



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **BLUE GOOSE DRILLING CO., INC.**
Well **HINEMAN FARMS #1**
Field **WILDCAT**
County **LANE** State **KANSAS**

Location: API #: 15-101-22609-00-00

Other Services

NE NE NW
330' FNL & 2310' FWL
SEC 16 TWP 18S RGE 27W

DIL/MEL

Permanent Datum **GROUND LEVEL** Elevation **2691'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 2701'
D.F. N/A
G.L. 2691'

Date **8/25/2018**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **4660'**

Depth Logger **4662'**

Bottom Logged Interval **4641'**

Top Logged Interval **3600'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **3100**

Density **9.2**

Level **FULL**

Max. Rec. Temp. F **123**

Operating Rig Time **4 HOURS**

Equipment -- Location **91 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **KEN WALLACE**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0'	261'	8.625"	23#	0'	261'
TWO	7.875"	261'	TD				

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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.

DIGHTON,
6 EAST TO TURKEY RED RD, 1 NORTH TO TB,
WEST INTO

Log Measured From: **KELLY BUSHING** 10 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

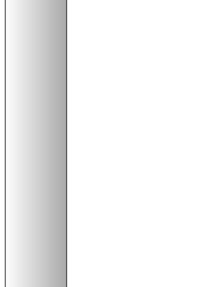
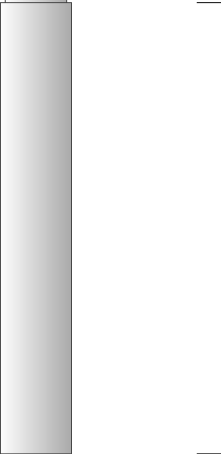
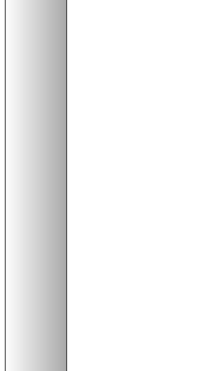
Engineer: **D. SCHMIDT**
Operator:
Operator:
Operator:

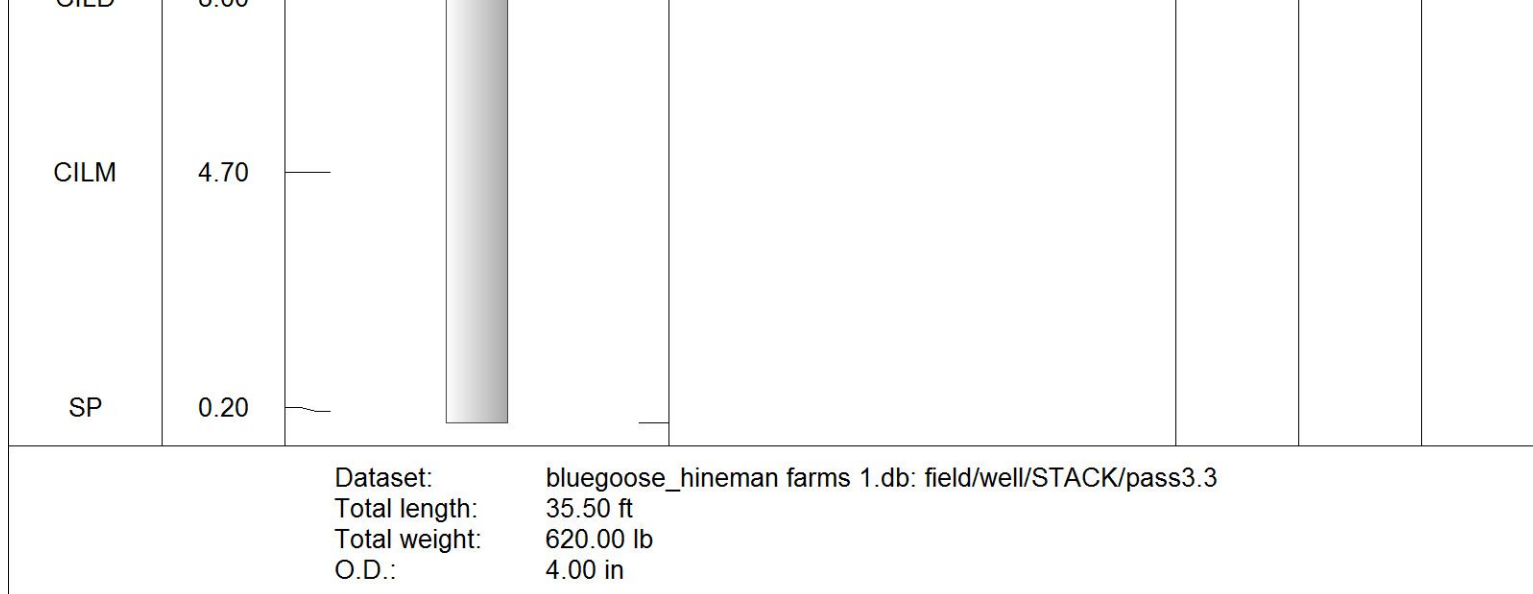
This Log Record Was Witnessed By

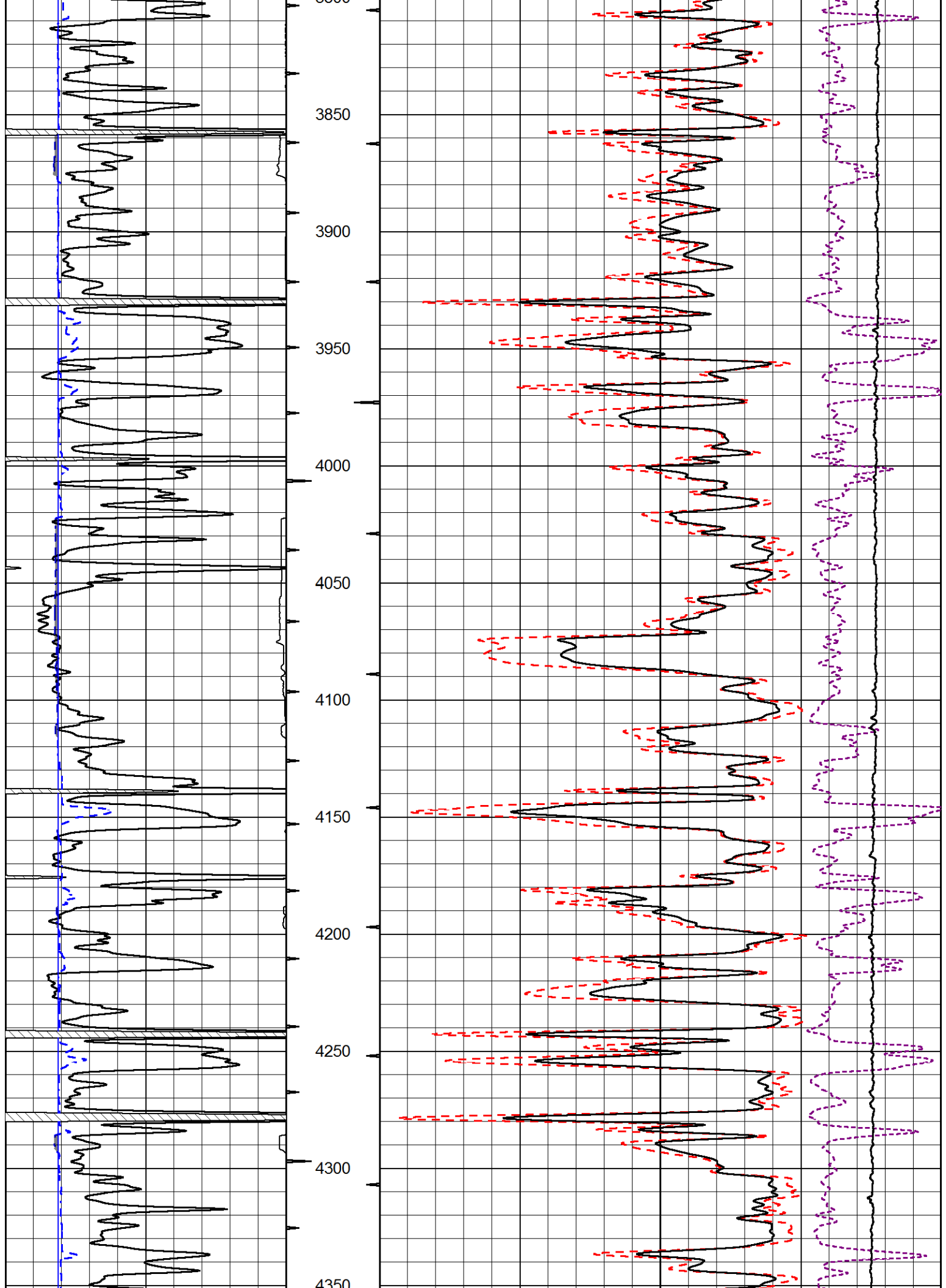
Primary Witness: **KEN WALLACE**
Secondary Witness:
Secondary Witness:
Secondary Witness:

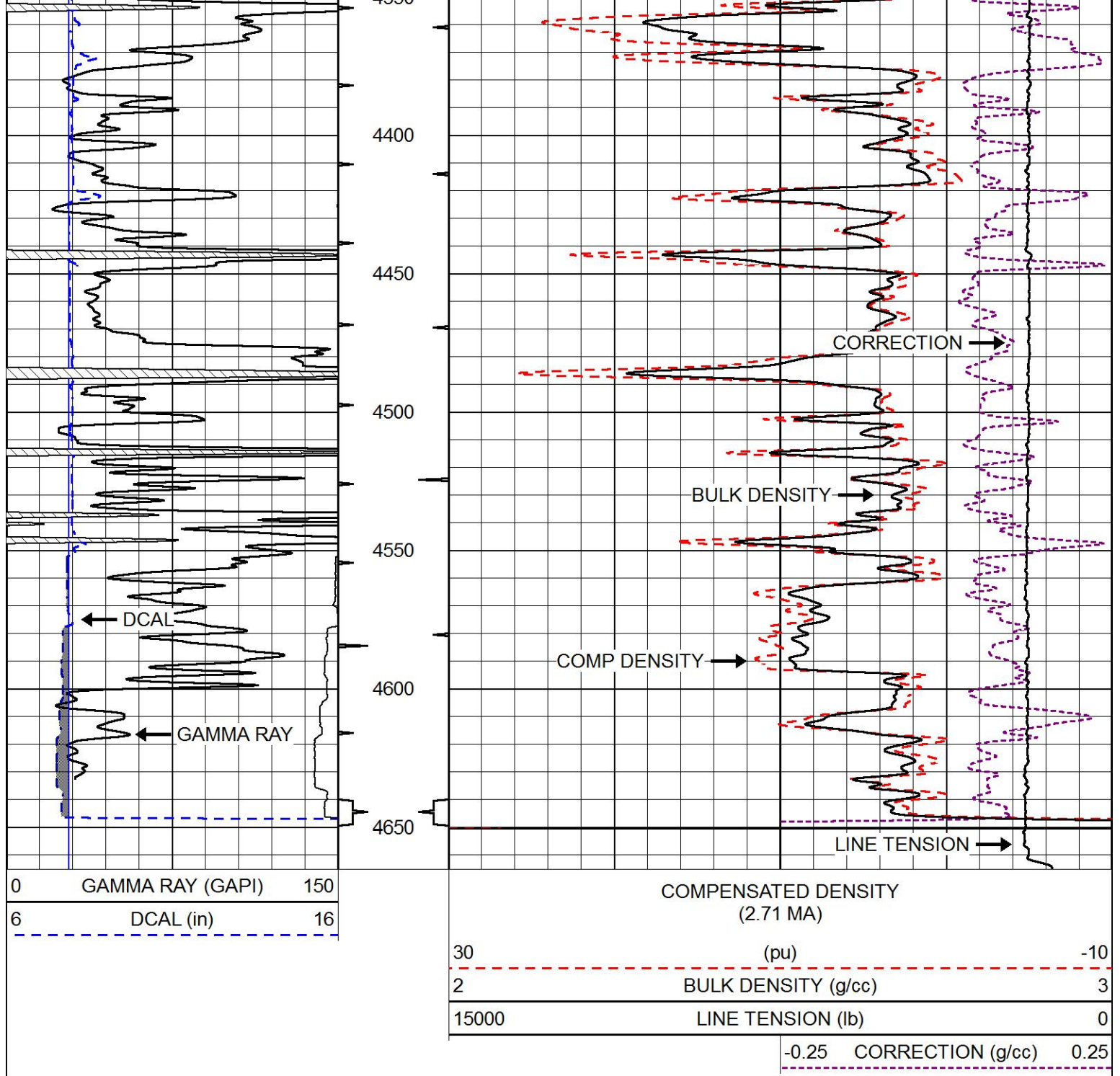
Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	337	0
SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	80	0	5.5	0	4660	123	7.875

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 (797-152)	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



