



LITHO DENSITY NEUTRON LOG

Company Taos Resources Operating Company LLC

Well LFJ #3

Field Maddix North

County Cowley State Kansas

Location: API # : 15 035 24665

SEC 34 TWP 32S RGE 5E

Permanent Datum Ground Level Elevation 1291'

Log Measured From KB 5' AGL

Drilling Measured From KB

Other Services
DIL
BHC
ML

Elevation
K.B. 1296'
D.F. 1294'
G.L. 1291'

Date 2-13-17

Run Number One

Depth Driller 3560'

Depth Logger 3556'

Bottom Logged Interval 3524'

Top Log Interval 350'

Casing Driller 8 5/8" @ 276'

Casing Logger 276'

Bit Size 7 7/8"

Type Fluid in Hole Chemical

Density / Viscosity 8.6/42

pH / Fluid Loss 10/11.2

Source of Sample Pit

Rm @ Meas. Temp 2.15@78degf

Rmf @ Meas. Temp 1.72@78degf

Rmc @ Meas. Temp 2.75@78degf

Source of Rmf / Rmc Calculated

Rm @ BHT 1.51@111degf

Time Circulation Stopped 2.00 a.m.

Time Logger on Bottom 4.15 a.m.

Maximum Recorded Temperature 111degf

Equipment Number T127

Location Hays, KS

Recorded By C. Patterson

Witnessed By Mr. Mike Pressnall

<<< Fold Here >>>

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

East of Winfield to 151st rd., 2 south, 1/2 east, north into

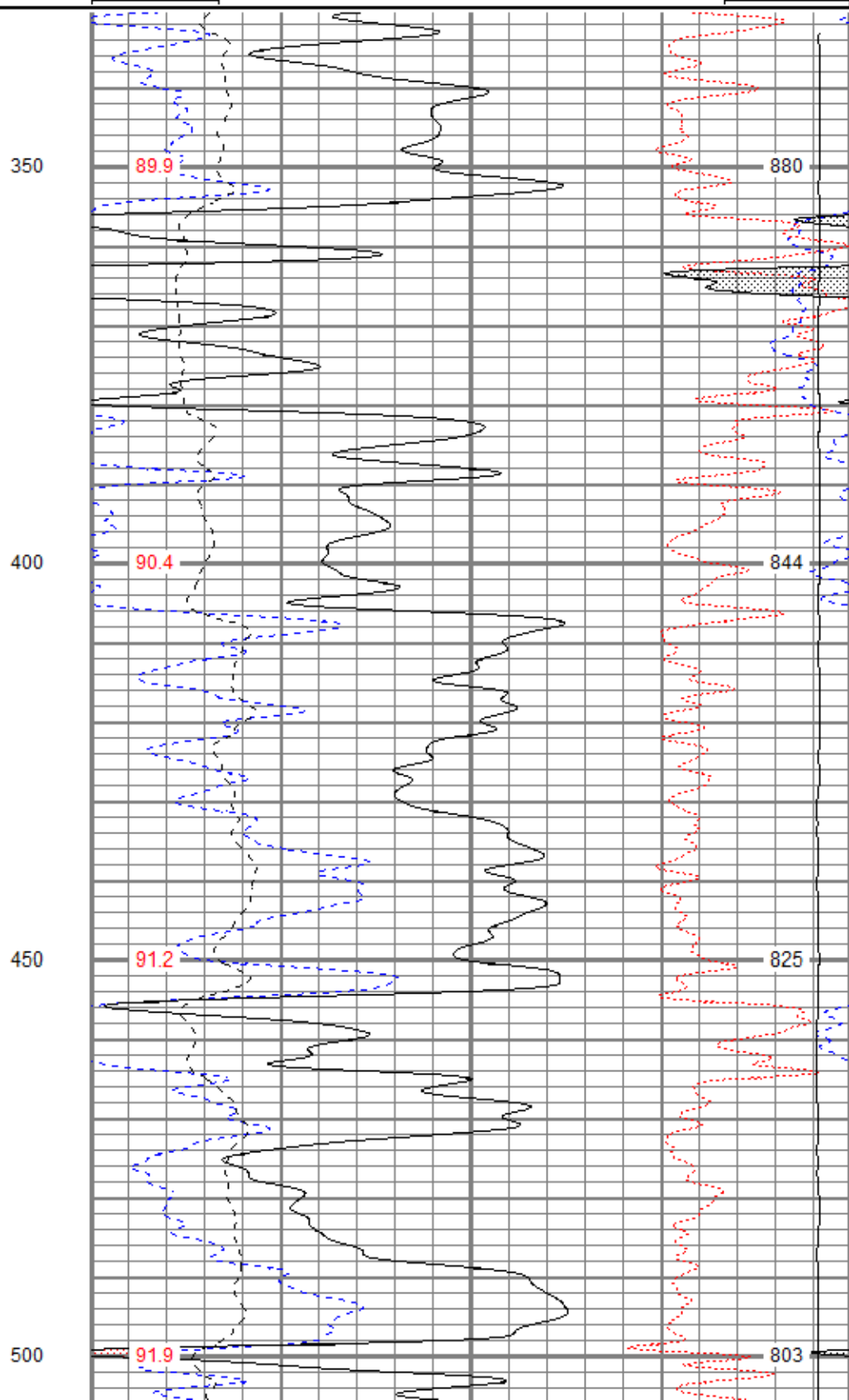
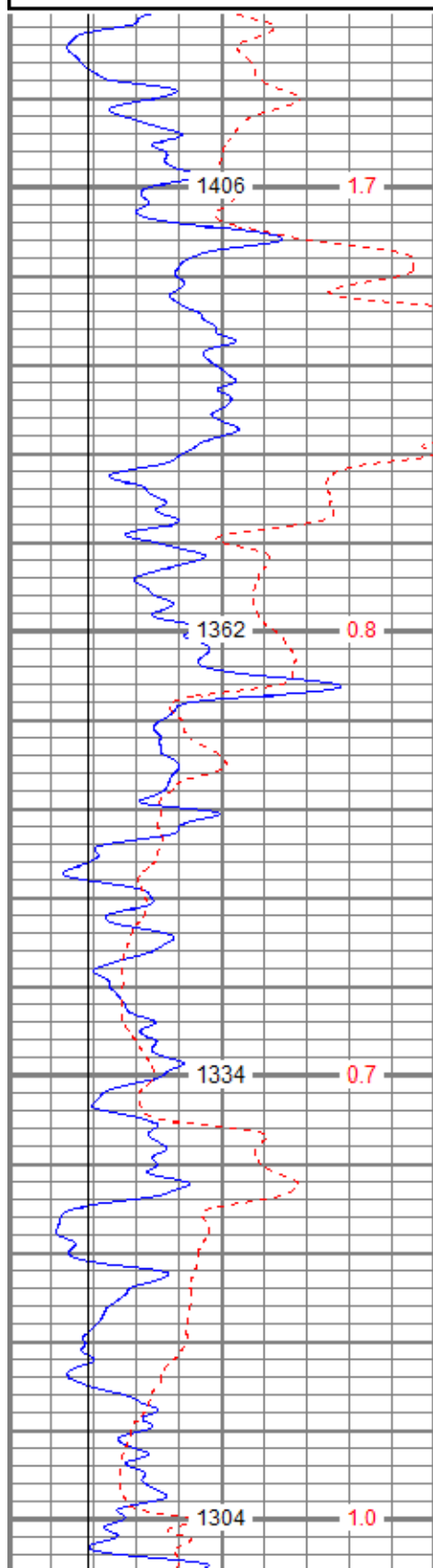


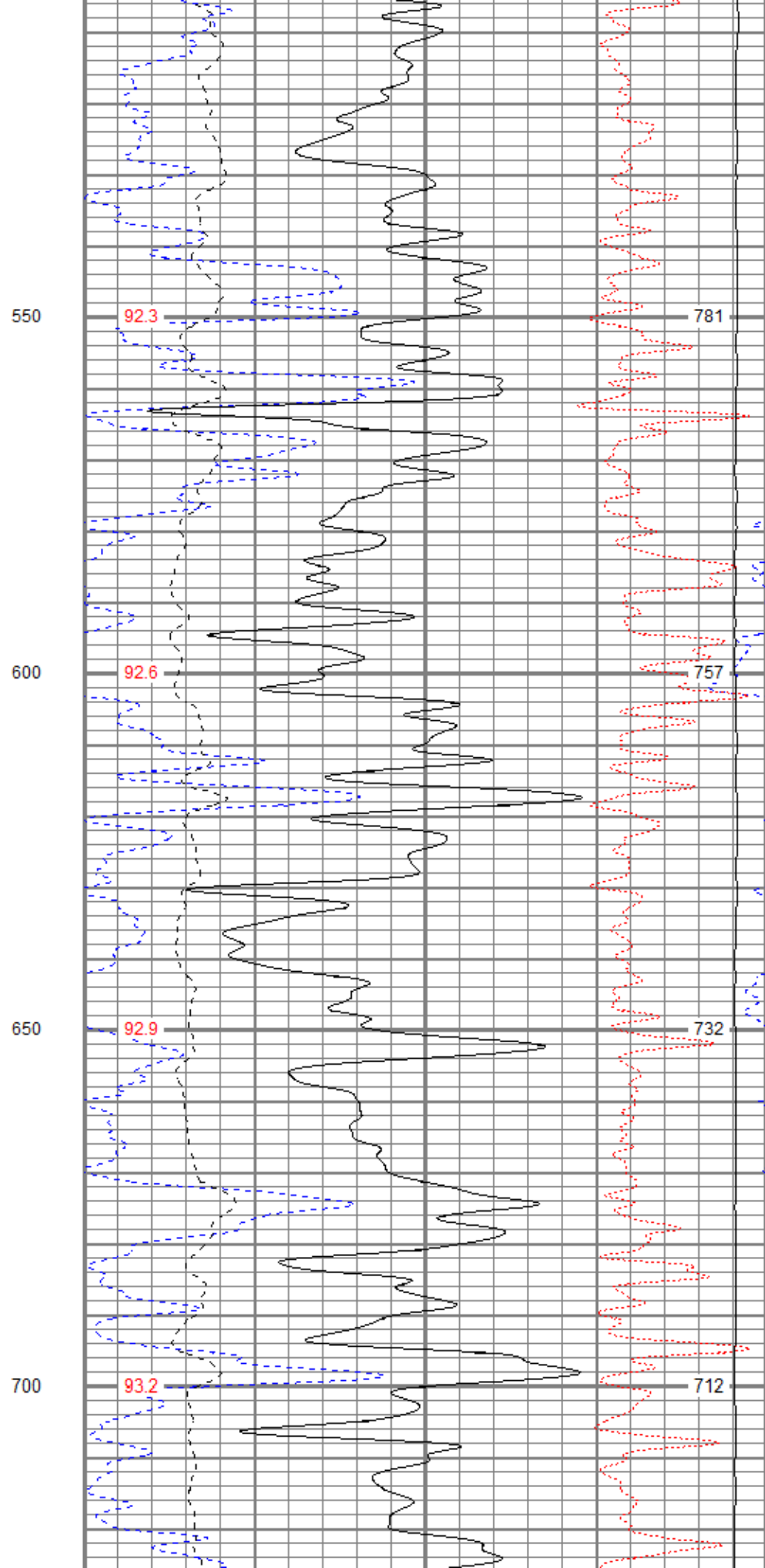
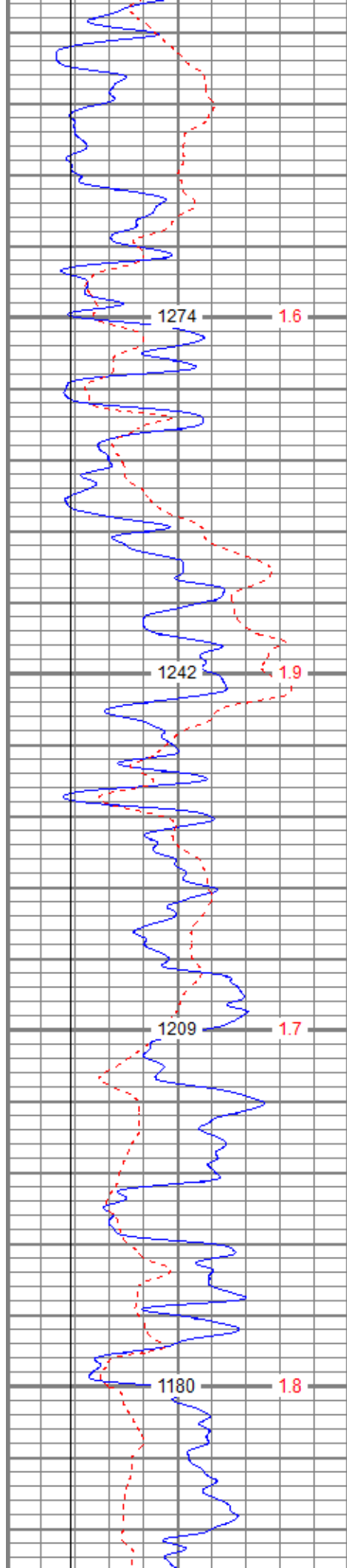
MAIN PASS

