 2227'
Date	6/27/22		
Run Number	One		
Depth Driller	3810'		
Depth Logger	3814'		
Bottom Logged Interval	3792'		
Top Log Interval	3100'		
Casing Driller	8 5/8" @ 223'		
Casing Logger	223'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/57		
pH / Fluid Loss	10.5/8.0		
Source of Sample	Calculated		
Rm @ Meas. Temp	1.4@70degf		
Rmf @ Meas. Temp	1.1@70degf		
Rmc @ Meas. Temp	1.8@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.85@116degf		
Time Circulation Stopped	3:00 p.m		
Time Logger on Bottom	4:45 p.m		
Maximum Recorded Temperature	116degf		
Equipment Number	T-127		
Location	Hays, KS		
Recorded By	C.Patterson		
Witnessed By	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

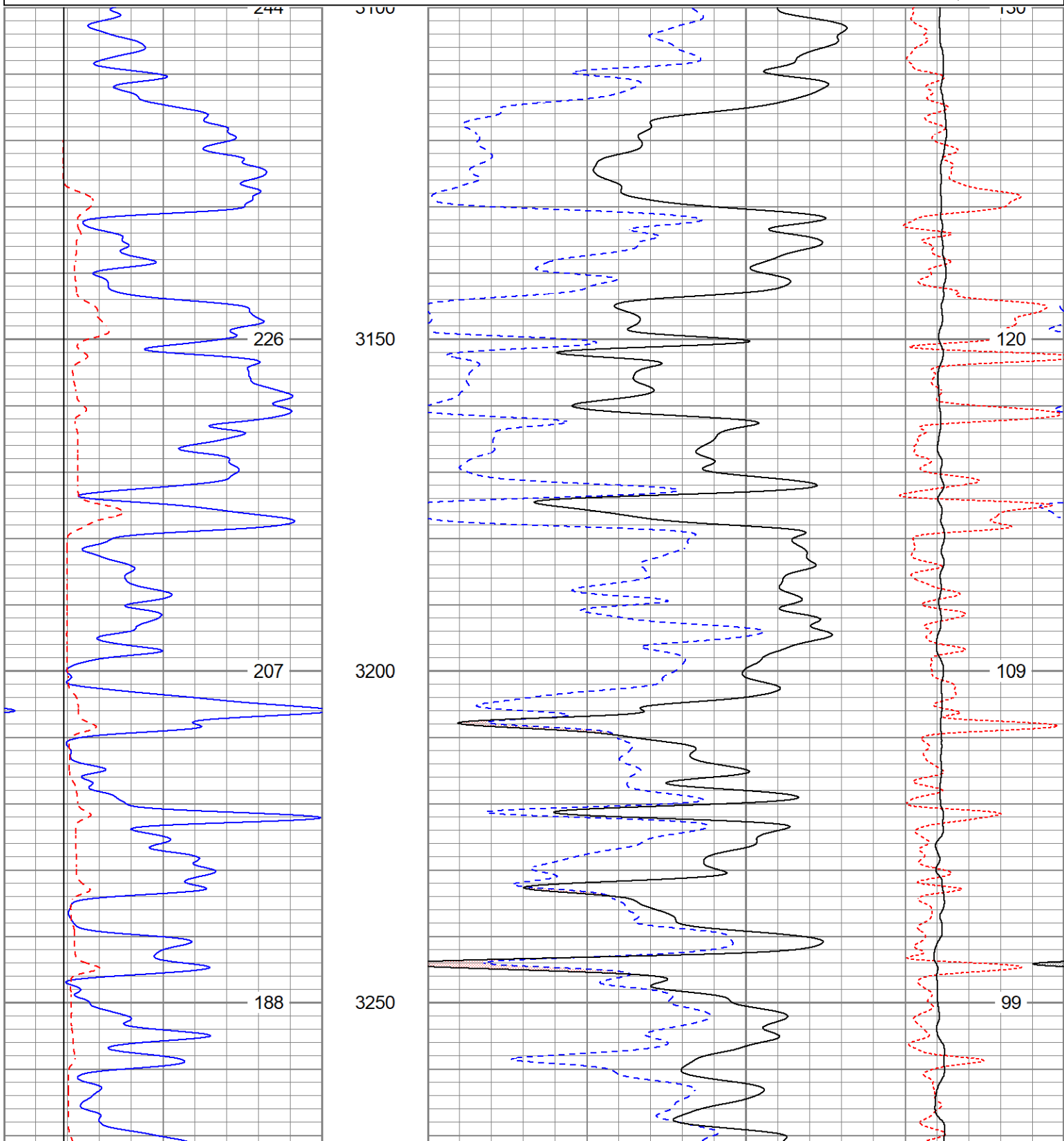
South of Palco,KS to Red Line Road(X Rd.), West 5 mi to 370th Rd,
North on 370th3 mi to K Rd, West on K Rd 1.5 mi,
South into Location
Thanks for using Gemini Wireline LLC
785-625-1182

