



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company CYNOSURE ENERGY, LLC
Well LEIKER NO. 2-25-15-20
Field WILDCAT
County ELLIS State KANSAS

Location: API #: 15-051-26848-00-00

Other Services

SE/4 NE/4 SE/4 SW/4
740' FSL & 2,506' FWL
SEC 25 TWP 15S RGE 20W

DIL
MEL/BHCS

Permanent Datum GROUND LEVEL Elevation 2123'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2131'
D.F. N/A
G.L. 2123'

Date 11/1/2016

Run Number ONE

Type Log CNL/CDL

Depth Driller 3800'

Depth Logger 3799'

Bottom Logged Interval 3778'

Top Logged Interval 2900'

Type Fluid In Hole CHEMICAL

Salinity, PPM CL 6800

Density 9.0

Level FULL

Max. Rec. Temp. F 114

Operating Rig Time 4 HOURS

Equipment -- Location 108 COLBY

Recorded By J. LONG

Witnessed By CHARLIE STURDAVANT

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	1371'	8.625"	23#	00'	1371'
TWO	7.875"	1371'	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.

SCHOENCHEN, 9 1/2 WEST (1/2 WEST OF 160TH AVENUE), 1/8 NORTH, WEST 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: J. LONG
Operator: C. PFEIFER
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: CHARLIE STURDAVANT
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 114	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 -160	degF 55	Off	ft 3799

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	33.00			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	29.90			CNT-M&W (tk10-MW)	5.50	3.50	100.00
	29.15						
LSD DCAL SSD	20.85			CDL-M&W (71-914)	8.50	4.00	250.00
	20.83						
	20.35						
RLL3 RLL3F	15.80 15.79			DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00						

CILM 4.70

SP 0.20

Dataset: cynosureenergy_leiker_2-25-15-20.db: field/well/stack/pass1
Total length: 35.50 ft
Total weight: 620.00 lb
O.D.: 4.00 in



