



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **JOHN O FARMER**
Well **ULRICH B #1**
Field **WILDCAT**
County **RUSSELL** State **KANSAS**

Location: API #: 15-167-24079-00-00

Other Services

SEC 25 TWP 11S RGE 13W
430' FSL & 990' FEL

DIL/MEL

Permanent Datum **GROUND LEVEL** Elevation **1731'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1738'
D.F. N/A
G.L. 1731'

Date **11/27/2017**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **3340'**

Depth Logger **3338'**

Bottom Logged Interval **3309'**

Top Logged Interval **2600'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **11500**

Density **9.2**

Level **FULL**

Max. Rec. Temp. F **109**

Operating Rig Time **3 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **D. SCHMIDT**

Witnessed By **AUSTIN KLAUS**

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.

BUNKER HILL,
NORTH TO AMHERST RD, 1/2 EAST,
NORTH INTO

Log Measured From: KELLY BUSHING 7 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: AUSTIN KLAUS
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\john o farmer_ulrich b1.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	-85	0		0

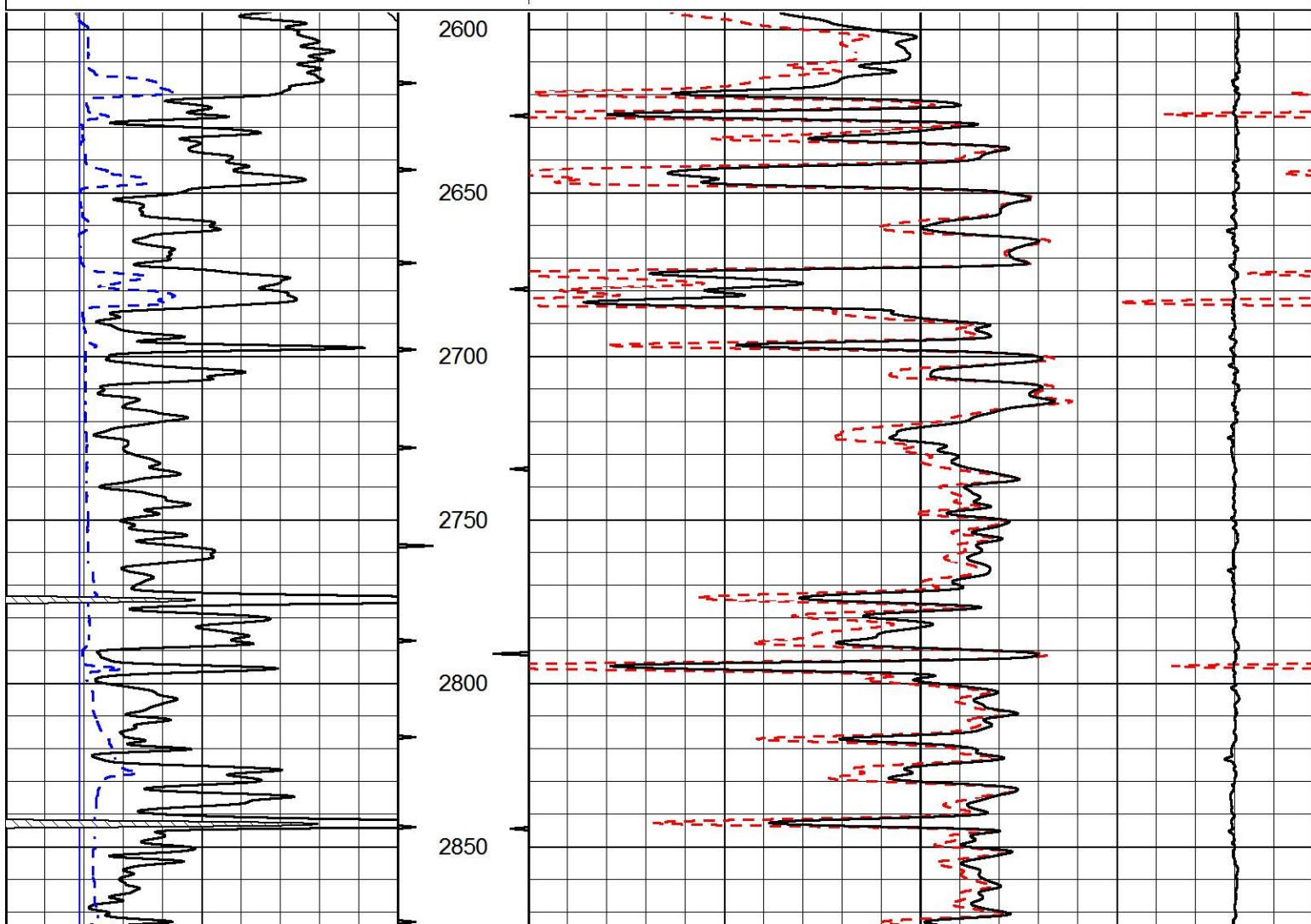


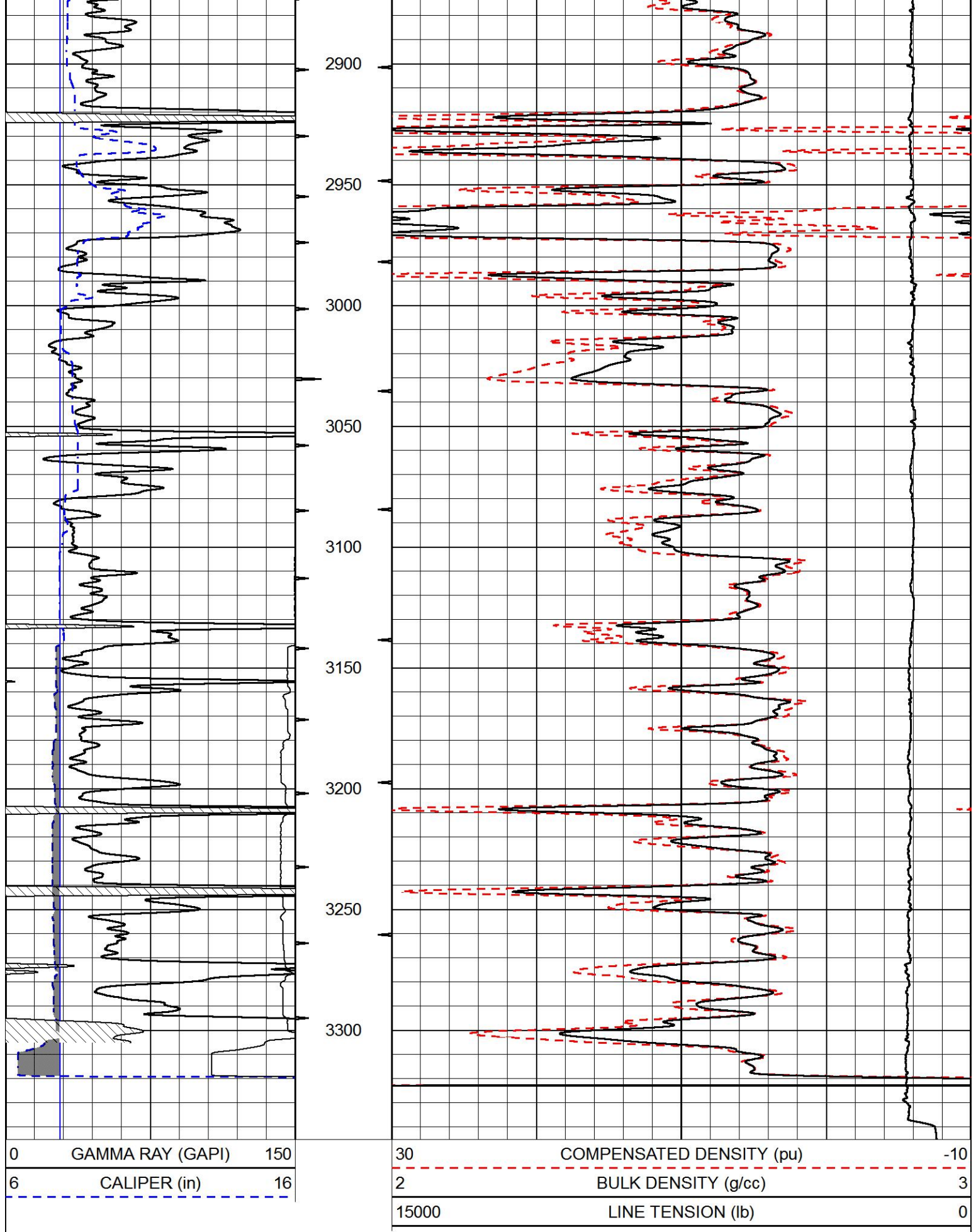
MAIN PASS

Database File john o farmer_ulrich b1.db
Dataset Pathname STKML/pass3.1
Presentation Format cdl
Dataset Creation Tue Nov 27 13:02:12 2018
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



