



Pioneer Energy Services

DUAL COMP POROSITY LOG

Company	CONCORDE RESOURCES CORP
Well	MCDANIEL #1-13
Field	WILDCAT
County	LOGAN
	State KANSAS

API #: 15-109-21581-00-00

1405' FSL & 1380' FEL

SEC 13 TWP 15S RGE 34W

Permanent Datum	GROUND LEVEL	Elevation	2949
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Drilling Measured From KELLY BUSHING

Elevation	
K.B.	2956'
D.F.	N/A
G.L.	2949'

Date	5/4/2019
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Run Number	ONE
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Type Log	C/NL/C/DL

Depth Driller	4670
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Depth Logger	4071
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Bottom Logged Interval	4042
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Top Logged Interval	3300
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Type Fluid In Hole	CHEMICAL
	4500

Salinity, FFM CL	4300
Density	800

Delisity	9.2
	1111

Level	100
New Data Term F	100

Operating Risk Time	3 HOURS
Max. Rev. Eligible	120

Equipment	Location
Operating	Unit
P 24	H

Recorded By	D SCHMITZ
Equipment	1 27 11
Education	

Witnessed By	D. COLIN WILSON
Witnessed By	LARRY NICHOLS

Ward	Count	Percentage
Ward 1	10	10.00%
Ward 2	10	10.00%
Ward 3	10	10.00%
Ward 4	10	10.00%
Ward 5	10	10.00%
Ward 6	10	10.00%
Ward 7	10	10.00%
Ward 8	10	10.00%
Ward 9	10	10.00%
Ward 10	10	10.00%
Ward 11	10	10.00%
Ward 12	10	10.00%
Ward 13	10	10.00%
Ward 14	10	10.00%
Ward 15	10	10.00%
Ward 16	10	10.00%
Ward 17	10	10.00%
Ward 18	10	10.00%
Ward 19	10	10.00%
Ward 20	10	10.00%
Ward 21	10	10.00%
Ward 22	10	10.00%
Ward 23	10	10.00%
Ward 24	10	10.00%
Ward 25	10	10.00%
Ward 26	10	10.00%
Ward 27	10	10.00%
Ward 28	10	10.00%
Ward 29	10	10.00%
Ward 30	10	10.00%
Ward 31	10	10.00%
Ward 32	10	10.00%
Ward 33	10	10.00%
Ward 34	10	10.00%
Ward 35	10	10.00%
Ward 36	10	10.00%
Ward 37	10	10.00%
Ward 38	10	10.00%
Ward 39	10	10.00%
Ward 40	10	10.00%
Ward 41	10	10.00%
Ward 42	10	10.00%
Ward 43	10	10.00%
Ward 44	10	10.00%
Ward 45	10	10.00%
Ward 46	10	10.00%
Ward 47	10	10.00%
Ward 48	10	10.00%
Ward 49	10	10.00%
Ward 50	10	10.00%
Ward 51	10	10.00%
Ward 52	10	10.00%
Ward 53	10	10.00%
Ward 54	10	10.00%
Ward 55	10	10.00%
Ward 56	10	10.00%
Ward 57	10	10.00%
Ward 58	10	10.00%
Ward 59	10	10.00%
Ward 60	10	10.00%
Ward 61	10	10.00%
Ward 62	10	10.00%
Ward 63	10	10.00%
Ward 64	10	10.00%
Ward 65	10	10.00%
Ward 66	10	10.00%
Ward 67	10	10.00%
Ward 68	10	10.00%
Ward 69	10	10.00%
Ward 70	10	10.00%
Ward 71	10	10.00%
Ward 72	10	10.00%
Ward 73	10	10.00%
Ward 74	10	10.00%
Ward 75	10	10.00%
Ward 76	10	10.00%
Ward 77	10	10.00%
Ward 78	10	10.00%
Ward 79	10	10.00%
Ward 80	10	10.00%
Ward 81	10	10.00%
Ward 82	10	10.00%
Ward 83	10	10.00%
Ward 84	10	10.00%
Ward 85	10	10.00%
Ward 86	10	10.00%
Ward 87	10	10.00%
Ward 88	10	10.00%
Ward 89	10	10.00%
Ward 90	10	10.00%
Ward 91	10	10.00%
Ward 92	10	10.00%
Ward 93	10	10.00%
Ward 94	10	10.00%
Ward 95	10	10.00%
Ward 96	10	10.00%
Ward 97	10	10.00%
Ward 98	10	10.00%
Ward 99	10	10.00%
Ward 100	10	10.00%

Bin No	From	To
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ONE	12 25"	0'	305'
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TWO	7 875"	305'	TD
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[illegible]

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[illegible]

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

OAKLEY,
SOUTH TO GOLD RD, WEST TO 390 RD, SOUTH TO ELK RD,
WEST TO 340, 3/4 SOUTH, WEST INTO

Log Measured From: KELLY BUSHING 7 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: LARRY NICHOLSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 60	degF 60	Off	ft 4671

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD	28.43			CDL-M&W (96-916)	8.50	4.00	250.00
	DCAL						
	SSD						
MCAL	19.83			ML-PSIML (PSI-01)	7.58	4.00	65.00
	MI			GO Micro log tools converted to Simplec electronics			
	MN						
RLL3F	15.80						
RLL3	15.80						
CILD	8.00			DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: concorde_mcdaniel 1-13.db: field/well/STKML/pass1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MAIN PASS

Database File concorde_mcdaniel 1-13.db
Dataset Pathname STKML/pass5.1
Presentation Format _cdl
Dataset Creation Sat May 04 23:53:24 2019
Charted by Depth in Feet scaled 1:600

0 GAMMA RAY (GAPI) 150
6 DCAL (in) 16

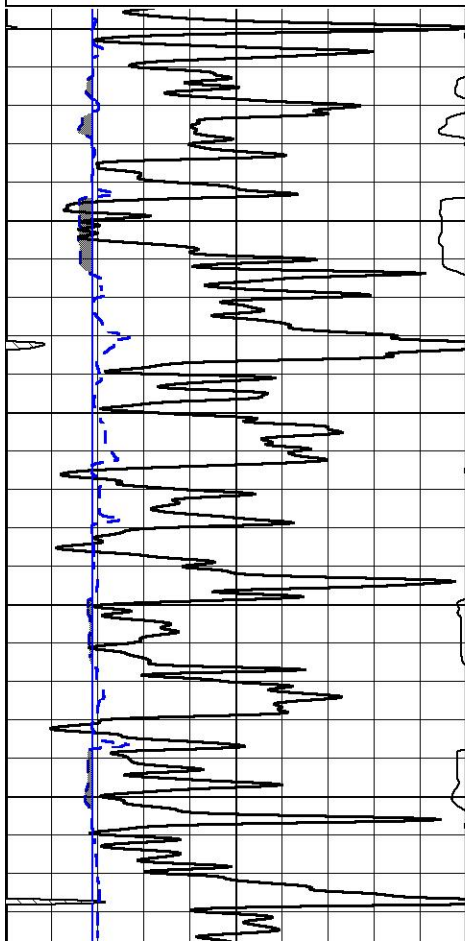
COMPENSATED DENSITY
(2.71 MA)