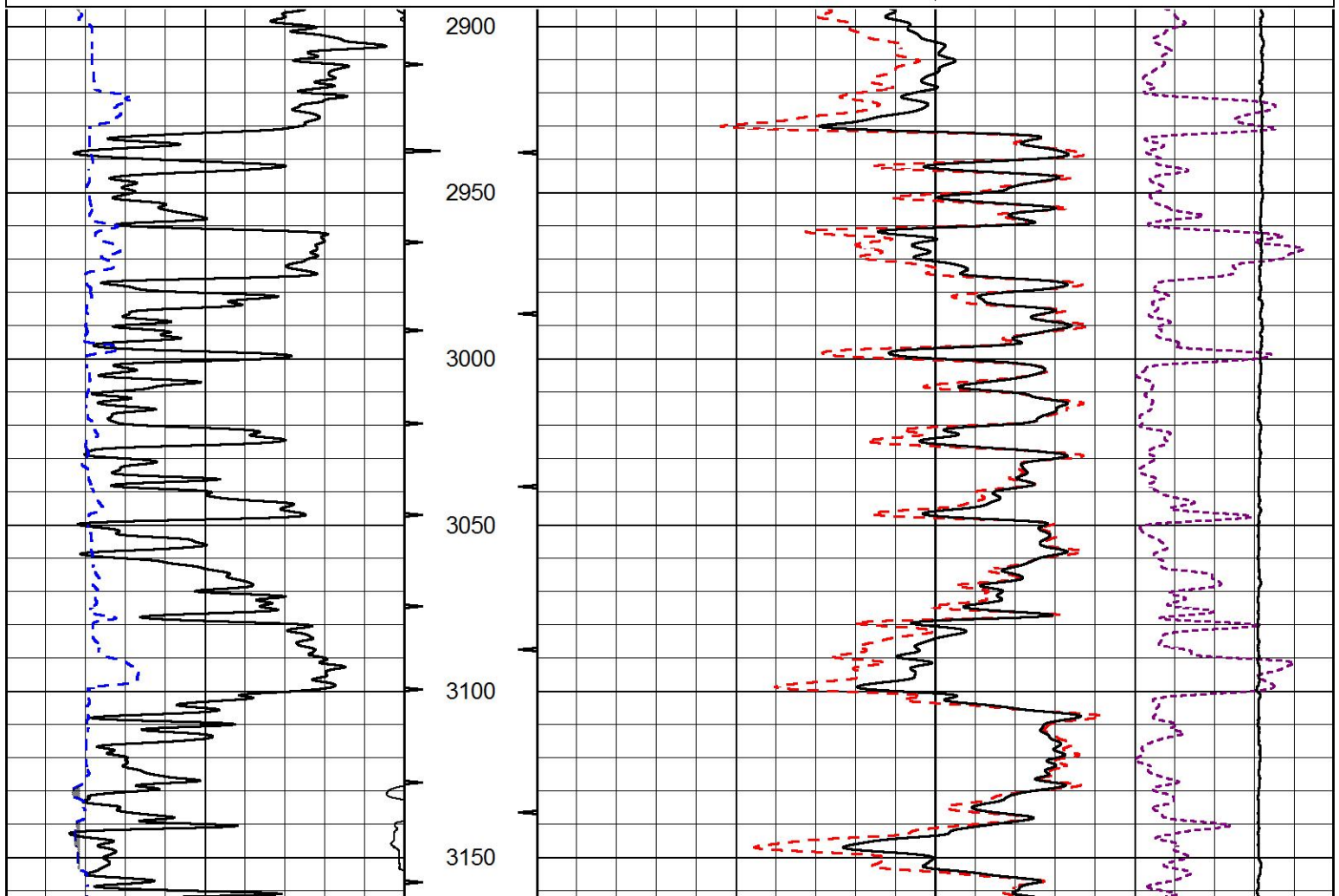
2" SCALE BULK DENSITY

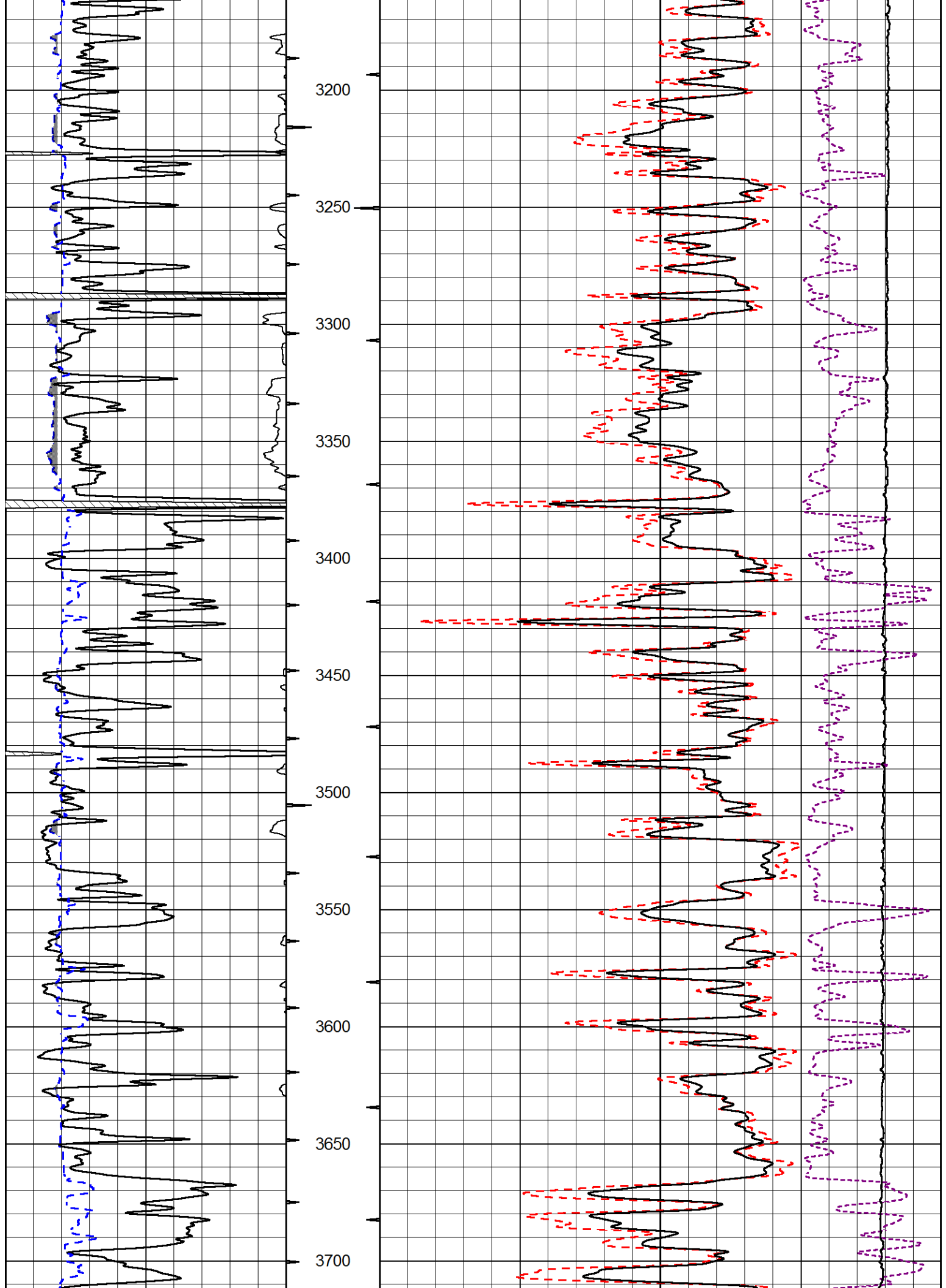
MAIN PASS

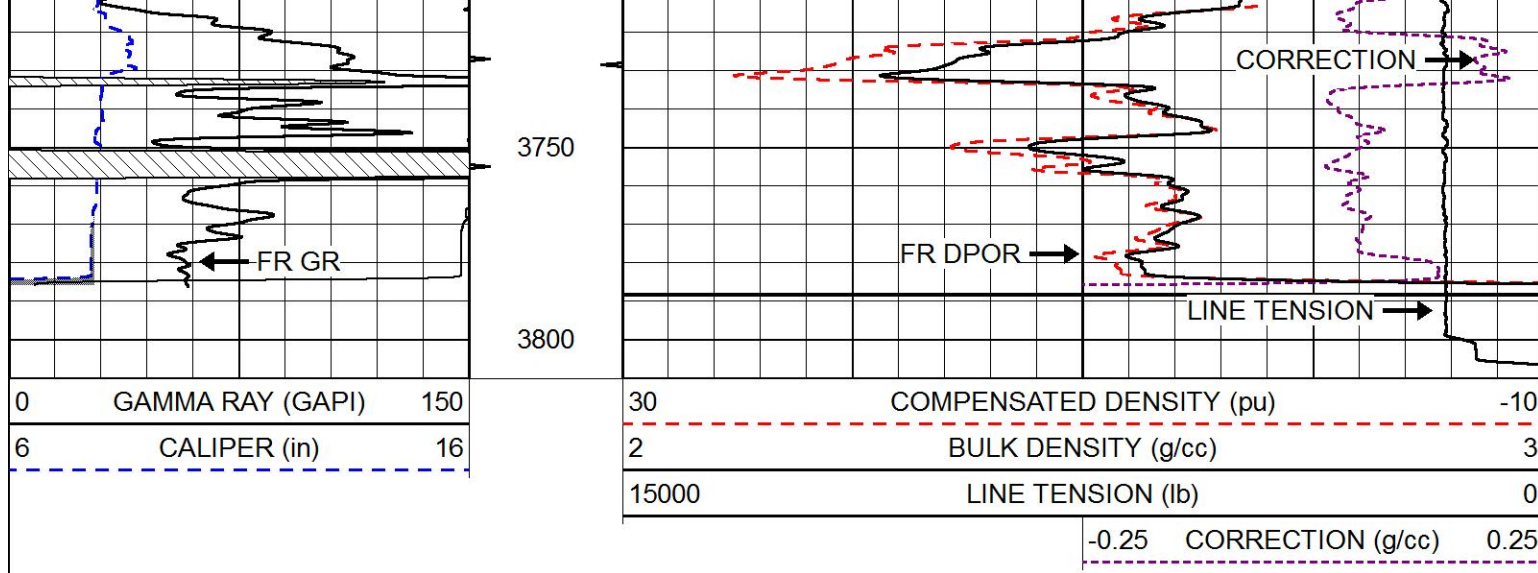
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Dataset Pathname stack/pass4.3
Presentation Format cdl
Dataset Creation Wed Nov 02 01:08:38 2016
Charted by Depth in Feet scaled 1:600

