COMPENSATED DENSITY NEUTRON LOG

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt State KS

Location: API # : 15 151 22456

1700' FNL & 1700' FEL

SEC 7 TWP 26S RGE 13W

Other Services
ML
DIL

Elevation
K.B. 1970'
D.F. 1969'
G.L. 1960'

Permanent Datum Ground Level Elevation 1960'
Log Measured From KB 10' AGL
Drilling Measured From KB

Company Royal Energy, Inc.
Well Young #1
Field Frisbie
County Pratt
State KS

Date	1-12-17		
Run Number	One		
Depth Driller	4400'		
Depth Logger	4400'		
Bottom Logged Interval	4387'		
Top Log Interval	3200'		
Casing Driller	309'		
Casing Logger	309'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	9.3/55		
pH / Fluid Loss	9.4/12.8		
Source of Sample	Pit		
Rm @ Meas. Temp	.9@52degf		
Rmf @ Meas. Temp	.67@52degf		
Rmc @ Meas. Temp	1.1@52degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.4@116degf		
Time Circulation Stopped	3:15 p.m.		
Time Logger on Bottom	6:00 p.m.		
Maximum Recorded Temperature	116 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Eli Felts	Mr. Jeff Burk	

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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

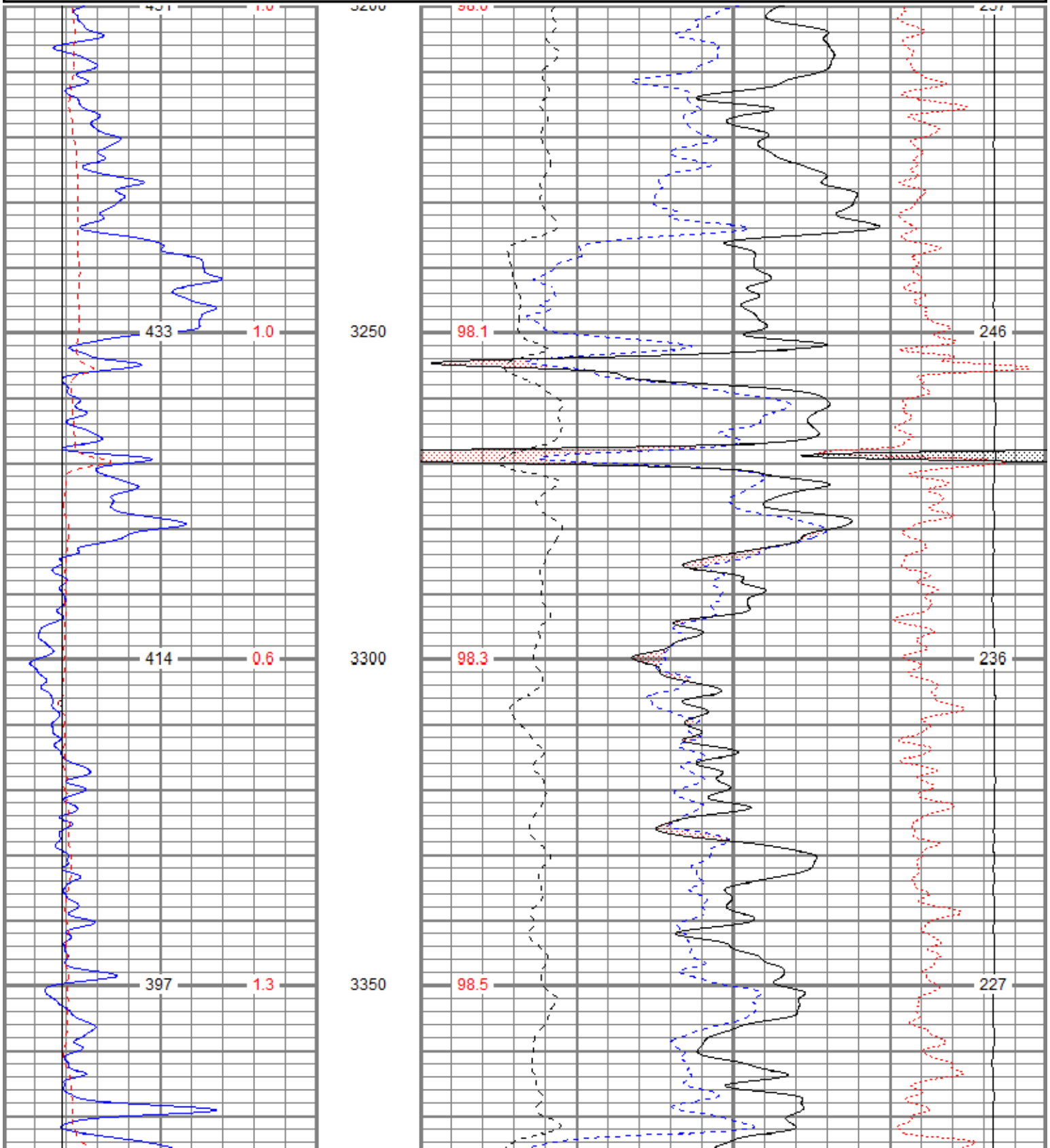
Thank you for using Gemini Wireline
785-625-1182

