

[illegible]

Log Variables

DatabaseC:\ProgramData\Warrior\Data\cobalt_mac family #1-34.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	123	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	855	90		4703

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth



MIDWEST WIRELINE

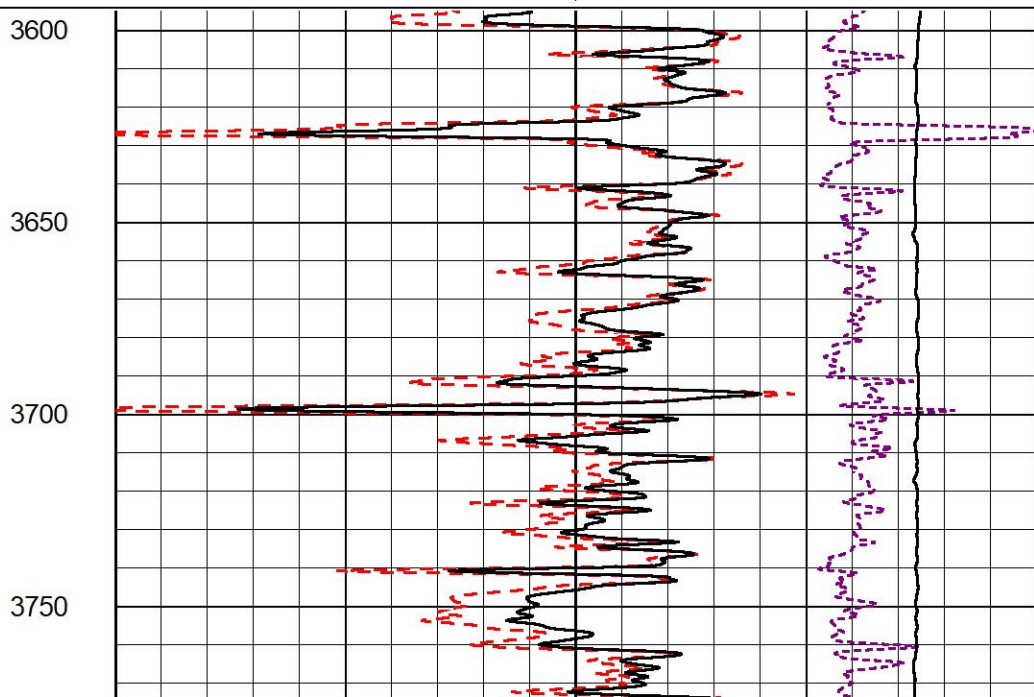
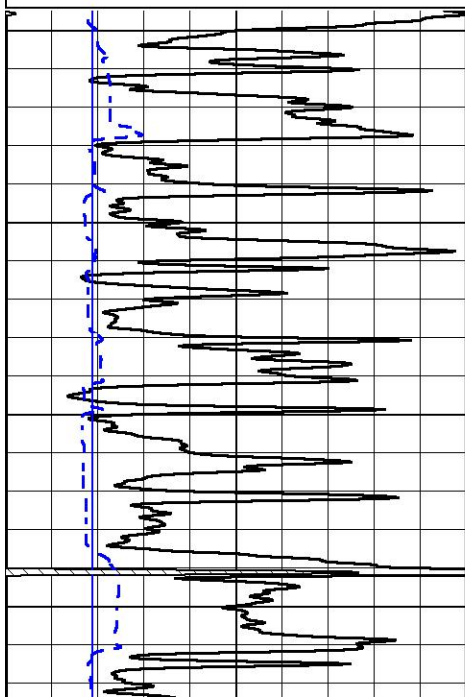
2" SCALE BULK DENSITY

