



PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company VAL ENERGY, INC.
Well FLYING S NO.1-10
Field LEVANT
County THOMAS
State KANSAS

Company VAL ENERGY, INC.
Well FLYING S NO.1-10
Field LEVANT
County THOMAS
State KANSAS

Location: API #: 15-193-21041-00-00

Other Services

SEC 10 TWP 8S RGE 35W
475' FNL & 1597' FWL

DIL/MEL

Permanent Datum GROUND LEVEL Elevation 3312'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3317'
D.F. N/A
G.L. 3312'

Date 5/9/2019

Run Number ONE

Type Log CNL/CDL

Depth Driller 4870'

Depth Logger 4872'

Bottom Logged Interval 4844'

Top Logged Interval 3900'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 6,000

Density 9.3

Level FULL

Max. Rec. Temp. F 125 DEG. F.

Operating Rig Time 4 HOURS

Equipment -- Location P-24 HAYS

Recorded By M. HISS

Witnessed By TIM PRIEST

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
---------	-----	------	----	------	------	------	----

ONE	12.25"	00'	262'	8.625"	24#	00'	262'
-----	--------	-----	------	--------	-----	-----	------

TWO	7.875"	262'	TD				
-----	--------	------	----	--	--	--	--

<<< Fold Here >>>

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.

LEVANT EXIT I-70
NORTH TO R ROAD, 3/4 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: M. HISS
Operator: I. MABB
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: TIM PRIEST
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 125	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 5	mmho/m 5	mV 360	degF 50	Off	ft 4872

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	28.42					
	SSD	27.93					
MCAL	19.83			ML-PSIML (PSI-01)	7.58	4.00	65.00
	MI	19.83		GO Micro log tools converted to Simplec electronics			
	MN	19.83					
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: val_flyings_#1_10.db: field/well/STACKMEL/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

**PIONEER**

Pioneer Energy Services

MAIN PASS

Database File val_flyings_#1_10.db
Dataset Pathname STACKMEL/pass3.1
Presentation Format _cdl
Dataset Creation Thu May 09 23:06:49 2019
Charted by Depth in Feet scaled 1:600

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

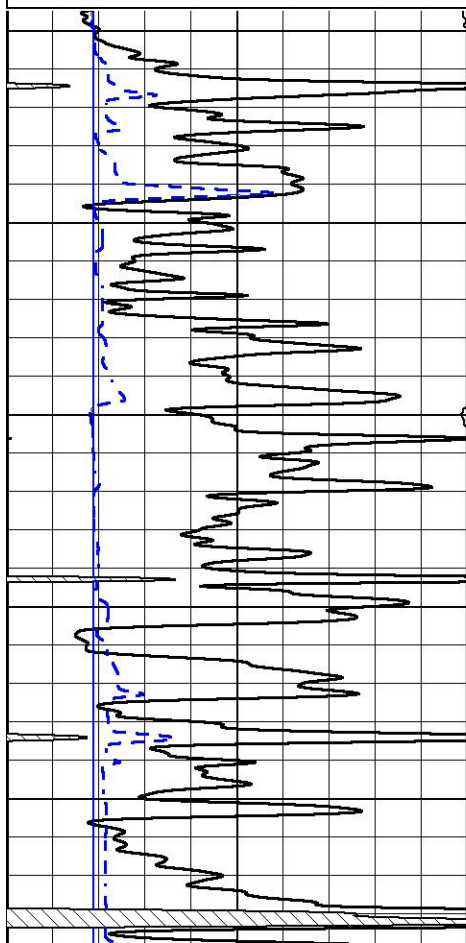
COMPENSATED DENSITY
(2.71 MA)