30 (pu) -10

2 BULK DENSITY (g/cc) 3

15000 LINE TENSION (lb) 0

-0.25 CORRECTION (g/cc) 0.25



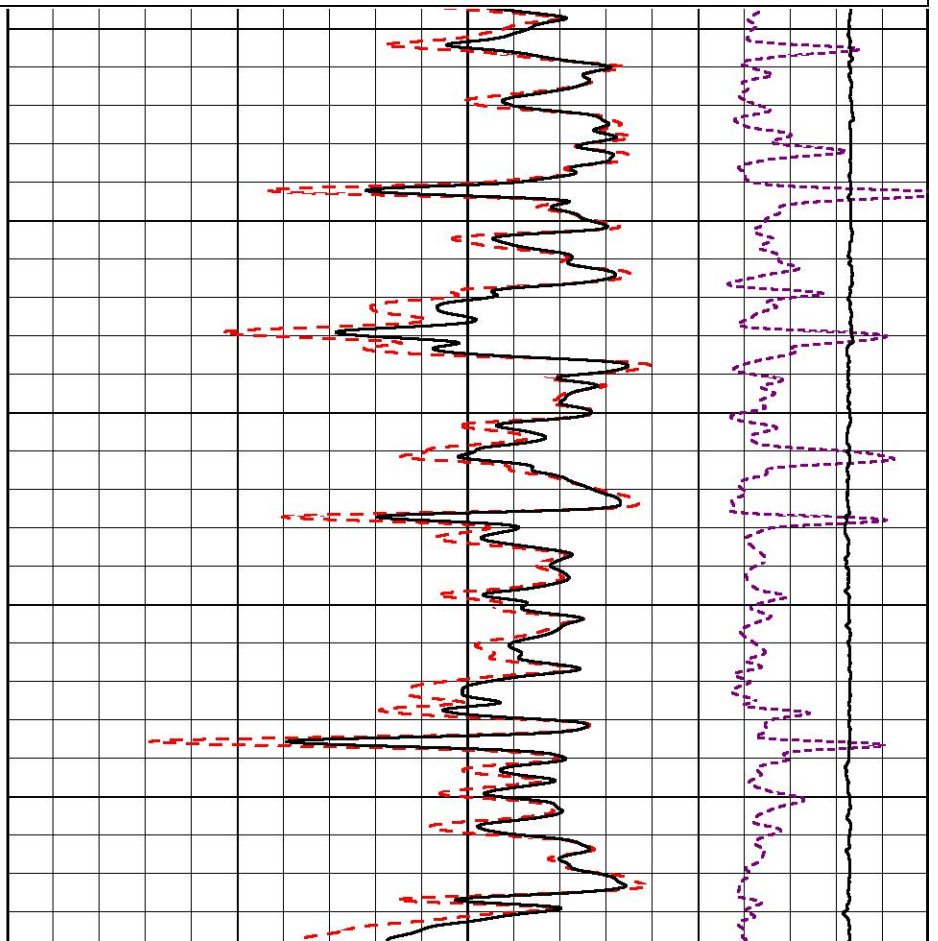
3500

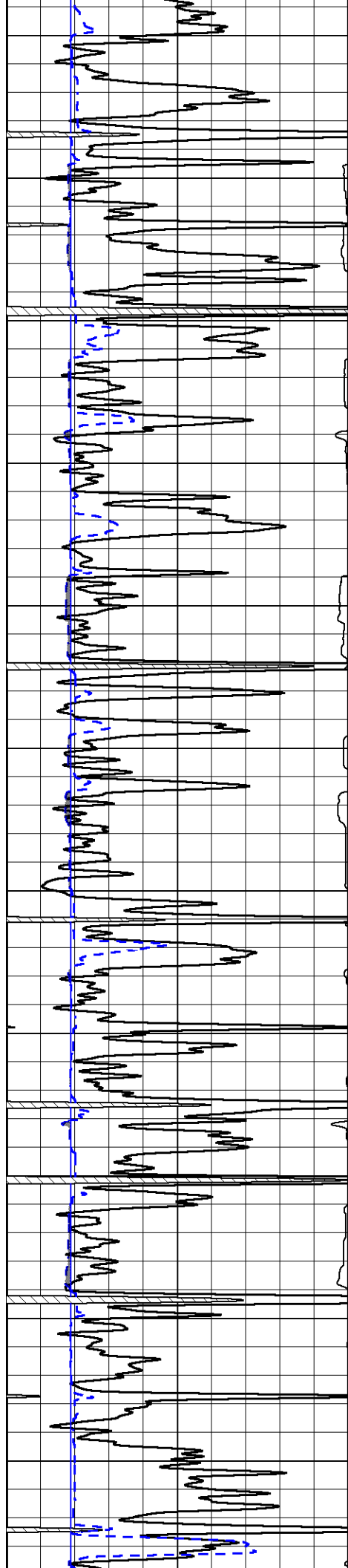
3550

3600

3650

3700





