



COMPENSATED DENSITY NEUTRON LOG

Company Russell Oil, Inc.

Well Edwards Trust 'E' No. 26-1

Field Wildcat

County Logan State Kansas

Location: API #: 15-109-21, 497-00-00

SEC 26 TWP 15S RGE 35W

Permanent Datum Ground Level Elevation 3107'

Log Measured From KB 5' AGL

Drilling Measured From KB

Other Services
DIL
MICRO

Elevation

K.B. 3112'

D.F.

G.L. 3107'

Date 5/9/2017

Run Number One

Depth Driller 4730'

Depth Logger 4736'

Bottom Logged Interval 4713'

Top Log Interval 3600'

Casing Driller 338'

Casing Logger 338'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.4/64

pH / Fluid Loss 10.0/8.0

Source of Sample Pit

Rm @ Meas. Temp .62@75degf

Rmf @ Meas. Temp .47@75degf

Rmc @ Meas. Temp .84@75degf

Source of Rmf / Rmc Calculated

Rm @ BHT 0.41@degf123

Time Circulation Stopped 8:30 a.m.

Time Logger on Bottom 9:00 a.m.

Maximum Recorded Temperature 123degf

Equipment Number T-729

Location Hays, KS

Recorded By Chris Desaire

Witnessed By Kitt Noah

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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

Pence KS,
5 W to 23 Rd, N to Bison Rd, 1/2 N, W Into



MAIN PASS

Database File roedwardstruste26-1oh.db
 Dataset Pathname pass3.12
 Presentation Format kcdnl
 Dataset Creation Tue May 09 09:36:58 2017
 Charted by Depth in Feet scaled 1:240

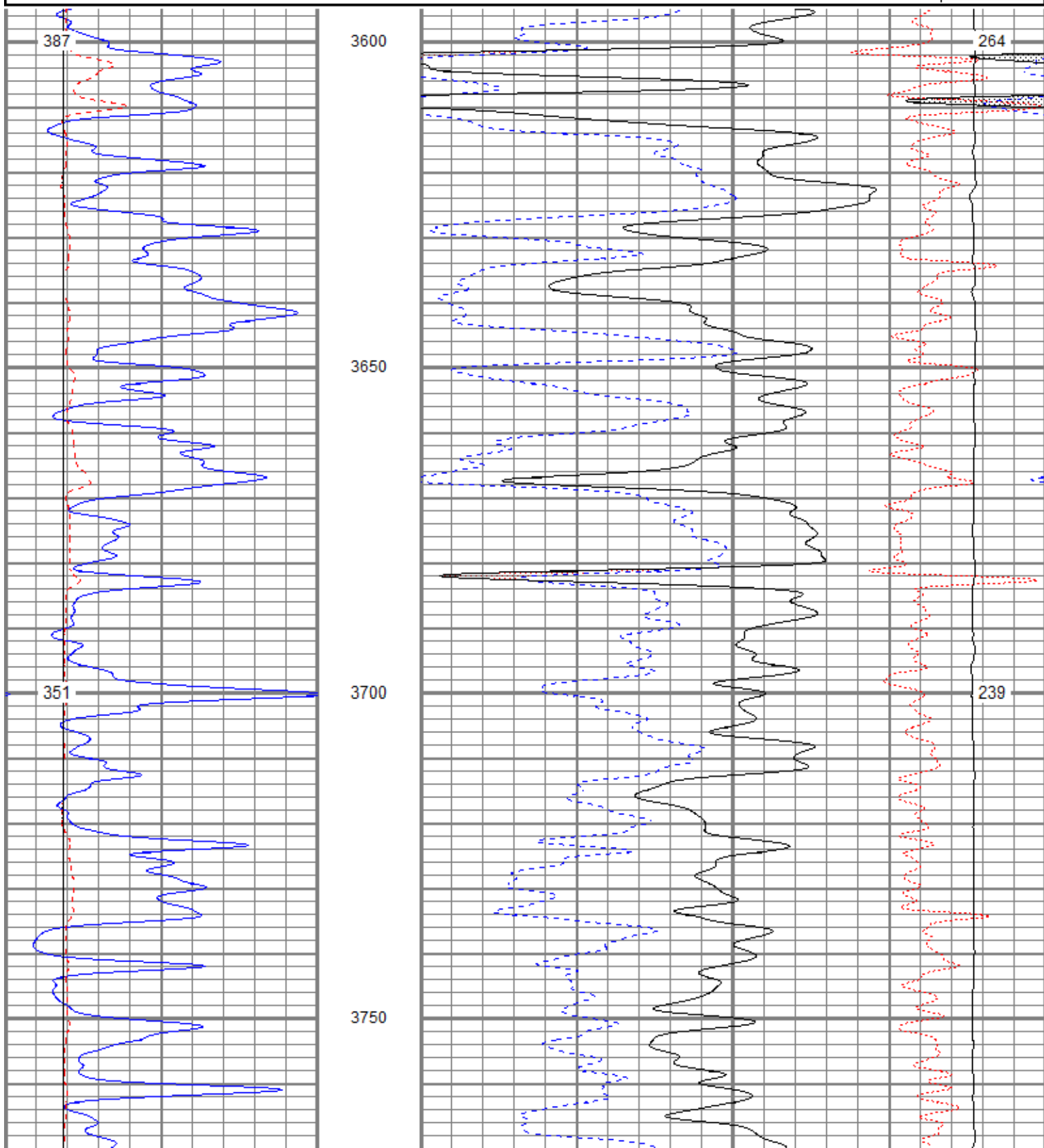
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

