



COMPENSATED DENSITY NEUTRON LOG

Company Castle Resources, Inc.

Well Carter #1

Field Wildcat

County Decatur State Kansas

Location: API #: 15 039 21236

1950' FSL & 1100' FEL

SEC 28 TWP 5S RGE 27W

Permanent Datum Ground Level Elevation 2698'
Log Measured From KB 5' AGL
Drilling Measured From KB

Other Services
DIL
ML
Elevation
K.B. 2703'
D.F. 2702'
G.L. 2698'

Date 10-19-16

Run Number One

Depth Driller 4450'

Depth Logger 4449'

Bottom Logged Interval 4426'

Top Log Interval 3300'

Casing Driller 8 5/8" @ 282'

Casing Logger 282'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 9.3/54

pH / Fluid Loss 9/7.2

Source of Sample Pit

Rm @ Meas. Temp 1.6@76degf

Rmf @ Meas. Temp 1.2@76degf

Rmc @ Meas. Temp 1.92@76degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.06@114degf

Time Circulation Stopped 4:30 p.m.

Time Logger on Bottom 5:30 p.m.

Maximum Recorded Temperature 114degf

Equipment Number T127

Location Hays, KS

Recorded By Gus Pfannenstiel

Witnessed By Mr. Jerry Green

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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