3750

3800

3850

3900

3950

4000

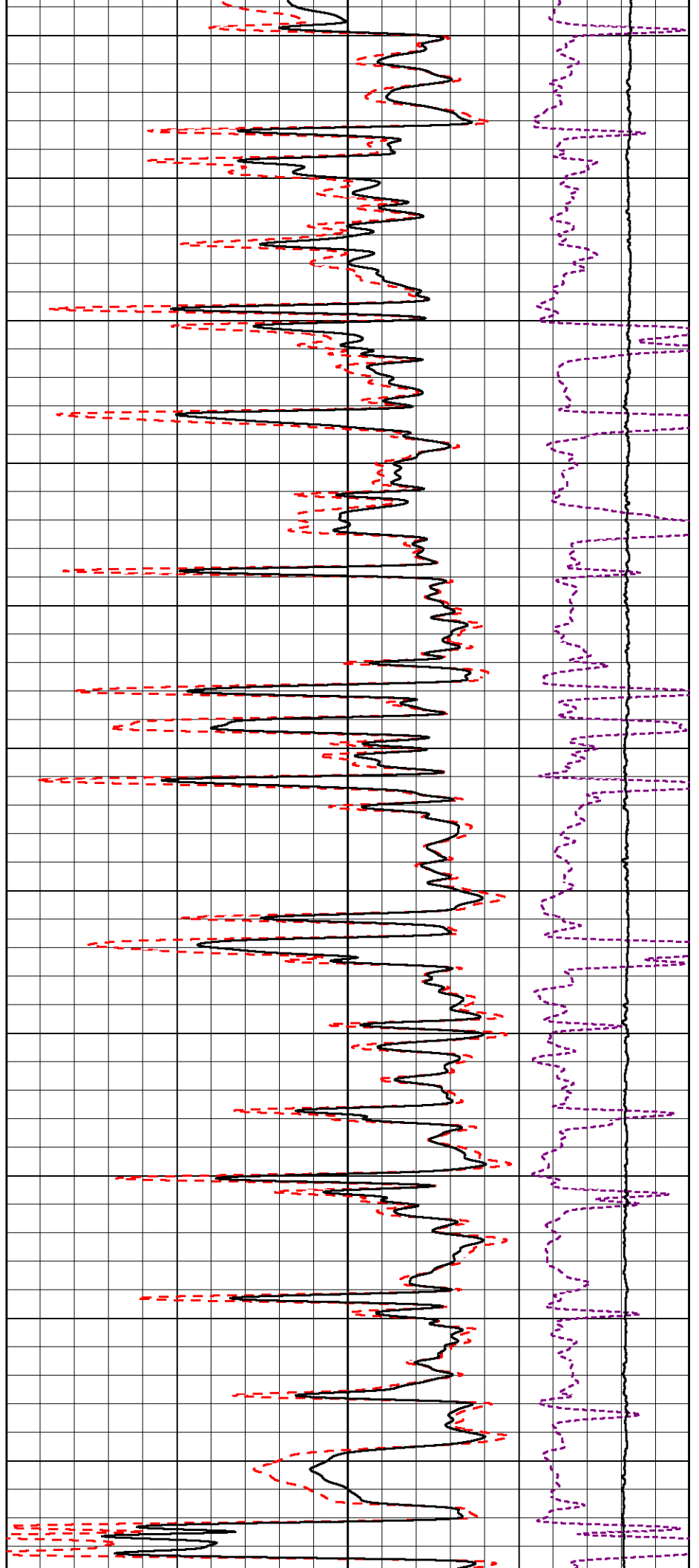
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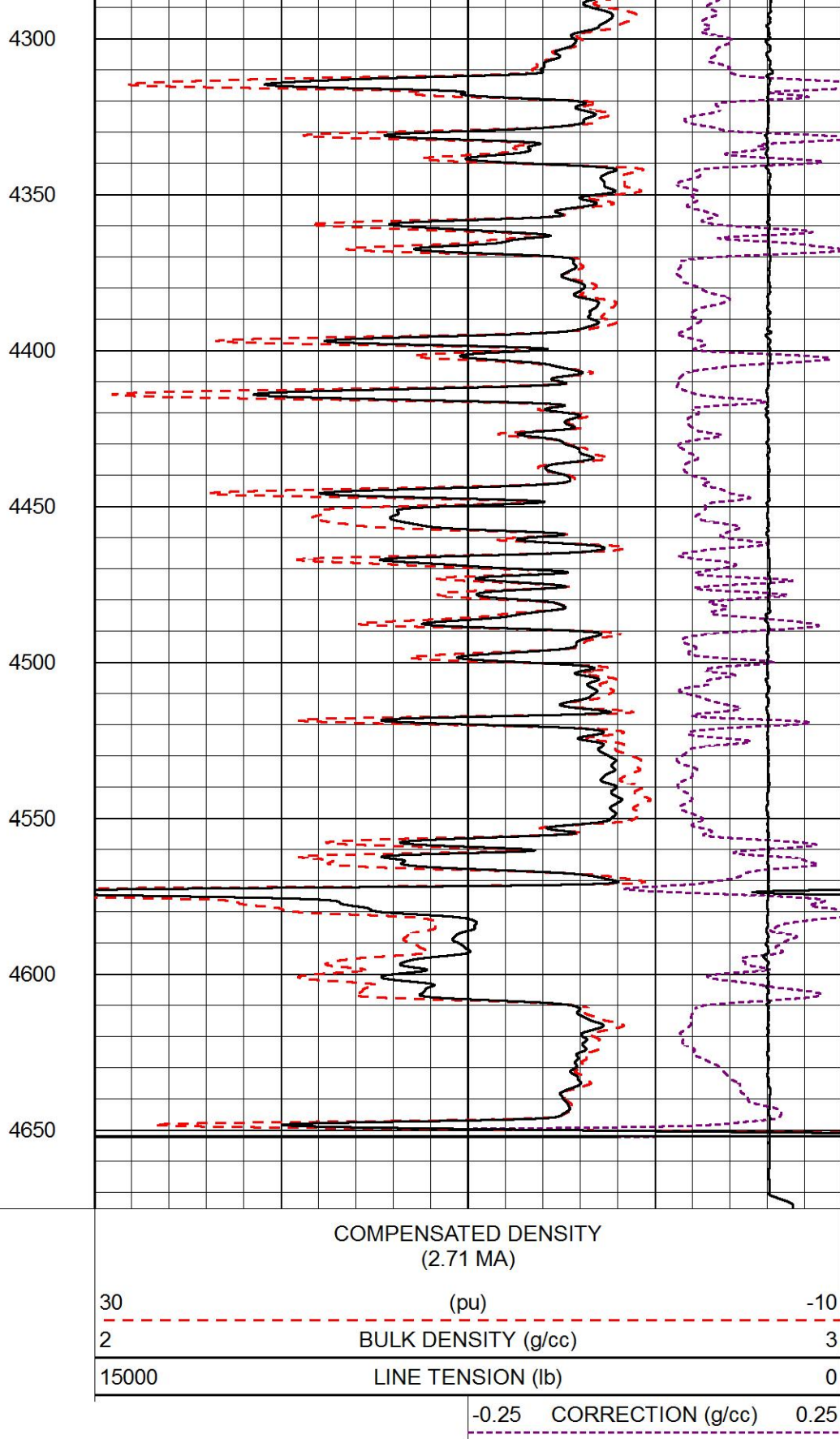
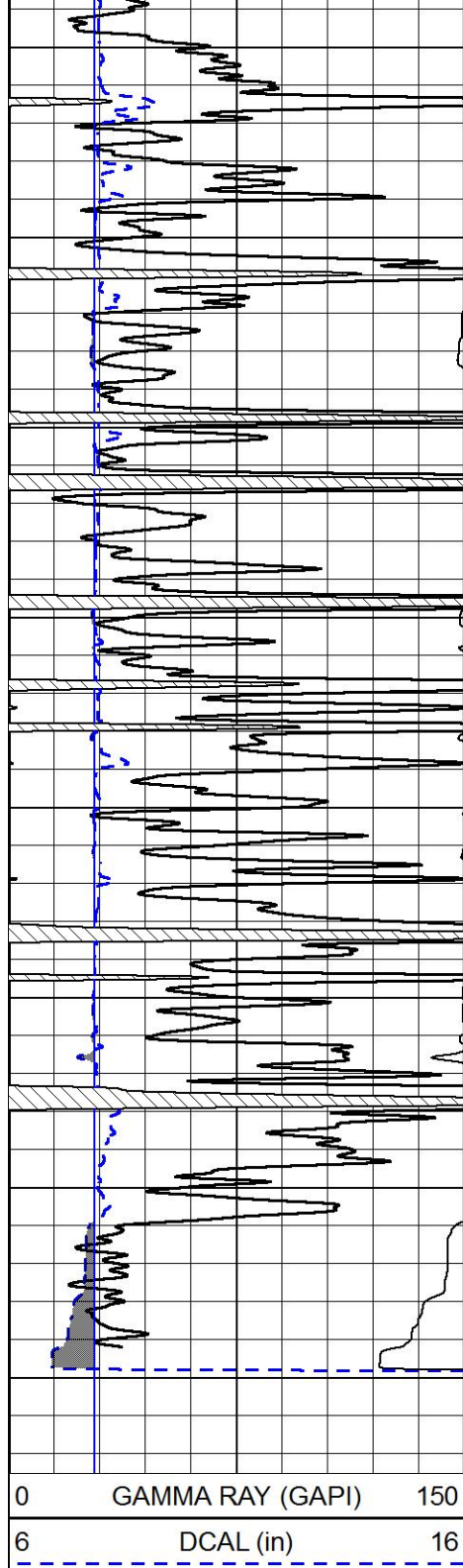
4100

