LITHO DENSITY NEUTRON LOG

Company Scout Energy Partners
Well Mueller #1-6 ATU-353X
Field Hugoton-Panoma
County Stevens State KS

Company Scout Energy Partners
Well Mueller #1-6 ATU-353X
Field Hugoton-Panoma
County Stevens
State KS

Location: API # : 15-189-22869
SE/SE/SE/SE
222' FSL & 247' FEL
SEC 15 TWP 33S RGE 36W

Other Services
DIL
SON

Permanent Datum Ground Level Elevation 3029'
Log Measured From KB 5' AGL
Drilling Measured From KB

Elevation
K.B. 3034'
D.F. 3033'
G.L. 3029'

Date	9/4/22		
Run Number	One		
Depth Driller	3273'		
Depth Logger	3270'		
Bottom Logged Interval	3248'		
Top Log Interval	700'		
Casing Driller	8 5/8" @ 676'		
Casing Logger	676'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	8.8/44		
pH / Fluid Loss	9.5/8.4		
Source of Sample	Pit		
Rm @ Meas. Temp	1.85@70degf		
Rmf @ Meas. Temp	1.39@70degf		
Rmc @ Meas. Temp	2.22@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.33@97degf		
Time Circulation Stopped	11:00 P.M.		
Time Logger on Bottom	2:45 A.M		
Maximum Recorded Temperature	97degf		
Equipment Number	T605		
Location	Hays, KS		
Recorded By	Casey Patterson		
Witnessed By	Jordan Noret	Omar Peinado	

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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

Hugoton,KS Hwy 51 East 8 mi to Rd20 .,
250 feet North on Rd 20, West Into Location

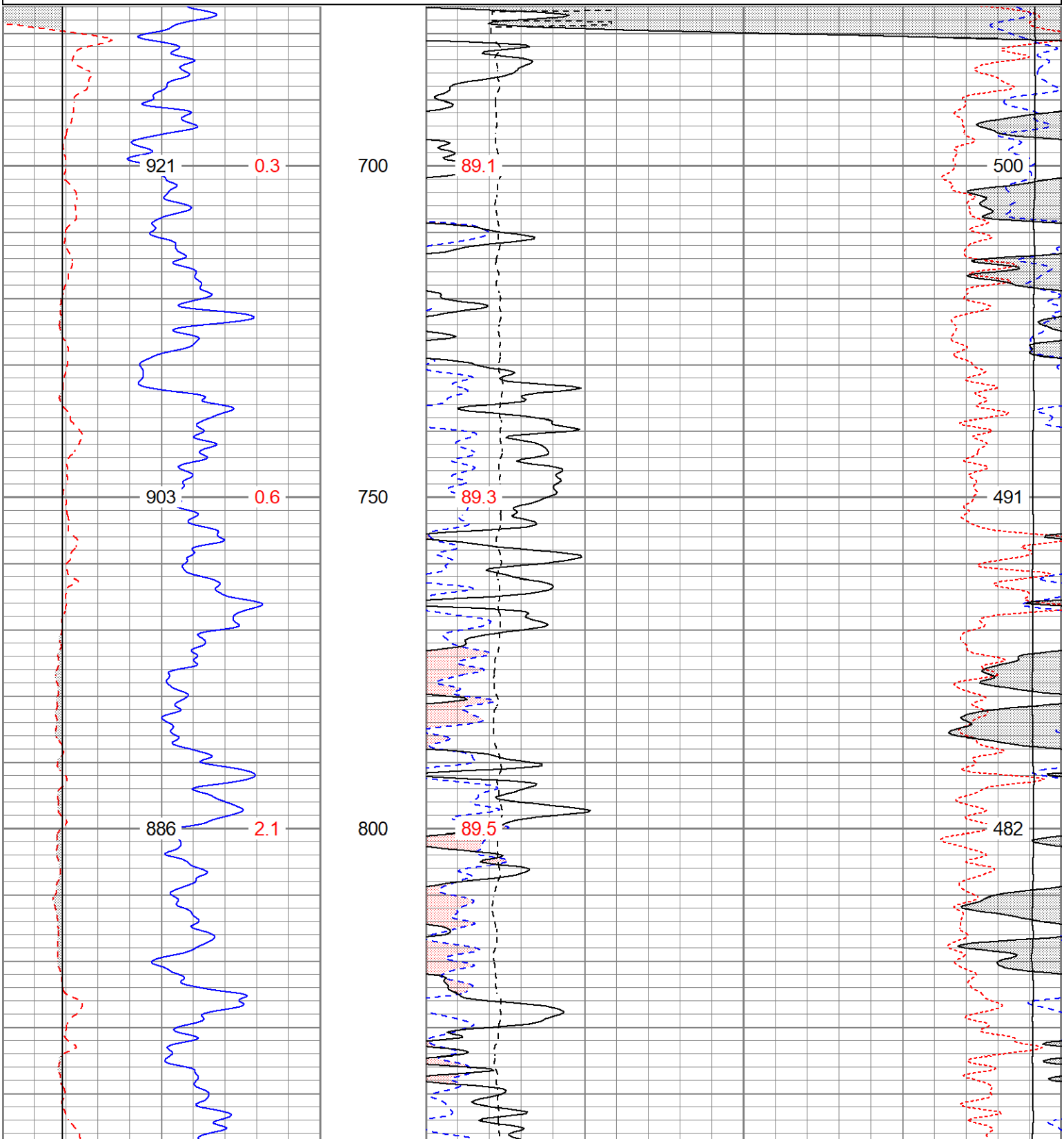
Thank You for using Gemini Wireline LLC
785-625-1182