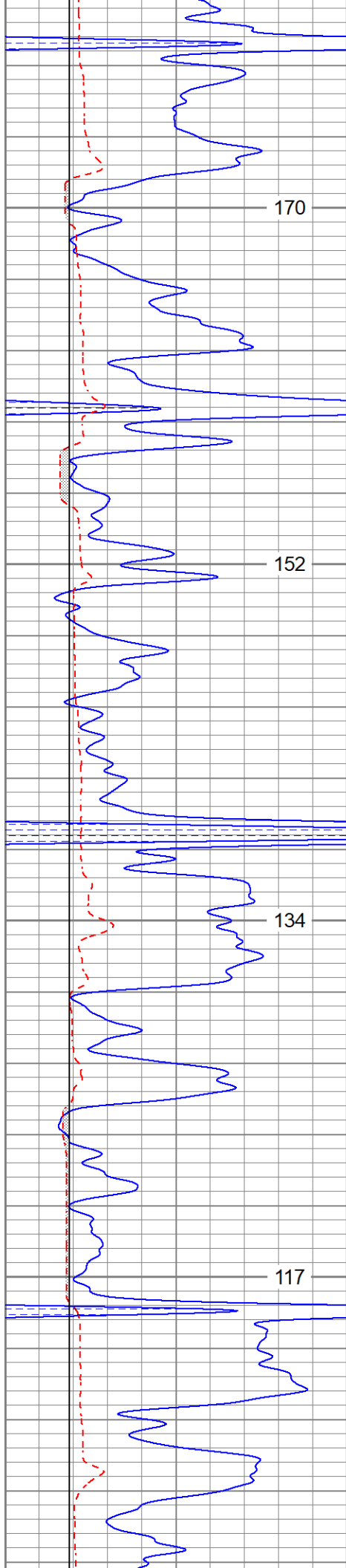


MAIN PASS

Database File	jofclackunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	kcdnl
Dataset Creation	Mon Jun 27 18:00:30 2022
Charted by	Depth in Feet scaled 1:240

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)



