



DUAL COMP POROSITY LOG

Company SUMMIT OPERATING LLC
 Well YOUNGER # 1-17
 Field REICHEL
 County RUSH
 State KANSAS

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 Field REICHEL
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Location: API #: 15-165-22165-00-00
 831' FNL & 1460' FWL
 SEC 17 TWP 16S RGE 17W
 Permanent Datum GROUND LEVEL Elevation 2006'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services MEL/DIL
 K.B. 2011'
 D.F. N/A
 G.L. 2006'

Date	5/24/2019						
Run Number	ONE						
Type Log	CNL/CDL						
Depth Driller	3581'						
Depth Logger	3580'						
Bottom Logged Interval	3560'						
Top Logged Interval	SURFACE						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	5000						
Density	9.5						
Level	FULL						
Max. Rec. Temp. F	112						
Operating Rig Time	4 HOURS						
Equipment -- Location	P-24 HAYS						
Recorded By	M. HISS						
Witnessed By	MARC DOWNING						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	1122'	8.625"	24#	00'	1122'
TWO	7.875"	1122'	TD				
Casing Record							

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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.

LIEBENTHAL, KS.
 4 1/2 MILES EAST, 1 MILE NORTH,
 1/4 EAST, 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	This Log Record Was Witnessed By
Engineer: M. HISS	Primary Witness: MARC DOWNING
Operator: I. MABB	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\summit_younger_1_17.db
 Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	112	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	4	4	630	50	Off	3580

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00		GR-M&W (89)	3.00	3.50	50.00
CNLSC CNSSC	29.90 29.15		CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	20.85 20.83 20.35		CDL-M&W (96-916)	8.50	4.00	250.00
RLL3F RLL3	15.80 15.80					
CILD	8.00		DIL-PSI HIGH TEMP (967 (HT))	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: summit_younger_1_17.db: field/well/stack/pass3.1
 Total length: 35.50 ft
 Total weight: 620.00 lb
 O.D.: 4.00 in

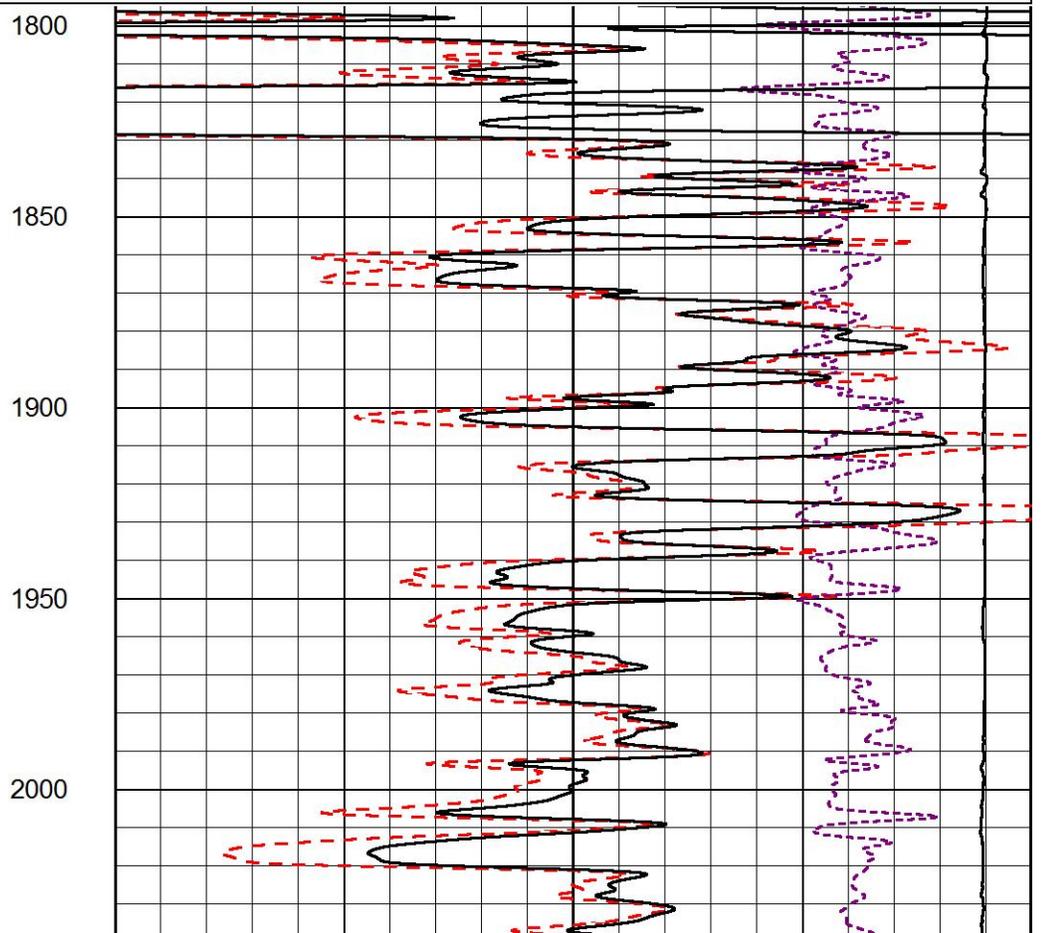
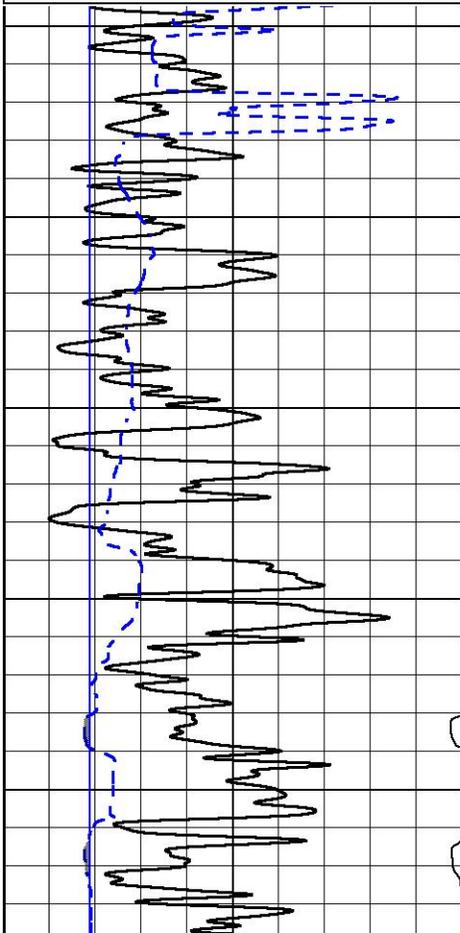