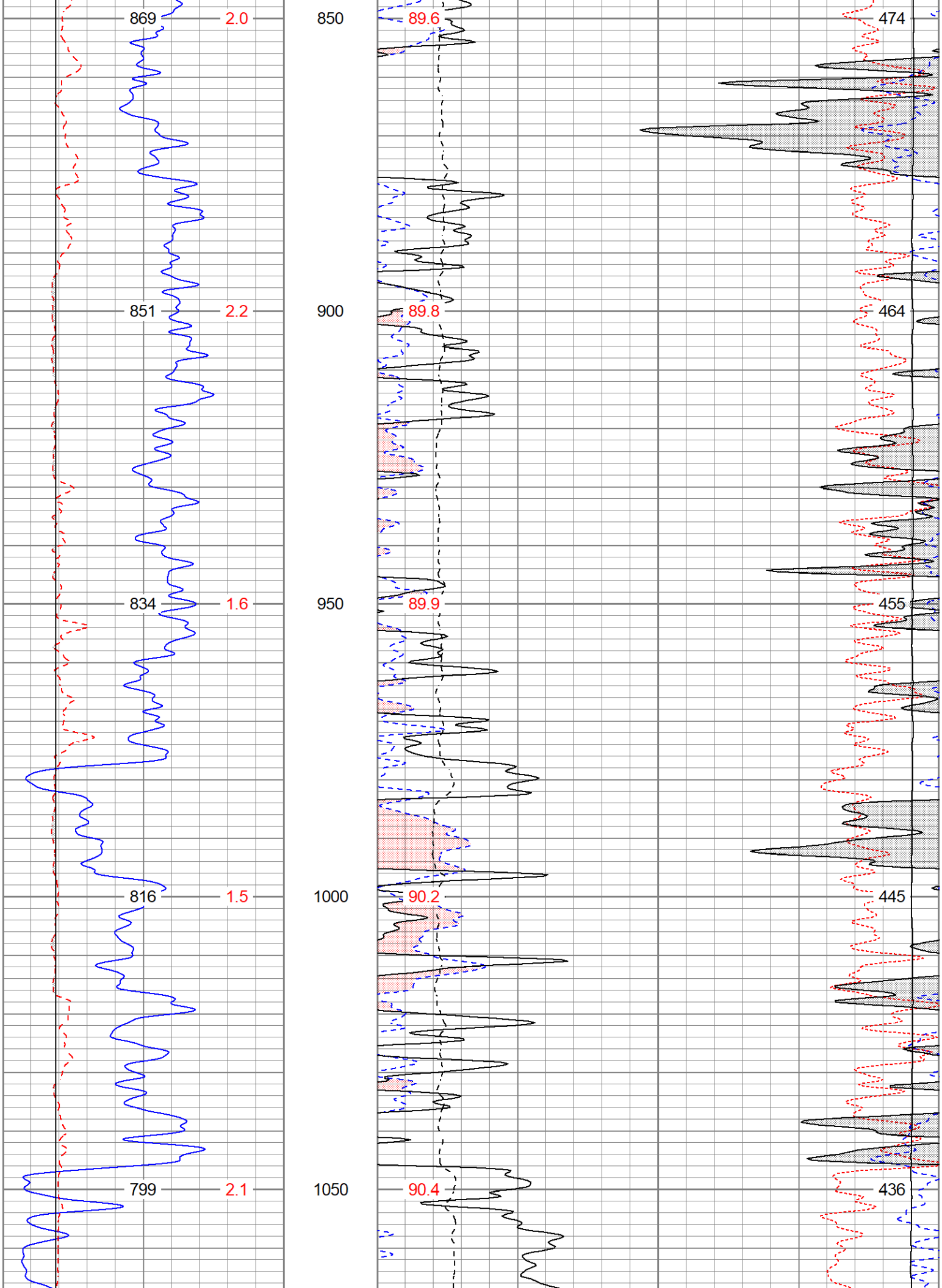
MAIN PASS

Database File	semueller#1-6-atu-353xoh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Sun Sep 04 04:18:20 2022
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