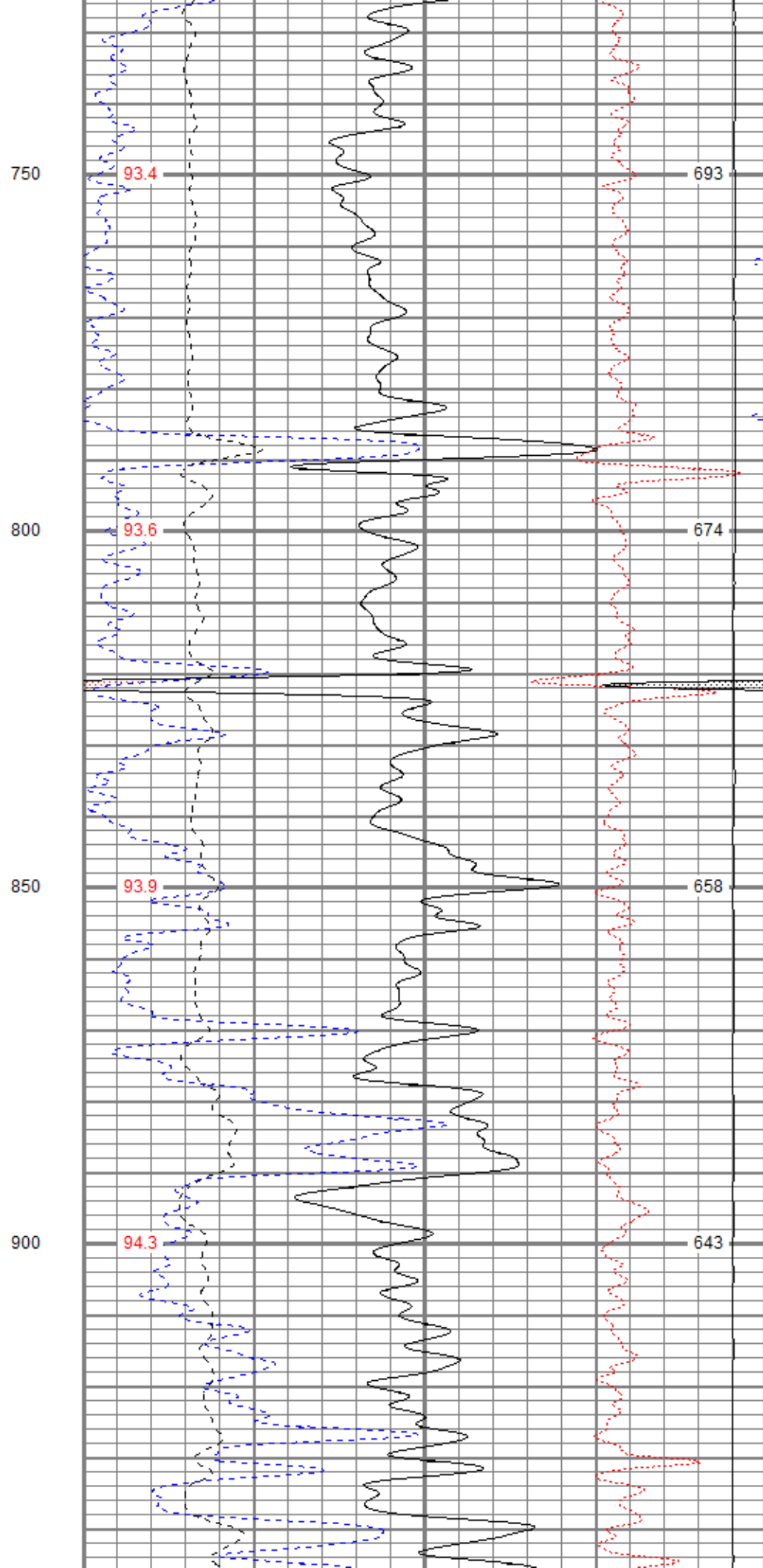
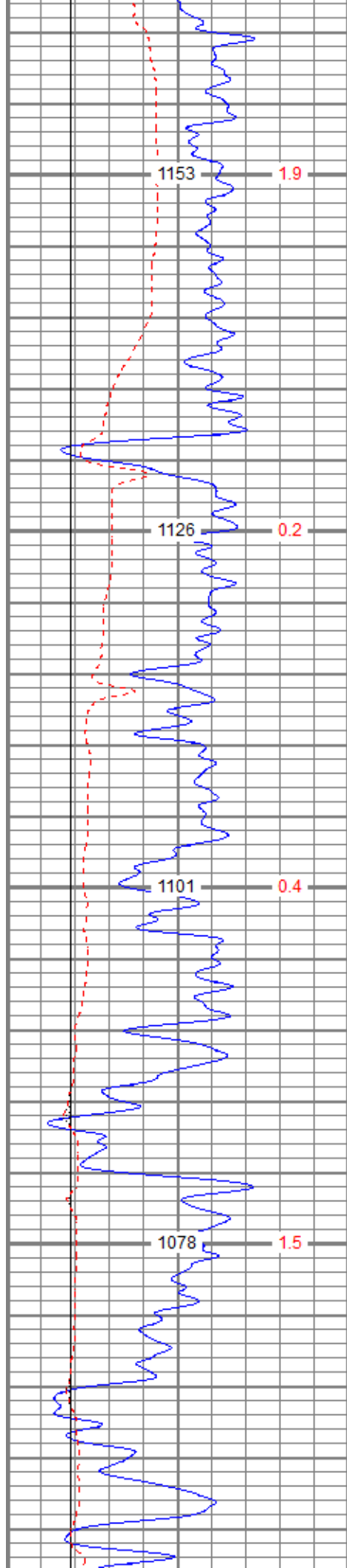
Database File troclj3oh.db
 Dataset Pathname pass2.1
 Presentation Format DIGITA~1
 Dataset Creation Mon Feb 13 06:02:42 2017
 Charted by Depth in Feet scaled 1:240

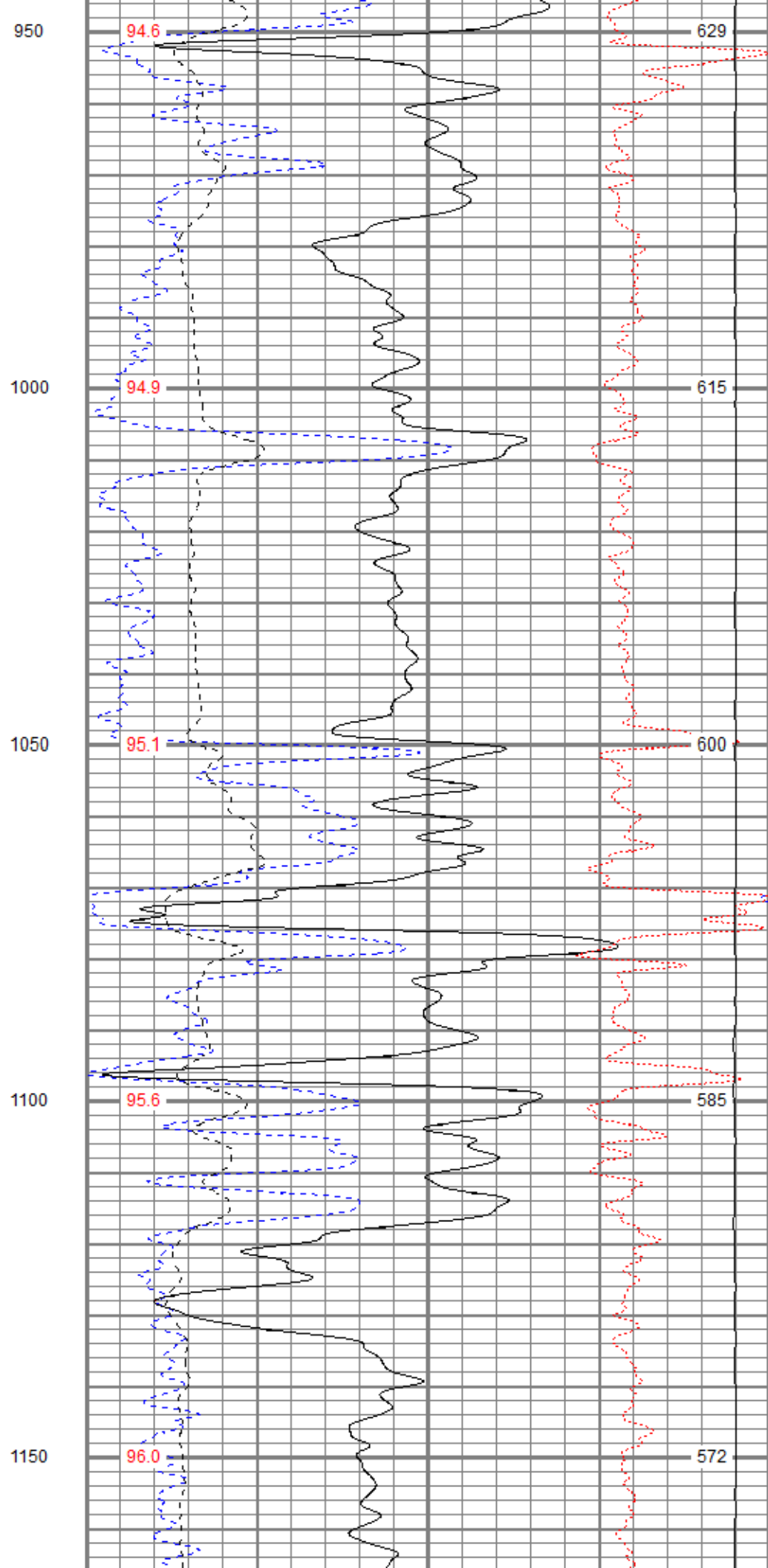
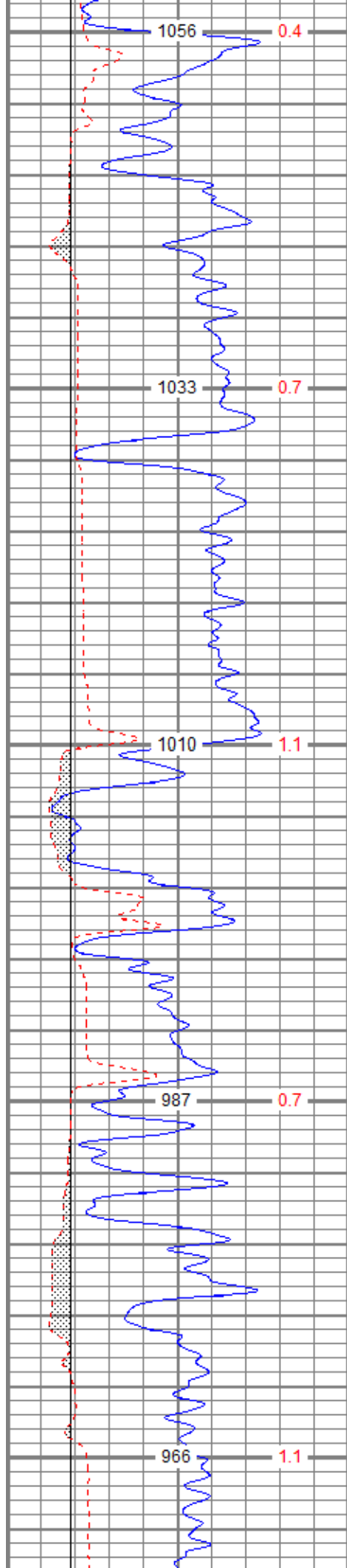
0	GR (GAPI)	150
6	BOREID (in)	16
6	MCAL (in)	16
	TBHV (ft3)	DEVI (deg)

