



Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **PROSPECT OIL & GAS CORP.**

Well ORTH-ALTENBAUMER #1-12

Field CHASE SILICA

County **RICE** State **KANSAS**

Location: API #: 15-159-22866-00-00

1650' FNL & 1150' FWL

SEC 12 TWP 19S RGE 10W

DILMEL

Company	PROSPECT OIL & GAS CORP.
Well	ORTH-ALTENBAUMER #1-12
Field	CHASE SILICA
County	RICE
State	KANSAS

Permanent Datum	GROUND LEVEL	Elevation	1723
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Elevation	
K.B.	1731'
D.F.	N/A
G.L.	1723'

Date	6/20/2019
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Run Number	ONE
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Type Log	CNL/CDL

Depth Driller	3370'
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Depth Logger	3370'
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Bottom Logged Interval	3369
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Top Logged Interval	2500'
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Type Fluid in Hole	CHEMICAL
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Salinity, PPM CL	6,000
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Density	9.3
...	...

Level	100
Max Dec Items	100

Operating Time	3 HOURS
Max. Rec. Temp.	110

Operating Unit	Books	HA
Equipment	1	1

Equipment -- Location	1-27	11/2
Recorded By	IAN MARE	

Witnessed By	IAN WADDE
Witnessed By	BRAD HITCH

Wavelength (nm)	Intensity (a.u.)
200	0.00
210	0.00
220	0.00
230	0.00
240	0.00
250	0.00
260	0.00
270	0.00
280	0.00
290	0.00
300	0.00
310	0.00
320	0.00
330	0.00
340	0.00
350	0.00
360	0.00
370	0.00
380	0.00
390	0.00
400	0.00
410	0.00
420	0.00
430	0.00
440	0.00
450	0.00
460	0.00
470	0.00
480	0.00
490	0.00
500	0.00
510	0.00
520	0.00
530	0.00
540	0.00
550	0.00
560	0.00
570	0.00
580	0.00
590	0.00
600	0.00
610	0.00
620	0.00
630	0.00
640	0.00
650	0.00
660	0.00
670	0.00
680	0.00
690	0.00
700	0.00
710	0.00
720	0.00
730	0.00
740	0.00
750	0.00
760	0.00
770	0.00
780	0.00
790	0.00
800	0.00
810	0.00
820	0.00
830	0.00
840	0.00
850	0.00
860	0.00
870	0.00
880	0.00
890	0.00
900	0.00

Bin No	Bit	From	To

ONE	12 25"	0'	305'
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TWO	7 875"	305'	TD
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	3 3 0	3 3 0	0 0 0	i
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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.

CLAFLIN, KS.
EAST TO RD 4, SOUTH TO RD 1,
EAST 2 MILES, NORTH 1/2 MILE,
EAST 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: IAN MABB
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BRAD HUTCHINSON
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 110	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 7	mmho/m 22	mV 195	degF 75	Off	ft 0

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			ML-PSIML (PSI-01)	7.58	4.00	65.00
SSD	27.93			GO Micro log tools converted to Simplec electronics			
MCAL	19.83						
MI	19.83						
MN	19.83						
RLL3F	15.80						
RLL3	15.80						
CILD	8.00			DIL-PSI HIGH TEMP (1039)	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: prospect_orth-altenbaumer_1_12.db: field/well/stackmel/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MAIN PASS

Database File prospect_orth-altenbaumer_1_12.db
Dataset Pathname stackmel/pass3.1
Presentation Format _cdl
Dataset Creation Thu Jun 20 08:48:08 2019
Charted by Depth in Feet scaled 1:600

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

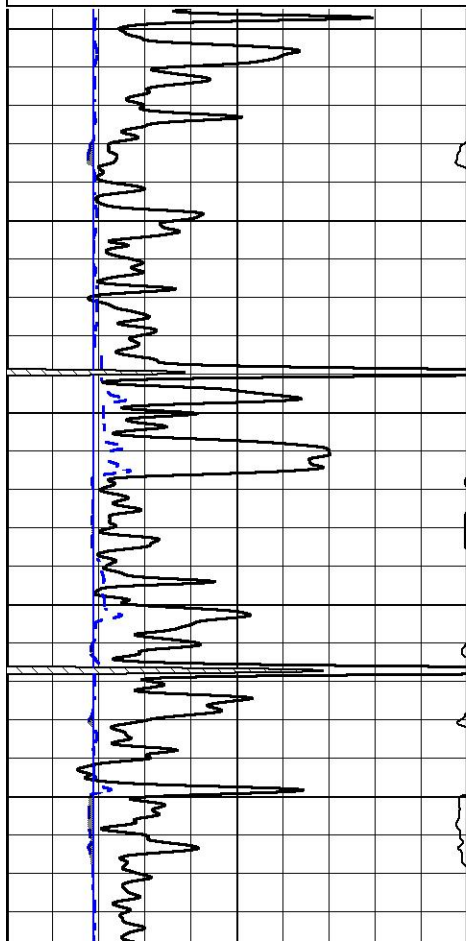
COMPENSATED DENSITY
(2.71 MA)