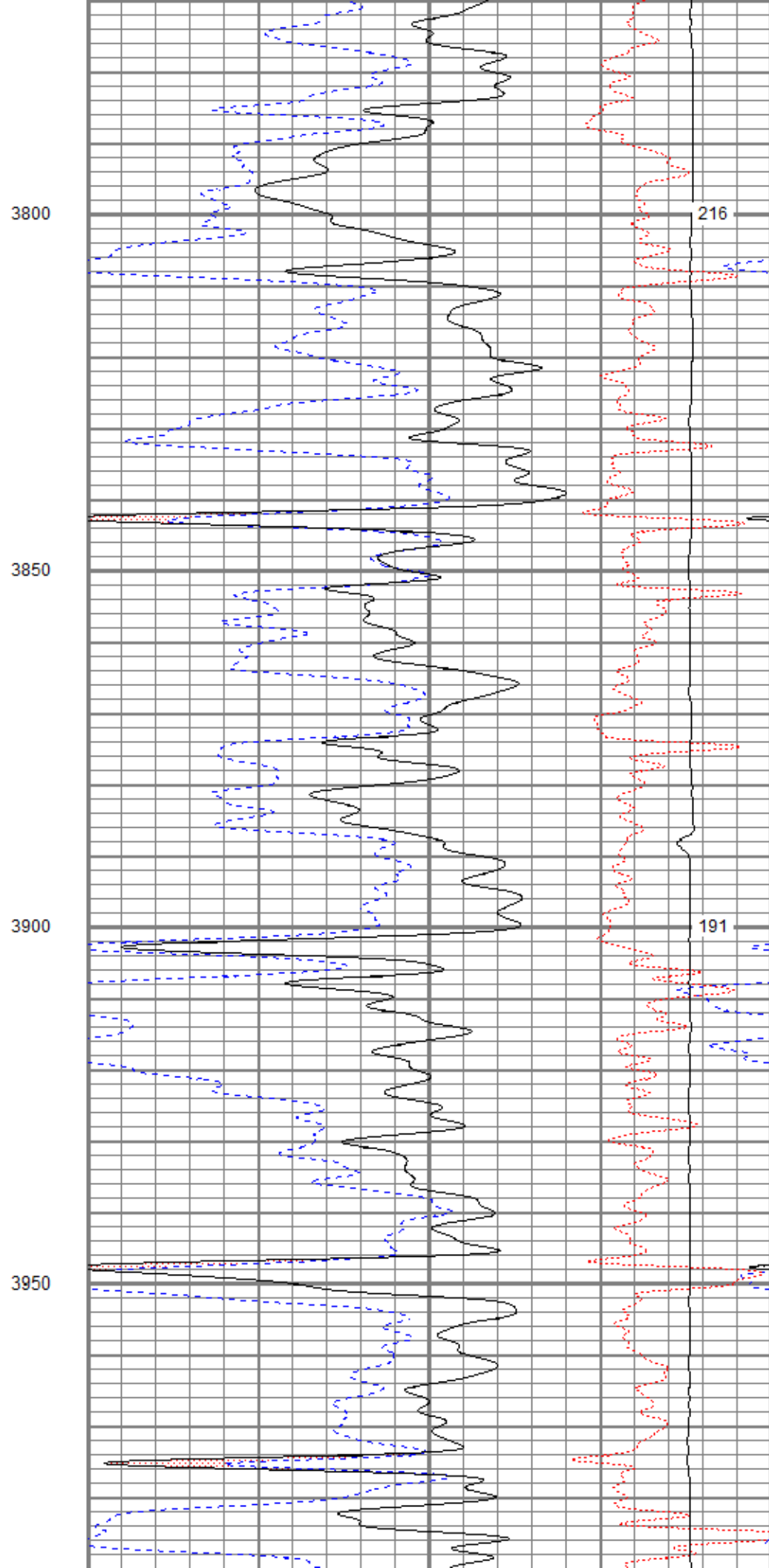
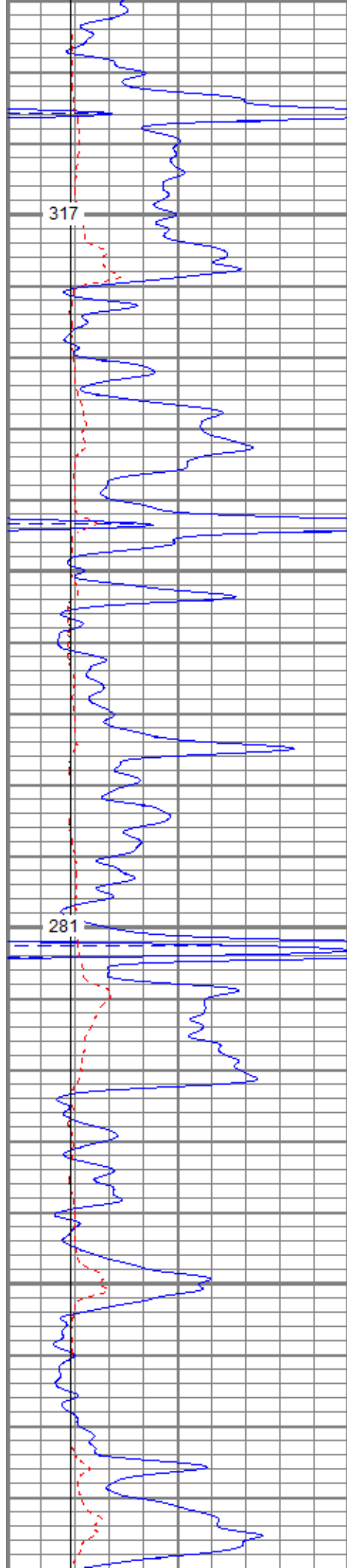
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

