



Pioneer Energy Services

DUAL COMP POROSITY LOG

Company	BEREXCO, LLC	
Well	PETRACEK #7	
Field	PETRACEK	
County	DECATUR	State KANSAS

Location: API #: 15-039-21257-00-00

1330' FNL & 2530' FWL

SEC 9 TWP 4S RGE 27W

Permanent Datum	GROUND LEVEL	Elevation	2660
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Elevation	
K.B.	2668'
D.F.	N/A
G.L.	2660'

Date	3/16/2019
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Run Number	ONE
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Type Log	CNLC/DL

Depth Driller	3860'
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Depth Logger	3860
Depth	3834

Bottom Logged Interval	3000'
Top Logged Interval	2000'

Top Logged Interval	3000
Types Eluvial In Hole	CHEMICAL

Salinity	1800
type	DIEMHOA

Density	9.1
Capacity	1000

eve	FULL
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Max. Rec. Temp. F	115
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Operating Rig Time	3 HOURS
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Equipment -- Location	P-24	HA
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Recorded By	D. SCHMID
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Witnessed By	BRYAN BYN
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[illegible]

Run No.	Bit	From	To
1	10	10	10

ONE	12.25	0	325
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IWO	1.8/3	323	ID
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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.

JENNINGS,
WEST TO 1330 RD, 2 NORTH, 3/4 WEST, 1 NORTH, 3/4 WEST,
SOUTH INTO

Log Measured From: KELLY BUSHING 8 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: BRYAN BYNOG
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 115	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 285	degF 40	Off	ft 3860

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89)	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
	28.42						
	27.93						
MCAL	19.83			ML-PSIML (PSI-01)	7.58	4.00	65.00
	19.83			GO Micro log tools converted to Simplec electronics			
	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: berexco_petracek 7.db: field/well/STKML/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MAIN PASS

Database File berexco_petracek 7.db
Dataset Pathname STKML/pass3.1
Presentation Format cdl
Dataset Creation Sat Mar 16 15:58:19 2019
Charted by Depth in Feet scaled 1:600

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

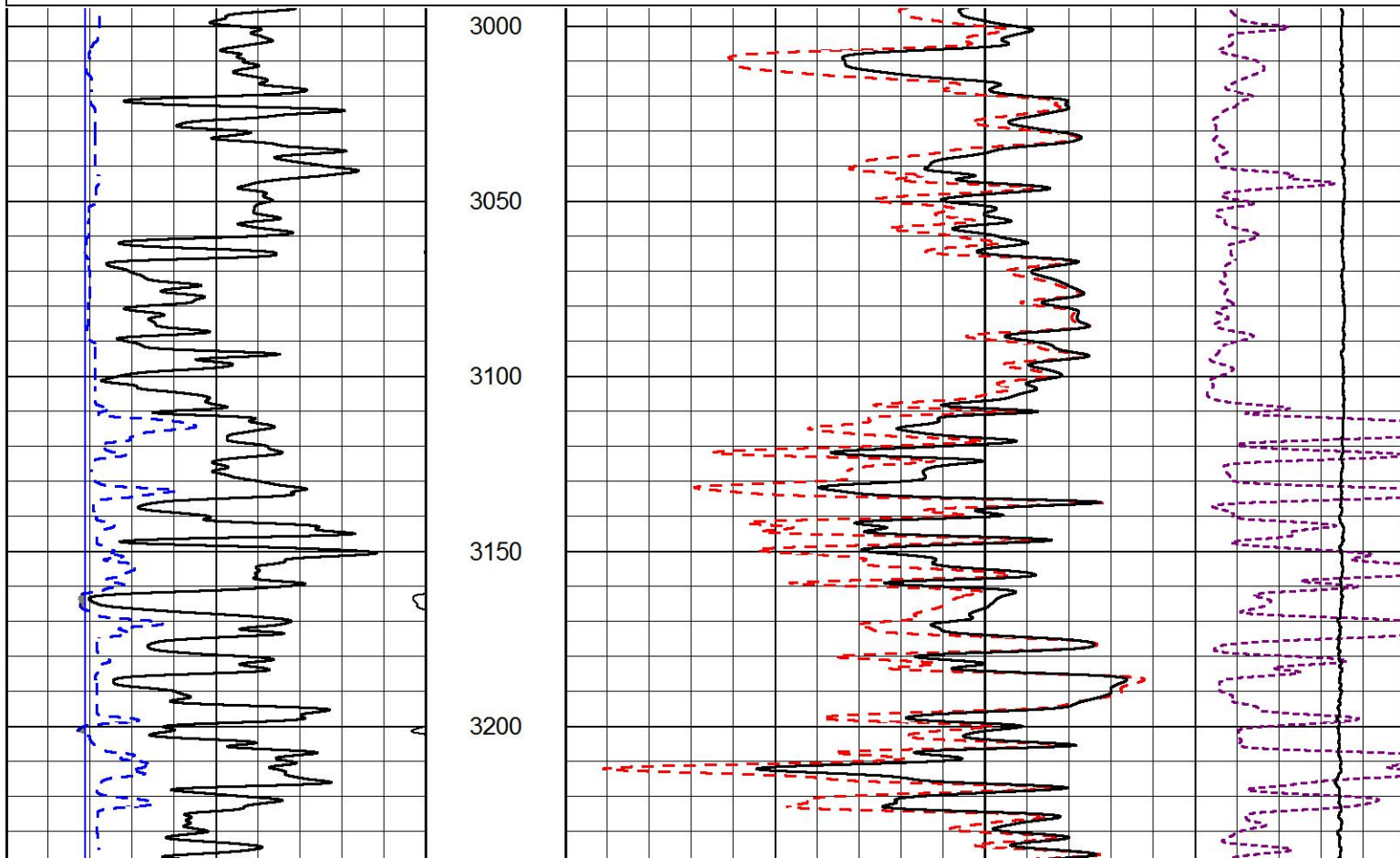
COMPENSATED DENSITY
(2.71 MA)