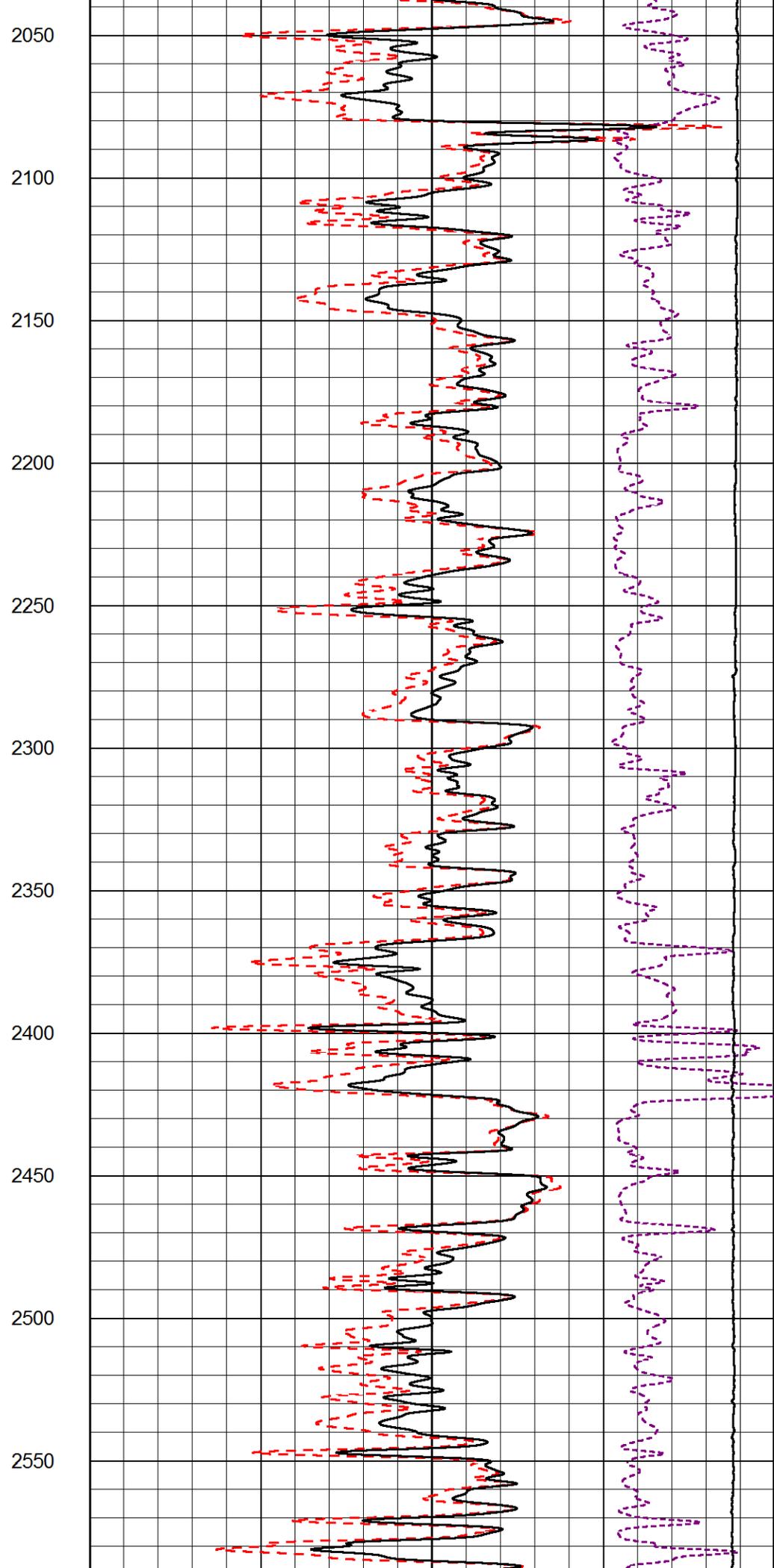
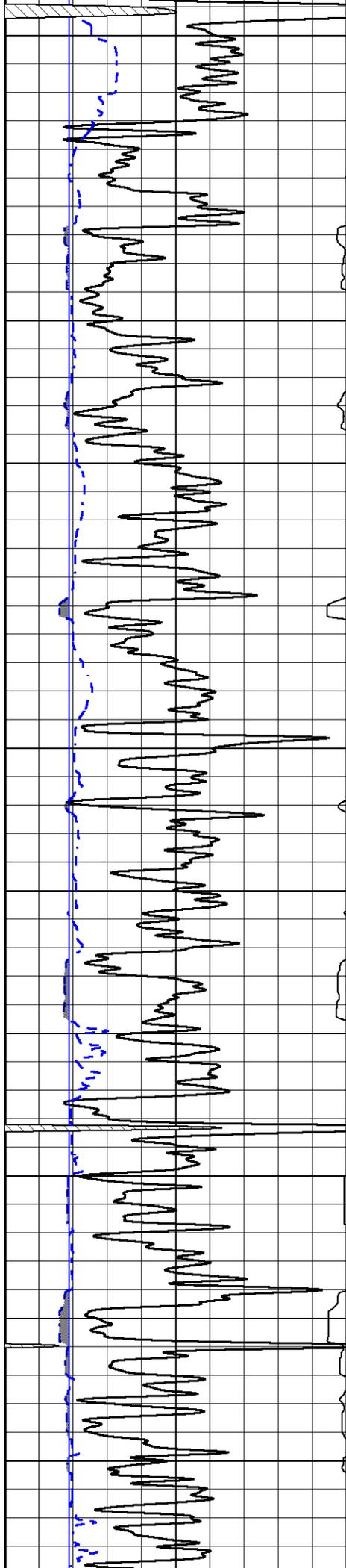
MAIN PASS

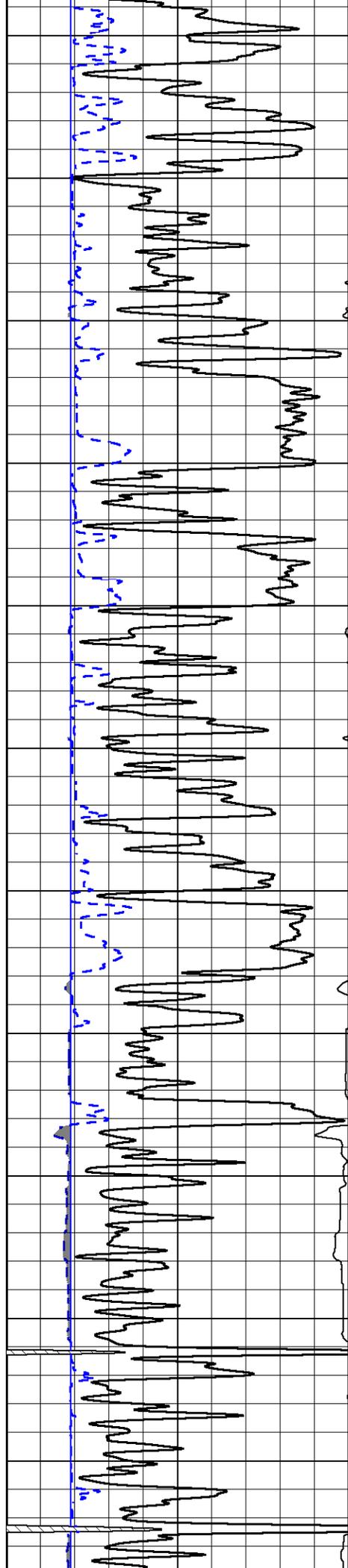
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 Dataset Pathname stack/pass3.1
 Presentation Format _cdl
 Dataset Creation Fri May 24 11:41:23 2019
 Charted by Depth in Feet scaled 1:600

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

30	COMPENSATED DENSITY (2.71 MA)	(pu)	-10
2	BULK DENSITY (g/cc)		3
15000	LINE TENSION (lb)		0
	-0.25	CORRECTION (g/cc)	0.25