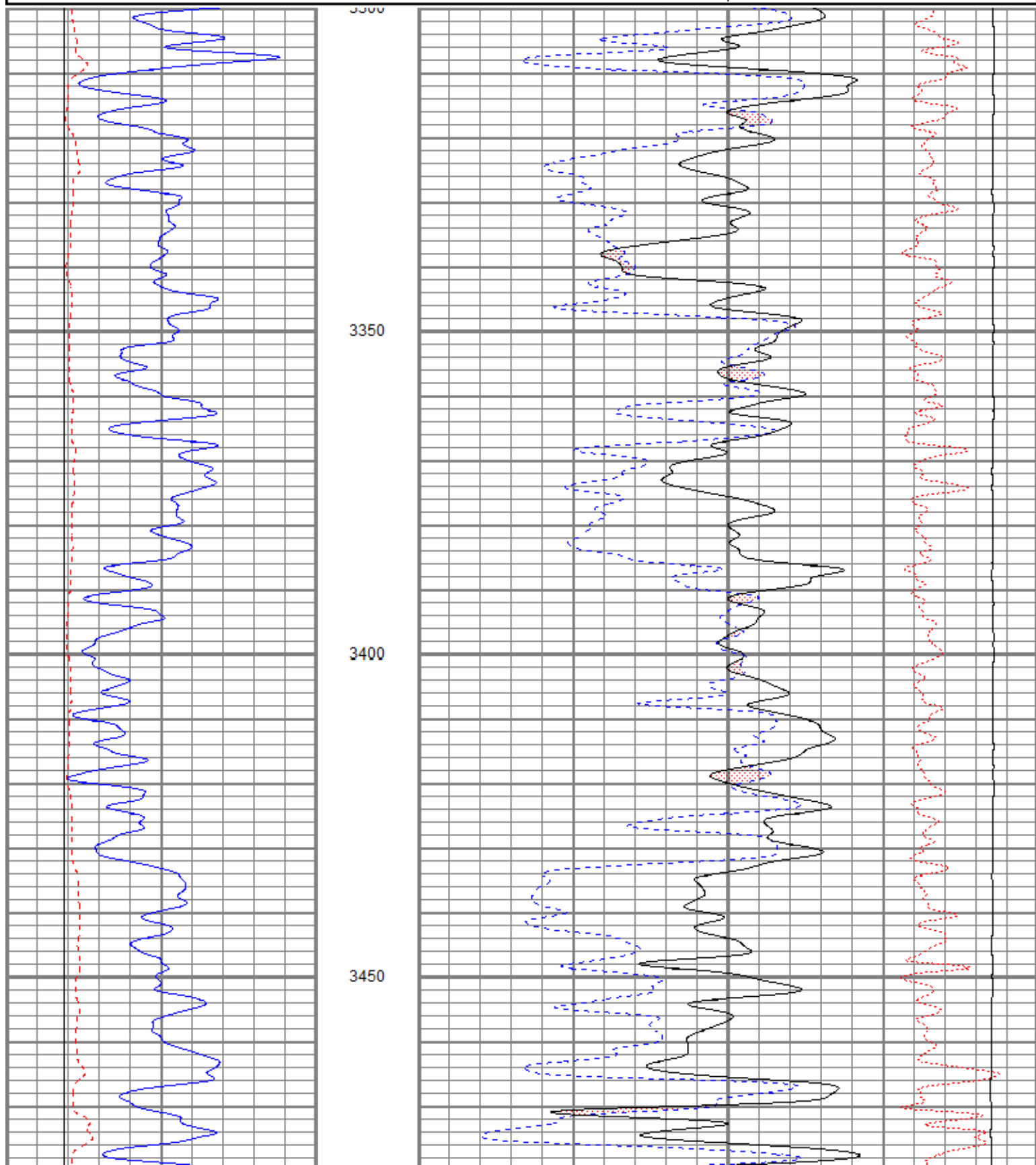
Main Pass

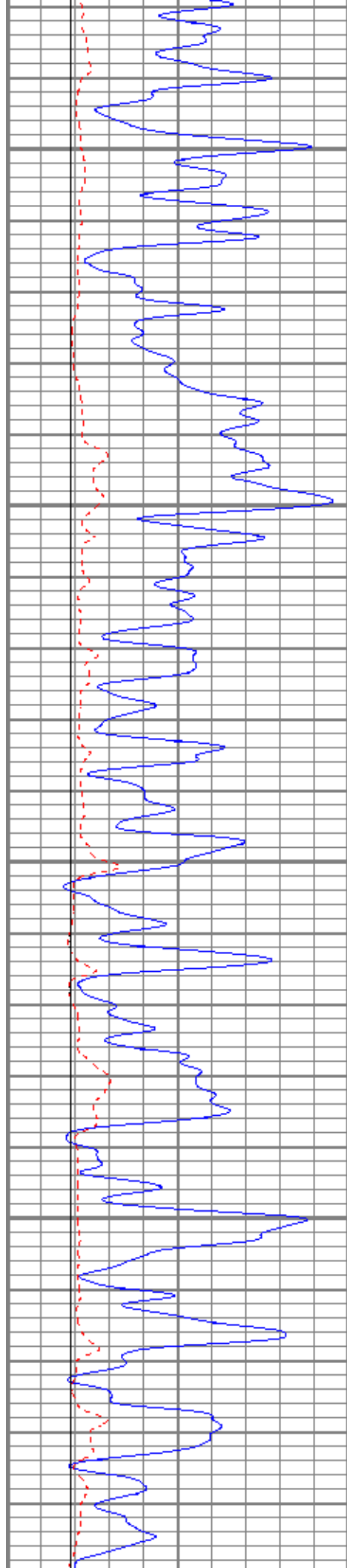
Database File crcarter#1oh.db
 Dataset Pathname pass6.1
 Presentation Format kcdnl
 Dataset Creation Fri Oct 21 08:20:52 2016
 Charted by Depth in Feet scaled 1:240