30 (pu) -10

2 BULK DENSITY (g/cc) 3

15000 LINE TENSION (lb) 0

-0.25 CORRECTION (g/cc) 0.25



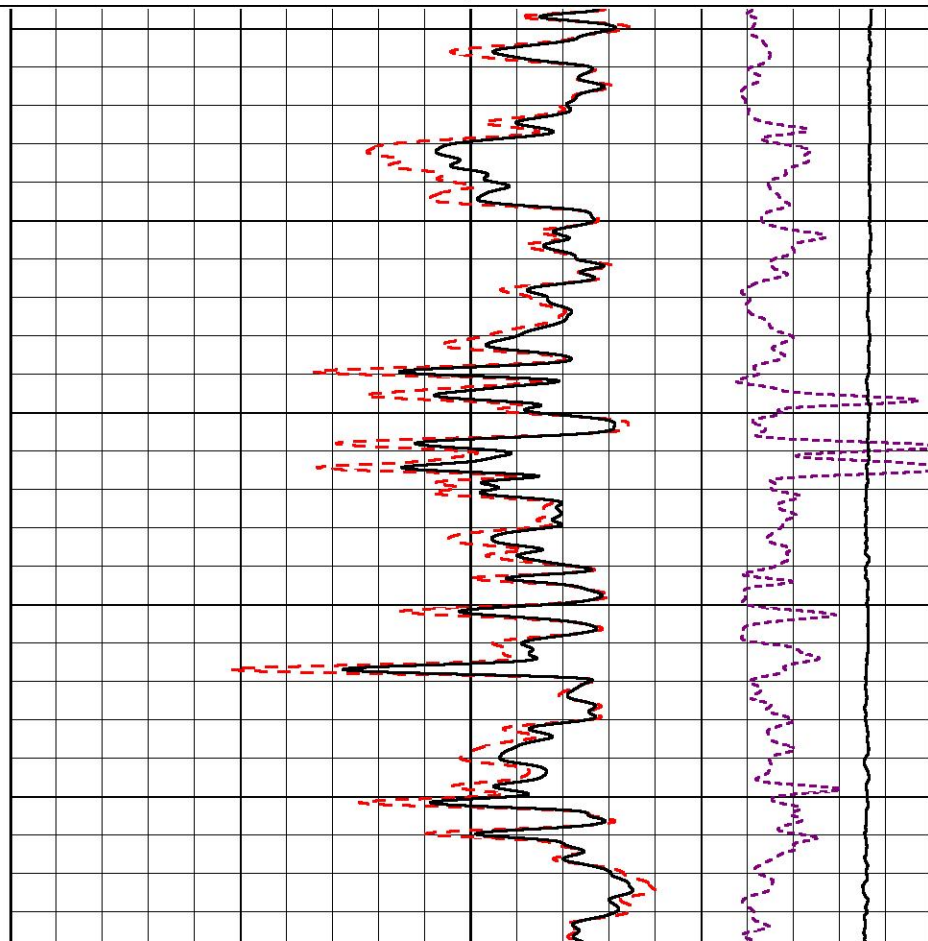
2500