30 (pu) -10

2 BULK DENSITY (g/cc) 3

15000 LINE TENSION (lb) 0

-0.25 CORRECTION (g/cc) 0.25



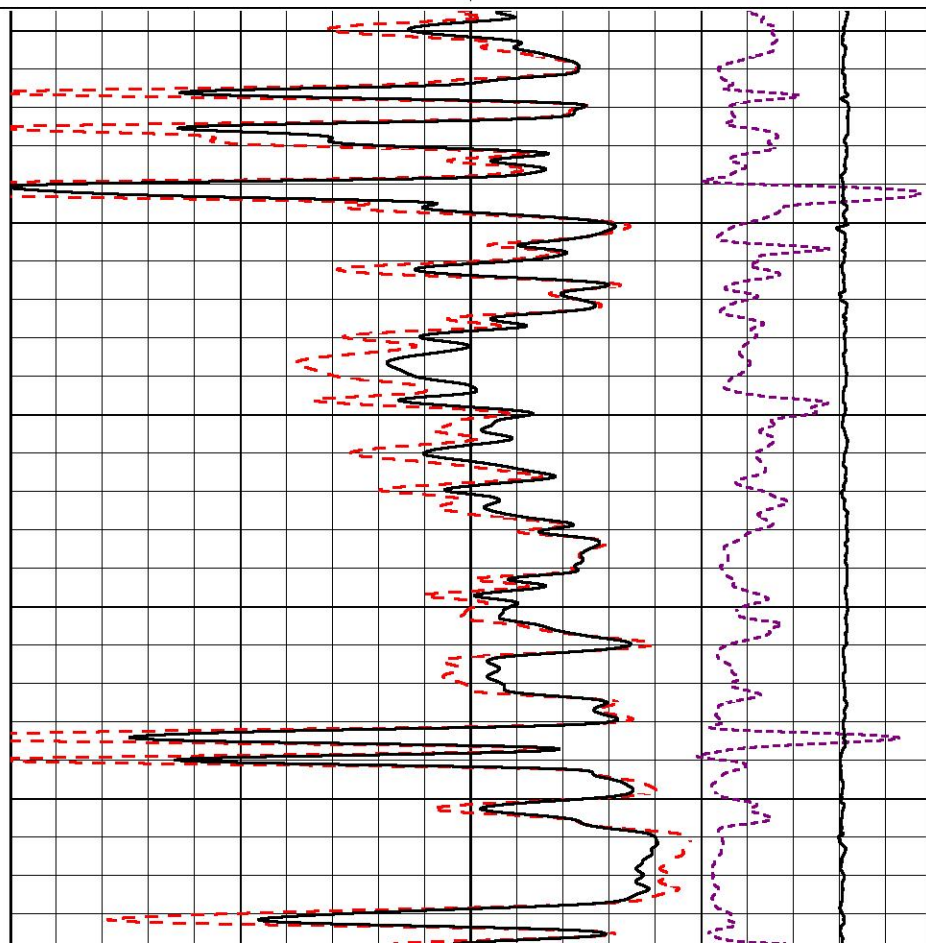
3900

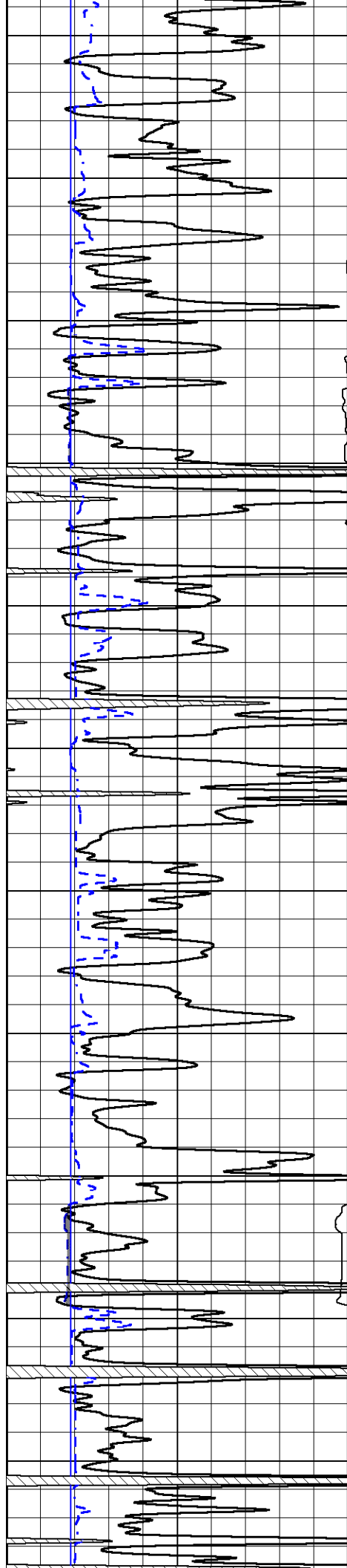
3950

4000

4050

4100





4150

4200

4250

4300

4350

4400

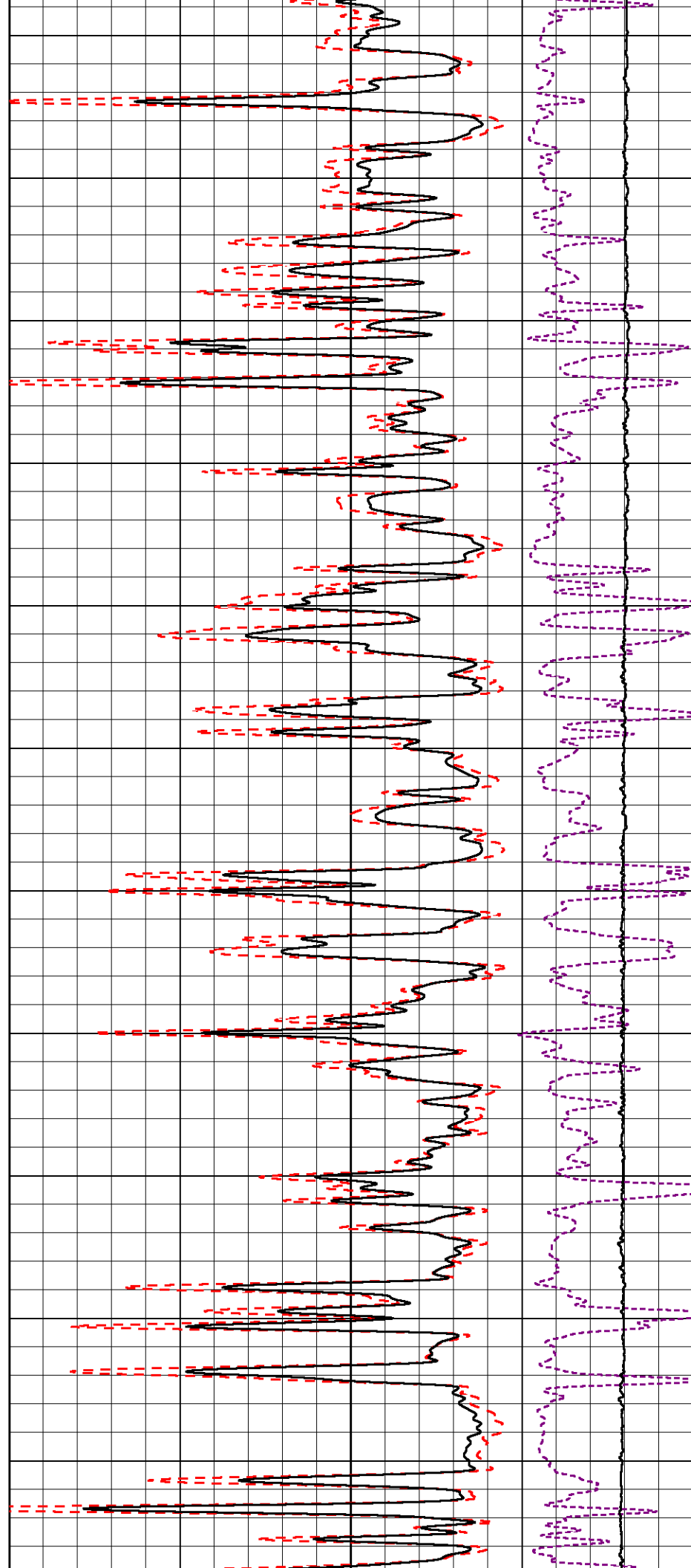
4450

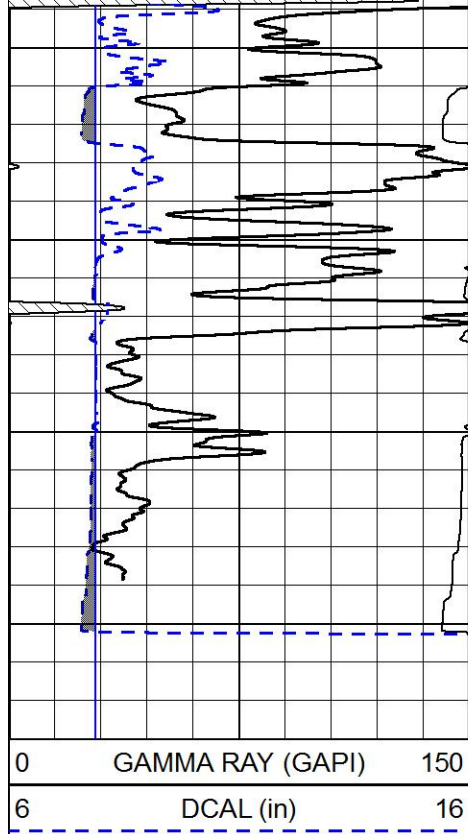
4500

4550

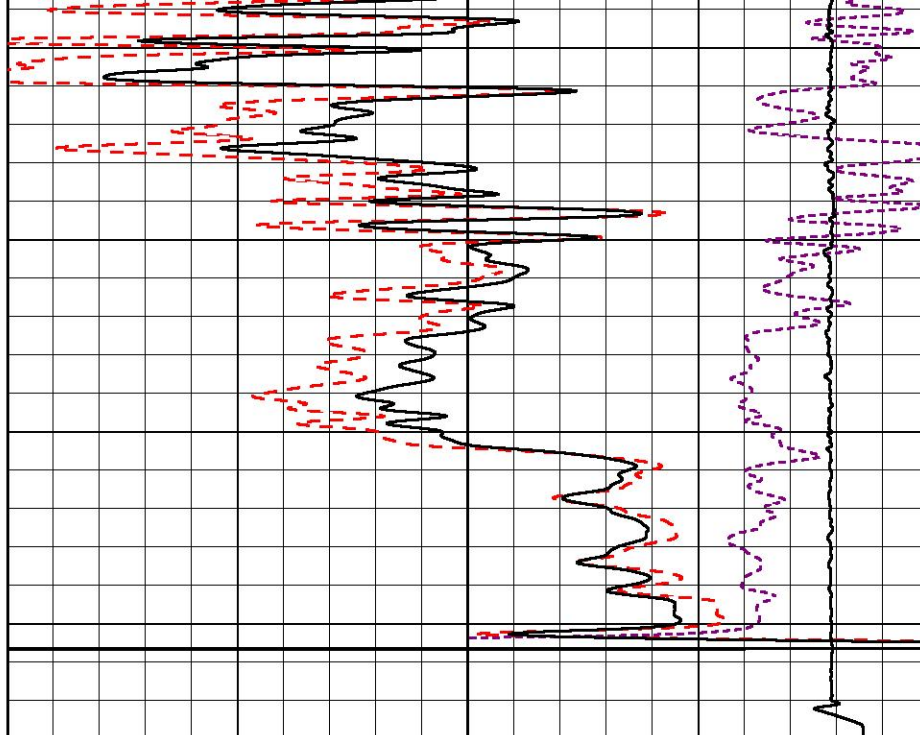
4600