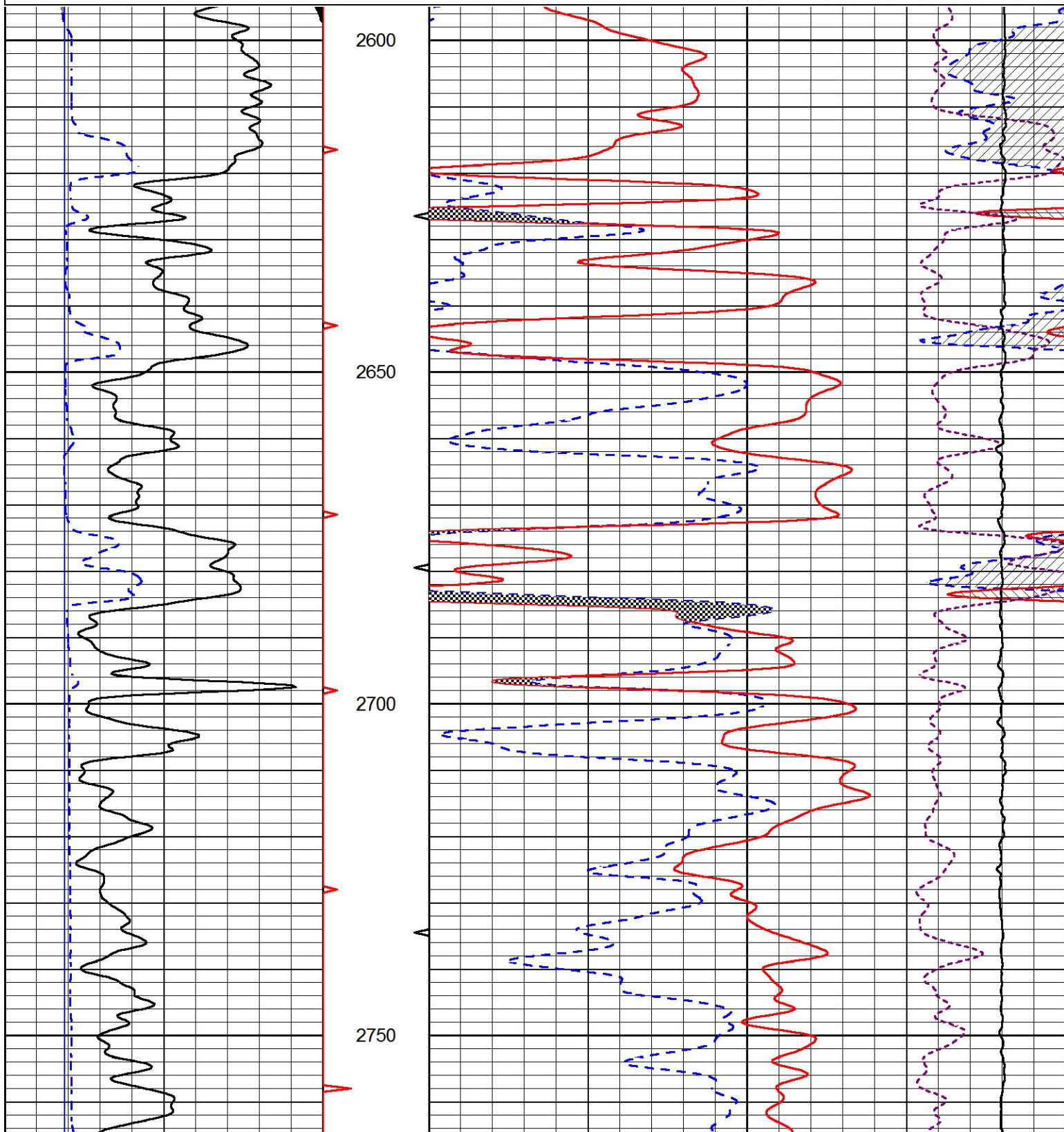


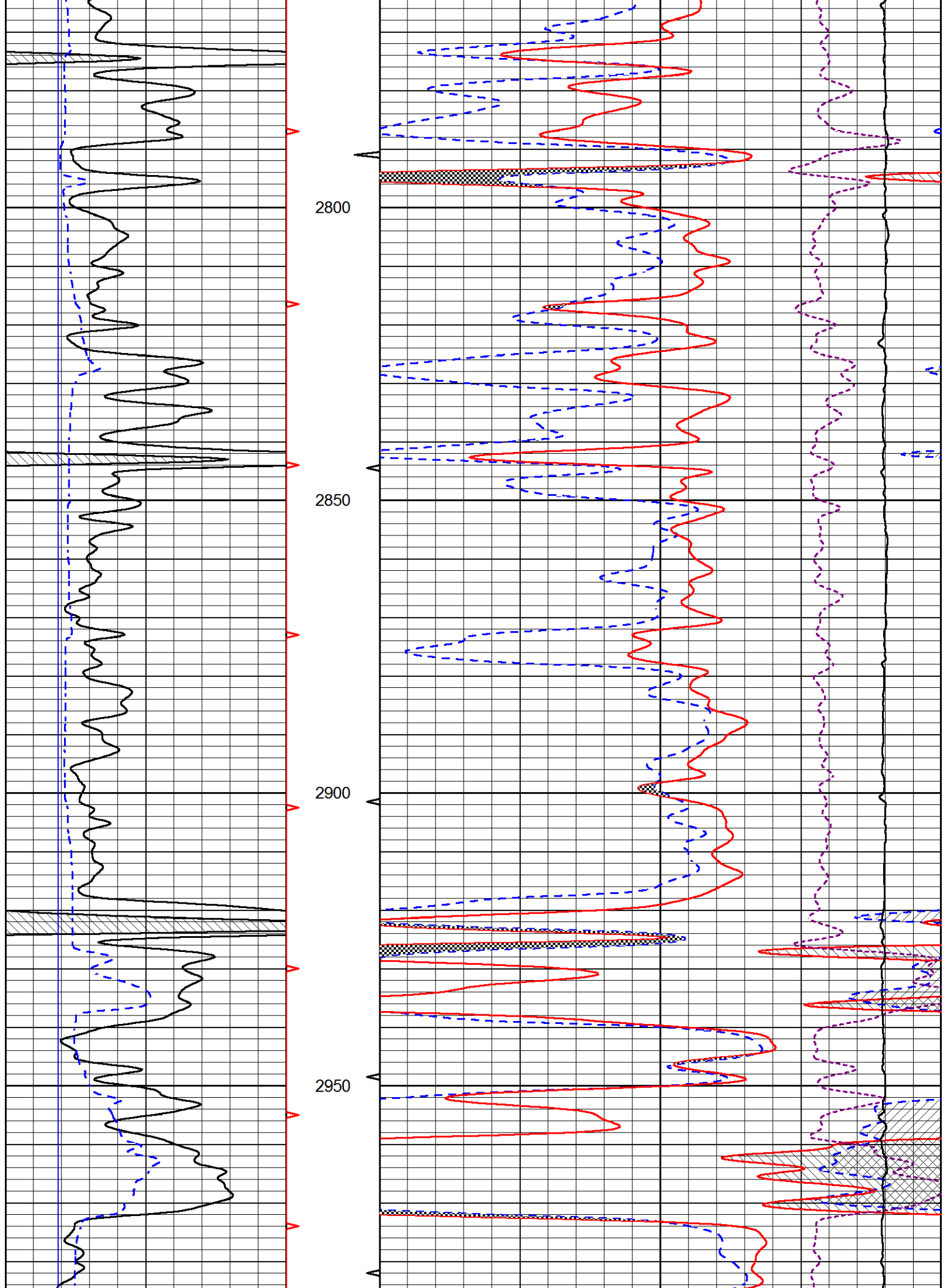
MAIN PASS