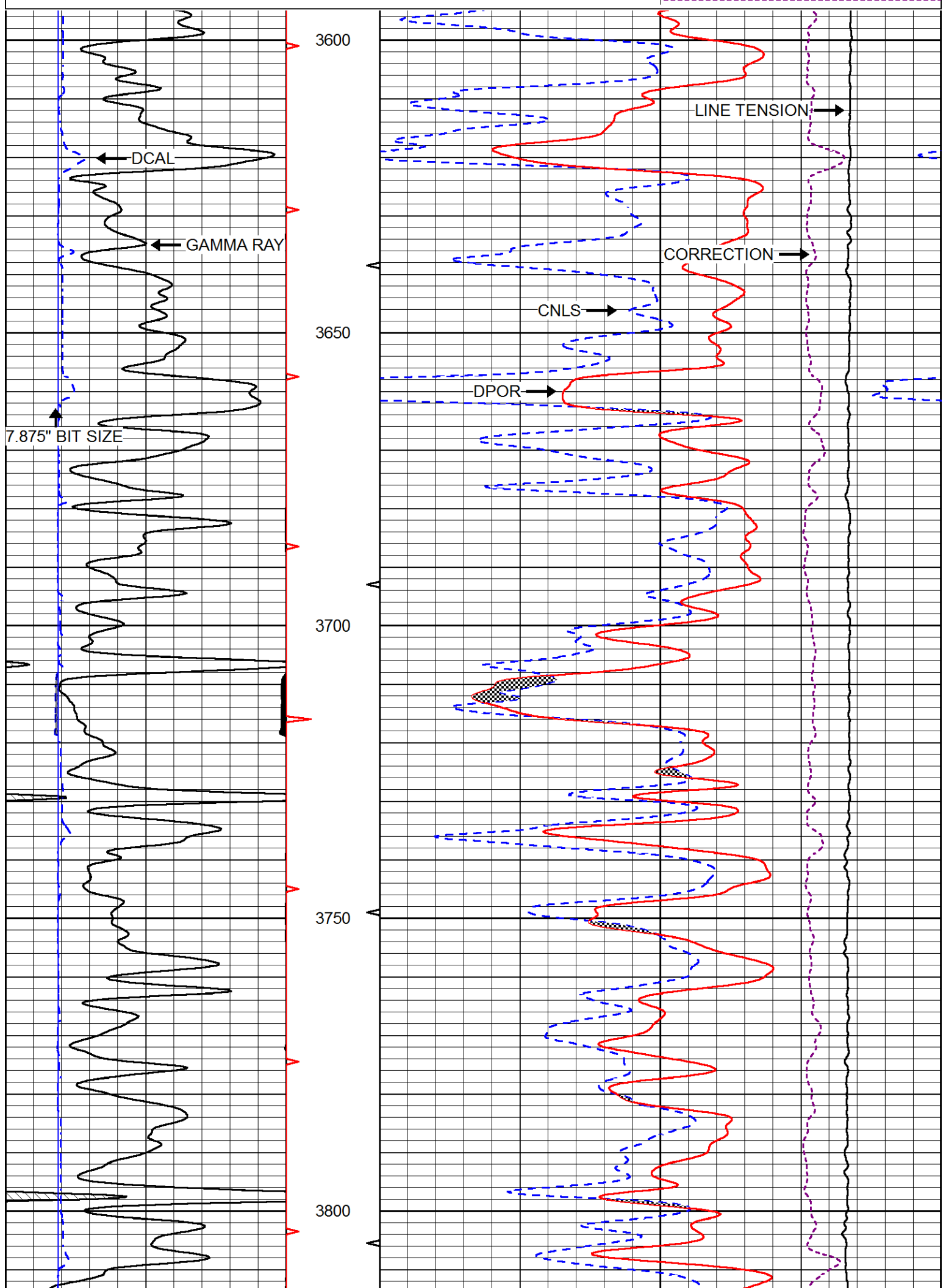


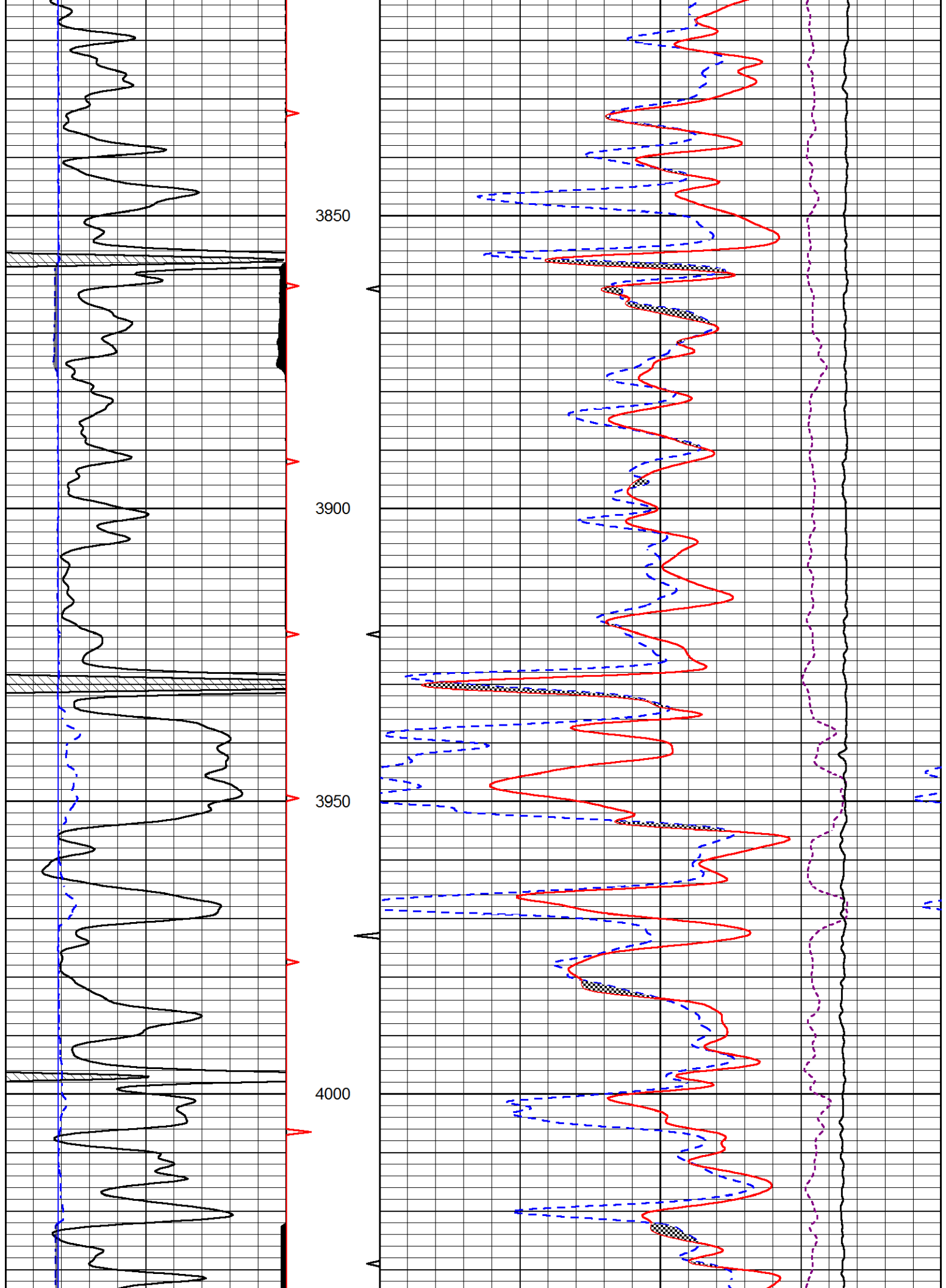


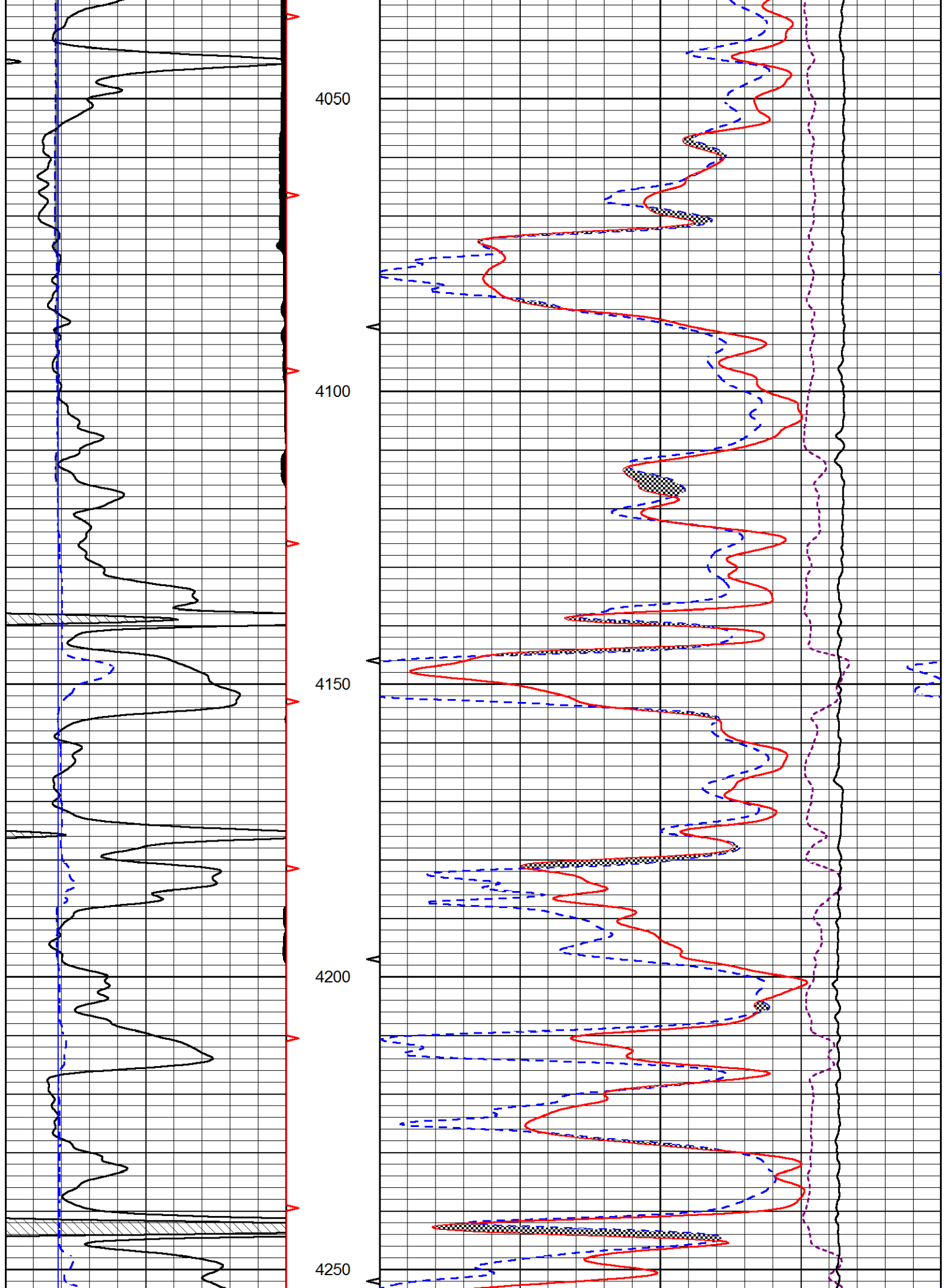
MAIN PASS