4650





4700
4750
4800
4850



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

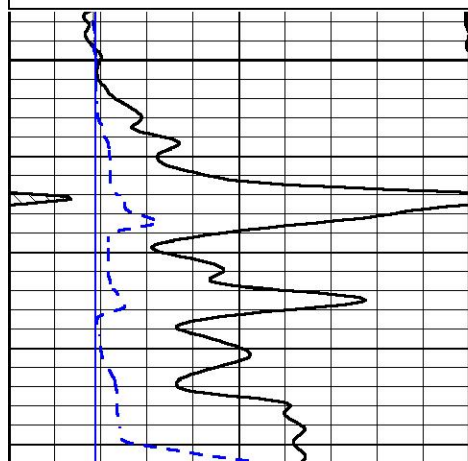
PIONEER
Pioneer Energy Services

MAIN PASS

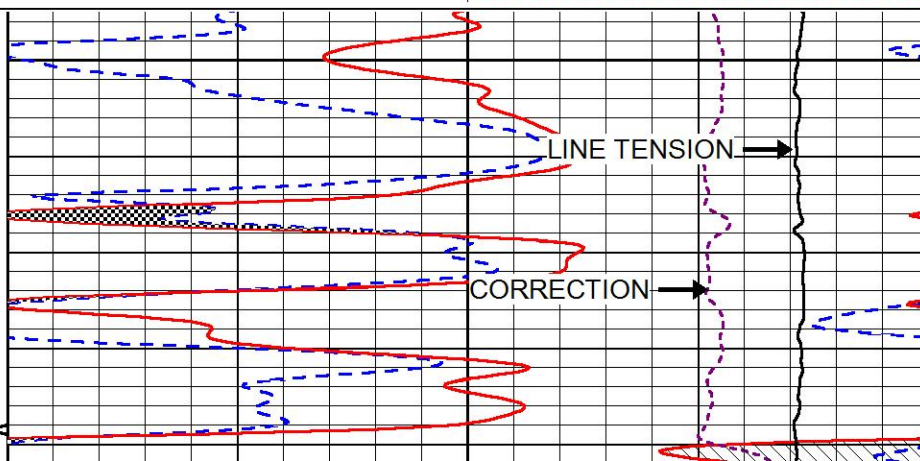
Database File val_flyings_#1_10.db
Dataset Pathname STACKMEL/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Thu May 09 23:06:49 2019
Charted by Depth in Feet scaled 1:240