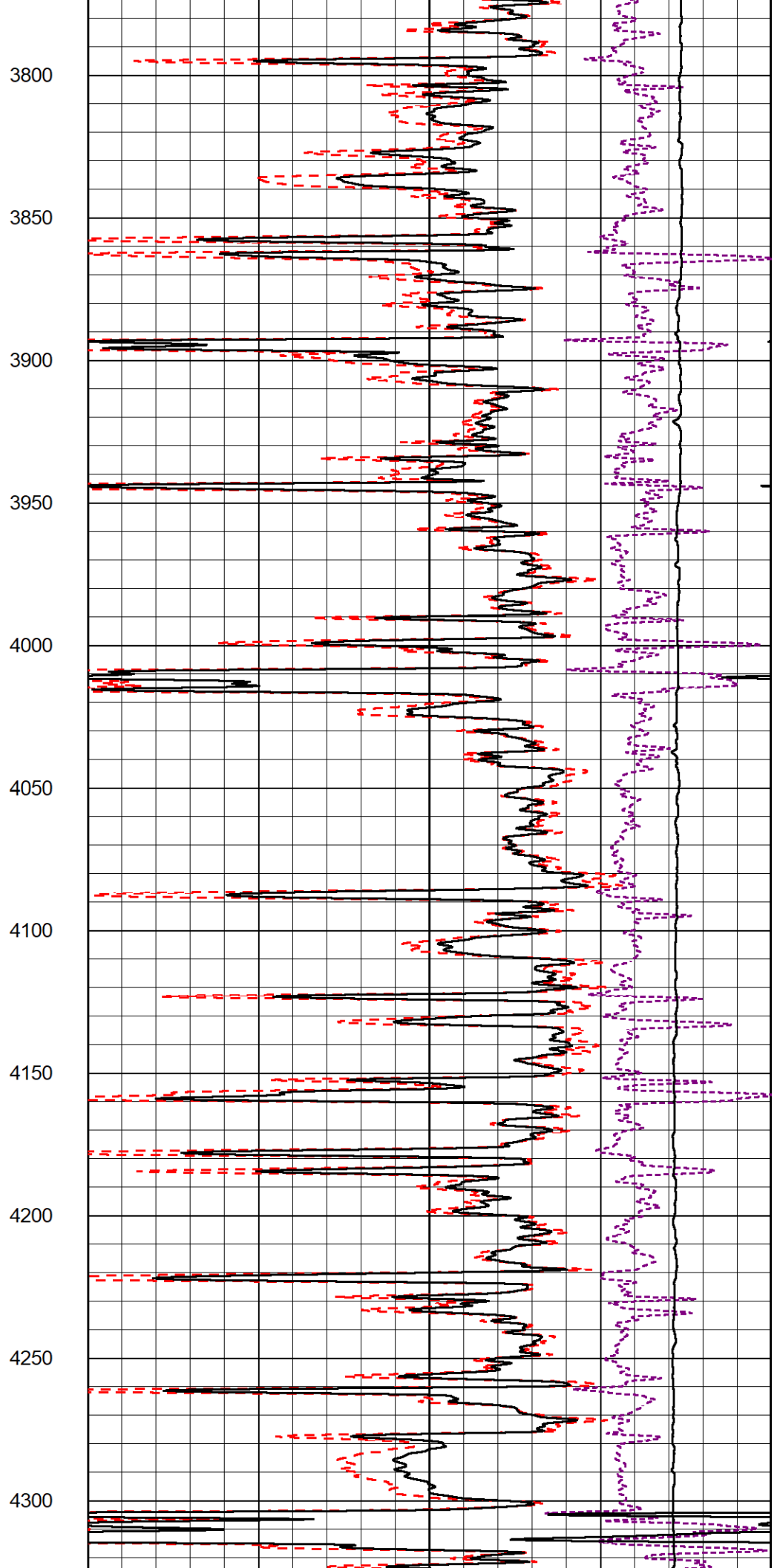
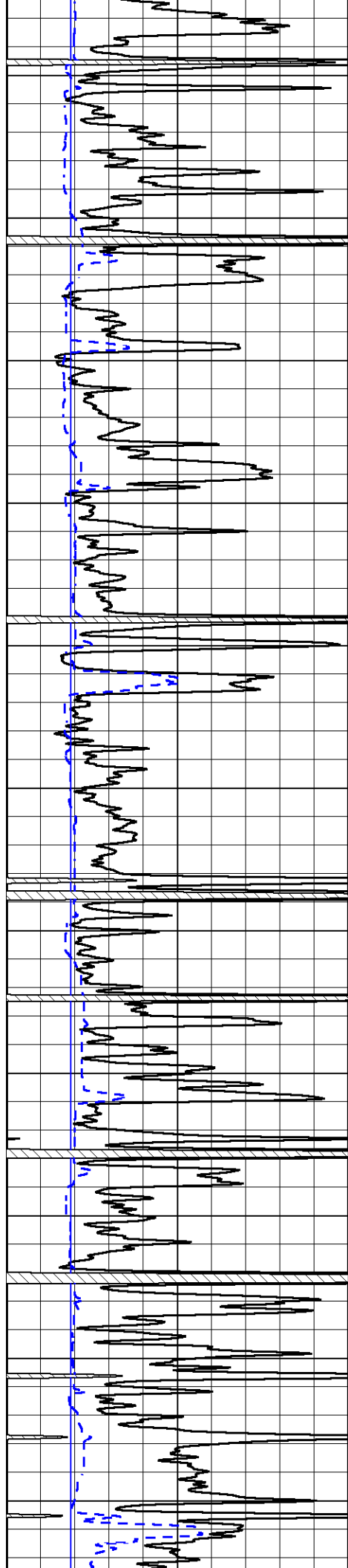
MAIN PASS

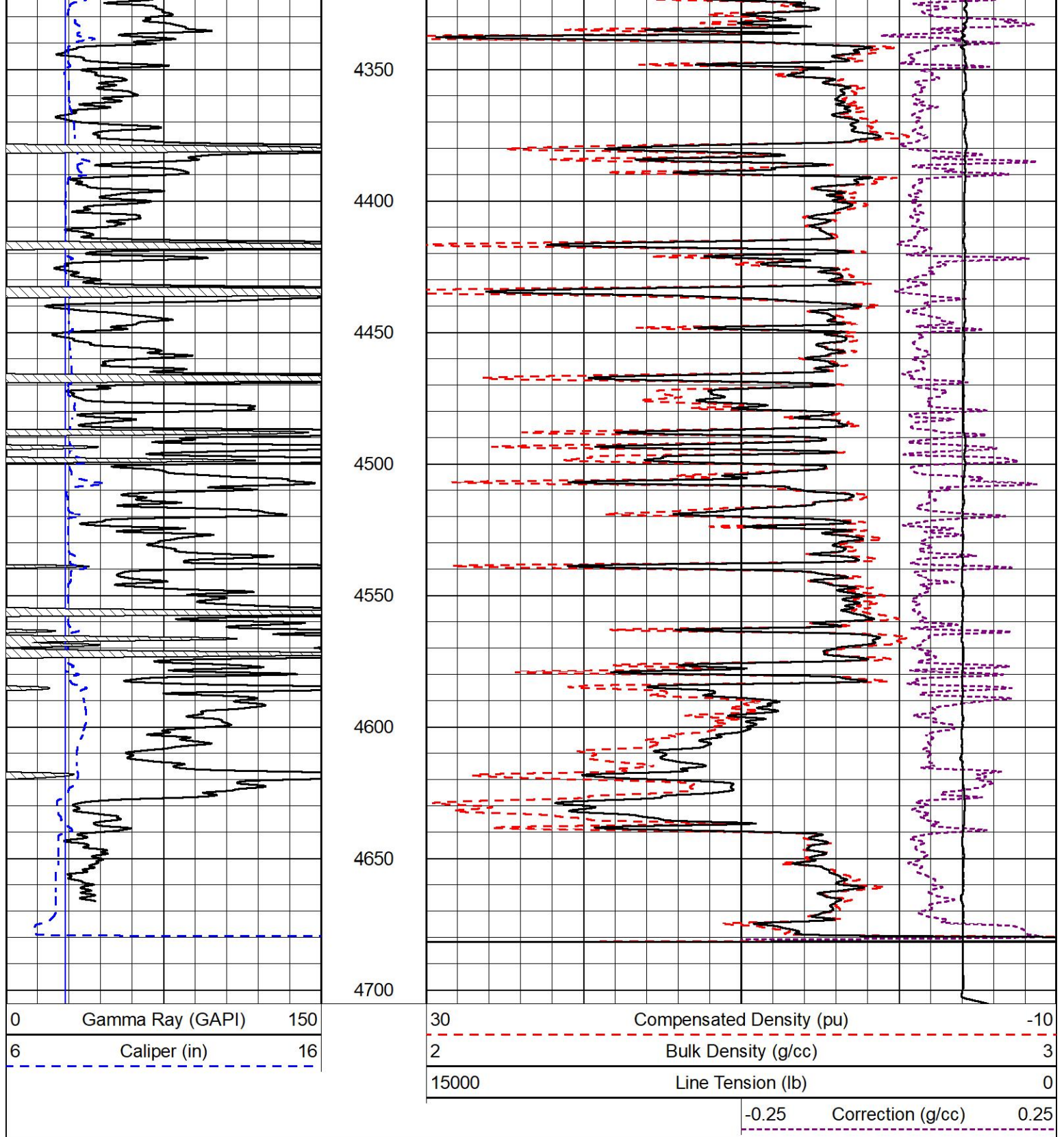
Database File cobalt_mac family #1-34.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Wed Jun 29 11:35:16 2022
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25







