



LITHO DENSITY NEUTRON LOG

Company Taos Resources Operating Company LLC
Well Hawkins #27-1
Field Maddix North
County Cowley
State Kansas

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Well Hawkins #27-1
Field Maddix North
County Cowley State Kansas

Location: API #: 15 035 24683
965' FSL & 338' FWL
SEC 27 TWP 32S RGE 5E
Permanent Datum Ground Level Elevation 1258'
Log Measured From KB 5' AGL
Drilling Measured From KB
Other Services
DIL
BCS
ML
Elevation
K.B. 1263'
D.F. 1262'
G.L. 1258'

Date	4-1-18		
Run Number	One		
Depth Driller	3558'		
Depth Logger	3559'		
Bottom Logged Interval	3537'		
Top Log Interval	350'		
Casing Driller	8 5/8" @ 218'		
Casing Logger	218'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.6/67		
pH / Fluid Loss	10.0/6.4		
Source of Sample	Pit		
Rm @ Meas. Temp	1.70@74degf		
Rmf @ Meas. Temp	1.36@74degf		
Rmc @ Meas. Temp	2.18@74degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.21@104degf		
Time Circulation Stopped	6:45 p.m.		
Time Logger on Bottom	9:00 p.m.		
Maximum Recorded Temperature	104degf		
Equipment Number	T-127		
Location	Hays, KS		
Recorded By	C. Patterson		
Witnessed By	Mr. Mike Pressnall	Mr. Ray Dorothy	

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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

East of Winfield(Main St. and 160 Hwy) 6.5 mi. to 151st rd.,
3/4 mi. south on 151st Rd. ,East into Location

Thank you for using Gemini Wireline
785-625-1182

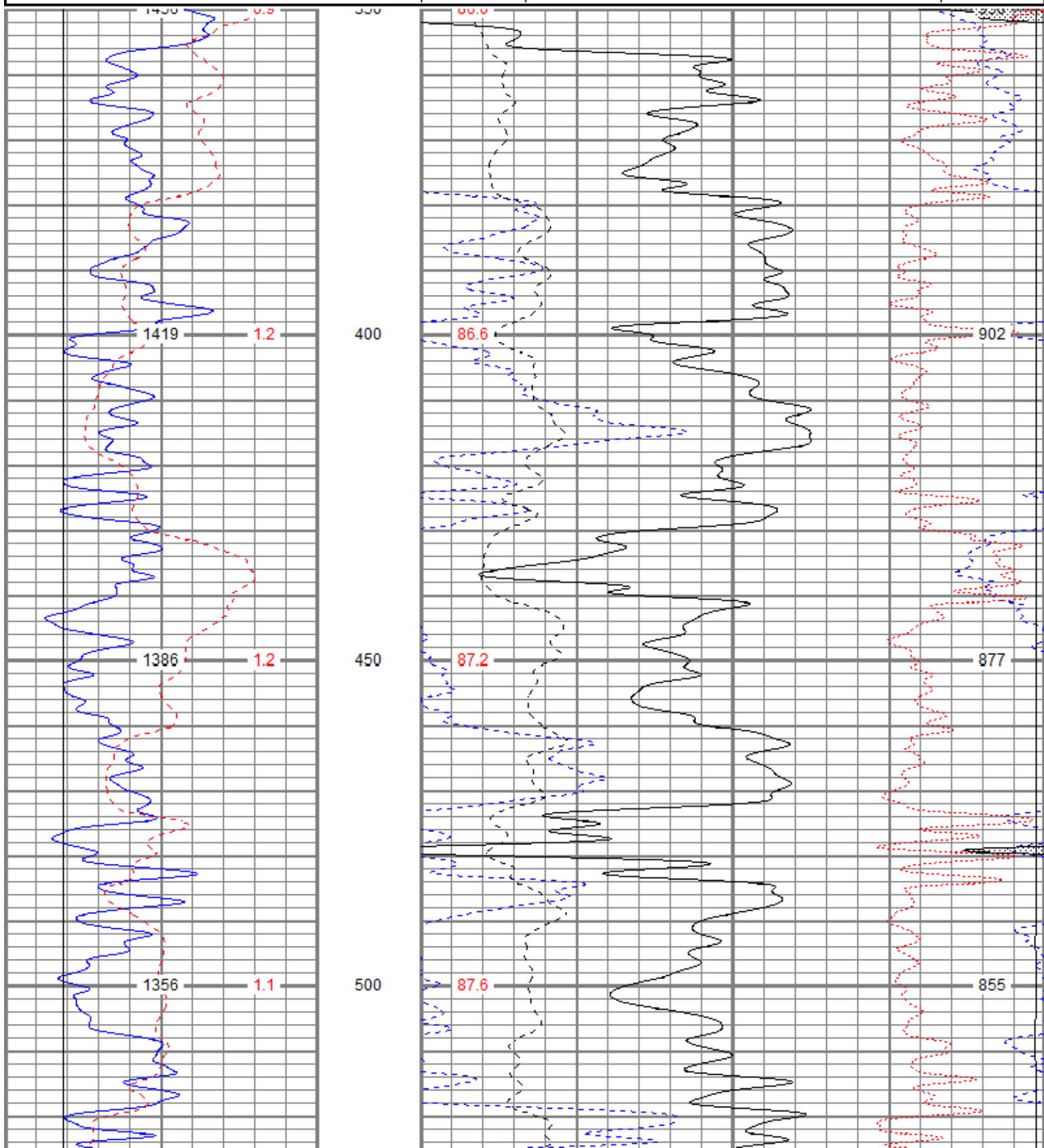


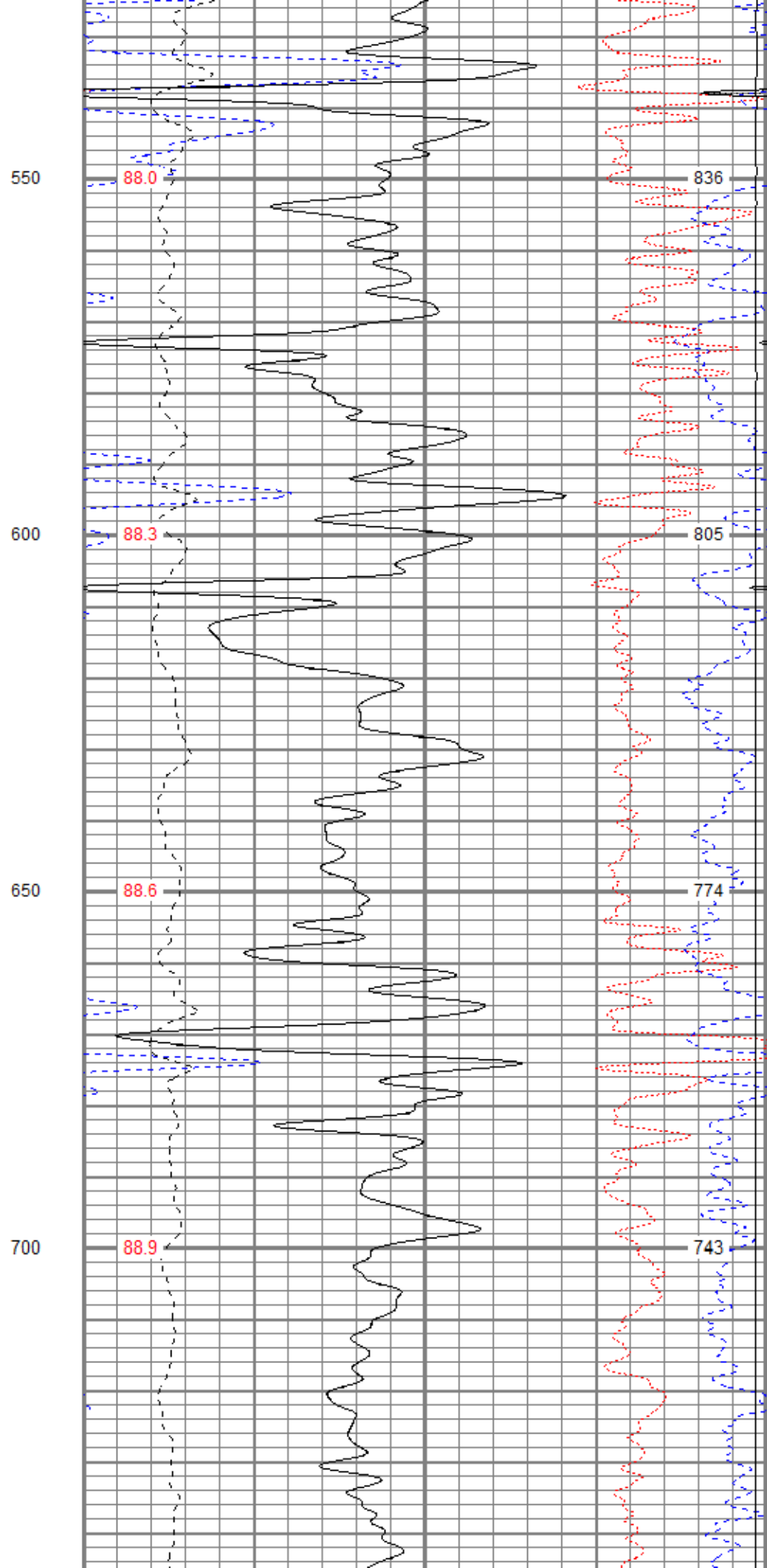
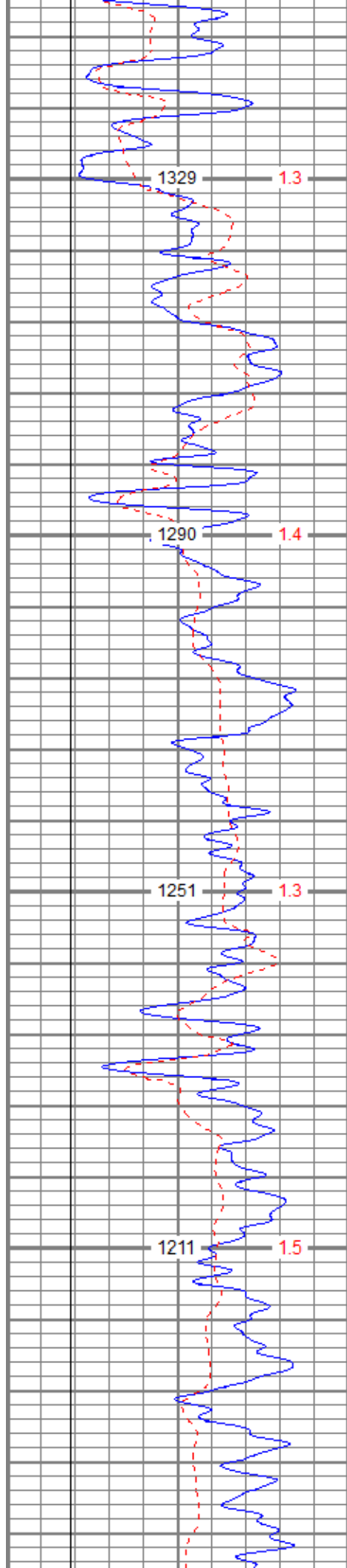
MAIN PASS