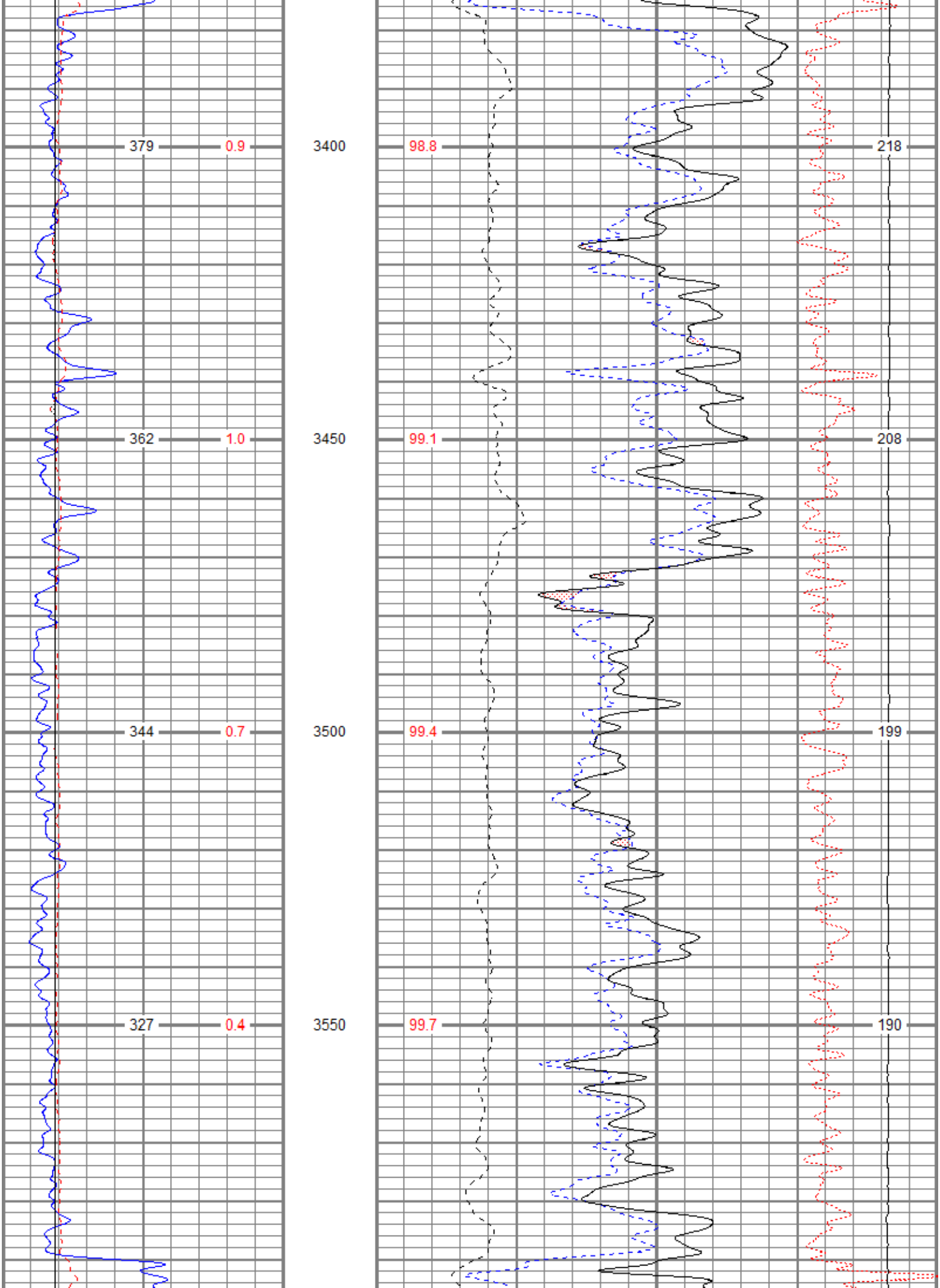
Main Pass

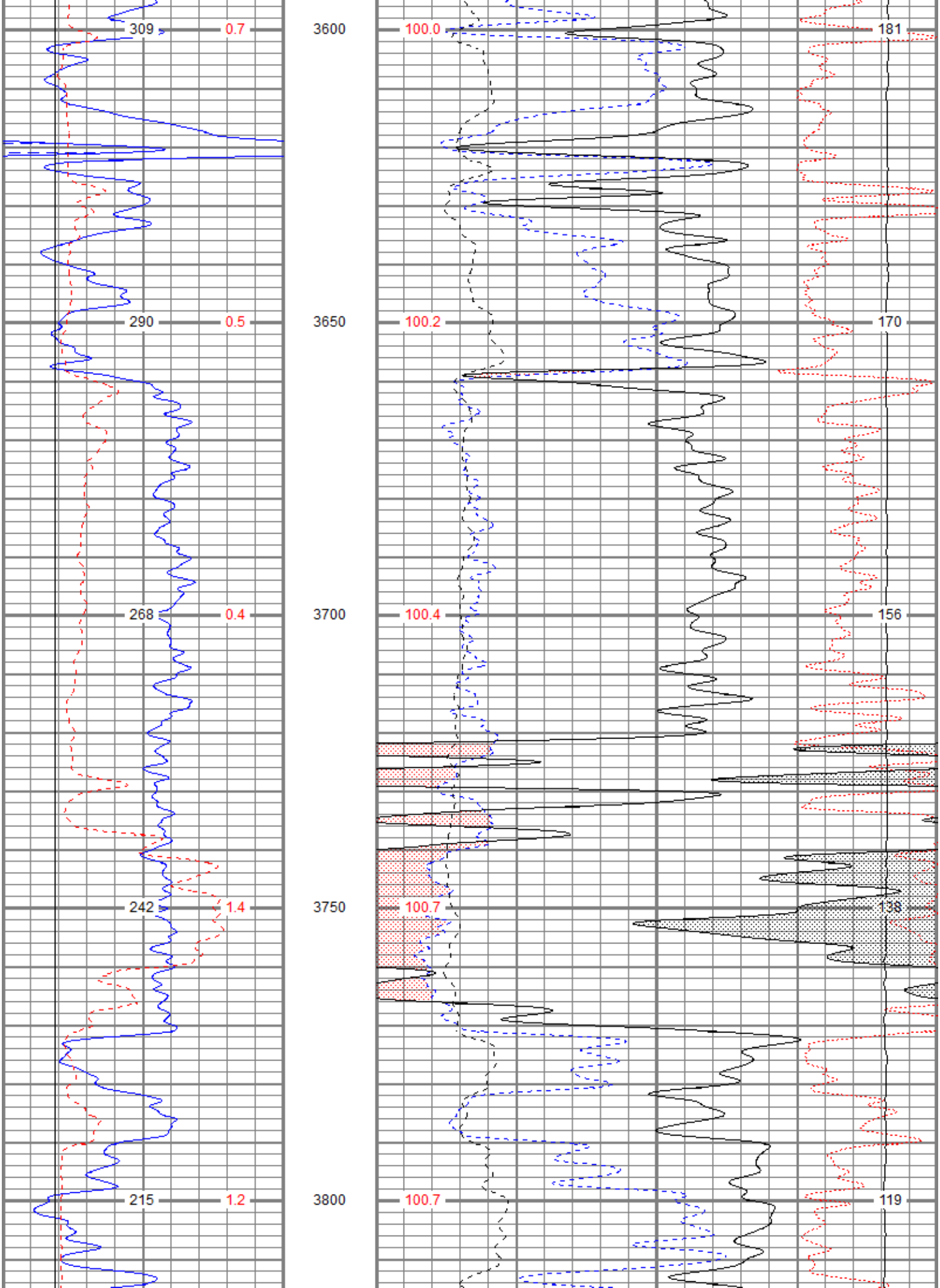
Database File	reyoung#1oh.db
Dataset Pathname	pass2
Presentation Format	digital_kcdnl
Dataset Creation	Thu Jan 12 18:04:30 2017
Charted by	Depth in Feet scaled 1:240

