COMPENSATED DENSITY NEUTRON LOG

Company John O. Farmer, Inc.

Well Schroeder Unit #1

Field Wildcat

County Thomas State KS

Location: API # : 15 193 20965

165' FNL & 2135' FWL

SEC 14 TWP 6S RGE 33W

Other Services
ML
DIL
BCS

Elevation
K.B. 3096'
D.F. 3095'
G.L. 3088'

Permanent Datum	Ground Level	Elevation 3088'
Log Measured From	KB 8' AGL	
Drilling Measured From	KB	

Date	7-11-16		
Run Number	One		
Depth Driller	4600'		
Depth Logger	4600'		
Bottom Logged Interval	4577'		
Top Log Interval	3600'		
Casing Driller	263'		
Casing Logger	263'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical Mud		
Density / Viscosity	8.9/67		
pH / Fluid Loss	9/9.6		
Source of Sample	Pit		
Rm @ Meas. Temp	2.2@72degf		
Rmf @ Meas. Temp	1.65@72degf		
Rmc @ Meas. Temp	2.64@72degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	1.26@125degf		
Time Circulation Stopped	5:30 p.m.		
Time Logger on Bottom	8:30 p.m.		
Maximum Recorded Temperature	125 degf		
Equipment Number	T127		
Location	Hays, KS.		
Recorded By	Gus Pfanenstiel		
Witnessed By	Mr. Austin Klaus		

Company John O. Farmer, Inc.
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Field Wildcat
County Thomas
State KS

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Comments

North of Colby to CC Rd., East 4 miles

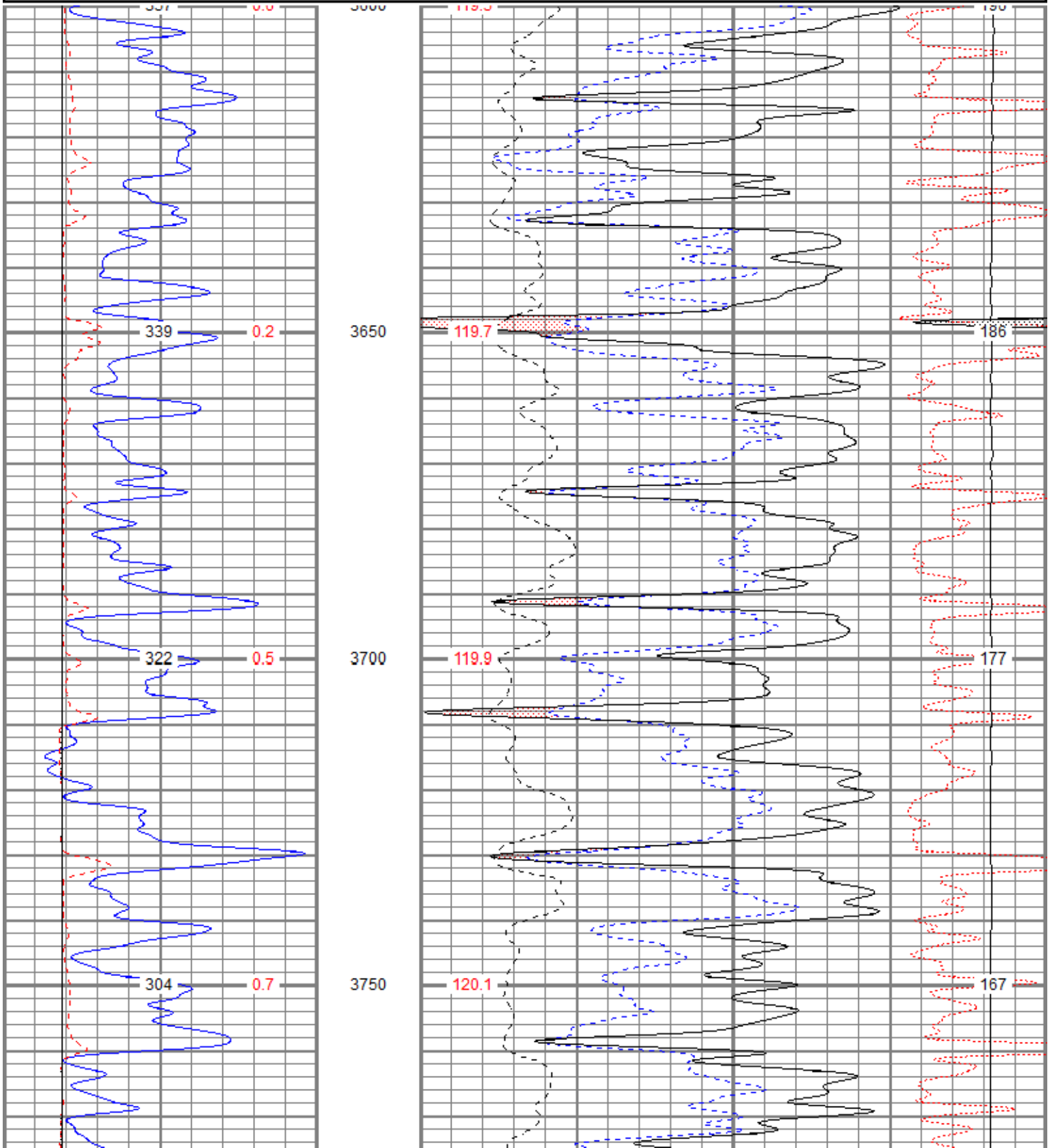
Thank you for using Gemini Wireline
785-625-1182