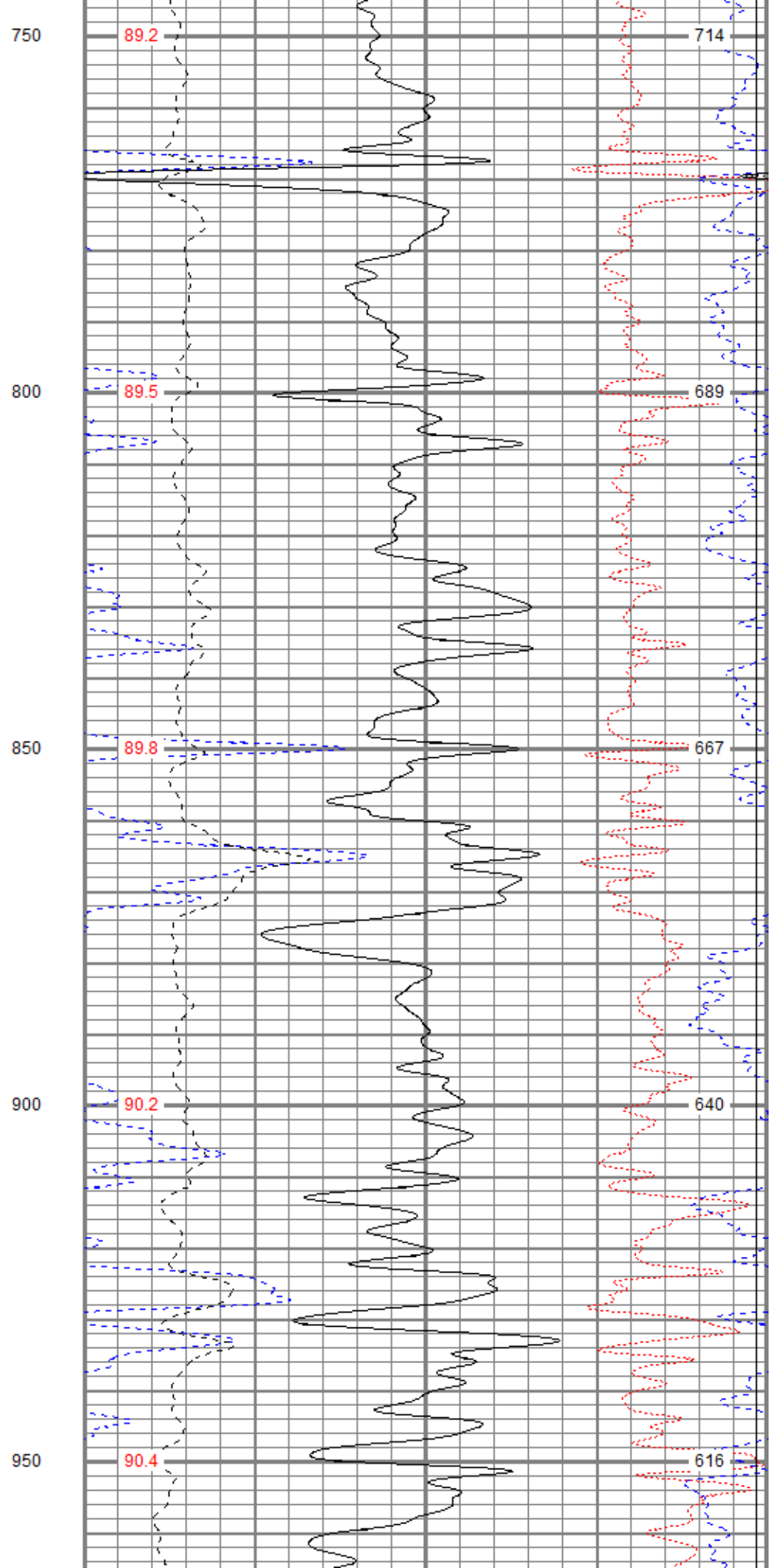
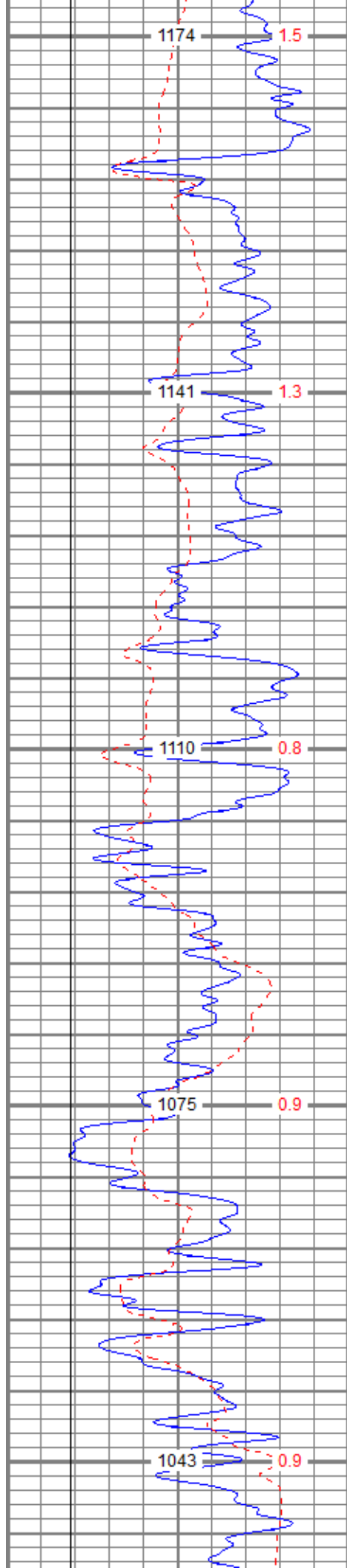
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 Dataset Pathname pass2.1
 Presentation Format digital_kcdnl
 Dataset Creation Sun Apr 01 22:40:55 2018
 Charted by Depth in Feet scaled 1:240

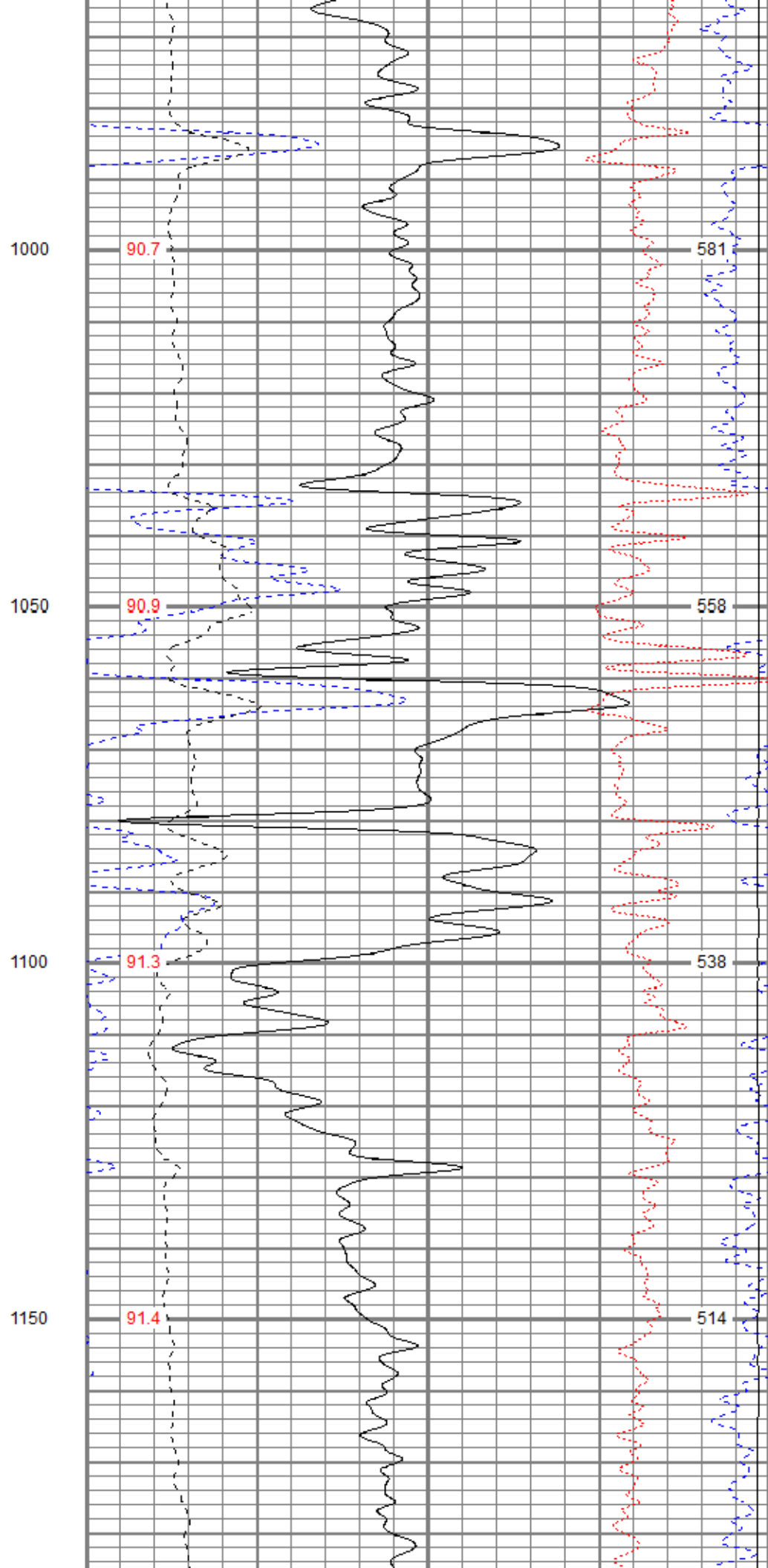
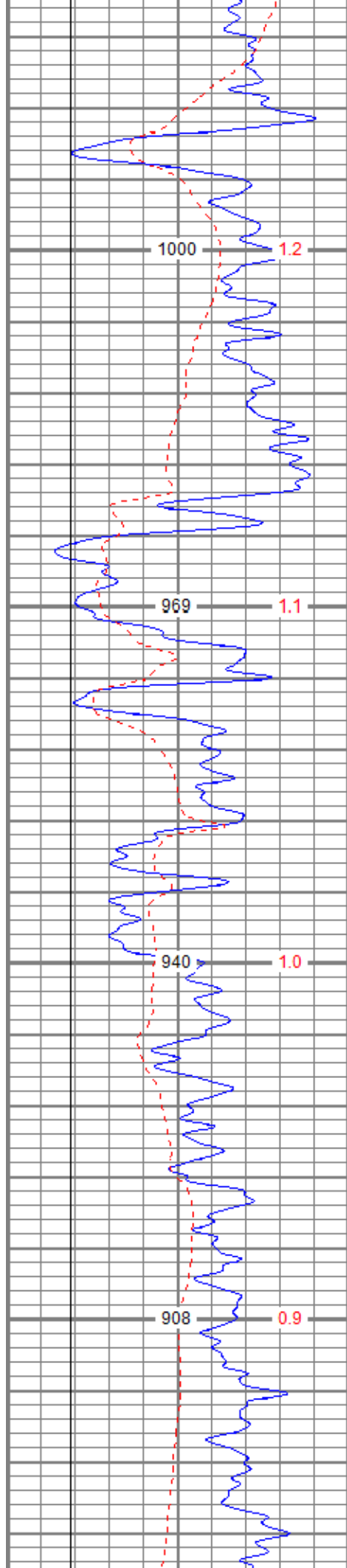
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