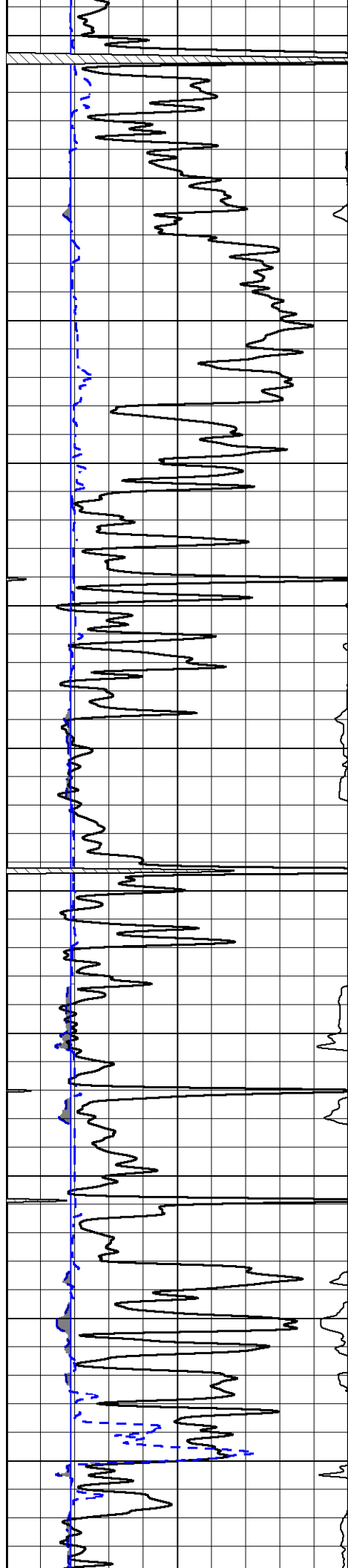
2550

2600

2650

2700





2750

2800

2850

2900

2950

3000

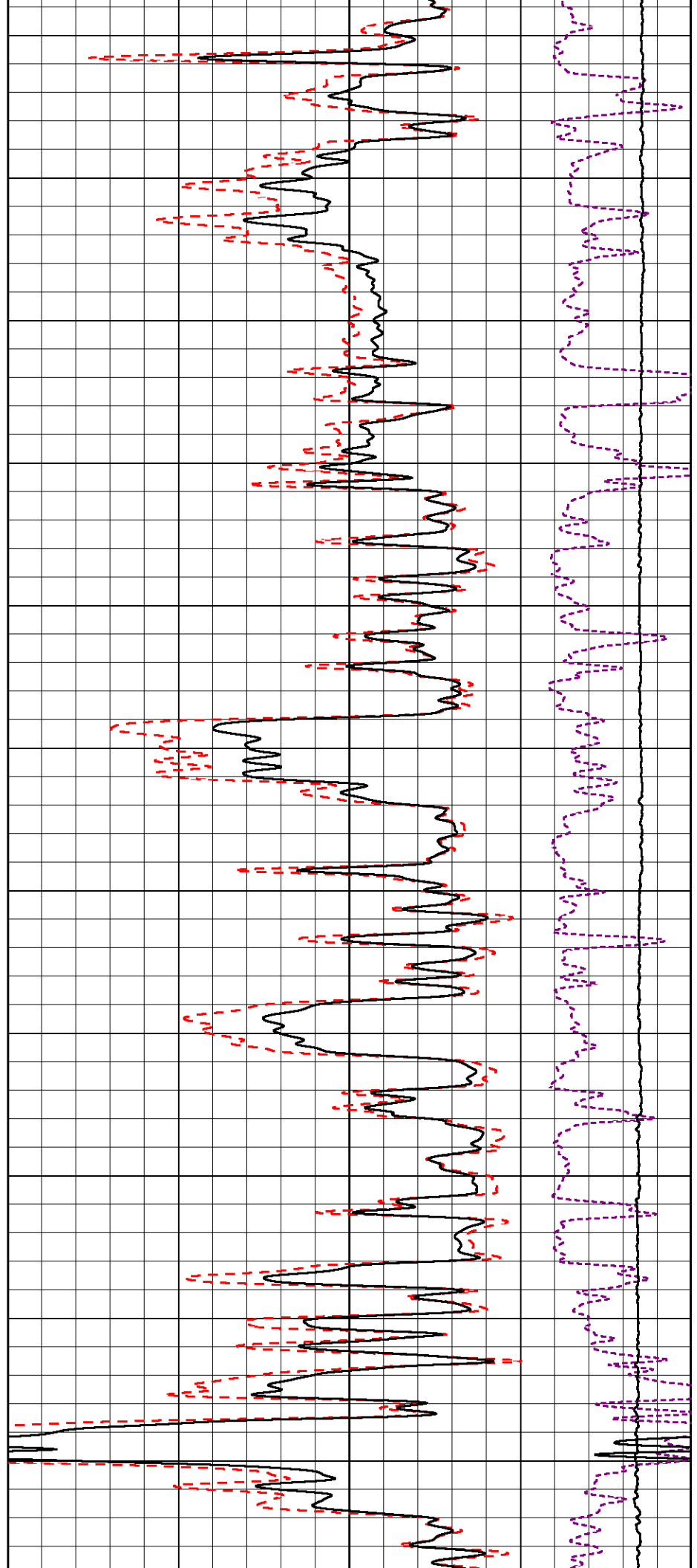
3050