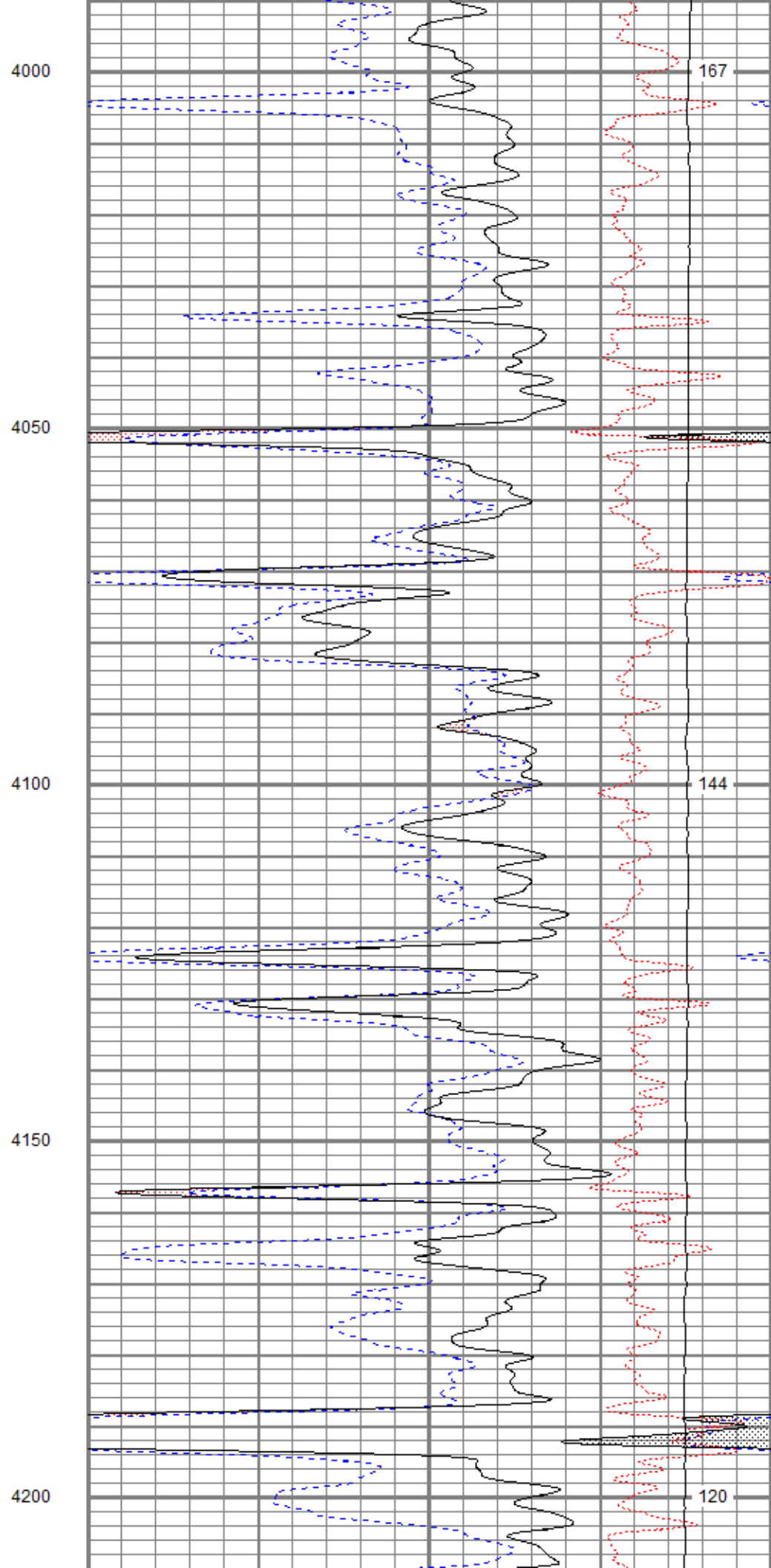
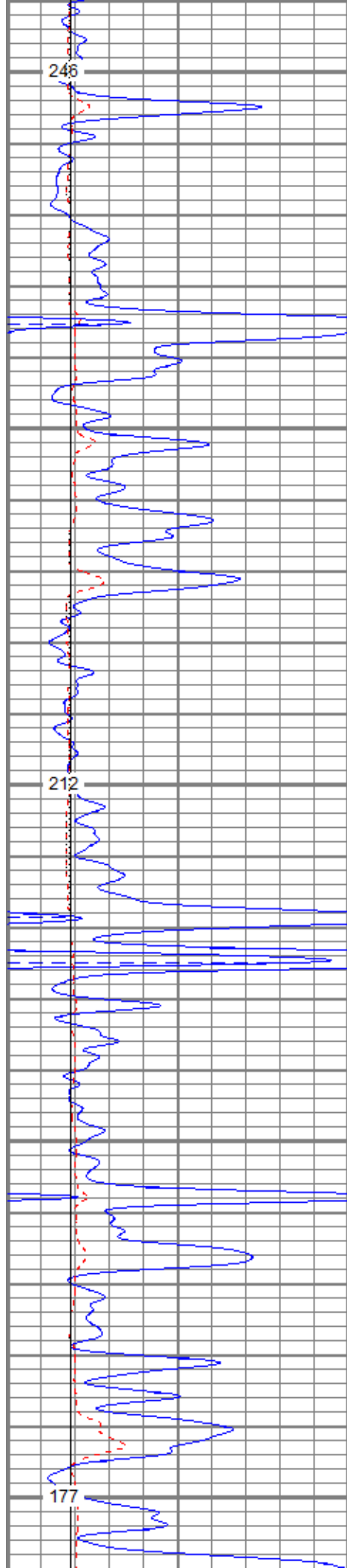
TBHV (ft3)