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2.0
850
89.6
474
851
2.2
900
89.8
464
834
1.6
950
89.9
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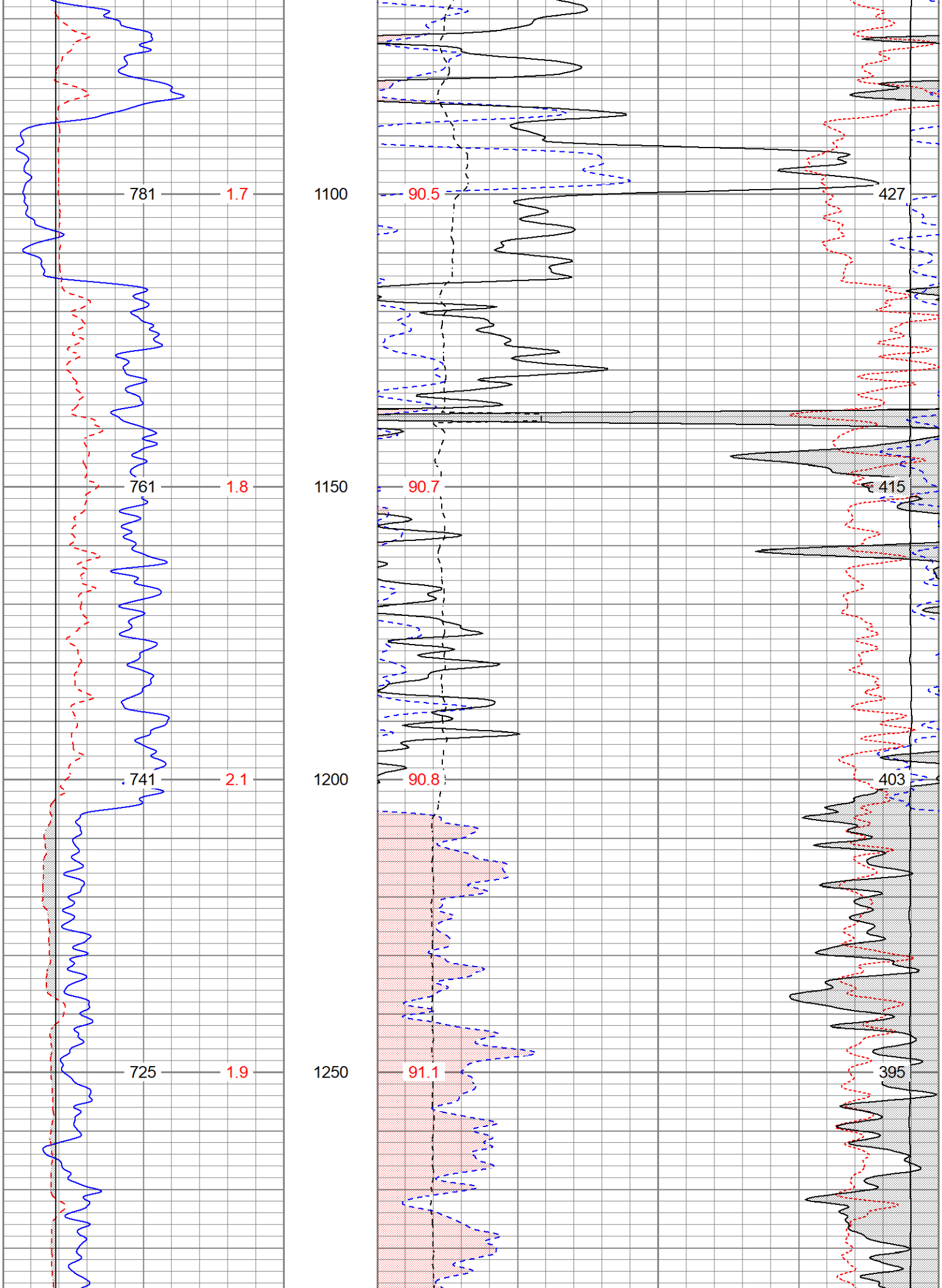