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

30 CNLS (pu) -10
30 DPOR (pu) -10
10000 LINE TENSION (lb) 0
-0.75 CORRECTION (g/cc) 0.75

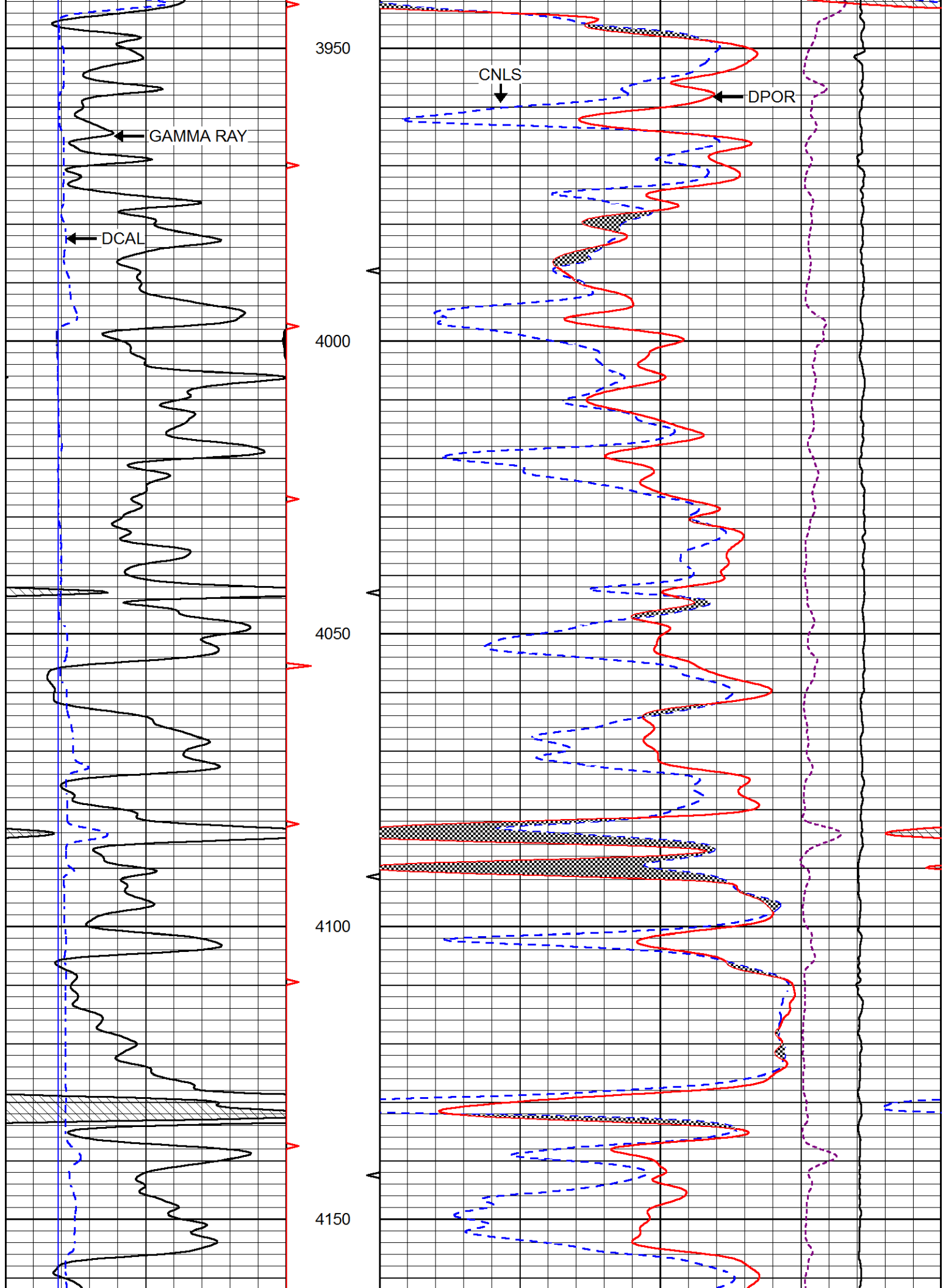


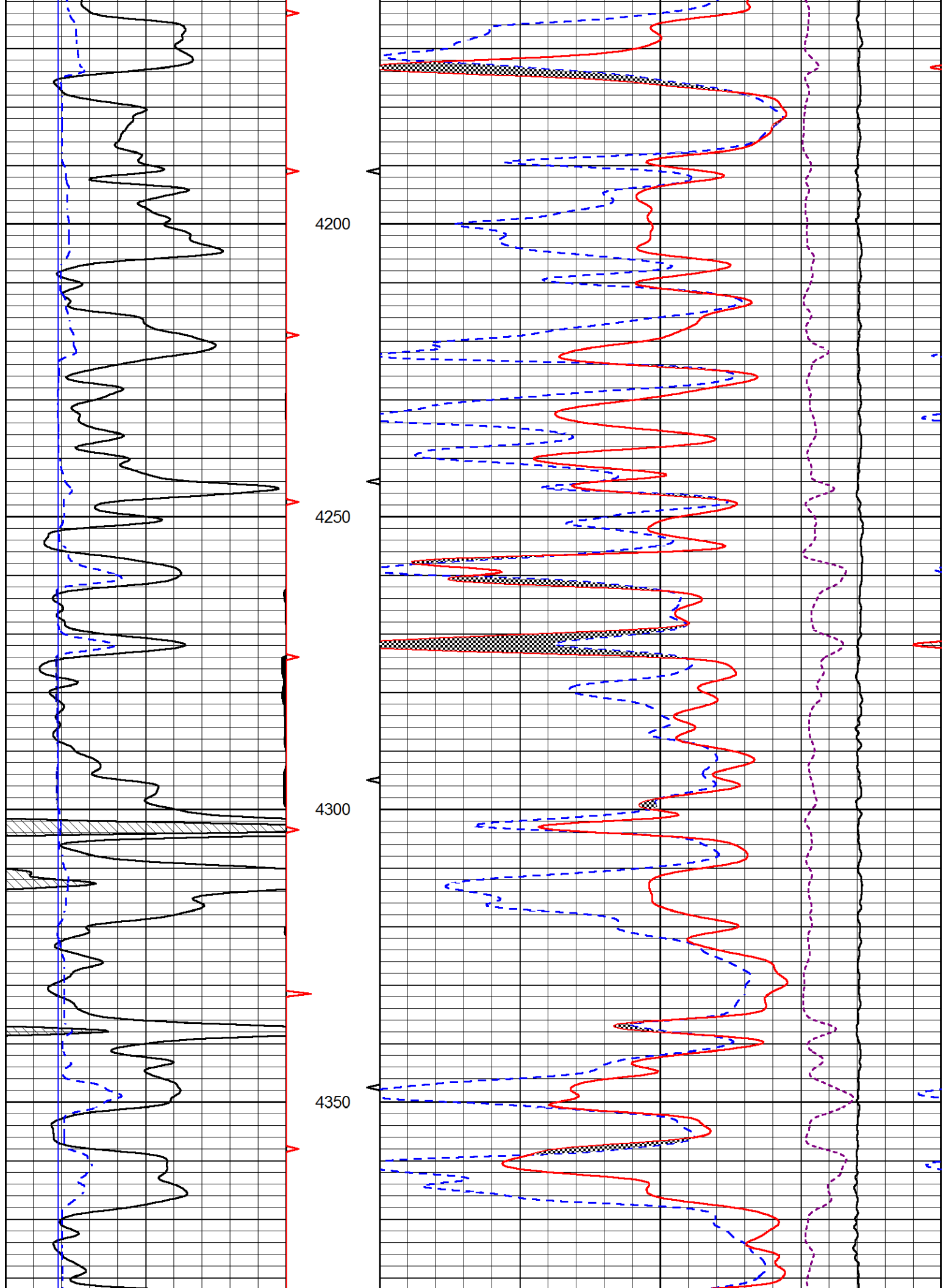
3900