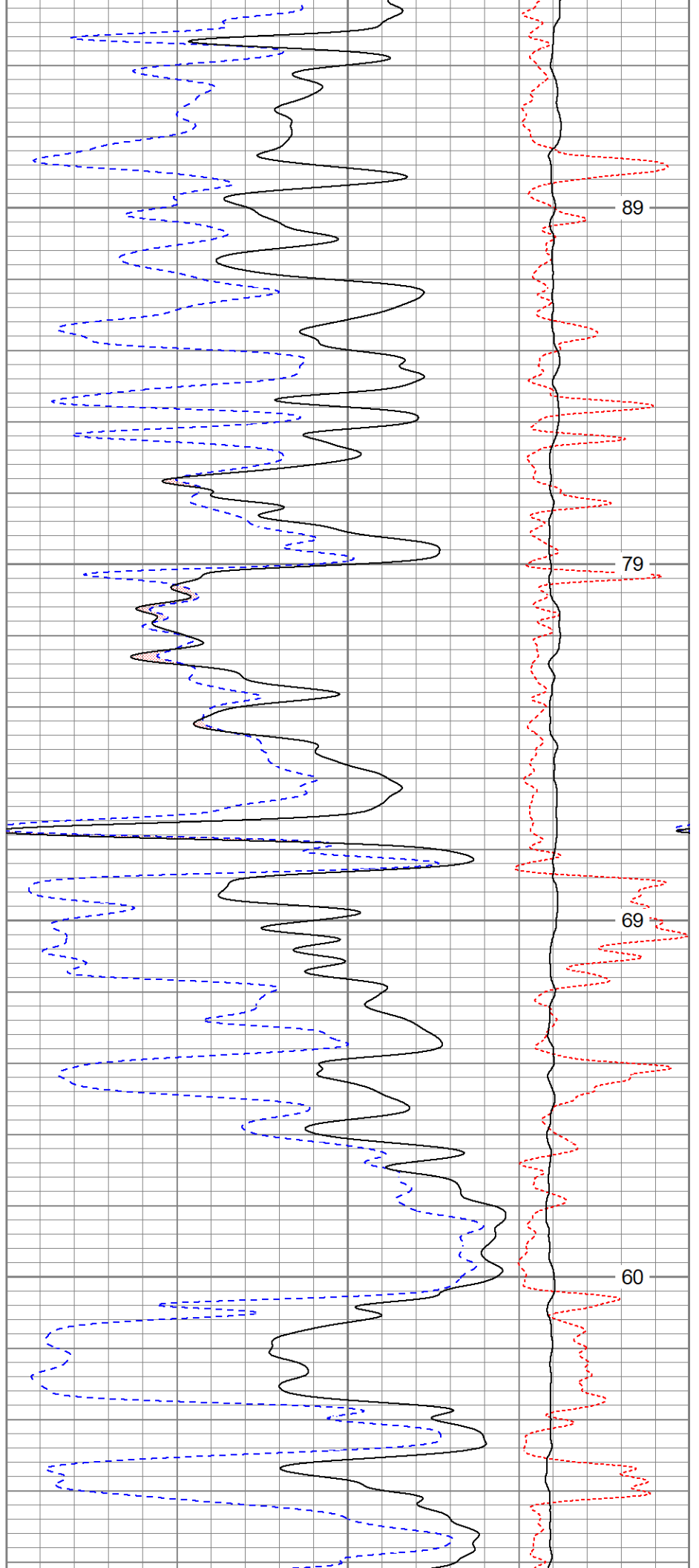


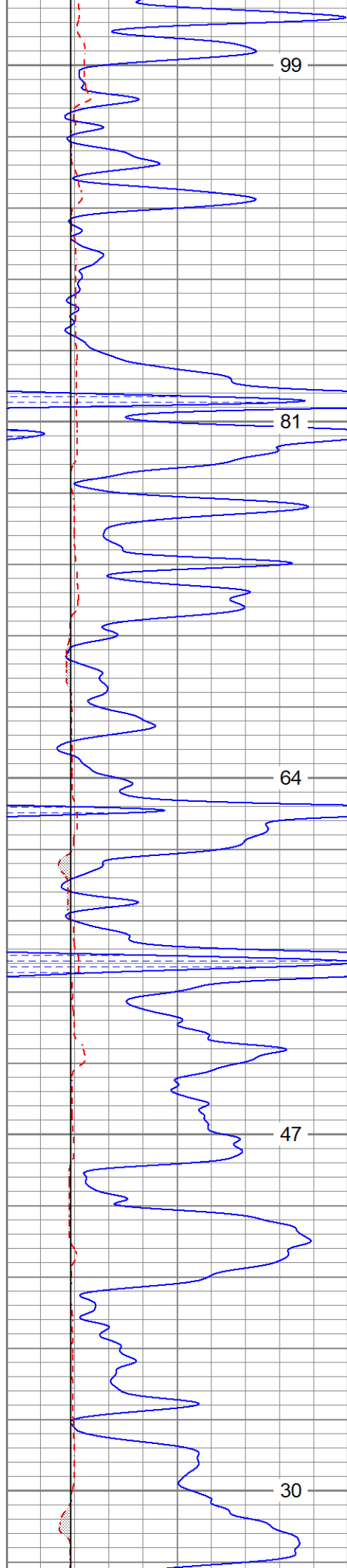
3300

3350

3400

3450





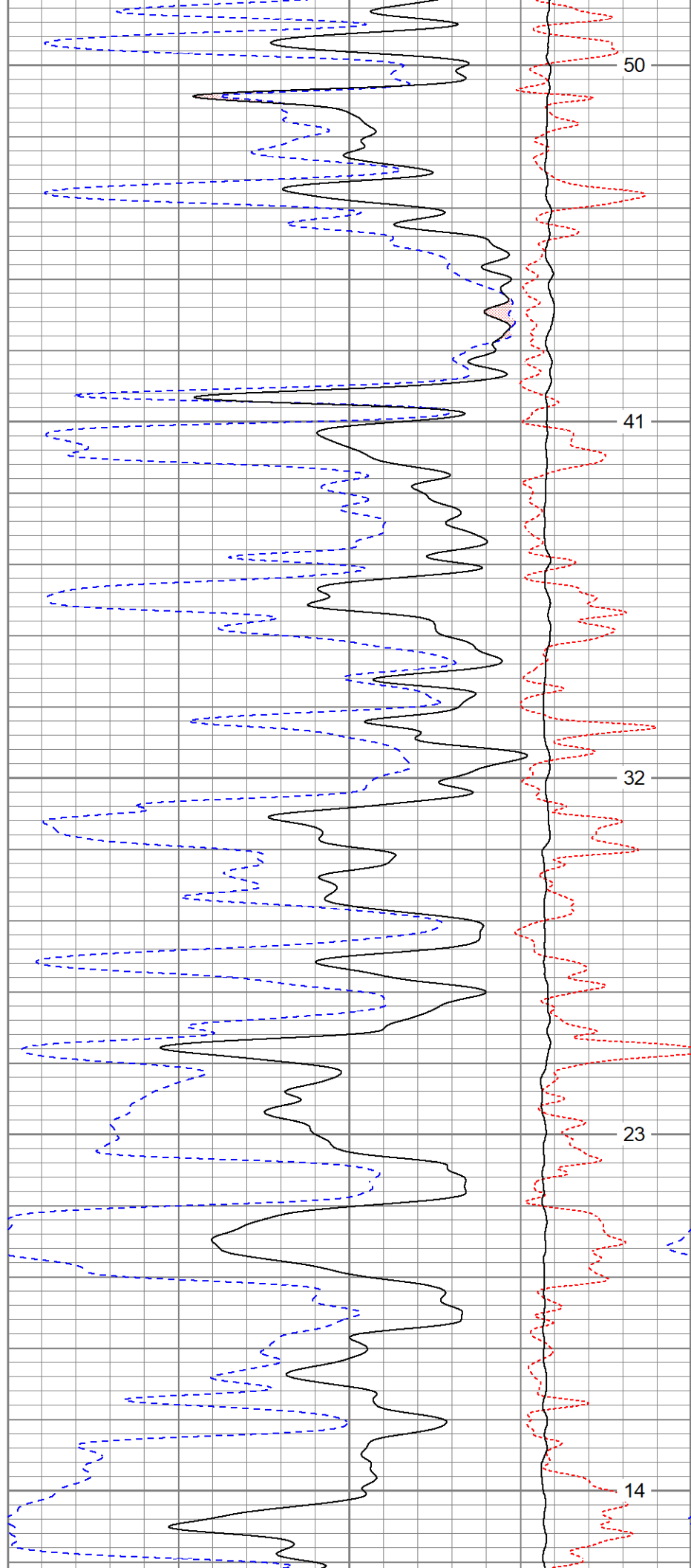