4150

4200

4250

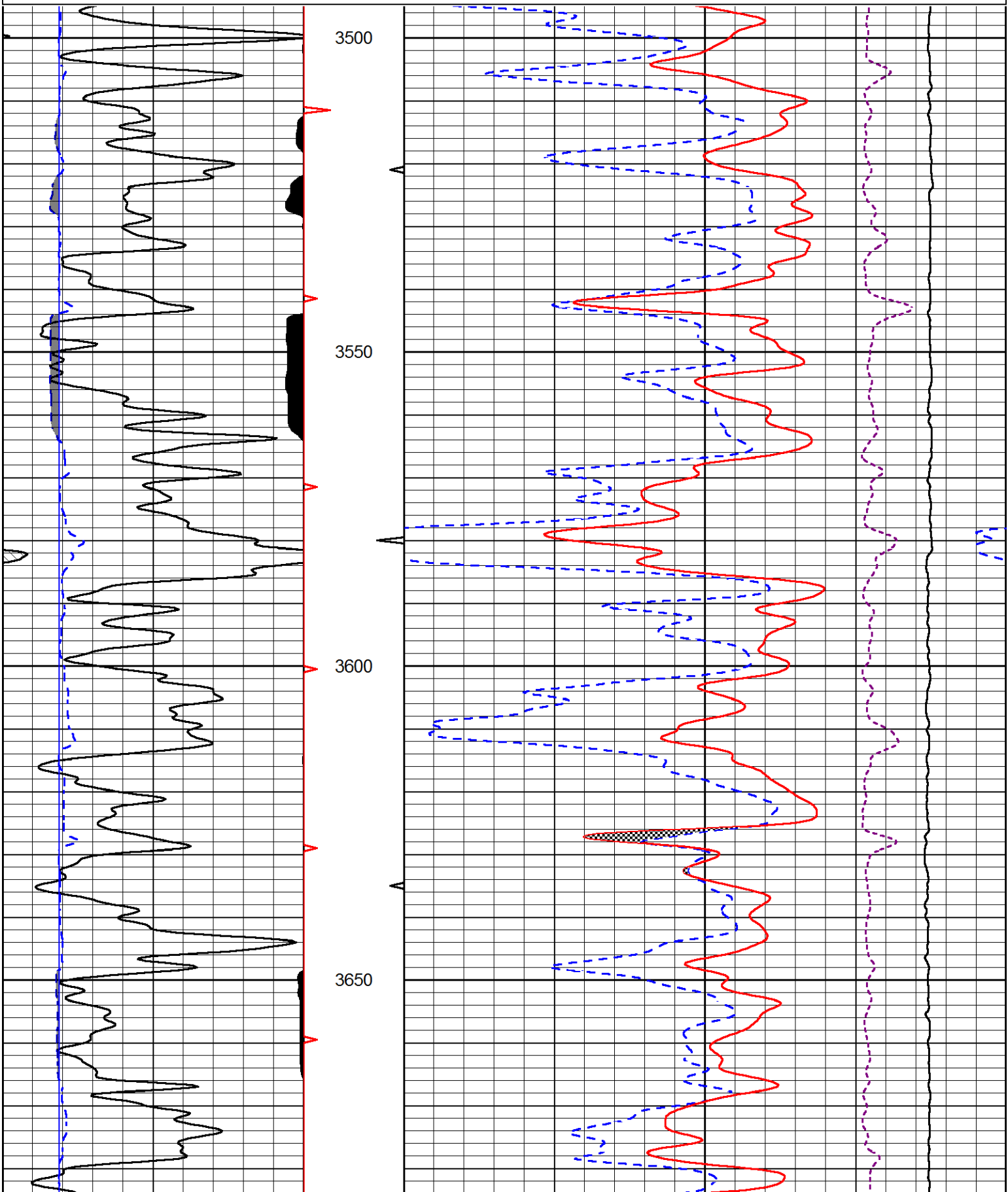


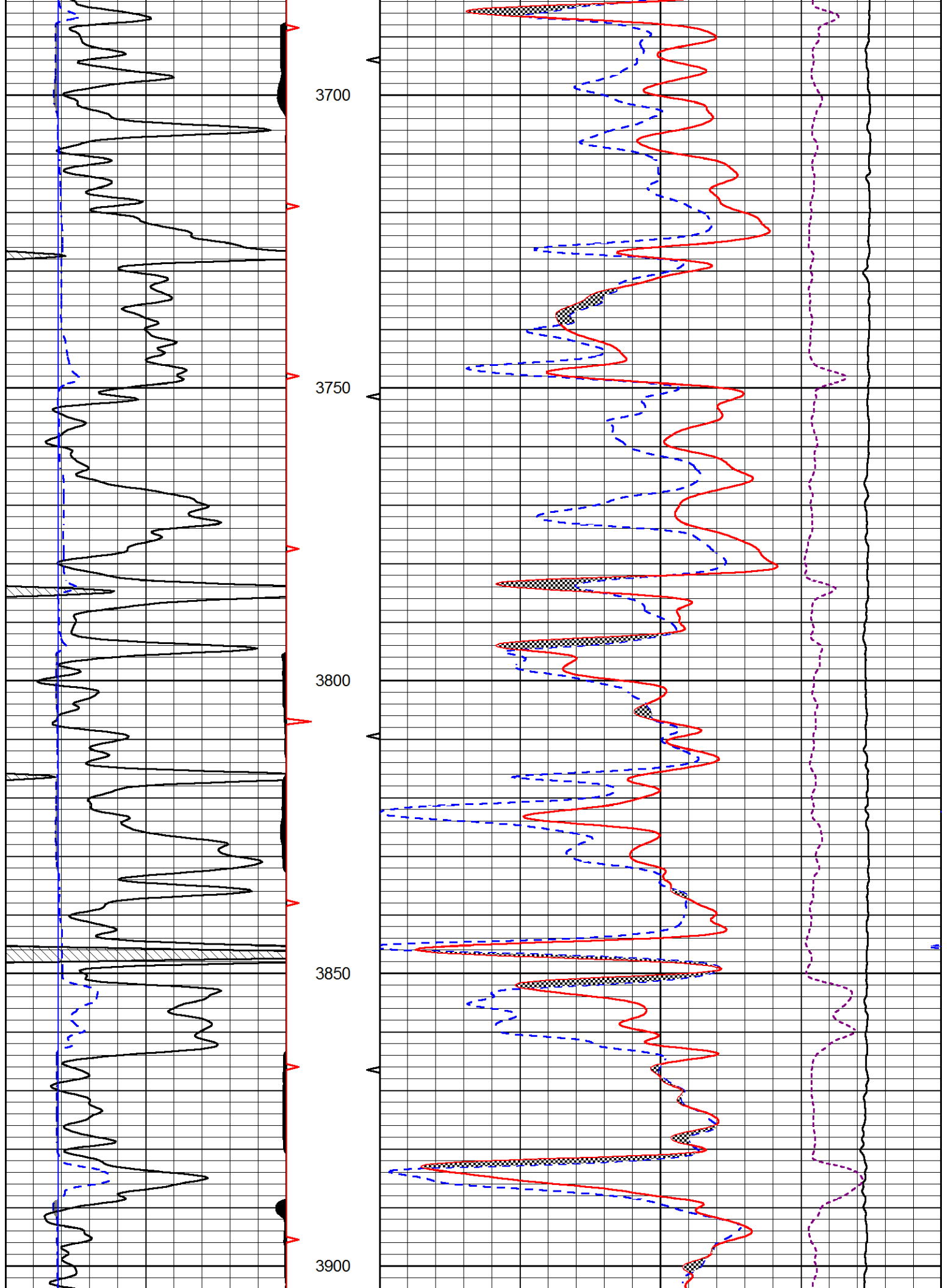


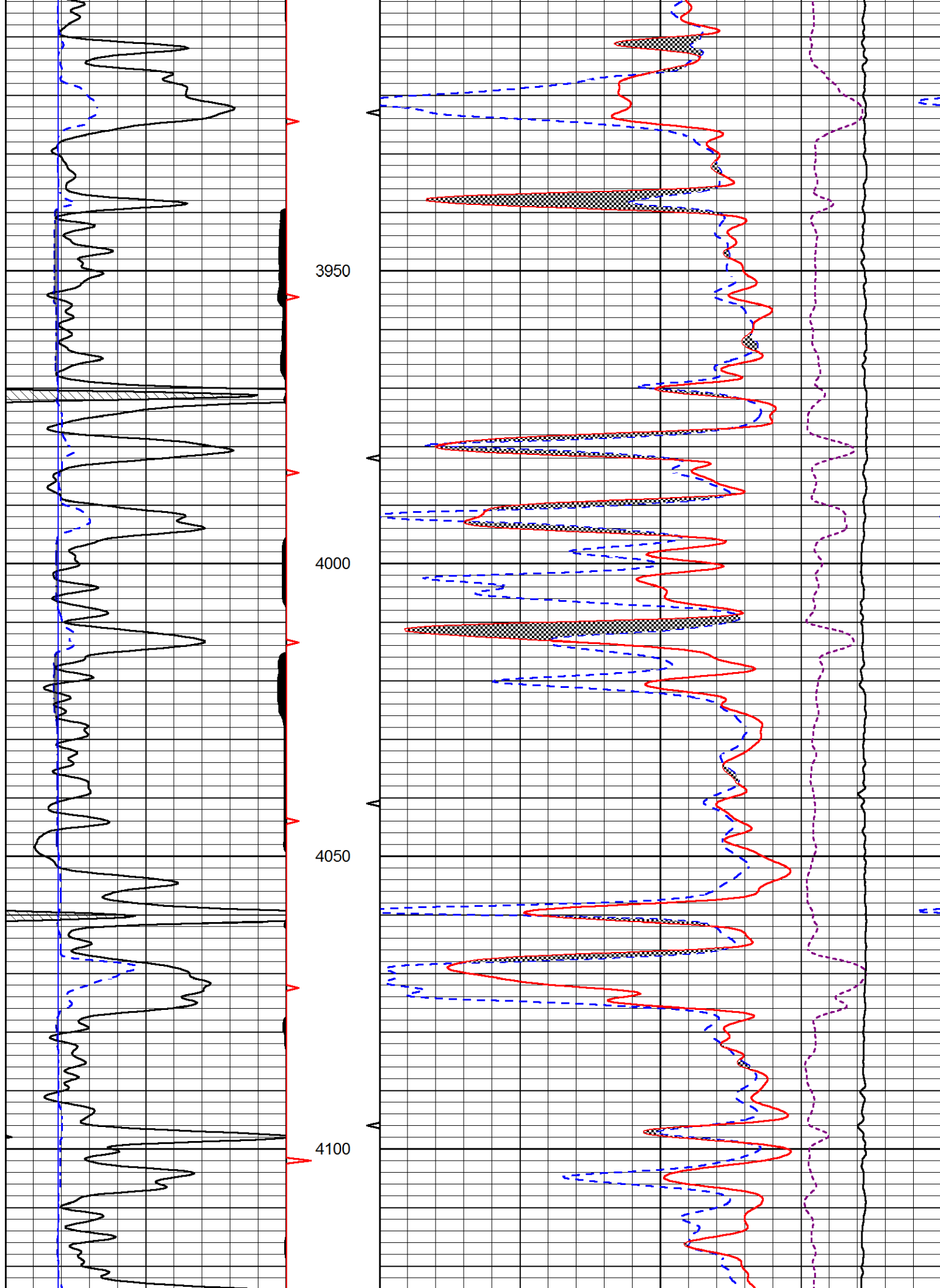
MAIN PASS