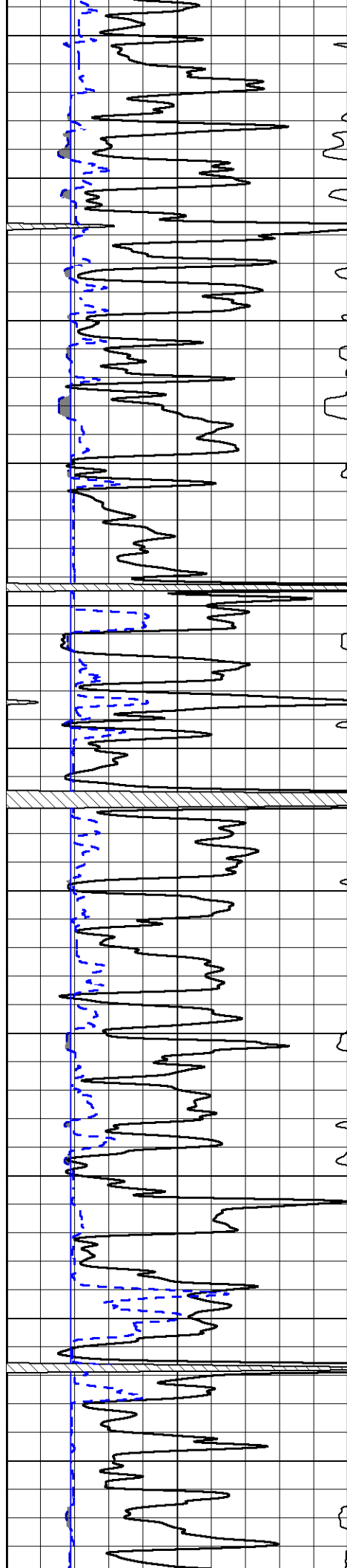
30 (pu) -10

2 BULK DENSITY (g/cc) 3

15000 LINE TENSION (lb) 0

-0.25 CORRECTION (g/cc) 0.25





3250

3300