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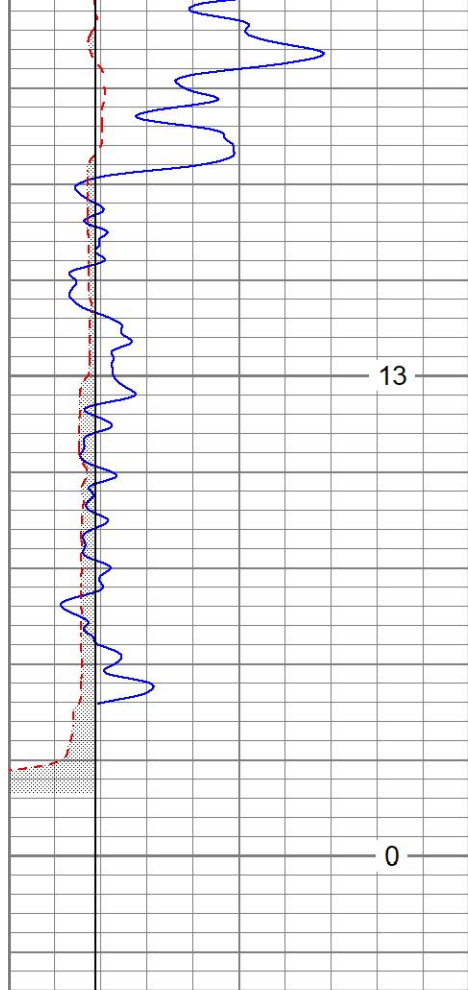
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3600