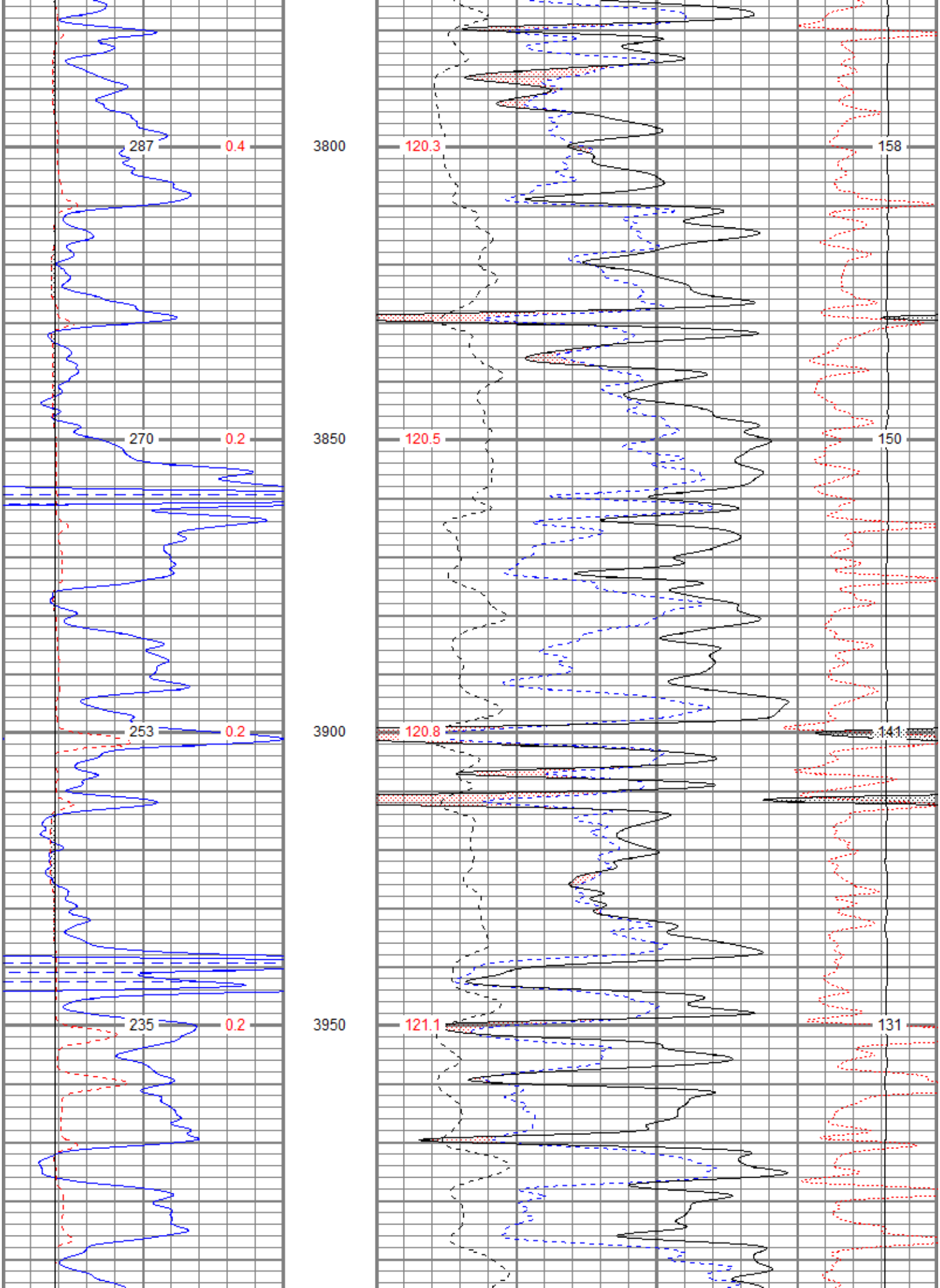
Main Pass

Database File	jofschroederunit#1oh.db
Dataset Pathname	pass3.1
Presentation Format	DIGITA~1
Dataset Creation	Mon Jul 11 21:13:08 2016
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