MIDWEST WIRELINE

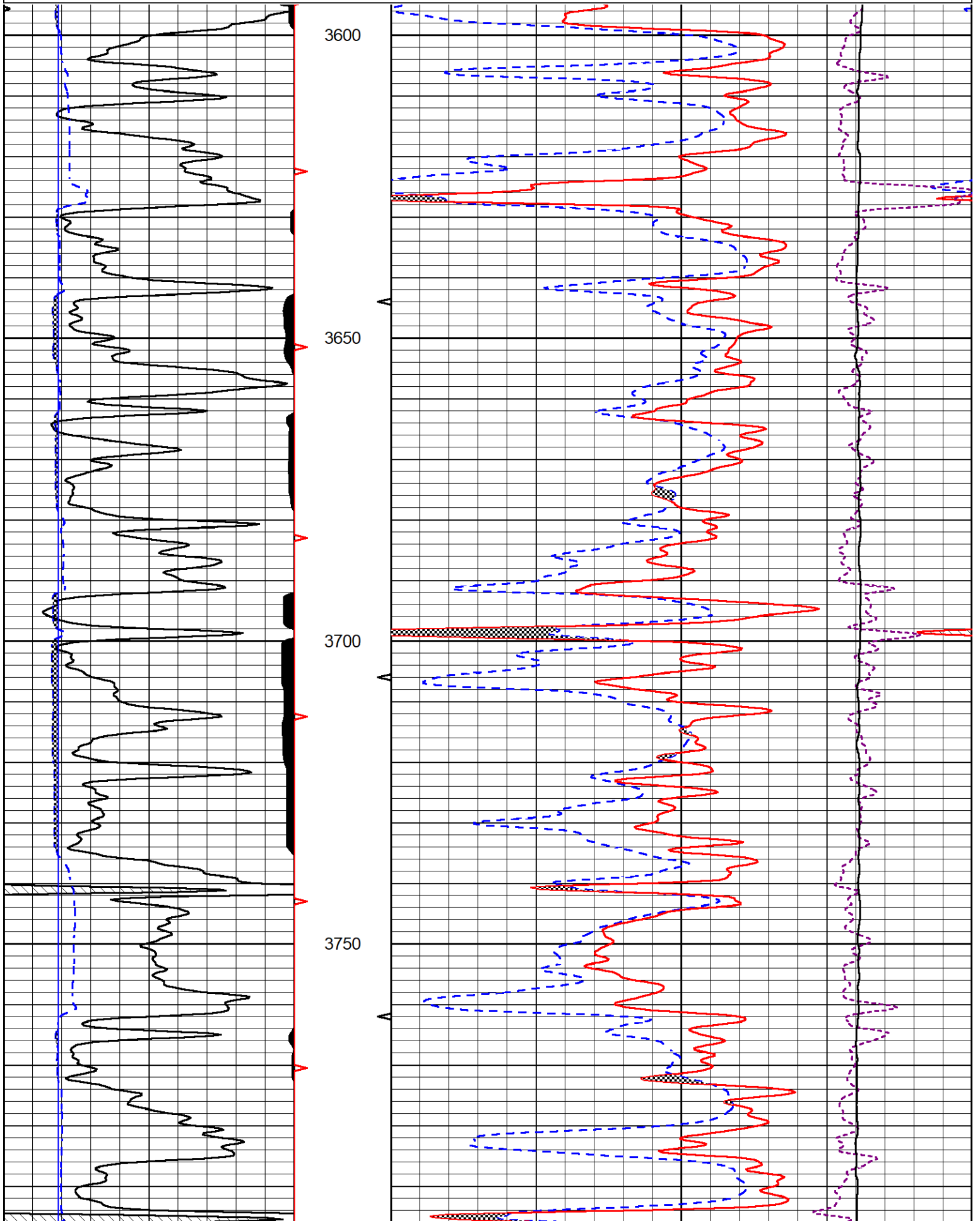
DETAIL SECTION

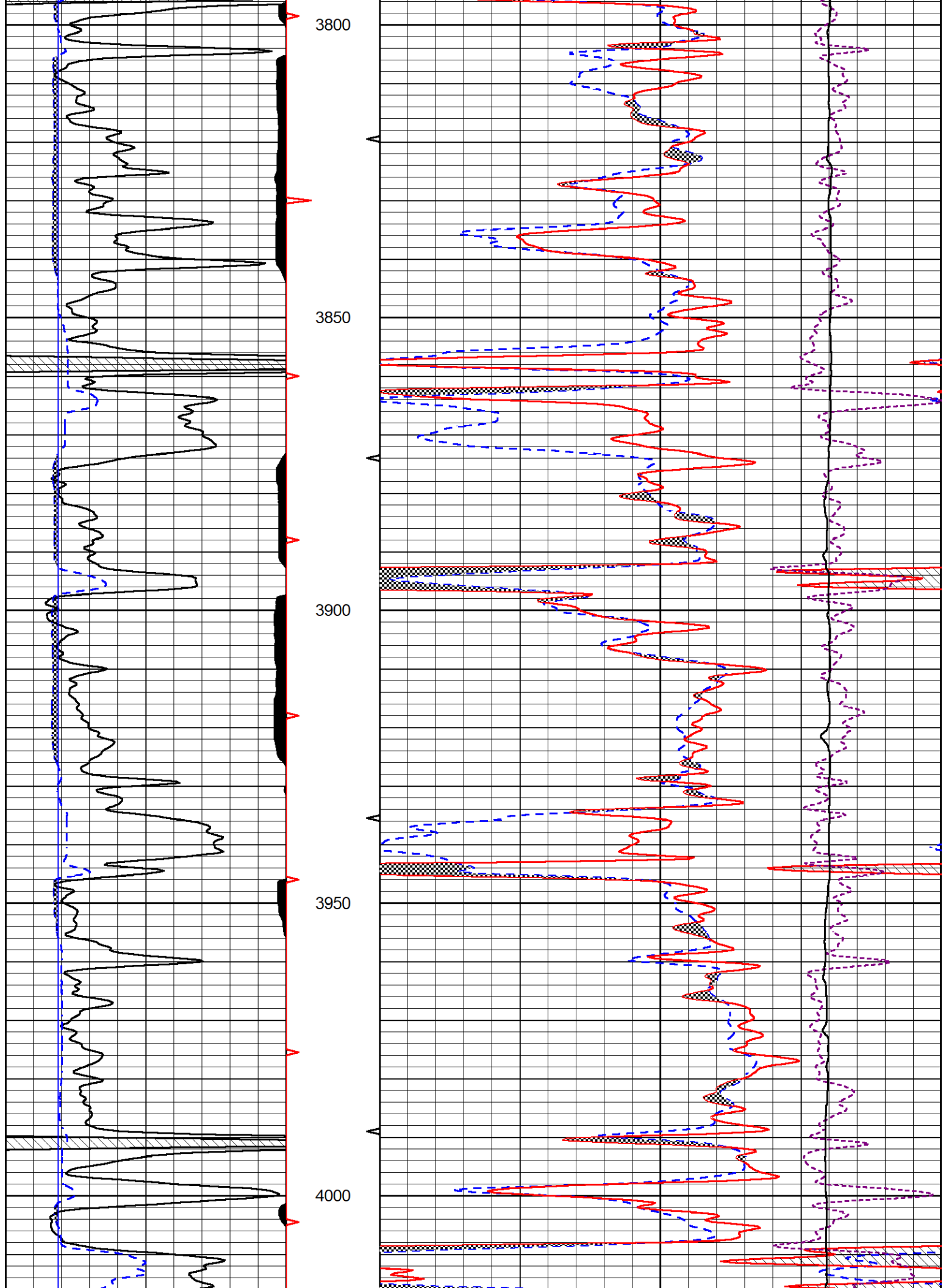
MAIN PASS

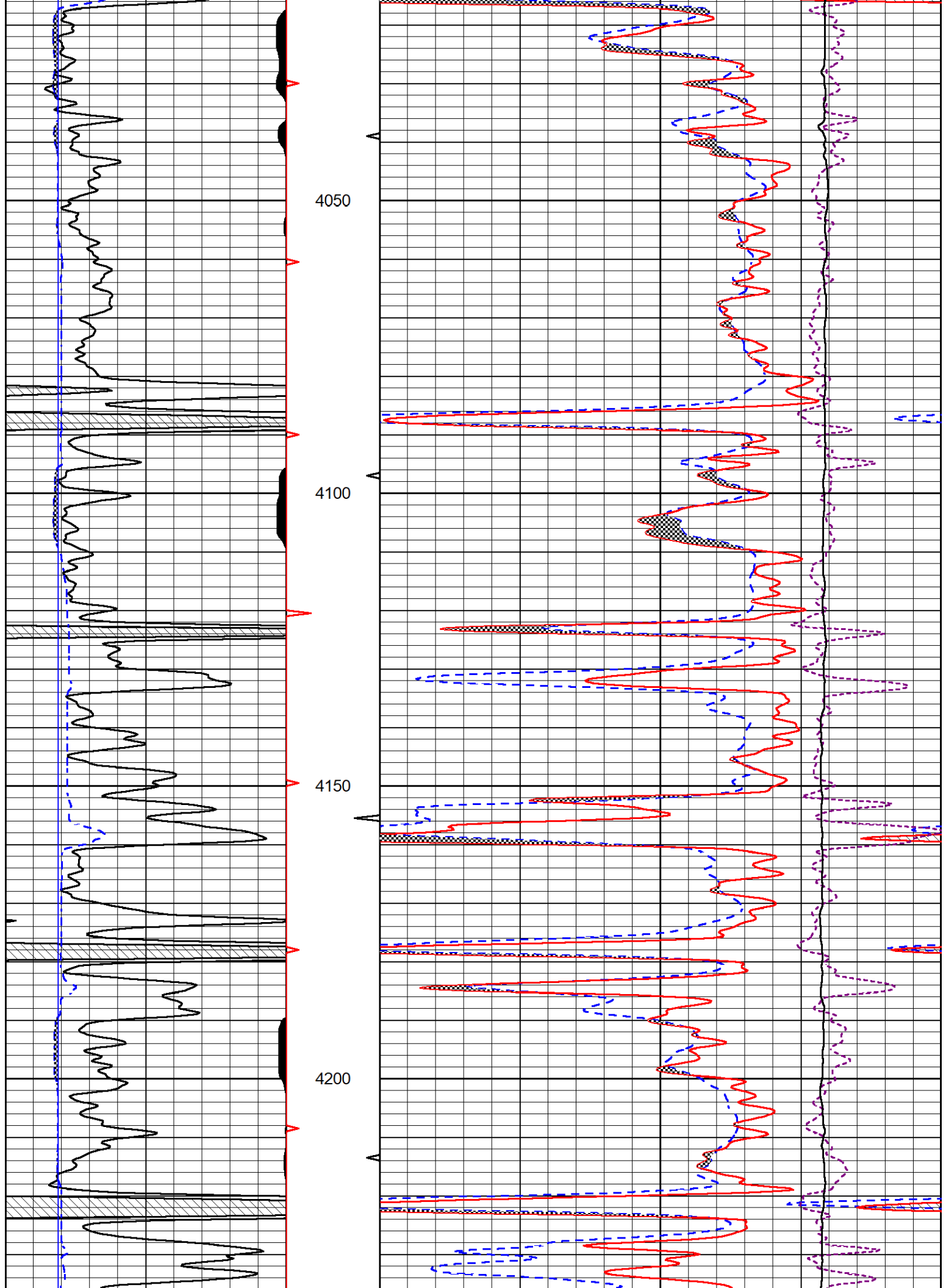
Database File cobalt_mac family #1-34.db
 Dataset Pathname StkMI/pass3.1
 Presentation Format _CNDLS~1
 Dataset Creation Wed Jun 29 12:13:07 2022
 Charted by Depth in Feet scaled 1:240

