



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **CHARLES N. GRIFFIN**
Well **SPRINGER NO. 1**
Field **TONI-MIKE**
County **BARBER** State **KANSAS**

Location: API #: 15-007-24303-00-00

Other Services

990' FSL & 2,310' FWL

DIL

SEC 34 TWP 32S RGE 12W

Permanent Datum **GROUND LEVEL** Elevation **1553'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 1558'
D.F. N/A
G.L. 1553'

Date **7/3/2016**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **4882'**

Depth Logger **4885'**

Bottom Logged Interval **4864'**

Top Logged Interval **3400'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **7500**

Density **9.5**

Level **FULL**

Max. Rec. Temp. F **125**

Operating Rig Time **2 1/2 HOURS**

Equipment -- Location **108 COLBY**

Recorded By **J. LONG**

Witnessed By **BRUCE A. REED**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	304'	8.625"	23#	00'	304'
TWO	7.875"	304'	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.

MEDICINE LODGE, 4 1/2 SOUTH TO COLLEGE HILL ROAD, 1.6 WEST, NORTH INTO

Log Measured From: **KELLY BUSHING** 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

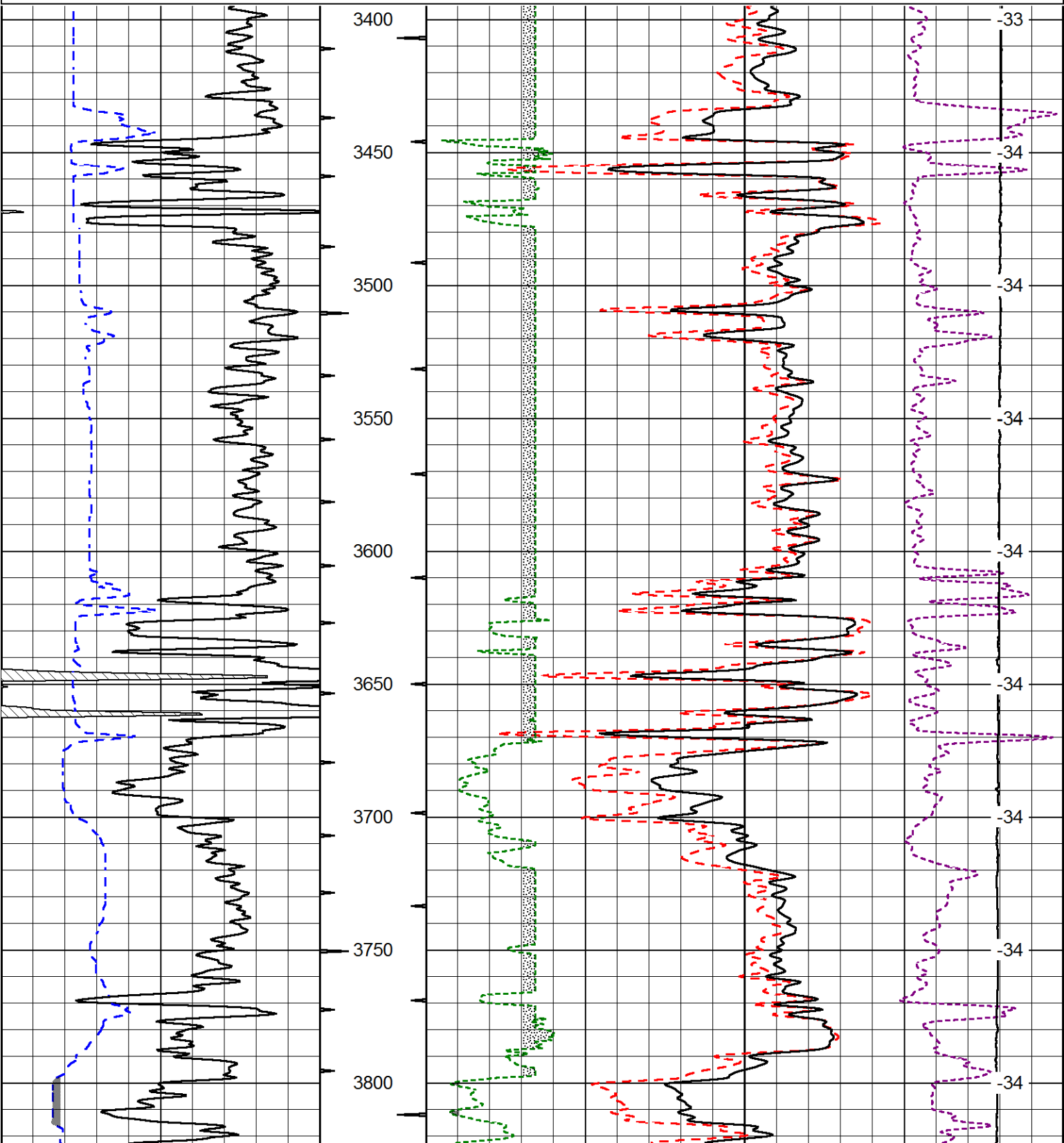
Engineer: **J. LONG**
Operator:
Operator:
Operator: **M. HISS**