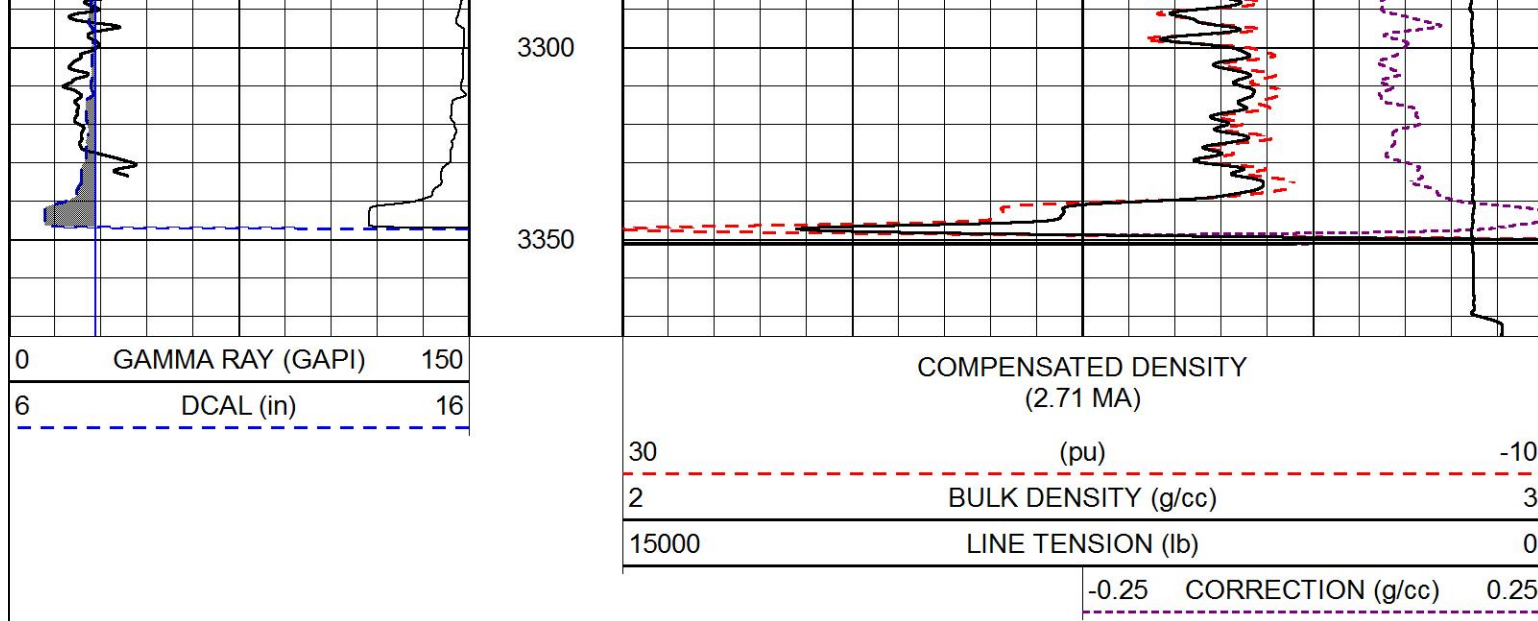
3100

3150

3200

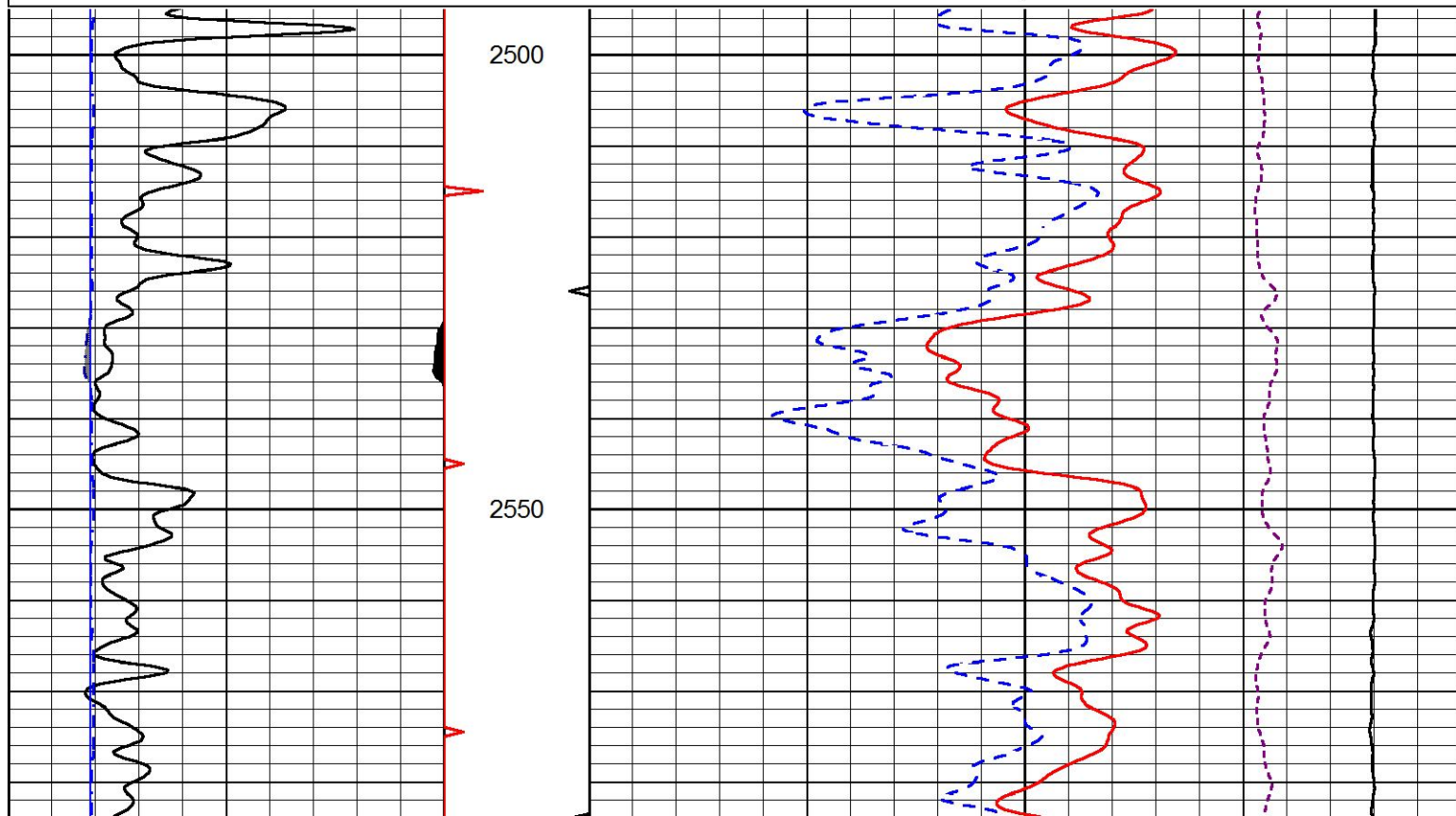
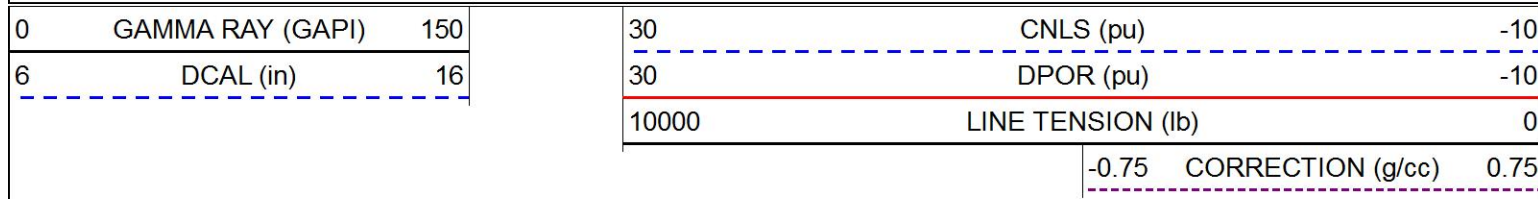
3250