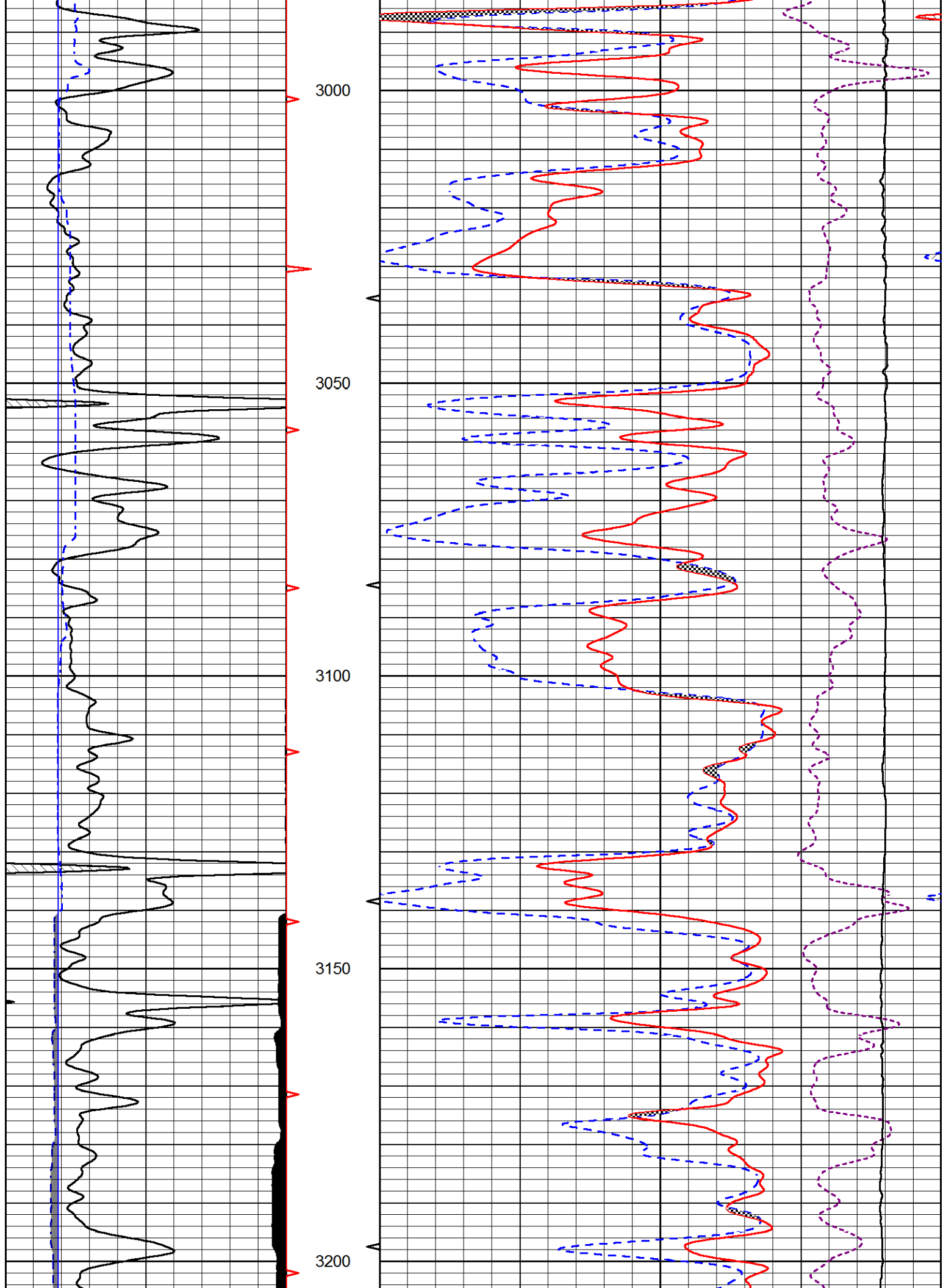
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 Dataset Pathname STKML/pass3.1
 Presentation Format cndlspec
 Dataset Creation Tue Nov 27 13:02:12 2018
 Charted by Depth in Feet scaled 1:240