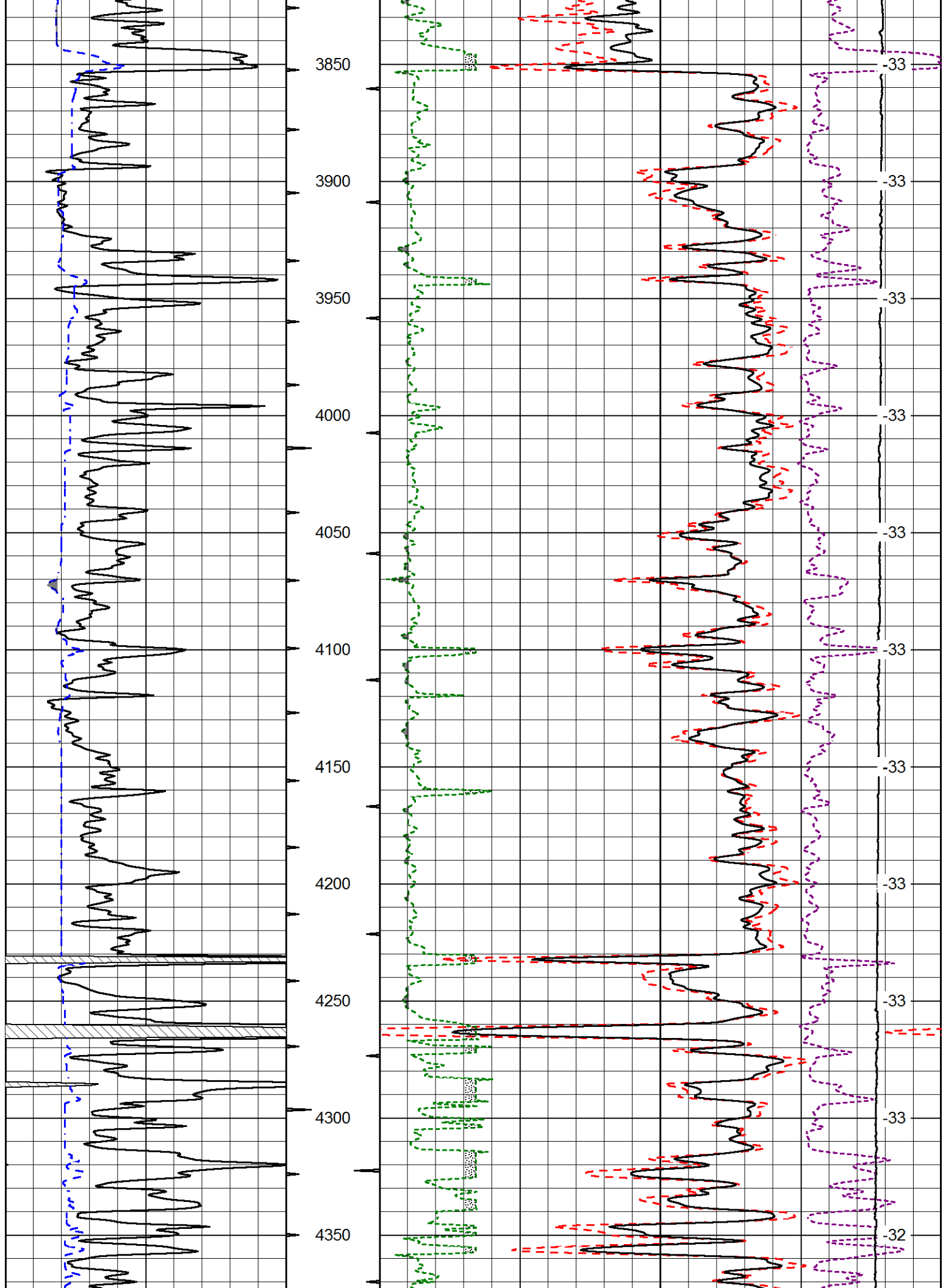
This Log Record Was Witnessed By

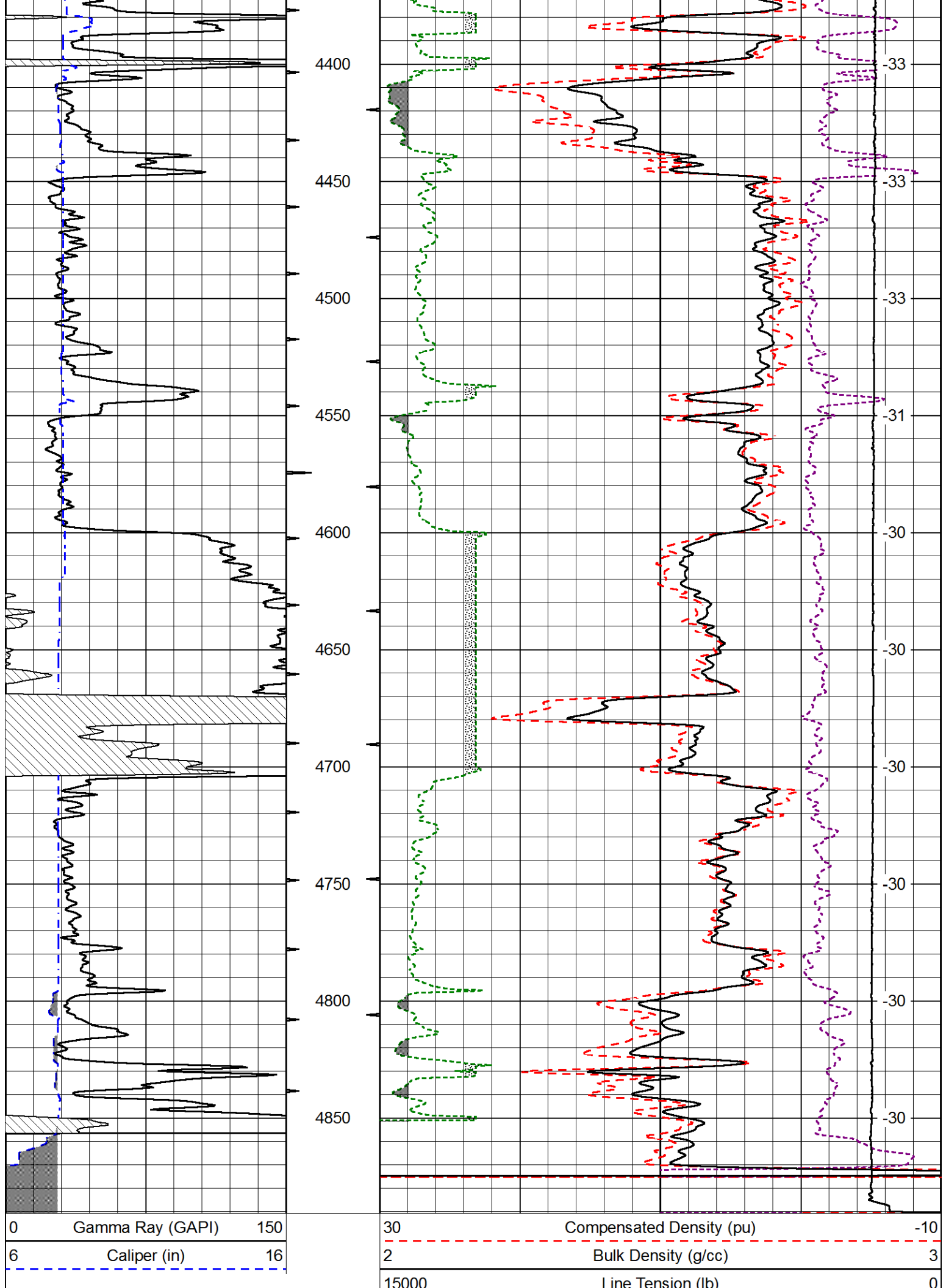
Primary Witness: **BRUCE A. REED**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Database File	charlesgriffin_springer_1hd.db
Dataset Pathname	DIL/grfstck
Presentation Format	cdl
Dataset Creation	Sun Jul 03 19:27:52 2016
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)		-10
6	Caliper (in)	16	2	Bulk Density (g/cc)		3
			15000	Line Tension (lb)		0
			2.625	DGA (g/cc)	3.425	-0.25
			Correction (g/cc)		0.25	
			LSPD (ft/min)			