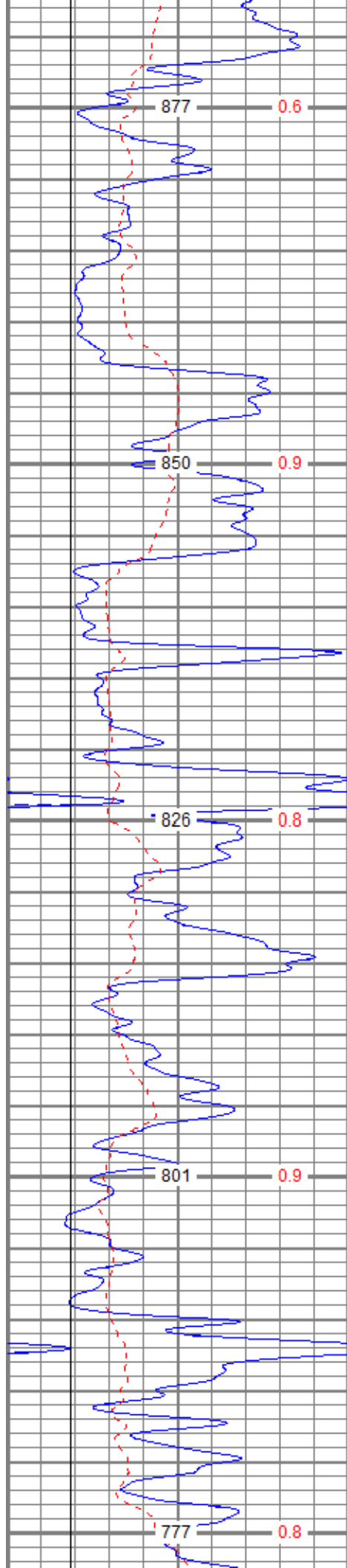
30		NPOR (pu)		-10	
30		DPOR (pu)		-10	
70		DPOR (pu)		30	
0	Pe (barn)	10	-0.25	RHOC (g/cc)	0.25
TEMP (degF)		8000	LTEN (lb)		0
			ABHV (ft3)		