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

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

-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0



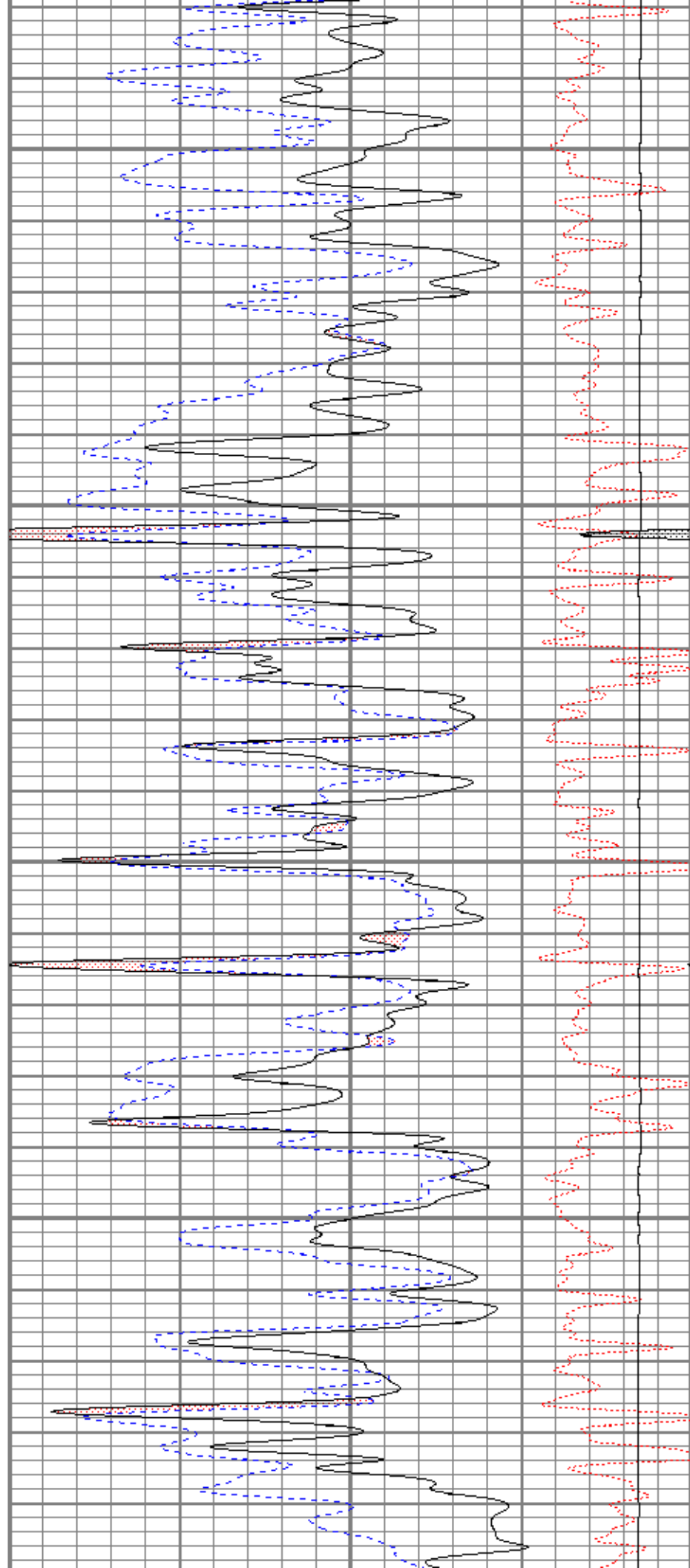


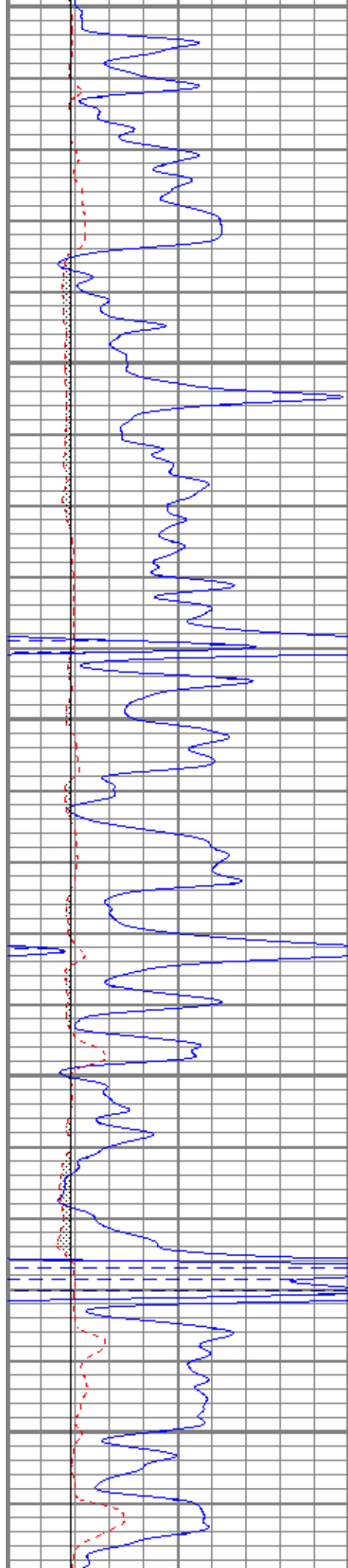