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

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

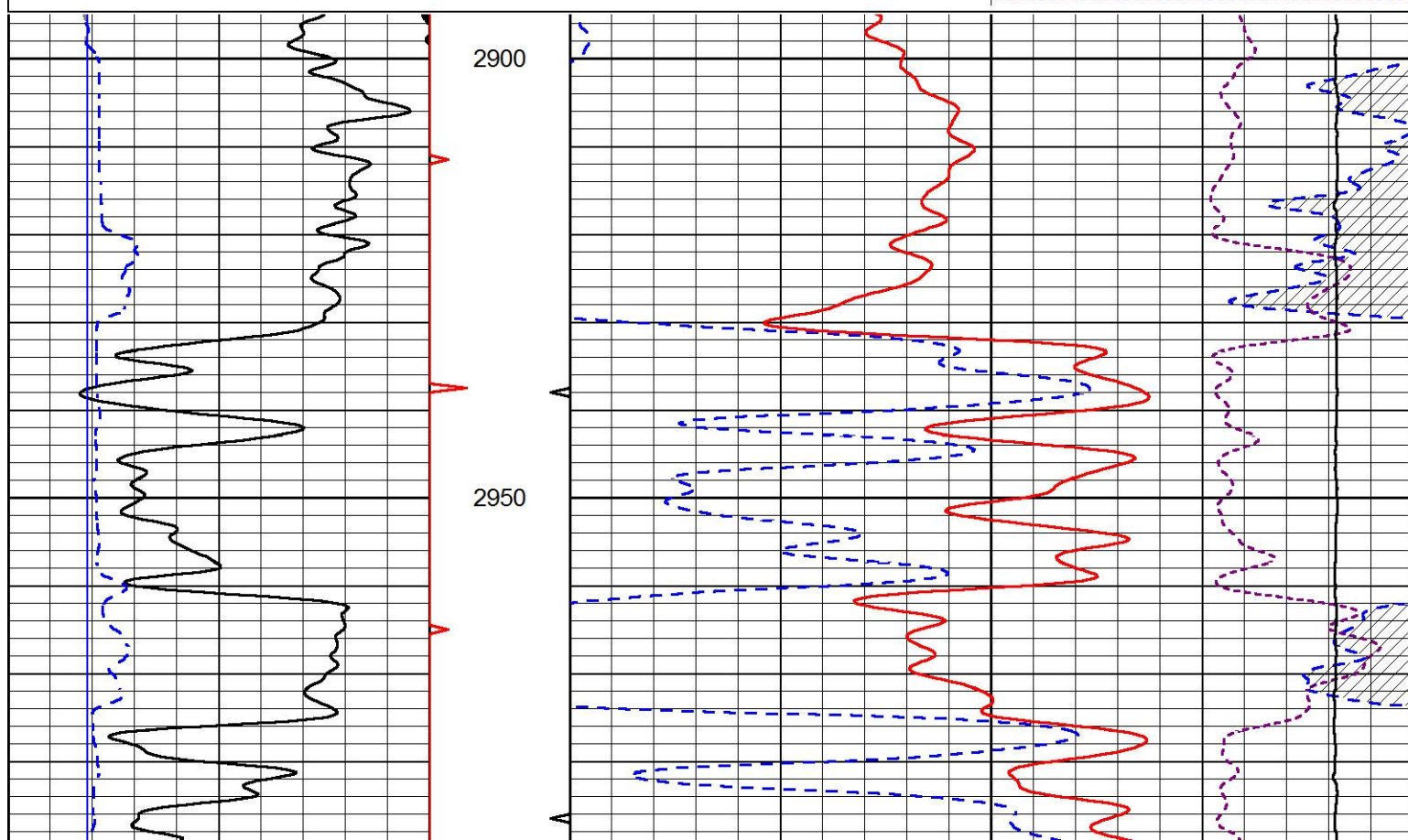
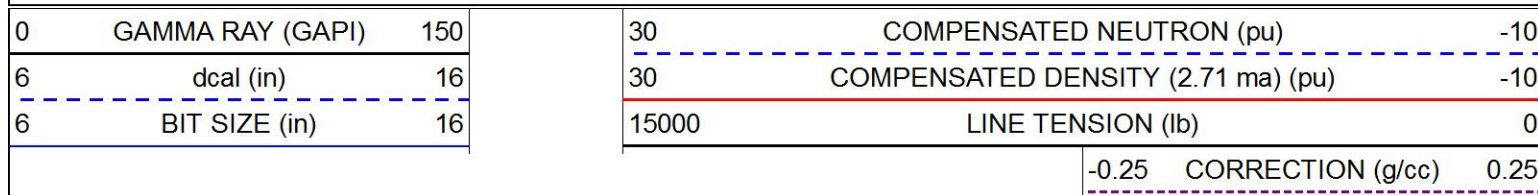