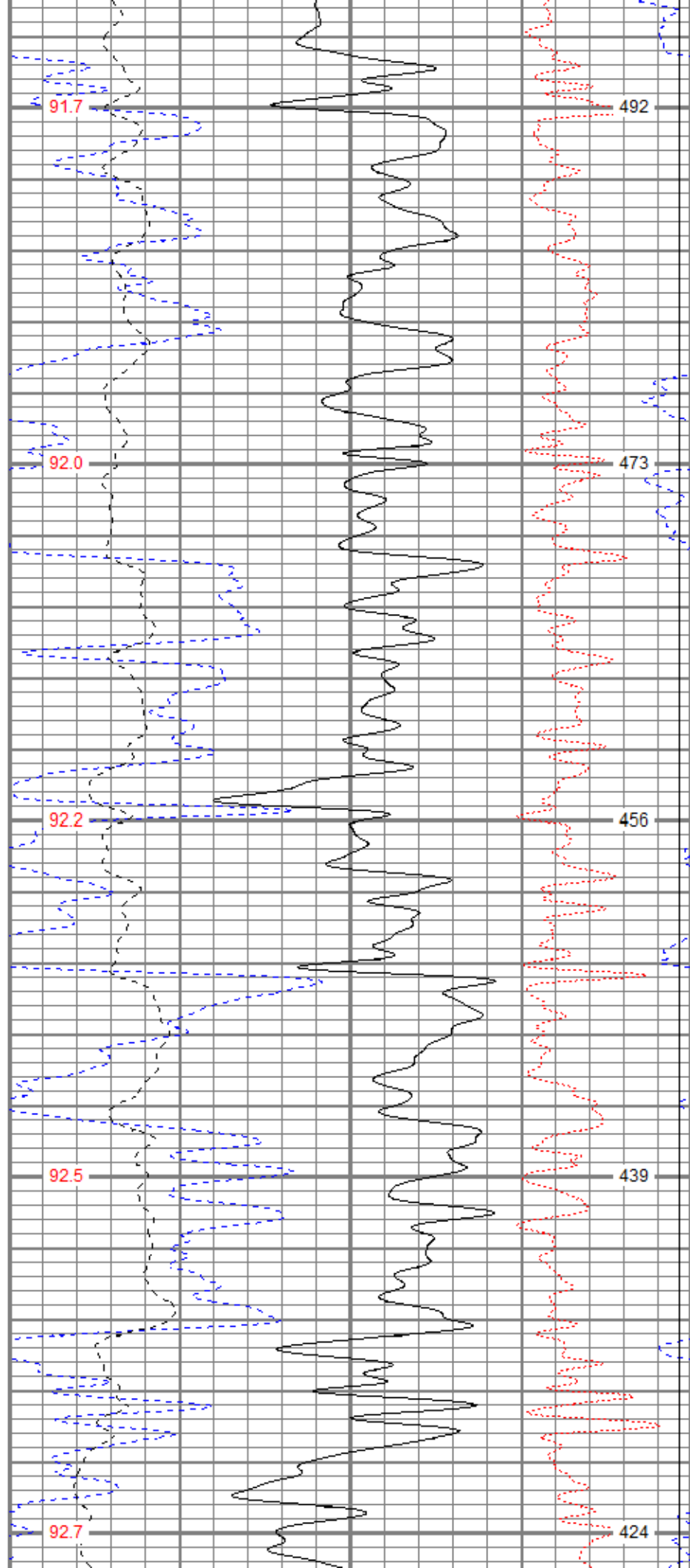
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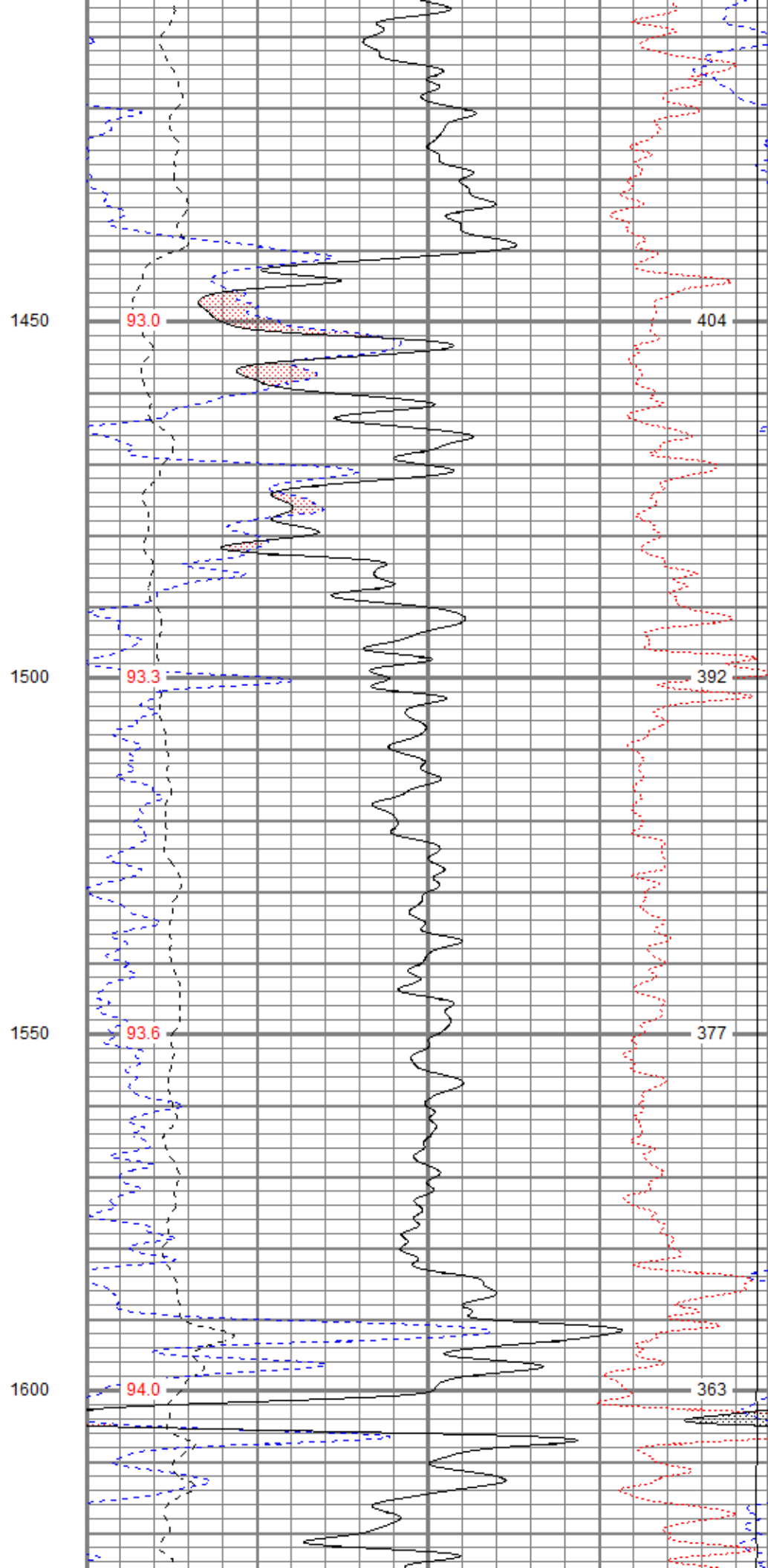
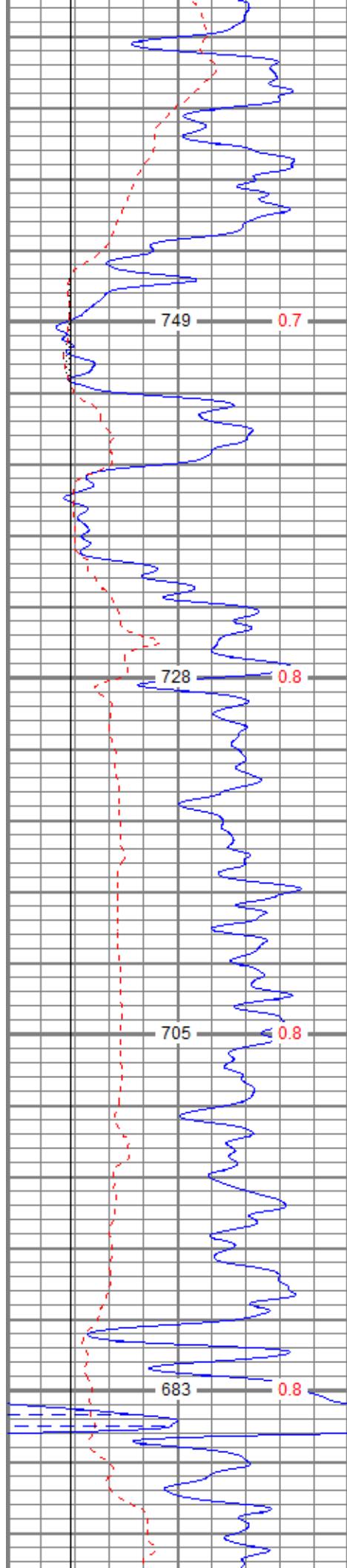
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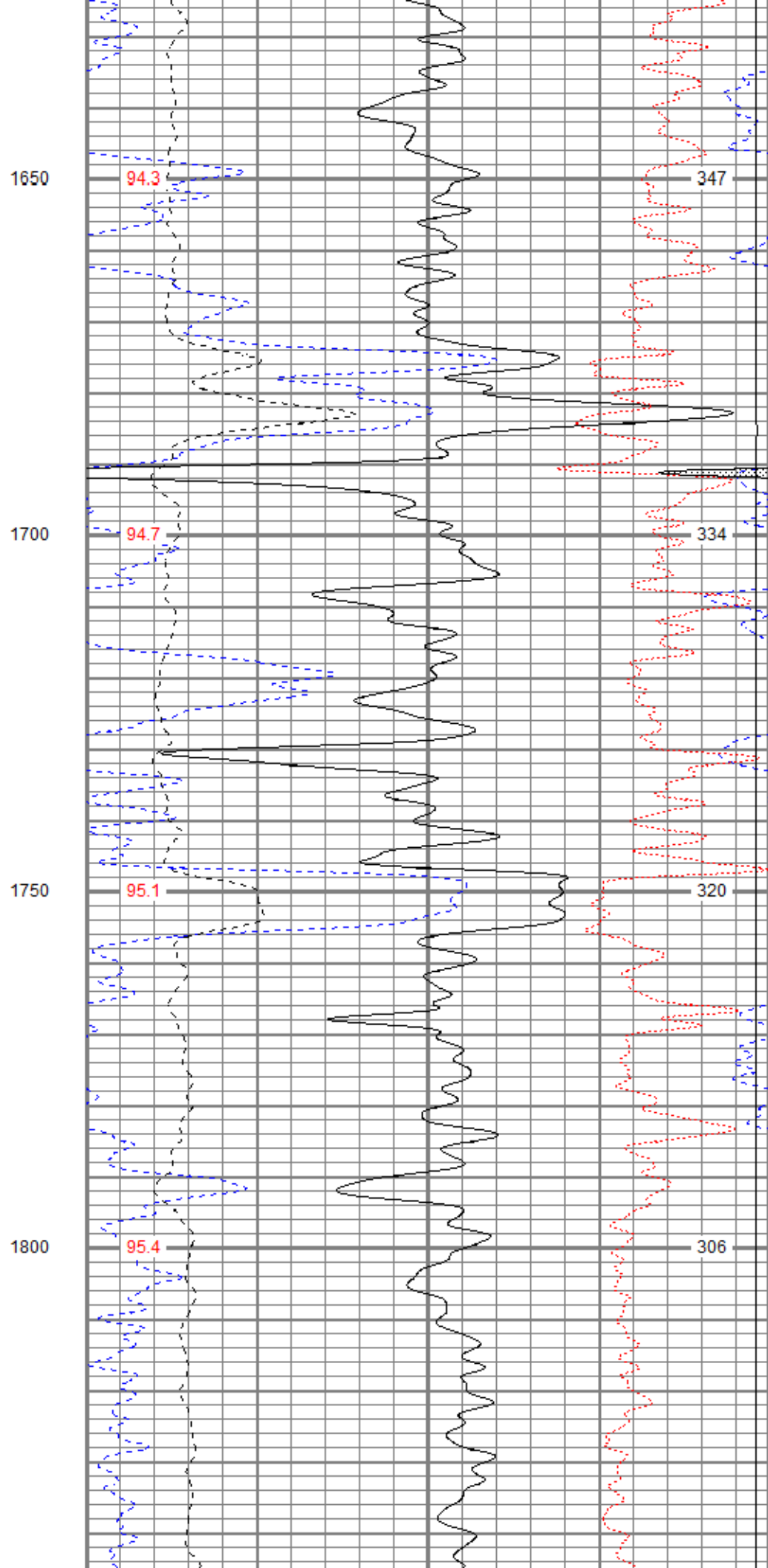
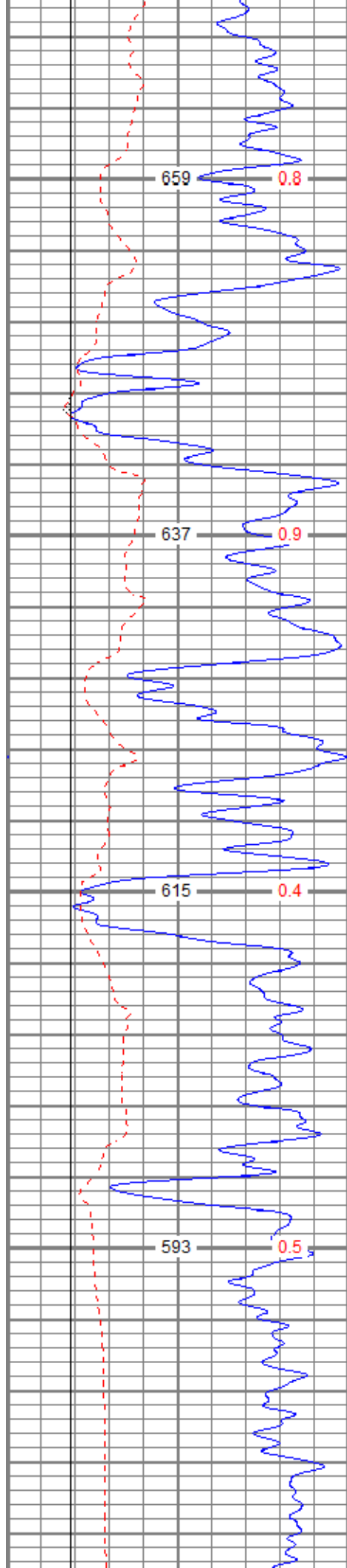
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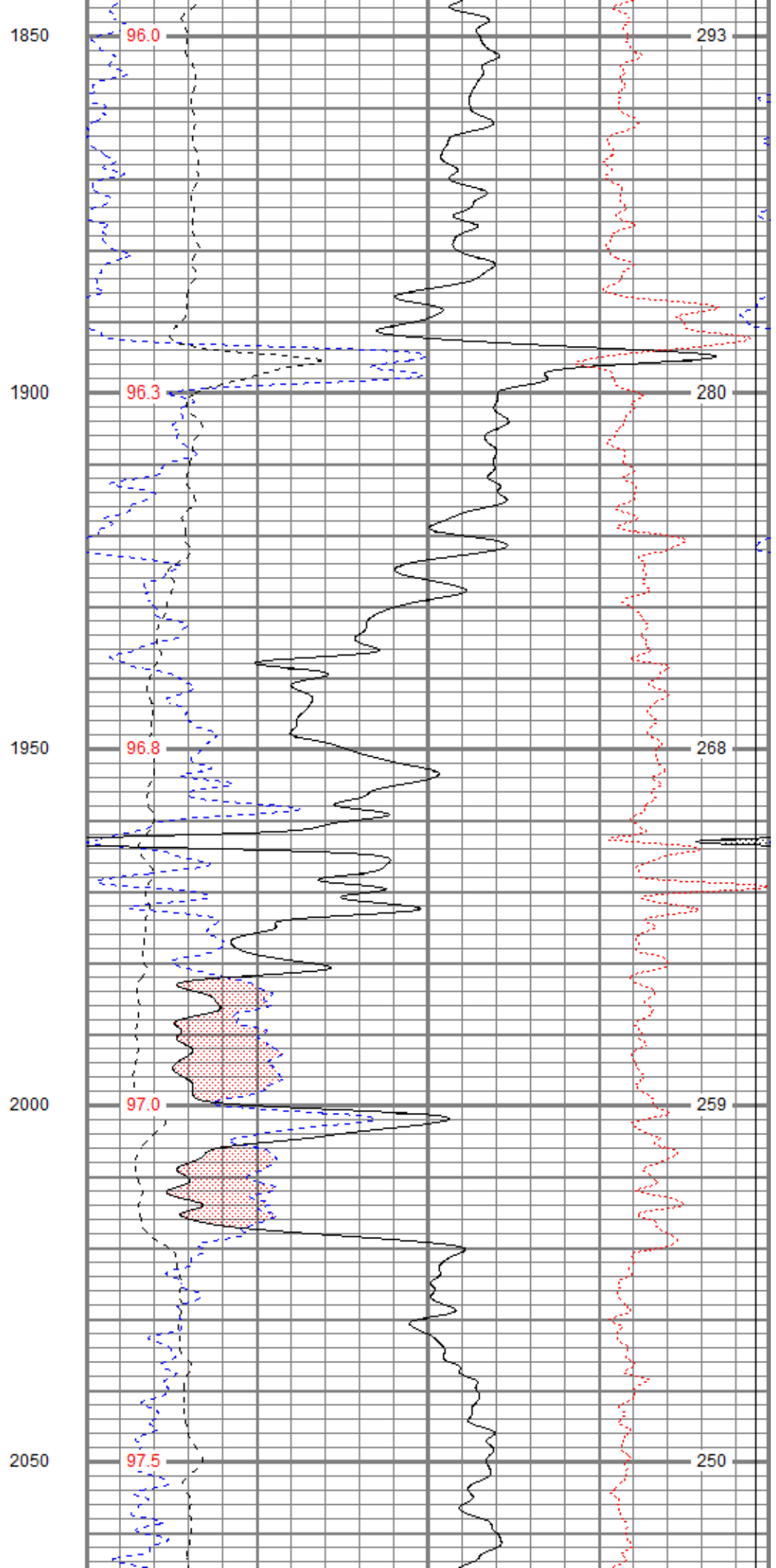
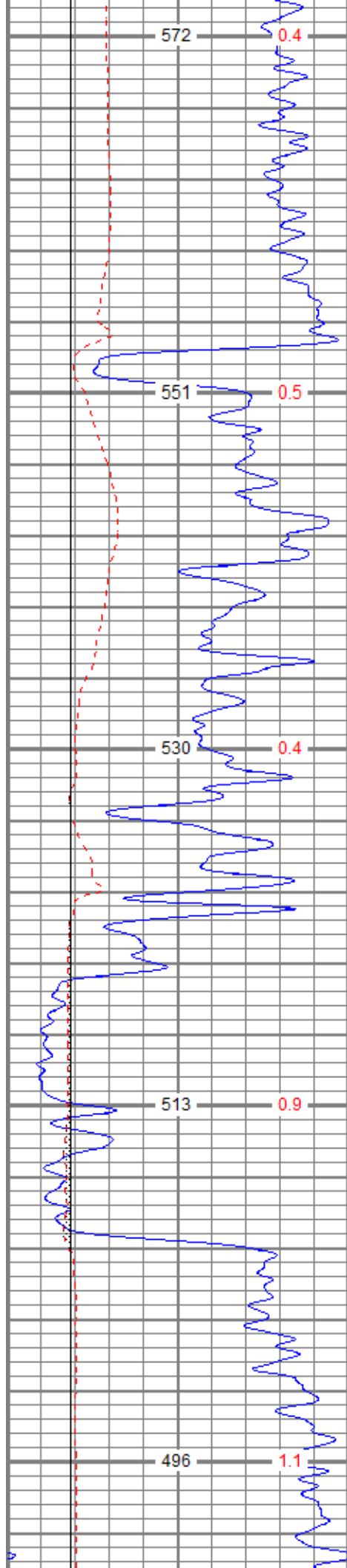
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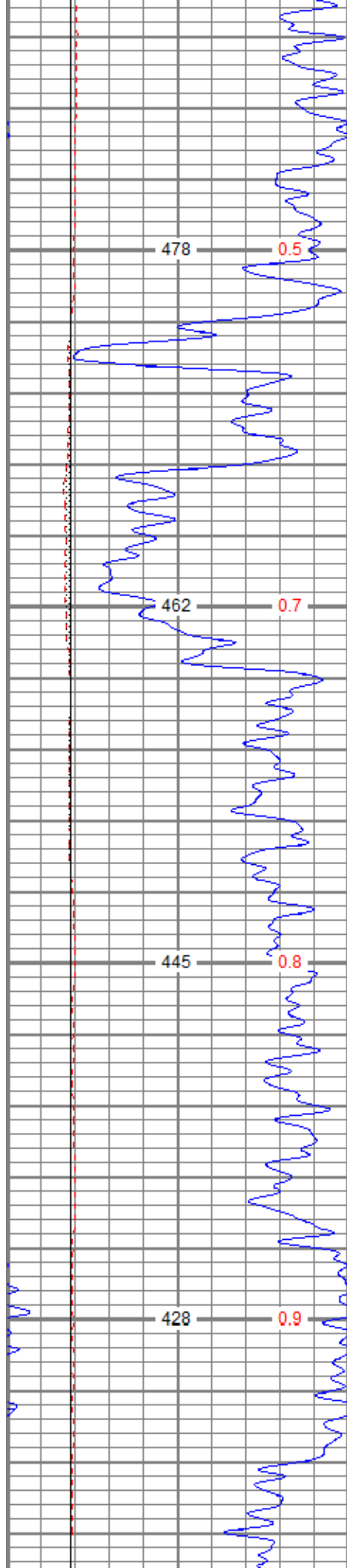
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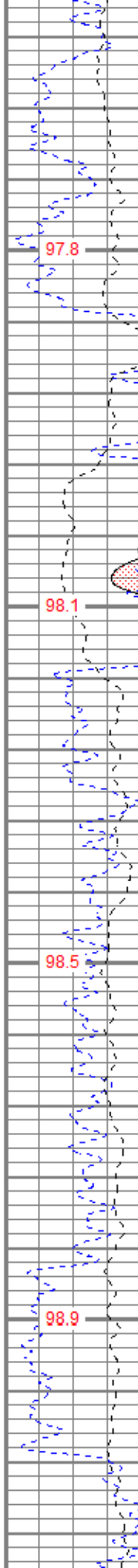