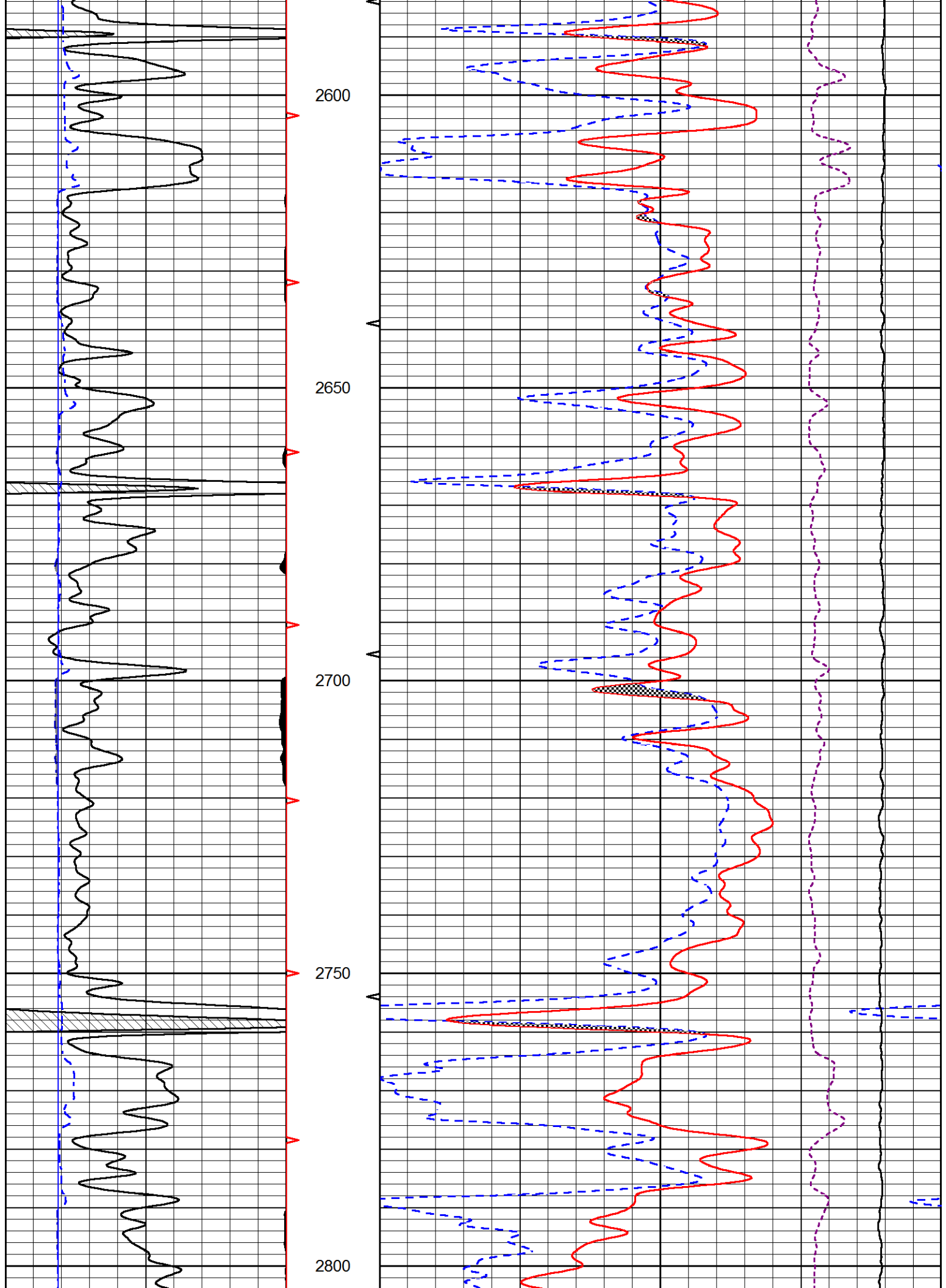


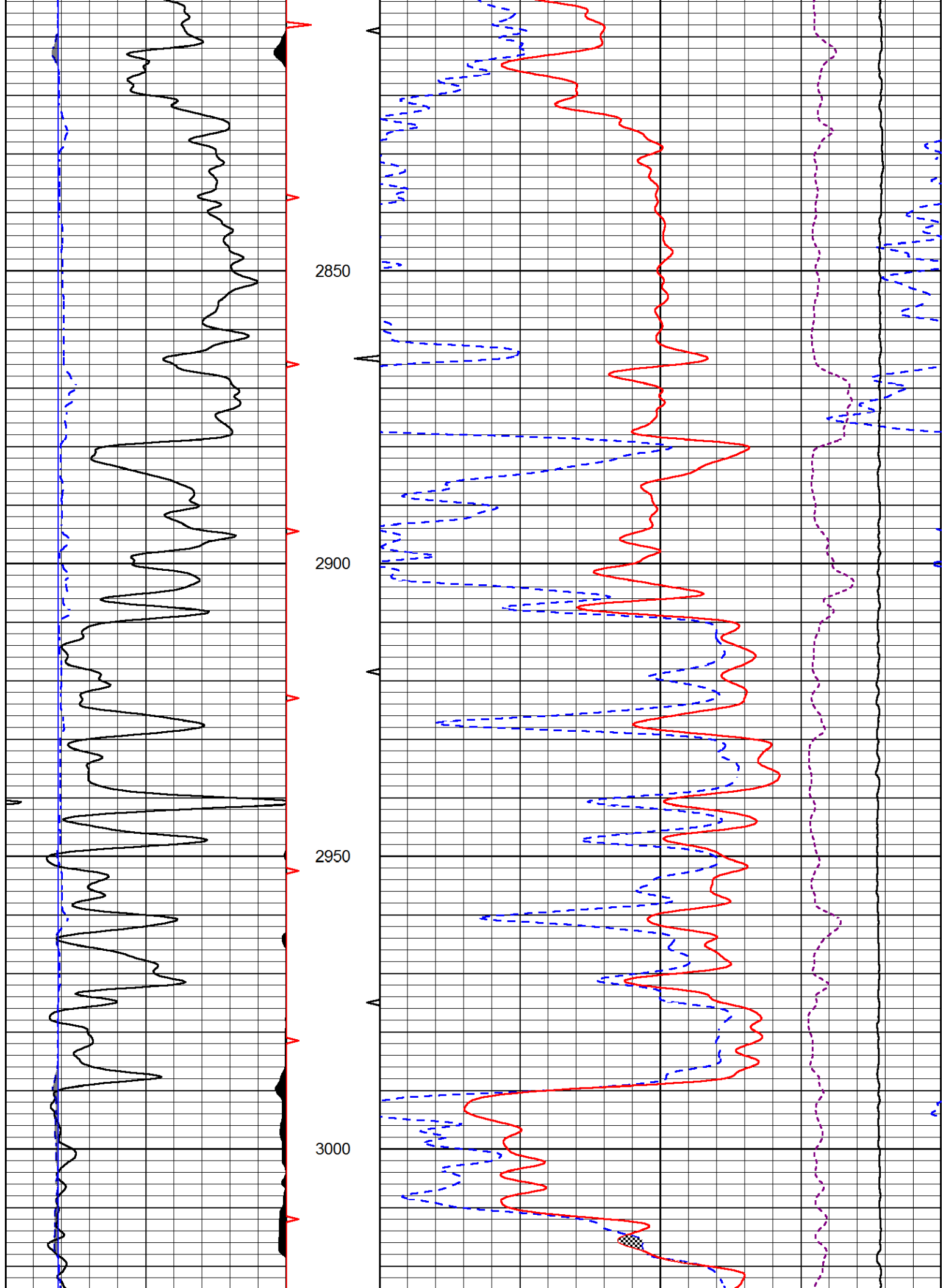


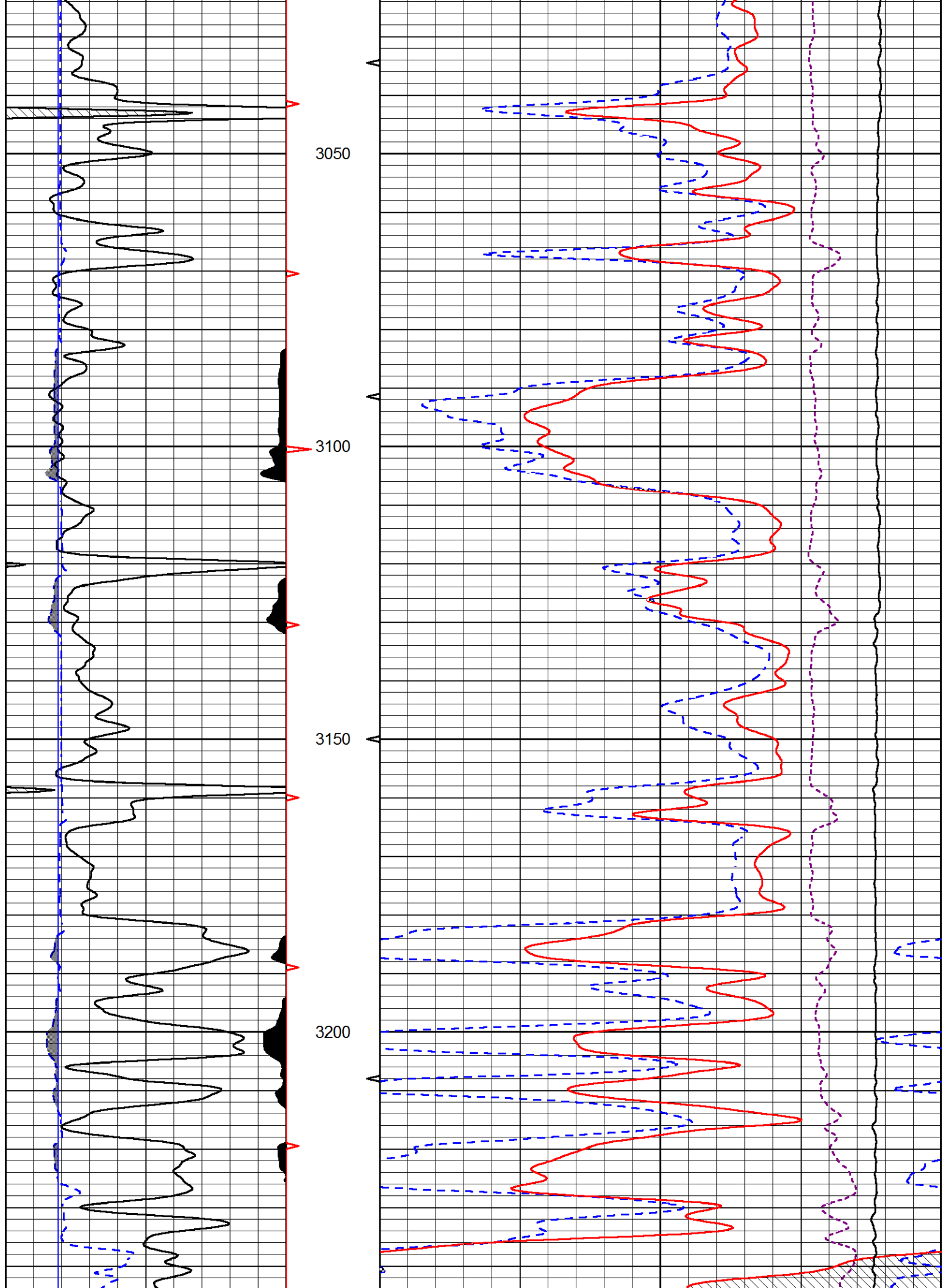