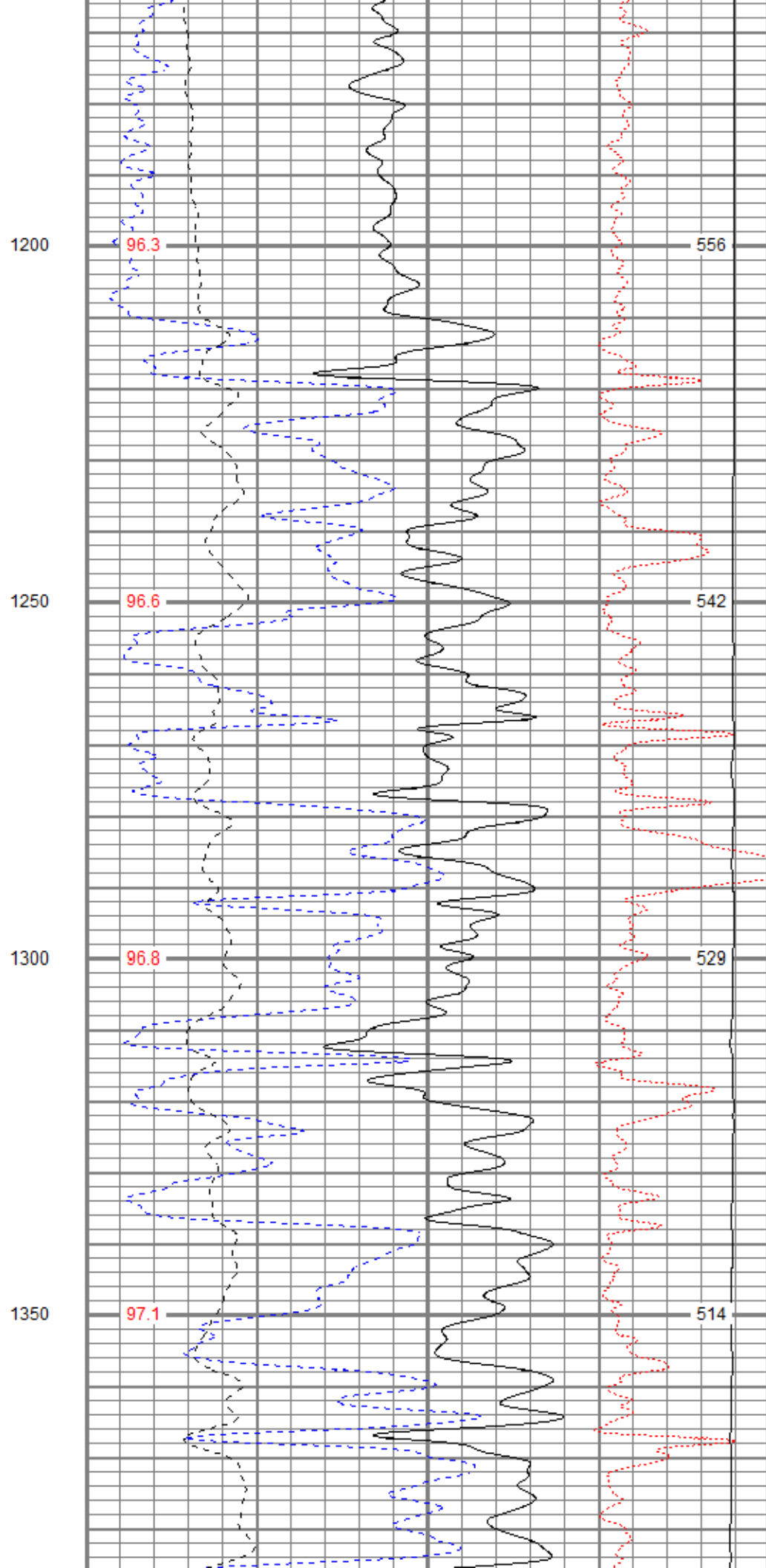
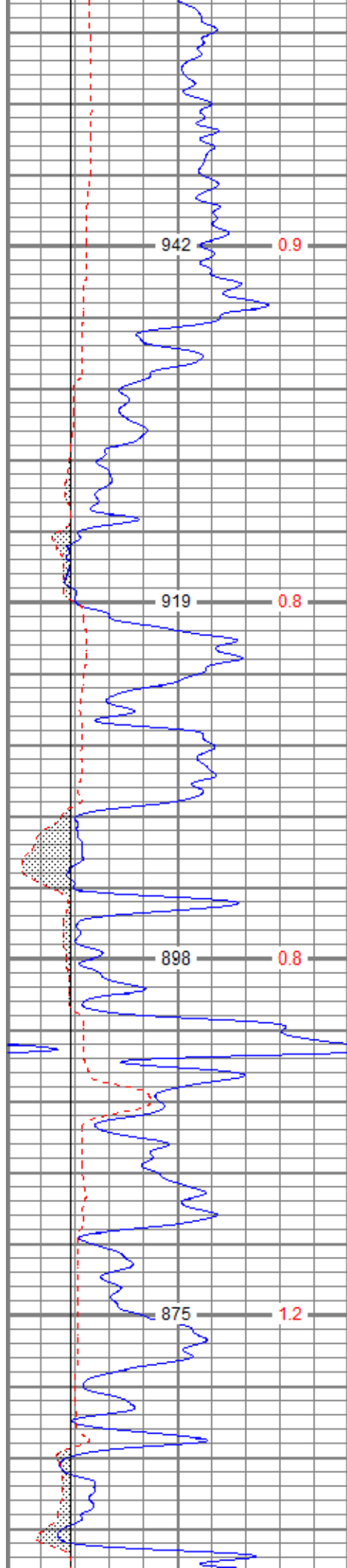
30	NPOR (pu)		-10		
30	DPOR (pu)		-10		
70	DPOR (pu)		30		
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP		8000	LTEN (lb)		0
(degF)			ABHV (ft3)		

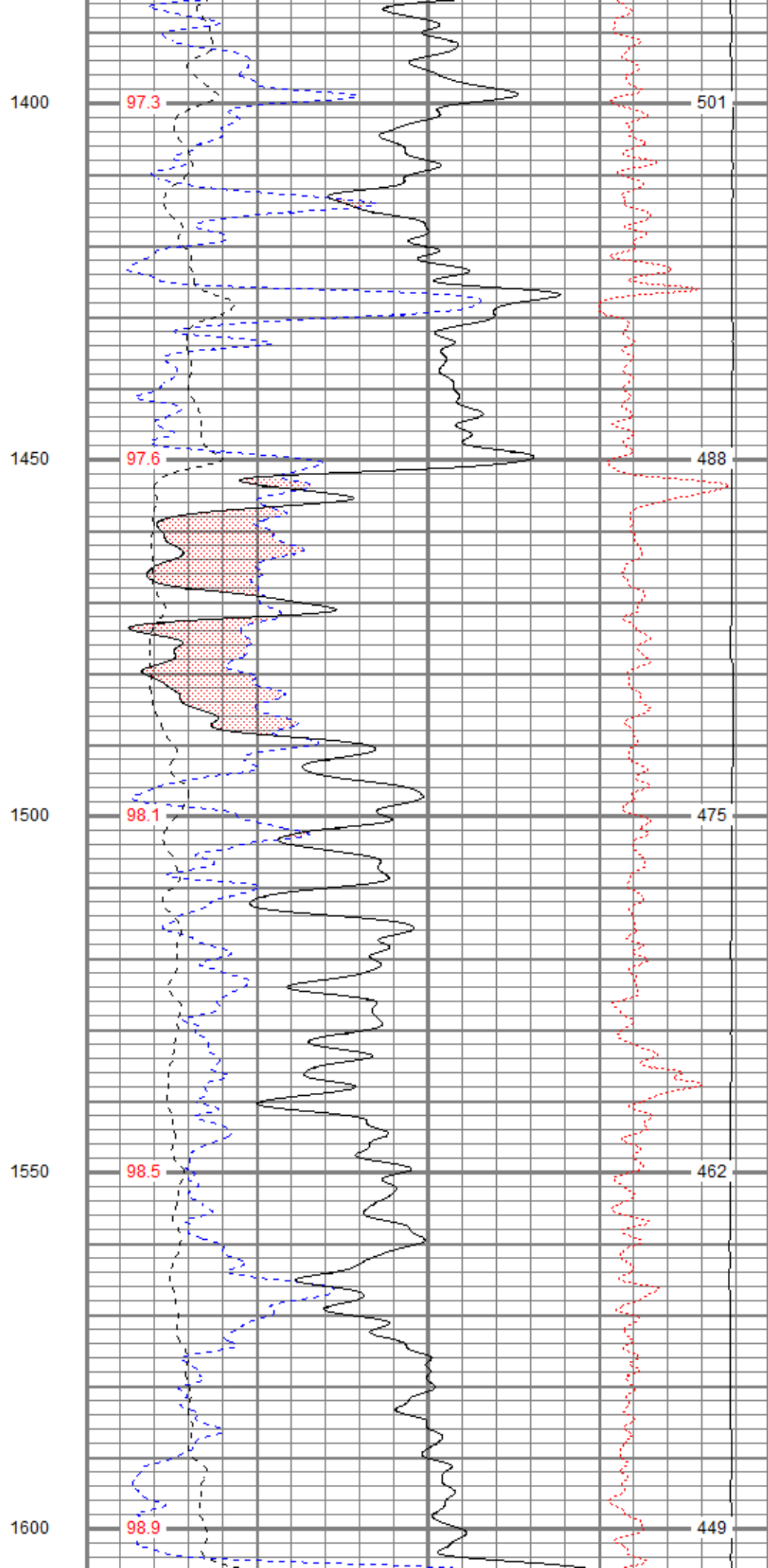
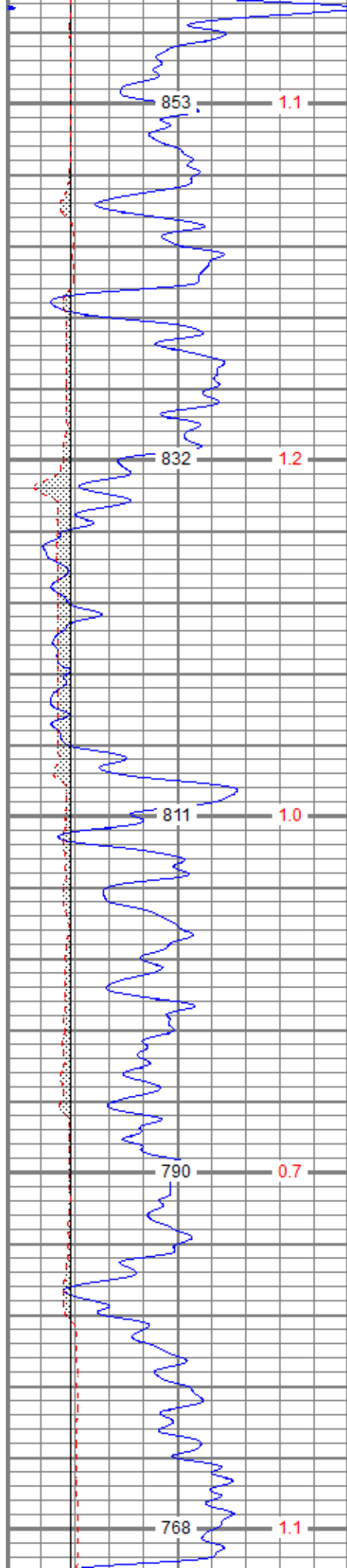