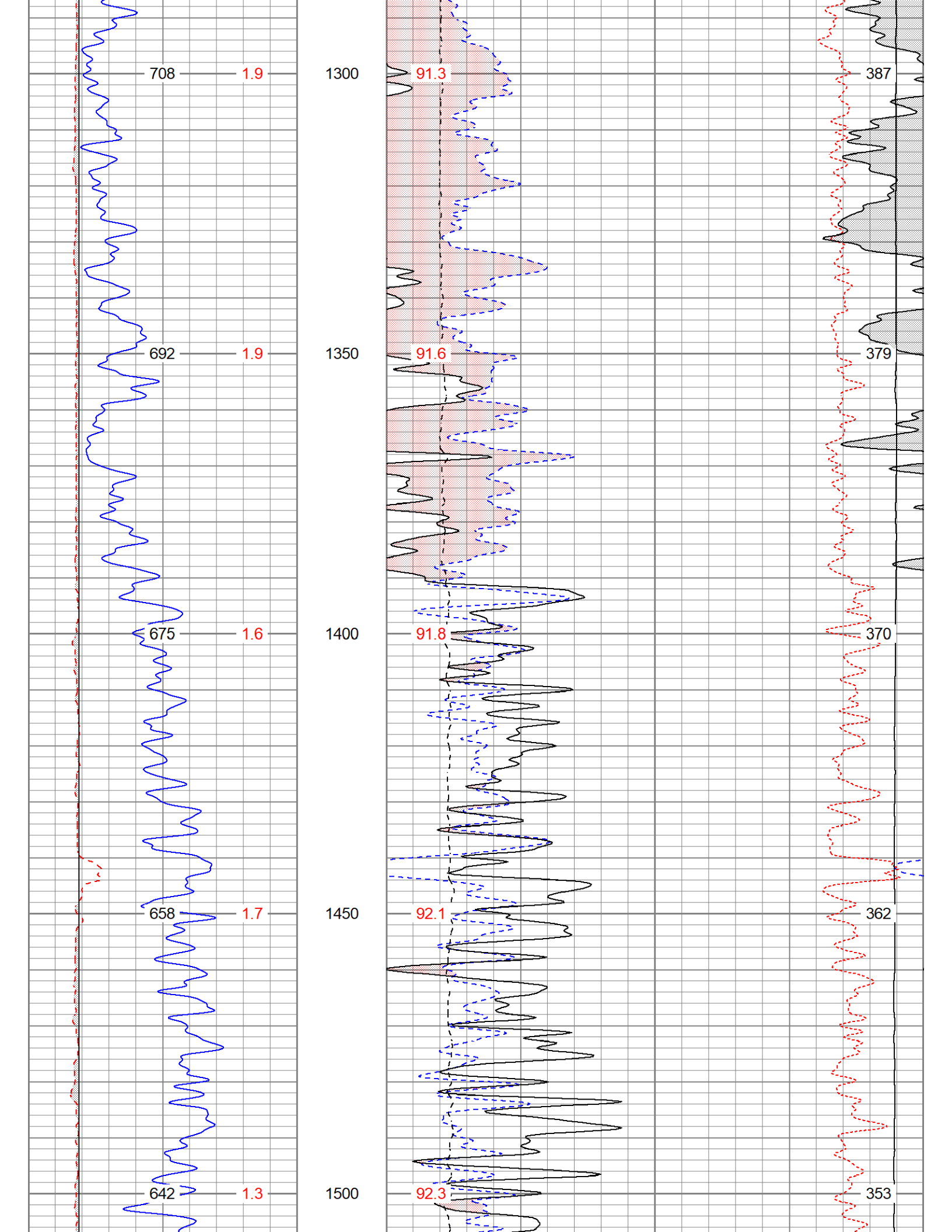
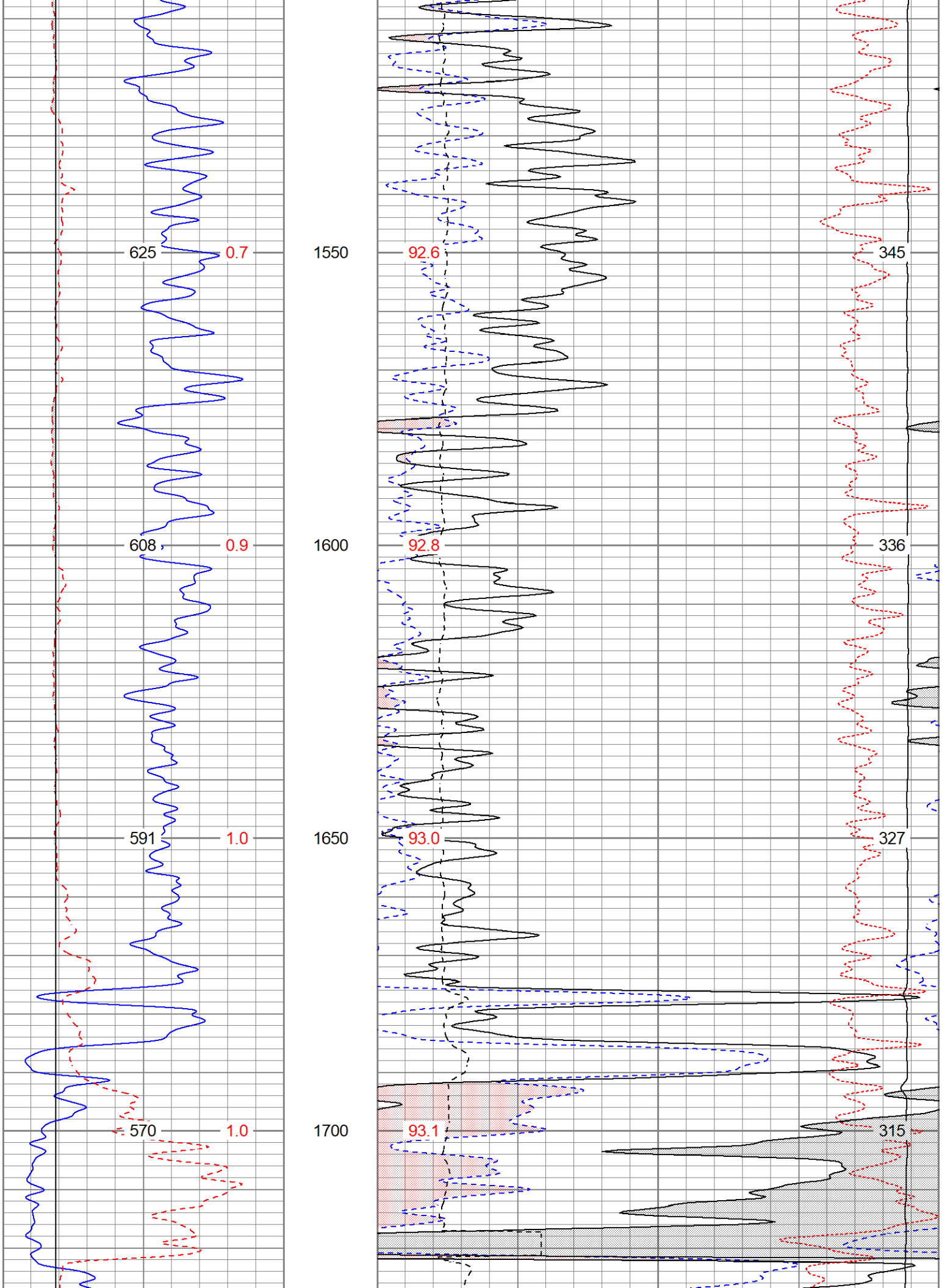
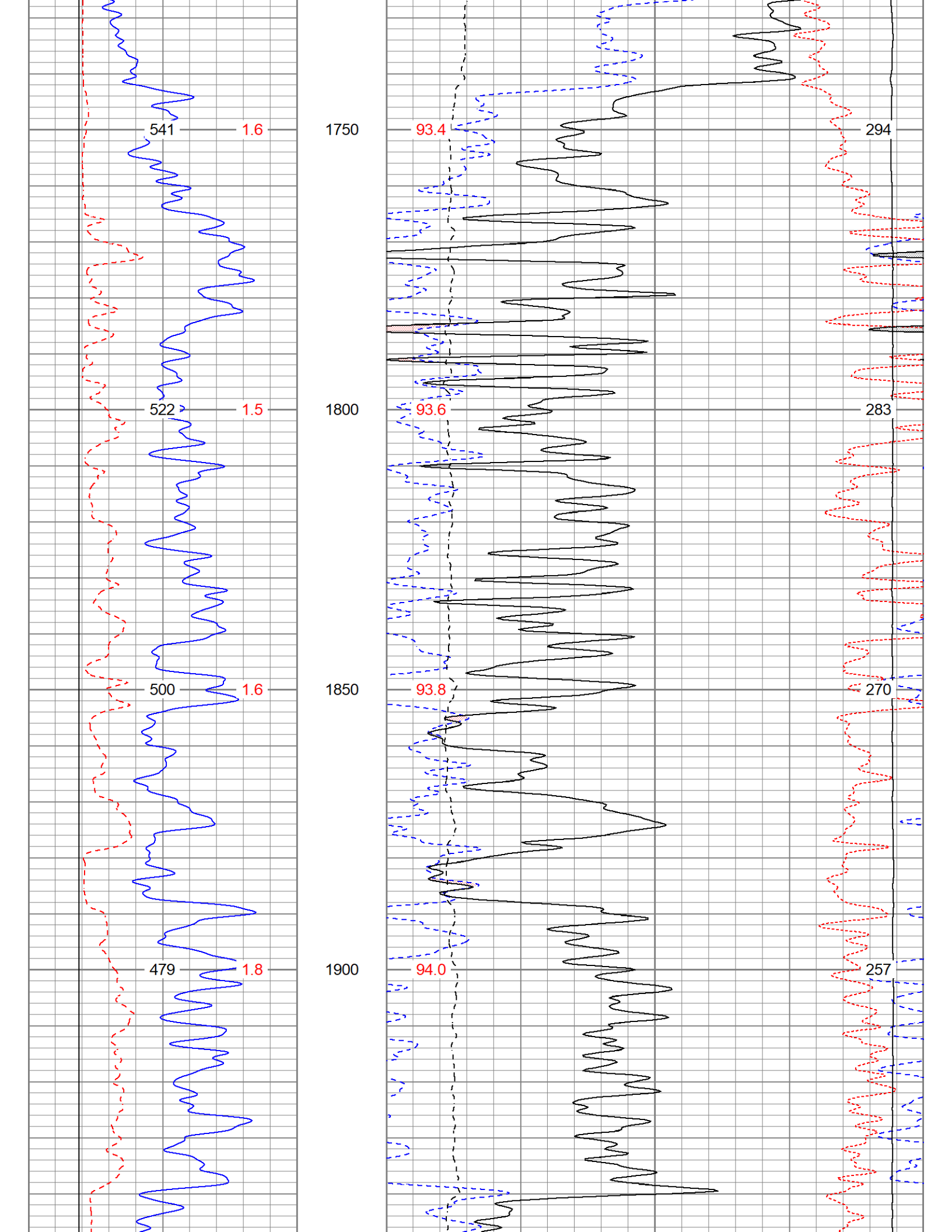
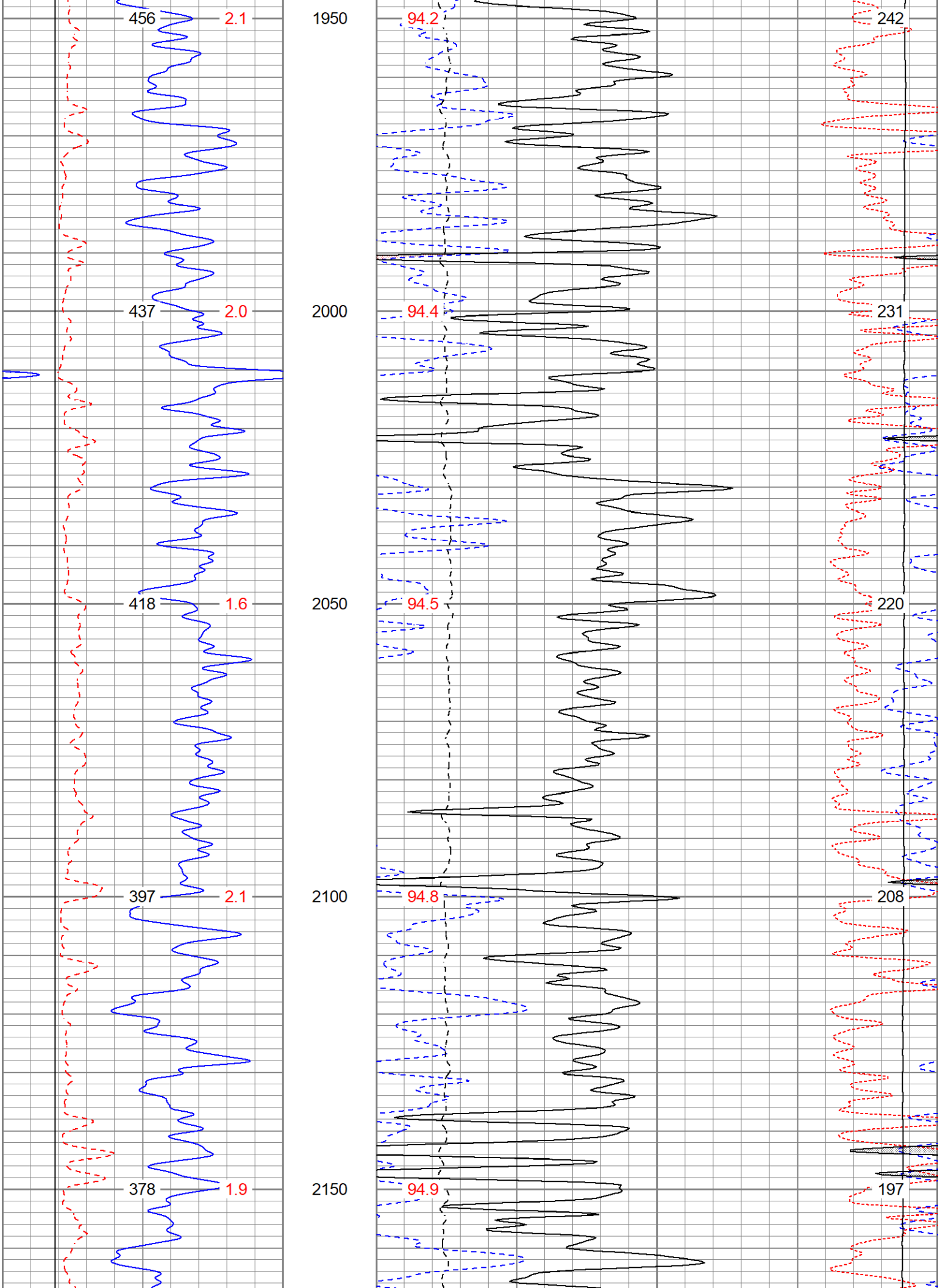
90.2
445
799
2.1
1050
90.4
436