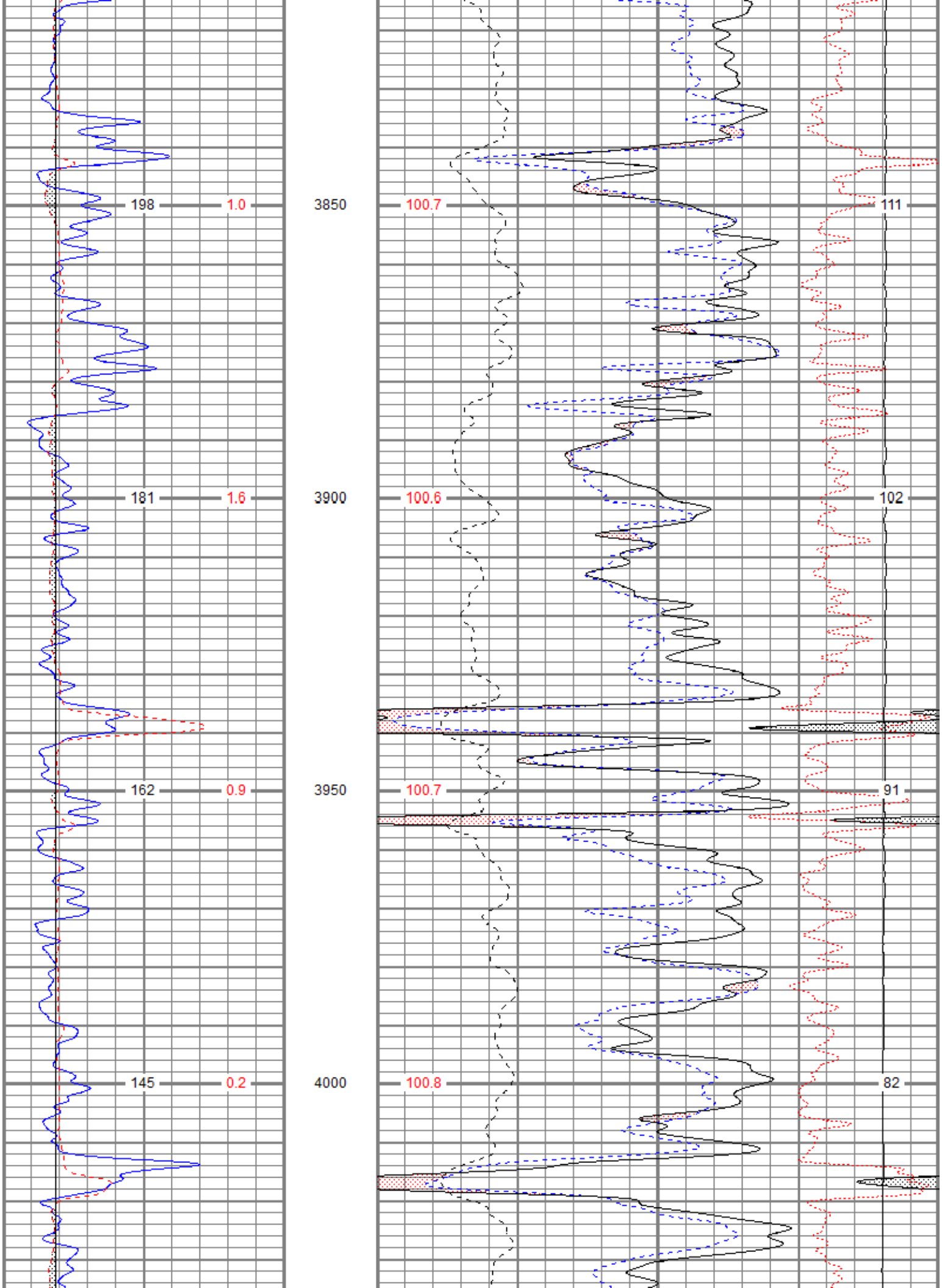
0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