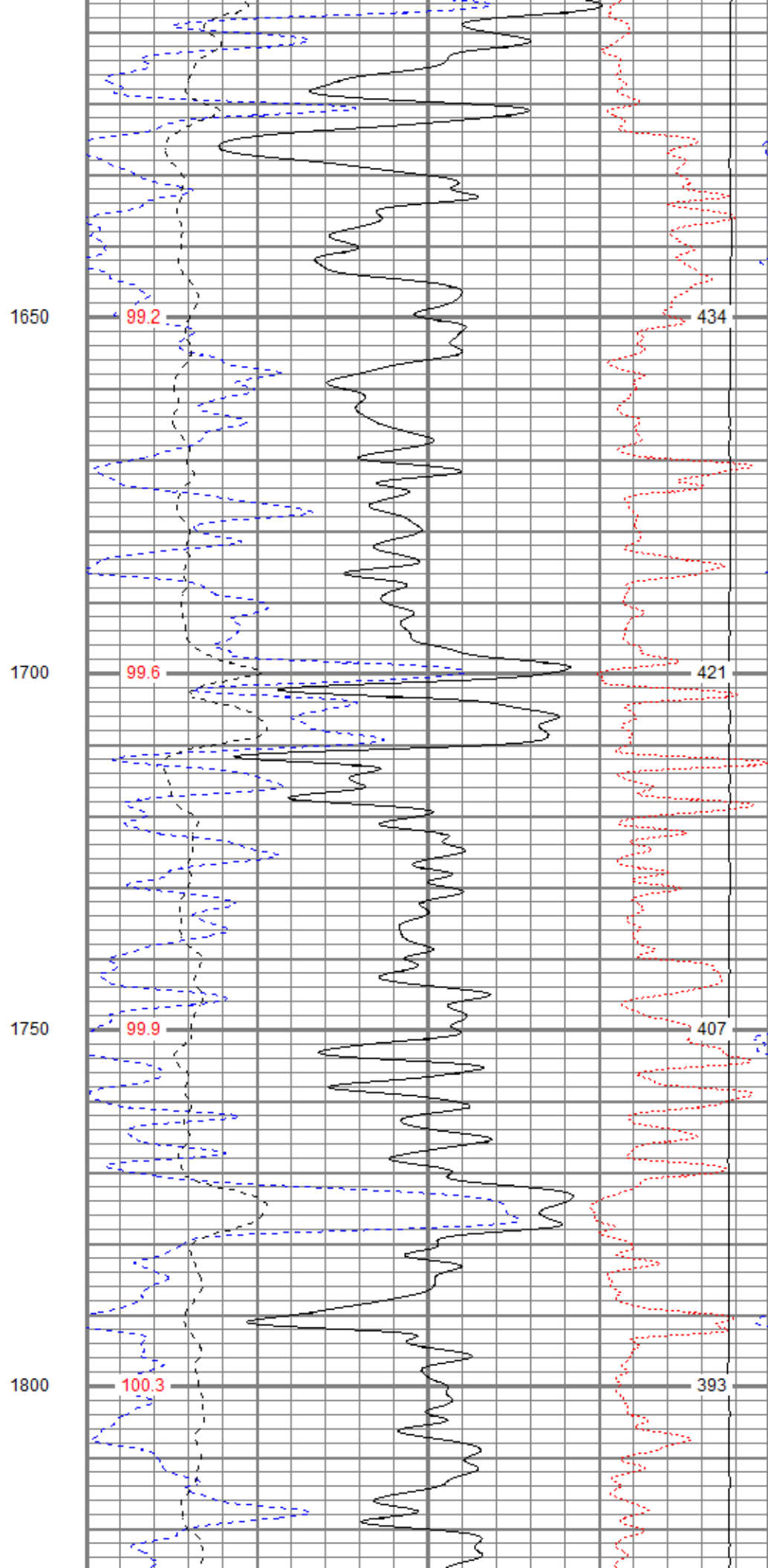
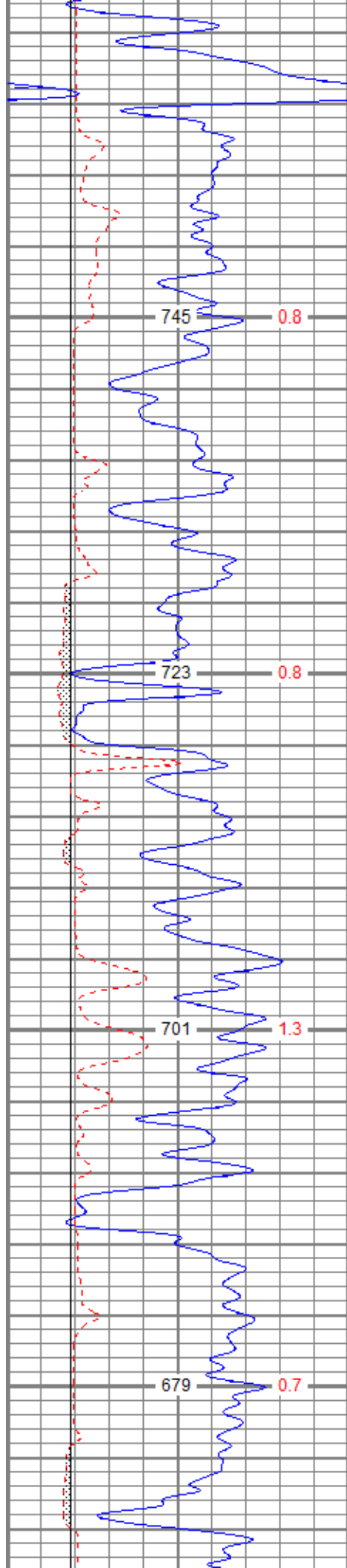


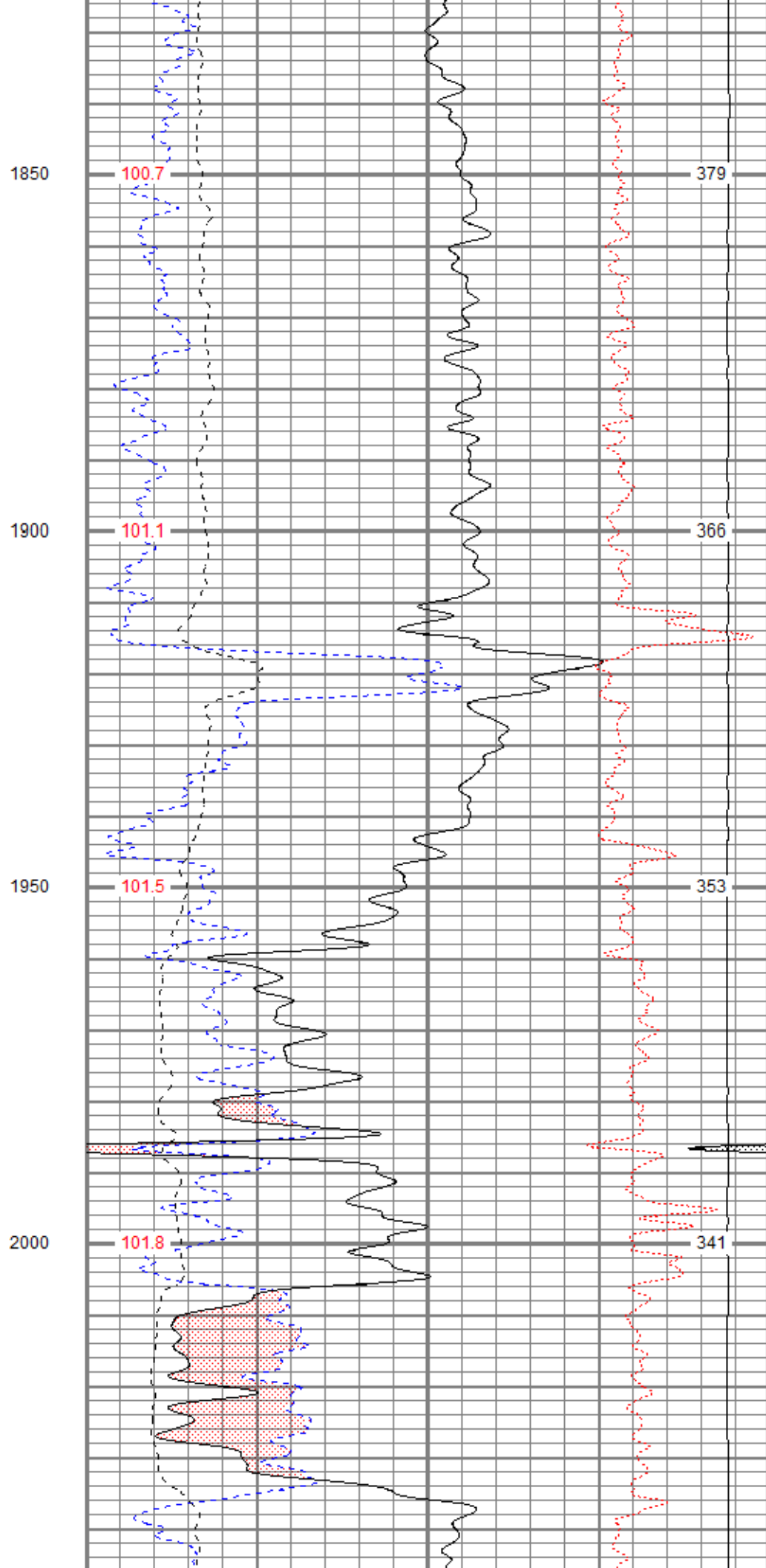
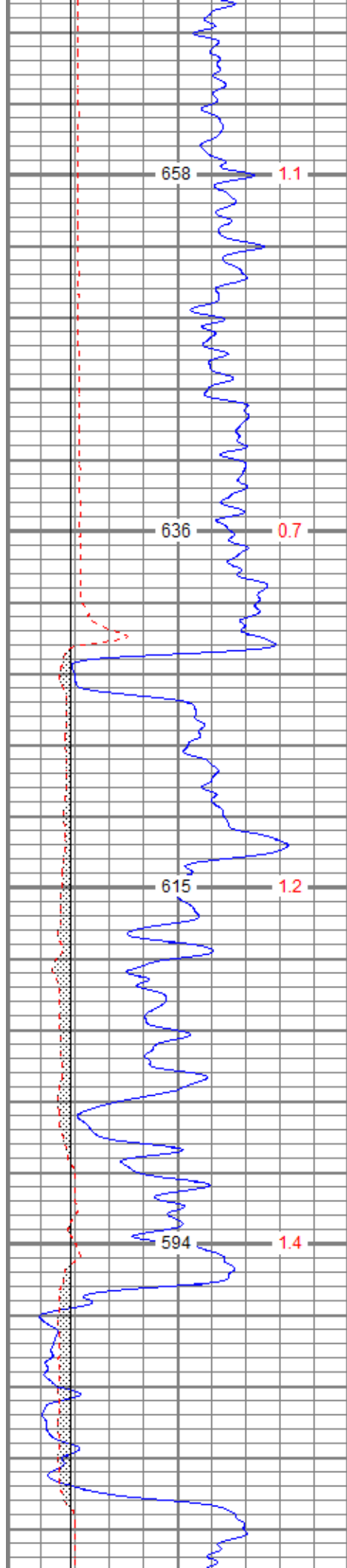