2100

2150

2200

2250

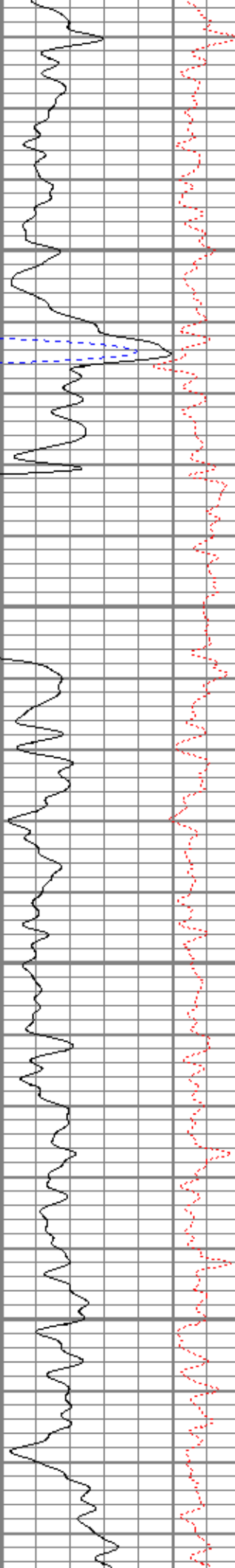


2100

2150

2200

2250

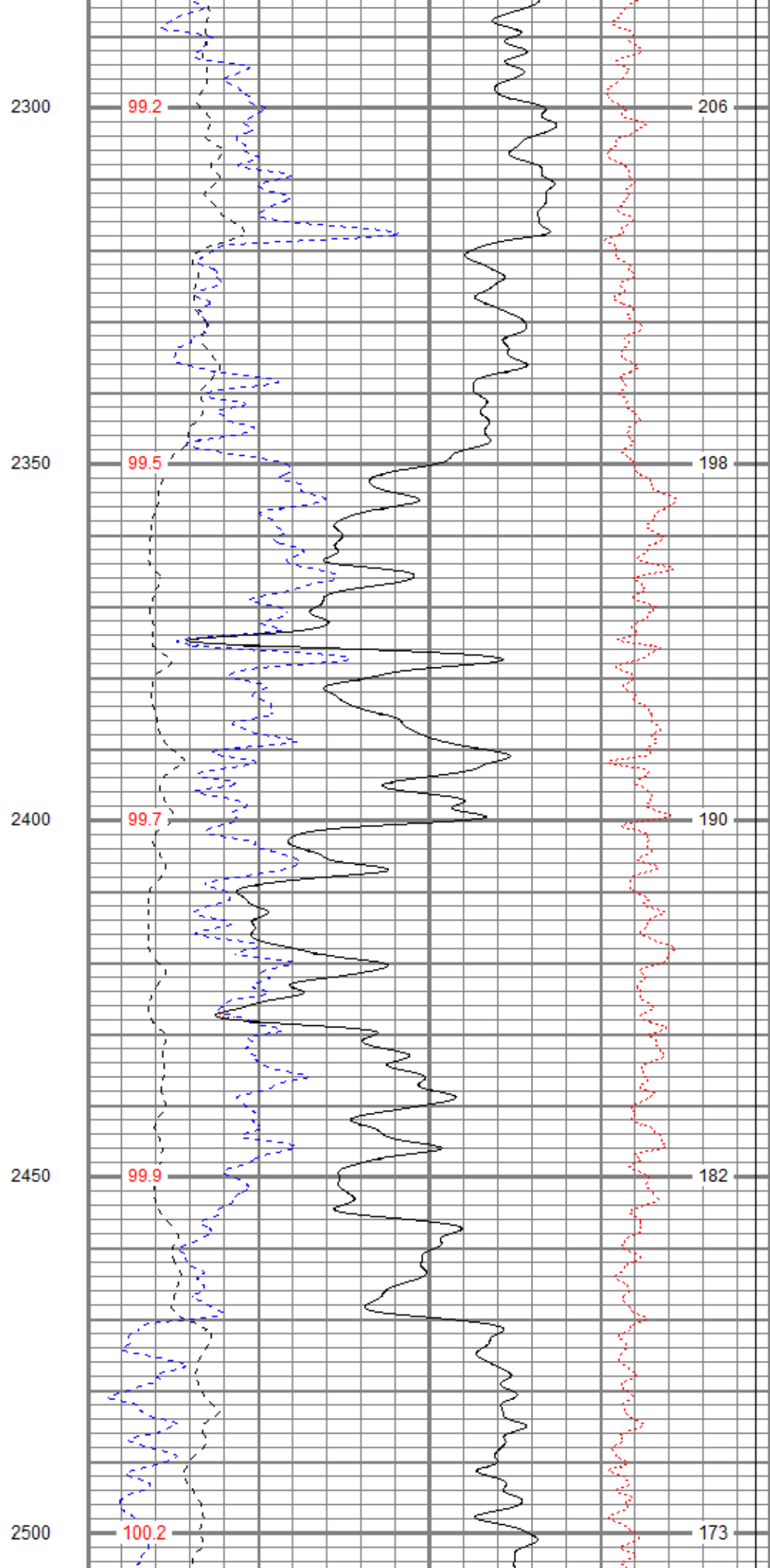
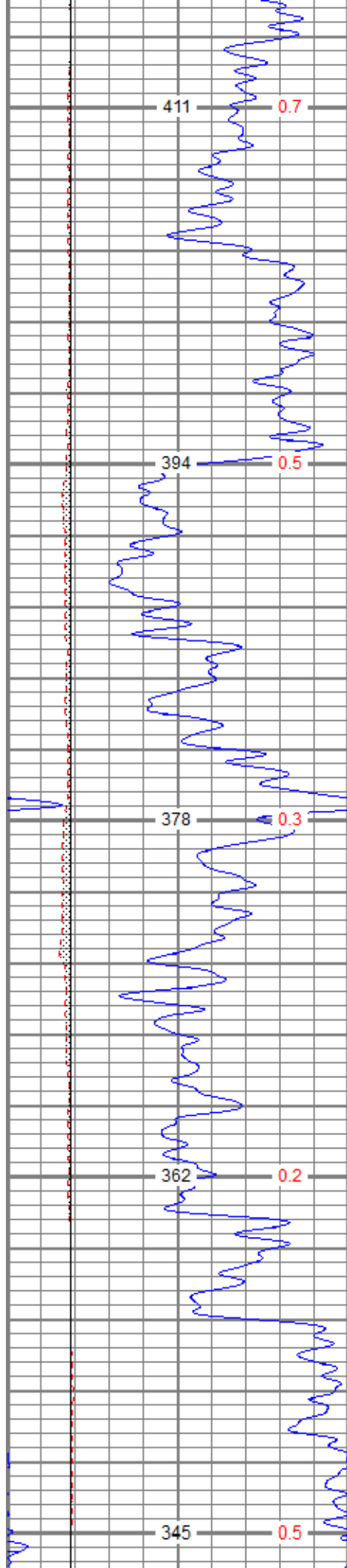