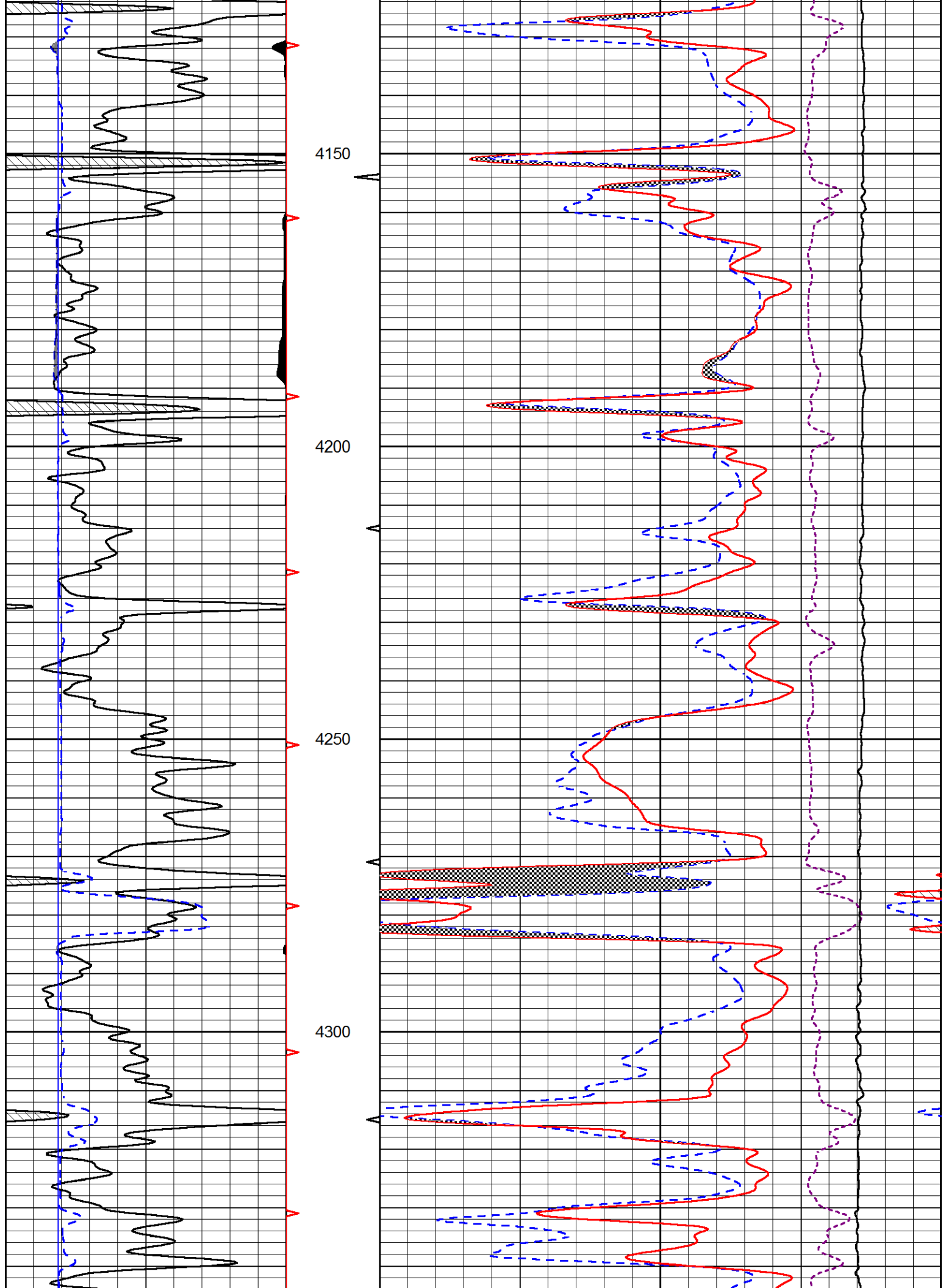
Database File concorde_mcdaniel 1-13.db
 Dataset Pathname STKML/pass5.1
 Presentation Format CNL S-1