MAIN PASS

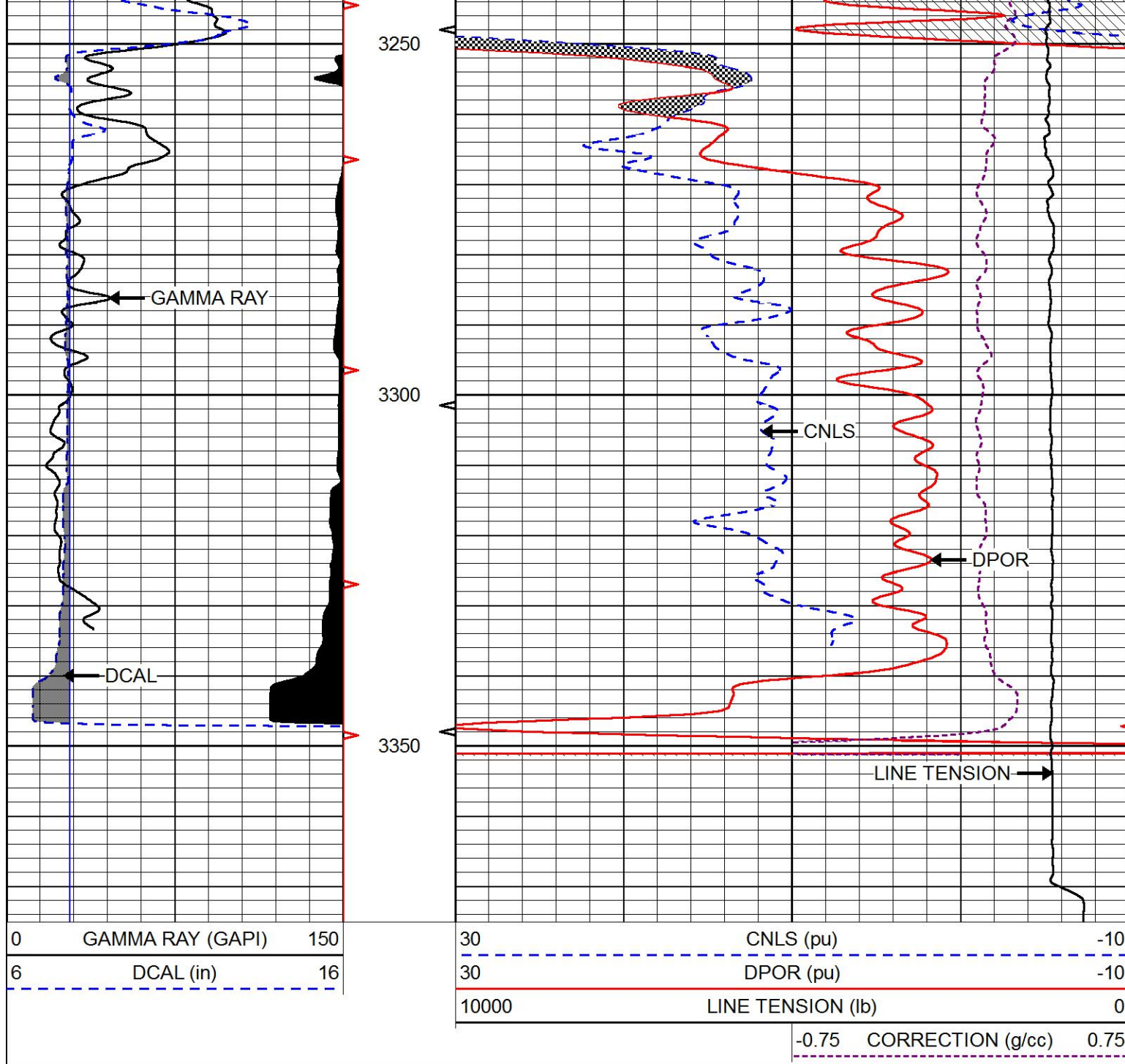
Database File prospect_orth-altenbaumer_1_12.db
Dataset Pathname stackmel/pass3.1
Presentation Format _CNDLS~1
Dataset Creation Thu Jun 20 08:48:08 2019
Charted by Depth in Feet scaled 1:240