8000	LTEN (lb)	0
TEMP (degF)		ABHV (ft3)

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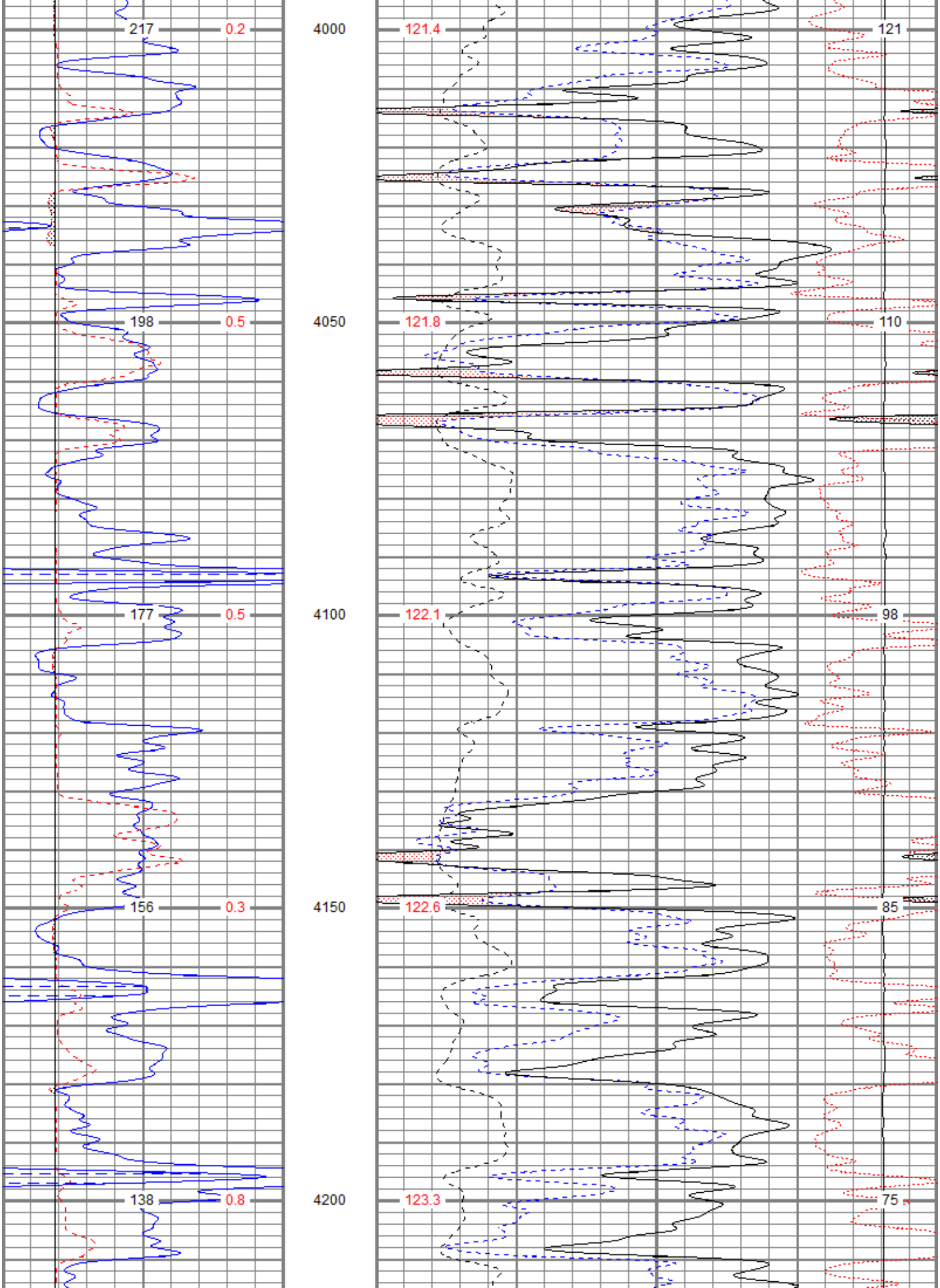
3800
120.3
158
270
0.2
3850
120.5
150
253
0.2
3900
120.8
141
235
0.2
3950
121.1
131