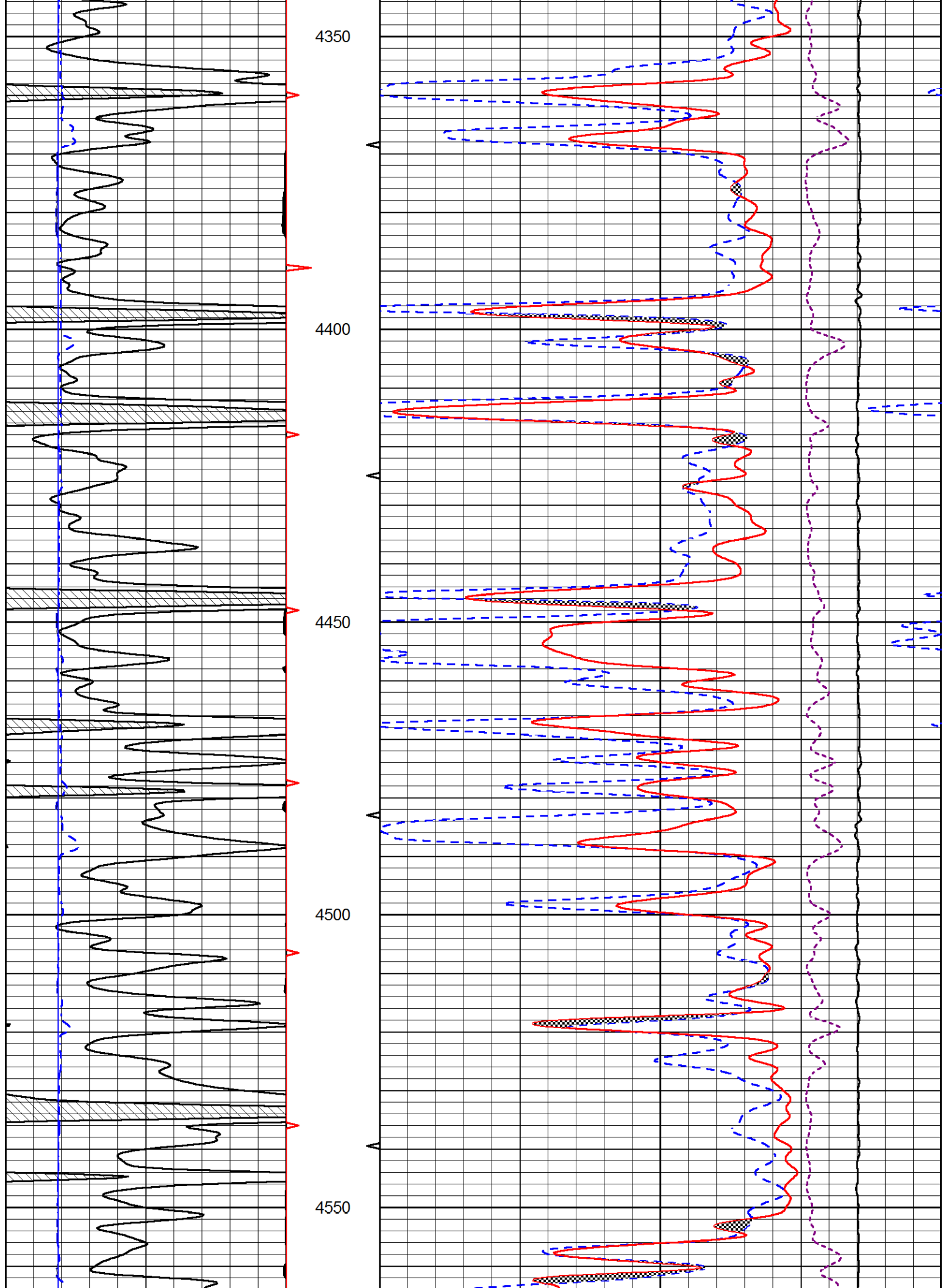
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			10000	LINE TENSION (lb)	0
			-0.75 CORRECTION (g/cc) 0.75		