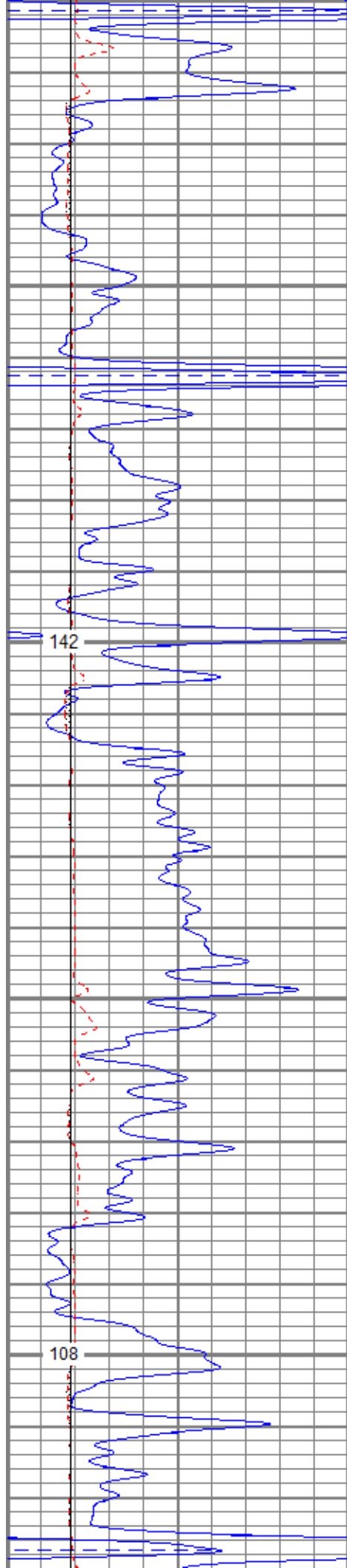
-0.25	RHOC (g/cc)	0.25
10000	LTEN (lb)	0

ABHV (ft3)