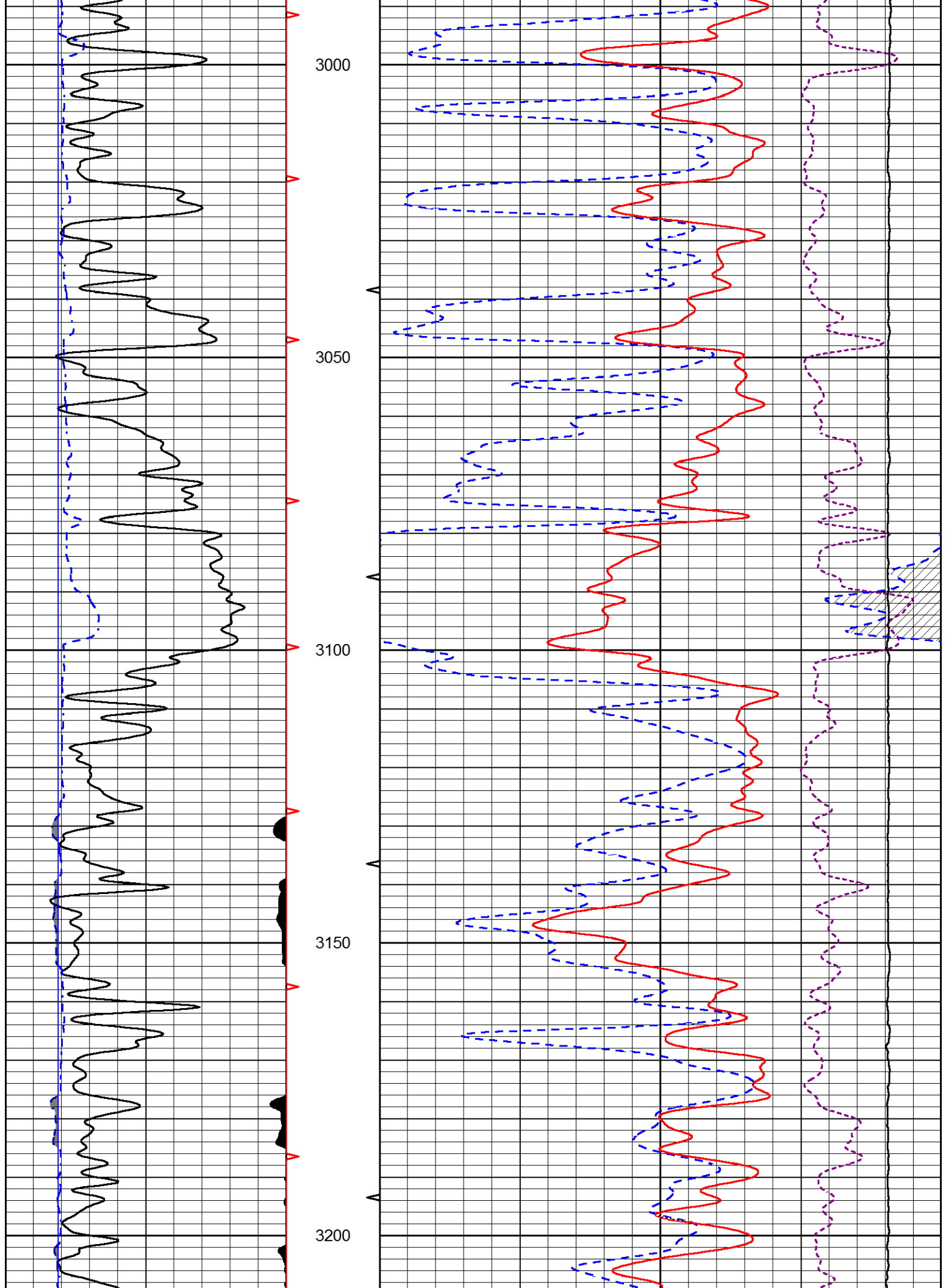


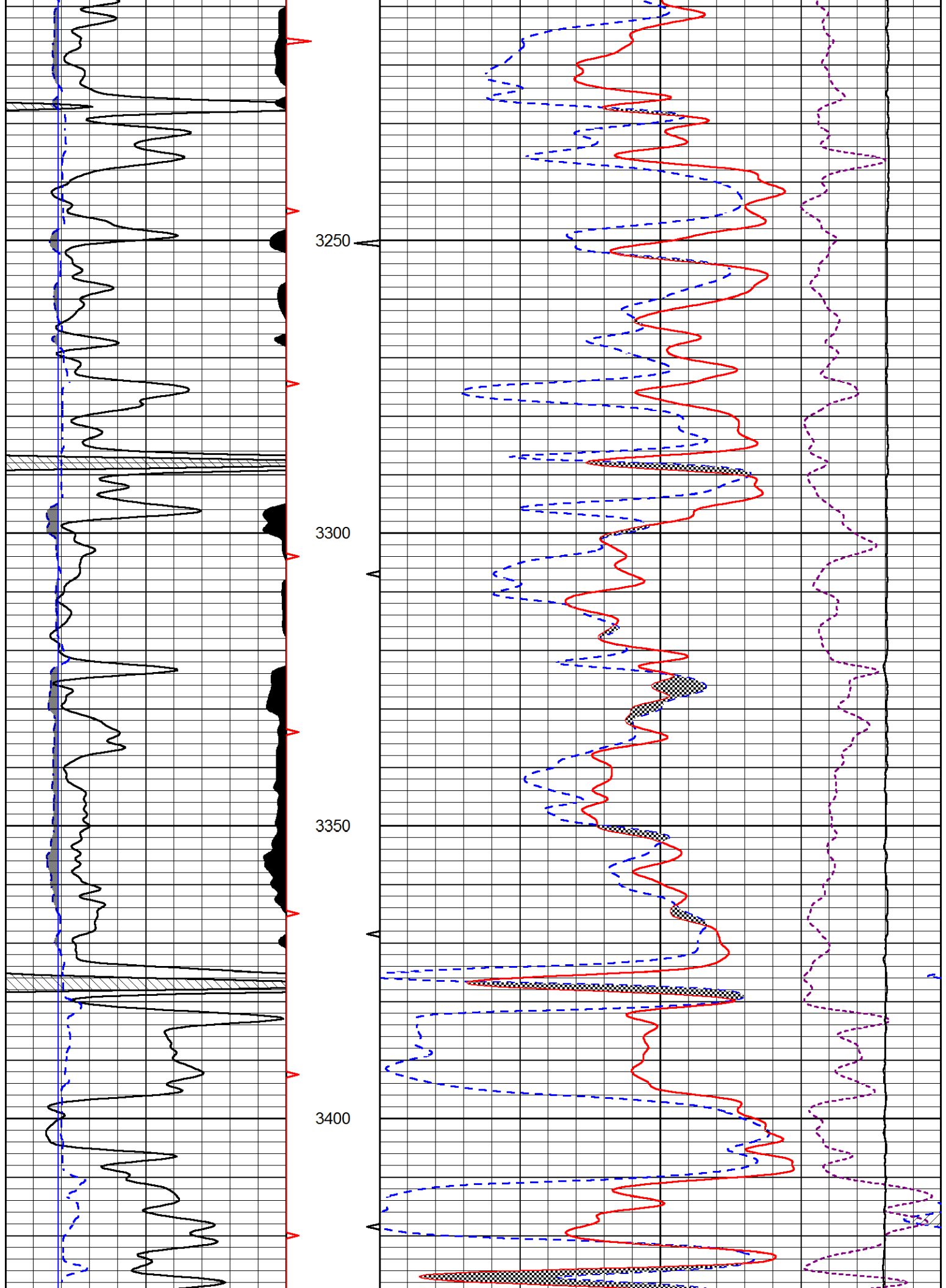


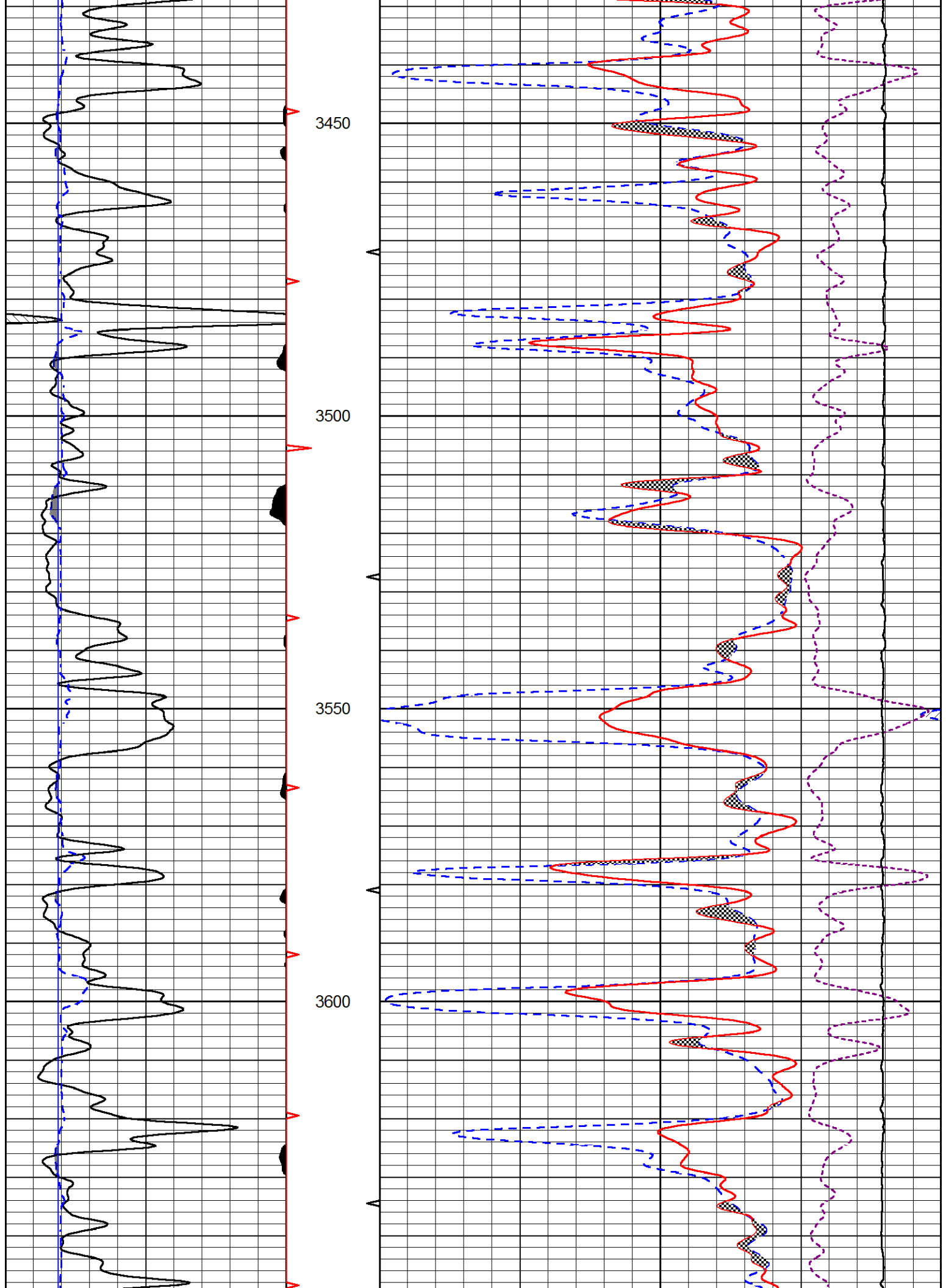