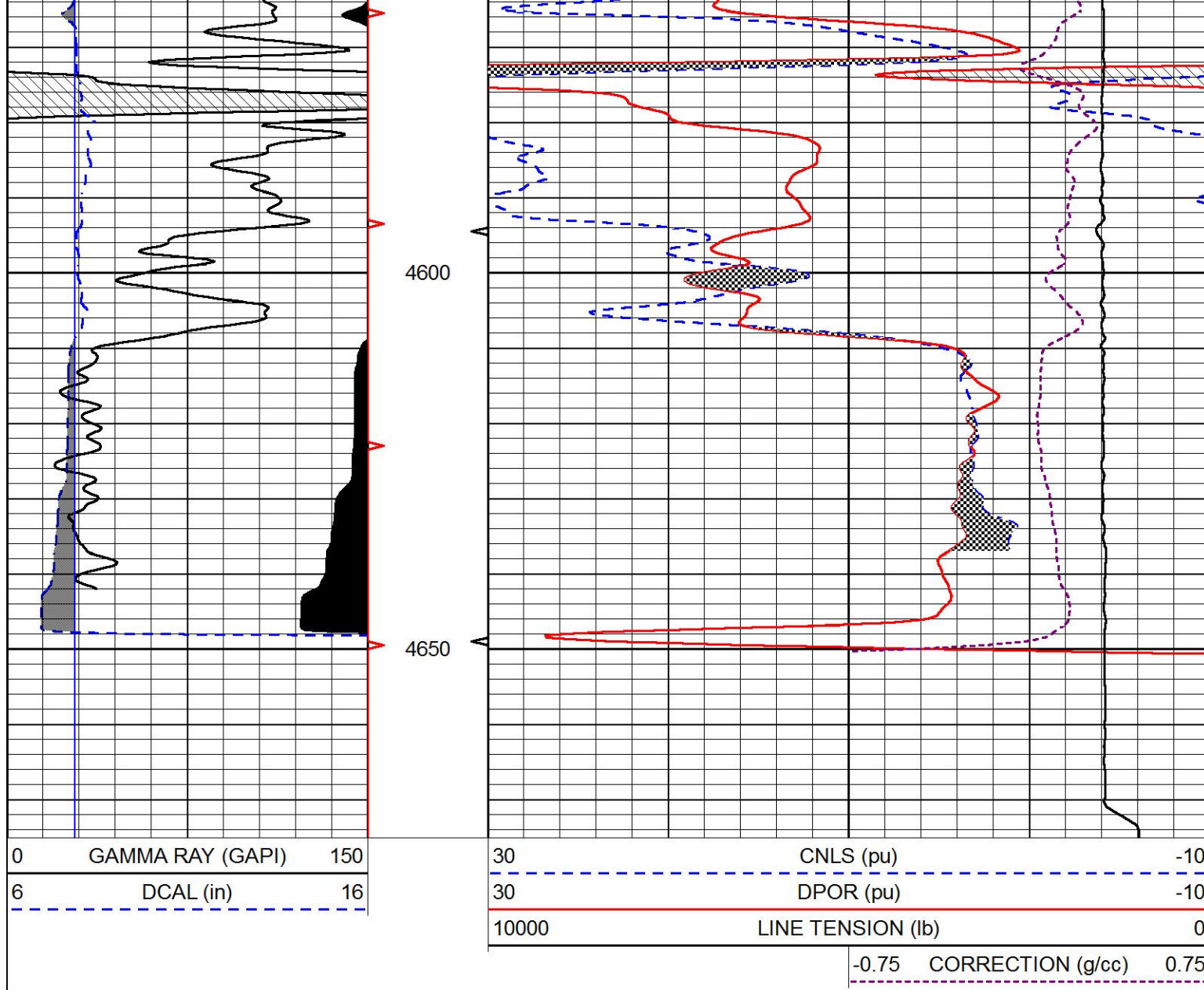






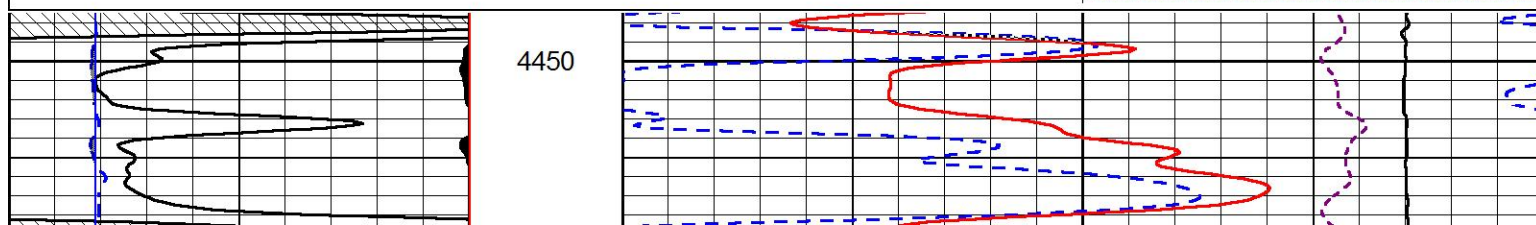
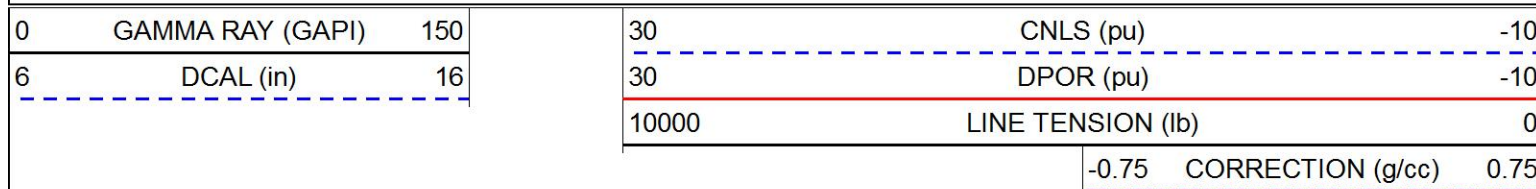