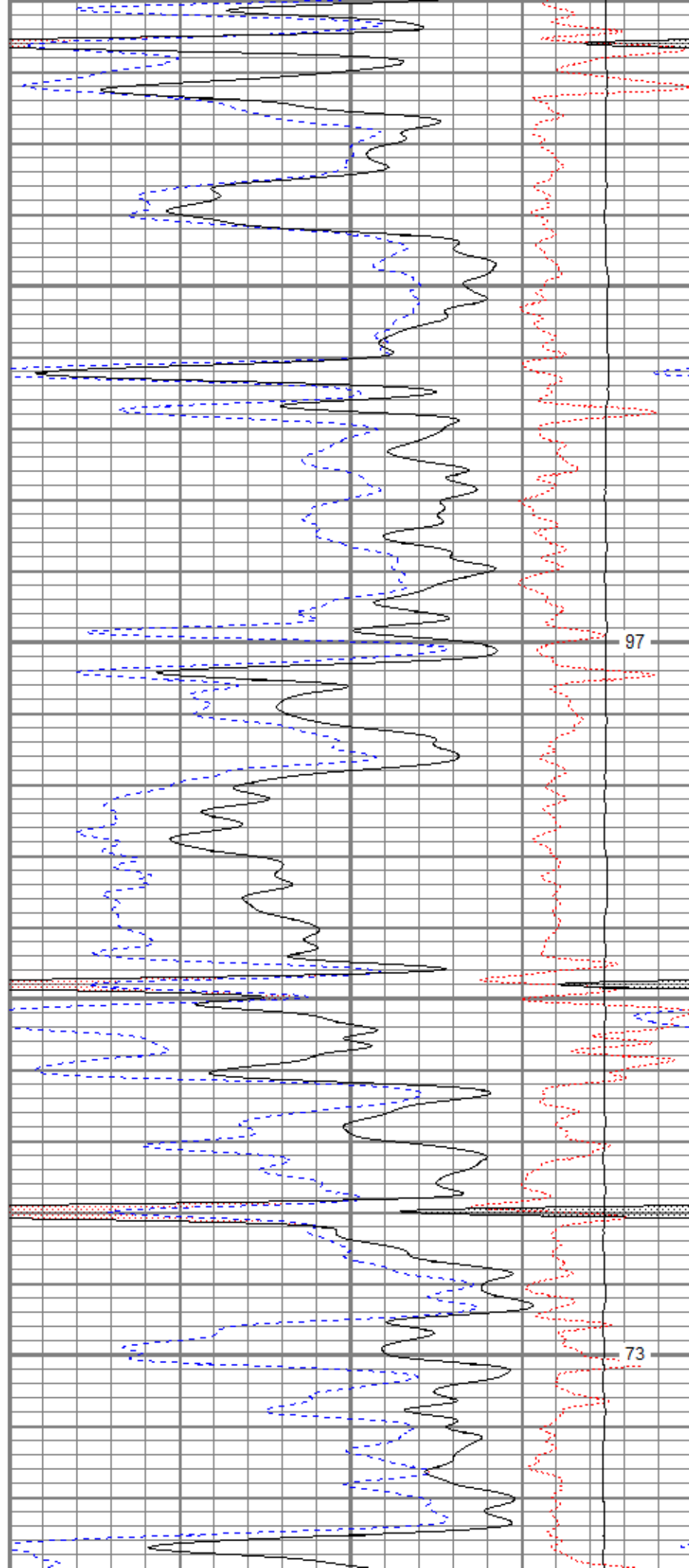


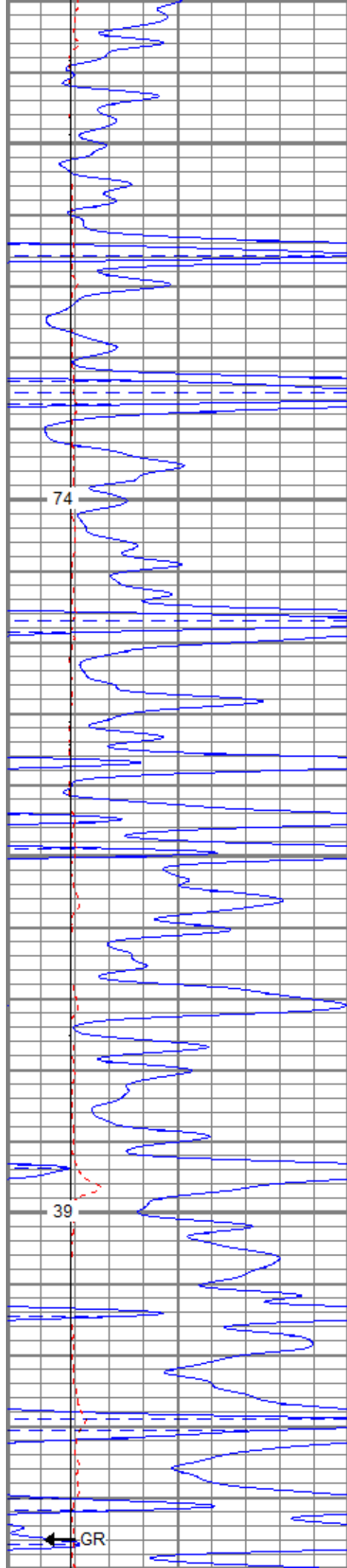
4250

4300

4350

4400





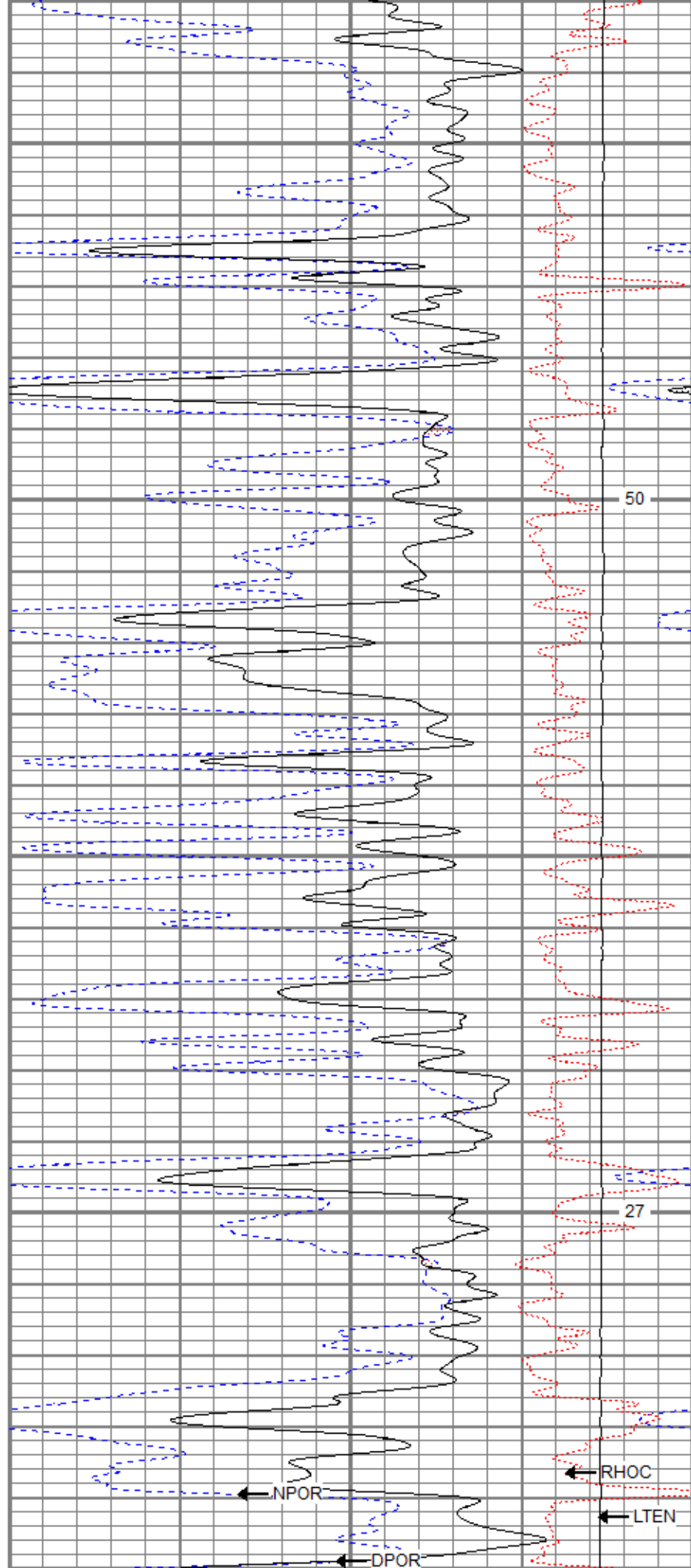
4450

4500

4550

4600

4650



50

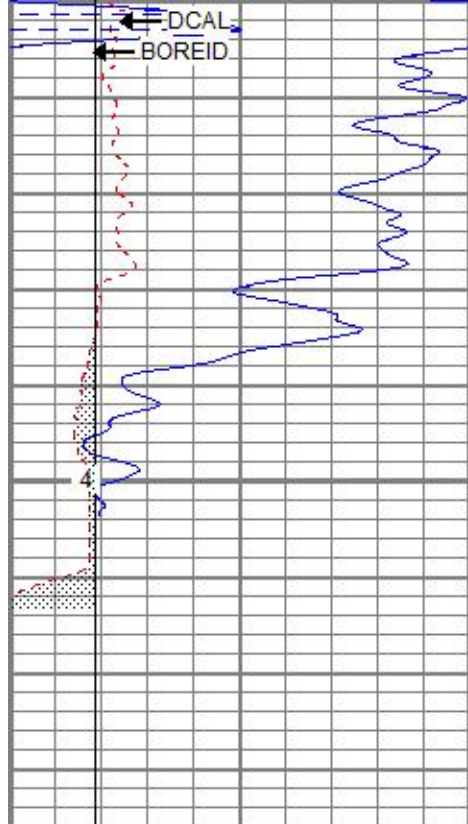
27

NPOR

DPOR

RHOC

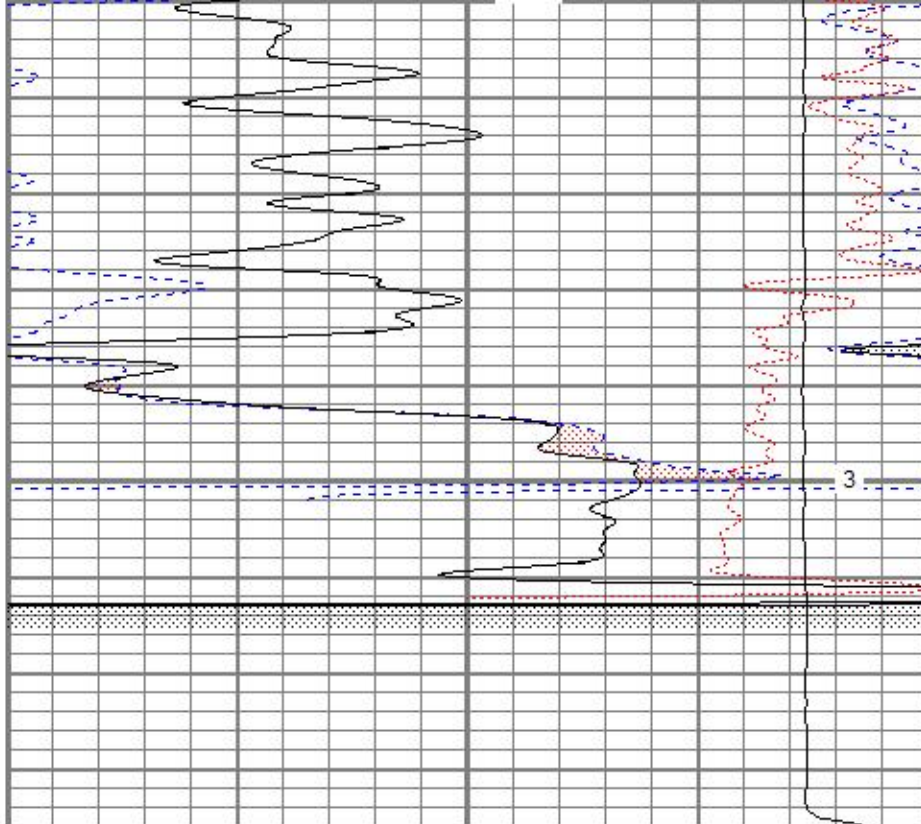
LTEN



4700

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

TBHV (ft3)



3

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

-0.25	RHOC (g/cc)	0.25
10000	LTEN (lb)	0

ABHV (ft3)



REPEAT PASS

Database File roedwardstruste26-1oh.db
 Dataset Pathname pass2.11
 Presentation Format kcdnl
 Dataset Creation Tue May 09 09:50:14 2017
 Charted by Depth in Feet scaled 1:240