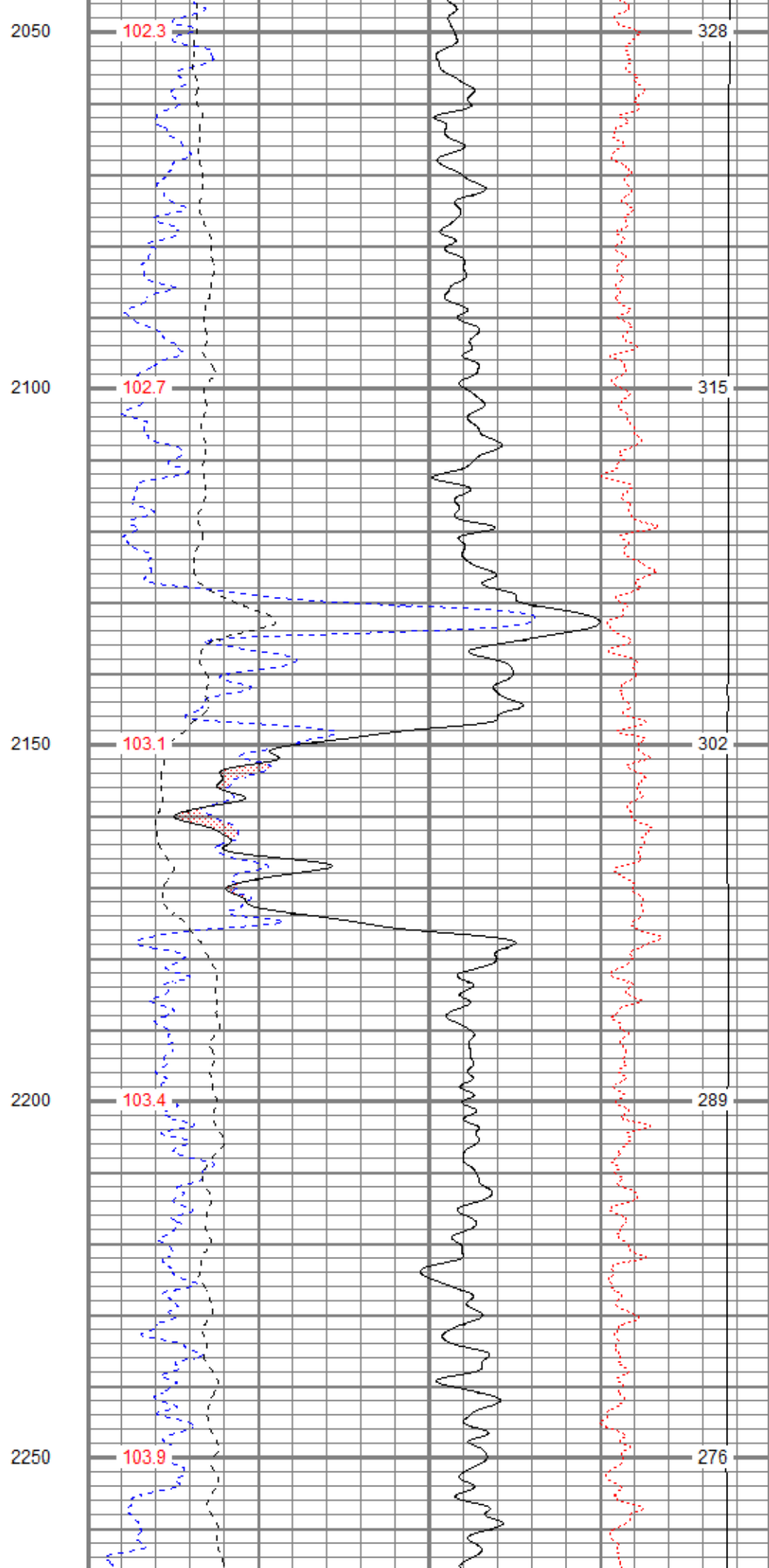
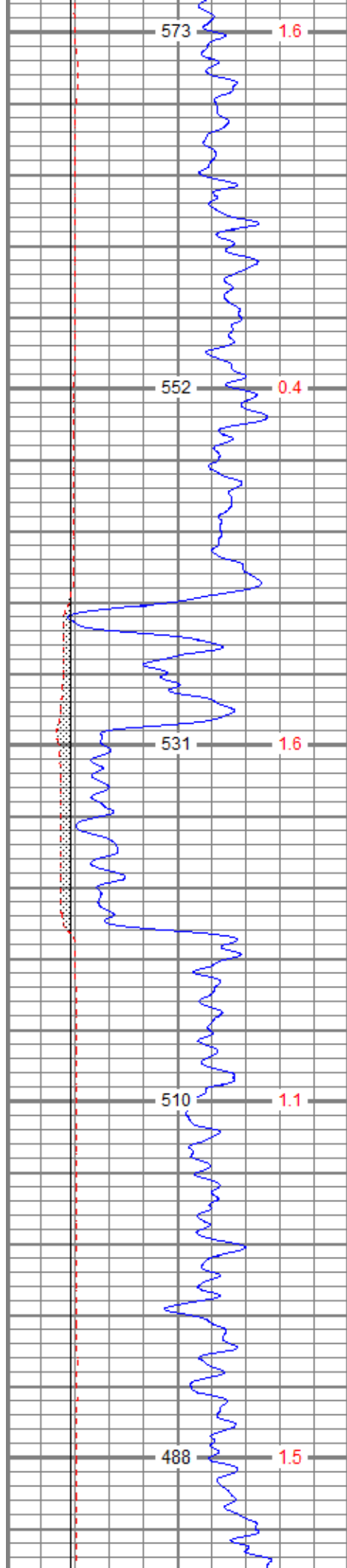


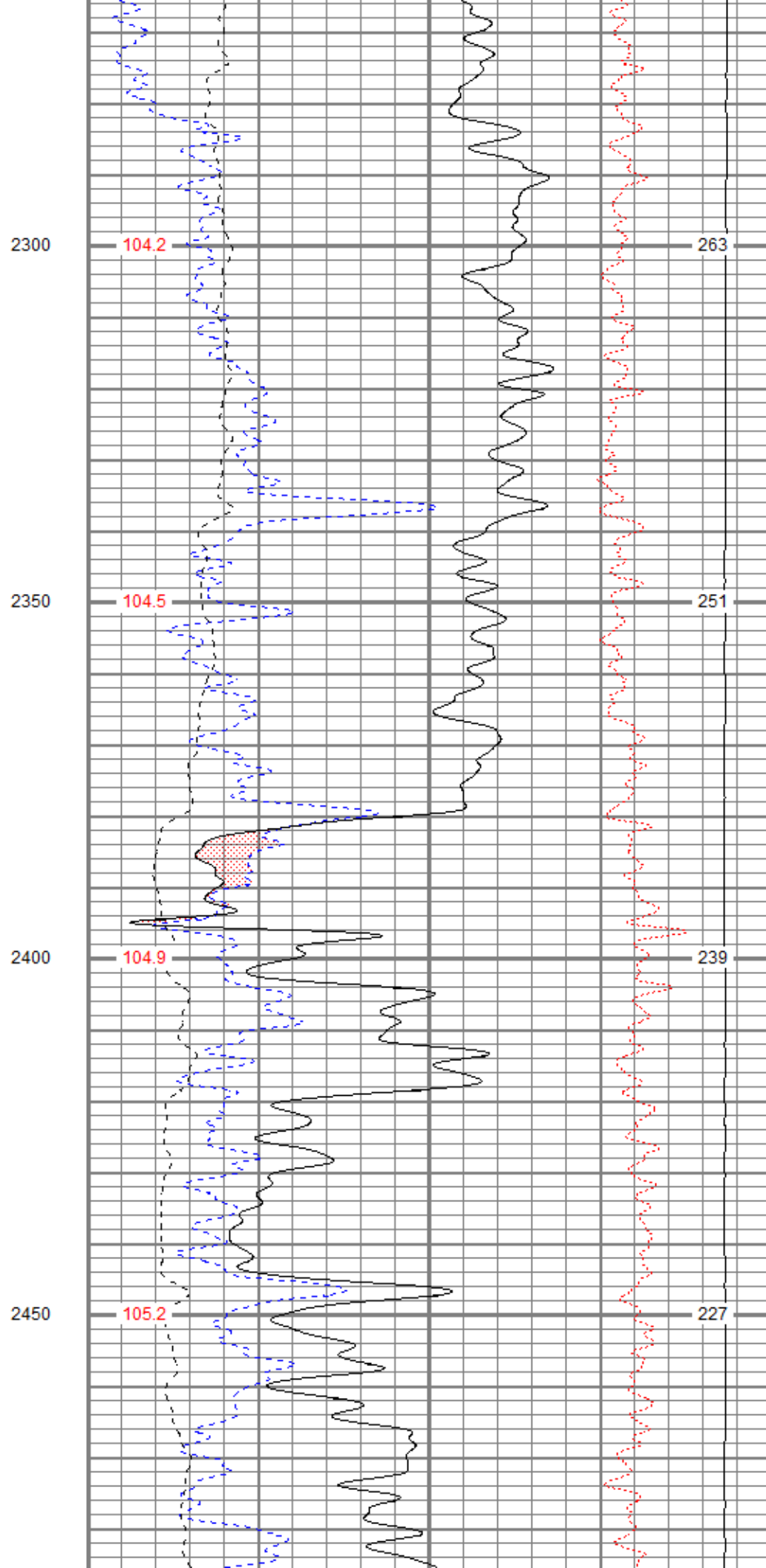
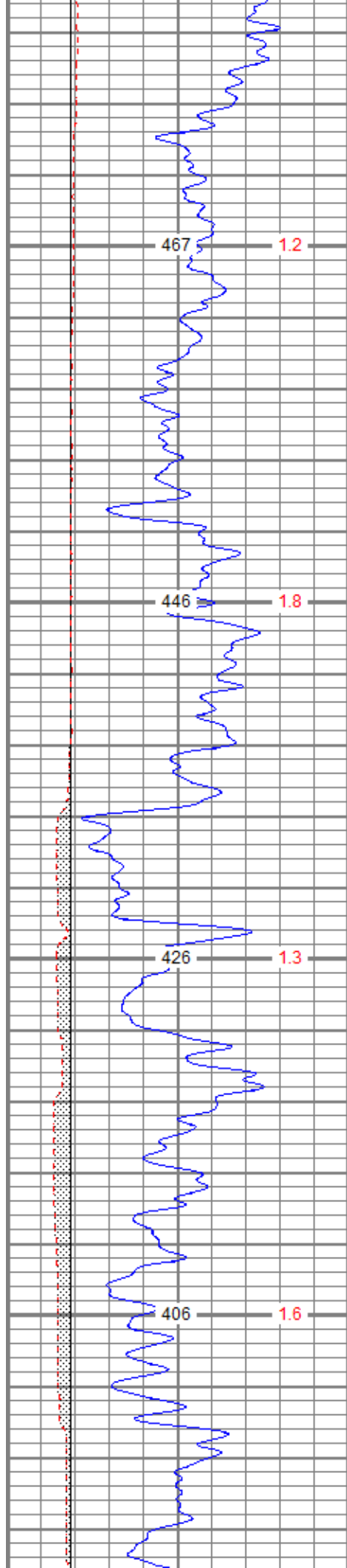