3500

3550

3600

3650





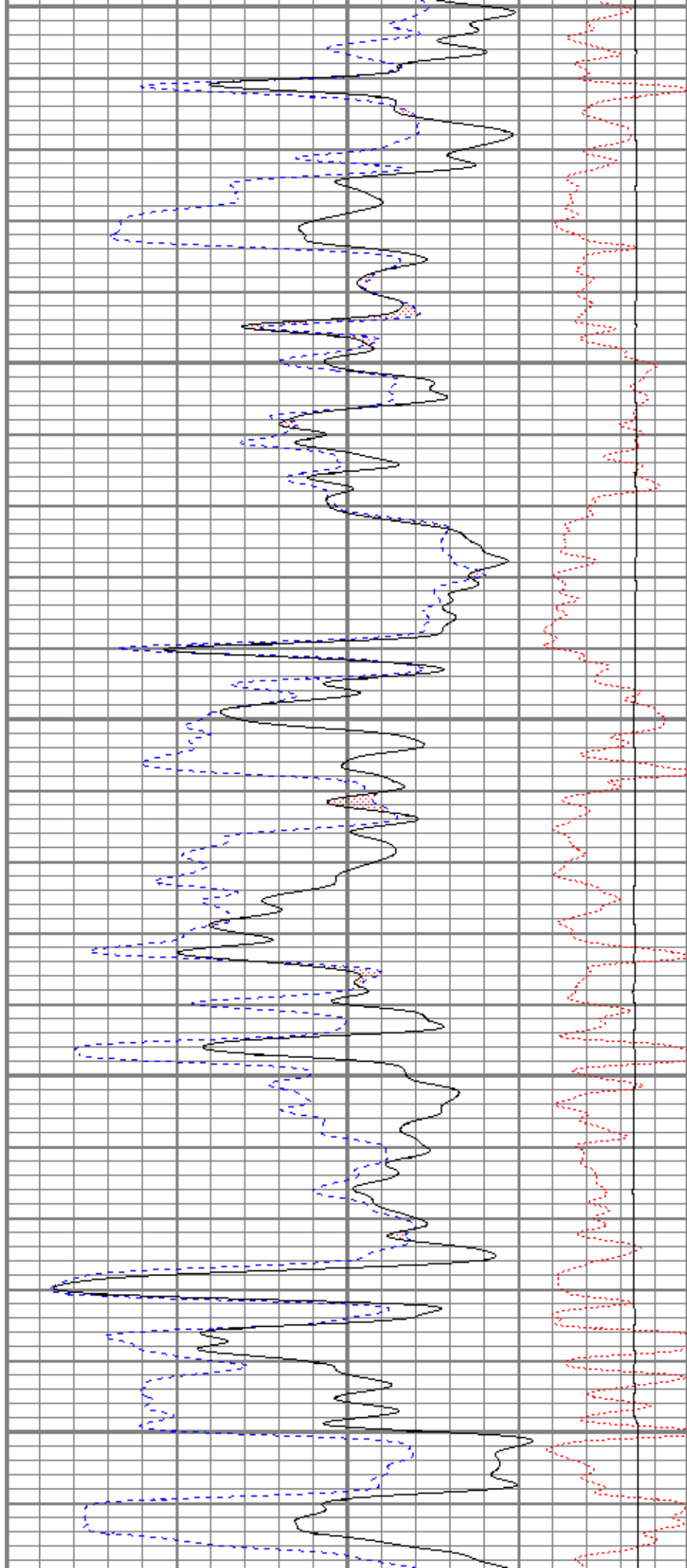
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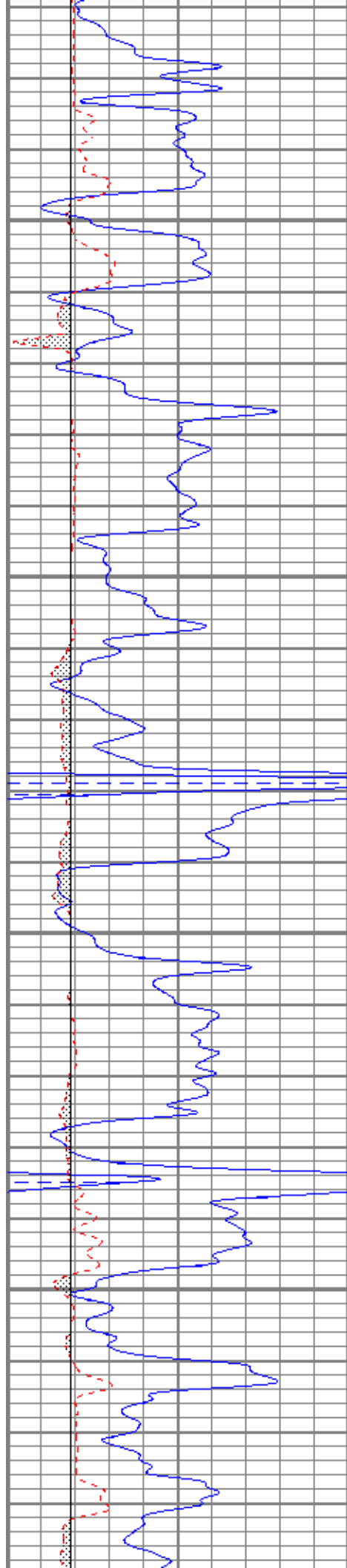
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3800