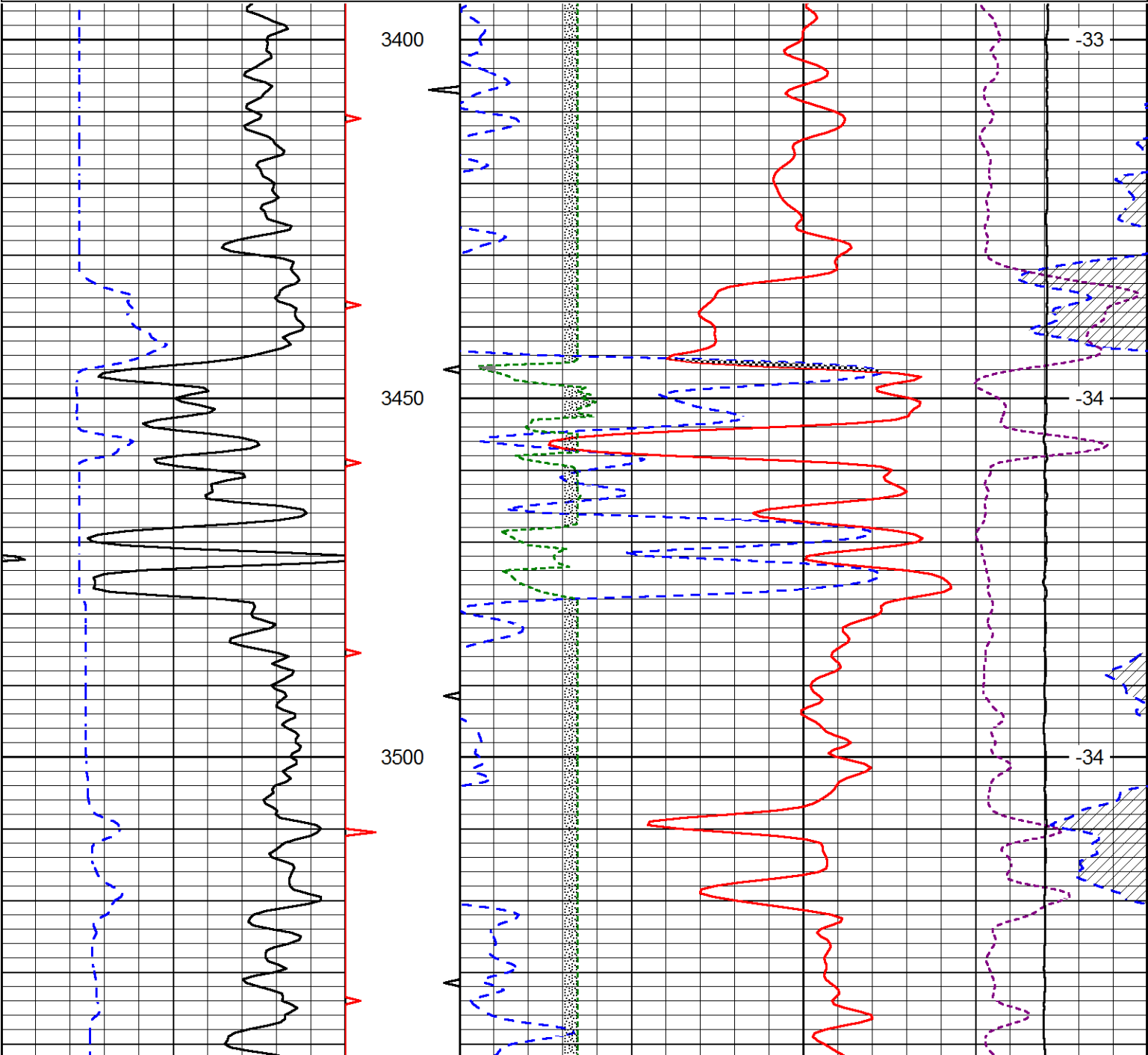


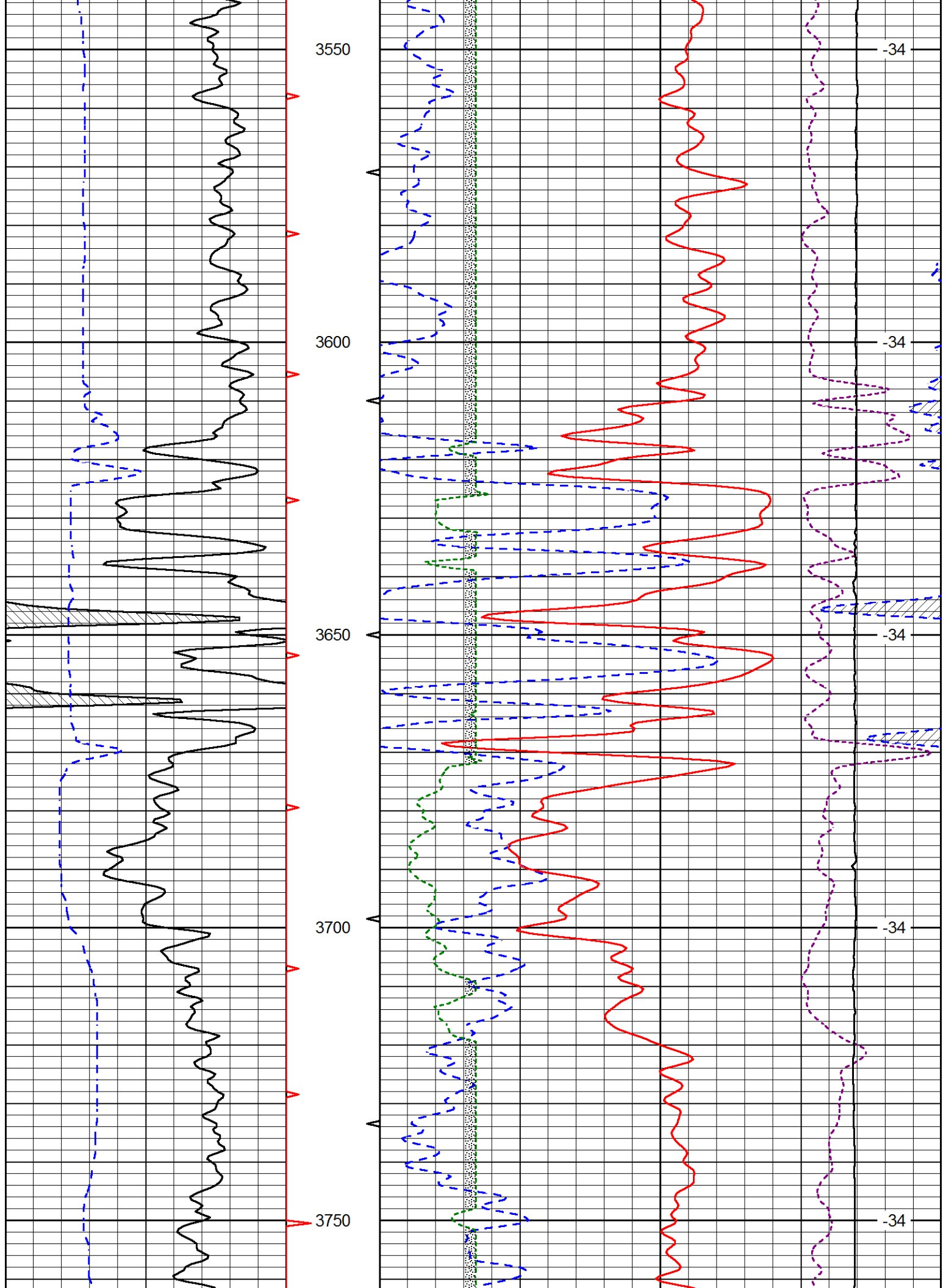