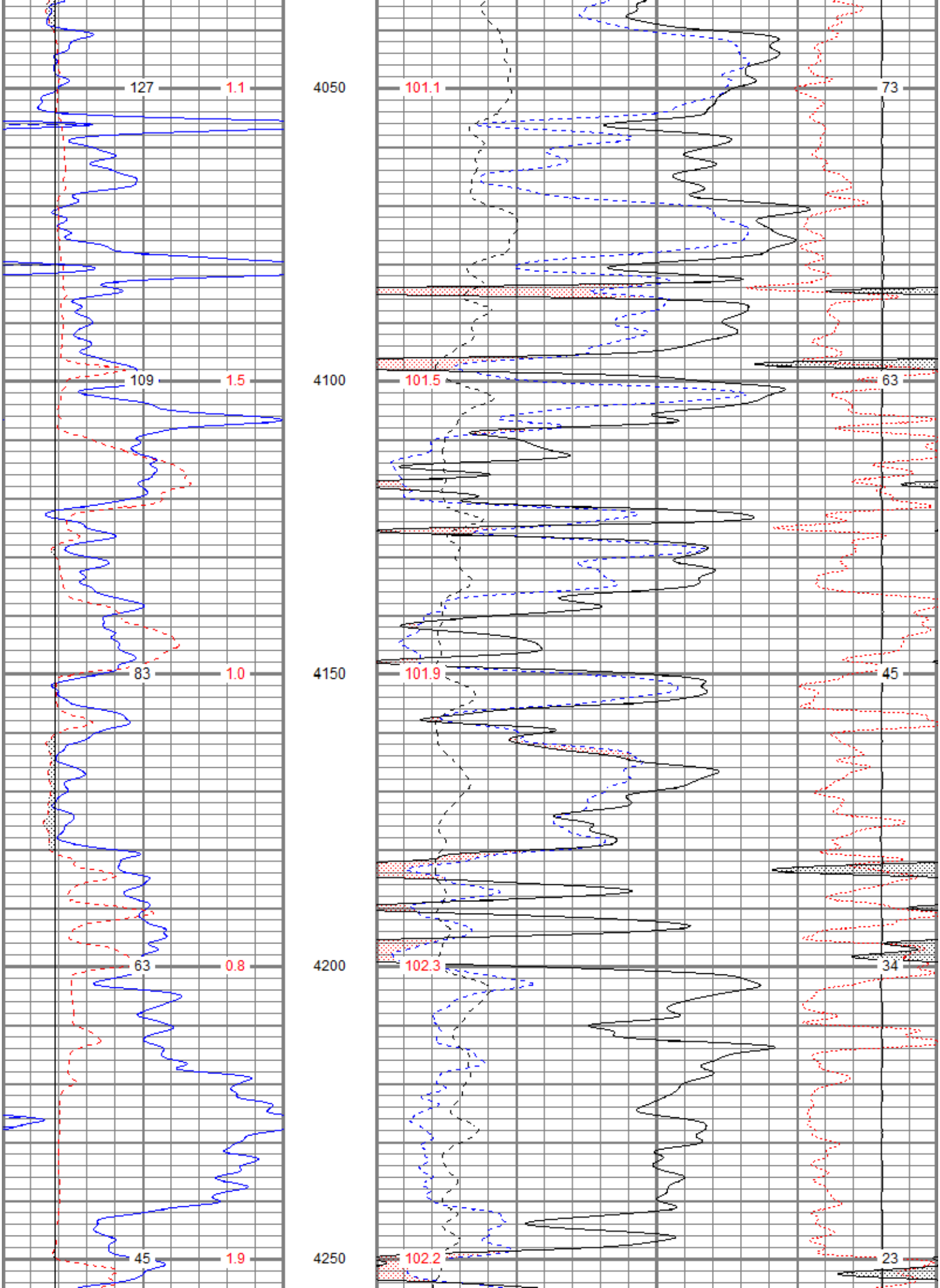
30	NPOR (pu)	-10		
30	DPOR (pu)	-10		
70	DPOR (pu)	30		
0	Pe (barn)	10	-0.25 RHOC (g/cc)	0.25
TEMP (degF)			8000 LTEN (lb)	0
				ABHV (ft3)