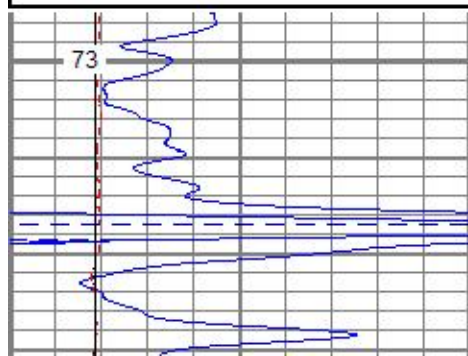
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

TBHV (ft3)

30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

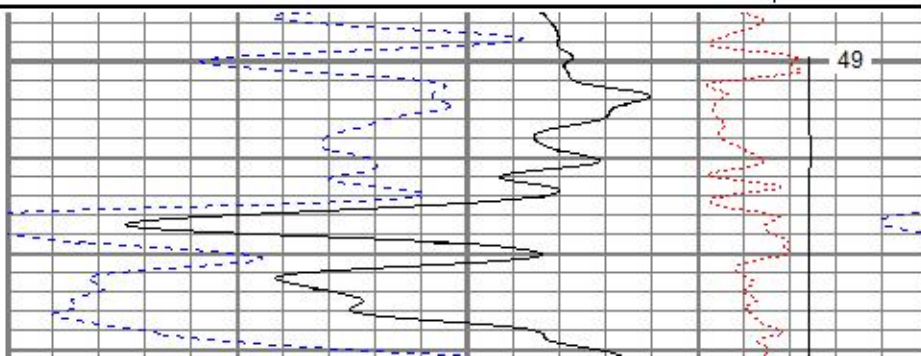
-0.25	RHOC (g/cc)	0.25
10000	LTEN (lb)	0

ABHV (ft3)