3850

3900



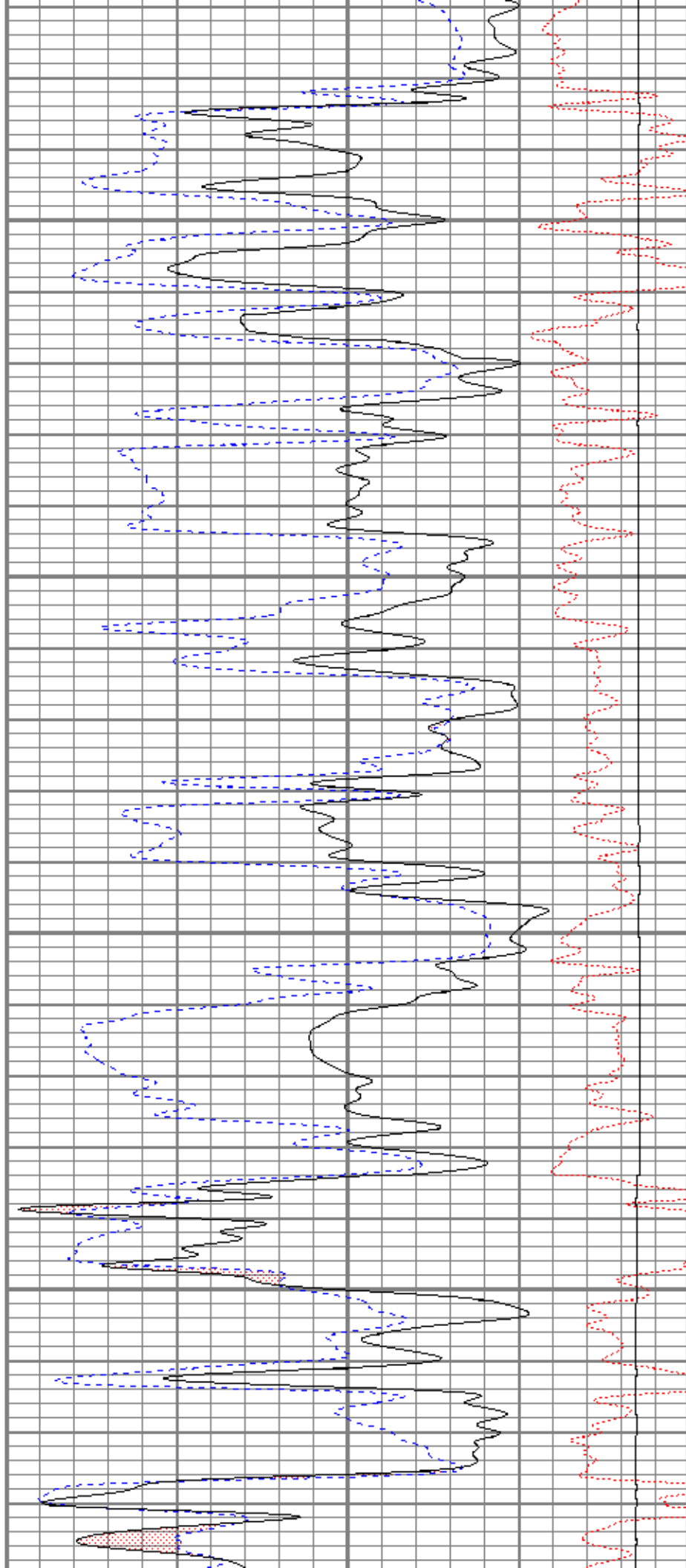


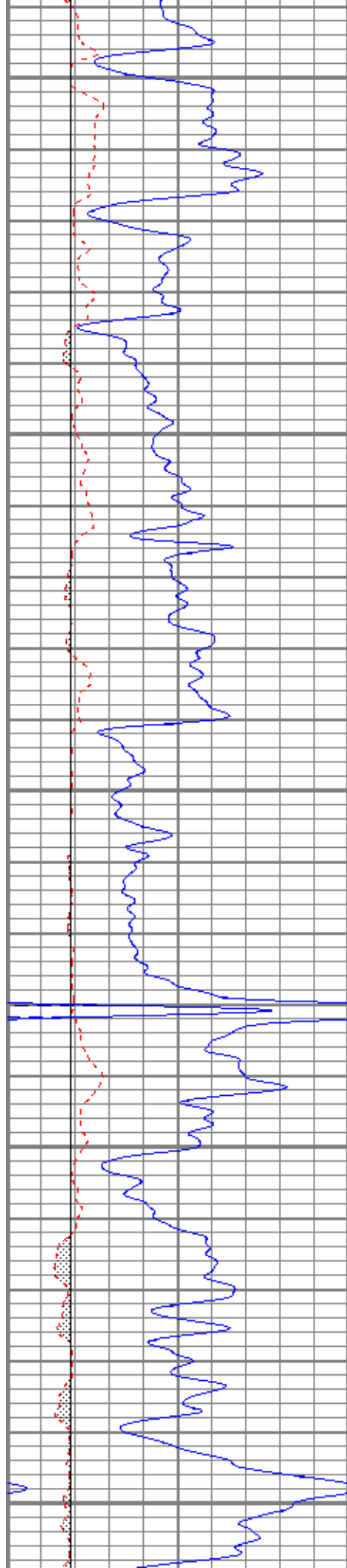
3950

4000

4050

4100





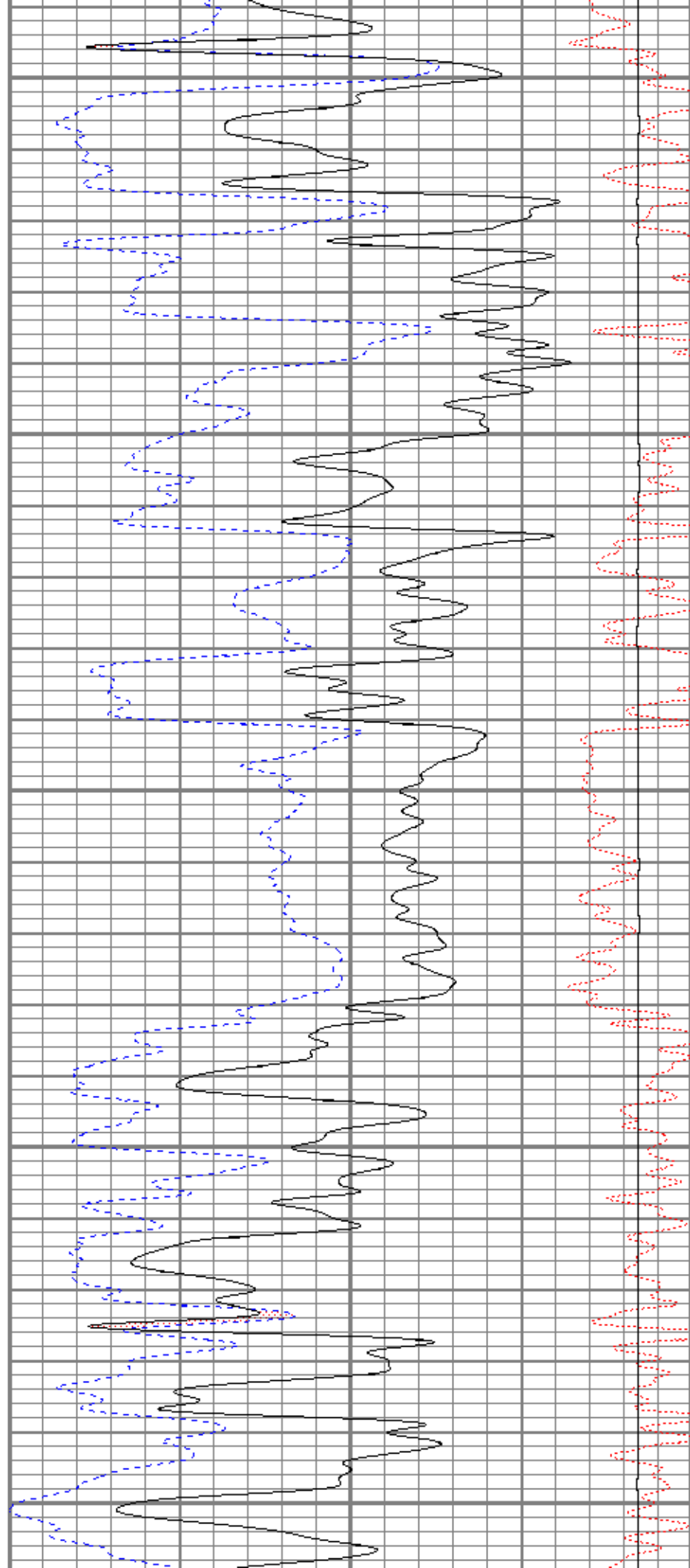