MAIN PASS

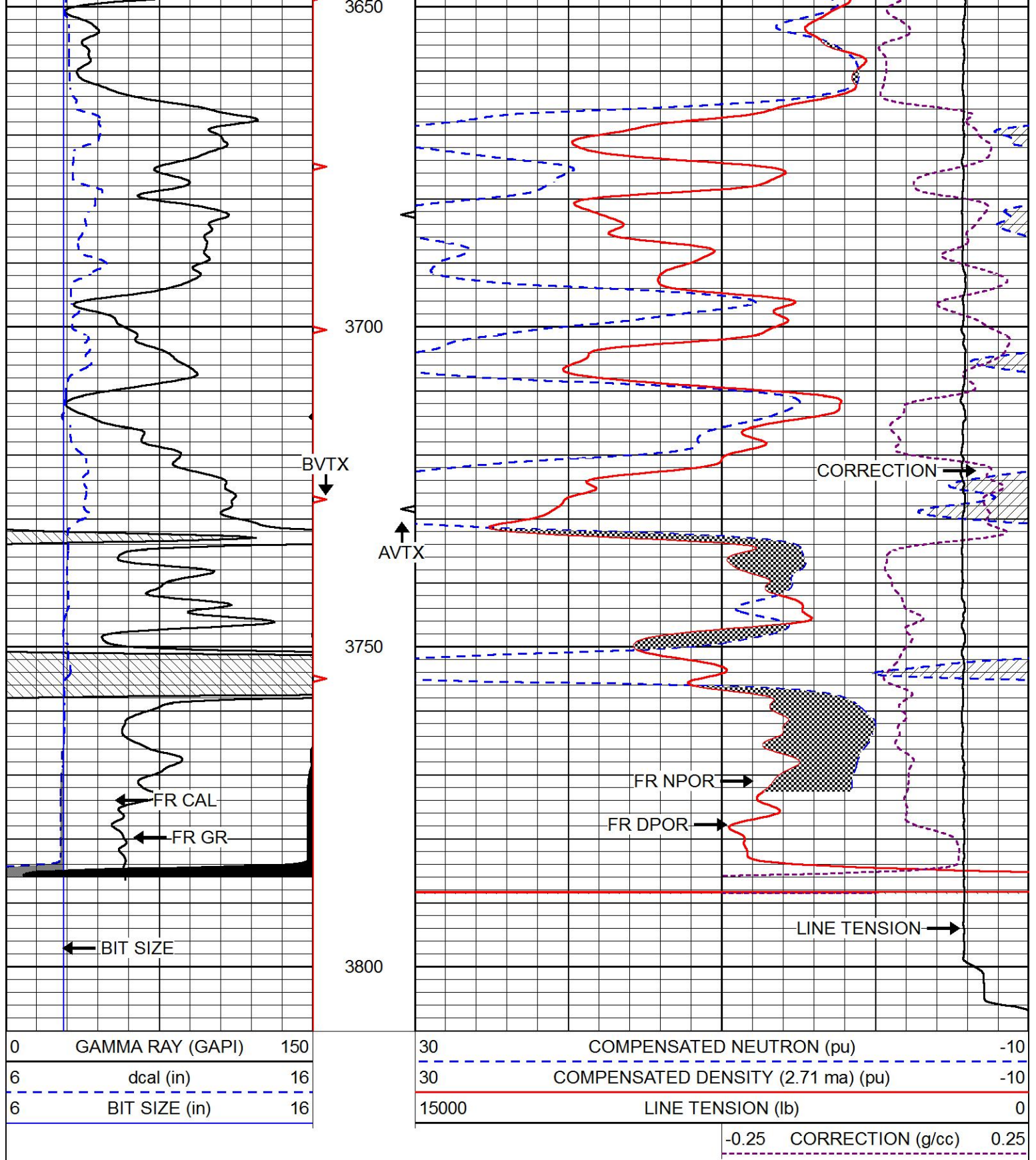
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 Dataset Creation: Wed Nov 02 01:08:16 2016
 Charted by: Depth in Feet scaled 1:240