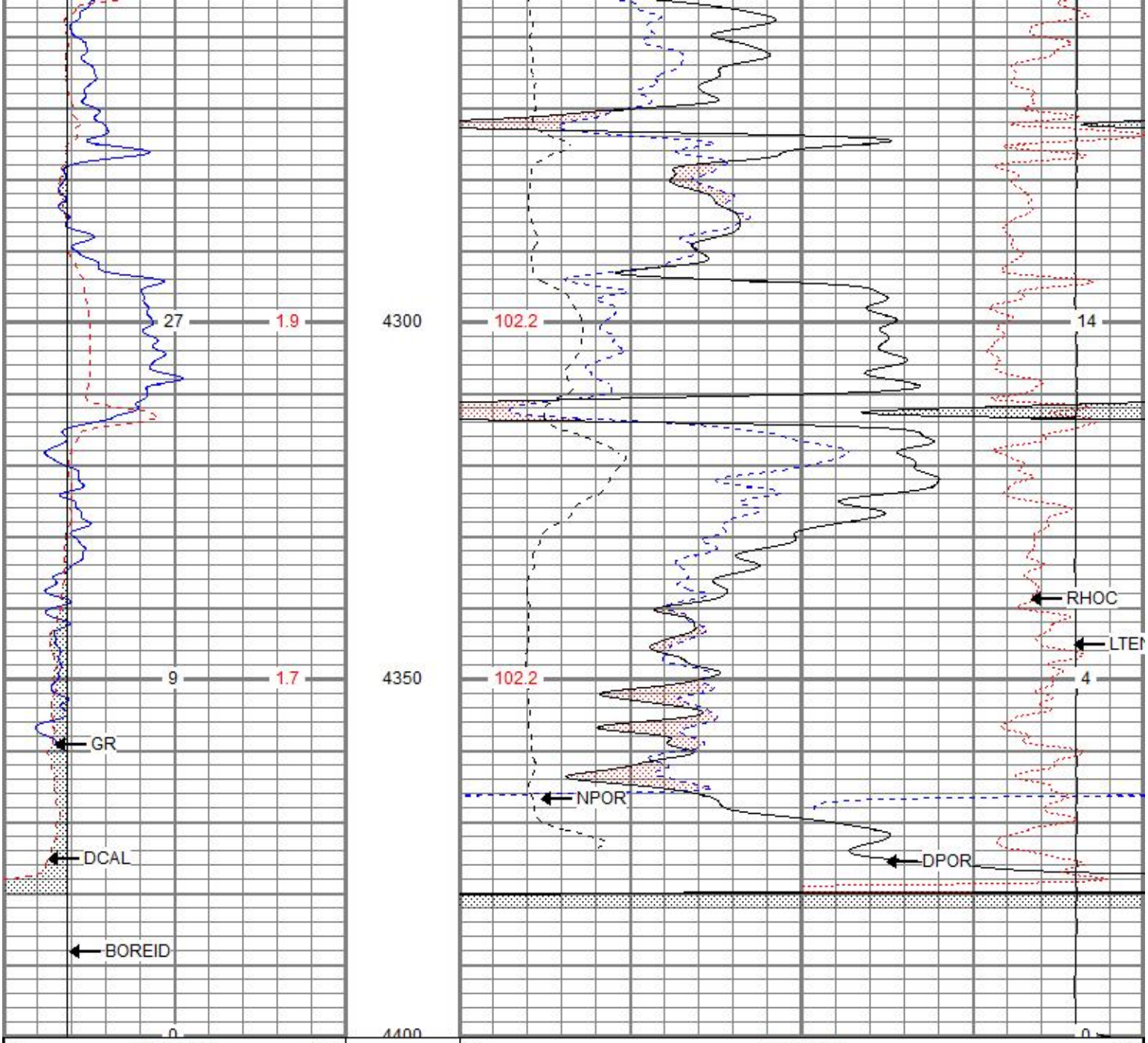



379
0.9
3400
98.8
218
362
1.0
3450
99.1
208
344
0.7
3500
99.4
199
327
0.4
3550
99.7
190


309
0.7
3600
100.0
181
290
0.5
3650
100.2
170
268
0.4
3700
100.4
156
242
1.4
3750
100.7
138
215
1.2
3800
100.7
119


198
1.0
3850
100.7
111
181
1.6
3900
100.6
102
162
0.9
3950
100.7
91
145
0.2
4000
100.8
82