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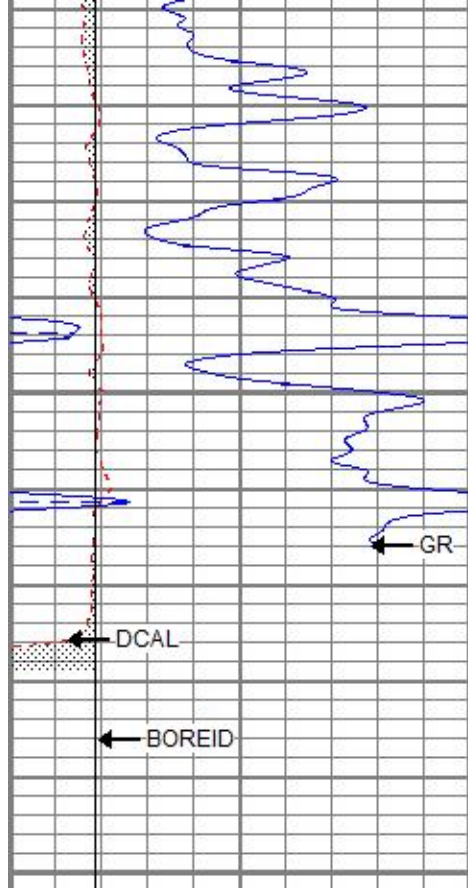
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4250