217
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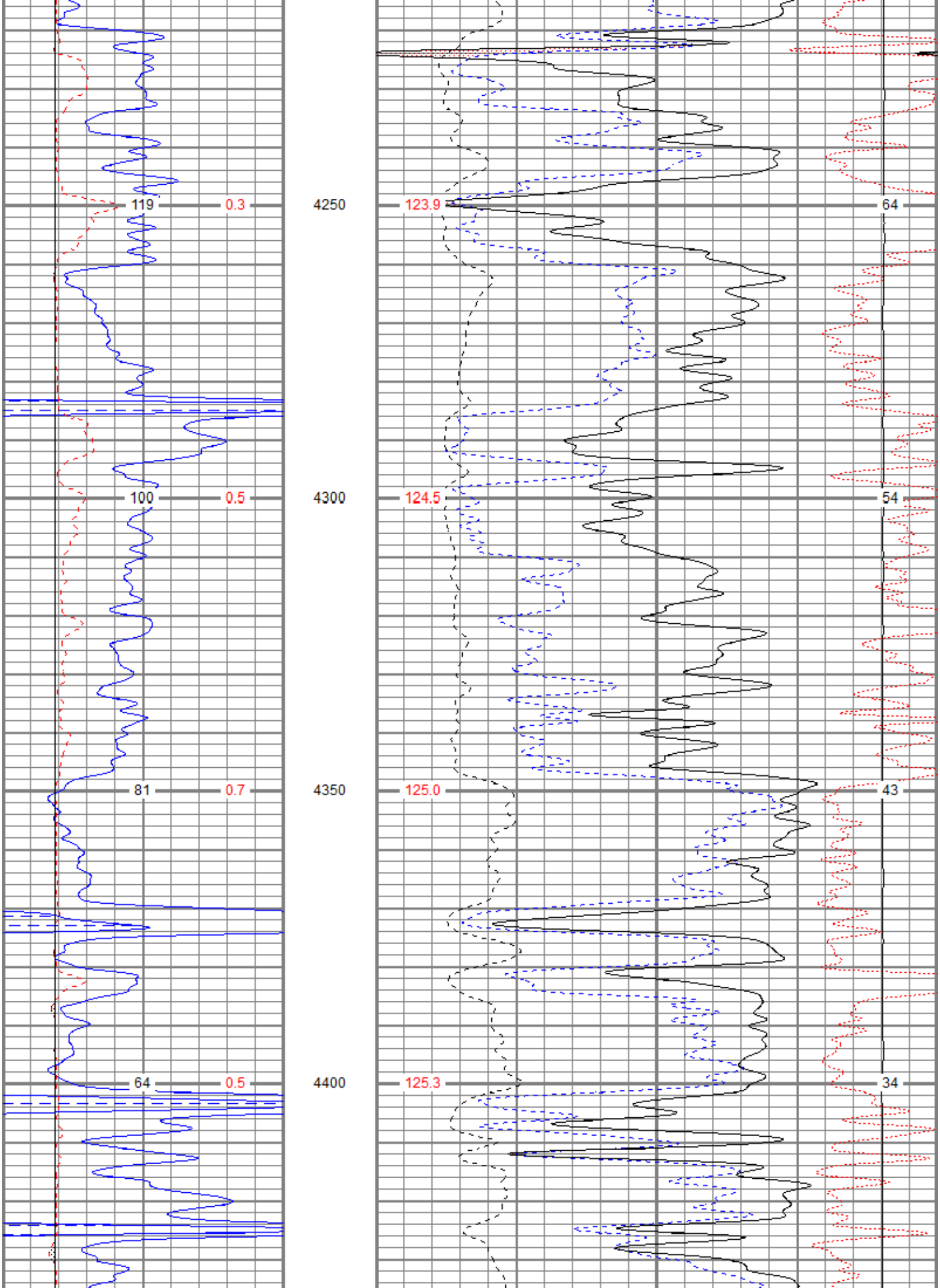
4000
121.4
121
198
0.5
4050
121.8
110
177
0.5
4100
122.1
98
156
0.3
4150
122.6
85
138
0.8