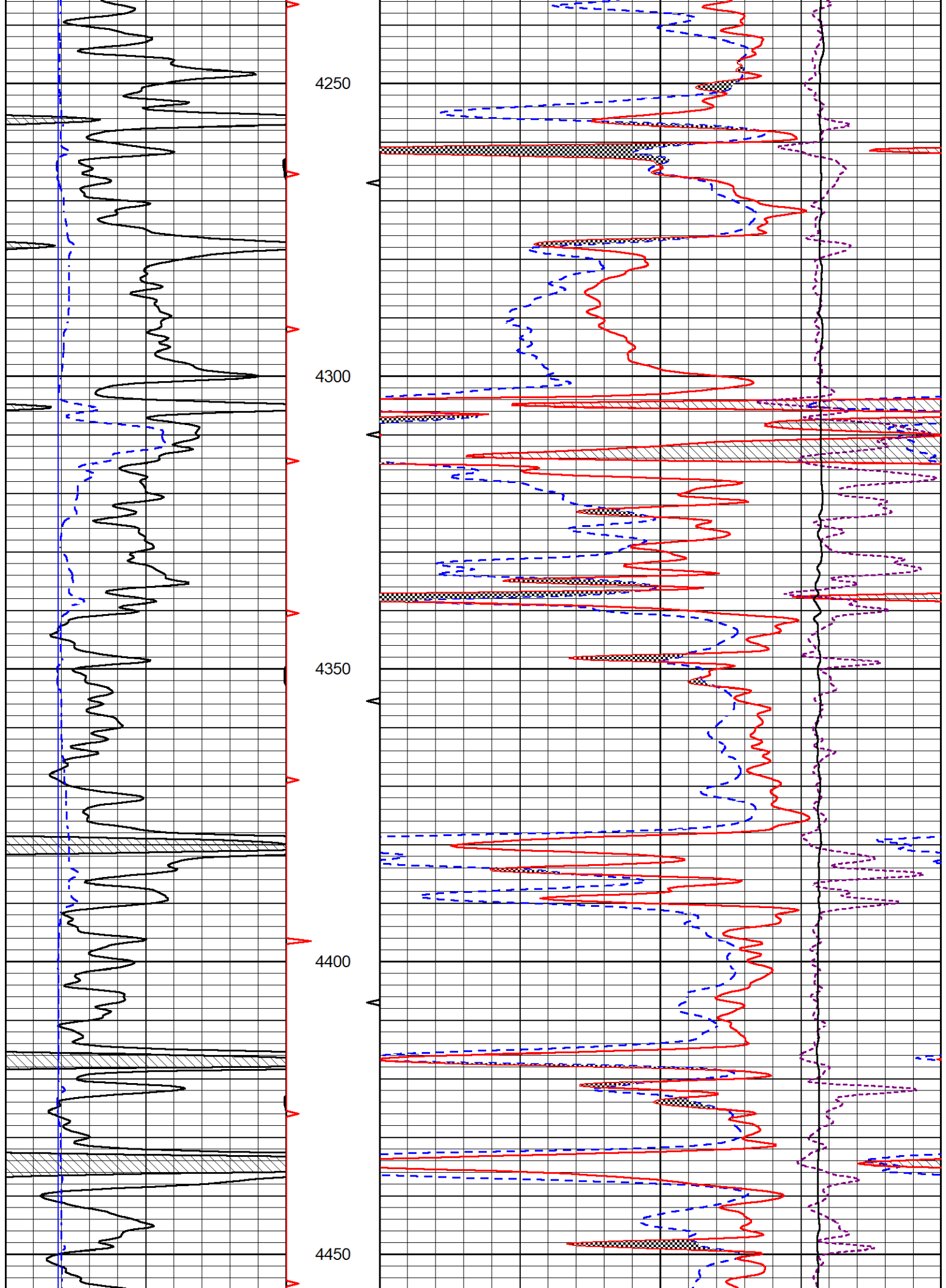
0	GR (GAPI)	150
6	DCAL (in)	16

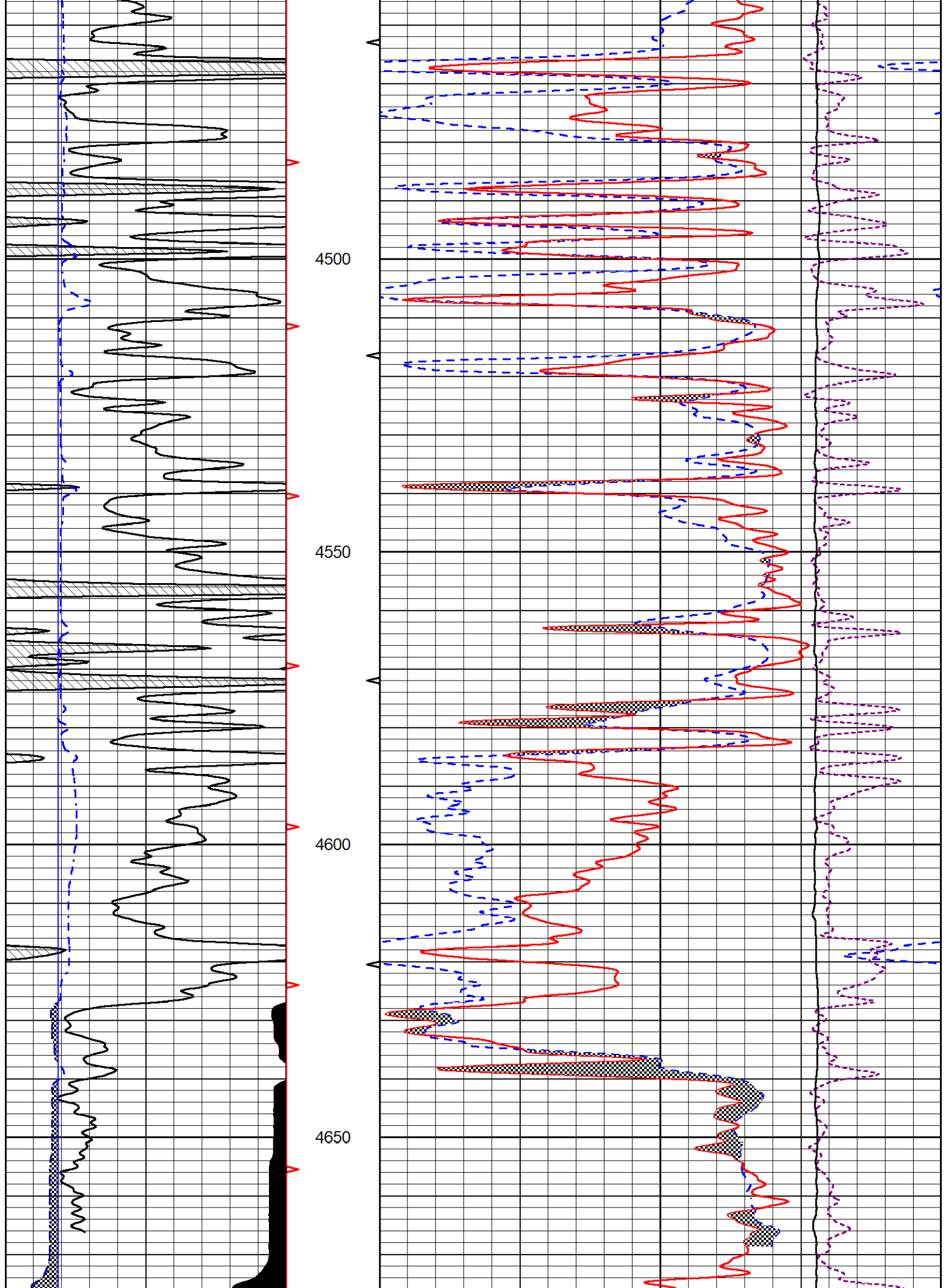
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
	-0.25	Correction (g/cc) 0.25