4300

4350

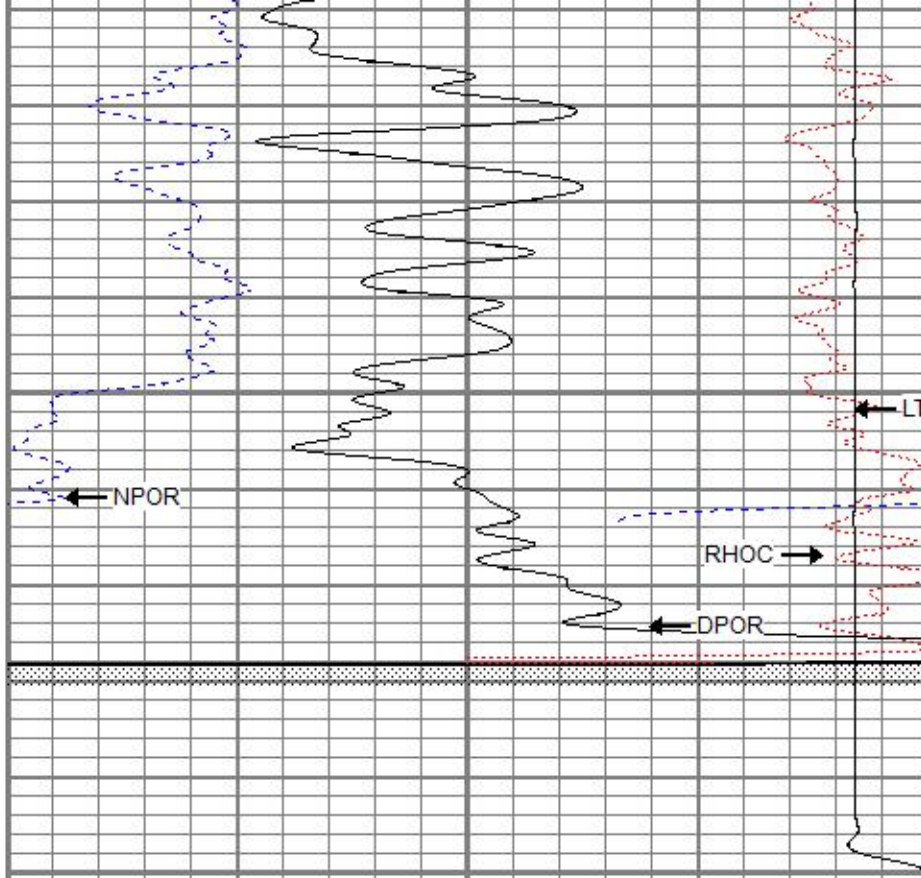




0	GR (GAPI)	150
6	DCAL (in)	16
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4400

4450



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



Repeat Pass

Database File: crcarter#1oh.db
 Dataset Pathname: pass1.1
 Presentation Format: kcdnl
 Dataset Creation: Tue Oct 18 10:59:50 2016
 Charted by: Depth in Feet scaled 1:240

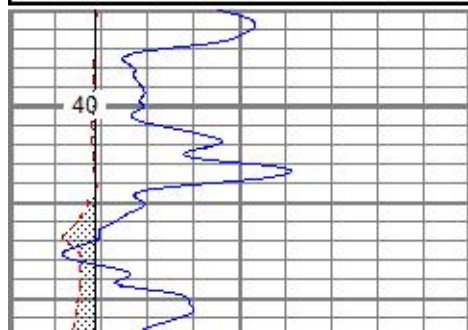
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16

TBHV (ft3)

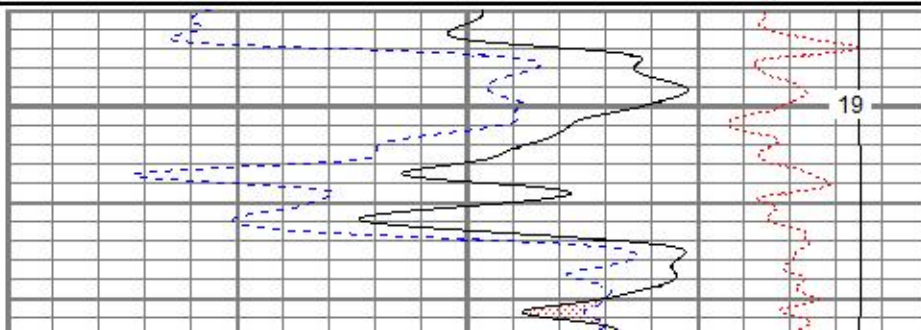
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30