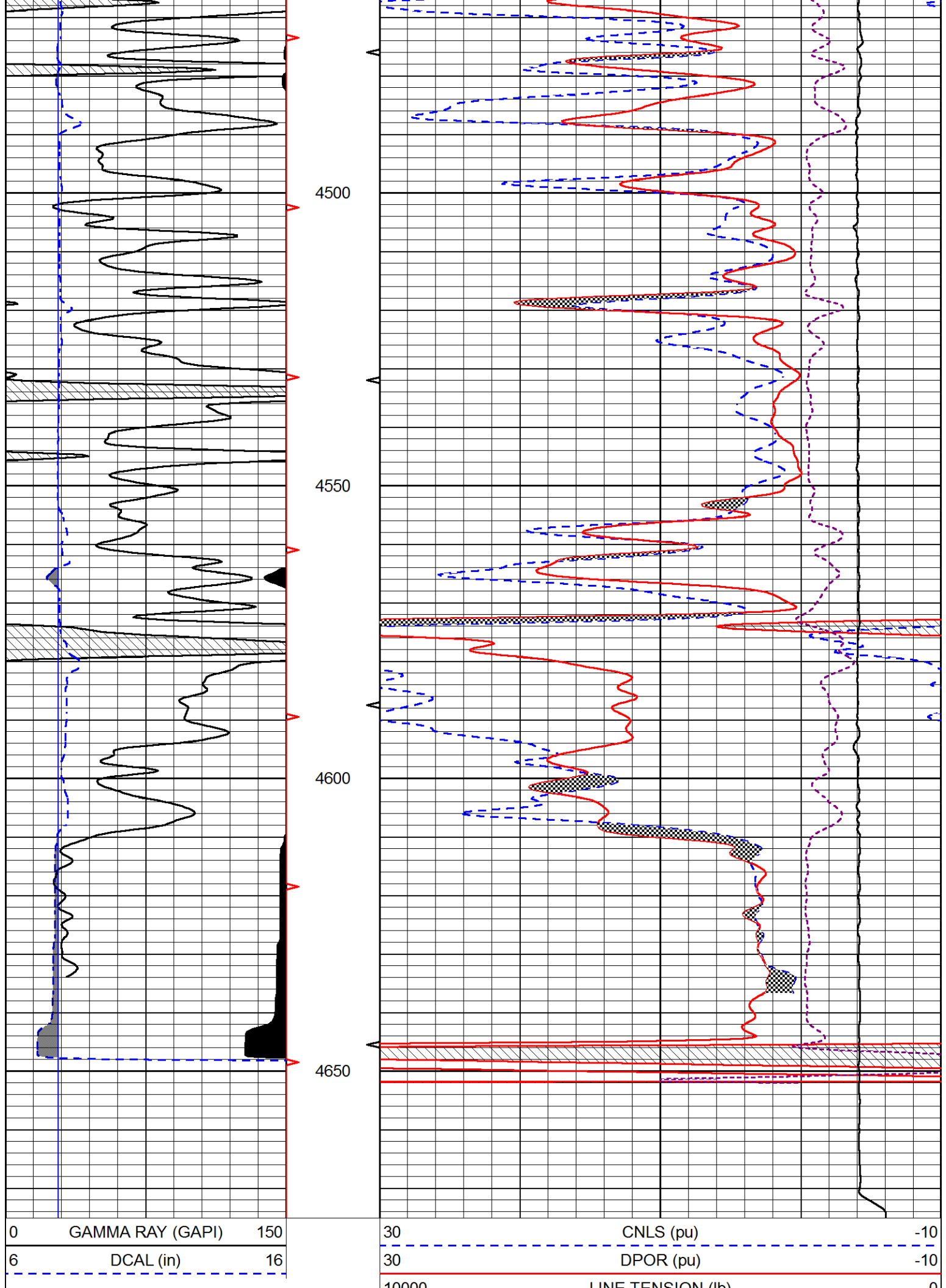




REPEAT SECTION

Database File: concorde_mcdaniel 1-13.db
 Dataset Pathname: STKML/pass3.1
 Presentation Format: _CNDLS~1
 Dataset Creation: Sat May 04 23:39:23 2019
 Charted by: Depth in Feet scaled 1:240





10000	LINE TENSION (lb)	0
	-0.75 CORRECTION (g/cc)	0.75

Calibration Report	
Database File	concorde_mcdaniel 1-13.db
Dataset Pathname	STKML/pass4.1
Dataset Creation	Sat May 04 23:41:56 2019

Dual Induction Calibration Report

Serial-Model:	967 (HT)-PSI HIGH TEMP
Calibration Performed:	Fri Apr 12 09:37:07 2019

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-14.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-37.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Sun Feb 24 09:53:40 2019

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	43000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7000

Compensated Density Calibration Report
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Serial-Model:	96-916-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Wed Mar 27 11:00:53 2019

Master Calibration						
	Density		Far Detector		Near Detector	
Magnesium	1.755	g/cc	8943.64	10054.60	cps	
Aluminum	2.665	g/cc	1595.61	6242.82	cps	
Spine Angle = 74.54			Density/Spine Ratio = 0.509			
	Size		Reading			
Small Ring	6.00	in	1.75			
Large Ring	16.00	in	1.46			

Compensated Neutron Calibration Report
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Serial Number:	207-MW
Tool Model:	M&W
Calibration Performed:	WED FEB 13 10:30:30 2019

Detector	Readings	Target	Normalization
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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:	233-M&W	
Tool Model:	M&W	
Calibration Performed:	Fri Feb 07 01:42:40 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps

 PIONEER Pioneer Energy Services	Company	CONCORDE RESOURCES CORP
	Well	MCDANIEL #1-13
	Field	WILDCAT
	County	LOGAN
	State	KANSAS