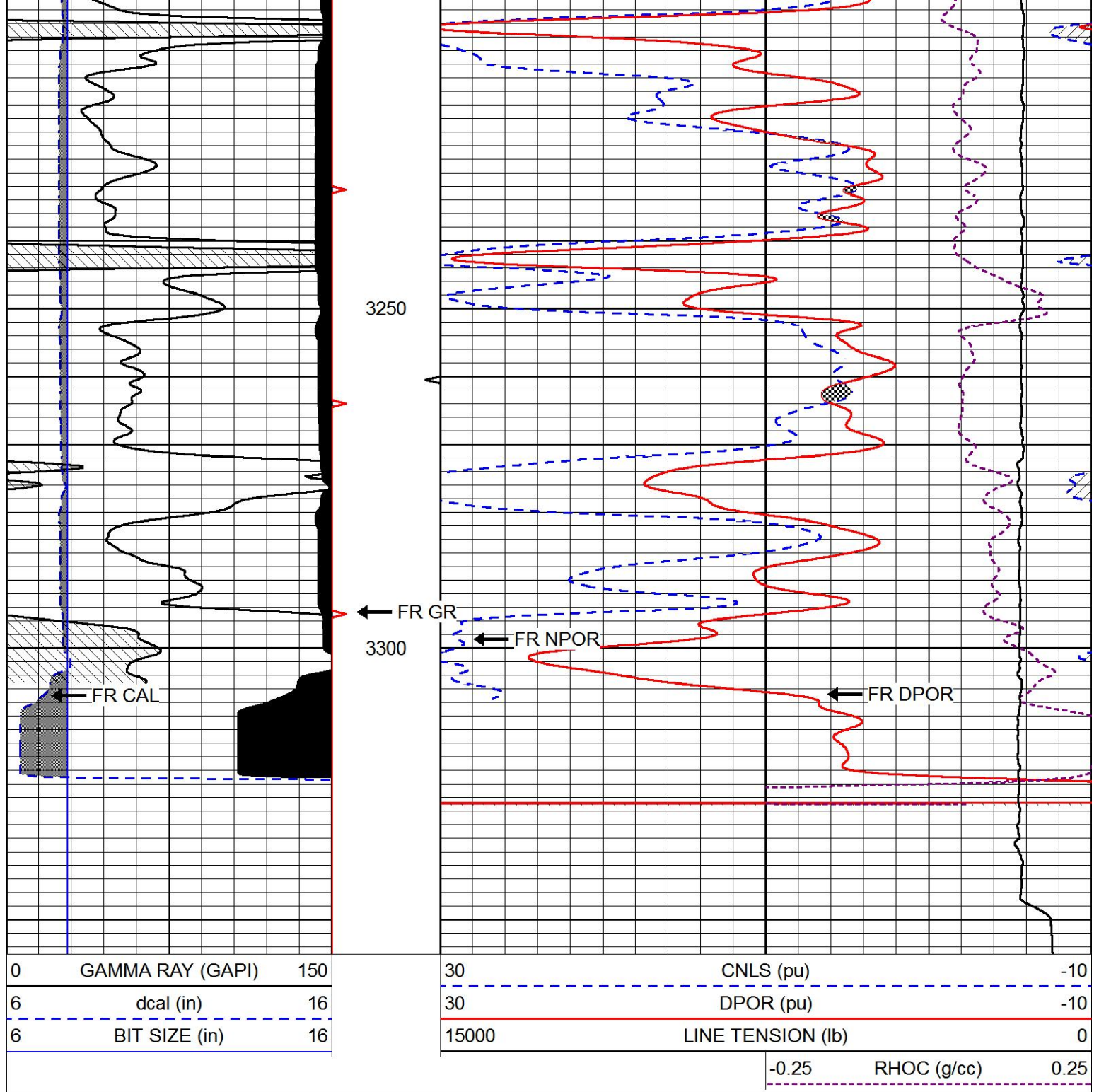
0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