3350

3400

3450

3500

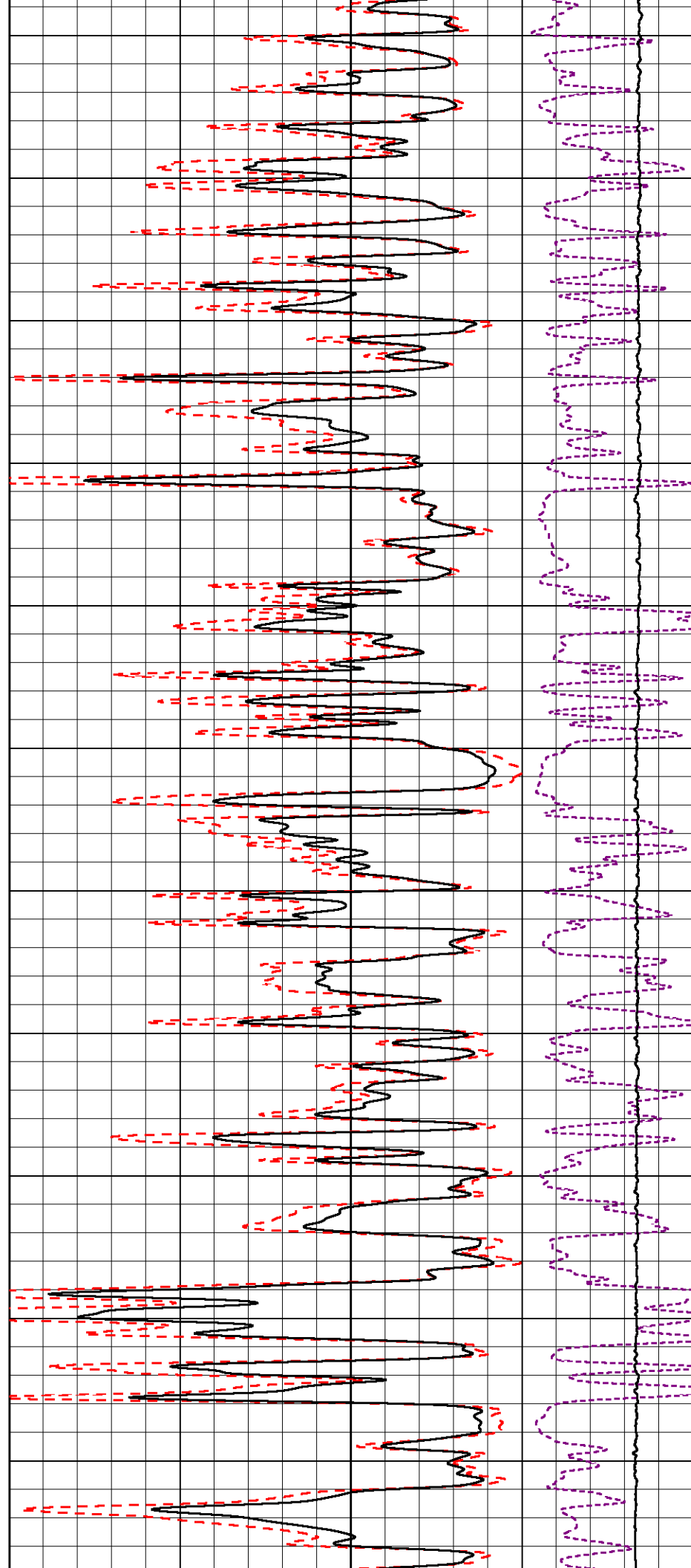
3550

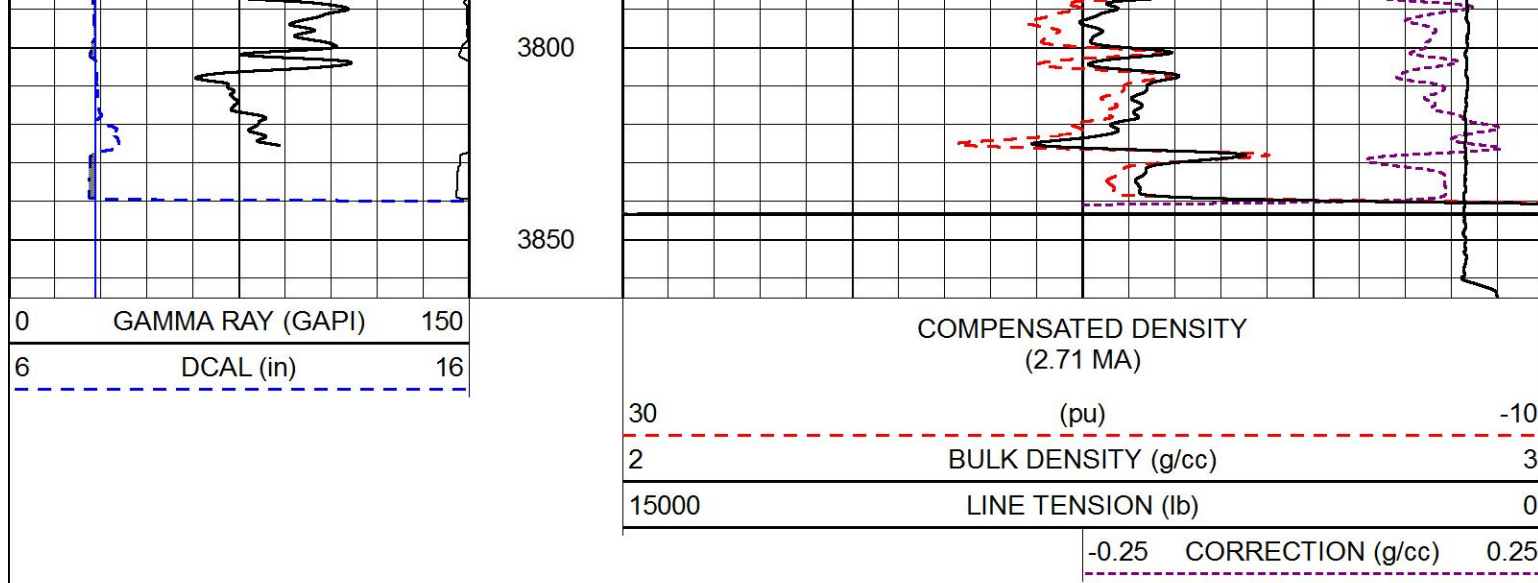
3600

3650

3700

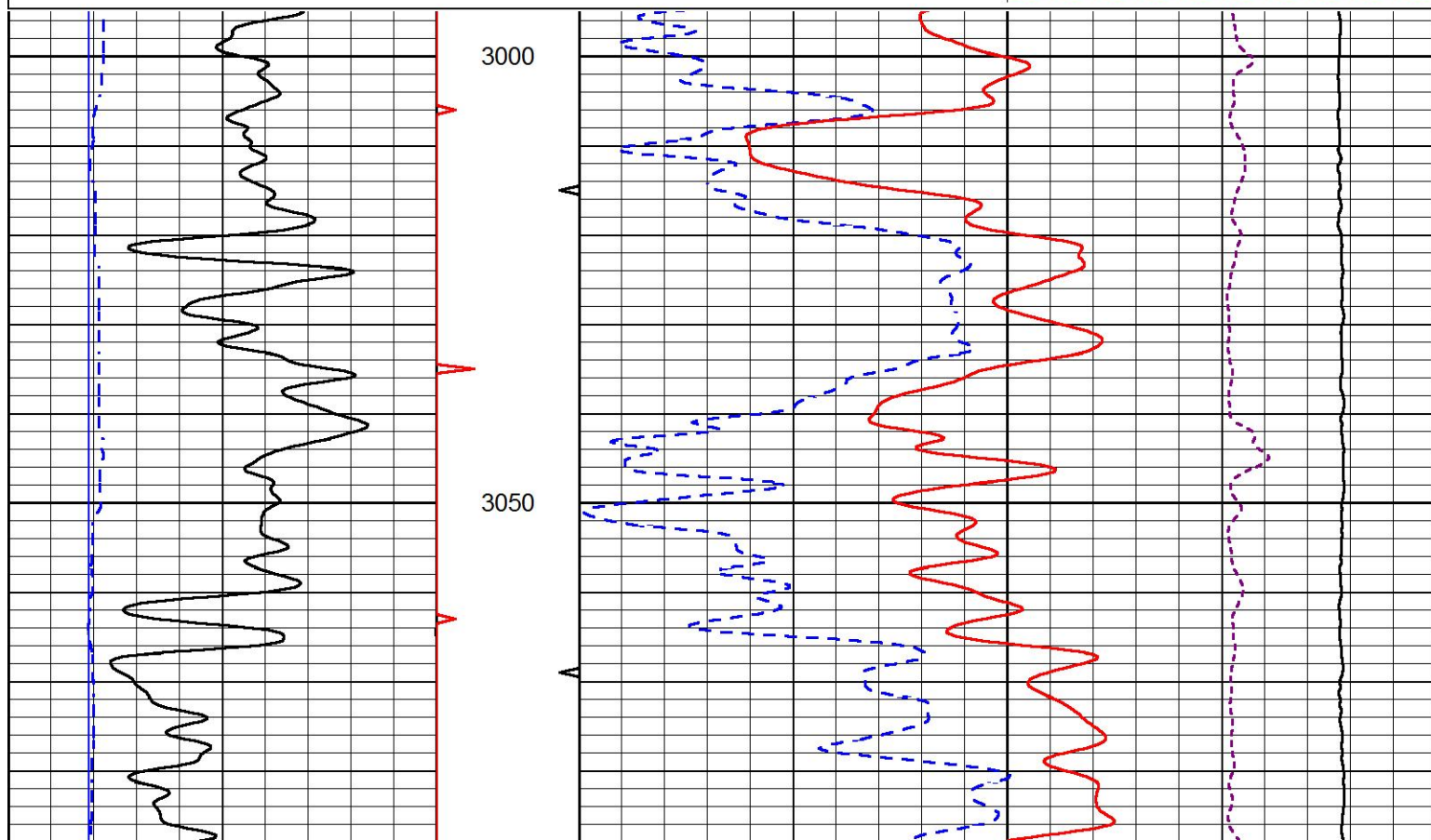