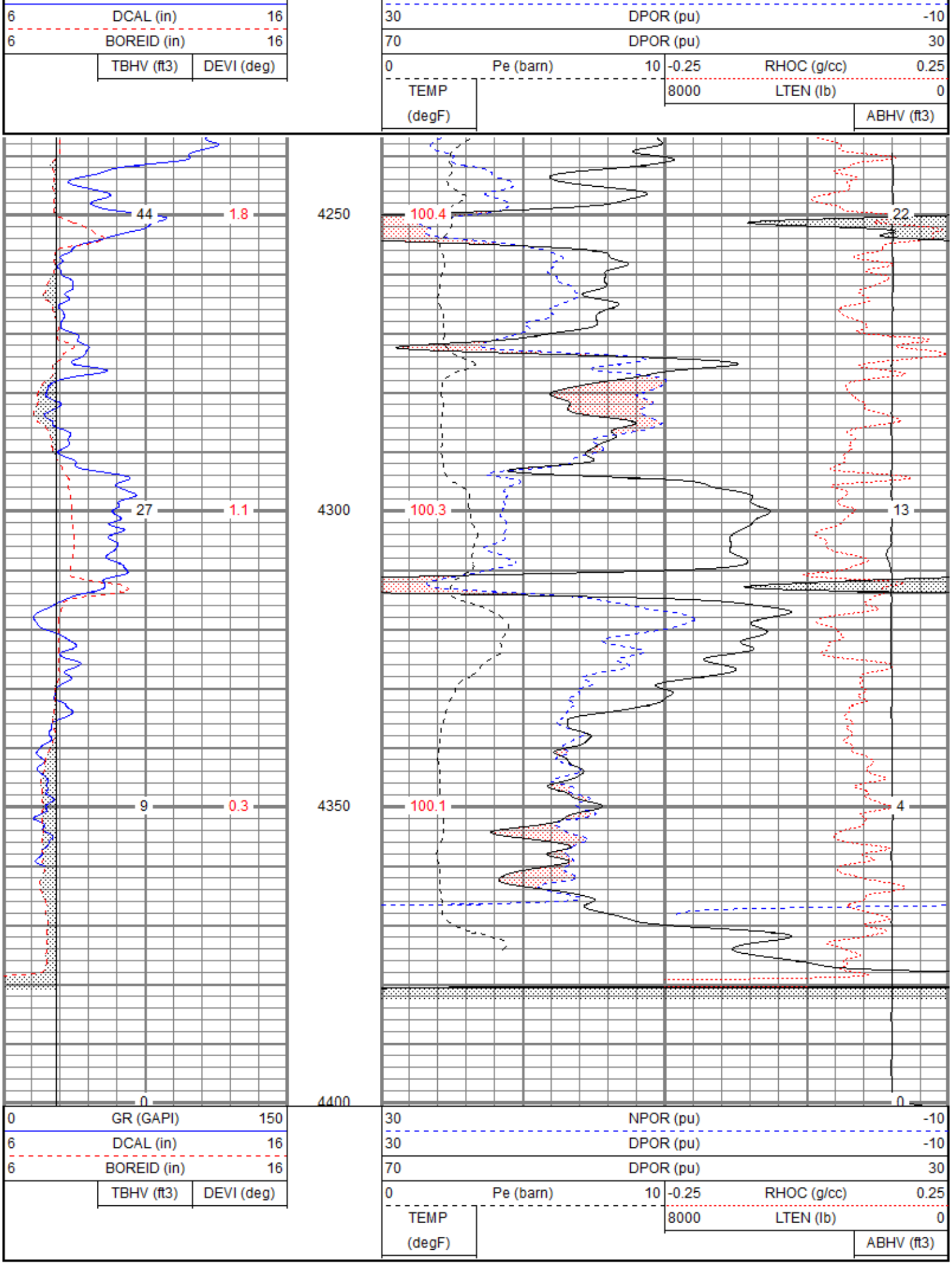

127
1.1
4050
101.1
73
109
1.5
4100
101.5
63
83
1.0
4150
101.9
45
63
0.8
4200
102.3
34
45
1.9
4250
102.2
23



Repeat Pass

Database File	reyoung#1oh.db
Dataset Pathname	pass1
Presentation Format	digital_kcdnl
Dataset Creation	Thu Jan 12 17:57:55 2017
Charted by	Depth in Feet scaled 1:240

0 GR (GAPI) 150
30 NPOR (pu) -10


6 DCAL (in) 16
6 BOREID (in) 16
TBHV (ft3) DEVI (deg)
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)
44 1.8
27 1.1
9 0.3
0
4250
4300
4350
4400
100.4
100.3
100.1
22
13
4
0
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 reyoung#1oh.db
Dataset Pathname pass1
Dataset Creation Thu Jan 12 17:57:55 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