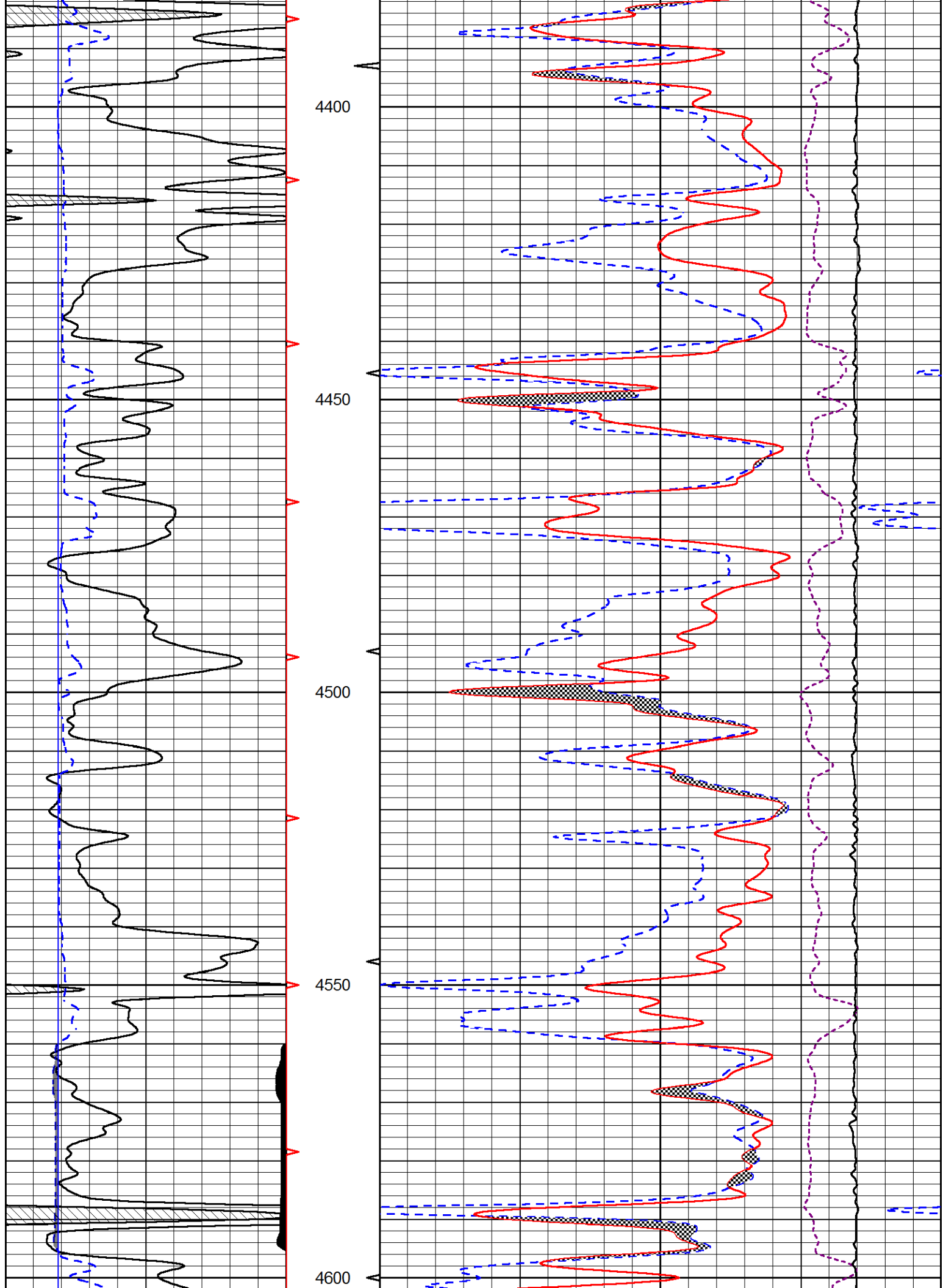


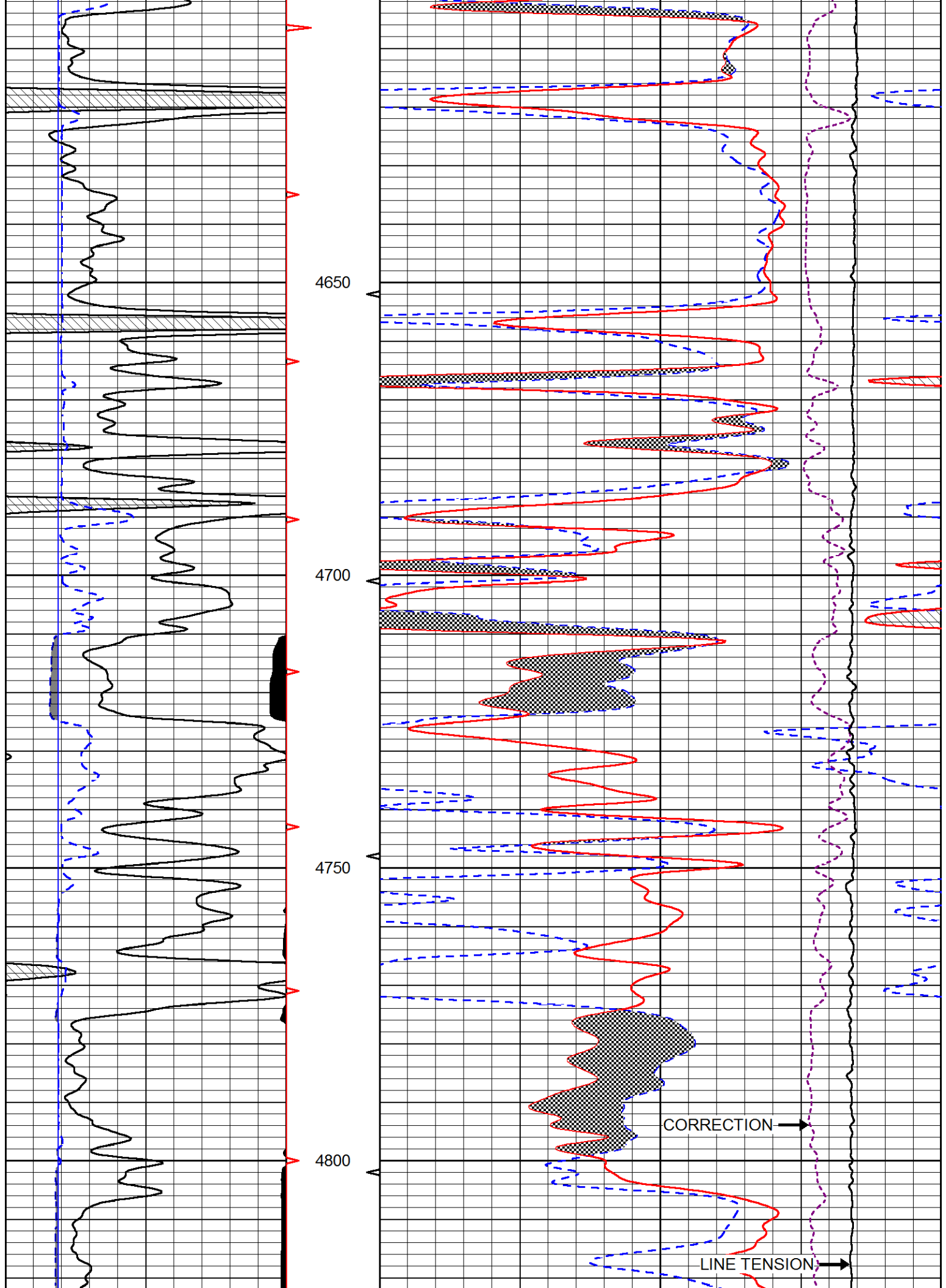
LINE TENSION →

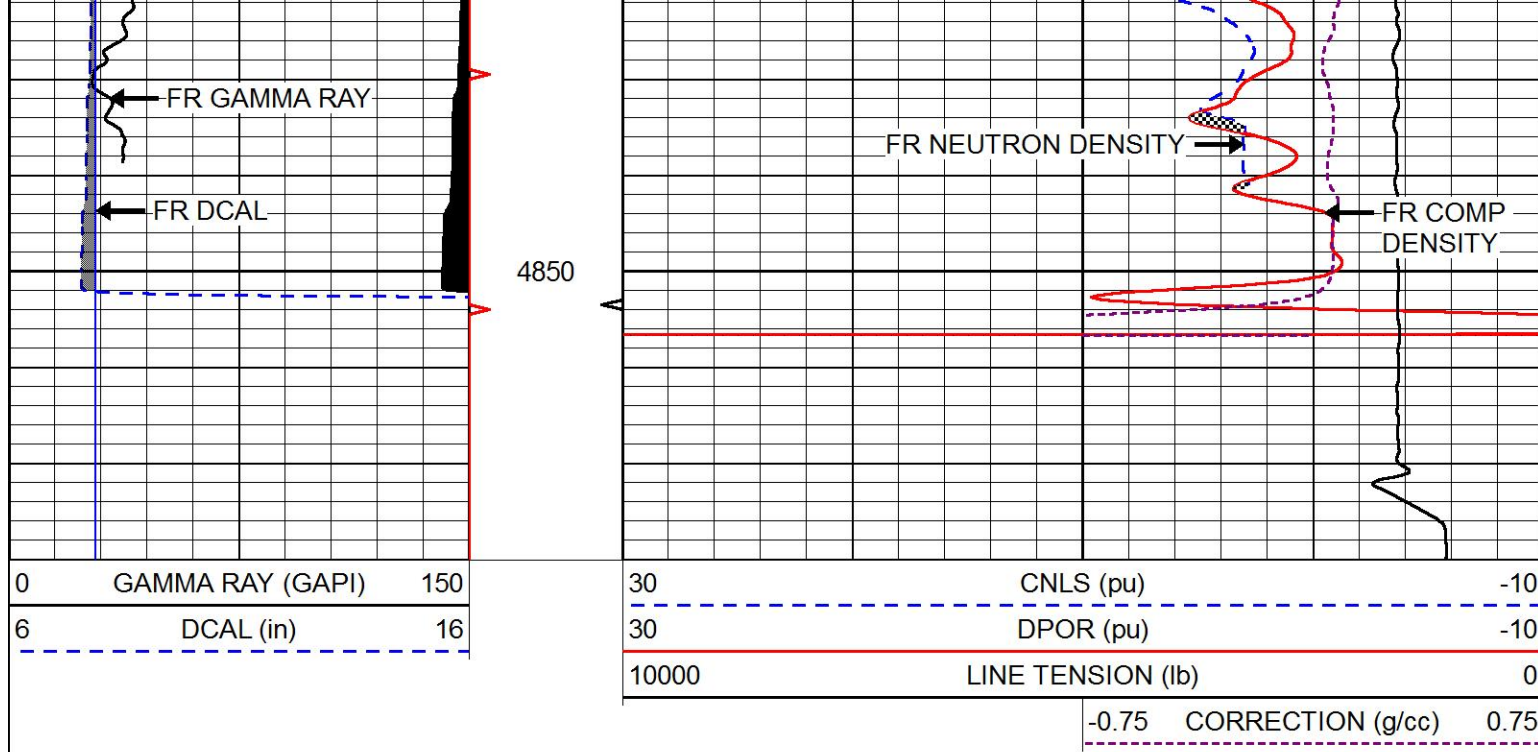