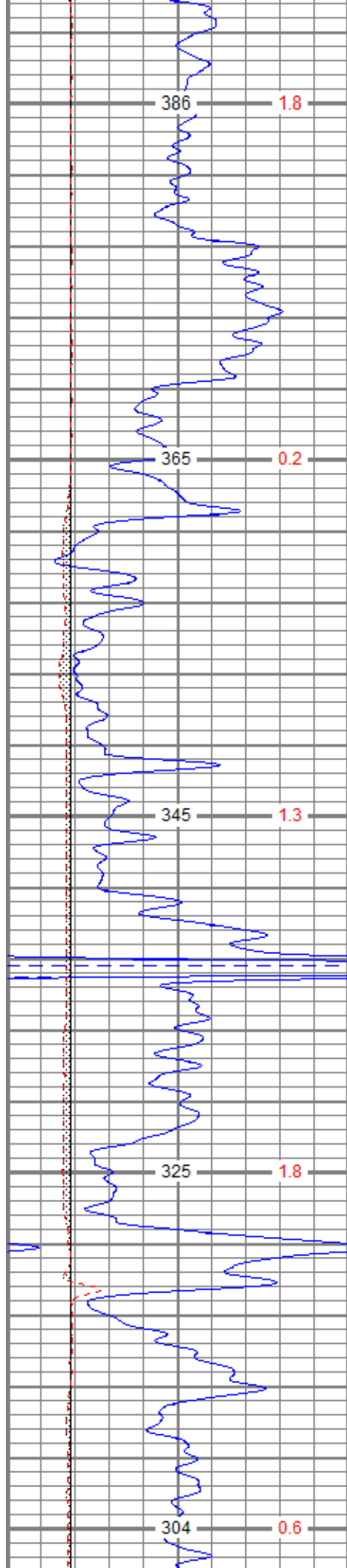












2500

105.4

215

2550

105.7

202

2600

106.1

190

2650

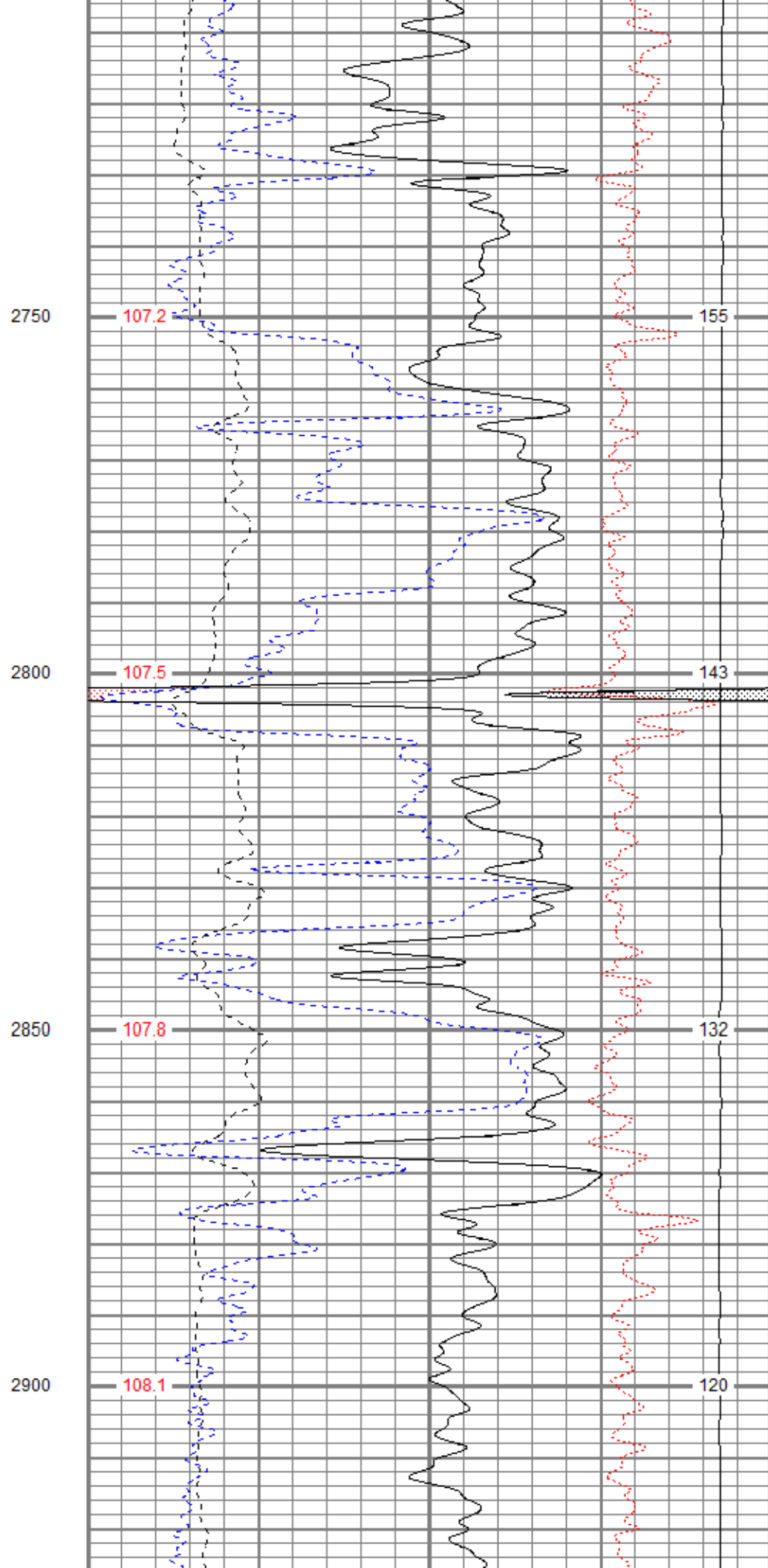
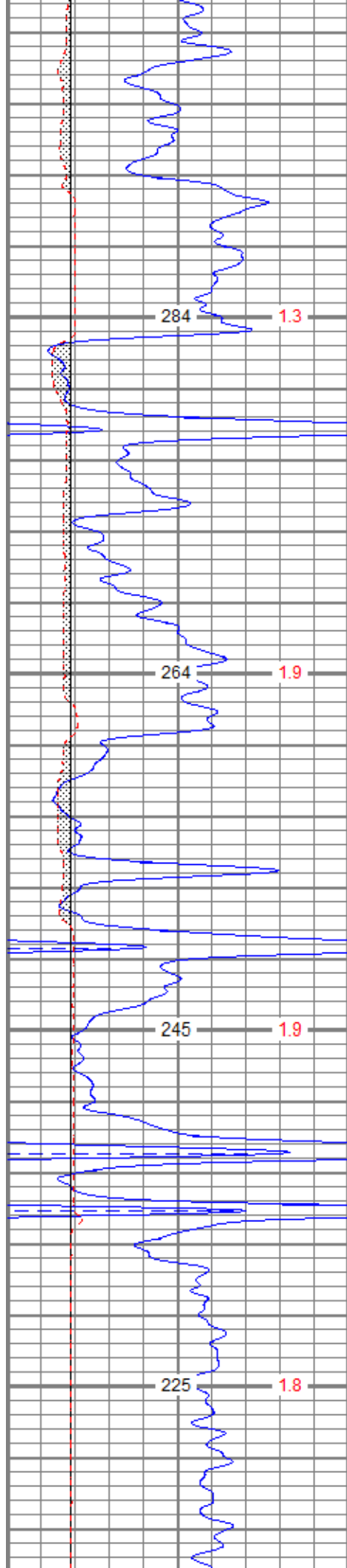
106.5

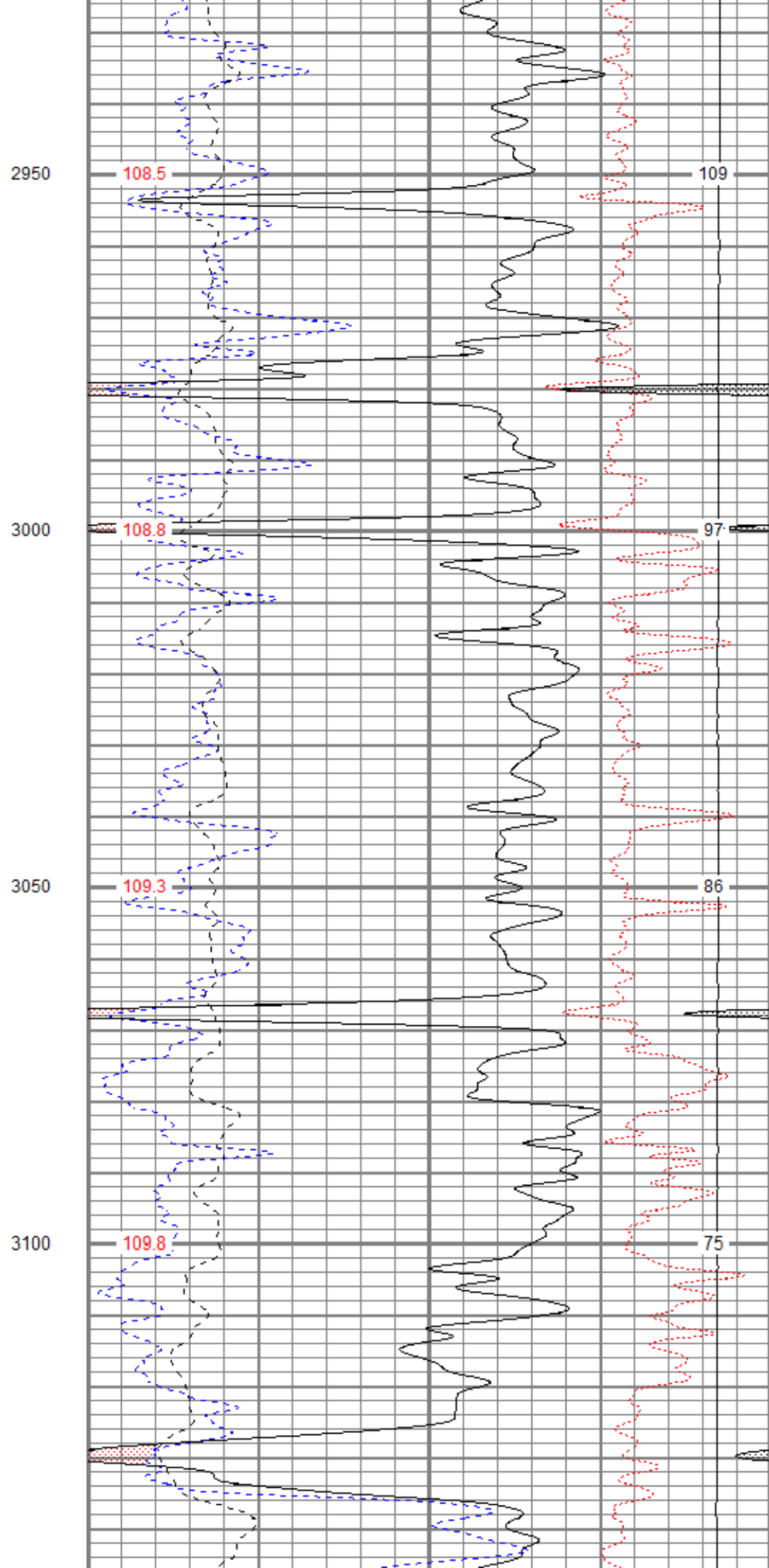
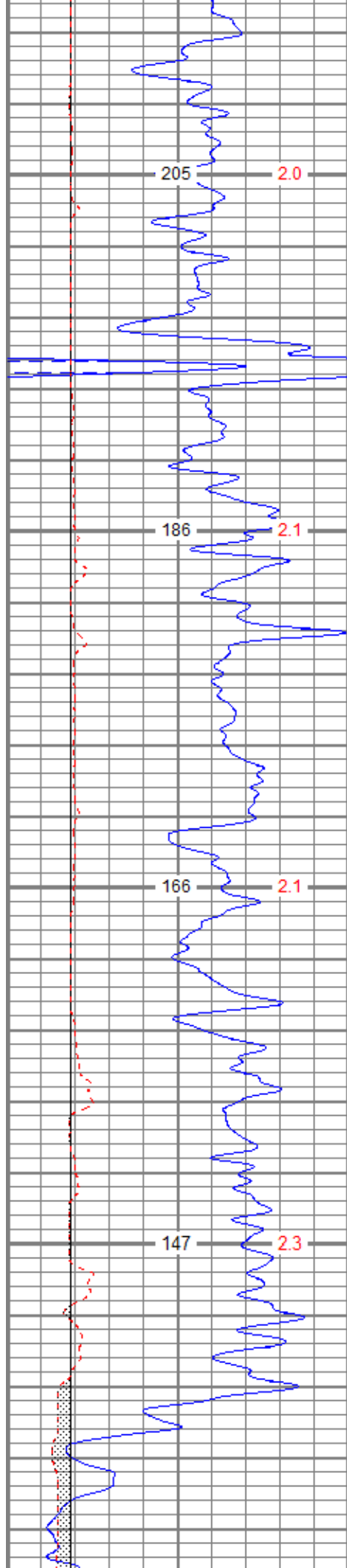
178