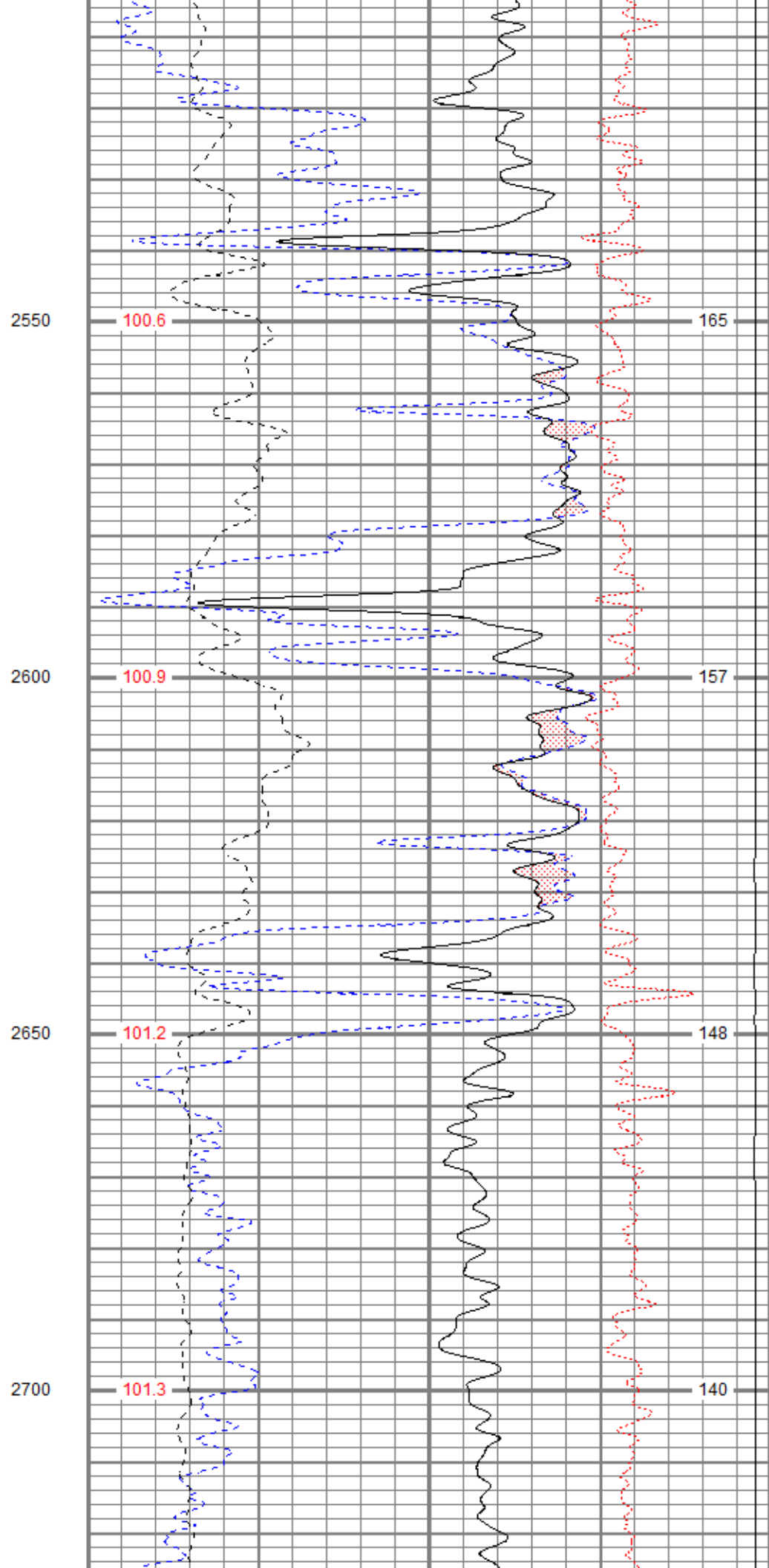
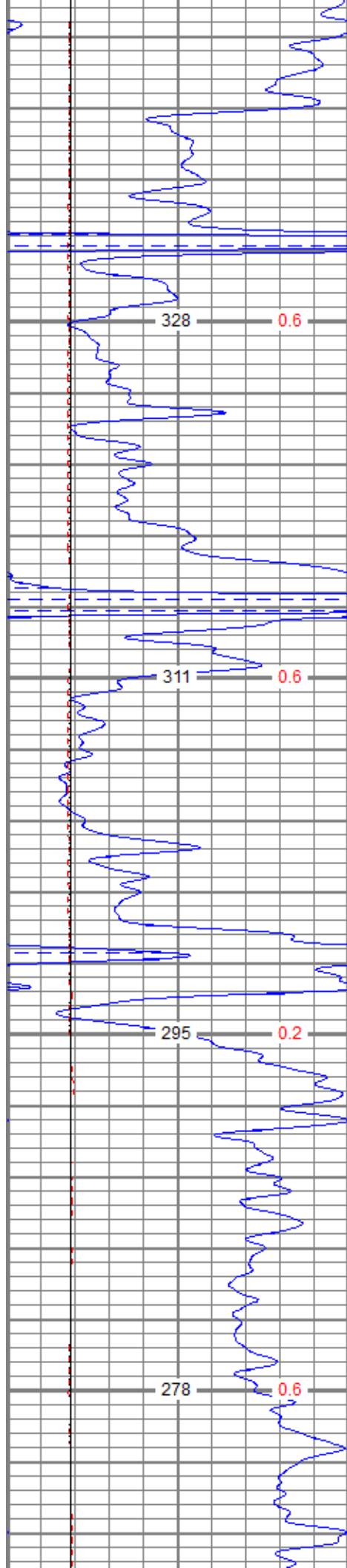
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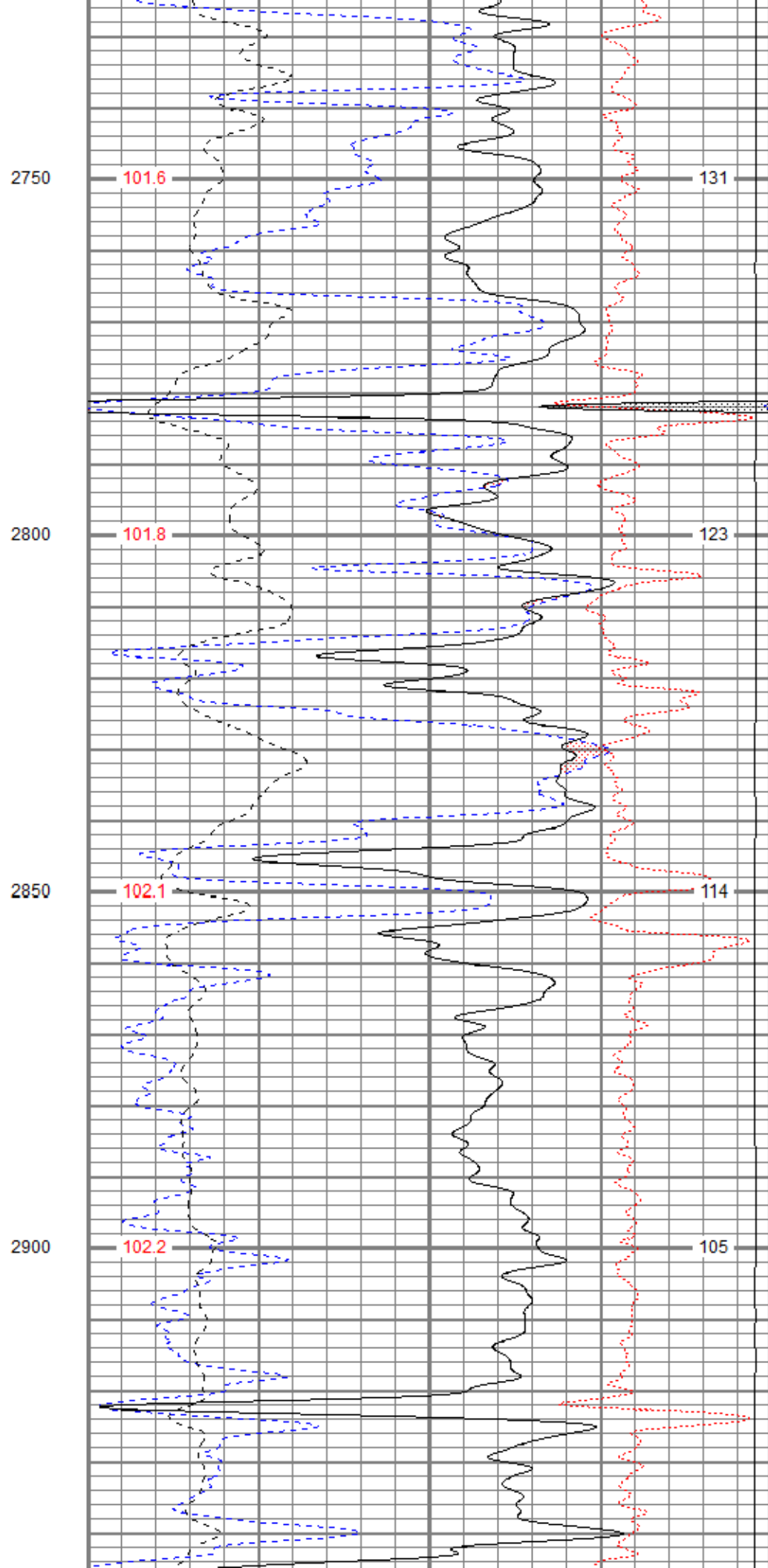
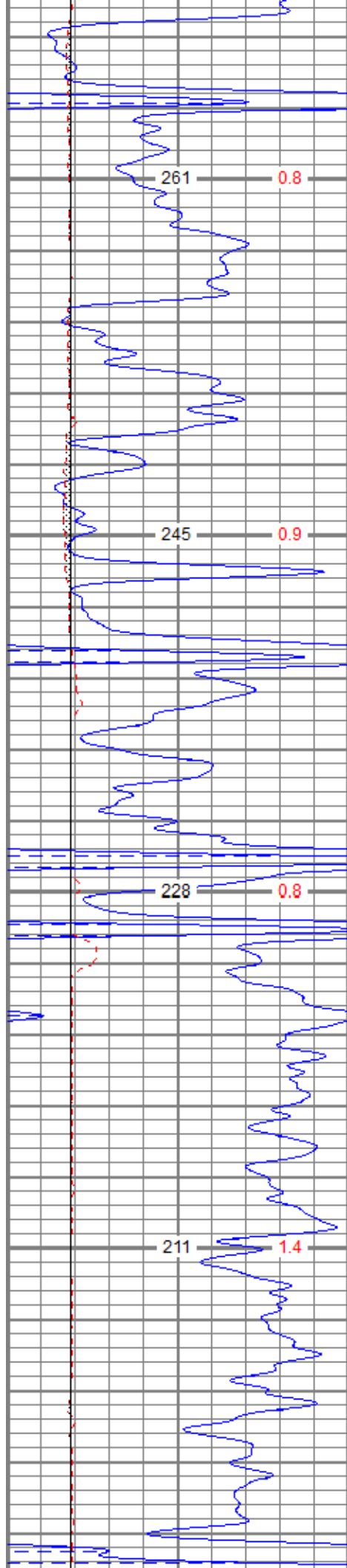
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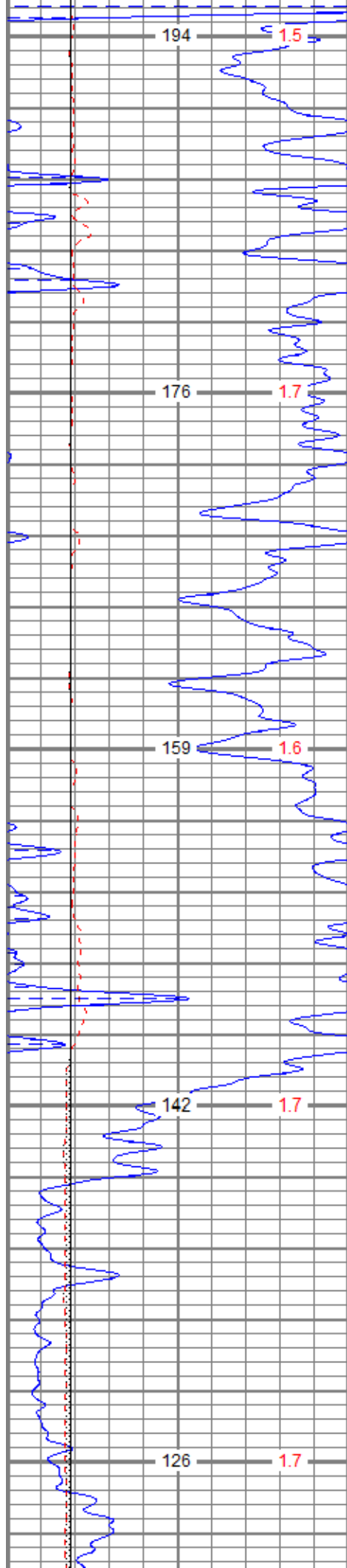
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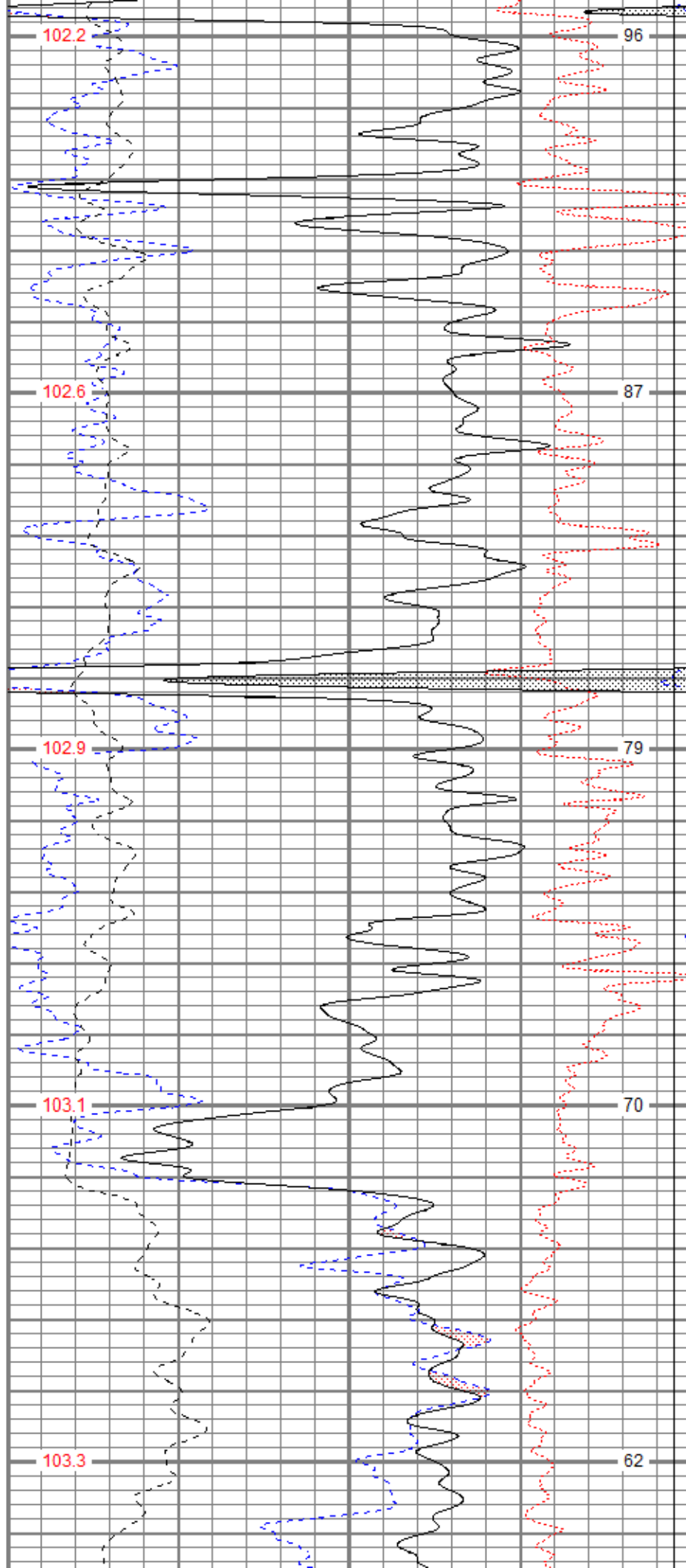
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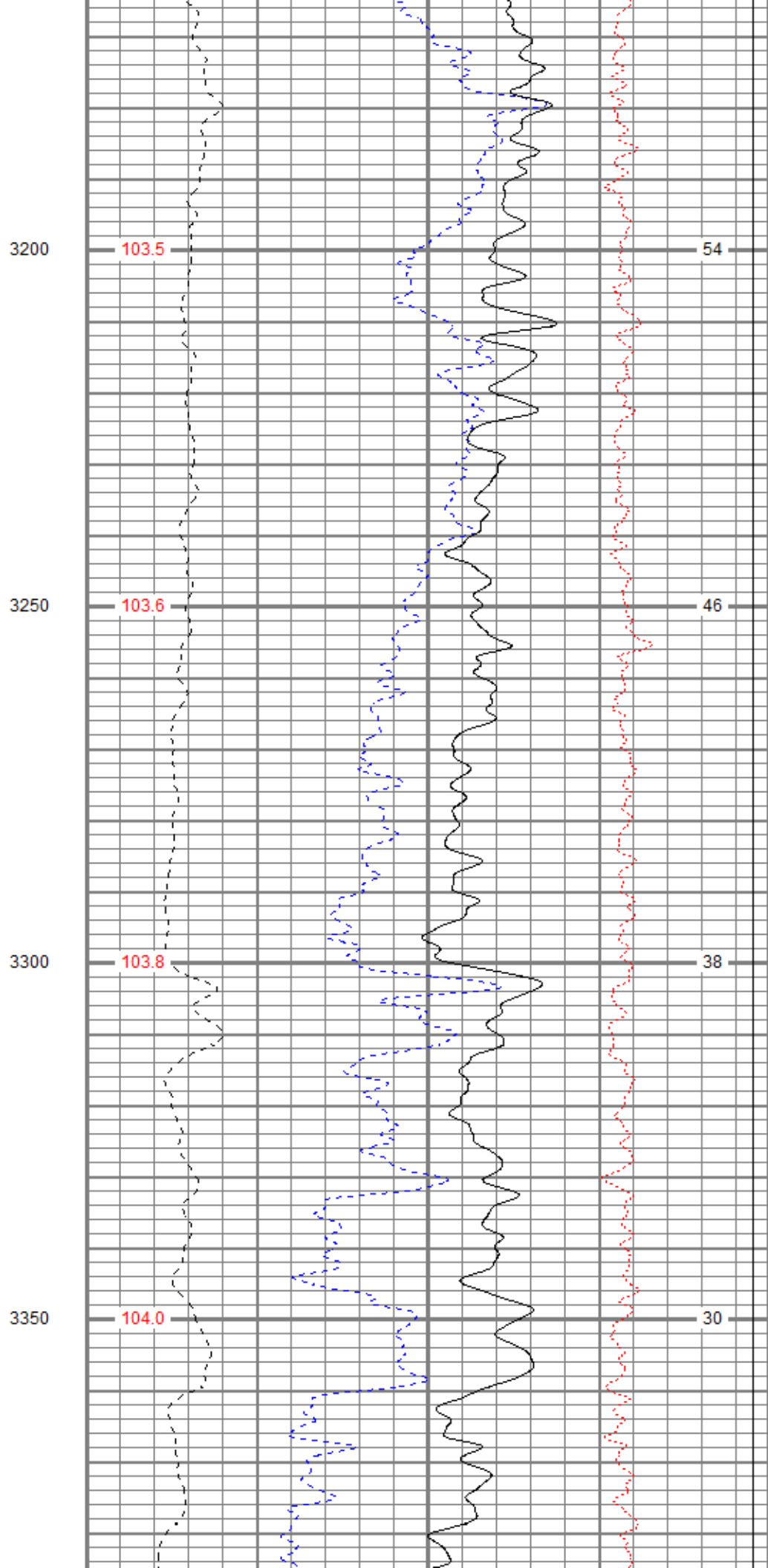
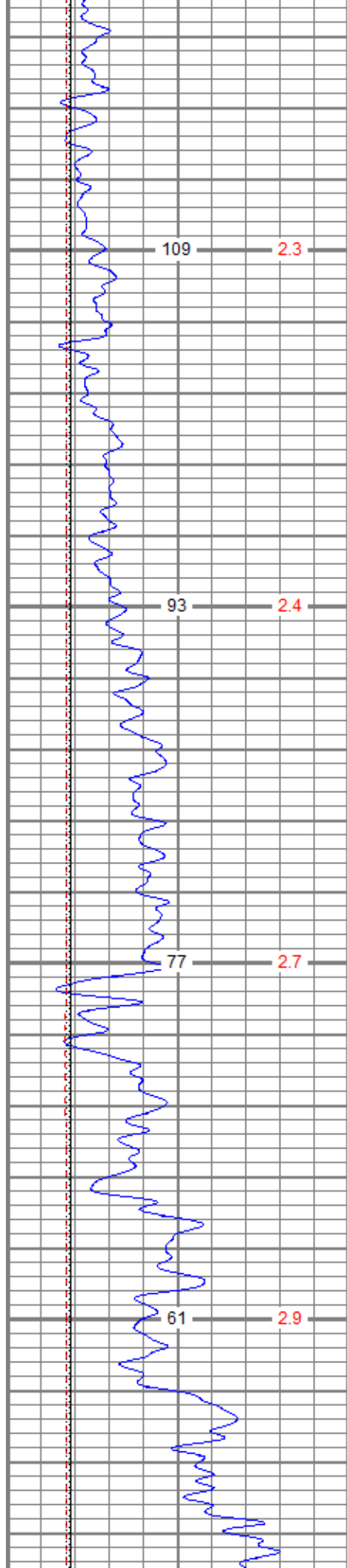
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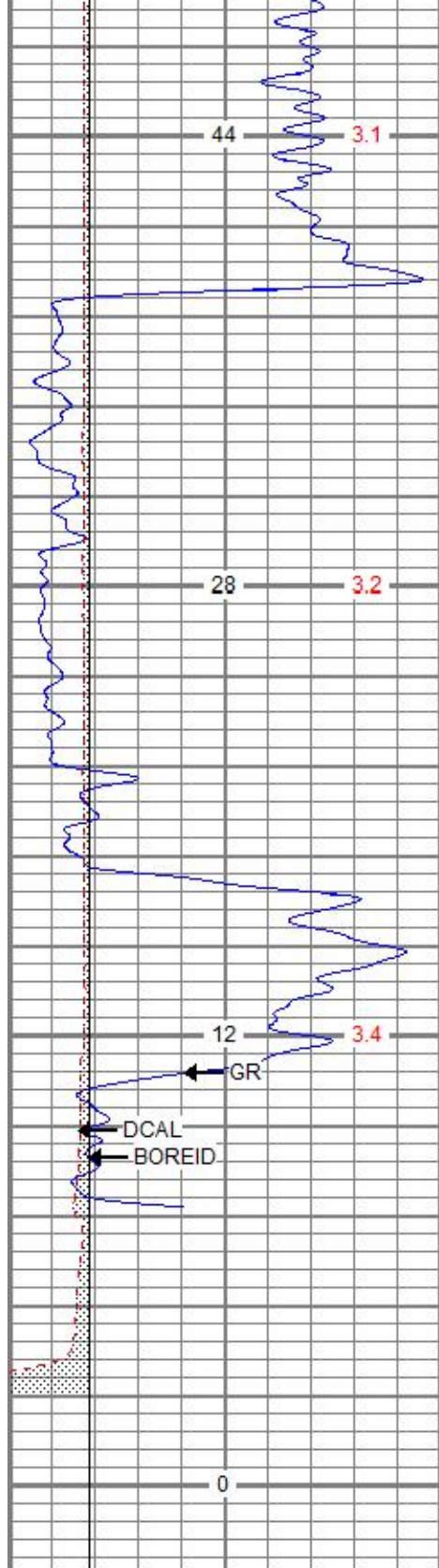
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3100