CORRECTION →





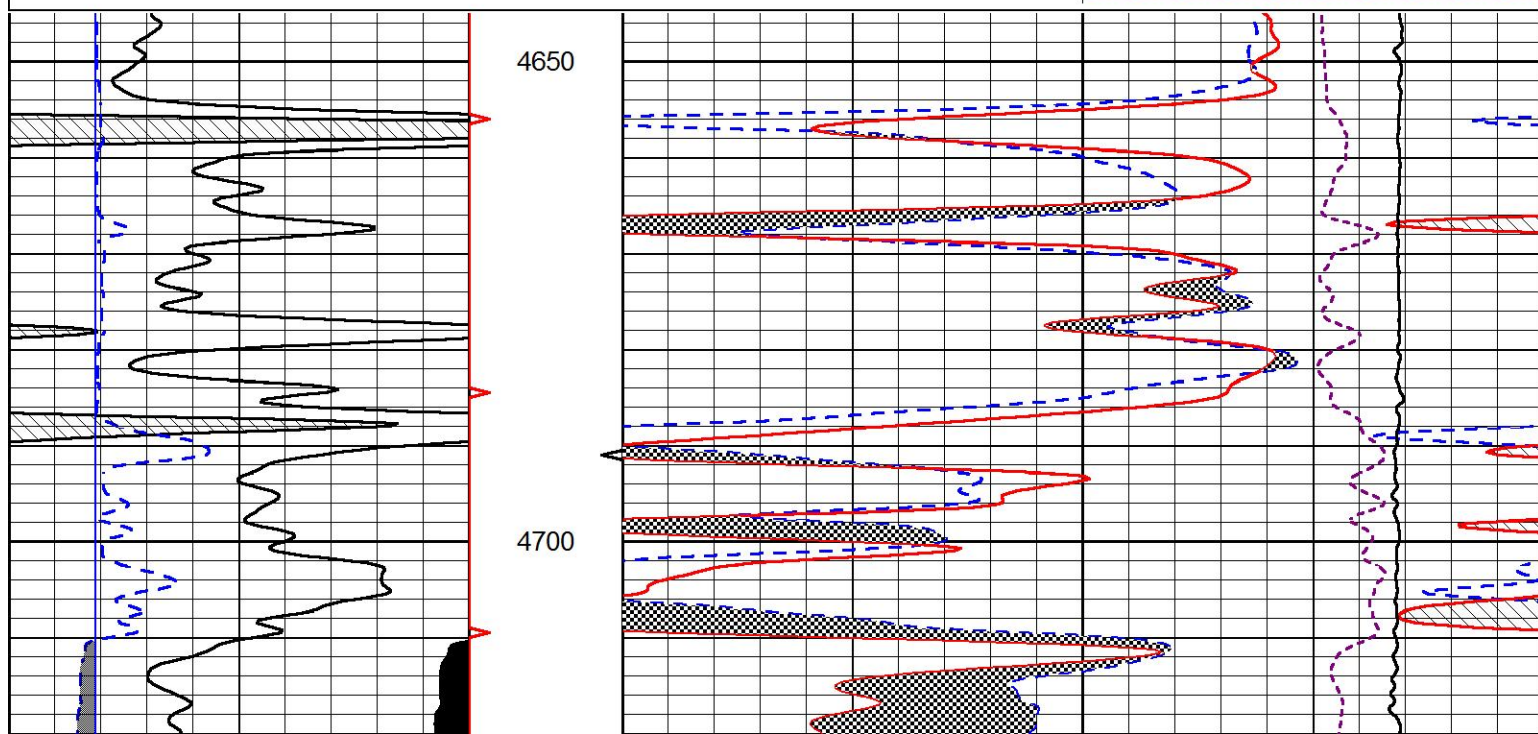
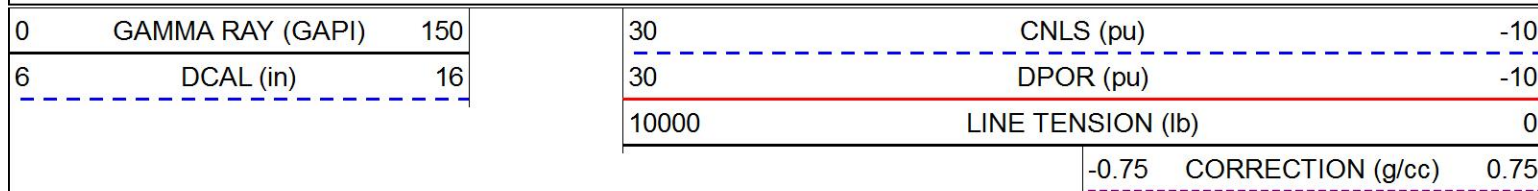