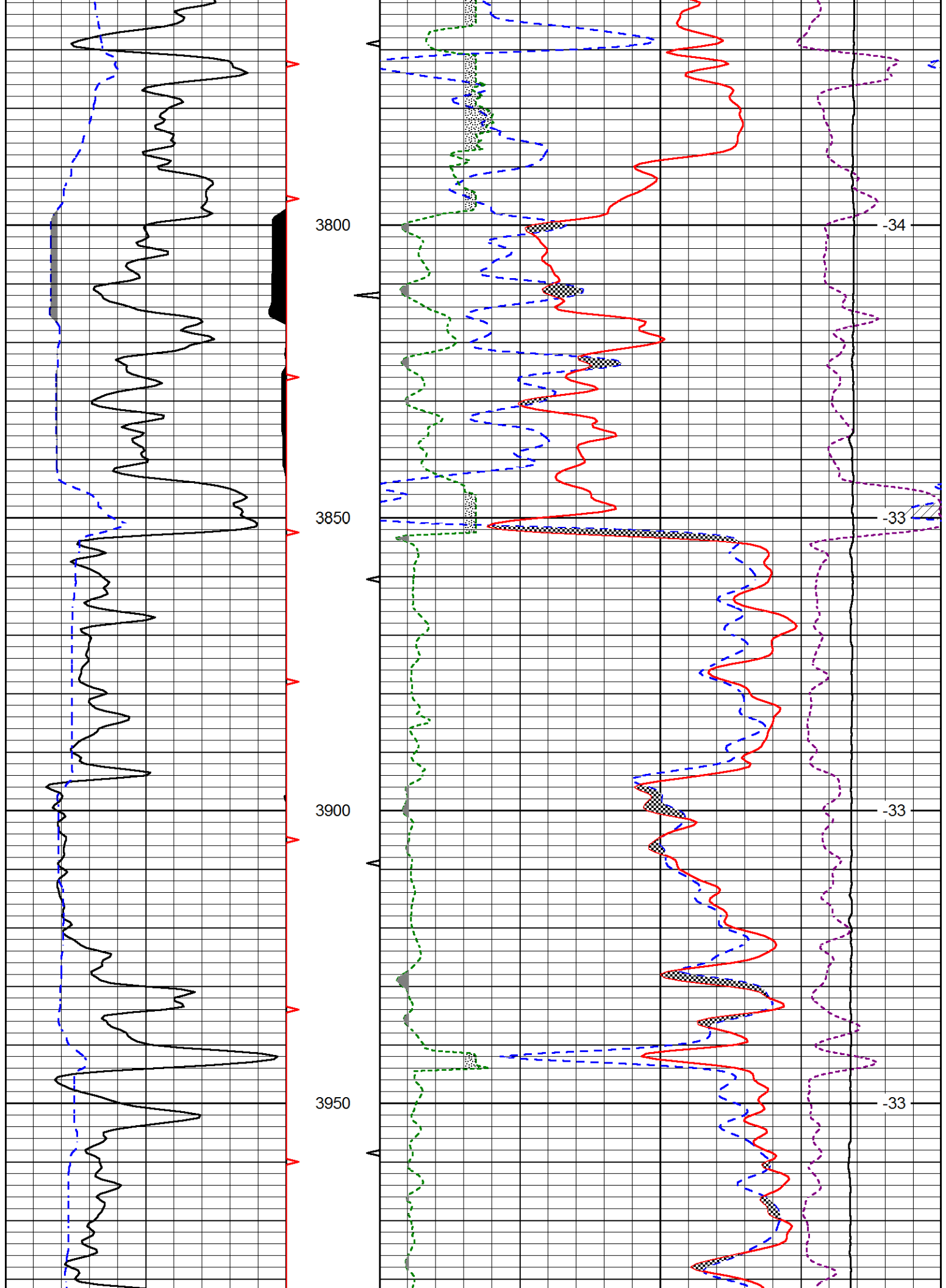
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
					LSPD (ft/min)