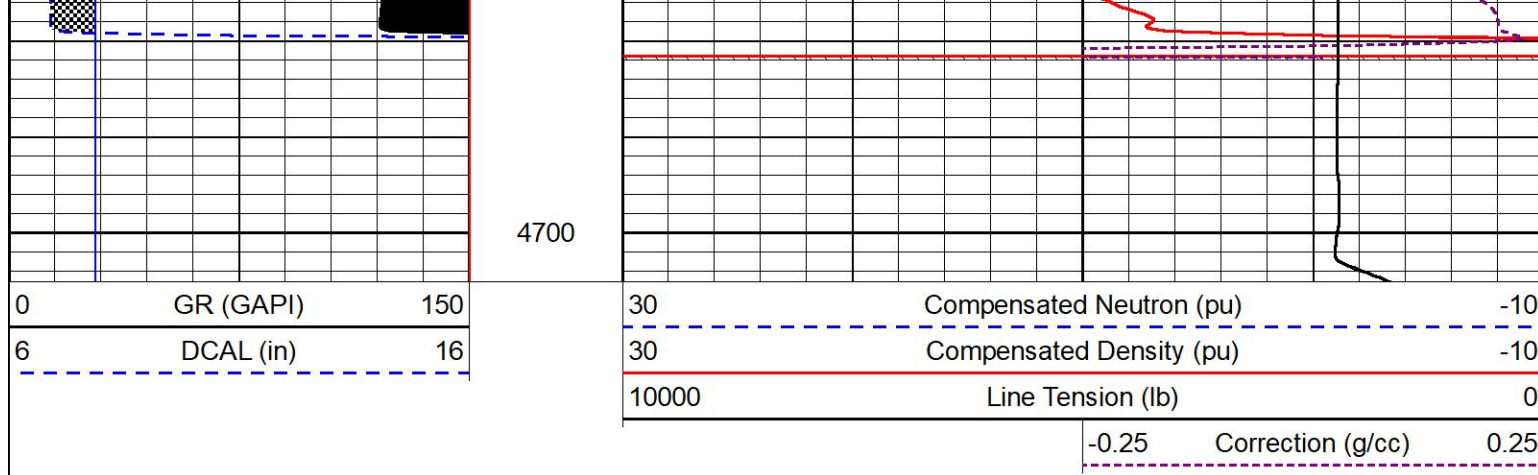










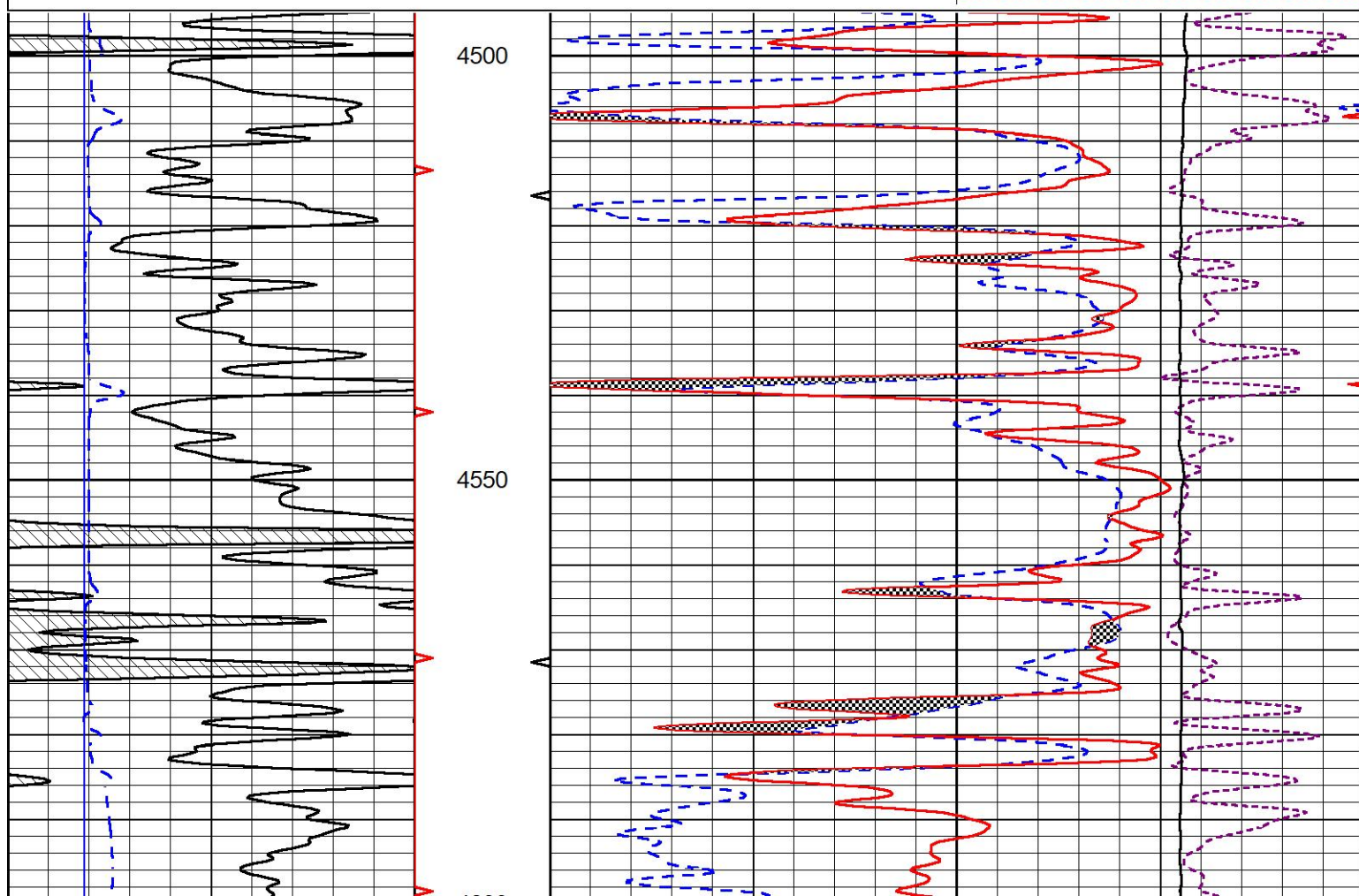
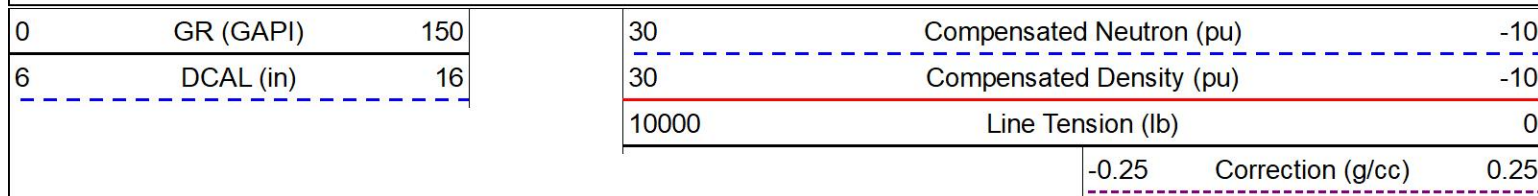