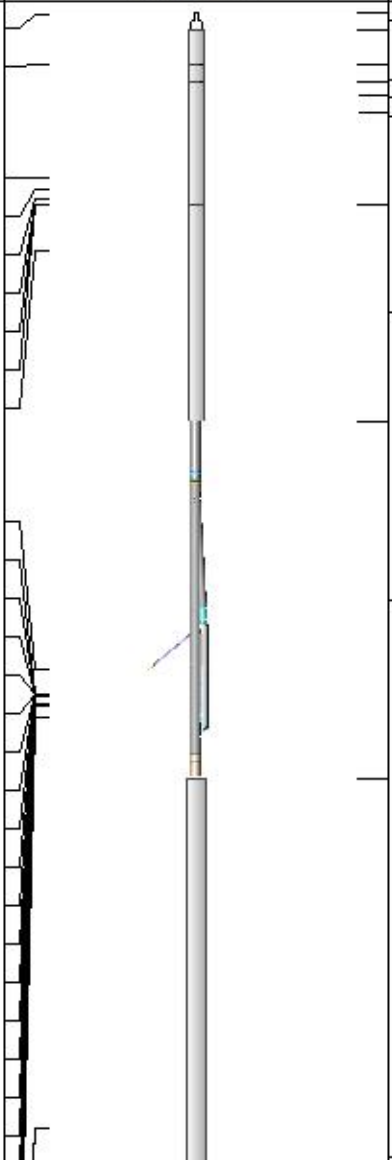
Temperature Calibration Report

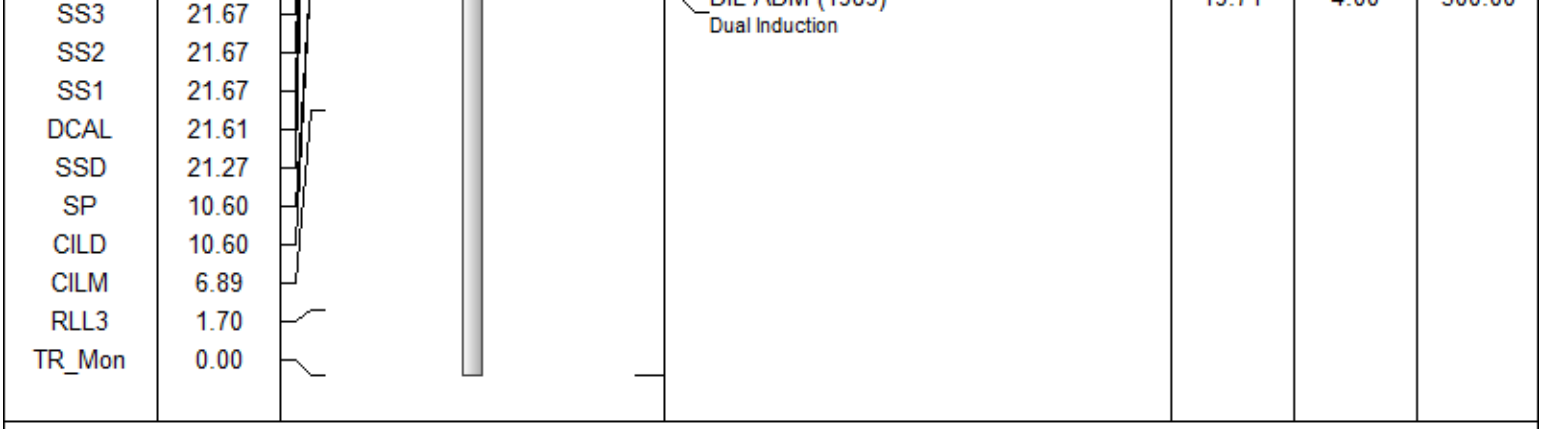
Serial Number:	1			
Tool Model:	A			
Performed:	Sat Apr 09 21:14:20 2016			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	32.00	degF	32.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

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) Pulsed Interface Tool #1	0.83	3.50	10.00
			ADT1ADC-A (1) Analog Interface #1	0.83	3.50	10.00
TEMP	35.35					
ASTAT	35.06		ADT1SENSORS-A (1)	4.54	3.50	10.00
GRD	34.81					
ACCY	34.65					
ACCX	34.65		NEU-G (Admyr) Gearhart Epithermal	5.65	3.50	85.00
SSTAT	34.65					
NEU	33.46					
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		DIL-ADM (1989)	19.71	4.00	300.00



Dataset:	reyoung#1oh.db: field/well/run1/pass1
Total length:	39.69 ft
Total weight:	656.00 lb
O.D.:	4.00 in