2600

2650

2700

2750

2800

2850

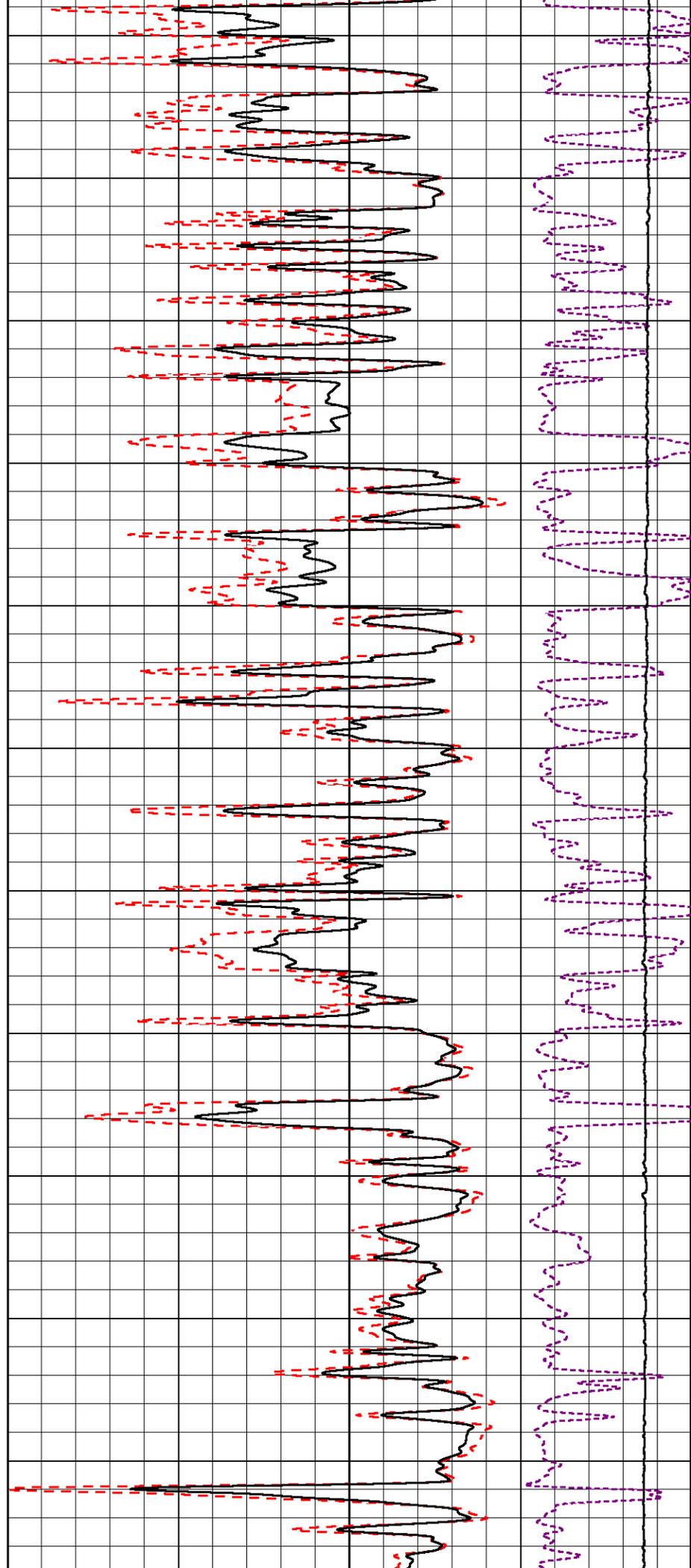
2900

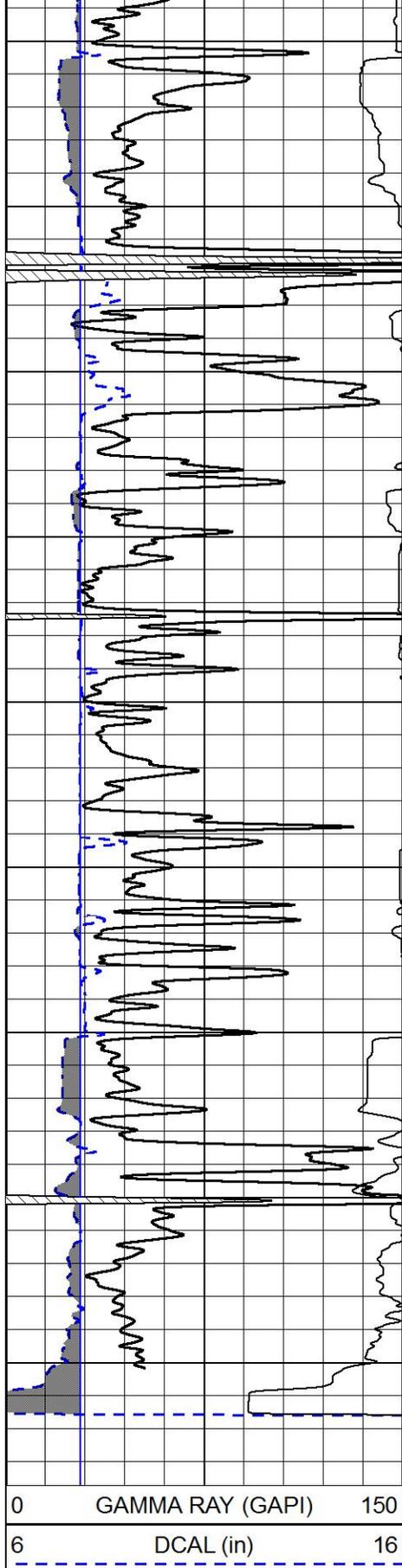
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3000