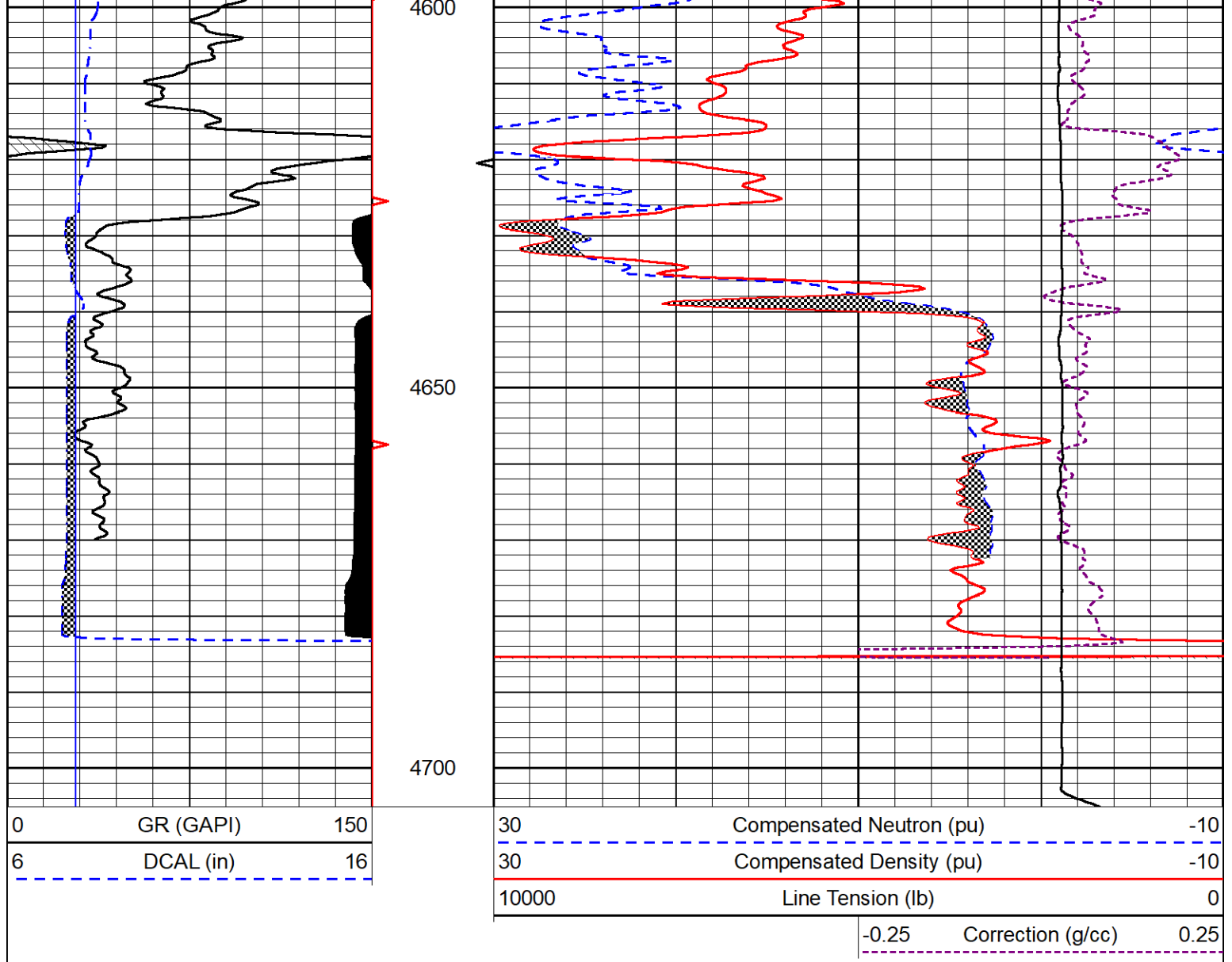
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File cobalt_mac family #1-34.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Wed Jun 29 11:33:48 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File cobalt_mac family #1-34.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Wed Jun 29 12:13:07 2022

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
 Surface Cal Performed: Thu Dec 16 22:32:49 2021

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-15.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-52.500

Microlog Calibration Report

Serial-Model: 401-PSI STKBL ML
 Performed: Fri Jun 3 18:46:15 2022

Readings		References		Results	
Zero	Cal	Zero	Cal	m	b

Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	24000.0000	-0.8000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	18750.0000	0.0000
Caliper	1.0049	1.0846	5.5000	20.0000	in	165.0000	-162.0000

Compensated Density Calibration Report

Serial-Model: 303-03-M&W
 Source #: 21170B
 Master Calibration Performed: Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.03		

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
 Source #: N-1238
 Master Calibration Performed: Fri Dec 3 09:16:24 2021

Master Calibration

Detector	Readings		Target	Normalization
Short Space	6240.00	cps	1000.00 cps	1.6025
Long Space	460.00	cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 103
 Tool Model: M&W
 Performed: Fri Dec 3 12:13:24 2021
 Calibrator Value: 500.0 GAPI
 Background Reading: 28.0 cps
 Calibrator Reading: 986.0 cps
 Sensitivity: 0.5700 GAPI/cps



Company Cobalt Energy LLC
 Well Mac Family #1-34
 Field
 County Logan
 State Kansas