781
1.7
1100
90.5
427
761
1.8
1150
90.7
415
741
2.1
1200
90.8
403
725
1.9
1250
91.1
395


708
1.9
1300
91.3
387
692
1.9
1350
91.6
379
675
1.6
1400
91.8
370
658
1.7
1450
92.1
362
642
1.3
1500
92.3
353


625
0.7
1550
92.6
345
608
0.9
1600
92.8
336
591
1.0
1650
93.0
327
570
1.0
1700
93.1
315


541
1.6
1750
93.4
294
522
1.5
1800
93.6
283
500
1.6
1850
93.8
270
479
1.8
1900
94.0
257


456
2.1
1950
94.2
242
437
2.0
2000
94.4
231
418
1.6
2050
94.5
220
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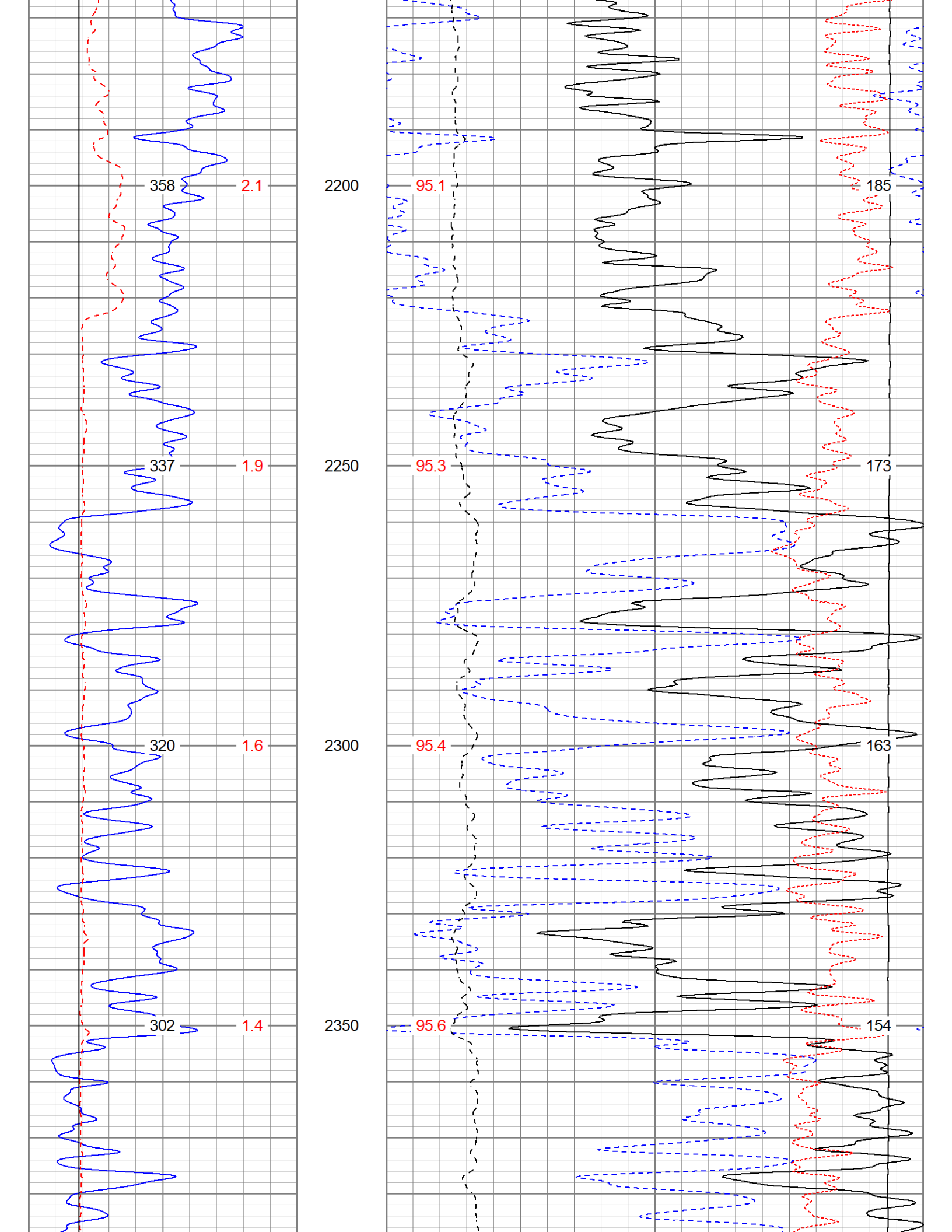
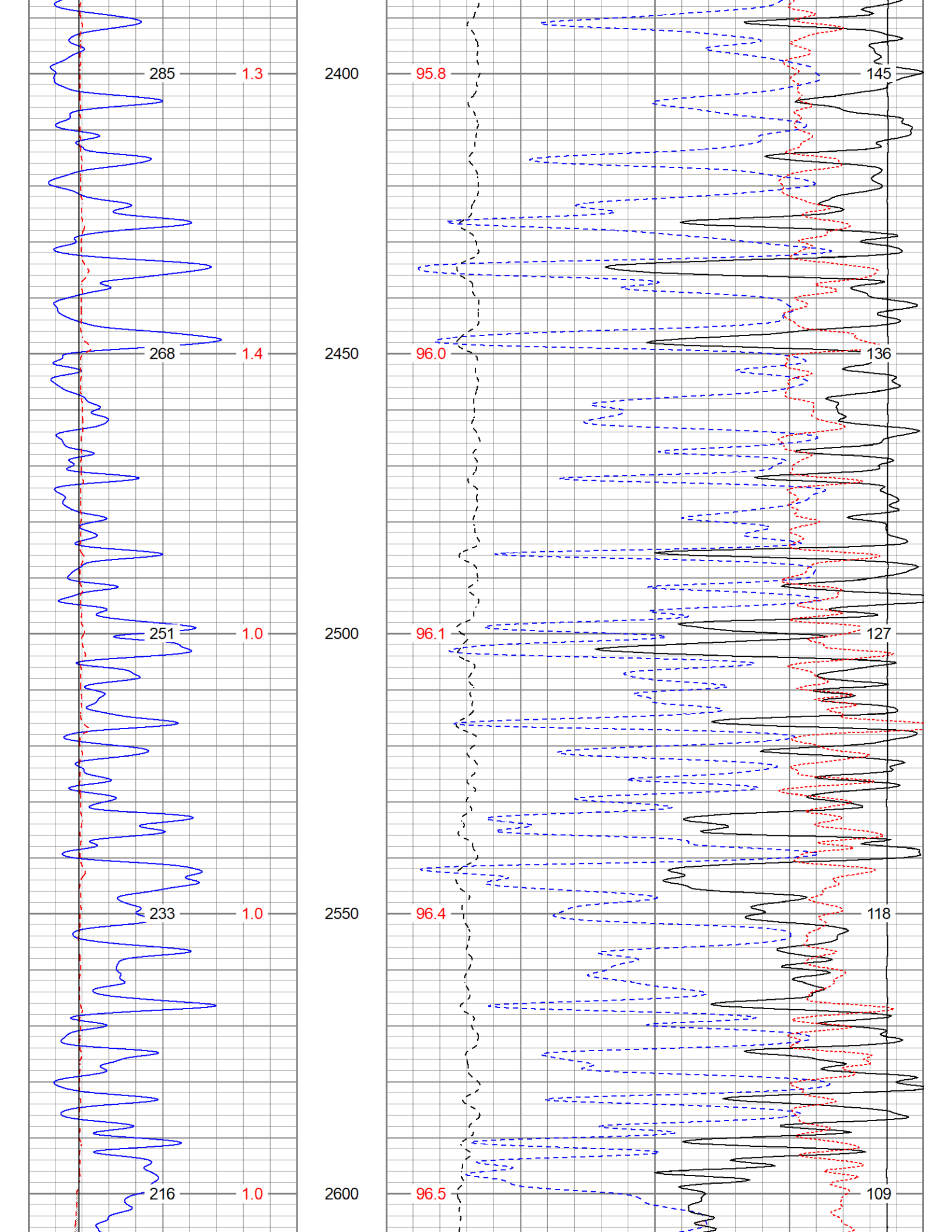
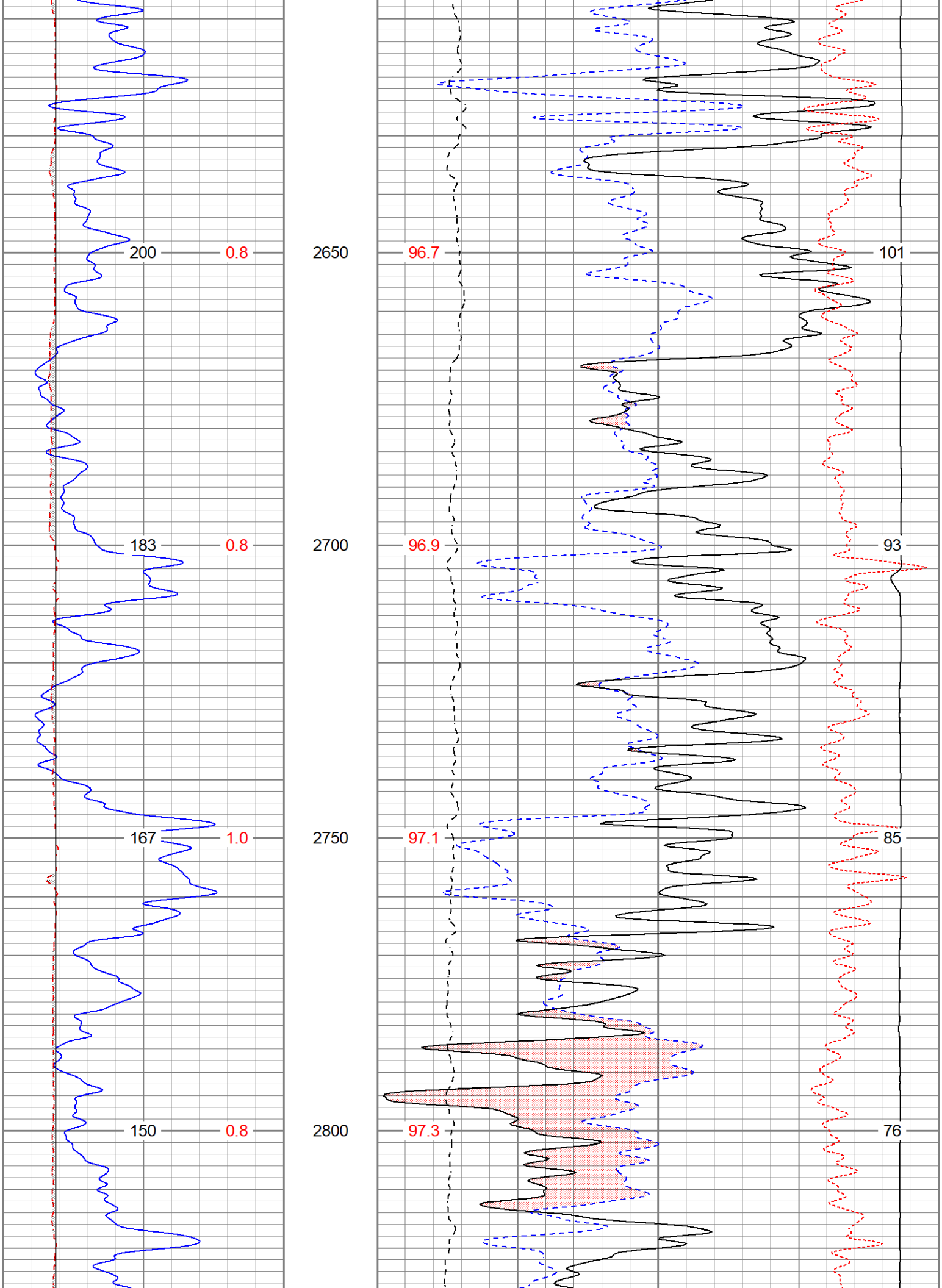
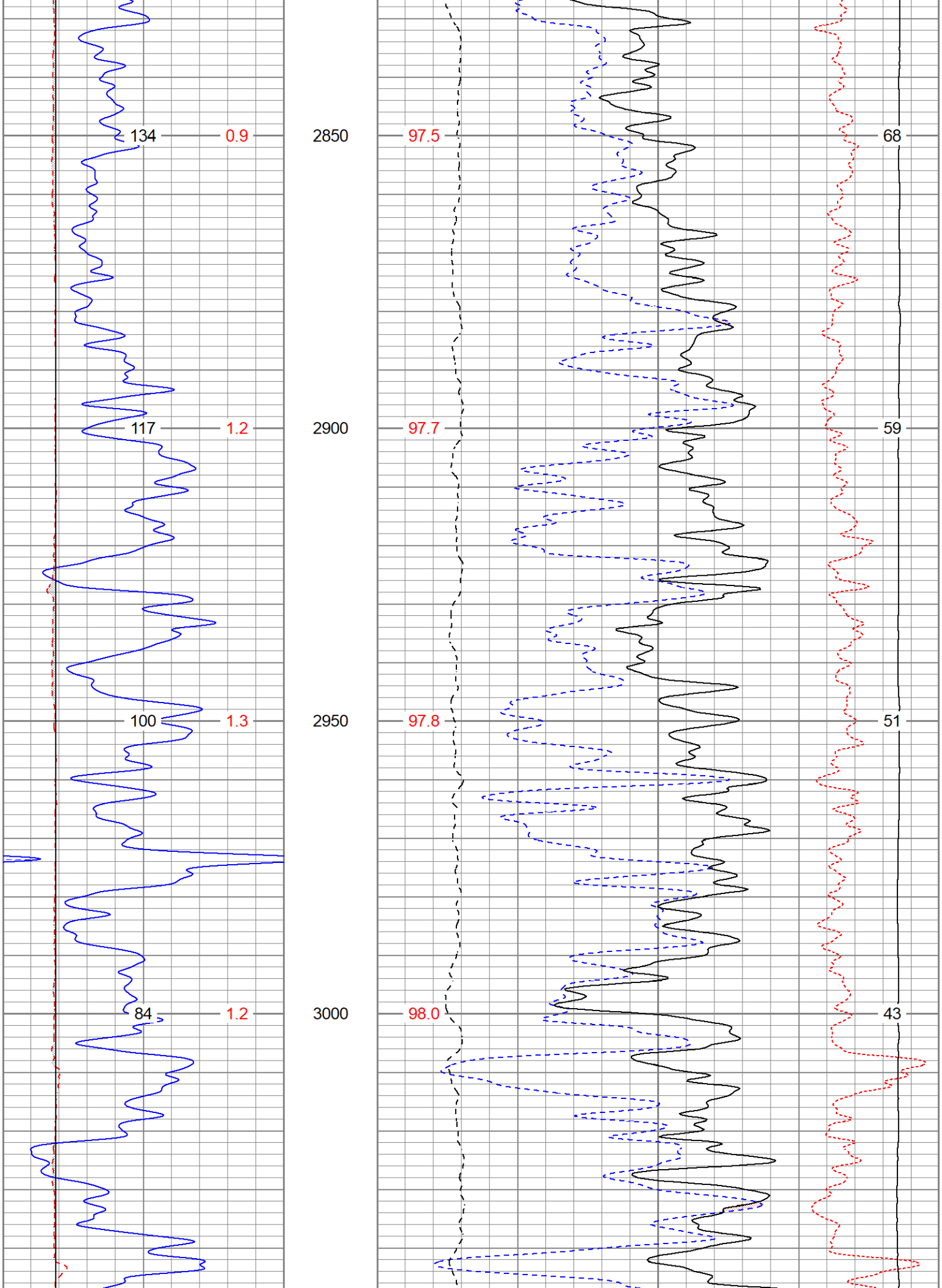
94.8
208
378
1.9
2150
94.9
197