4200
123.3
75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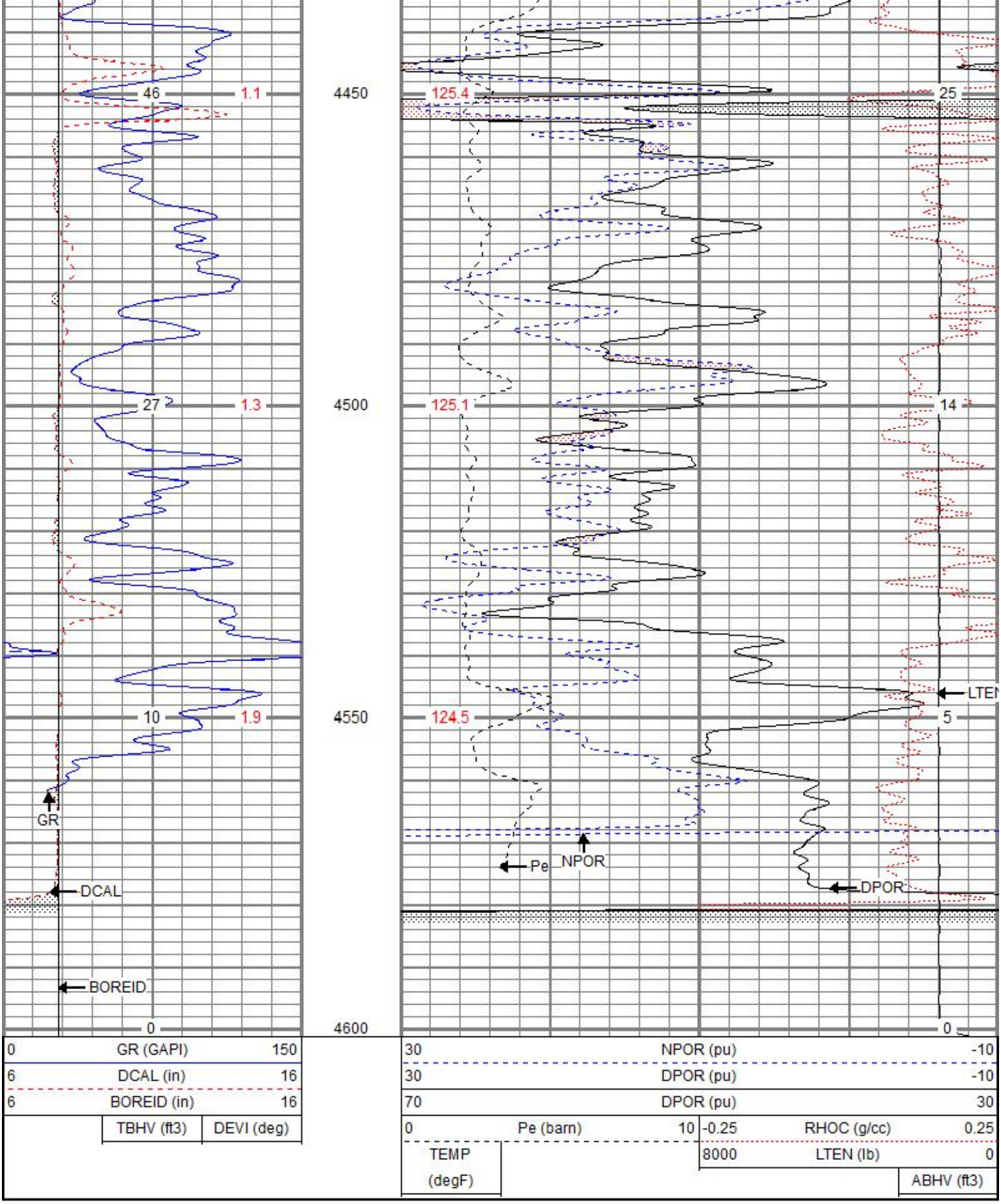
4250
123.9
64
100
0.5
4300
124.5
54
81
0.7
4350
125.0
43
64
0.5
4400
125.3
34