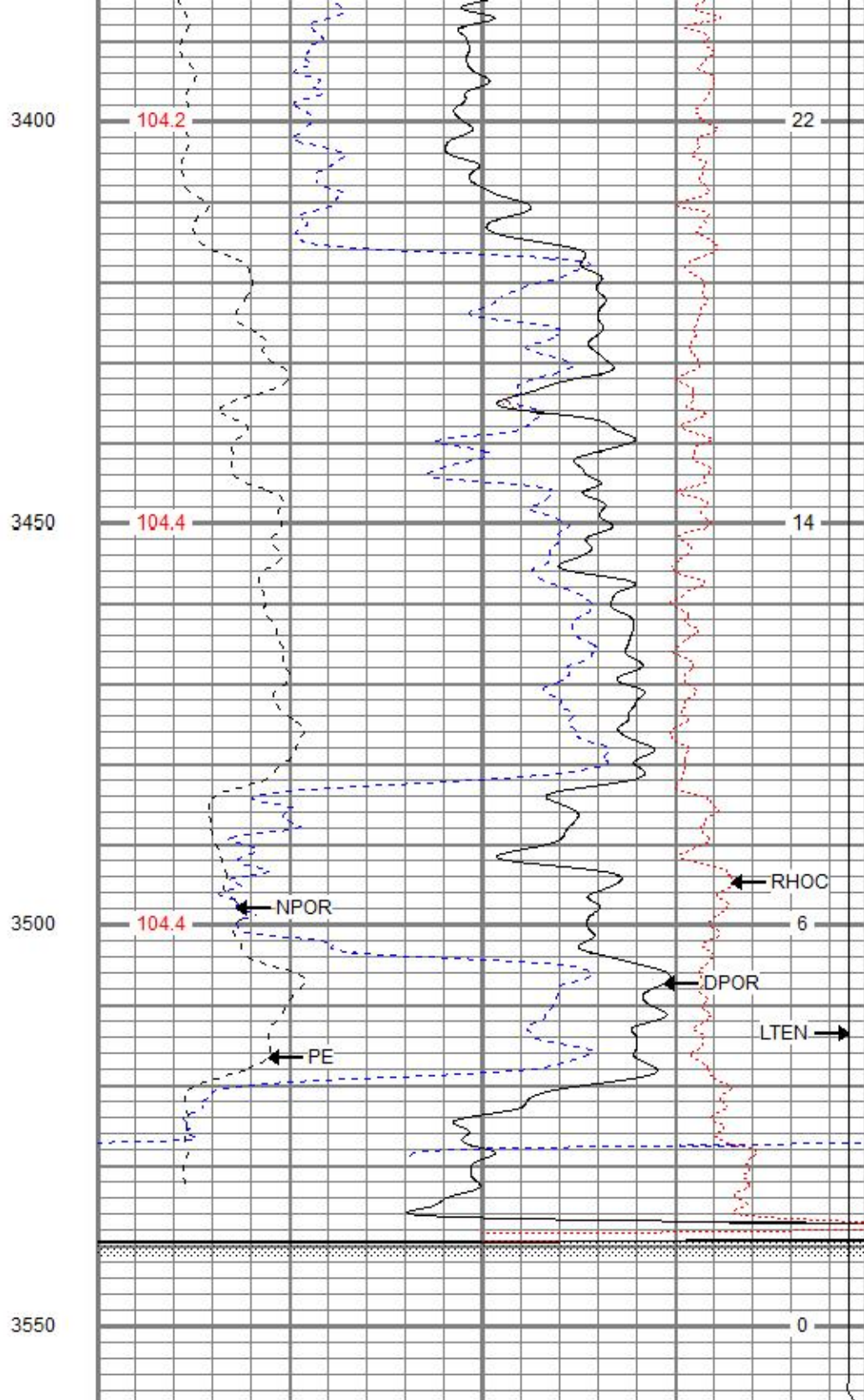
3150







0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (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
	RHOC (g/cc)	0.25
	LTEN (lb)	0
	ABHV (ft3)	