358
2.1
2200
95.1
185
337
1.9
2250
95.3
173
320
1.6
2300
95.4
163
302
1.4
2350
95.6
154


285
1.3
2400
95.8
145
268
1.4
2450
96.0
136
251
1.0
2500
96.1
127
233
1.0
2550
96.4
118
216
1.0
2600
96.5
109


200
0.8
2650
96.7
101
183
0.8
2700
96.9
93
167
1.0
2750
97.1
85
150
0.8
2800
97.3
76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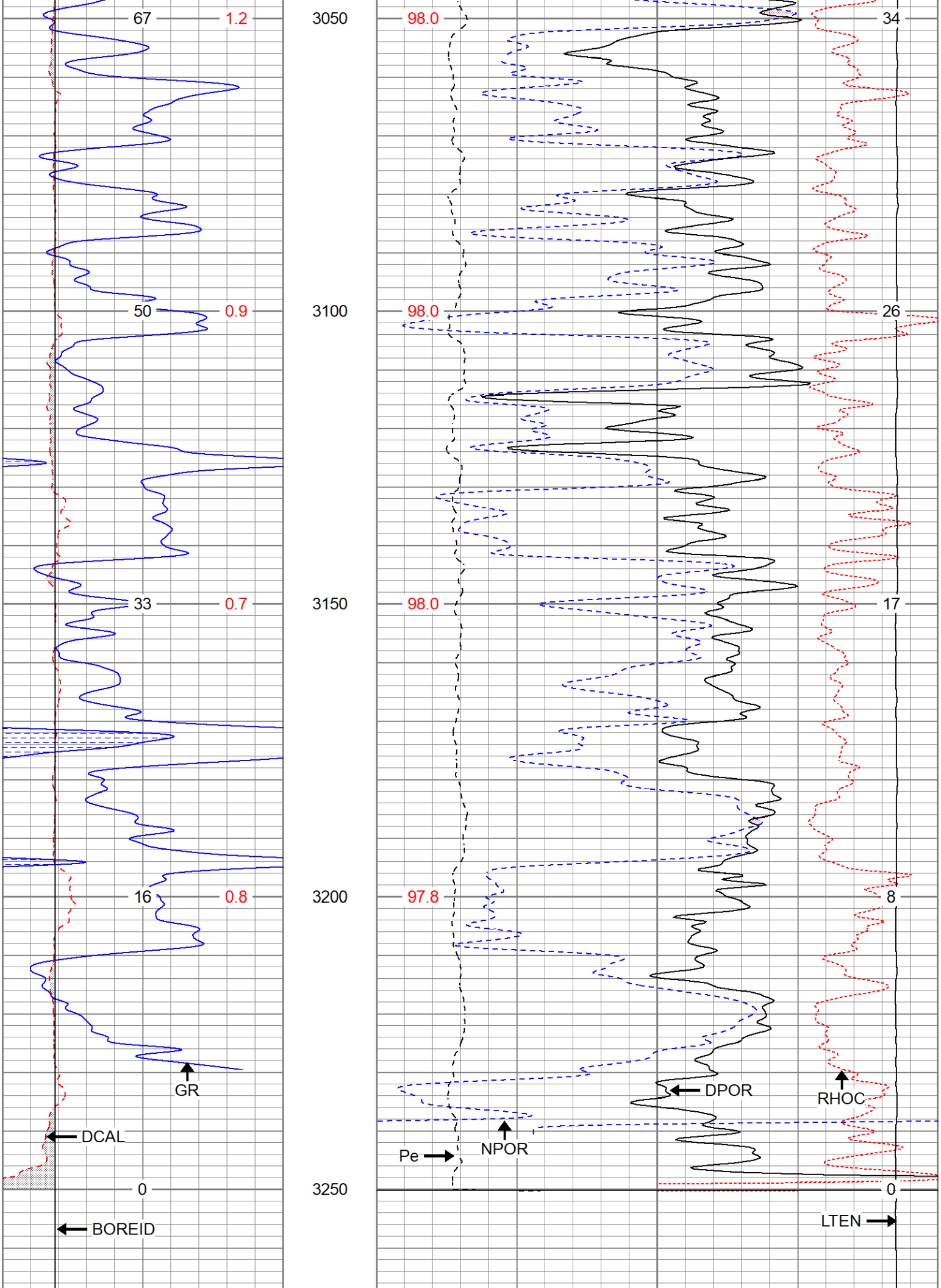
2850
97.5
68
117
1.2
2900
97.7
59
100
1.3
2950
97.8
51
84
1.2
3000
98.0
43


67
1.2
50
0.9
33
0.7
16
0.8
0
3050
3100
3150
3200
3250
98.0
98.0
98.0
97.8
34
26
17
8
0
GR
DCAL
BOREID
Pe
NPOR
DPOR
RHOC
LTEN

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

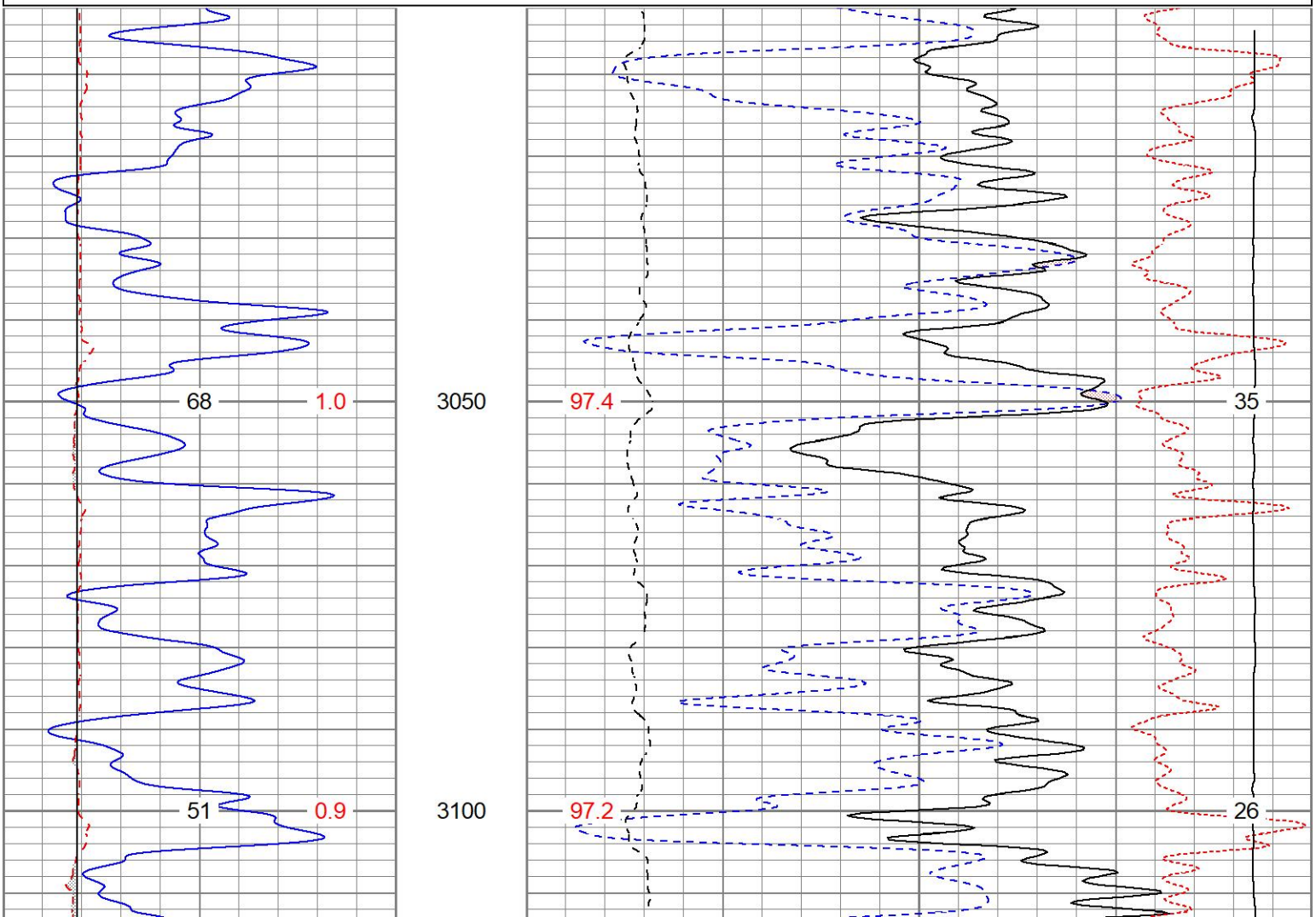
30	NPOR (pu)	-10
30	DPOR (pu)	-10
70	DPOR (pu)	30
0	Pe (barn) 10	-0.25 RHOC (g/cc) 0.25
TEMP (degF)		8000 LTEN (lb) 0
		ABHV (ft3)