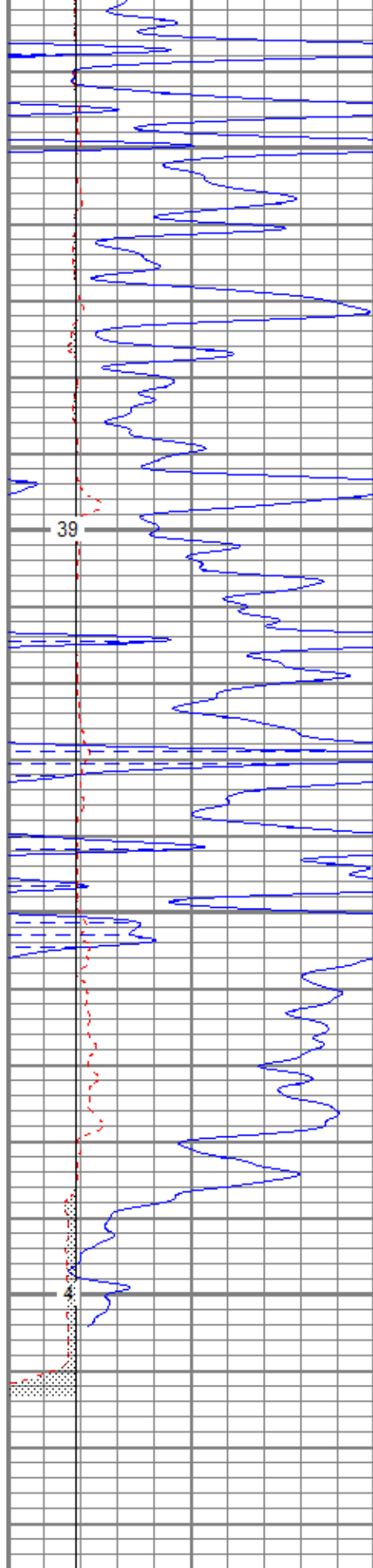


73

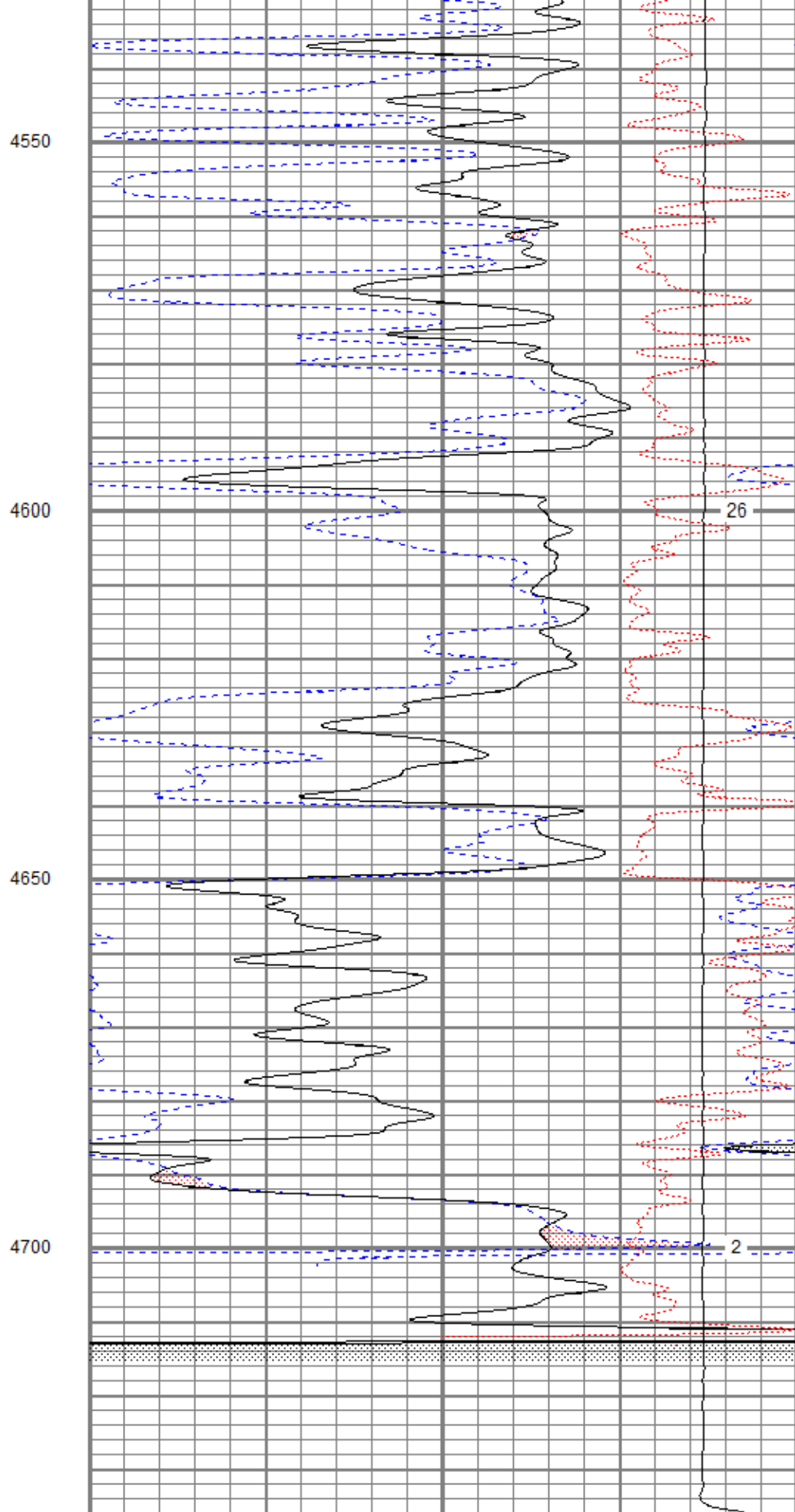
4500



49



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



30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

ABHV (ft3)	-0.23	RHOc (g/cc)	0.23
	10000	LTEN (lb)	0
		ABHV (ft3)	

Calibration Report	
Database File	roedwardstruste26-1oh.db
Dataset Pathname	pass3.12
Dataset Creation	Tue May 09 09:36:58 2017

Dual Induction Calibration Report

Serial-Model:	080522-Probe
Surface Cal Performed:	Thu Oct 08 10:16:27 2015
Downhole Cal Performed:	Thu Oct 08 10:17:08 2015
After Survey Verification Performed:	Thu Oct 08 10:17:08 2015

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.641	V	0.000	400.000	mmho/m	624.950	-0.824
Medium	0.004	0.742	V	0.000	464.000	mmho/m	628.752	-2.706
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.641	V	0.000	400.000	mmho/m	625.200	-0.870
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.931	-2.579

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.282	399.760	mmho/m	0.046	399.886	mmho/m	1.001	-0.237
Medium	-0.077	464.284	mmho/m	-0.123	464.484	mmho/m	1.001	-0.046
LL3		7.298	V		750.000	Ohm-m		
		0.004	V		12.000	Ohm-m		
		-7.329	V		3745.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.282	399.760	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-0.077	464.284	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		750.000	Ohm-m		
		0.000	Ohm-m		12.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Density Calibration Report
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Serial-Model:	2113TN-Aoilex
Source / Verifier:	csv n-20 /
Master Calibration Performed:	Thu Jun 09 06:25:13 2016
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	466.46	301.08	cps
Aluminum	2.690	g/cc	85.94	195.82	cps
Spine Angle = 75.73			Density/Spine Ratio = 0.539		
	Size		Reading		
Small Ring	9.38	in	1.49	V	

Large Ring	14.00	in	3.25	V
Before Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc
After Survey Verification				
	<u>Target</u>		<u>Measured</u>	
		g/cc		g/cc
		g/cc		g/cc
		g/cc		g/cc

Gamma Ray Calibration Report				
Serial Number:	2213TN			
Tool Model:	Aoilex			
Performed:	Mon Feb 20 13:34:10 2017			
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:	5138			
Tool Model:	G			
Performed:	Fri Feb 20 03:21:36 2015			
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	35.44		CHD-None	0.75	1.50	5.00
			NEU-G (5138) Gearhart Epithermal	5.65	3.50	85.00
GR	29.60		GR-Aoilex (2213TN) Admyr GR	2.84	4.00	50.00
			CDL-Aoilex (2113TN) Admyr Oilex	6.80	4.00	250.00
LSD	24.57					
DCAL	24.30					
SSD	24.05					

SP	10.60		DIL-Probe (080522) Probe Dual Induction	21.47	4.00	345.00
CILD	10.60					
CILM	6.89					
RLL3	1.70					
Dataset: roedwardstruste26-1oh.db: field/well/run1/pass3.12 Total length: 37.51 ft Total weight: 735.00 lb O.D.: 4.00 in						