3650

3700

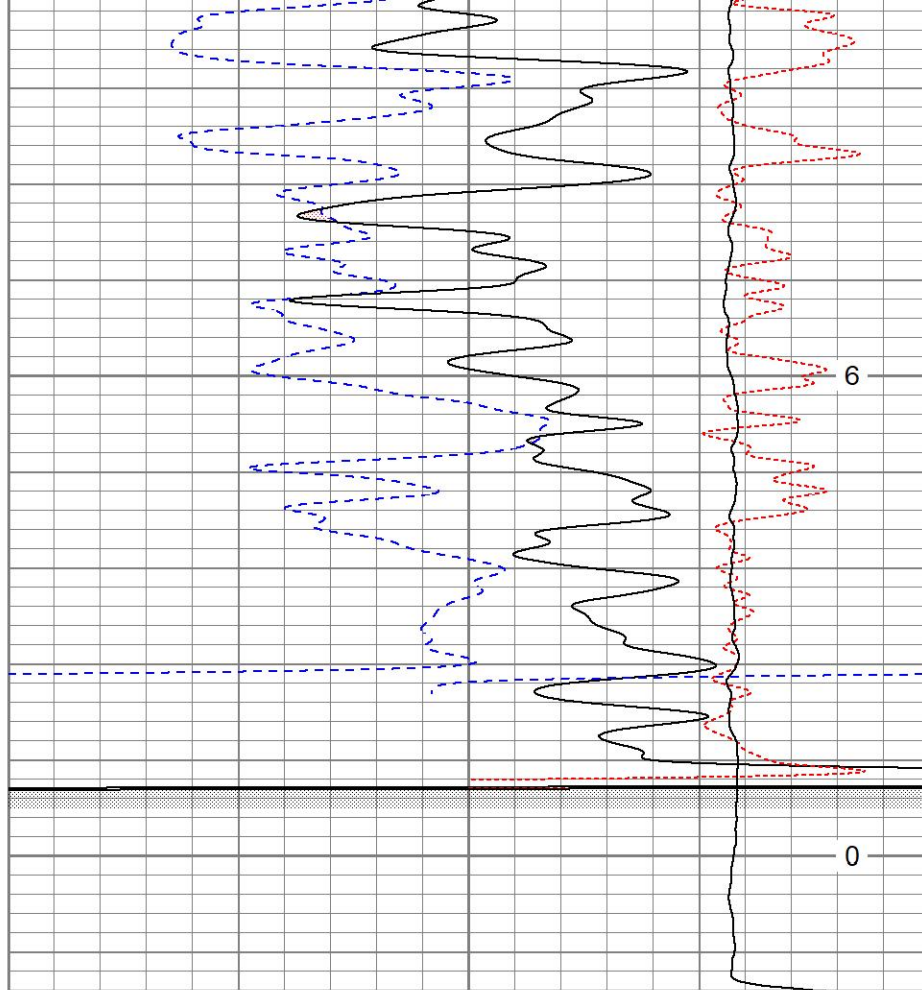




0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
TBHV (ft3)		

3750

3800



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)		

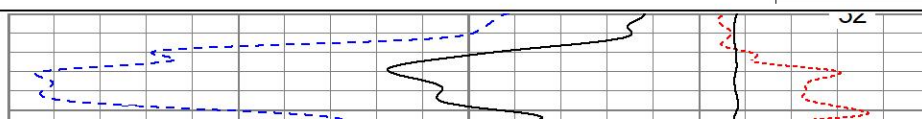
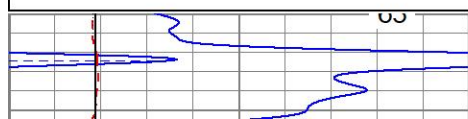