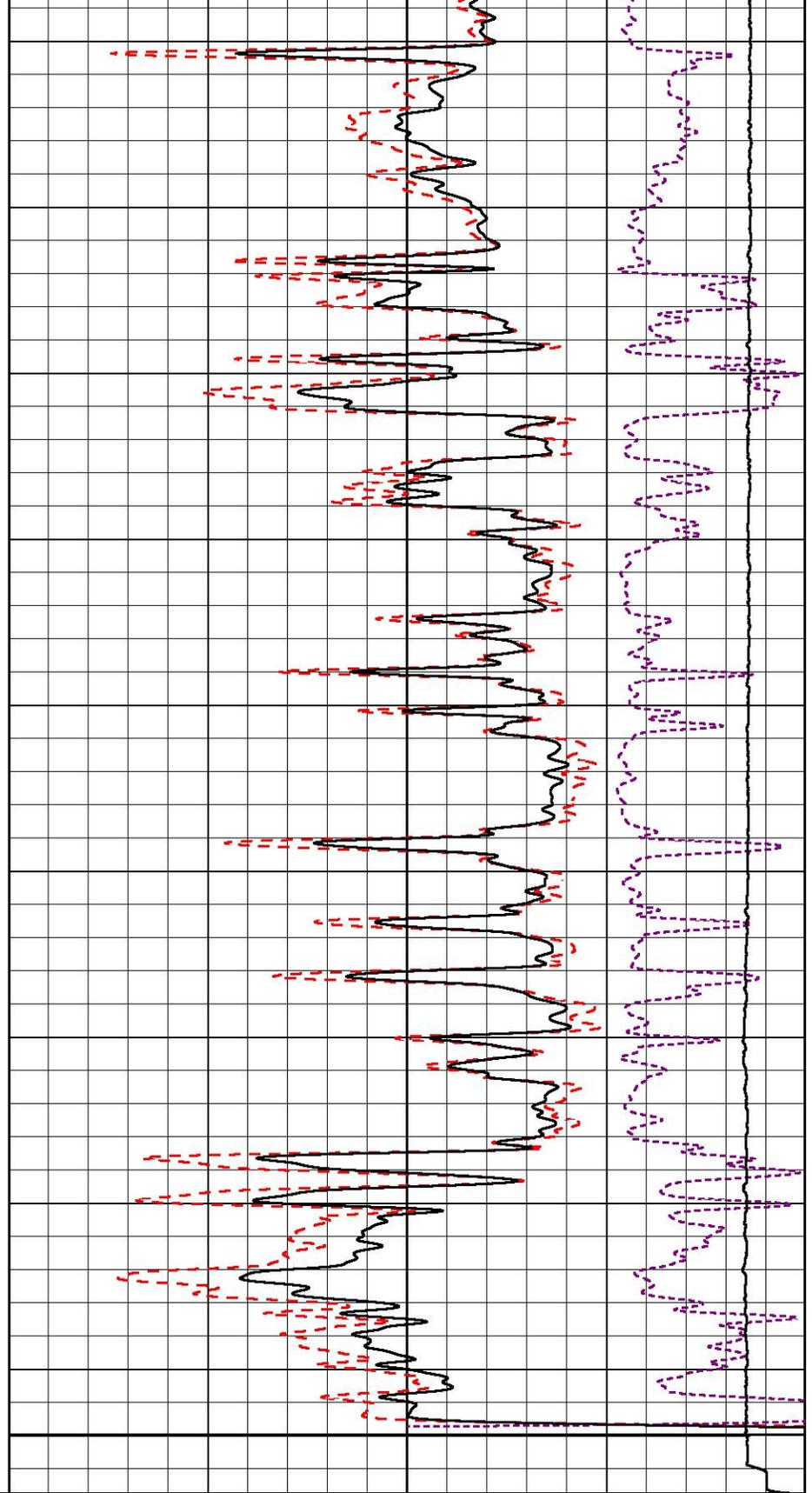
3050

3100





3150
3200
3250
3300
3350
3400
3450
3500
3550



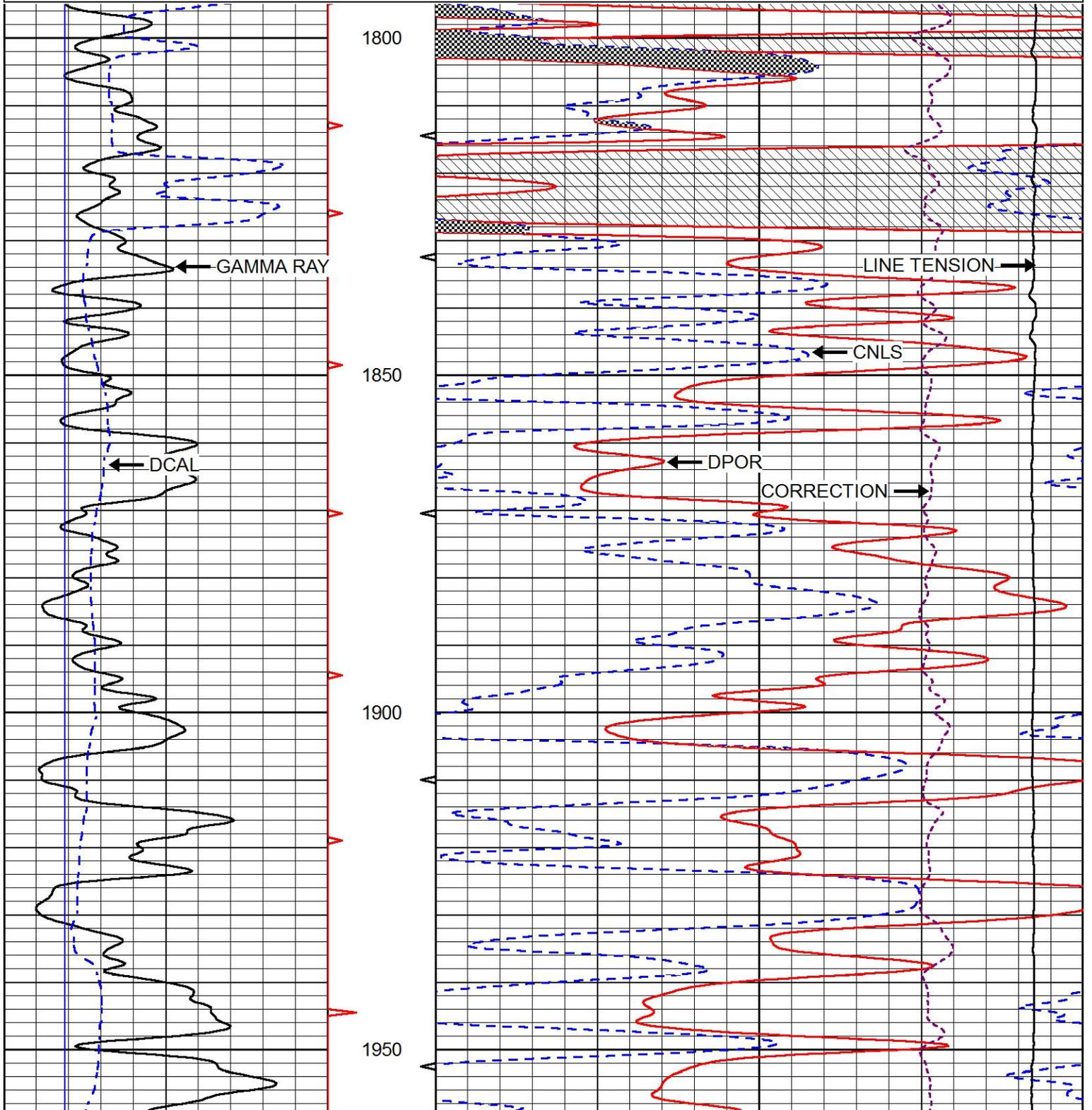
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6 DCAL (in) 16

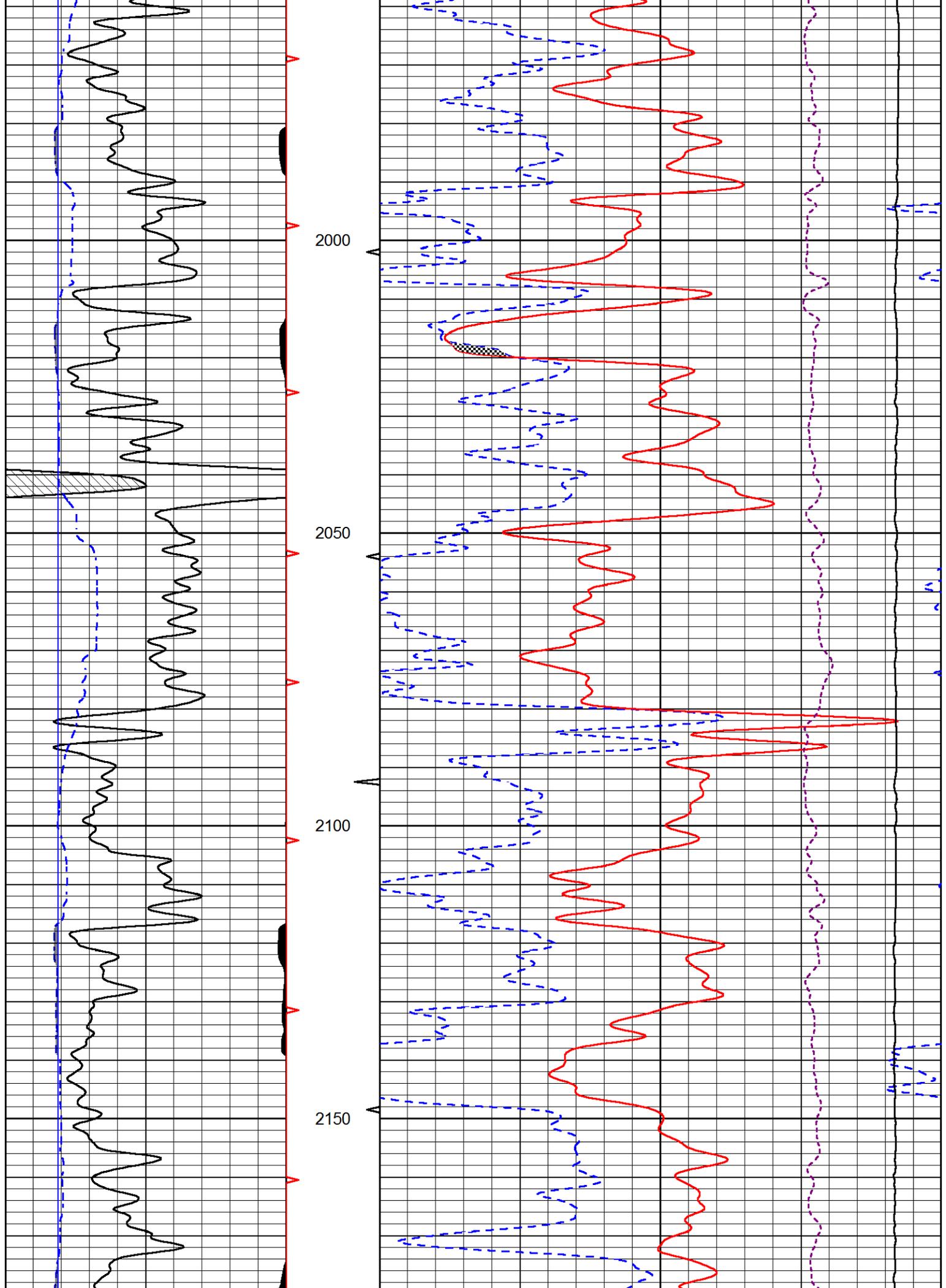
COMPENSATED DENSITY (2.71 MA)
30 (pu) -10
2 BULK DENSITY (g/cc) 3
15000 LINE TENSION (lb) 0
-0.25 CORRECTION (g/cc) 0.25