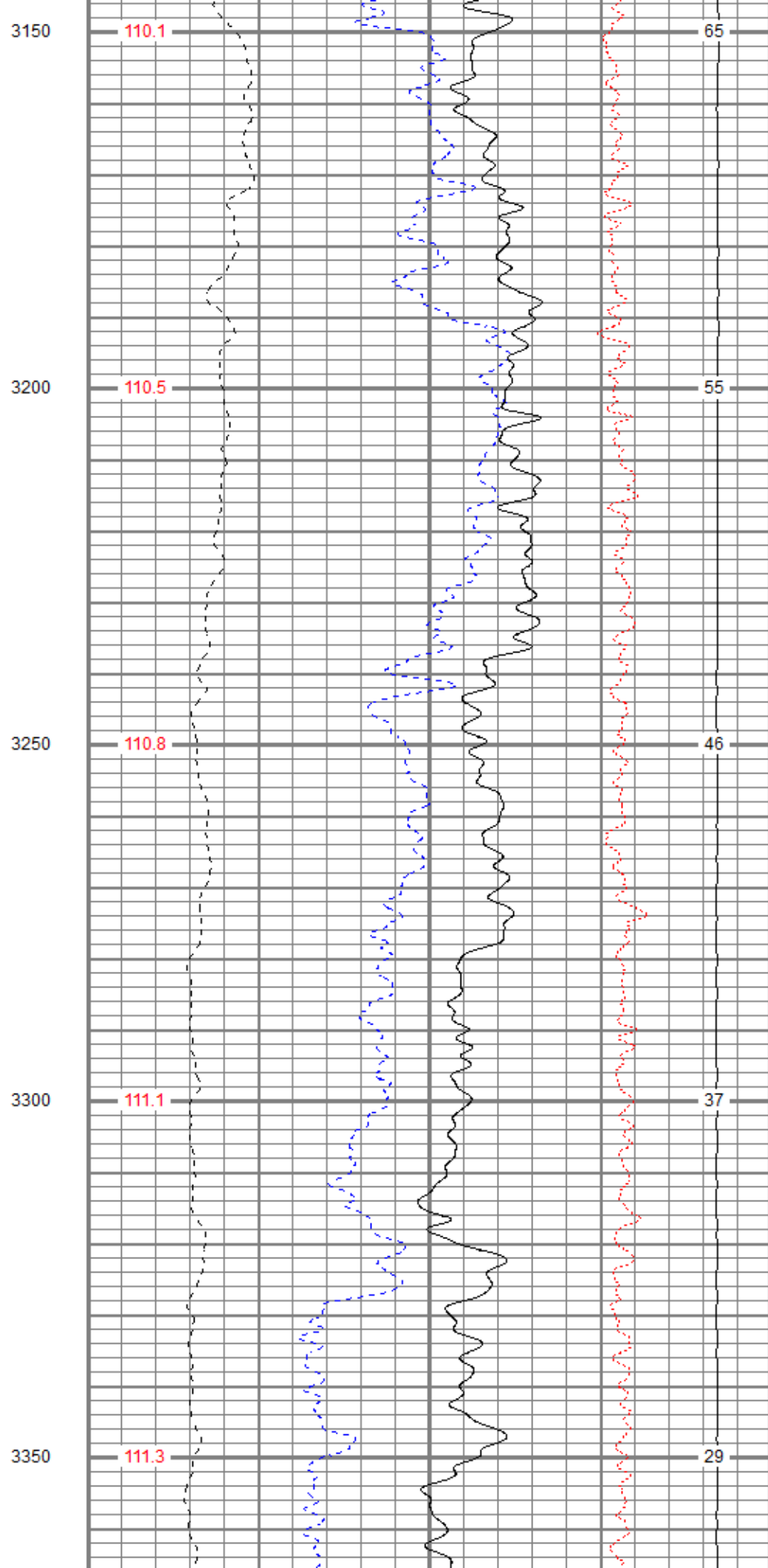
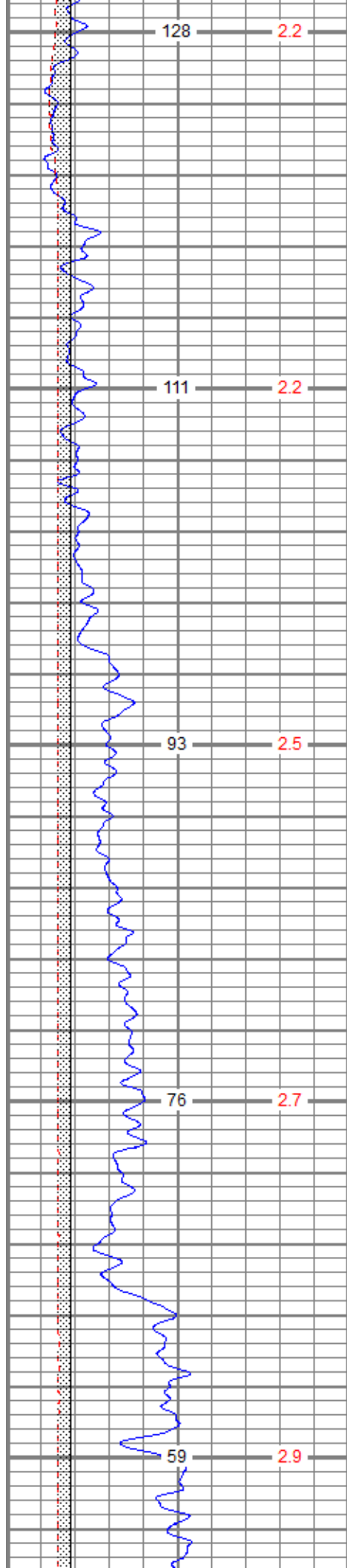
2700