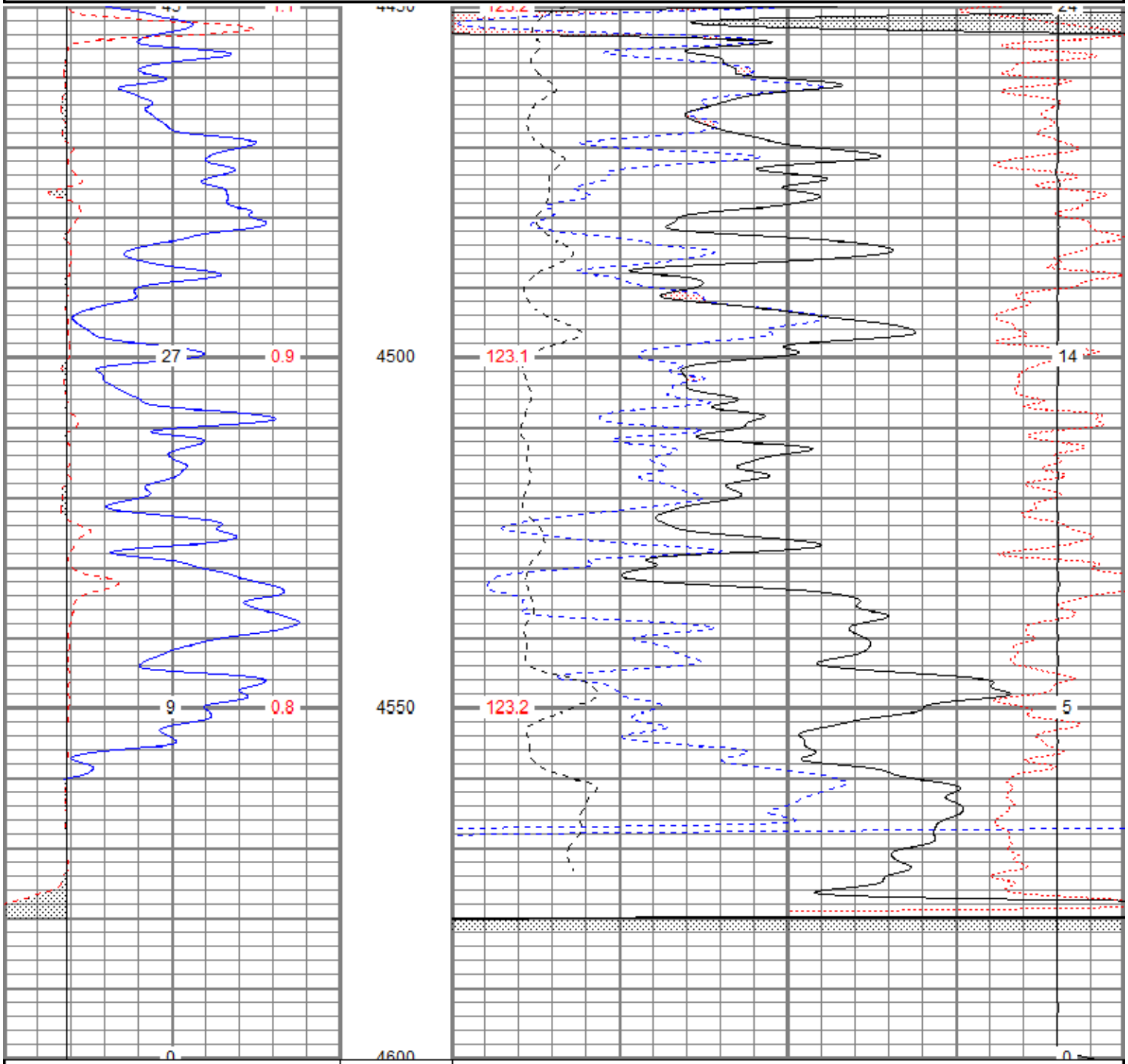
GEMINI WIRELINE

Repeat Pass

Database File	jofschroederunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	digital_kcdnl
Dataset Creation	Mon Jul 11 22:39:09 2016
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
TEMP (degF)			8000	LTEN (lb)	0
					ABHV (ft3)

Calibration Report

Database File jofschroederunit#1oh.db
Dataset Pathname pass2.1
Dataset Creation Mon Jul 11 22:39:09 2016

Dual Induction Calibration Report

Serial-Model:	1989-ADM
Surface Cal Performed:	Mon Jul 11 13:18:03 2016
Downhole Cal Performed:	Mon Jul 11 13:18:44 2016
After Survey Verification Performed:	Mon Jul 11 13:18:44 2016

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.002	0.657	V	0.000	350.000	mmho/m	534.861	-1.299
Medium	0.002	0.744	V	0.000	400.000	mmho/m	539.222	-1.165
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.657	V	0.000	350.000	mmho/m	534.711	-1.266
Medium	0.003	0.744	V	0.000	550.000	mmho/m	741.803	-1.992

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.072	350.016	mmho/m	-0.033	350.065	mmho/m	1.000	-0.104
Medium	0.086	400.049	mmho/m	0.283	400.082	mmho/m	1.000	0.198
Shallow	2.507	0.018	V	500.000	2.000	Ohm-m	200.097	-1.642

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.072	350.016	mmho/m	1.000	-0.104
Medium	0.000	0.000	mmho/m	0.086	400.049	mmho/m	1.000	0.198
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Neutron Calibration Report

Serial Number:	2301AN	
Tool Model:	Oilex	
Performed:	Tue Jun 28 11:51:54 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Gamma Ray Calibration Report