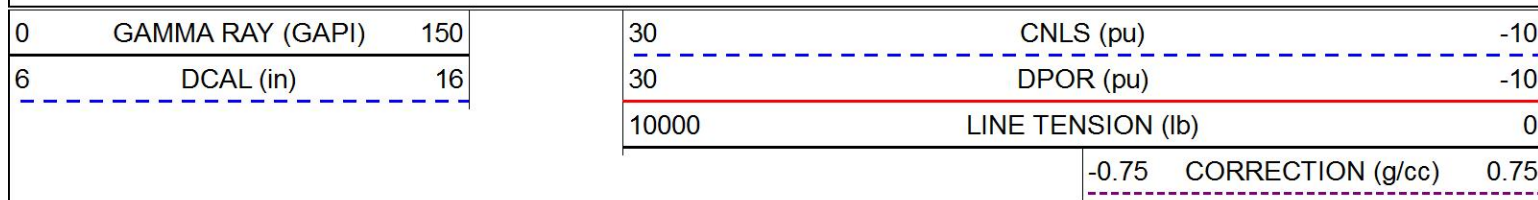
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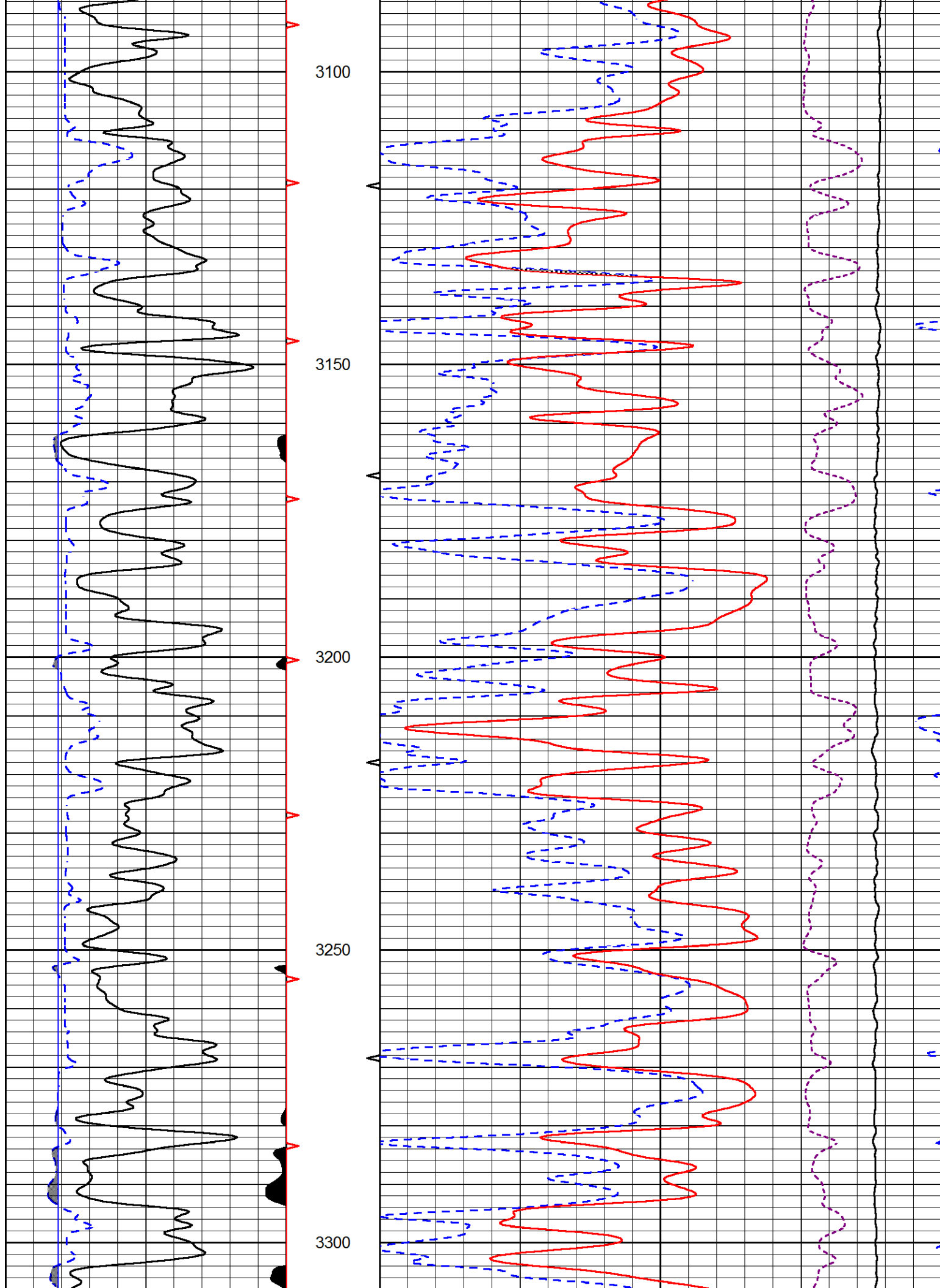