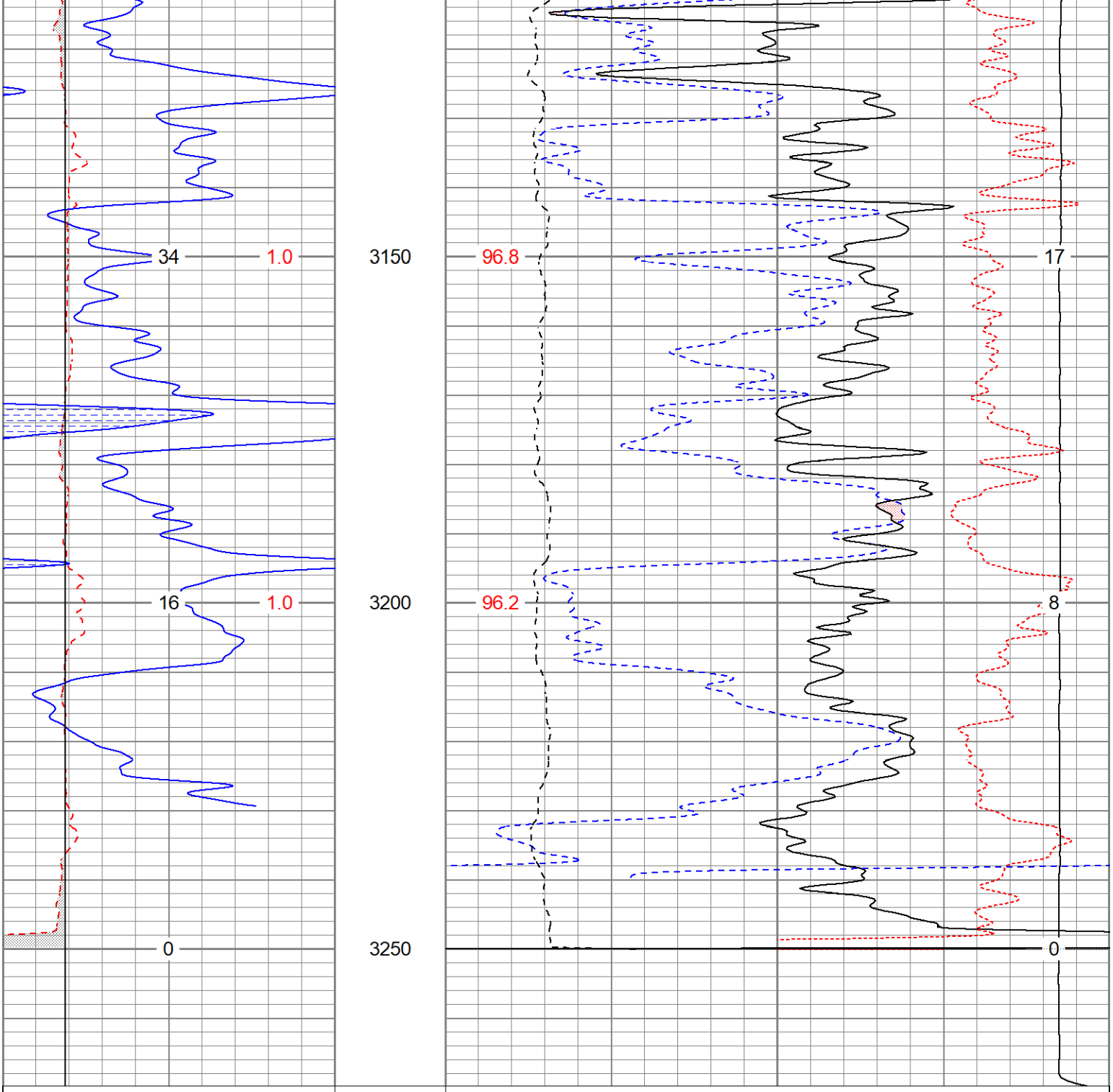
REPEAT SECTION

Database File	semueller#1-6-atu-353xoh.db
Dataset Pathname	pass1.1
Presentation Format	digital_kcdnl
Dataset Creation	Sun Sep 04 03:34:58 2022
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)





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
8000	LTEN (lb)	0
TEMP (degF)		ABHV (ft3)

Calibration Report

Database File	semueller#1-6-atu-353xoh.db
Dataset Pathname	pass2.1
Dataset Creation	Sun Sep 04 04:18:20 2022

Dual Induction Calibration Report

Serial-Model:	1842-ADM

Surface Cal Performed: Mon Sep 20 22:00:42 2021
Downhole Cal Performed: Mon Sep 20 22:00:24 2021
After Survey Verification Performed: Mon Sep 20 22:05:52 2021

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	-0.219	349.905	mmho/m	-0.343	349.810	mmho/m	1.000	-3.124
Medium	-0.118	399.722	mmho/m	-0.226	399.745	mmho/m	1.000	-3.108
Shallow	2.536	0.025	V	500.000	2.000	Ohm-m	150.330	-7.504

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.219	349.905	mmho/m	1.000	-3.124
Medium	0.000	0.000	mmho/m	-0.118	399.722	mmho/m	1.000	-3.108
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Admyr Lithodensity Calibration Report

Serial-Model: 1C-C
Source: Blue2
Master Calibration Performed: Tue Aug 30 10:20:37 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6362.49	3546.71	cps
Aluminium	2.640	g/cc	1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc	1657.01	2197.69	cps

Spine Angle = 72.65 Density/Spine Ratio = 0.712

	PE		NLITH	NHARD	
Magnesium	1.900	barn	5031.16	2670.10	cps
Aluminium	2.400	barn	925.14	1260.20	cps
Aluminium+Sleeve	5.000	barn	816.33	1216.63	cps

M = 0.191 B = 0.171 R = 0.787

	Size		Reading	
Small Ring	8.00	in	8.61	V
Large Ring	14.30	in	12.40	V

Neutron Calibration Report

Neutron Calibration Report

Serial Number:	AD5139	
Tool Model:	ADMY5139	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithMC			
Tool Model:	WMC			
Performed:	Fri Apr 19 12:15:04 2019			
	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			

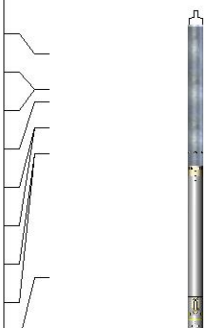
Inclinometer Calibration Report

Performed: Wed May 5 19:20:48 2021

	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:	WithMC	
Tool Model:	WMC	
Performed:	Wed Jun 15 11:53:49 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	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					
ACCX	37.15		ADT-WMC (WithMC) Admyr Telemetry With Mudcell	4.58	3.50	120.00
SSTAT	36.73					
PSTAT	35.90					
ASTAT	35.90		NEU-ADMY5139 (AD5139) Admyer NEU DIGITAL	5.65	3.50	50.00
GRD	35.06					
TEMP	35.06					

NEU	31.03				
LSTAT	21.88				
LS_HV	21.86				
LS8	21.86				
LS7	21.86	ADT1LITH-C (1C) Real Time Litho Tool	9.29	3.50	240.00
LS6	21.86				
LS5	21.86				
NHARD	21.86				
LSD	21.86				
LS2	21.86				
NLITH	21.86				
LSV	21.61				
DCAL	21.61				
SS_HV	21.27				
SSV	21.27				
SS8	21.27	DIL-ADM (1842) Dual Induction	19.71	4.00	300.00
SS7	21.27				
SS6	21.27				
SS5	21.27				
SS4	21.27				
SSD	21.27				
SS2	21.27				
SS1	21.27				
SP	10.60				
CILD	10.60				
CILM	6.89				
RLL3	1.70				
TR_Mon	0.00				

Dataset:	semueller#1-6-atu-353xoh.db: field/well/run1/pass2.1
Total length:	39.73 ft
Total weight:	711.00 lb
O.D.:	4.00 in