Serial Number:	1	
Tool Model:	A	
Performed:	Tue Jun 28 11:51:59 2016	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.7000	GAPI/cps

Temperature Calibration Report

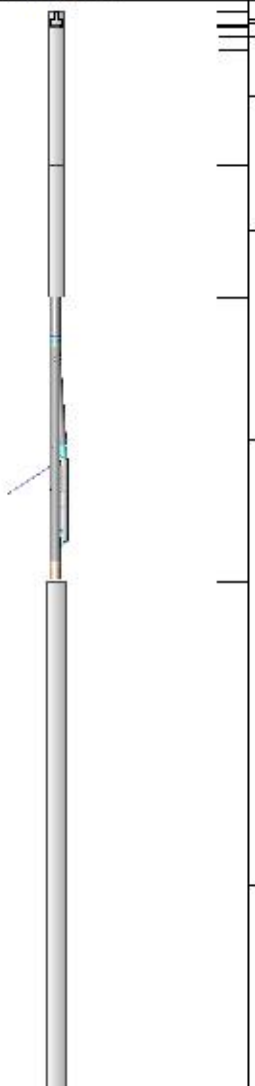
Serial Number:	1			
Tool Model:	A			
Performed:	Sat Apr 09 21:14:20 2016			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	32.00	degF	32.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Inclinometer Calibration Report

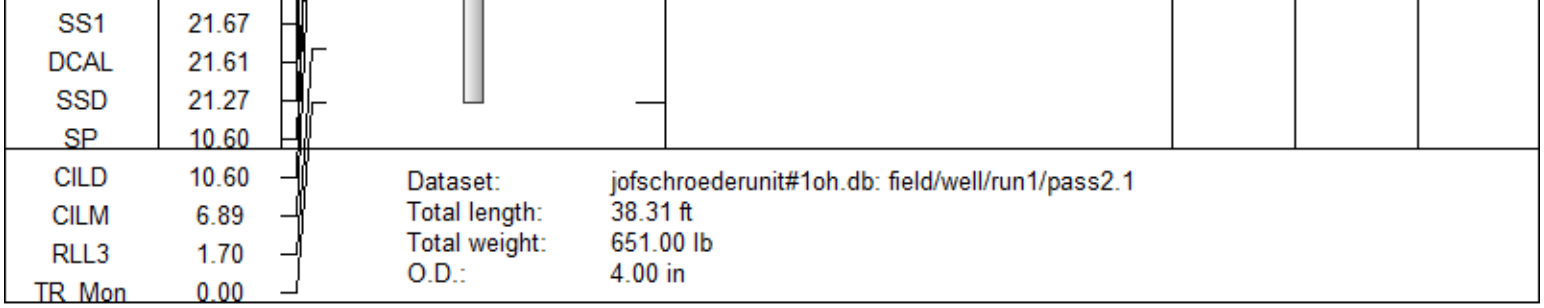
Performed: Fri Nov 13 12:11:33 2015

	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)
PSTAT	38.23
GR	36.95
TEMP	33.98
ASTAT	33.69
GRD	33.44
ACCY	33.27
ACCX	33.27
SSTAT	33.27
NEU	32.50
LStat	22.54
LS8	21.88
LS7	21.88
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



Description	Length (ft)	O.D. (in)	Weight (lb)
CHD-STD	0.50	1.69	1.00
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
ADT1SENSORS-A (1)	4.54	3.50	10.00
NEU-Oilex (2301AN) Oilex 100V NEU	4.27	3.50	80.00
ADT1LITH-A (1) Admyr Litho Density Tool	9.29	3.50	240.00
DIL-ADM (1989) Dual Induction	19.71	4.00	300.00



CILD	10.60
CILM	6.89
RLL3	1.70
TR_Mon	0.00

Dataset:	jofschroederunit#1oh.db: field/well/run1/pass2.1
Total length:	38.31 ft
Total weight:	651.00 lb
O.D.:	4.00 in