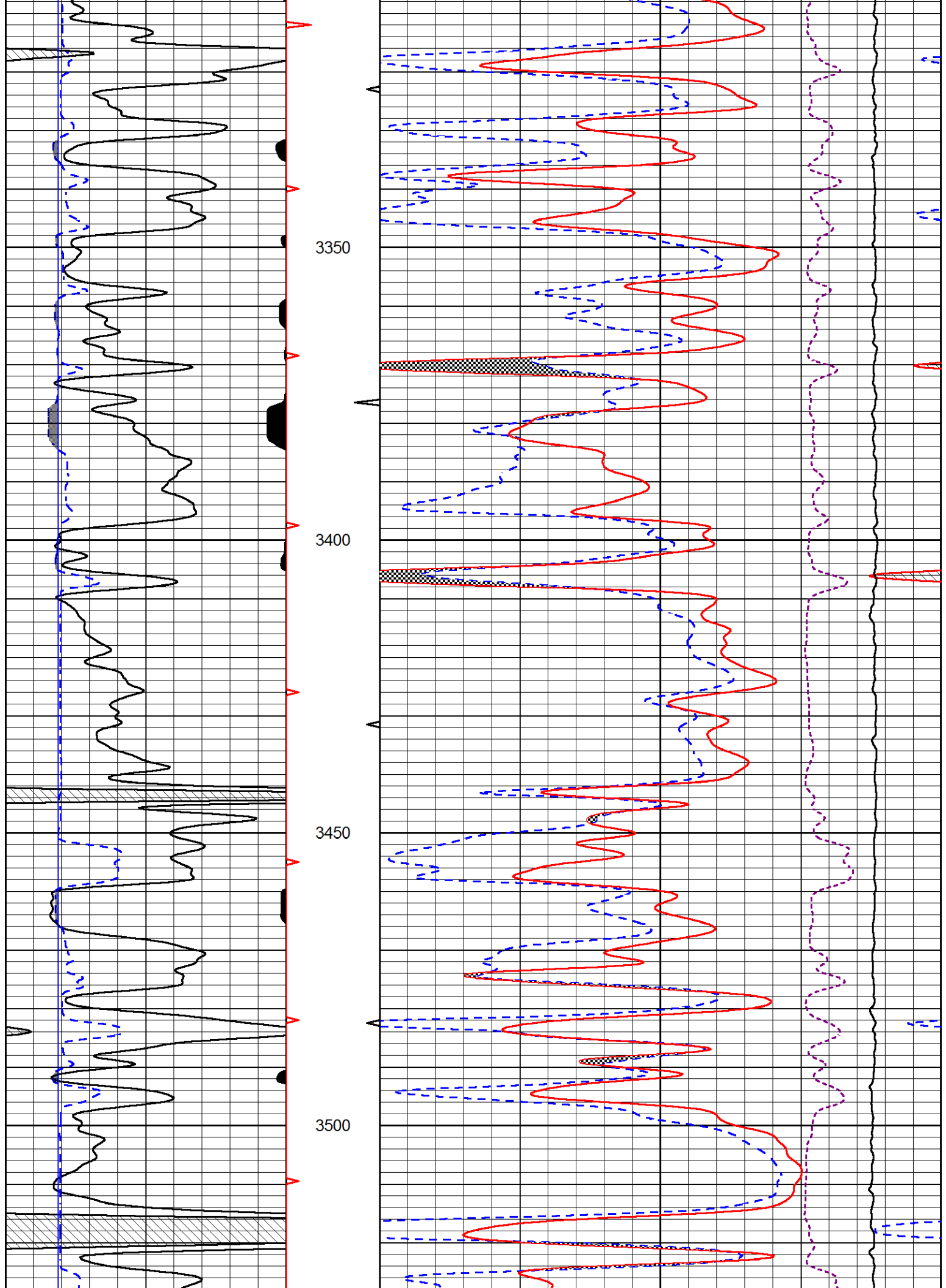


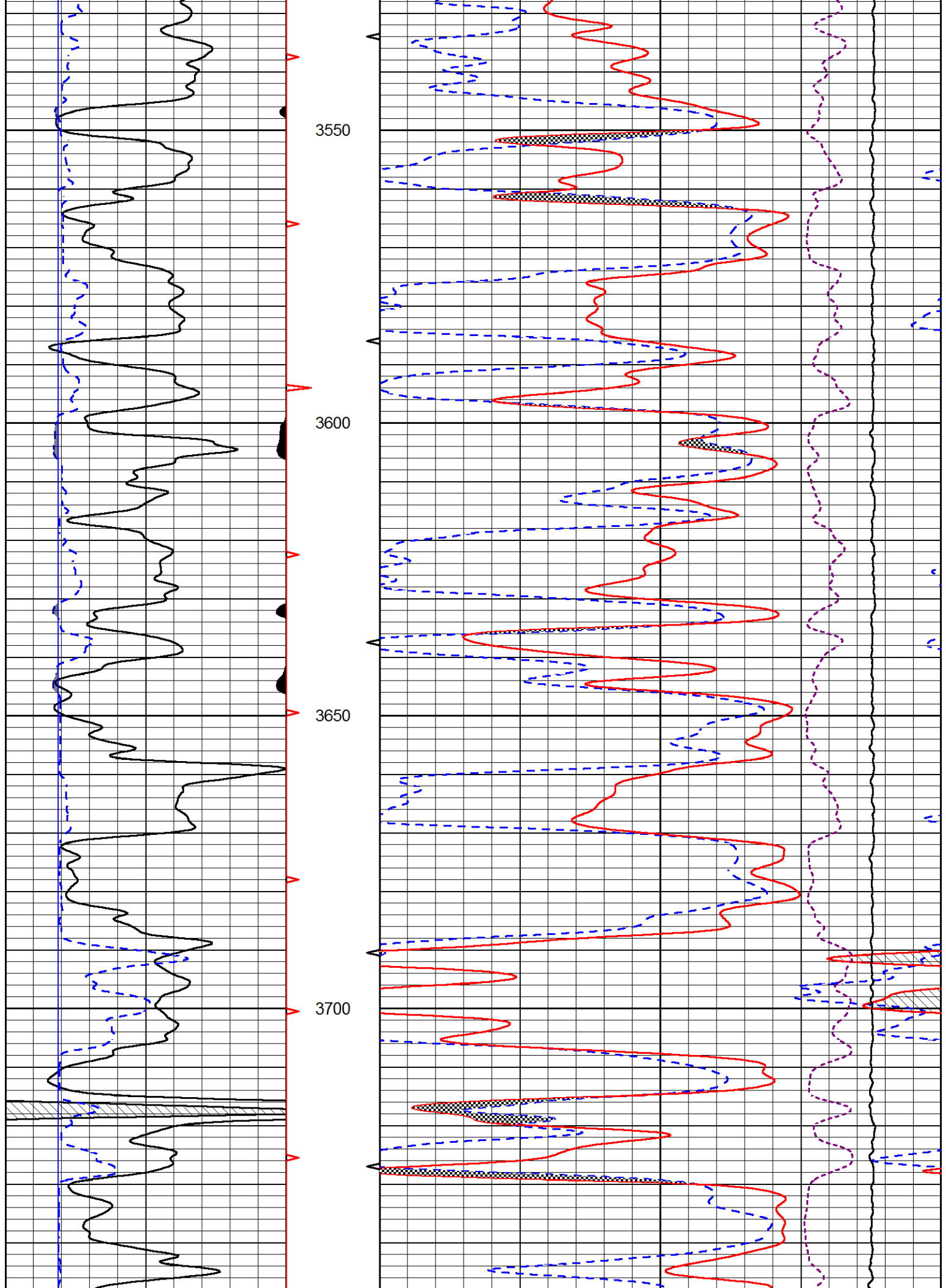
MAIN PASS

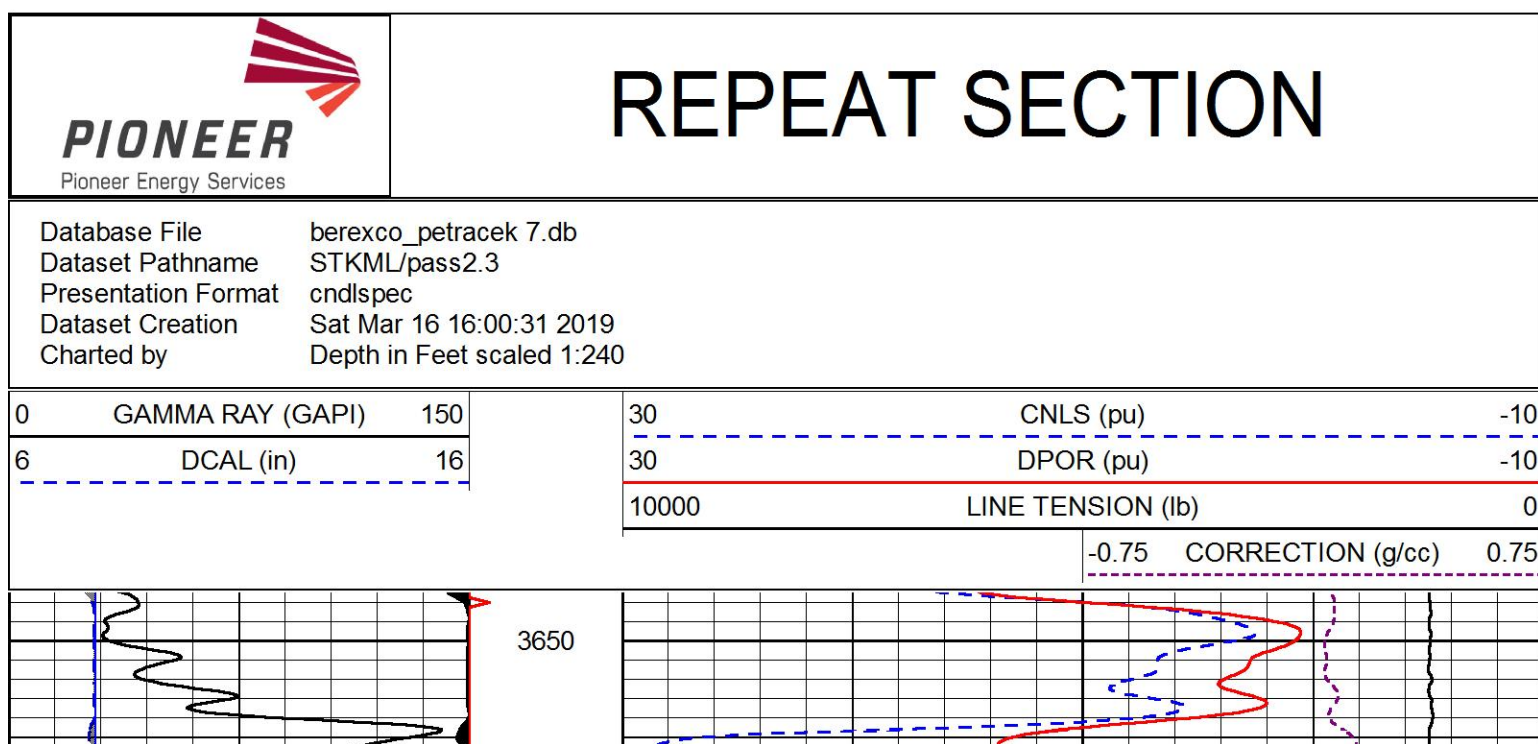