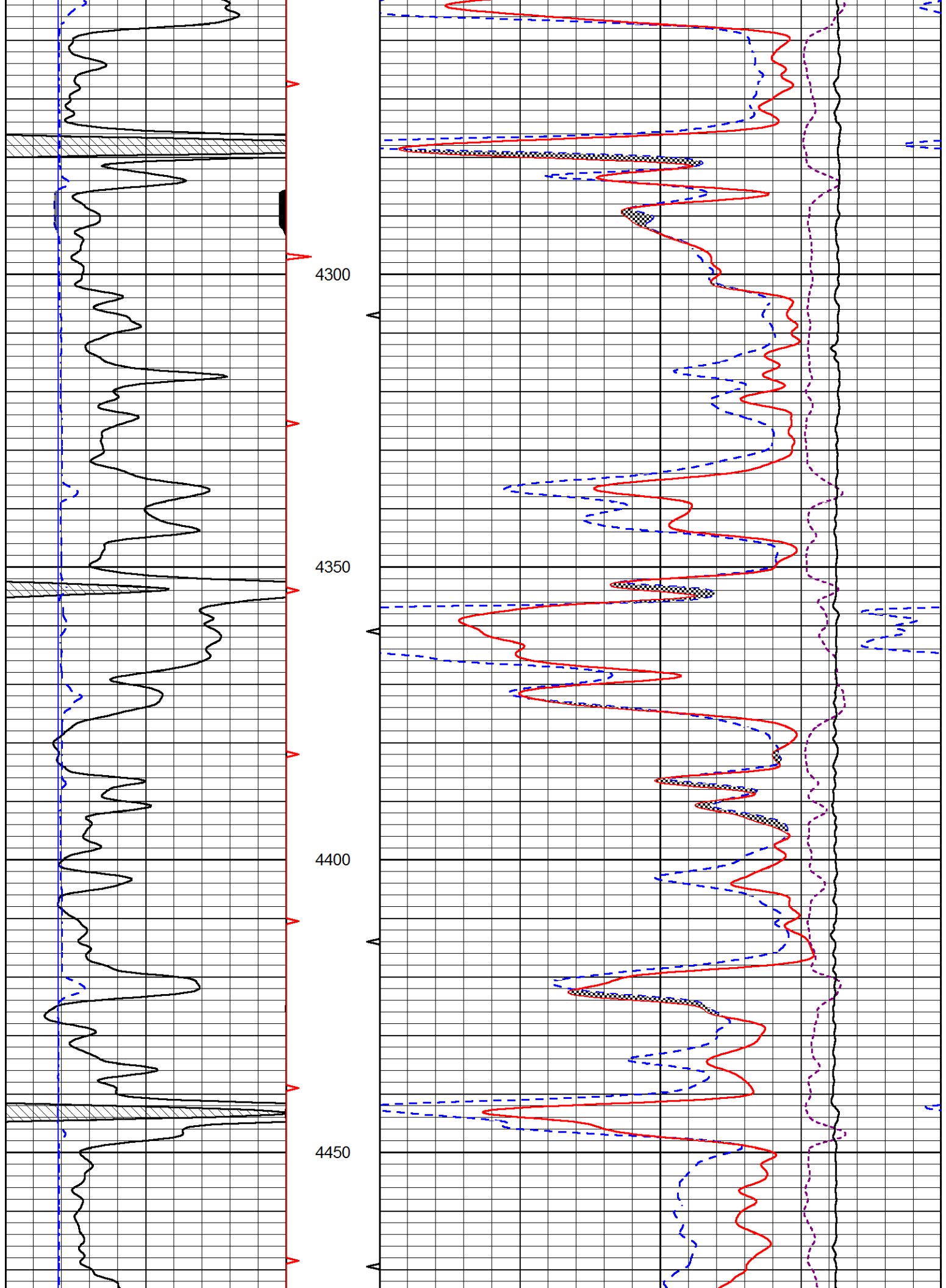
Database File: bluegoose_hineman farms 1.db
Dataset Pathname: STACK/pass3.1
Presentation Format: cndlspec