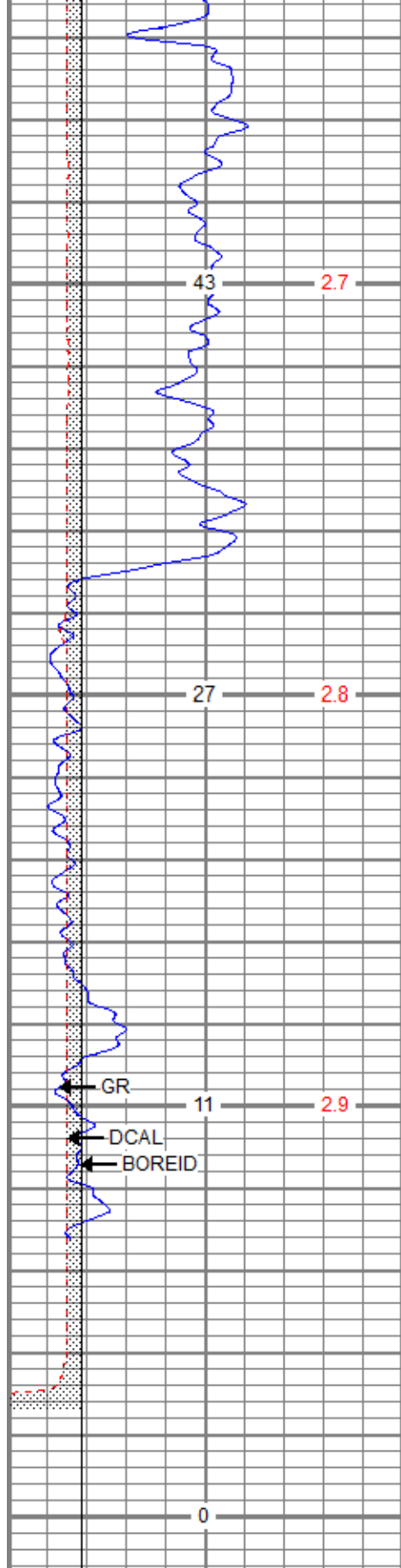
106.8

167

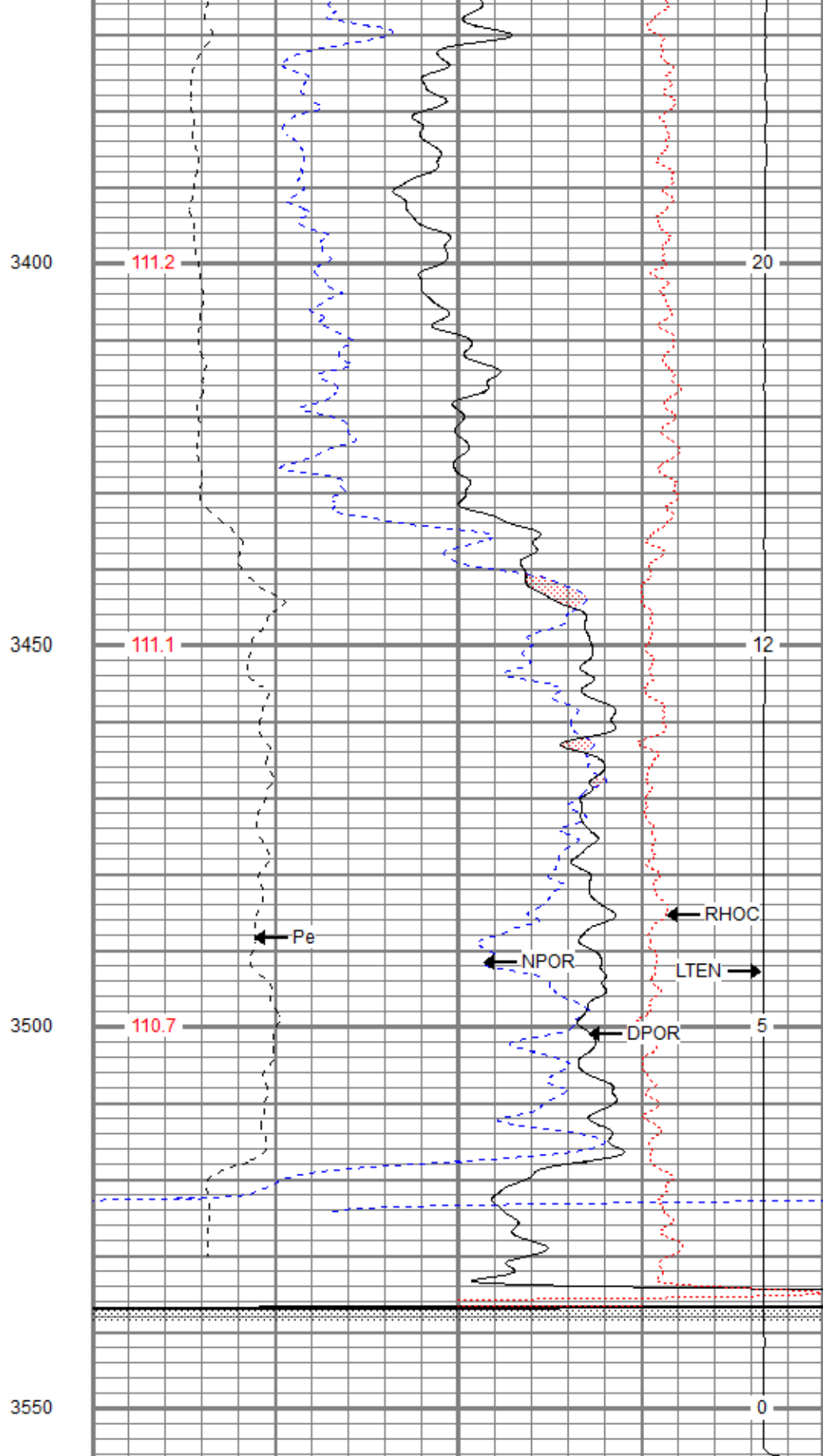








0	GR (GAPI)	150
6	BOREID (in)	16
6	MCAL (in)	16
TBHV (ft3)		DEVI (deg)



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

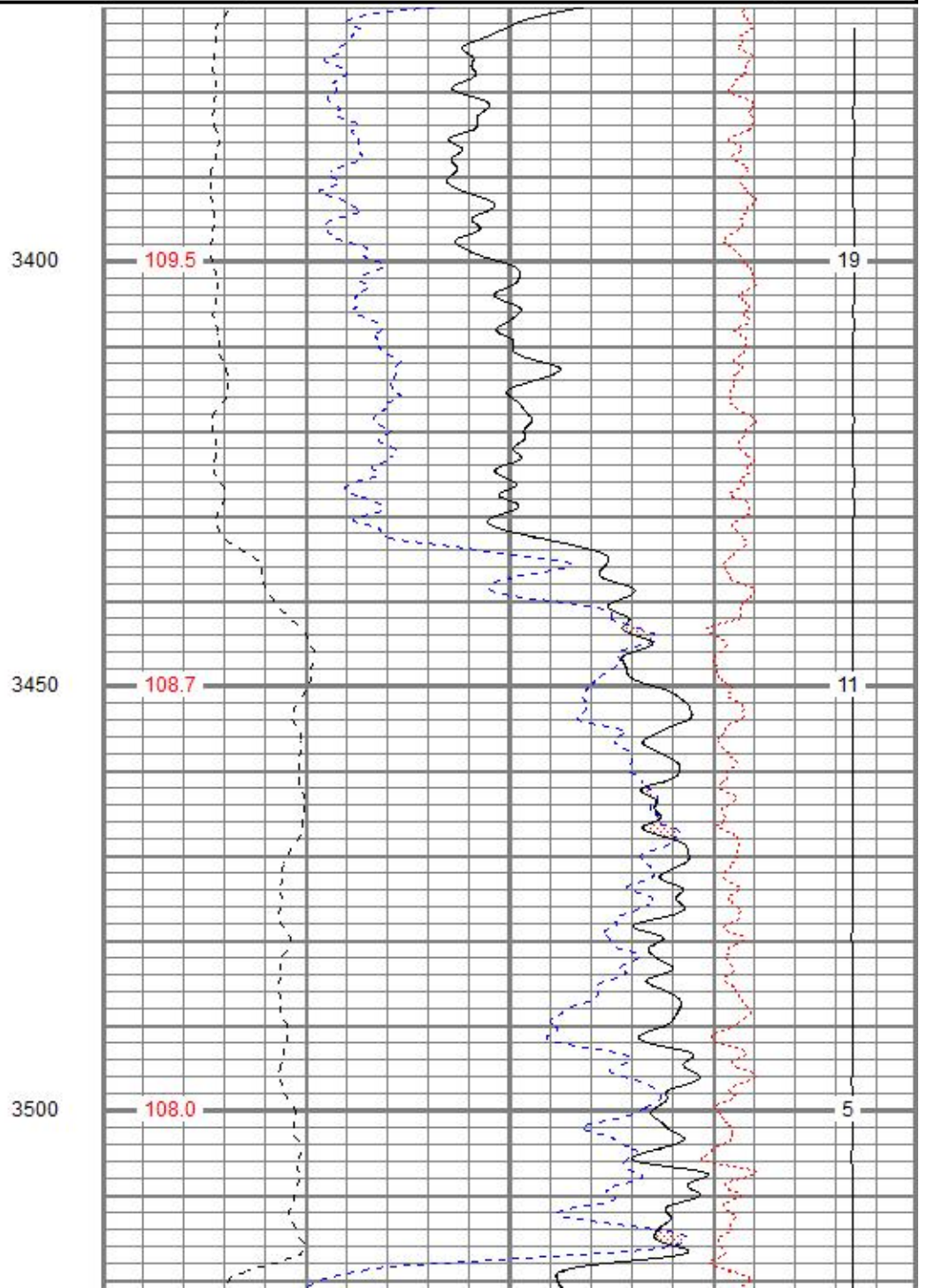
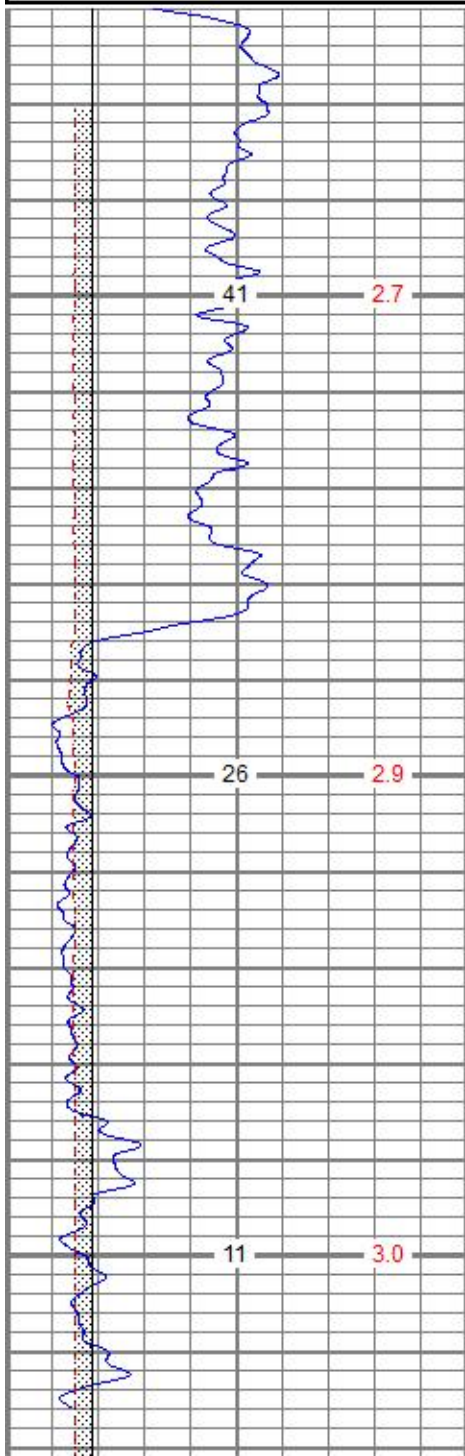


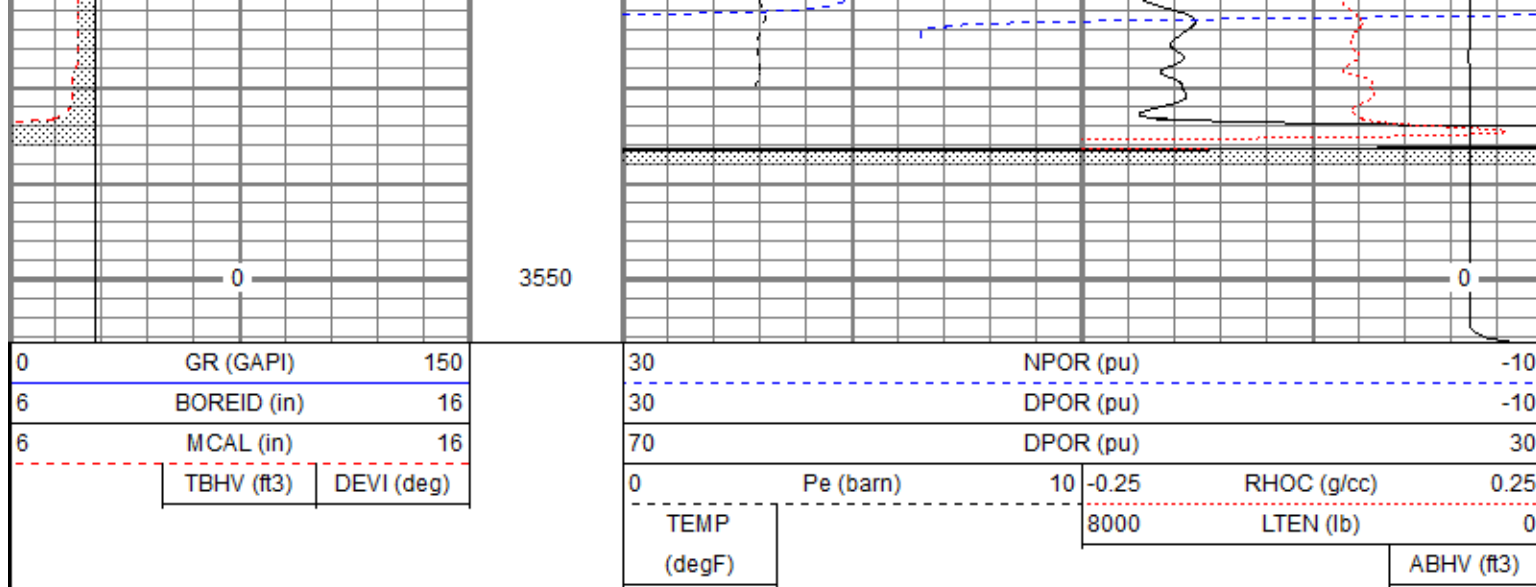
REPEAT PASS

Database File troclj3oh.db
 Dataset Pathname pass1.1
 Presentation Format digital_kcdnl
 Dataset Creation Mon Feb 13 06:11:51 2017
 Charted by Depth in Feet scaled 1:240

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

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





Calibration Report											
Database File	troclj3oh.db										
Dataset Pathname	pass2.1										
Dataset Creation	Mon Feb 13 06:02:42 2017										
Dual Induction Calibration Report											
Serial-Model:					1989-ADM						
Surface Cal Performed:					Fri Dec 09 04:19:59 2016						
Downhole Cal Performed:					Fri Dec 09 04:20:05 2016						
After Survey Verification Performed:					Fri Dec 09 04:20:08 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	180.177	-2.046			
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			

Neutron Calibration Report									
Serial Number:					Admyr				

Tool Model:	G	
Performed:	Fri Dec 09 04:18:49 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

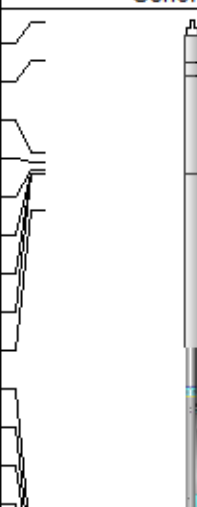
Serial Number:	1	
Tool Model:	A	
Performed:	Sun Dec 11 17:01:48 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

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:	Fri Dec 09 04:18:36 2016				
	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	39.60		CHD-STD	0.50	1.69	1.00
GR	38.32		ADT1PULSE-A (1)	0.83	3.50	10.00
TEMP	35.35		Pulsed Interface Tool #1			
ASTAT	35.06		ADT1ADC-A (1)	0.83	3.50	10.00
GRD	34.81		Analog Interface #1			
ACCY	34.65		ADT1SENSORS-A (1)	4.54	3.50	10.00
ACCX	34.65		NEU-G (Admyr)	5.65	3.50	85.00
SSTAT	34.65		Gearhart Epithermal			
NEU	33.46					
LStat	22.54					
LS8	21.88					
LS7	21.88					
LS6	21.88		ADT1LITH-A (1)	9.29	3.50	240.00

LS9	21.88		Admyr Litho Density Tool						
LS5	21.88								
LS4	21.88								
LS3	21.88								
LS2	21.88								
LS1	21.88								
LSV	21.88								
LSD	21.86								
SSV	21.67								
SS8	21.67								
SS7	21.67								
SS6	21.67		DIL-ADM (1989) Dual Induction	19.71	4.00	300.00			
SS5	21.67								
SS4	21.67								
SS3	21.67								
SS2	21.67								
SS1	21.67								
DCAL	21.61								
SSD	21.27								
SP	10.60								
CILD	10.60								
CILM	6.89	Dataset: troclfj3oh.db: field/well/run1/pass2.1							
RLL3	1.70	Total length: 39.69 ft							
TR_Mon	0.00	Total weight: 656.00 lb							
		O.D.: 4.00 in							