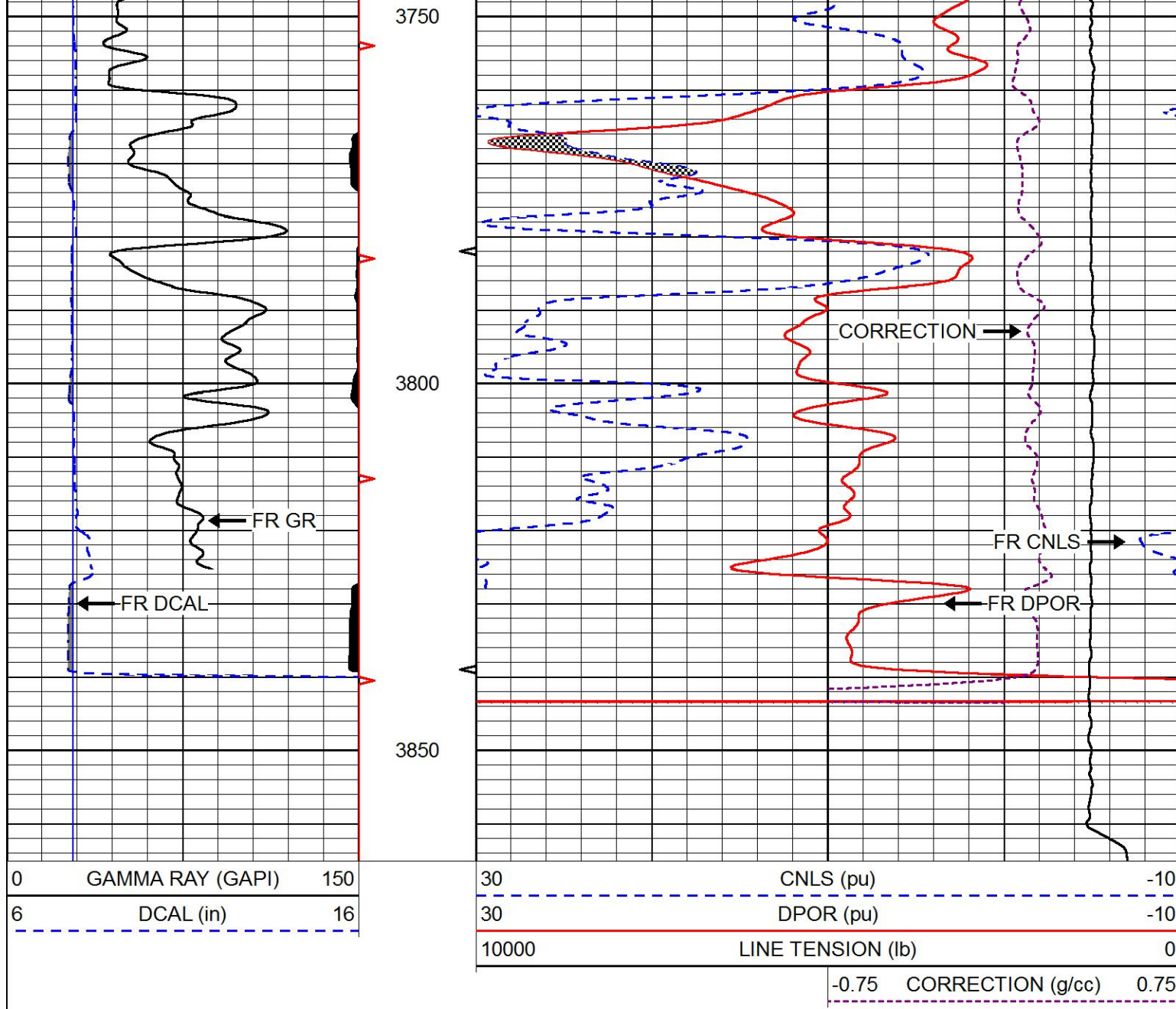
Database File	berexco_petracek 7.db
Dataset Pathname	STKML/pass3.1
Presentation Format	cnlspec
Dataset Creation	Sat Mar 16 15:58:19 2019
Charted by	Depth in Feet scaled 1:240