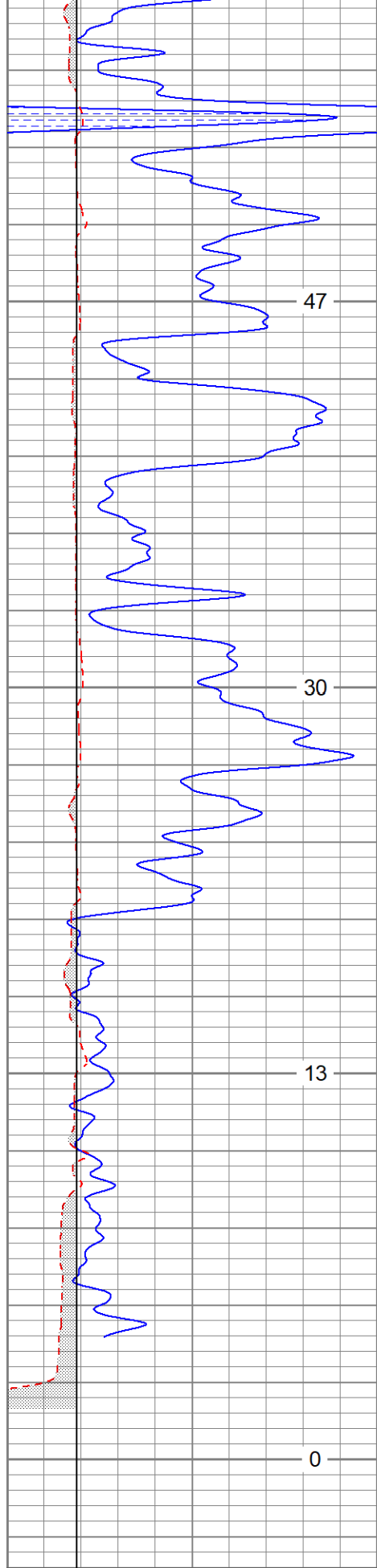
REPEAT SECTION

Database File jofclackunit#1oh.db
 Dataset Pathname pass1.2
 Presentation Format kcdnl
 Dataset Creation Mon Jun 27 17:58:38 2022
 Charted by Depth in Feet scaled 1:240