-0.25	RHOC (g/cc)	0.25
8000	LTEN (lb)	0

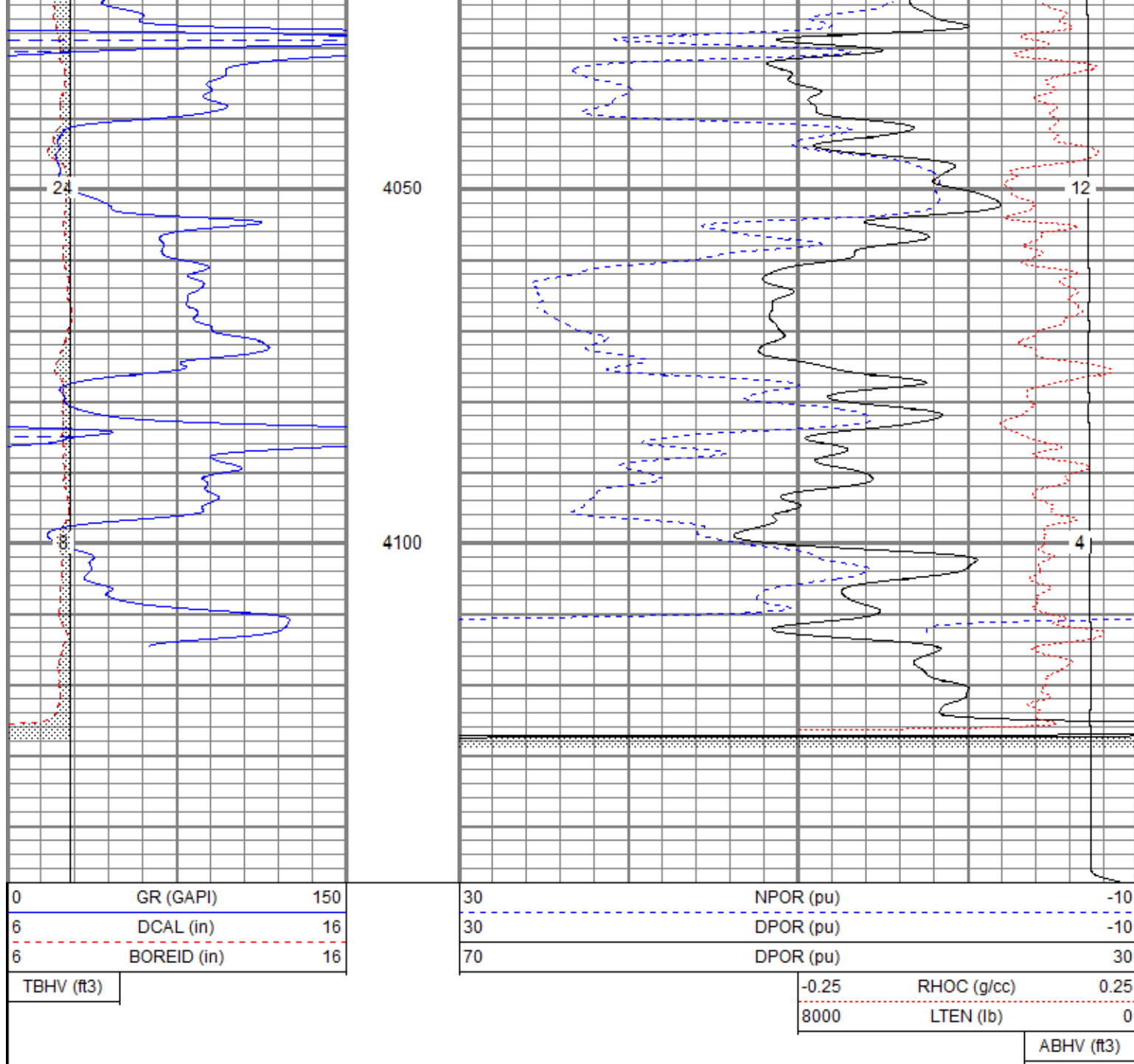
ABHV (ft3)



4000



19



Calibration Report								
Database File	crcarter#1oh.db							
Dataset Pathname	pass1.1							
Dataset Creation	Tue Oct 18 10:59:50 2016							
Dual Induction Calibration Report								
Serial-Model:			1989-ADM					
Surface Cal Performed:			Mon Jul 11 21:35:42 2016					
Downhole Cal Performed:			Mon Jul 11 21:36:11 2016					
After Survey Verification Performed:			Mon Jul 11 21:36:11 2016					
Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.560	-1.118
Medium	0.003	0.745	V	0.000	400.000	mmho/m	538.828	-1.427

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.656	V	0.000	350.000	mmho/m	535.220	-1.003
Medium	0.003	0.745	V	0.000	550.000	mmho/m	741.357	-2.036

Downhole Calibration								
Readings			References			Results		
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-0.036	349.993	mmho/m	-0.114	350.108	mmho/m	1.001	-0.078
Medium	0.039	400.181	mmho/m	0.053	399.799	mmho/m	0.999	0.013
Shallow	2.503	0.015	V	500.000	2.000	Ohm-m	200.177	-15.046

After Survey Verification								
Readings			Targets			Results		
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.036	349.993	mmho/m	1.001	-0.078
Medium	0.000	0.000	mmho/m	0.039	400.181	mmho/m	0.999	0.013
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report								
Serial-Model:			2501DHT-DHT					
Source / Verifier:			csv-j12 /					
Master Calibration Performed:			Thu Jan 21 09:35:41 2016					
Before Survey Verification Performed:								
After Survey Verification Performed:								

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	711.36	284.22	cps
Aluminum	2.660	g/cc	133.07	180.42	cps
Spine Angle = 74.83			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	8.15	in	5979.71		
Large Ring	14.00	in	9974.72		

Before Survey Verification								
Target			Measured					

After Survey Verification								
Target			Measured					

Gamma Ray Calibration Report								
Serial Number:			2000					
Tool Model:			P2000					
Performed:			Sun Dec 13 16:43:47 2015					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			

Calibrator Reading:	1.0	cps
Sensitivity:	0.2200	GAPI/cps

Neutron Calibration Report

Serial Number:	5108	
Tool Model:	PROBE	
Performed:	Thu Jan 21 09:36:17 2016	
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	36.60		CHD-None	0.75	1.50	5.00	
			NEU-PROBE (5108) Probe	4.92	3.63	85.00	
GR	30.81		GR-P2000 (2000)	3.67	3.25	40.00	
			CDL-DHT (2501DHT) Digital High Temp CDL Tool	9.69	4.00	201.00	
LSD	22.02						
DCAL	21.73						
SSD	21.48						
HEADVOLT	19.71						
SP	10.60						
CILD	10.60			DIL-ADM (1989) Dual Induction	19.71	4.00	300.00
CILM	6.89						
RLL3	1.70						
Dataset: crcarter#1oh.db: field/well/run1/pass1.1 Total length: 38.73 ft Total weight: 631.00 lb O.D.: 4.00 in							