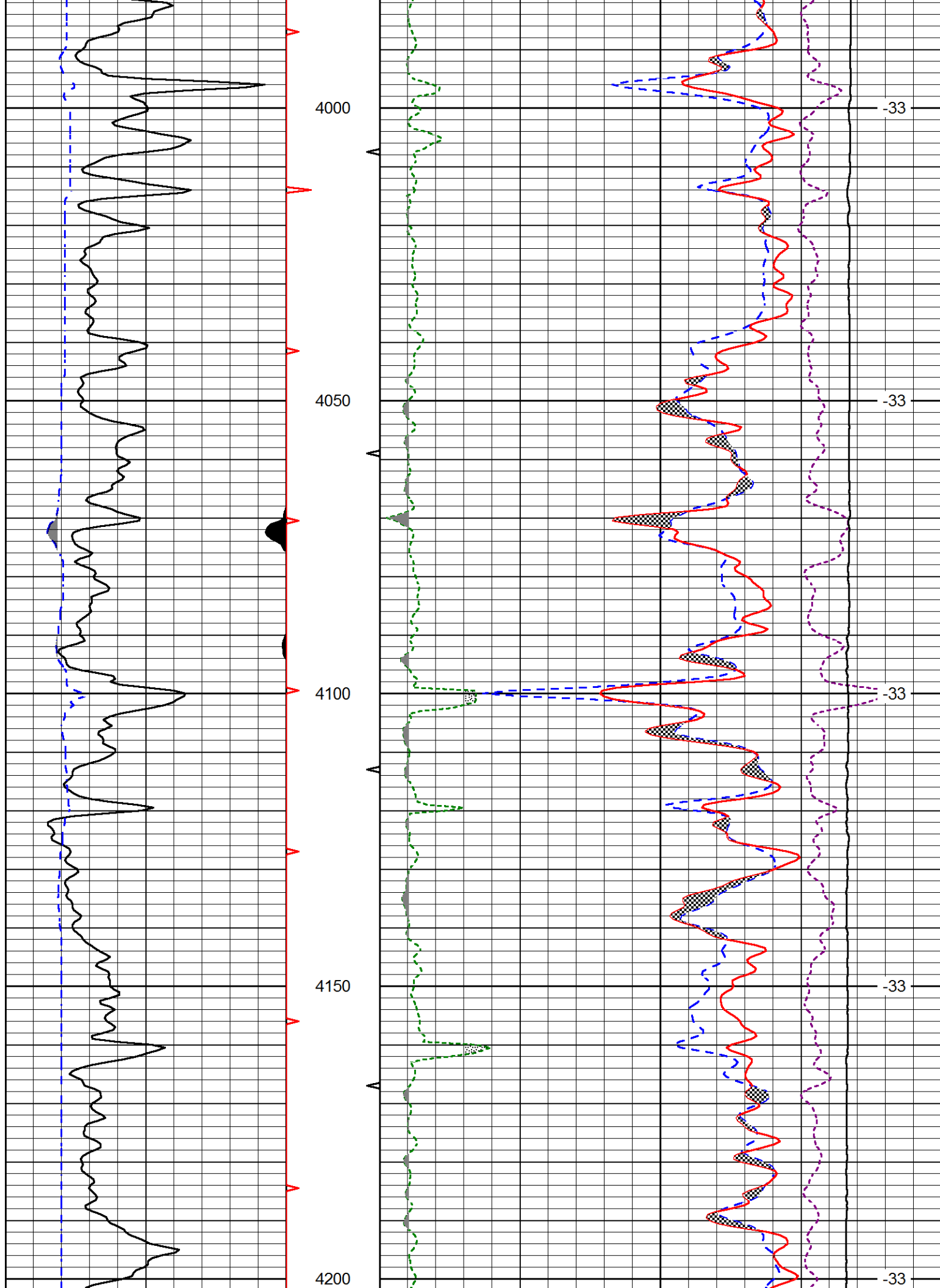
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Dataset Pathname	DIL/grfstck				
Presentation Format	cndlspec				
Dataset Creation	Sun Jul 03 19:27:52 2016				
Charted by	Depth in Feet scaled 1:240				