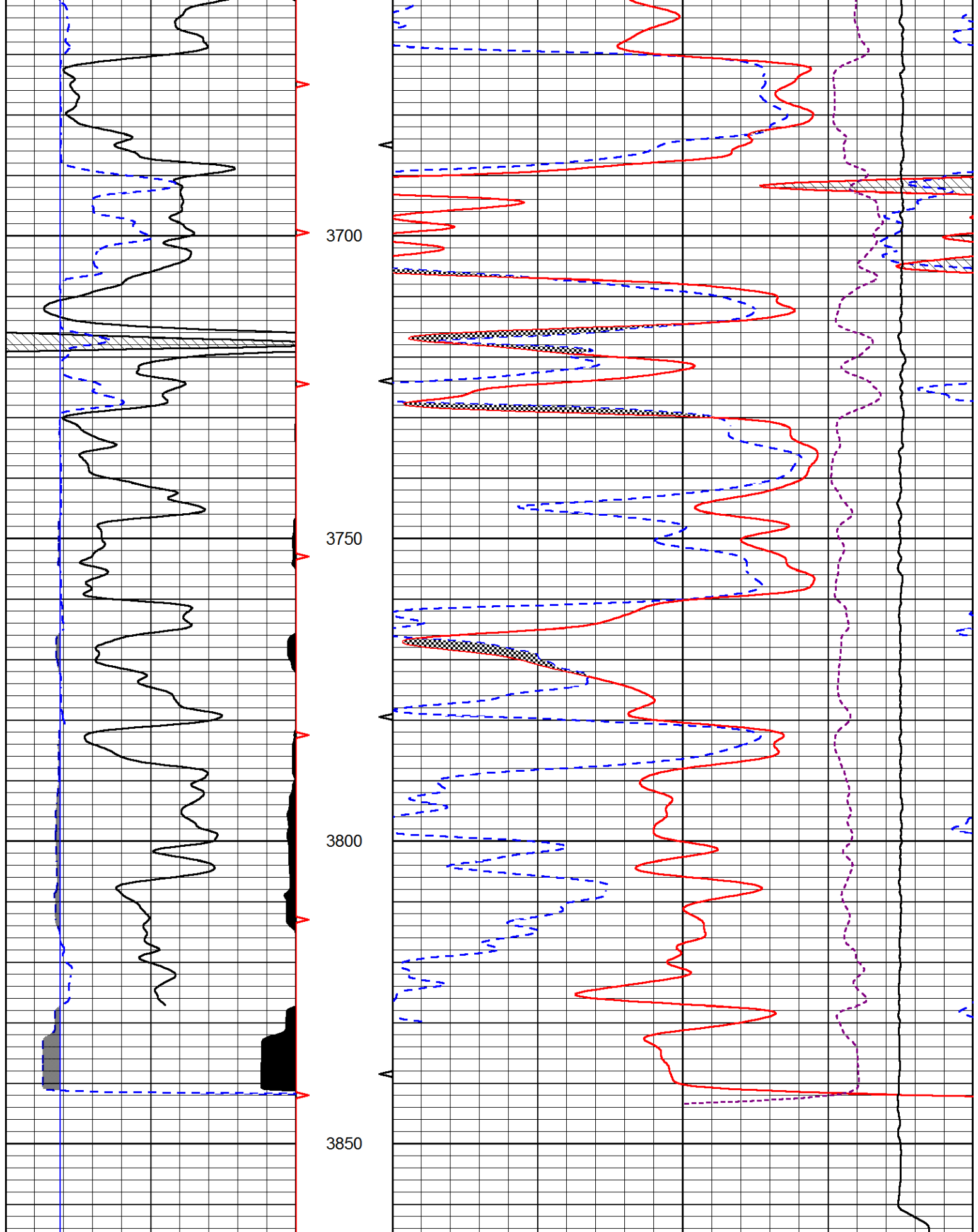












Parameter	Scale
GAMMA RAY (GAPI)	0 to 150
DCAL (in)	6 to 16
CNLS (pu)	30 to -10
DPOR (pu)	30 to -10
LINE TENSION (lb)	10000 to 0

Calibration Report								
Database File	berexco_petracek 7.db							
Dataset Pathname	STKML/pass3.1							
Dataset Creation	Sat Mar 16 15:58:19 2019							
Dual Induction Calibration Report								
Serial-Model:				967 (HT)-PSI HIGH TEMP				
Calibration Performed:				Sun Oct 07 20:24:22 2018				
Loop:	Readings		References			Results		
	Air	Loop	Air	Loop		Gain	Offset	
	Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-19.000
	Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-42.000
Microlog Calibration Report								
Serial-Model:				PSI-01-PSIML				
Performed:				Sun Feb 24 10:53:40 2019				
	Readings		References			Results		
	Zero	Cal	Zero	Cal		m	b	
	Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	26000.0000	-1.7000
	Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-1.3000
	Caliper	1.0001	1.1397	6.5000	18.5000	in	70.0000	-65.8500
Compensated Density Calibration Report								
Serial-Model:				96-916-M&W				
Source / Verifier:				16955B / 2ci				
Master Calibration Performed:				Sat Feb 09 06:25:40 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								
Serial Number:				207-MW				
Tool Model:				M&W				
Calibration Performed:				WED FEB 13 10:30:30 2019				
Detector	Readings		Target		Normalization			
	Zero	Cal	Zero	Cal	Gain	Offset	Gain	
Normal	0.0000	1.0000	0.0000	1.0000	26000.0000	-1.7000	0.0000	
Inverse	0.0000	1.0000	0.0000	1.0000	30000.0000	-1.3000	0.0000	
Caliper	1.0001	1.1397	6.5000	18.5000	70.0000	-65.8500	0.0000	

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:	89	
Tool Model:	M&W	
Calibration Performed:	Fri Aug 24 12:16:10 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps



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