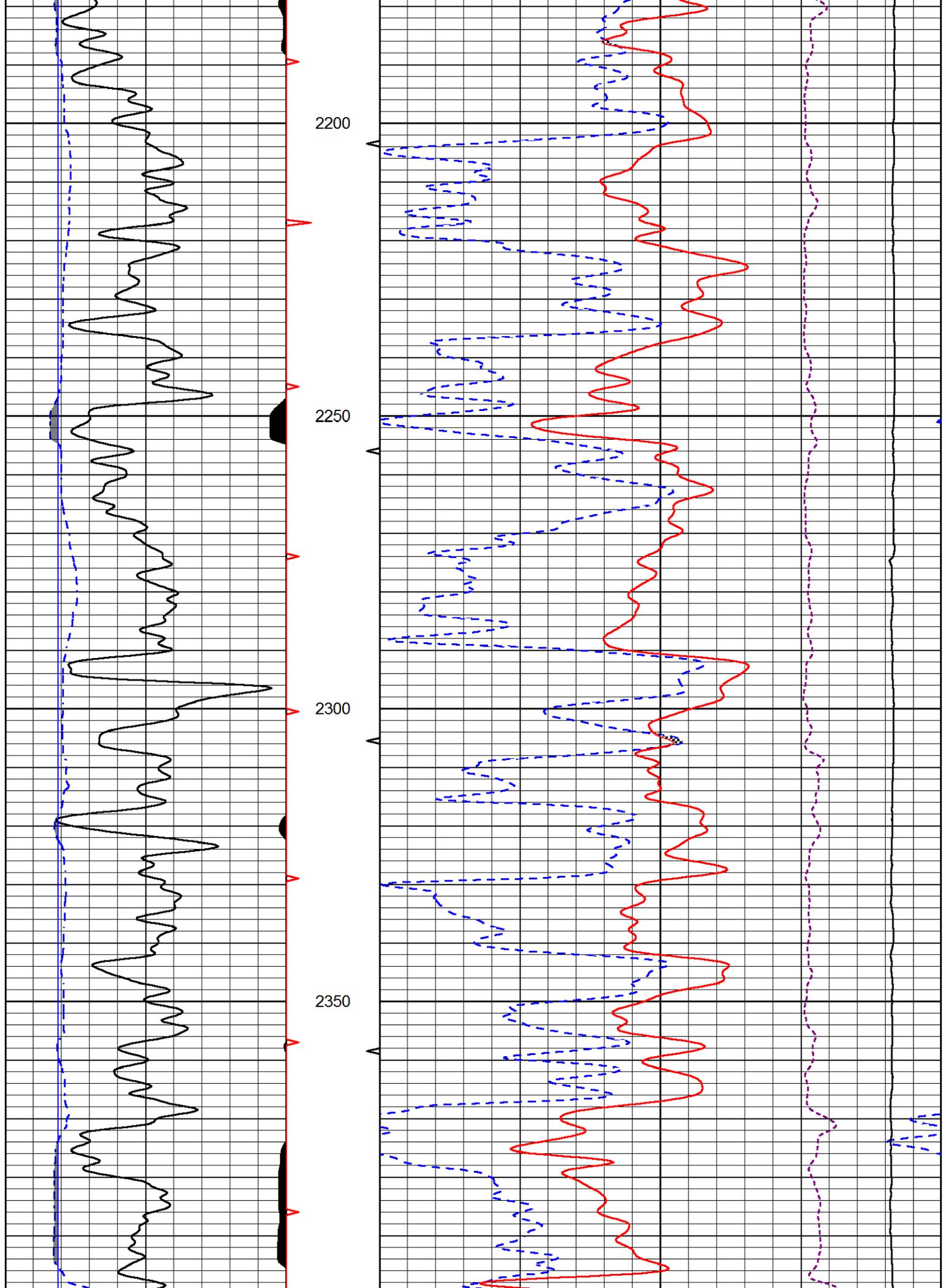
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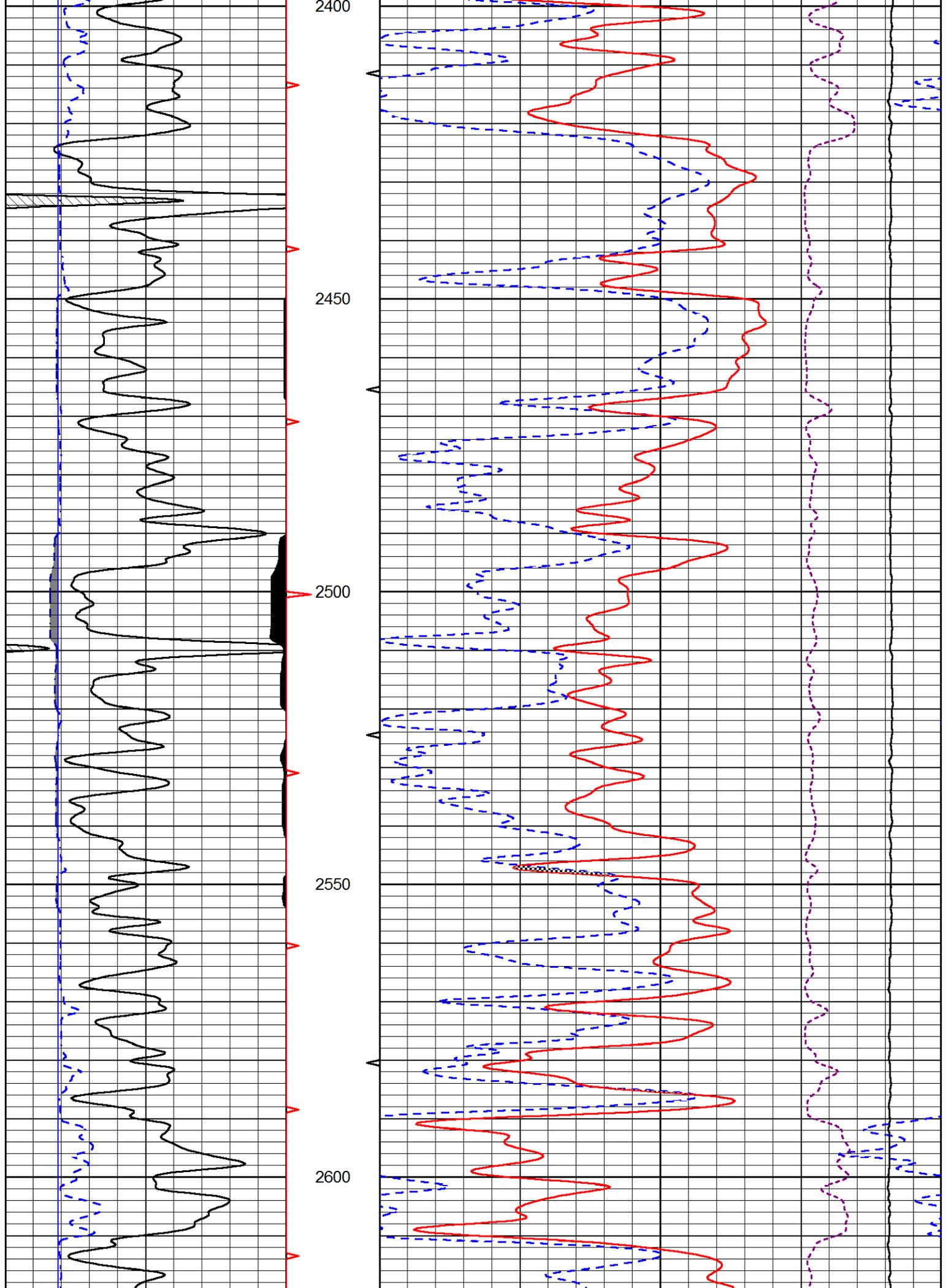
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6	DCAL (in)	16