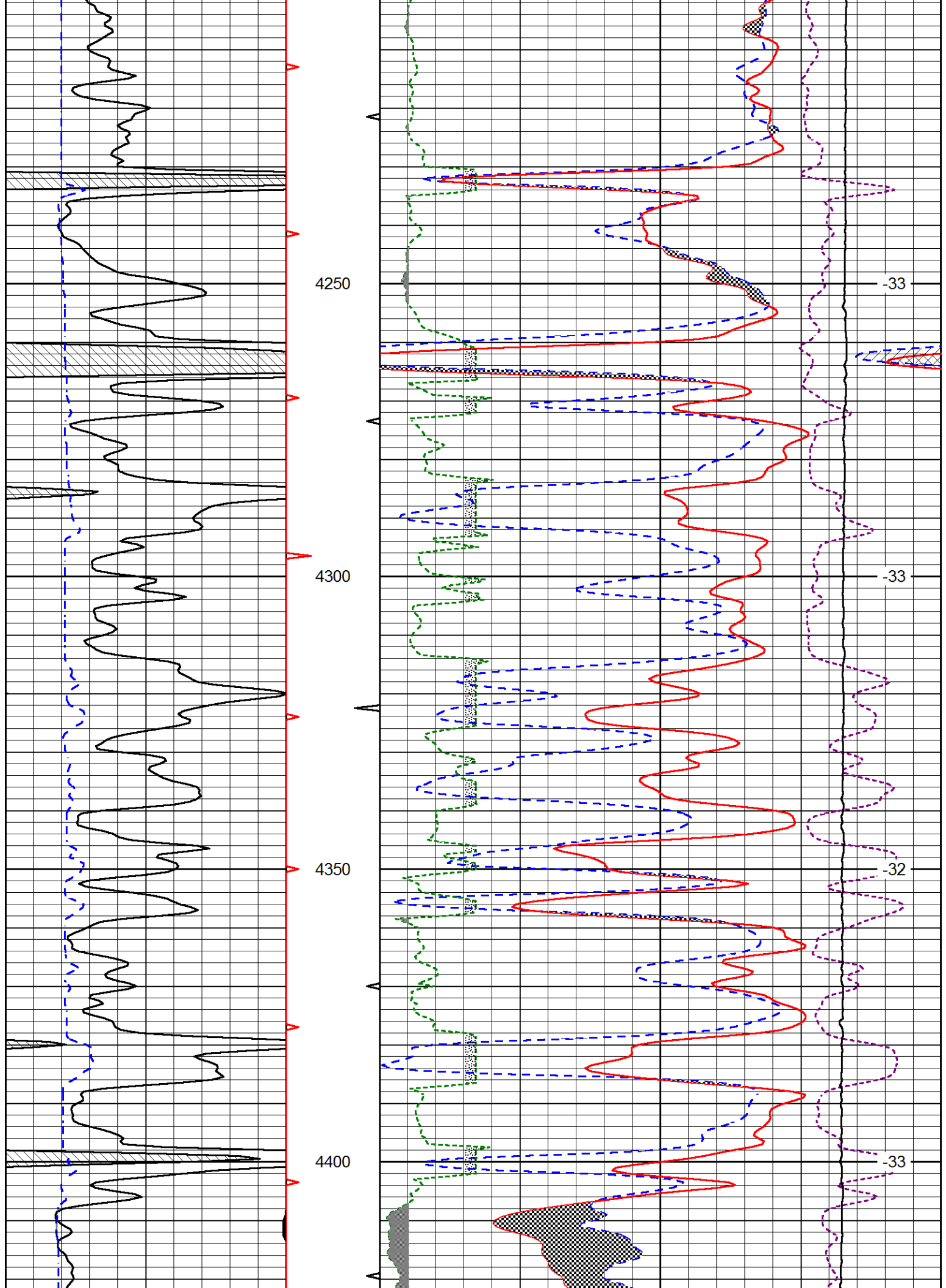
0	Gamma Ray (GAPI)	150	30	CNLS (pu)	-10
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)	-10
			10000	Line Tension (lb)	0
2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc)	0.25
					LSPD (ft/min)