Dataset Creation: Sat Aug 25 01:24:44 2018
Charted by: Depth in Feet scaled 1:240

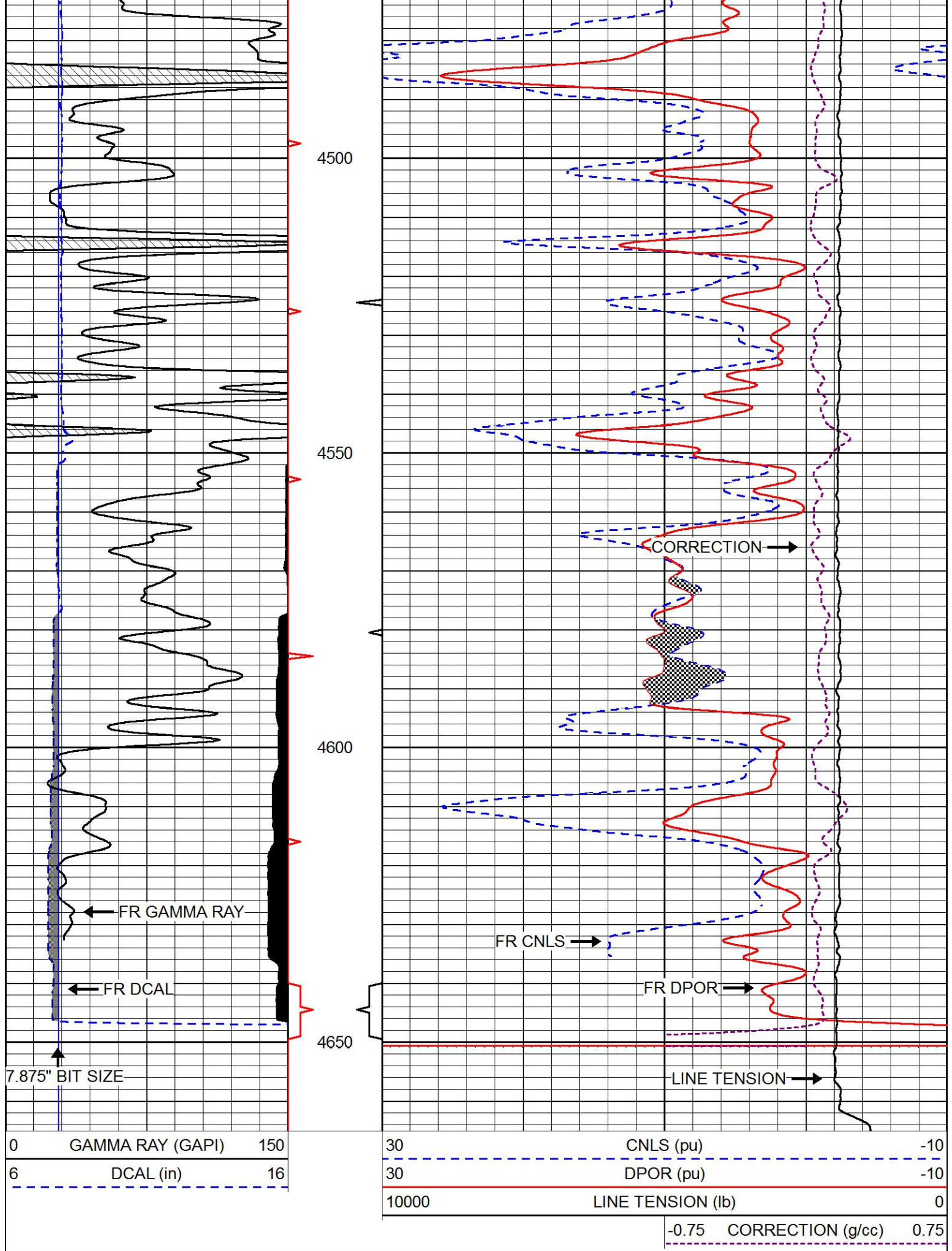
0	GAMMA RAY (GAPI)	150	30	CNLS (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
			10000	LINE TENSION (lb)	0
					-0.75 CORRECTION (g/cc) 0.75