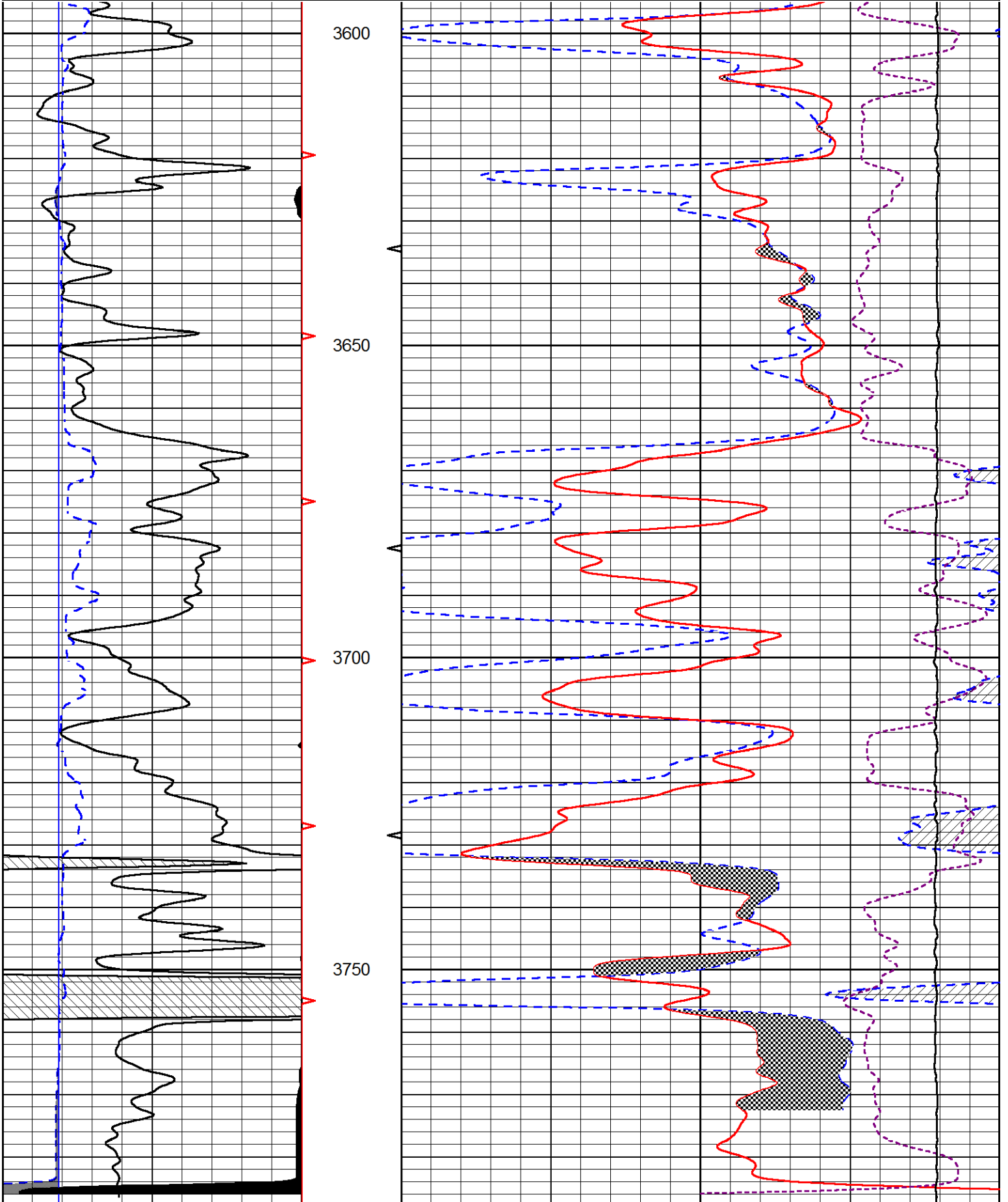


REPEAT SECTION

Database File: cynosureenergy_leiker_2-25-15-20.db
 Dataset Pathname: stack/pass3.1
 Presentation Format: cndlspec
 Dataset Creation: Wed Nov 02 02:22:17 2016

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	COMPENSATED NEUTRON (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0
-0.25 CORRECTION (g/cc) 0.25		



Long Spaced 100.00 cps 1000.00 cps 1.0000

Gamma Ray Calibration Report

Serial Number:	89-M&W	
Tool Model:	M&W	
Calibration Performed:	Fri Sep 30 22:06:47 2016	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



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Well	LEIKER NO. 2-25-15-20
Field	WILDCAT
County	ELLIS
State	KANSAS