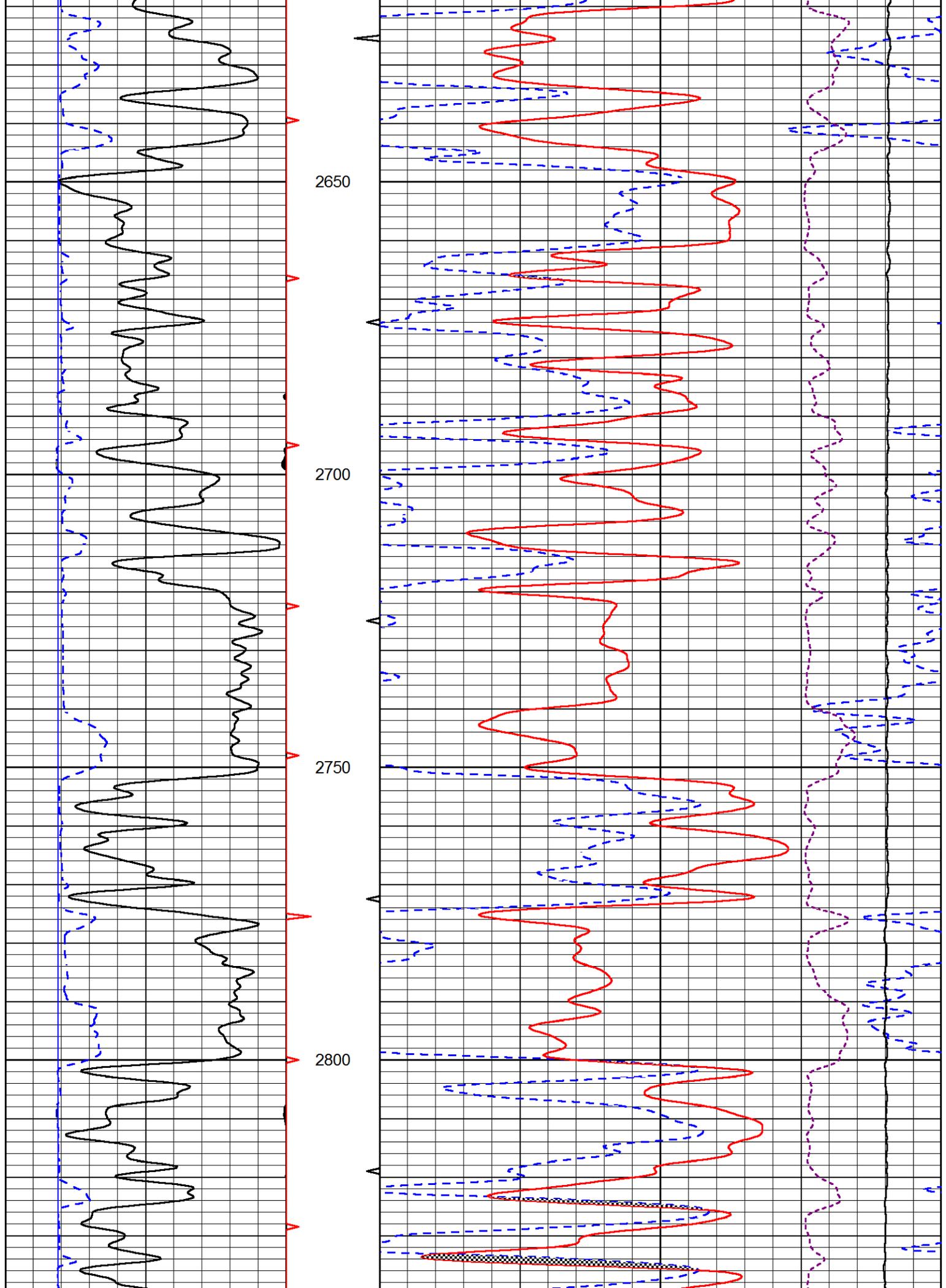
30	CNLS (pu)	-10
30	DPOR (pu)	-10
10000	LINE TENSION (lb)	0
-0.75	CORRECTION (g/cc)	0.75