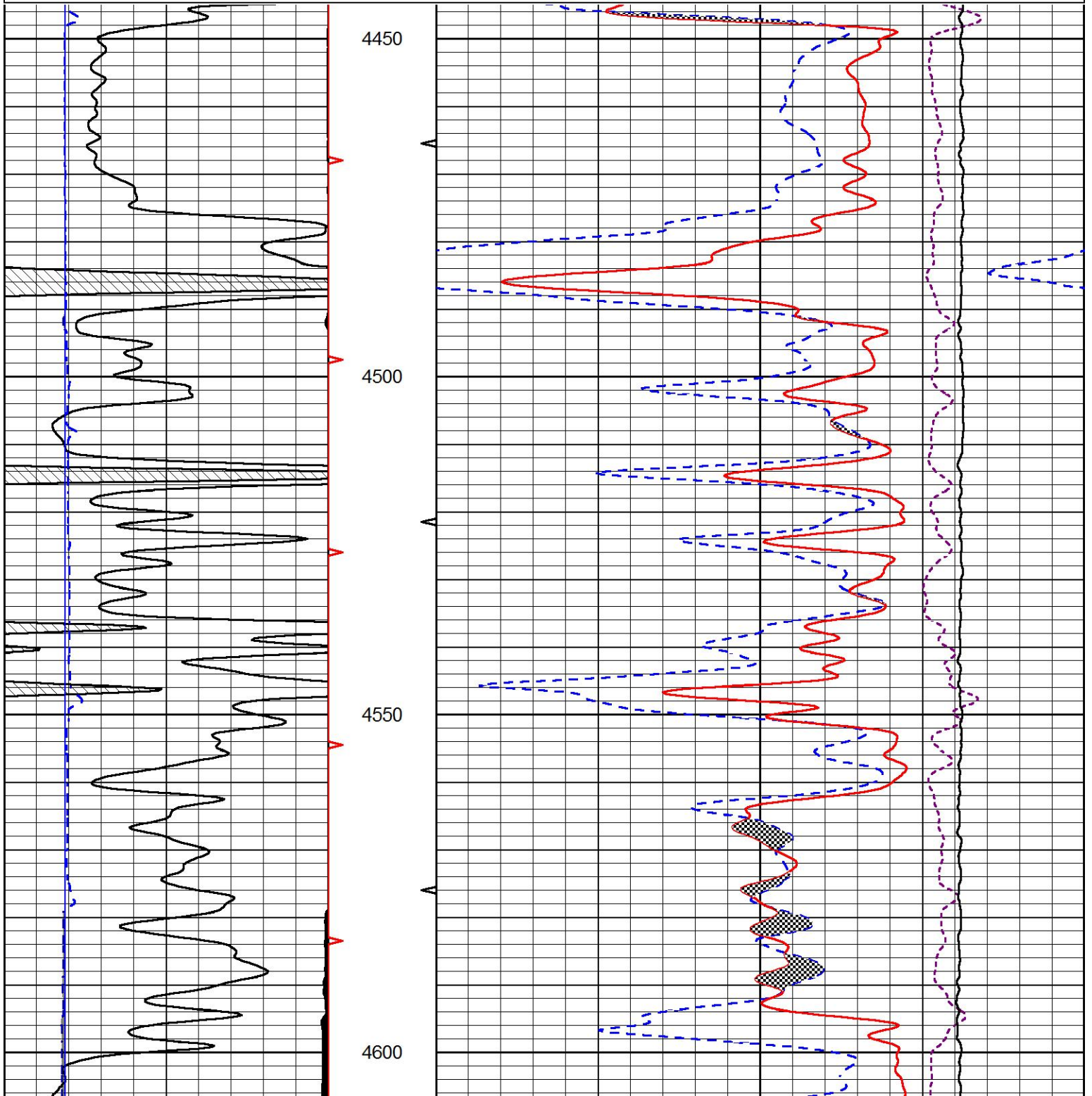


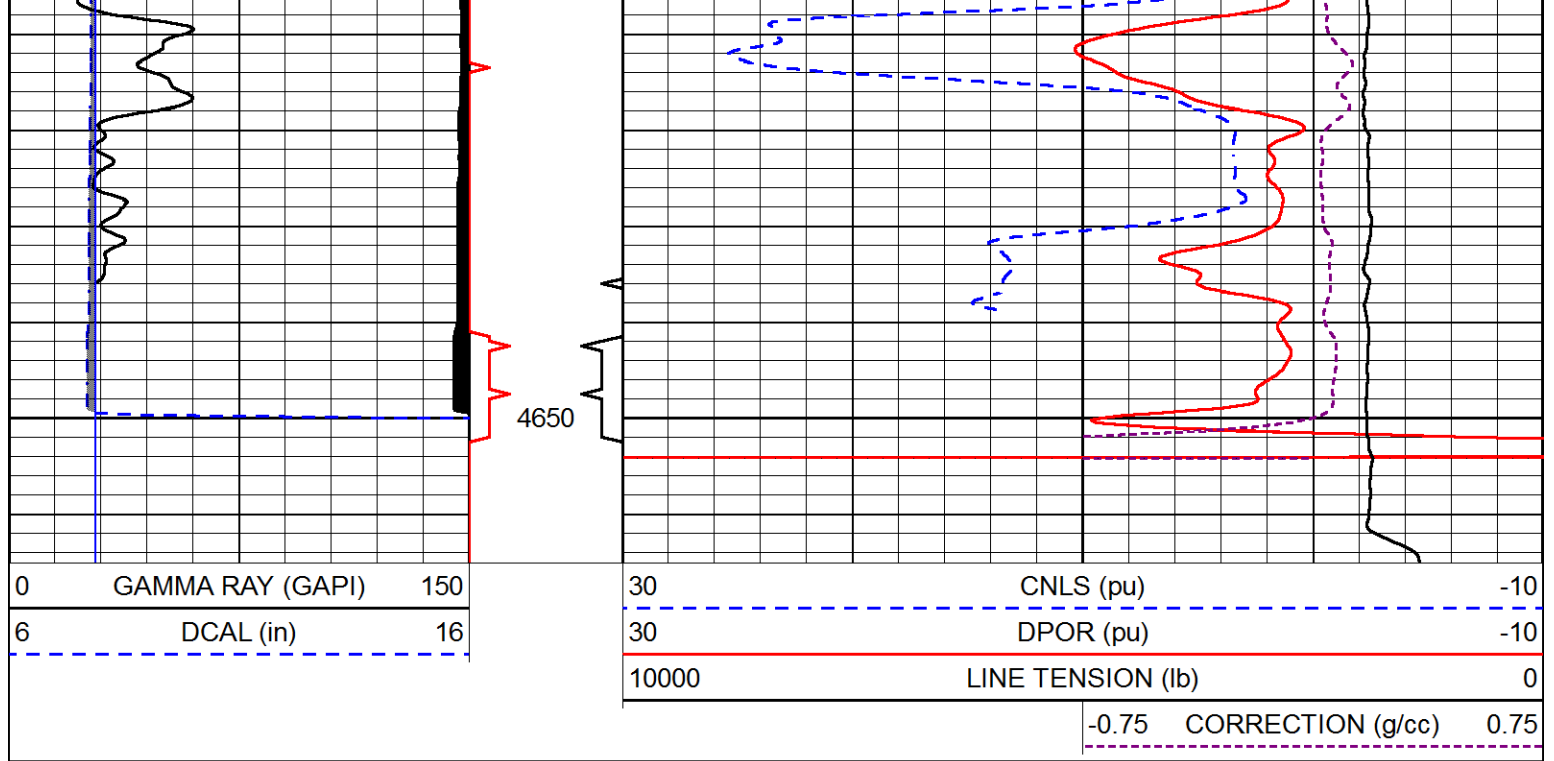
REPEAT SECTION

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass2.3
 Presentation Format cndlspec
 Dataset Creation Sat Aug 25 00:57:37 2018
 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





Calibration Report

Database File bluegoose_hineman farms 1.db
 Dataset Pathname STACK/pass3.3
 Dataset Creation Sat Aug 25 00:54:25 2018

Dual Induction Calibration Report

Serial-Model: 967 (HT)-PSI HIGH TEMP
 Calibration Performed: Fri Aug 24 11:15:17 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.800	mmho/m	0.565	-16.500
Medium	0.000	1348.000	142.000	255.800	mmho/m	0.390	-39.250

Compensated Density Calibration Report

Serial-Model: 797-152-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Tue May 01 13:38:28 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4933.40	5500.86	cps
Aluminum	2.660	g/cc	928.80	3521.29	cps
Spine Angle = 75.04			Density/Spine Ratio = 0.524		
	Size		Reading		
Small Ring	5.00	in	1.09		
Large Ring	15.00	in	1.03		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: FRI AUG 24 10:30:30 2018

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: 89
Tool Model: M&W
Calibration Performed: Fri Aug 24 11:16:10 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps



Company BLUE GOOSE DRILLING CO., INC.
Well HINEMAN FARMS #1
Field WILDCAT
County LANE
State KANSAS