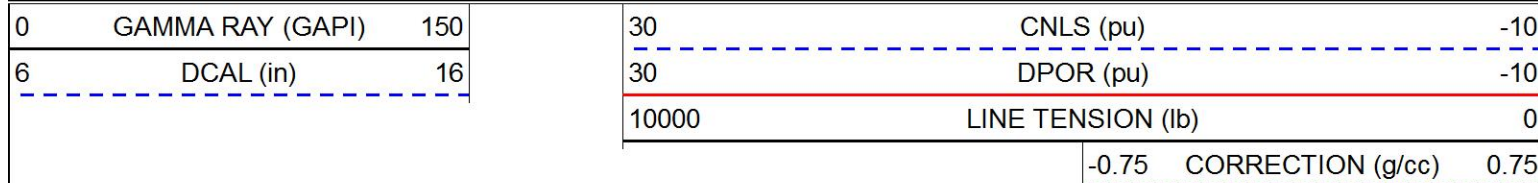


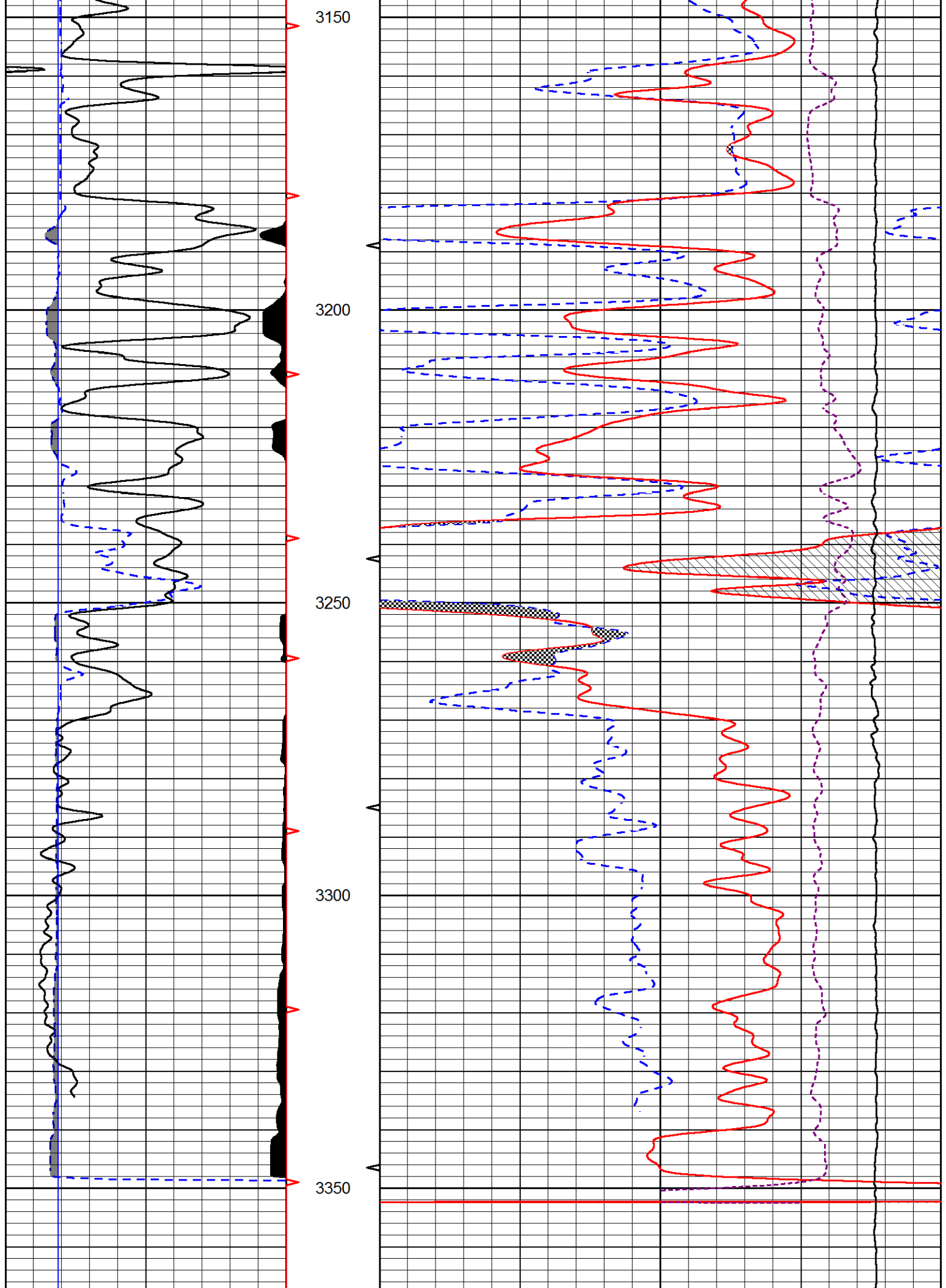




REPEAT SECTION

Database File: prospect_orth-altenbaumer_1_12.db
 Dataset Pathname: stackmel/pass2.1
 Presentation Format: _CNDLS~1
 Dataset Creation: Thu Jun 20 08:55:55 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

Calibration Report	
Database File	prospect_orth-altenbaumer_1_12.db
Dataset Pathname	stackmel/pass3.1
Dataset Creation	Thu Jun 20 08:48:08 2019

Dual Induction Calibration Report

Serial-Model:	1039-PSI HIGH TEMP
Calibration Performed:	Fri Jun 14 09:48:37 2019

		Readings				References				Results	
Loop:		Air	Loop			Air	Loop			Gain	Offset
Deep		167.000	835.000			0.000	255.800	mmho/m		0.430	-48.000
Medium		0.000	1348.000			142.000	255.800	mmho/m		0.365	-56.000

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	38000.0000	-1.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	75000.0000	-2.6000
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	2.655	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
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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
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



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Field CHASE SILICA
County RICE
State KANSAS