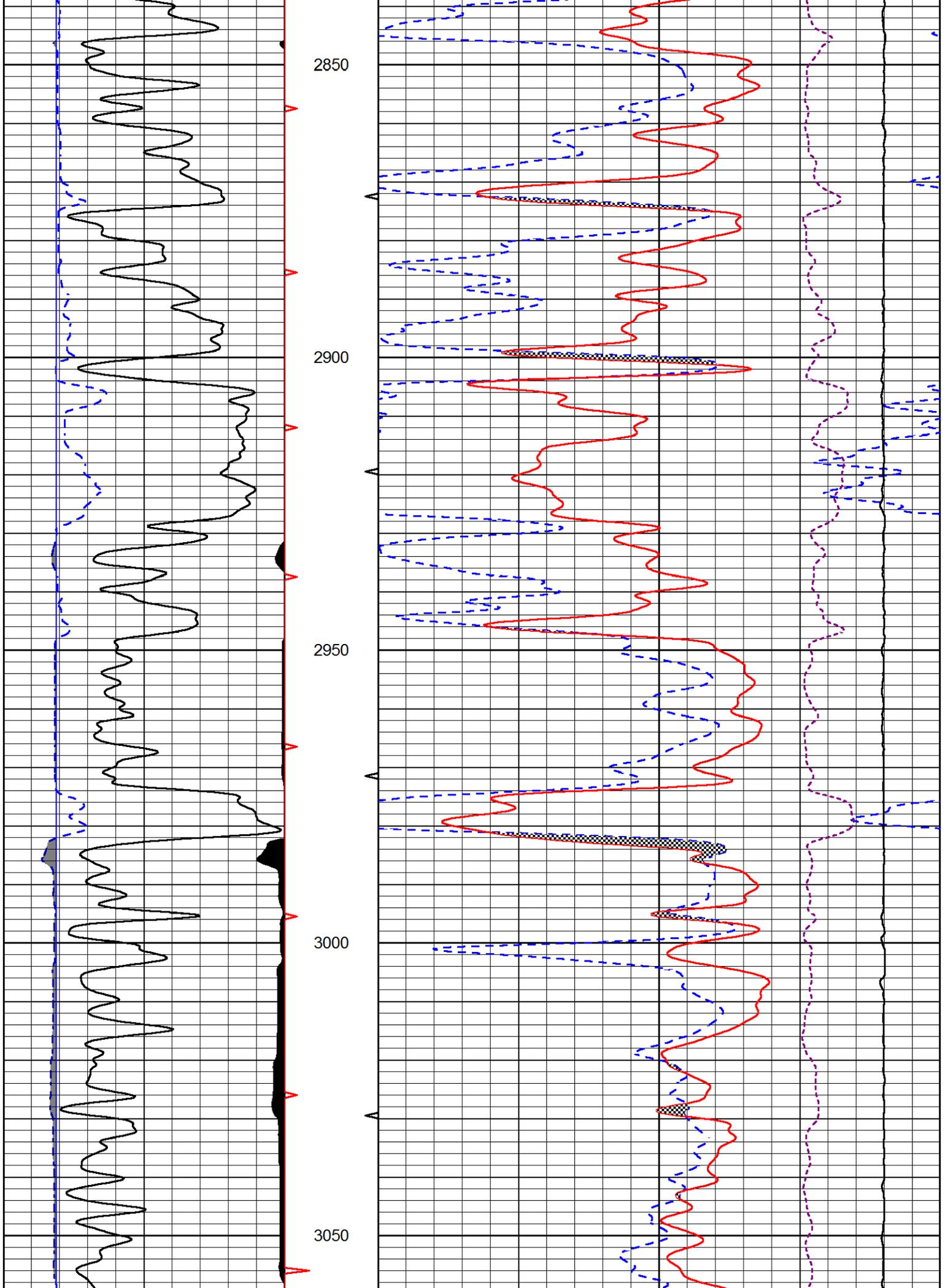


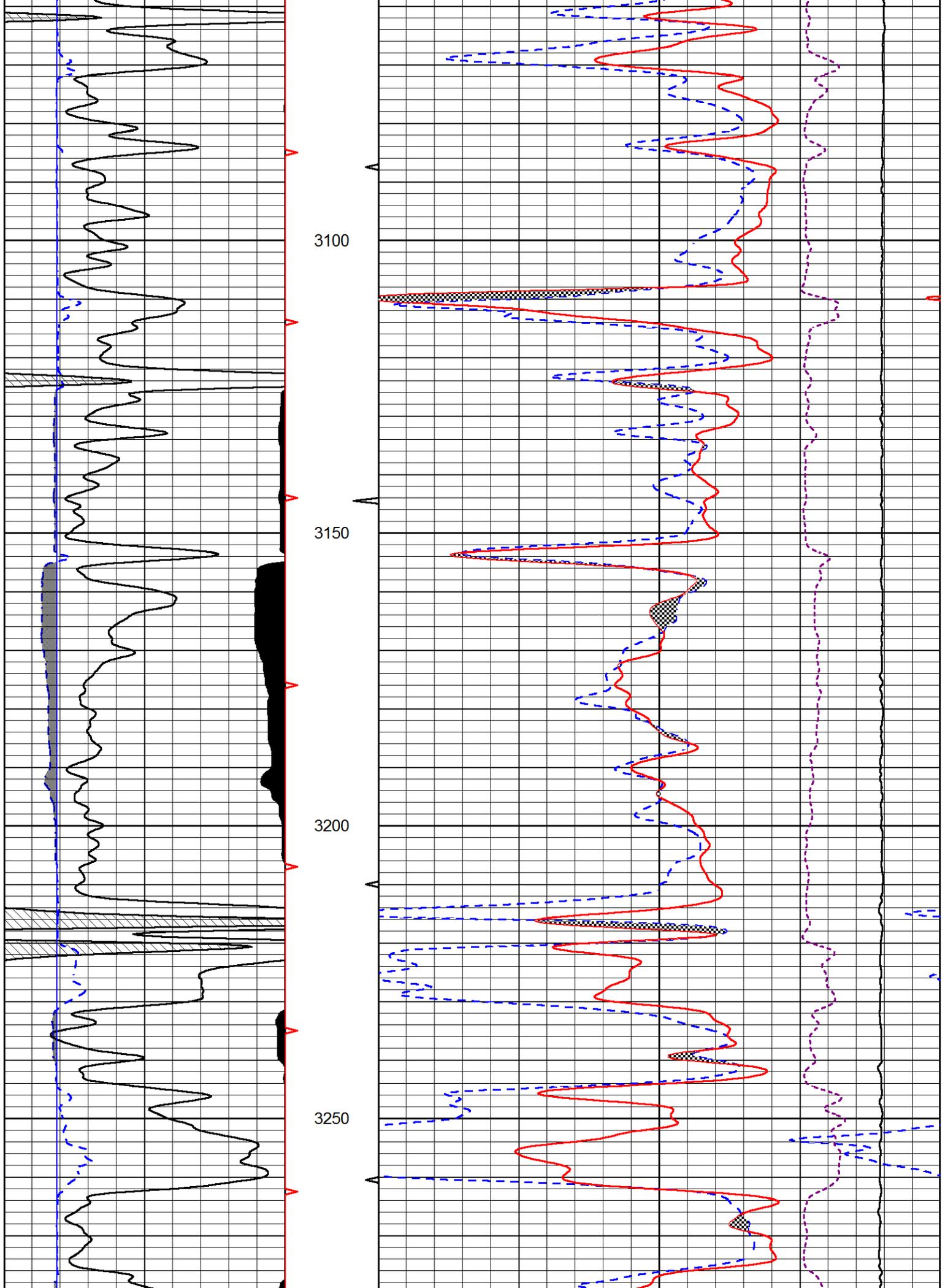


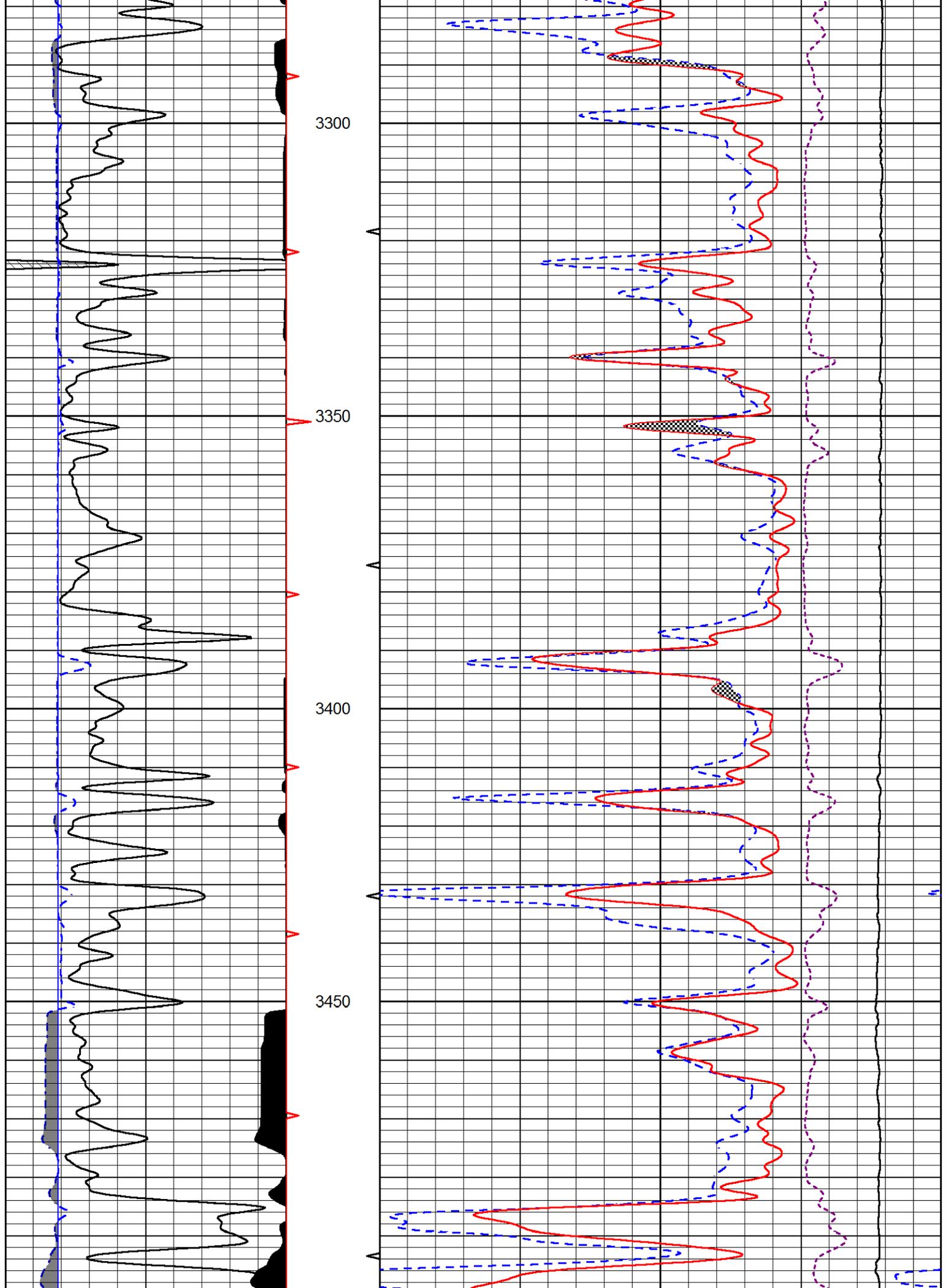


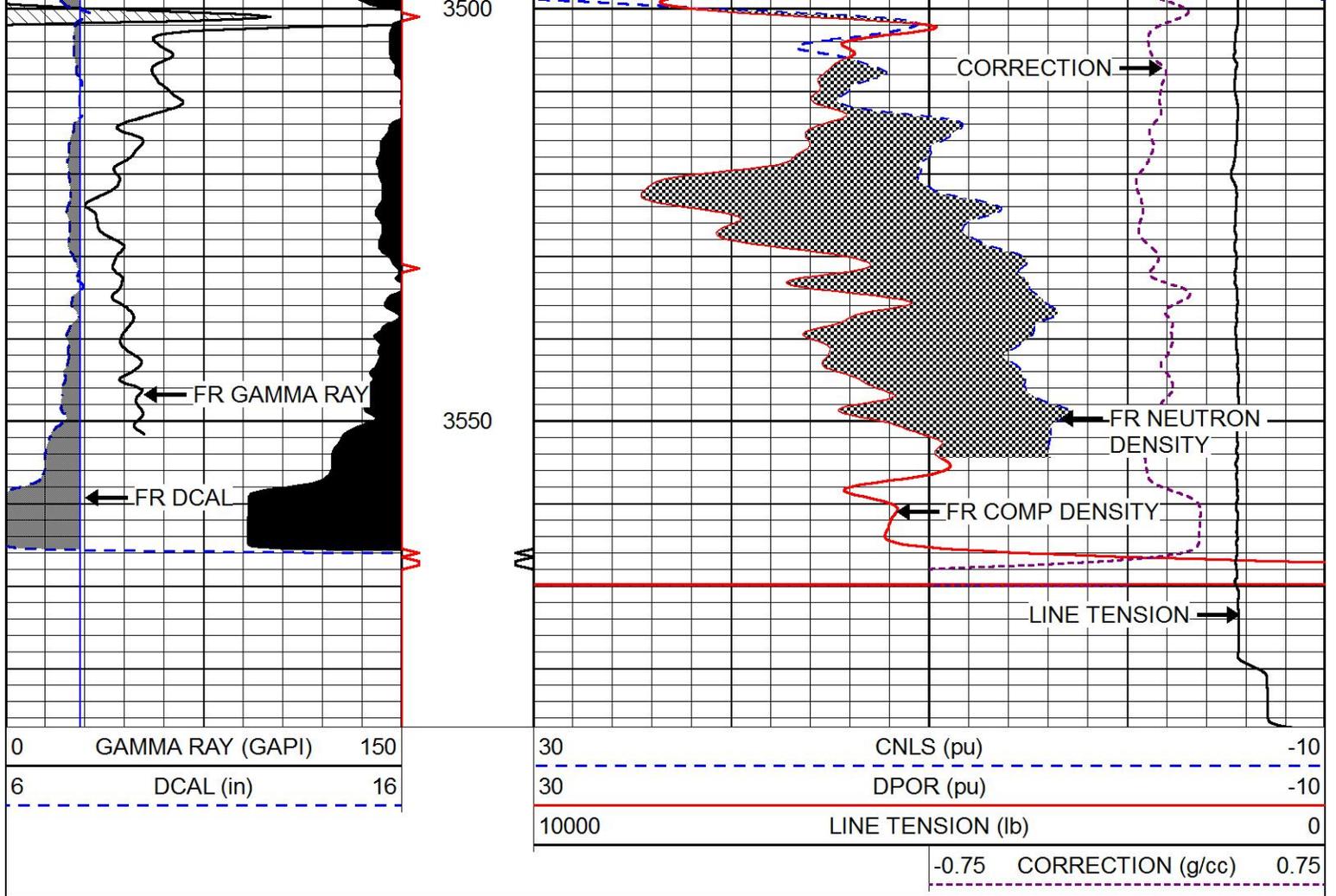








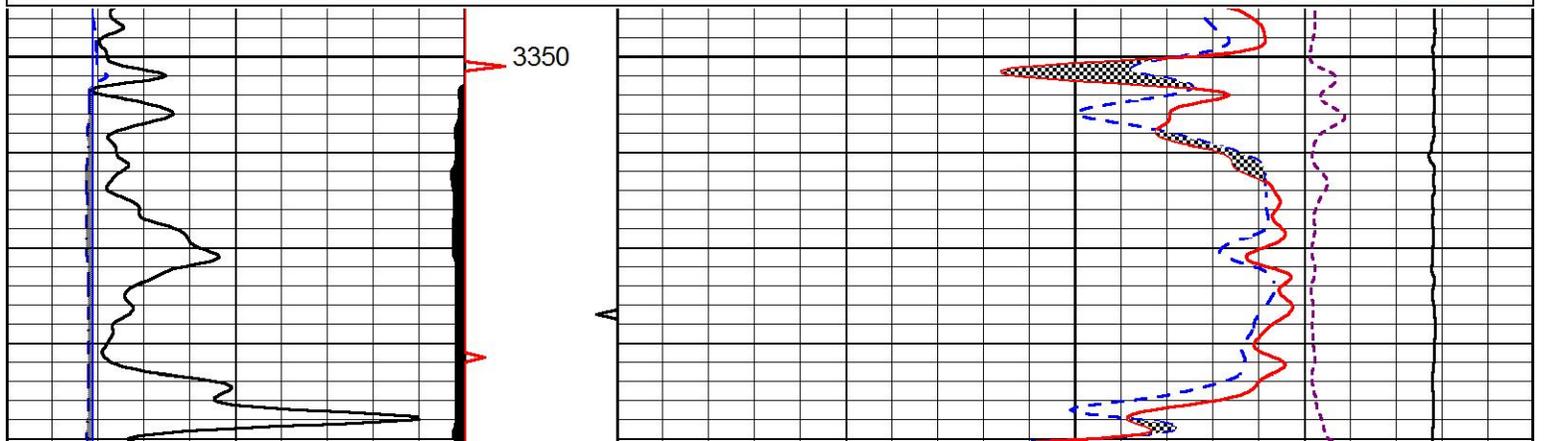


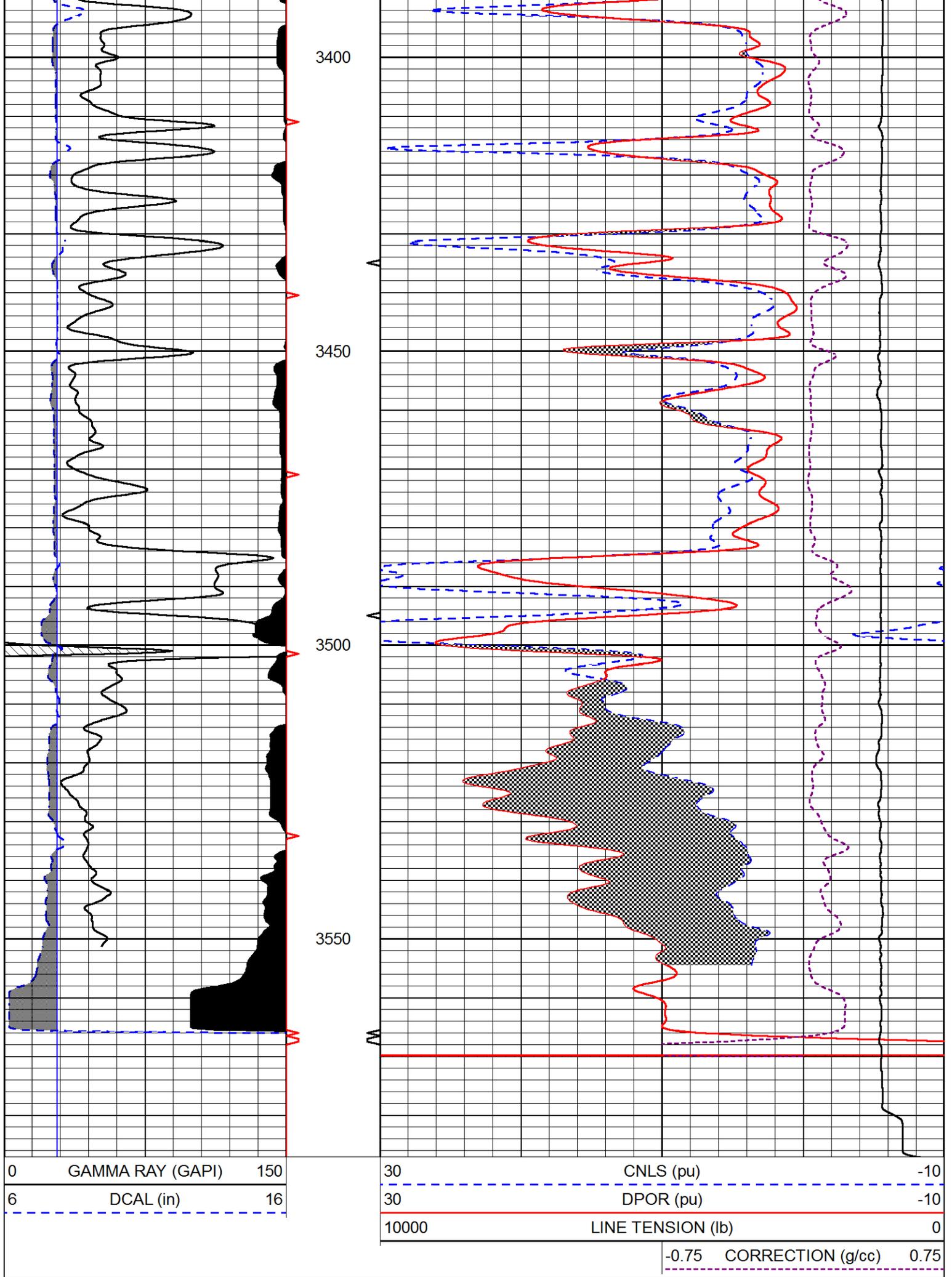


REPEAT SECTION

Database File summit_younger_1_17.db
 Dataset Pathname stack/pass2.1
 Presentation Format _cndlspec
 Dataset Creation Fri May 24 11:44:29 2019
 Charted by Depth in Feet scaled 1:240

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







PIONEER

Pioneer Energy Services

Company	SUMMIT OPERATING LLC
Well	YOUNGER # 1-17
Field	REICHEL
County	RUSH
State	KANSAS