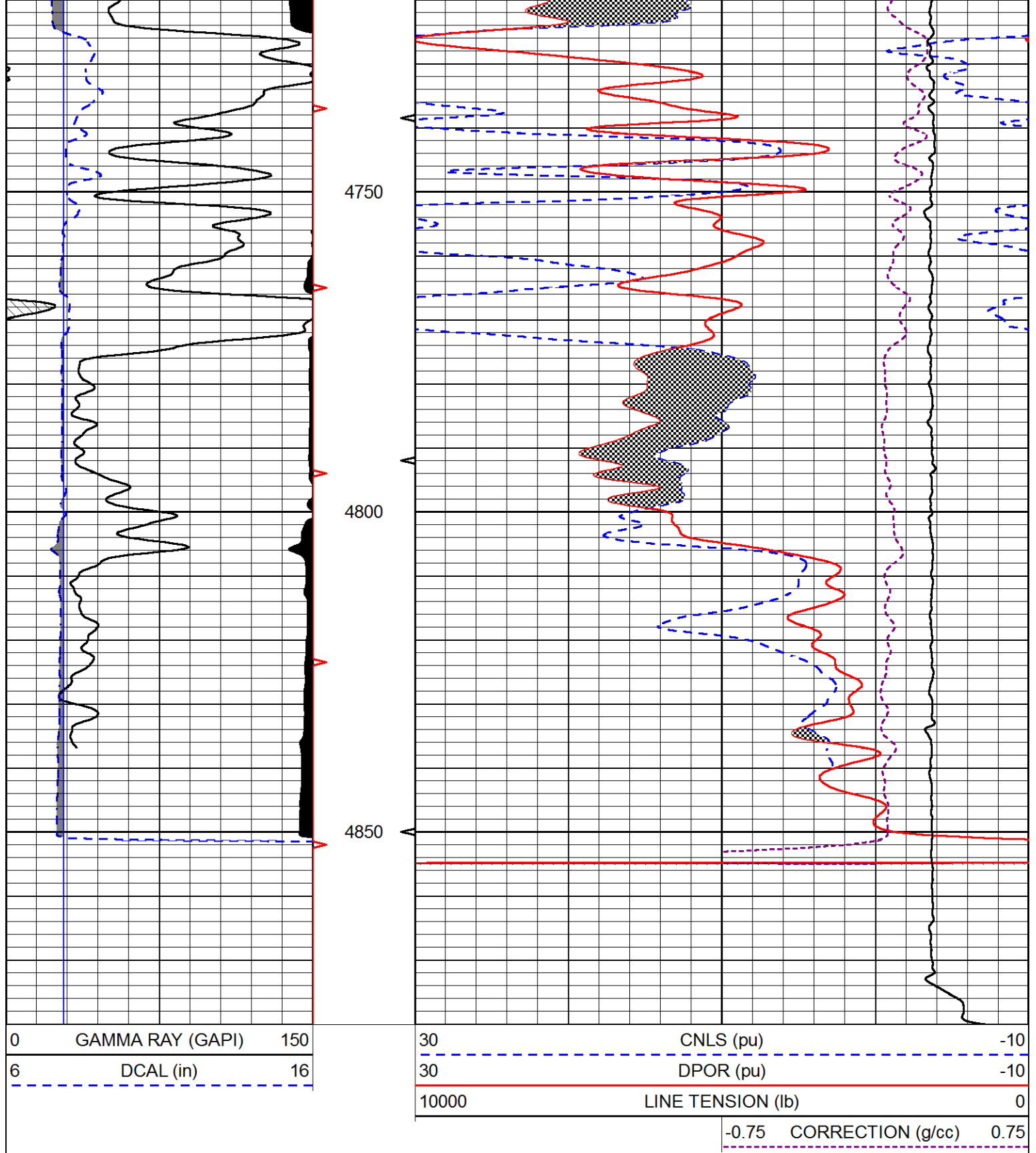




REPEAT SECTION

Database File val_flyings_#1_10.db
 Dataset Pathname STACKMEL/pass2.1
 Presentation Format _cndlspec
 Dataset Creation Thu May 09 23:19:28 2019
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File val_flyings_#1_10.db
Dataset Pathname STACKMEL/pass3.20
Dataset Creation Thu May 09 22:36:22 2019

Dual Induction Calibration Report

Serial-Model:
Calibration Performed:

967 (HT)-PSI HIGH TEMP
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	-17.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-40.000

Microlog Calibration Report

Serial-Model: Performed:	PSI-01-PSIML 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	66000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	123000.0000	5.0000
Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.7000

Compensated Density Calibration Report

Serial-Model: Source / Verifier: Master Calibration Performed:	96-916-M&W 16955B / 2ci 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	2.655	g/cc		1595.61		6242.82	cps
Spine Angle = 74.54				Density/Spine Ratio = 0.503			
	Size			Reading			
Small Ring	6.00	in		1.75			
Large Ring	16.00	in		1.46			

Compensated Neutron Calibration Report

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

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	VAL ENERGY, INC.
Well	FLYING S NO.1-10
Field	LEVANT
County	THOMAS
State	KANSAS