30	CNLS (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0
	RHOC (g/cc)	-0.25 0.25











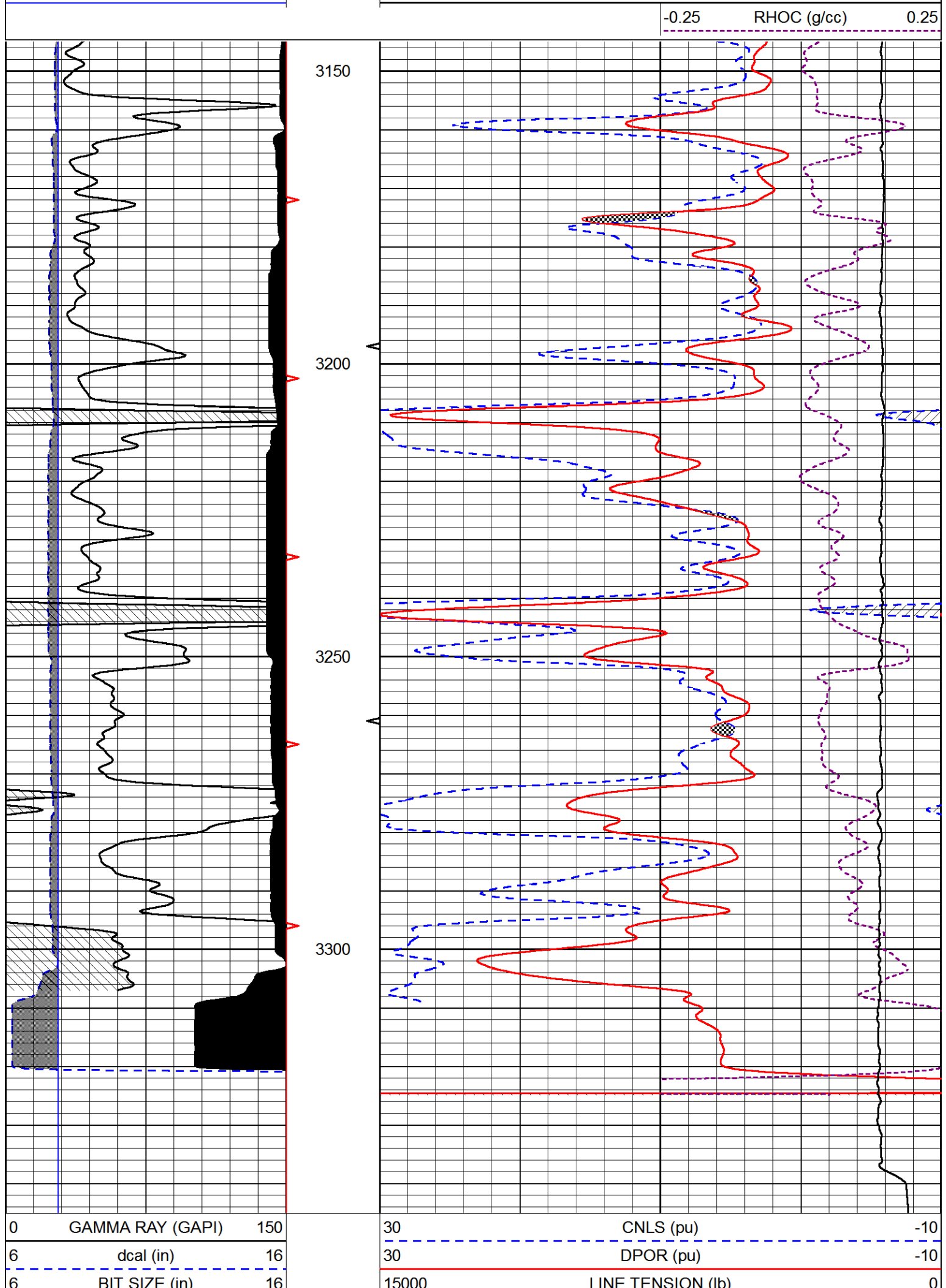
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REPEAT SECTION

Database File	john o farmer_ulrich b1.db
Dataset Pathname	STKML/pass2.5
Presentation Format	cnlspec
Dataset Creation	Tue Nov 27 12:48:56 2018
Charted by	Depth in Feet scaled 1:240

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

30	CNLS (pu)	-10
30	DPOR (pu)	-10
15000	LINE TENSION (lb)	0



Detector	Readings	Target	Normalization
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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-M&W	
Tool Model:	M&W	
Calibration Performed:	Tue Apr 11 17:08:01 2017	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps

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