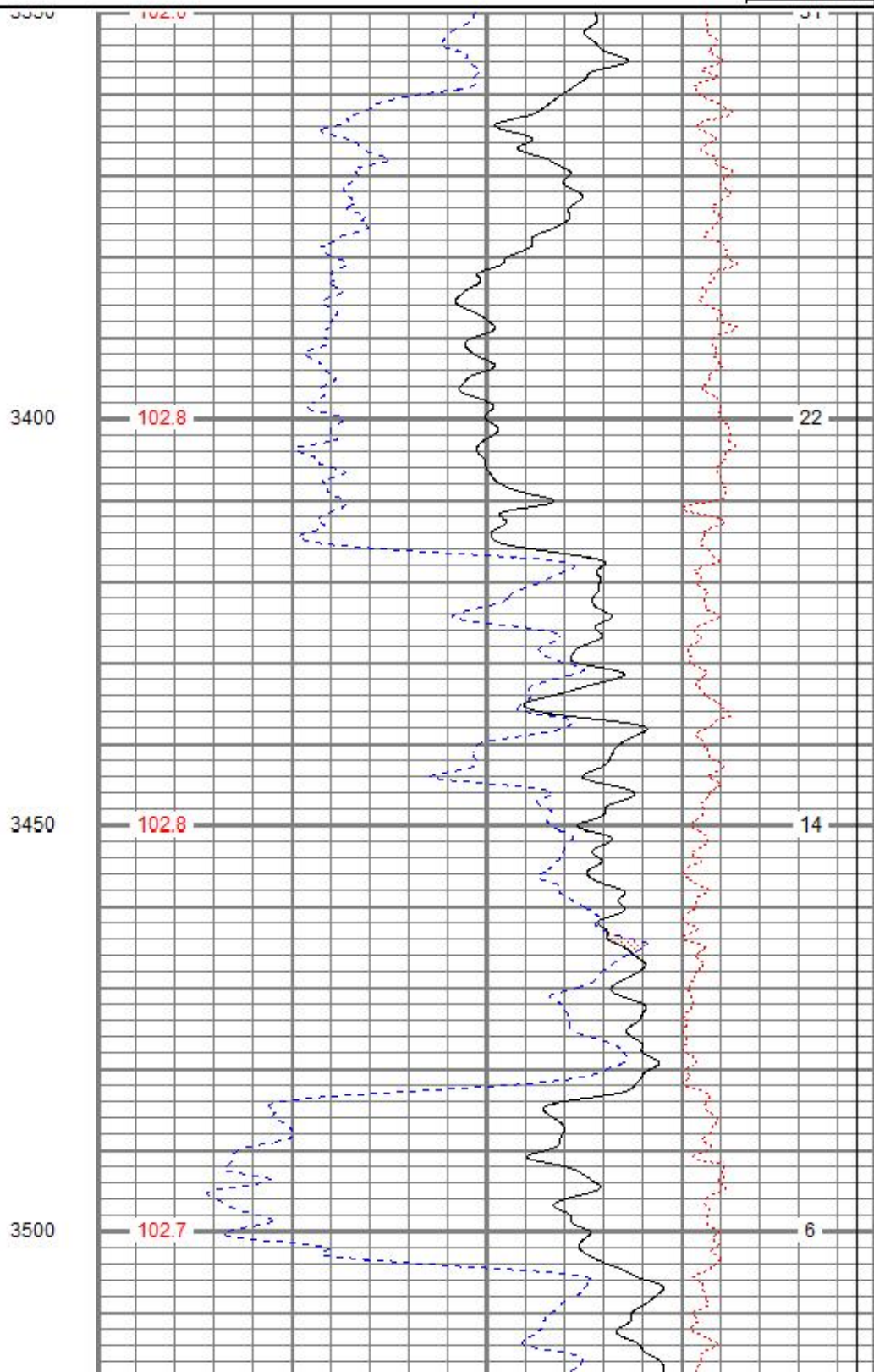
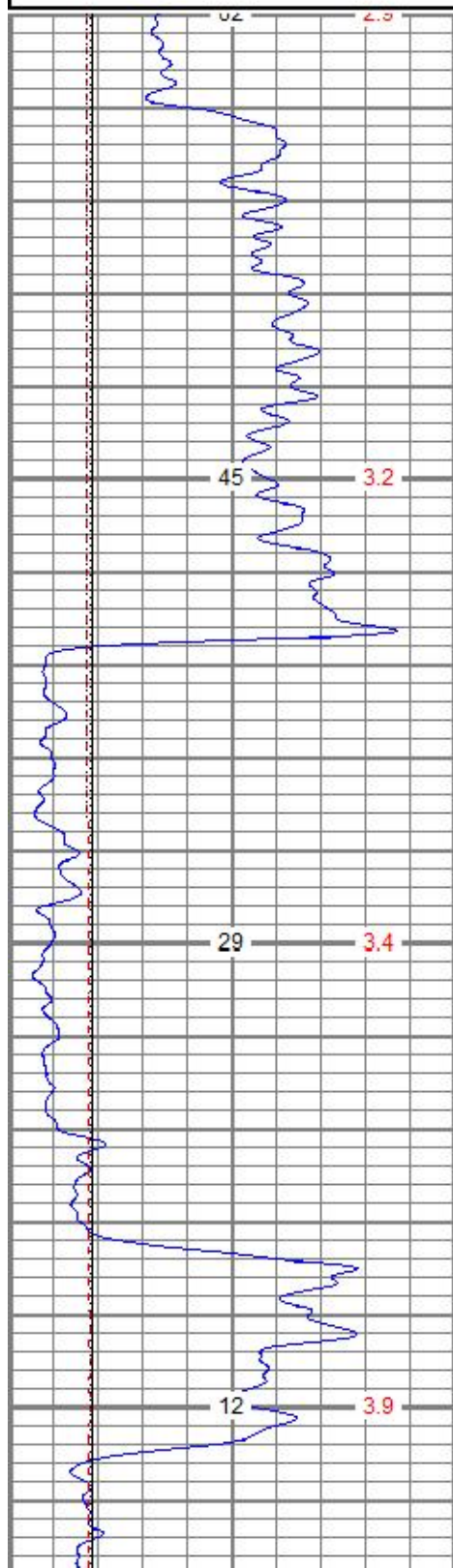


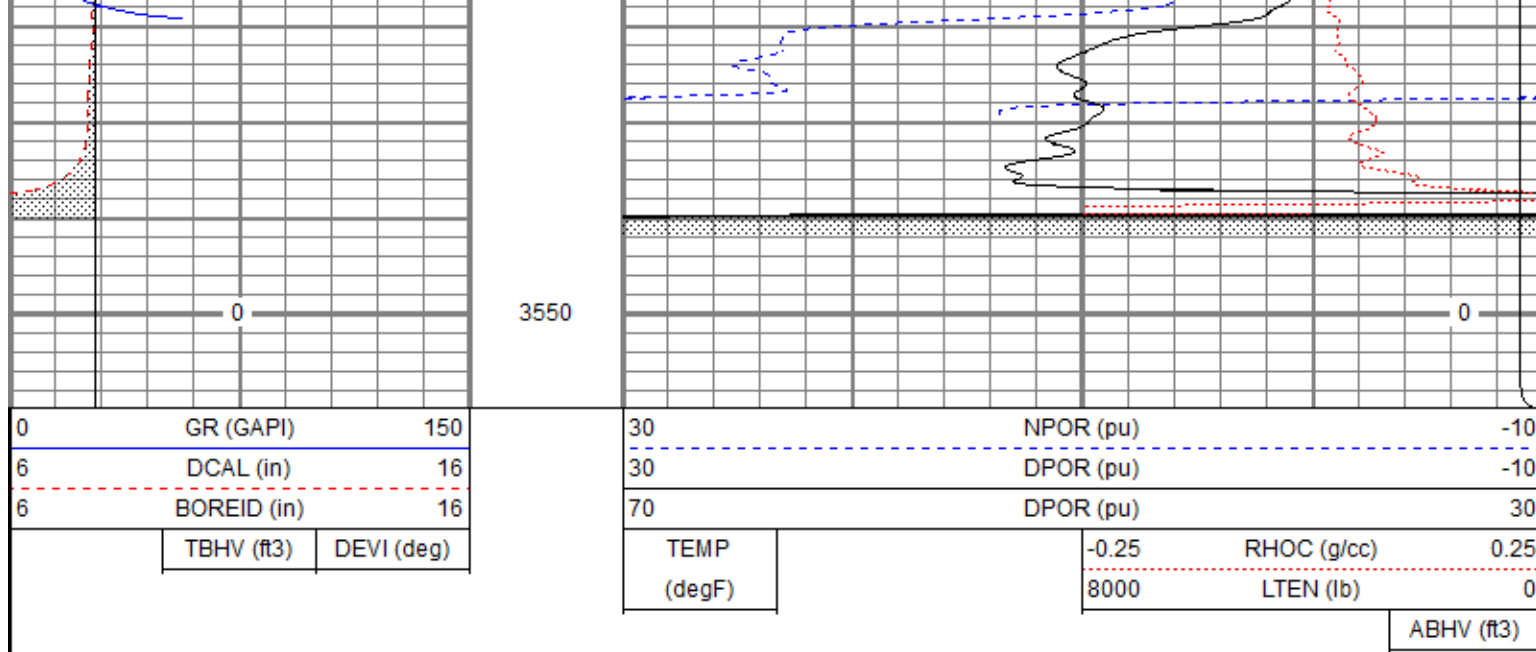
REPEAT SECTION

Database File trohawkins27-1oh.db
 Dataset Pathname pass1.1
 Presentation Format digital_kcdnl
 Dataset Creation Sun Apr 01 22:46:10 2018
 Charted by Depth in Feet scaled 1:240

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

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





Calibration Report									
Database File	trohawkins27-1oh.db								
Dataset Pathname	pass2.1								
Dataset Creation	Sun Apr 01 22:40:55 2018								
Dual Induction Calibration Report									
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	240.206	-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	

Neutron Calibration Report

Serial Number:	2017		
Tool Model:	lithogearhart		
Performed:	(Not Performed)		
Calibrator Value:	1	NAPI	
Calibrator Reading:	1	cps	
Sensitivity:	1	NAPI/cps	

Temperature Calibration Report

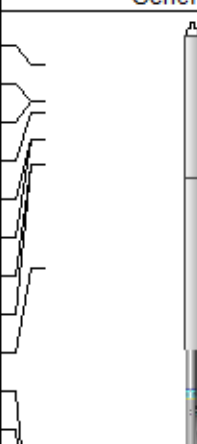
Serial Number:	WithOutMC			
Tool Model:	WOMC			
Performed:	(Not Performed)			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Inclinometer Calibration Report

Performed:	Wed Dec 06 22:31:06 2017				
	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

Gamma Ray Calibration Report

Serial Number:	WithOutMC		
Tool Model:	WOMC		
Performed:	Wed Dec 06 22:30:58 2017		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	1.0000	GAPI/cps	

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	38.31		CHD-STD	0.50	1.69	1.00
ACCY	37.15		ADT-WOMC (WithOutMC) Telemetry Without Mud Cell	4.58	3.50	120.00
ACCX	37.15					
SSTAT	36.73		NEU-lithogearhart (2017)	5.65	3.50	85.00
PSTAT	35.90					
ASTAT	35.90					
GRD	35.06					
TEMP	35.06					
NEU	31.70					
LStat	22.54					
LS8	21.88					

LS7	21.88		ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
LS6	21.88					
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					
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: trohawkins27-1oh.db: field/well/run1/pass2.1 Total length: 39.73 ft Total weight: 746.00 lb O.D.: 4.00 in				
RLL3	1.70					
TR_Mon	0.00					