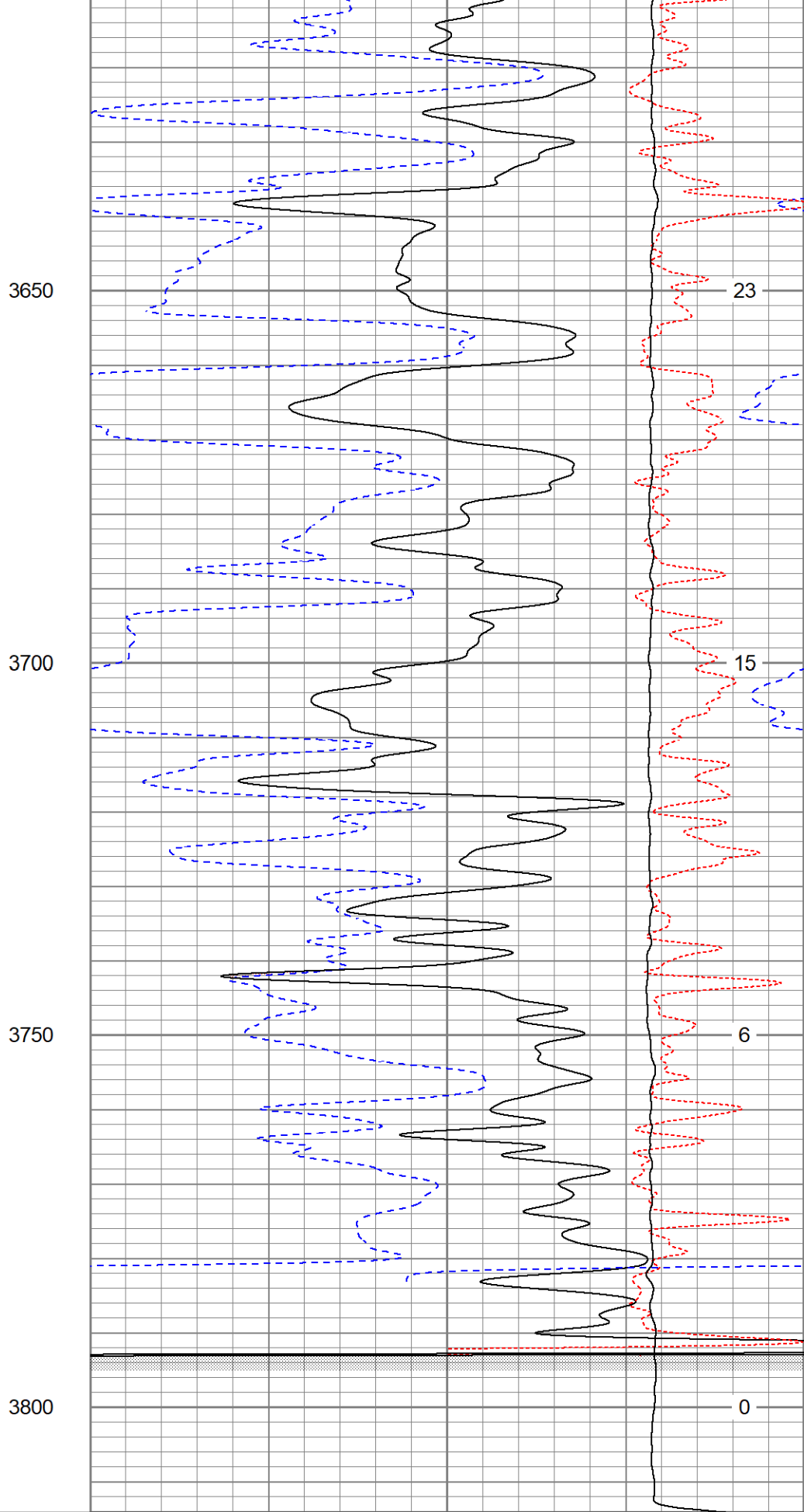
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
6	BOREID (in)	16
TBHV (ft3)		

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)		





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



30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
0.25	RHOC (g/cc)	0.25

BORLID (in)	10	-0.25	RIOC (g/cc)	0.25
TBHV (ft3)		8000	LTEN (lb)	0
			ABHV (ft3)	

Calibration Report	
Database File	jofclackunit#1oh.db
Dataset Pathname	pass2.1
Dataset Creation	Mon Jun 27 18:00:30 2022

Dual Induction Calibration Report	
Serial-Model:	0352-ADM
Surface Cal Performed:	Mon Sep 20 22:00:42 2021
Downhole Cal Performed:	Wed Mar 30 09:59:17 2022
After Survey Verification Performed:	Wed Mar 30 09:59:17 2022

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088

Downhole Calibration								
Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-9.739	334.888	mmho/m	-0.343	349.810	mmho/m	1.016	9.552
Medium	-0.093	389.879	mmho/m	-0.226	399.745	mmho/m	1.026	-0.132
Shallow	2.545	0.014	V	500.000	2.000	Ohm-m	200.757	-0.781

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-9.739	334.888	mmho/m	1.016	9.552
Medium	0.000	0.000	mmho/m	-0.093	389.879	mmho/m	1.026	-0.132
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report	
Serial-Model:	2213TN-Aoilex
Source / Verifier:	csv14274c /
Master Calibration Performed:	Tue May 3 10:56:34 2022
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	793.74	537.95	cps
Aluminum	2.690	g/cc	145.37	342.35	cps
Spine Angle = 75.09			Density/Spine Ratio = 0.535		

	Size		Reading	
Small Ring	8.00	in	1.40	V
Large Ring	14.00	in	2.83	V
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:	2213TN			
Tool Model:	Aoilex			
Performed:	(Not Performed)			
Calibrator Value:	1.0		GAPI	
Background Reading:	0.0		cps	
Calibrator Reading:	1.0		cps	
Sensitivity:	1.0000		GAPI/cps	
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	