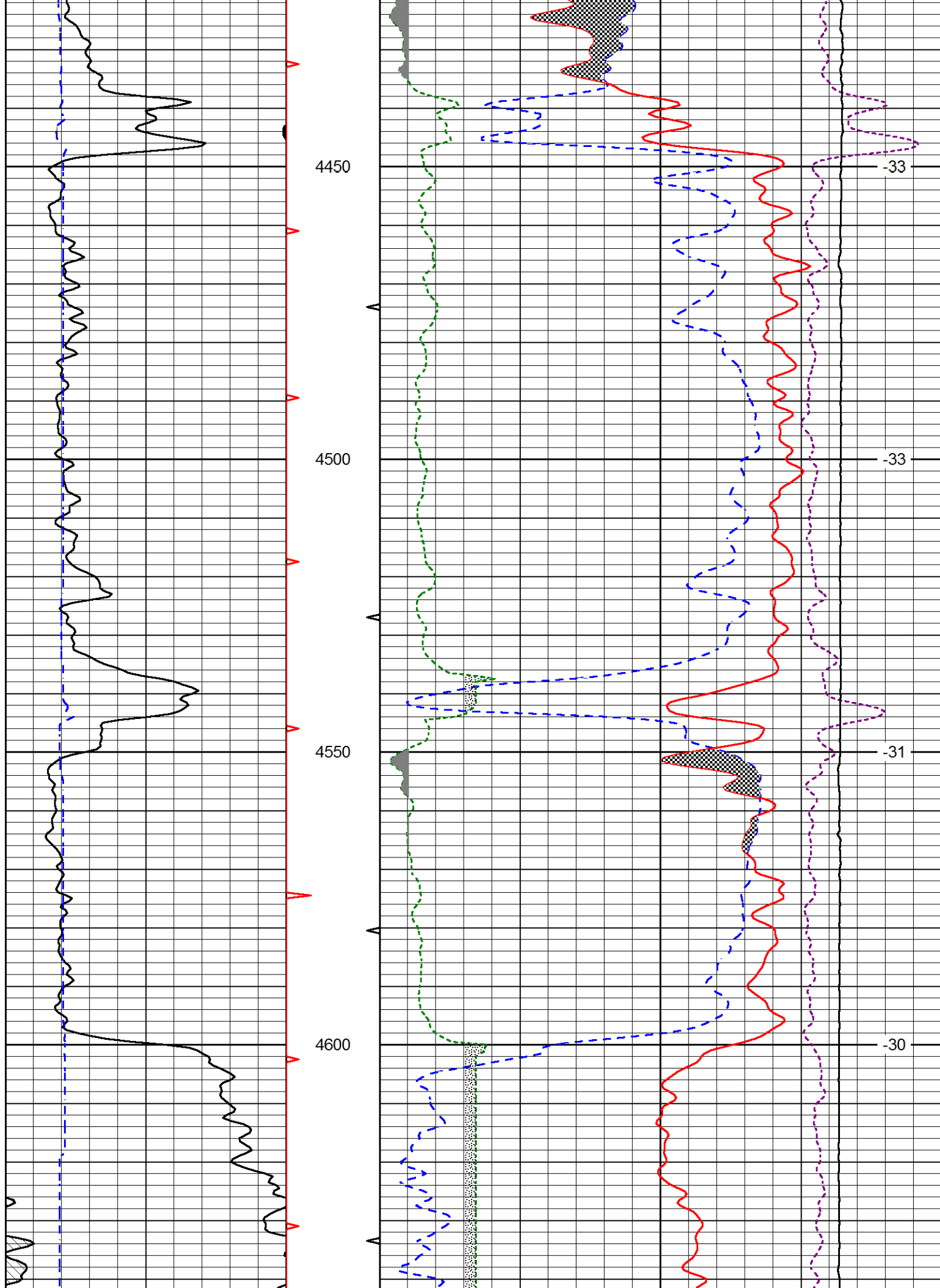


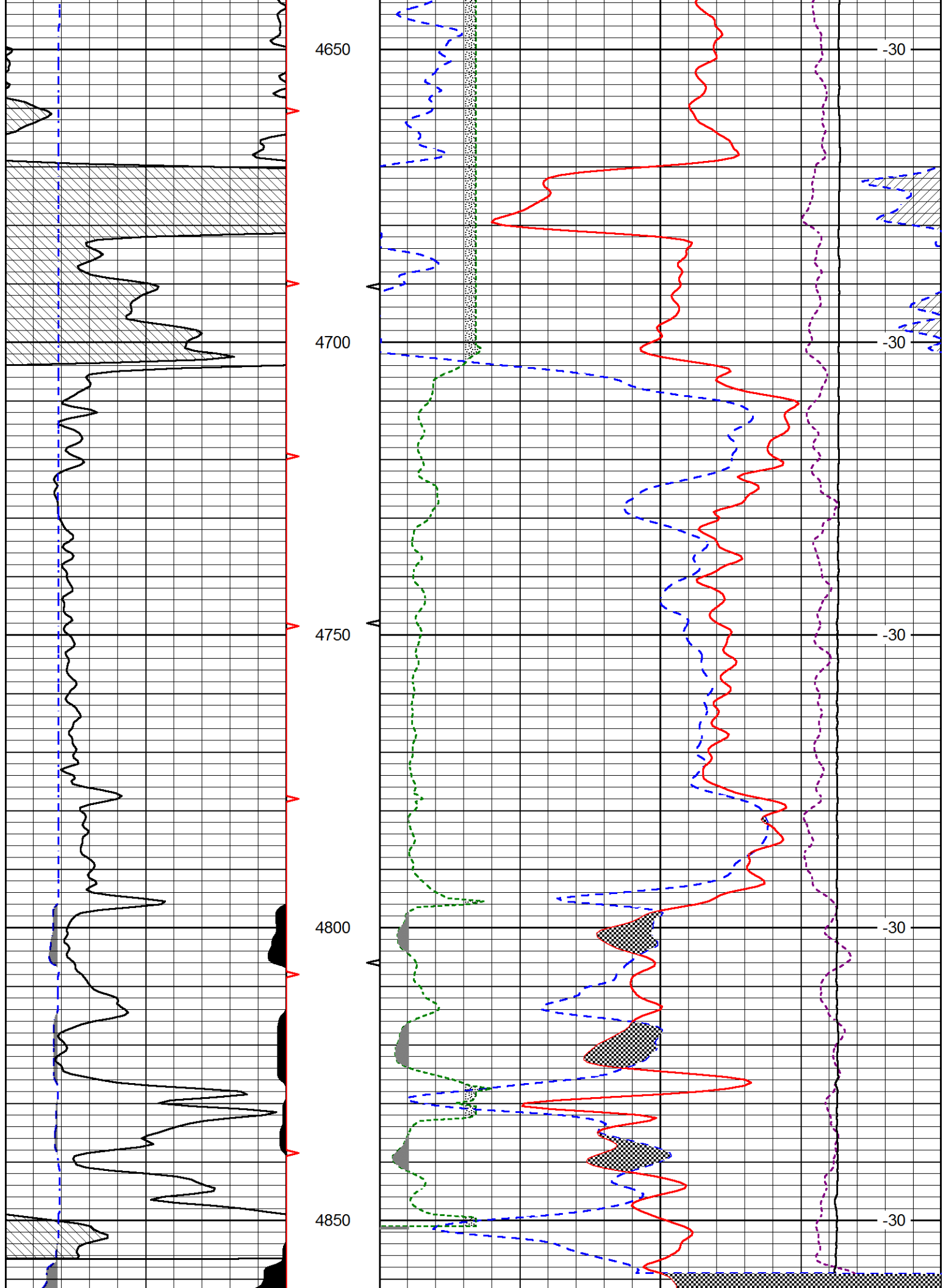


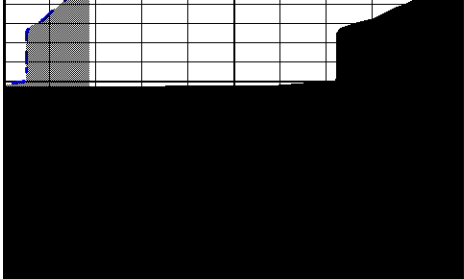




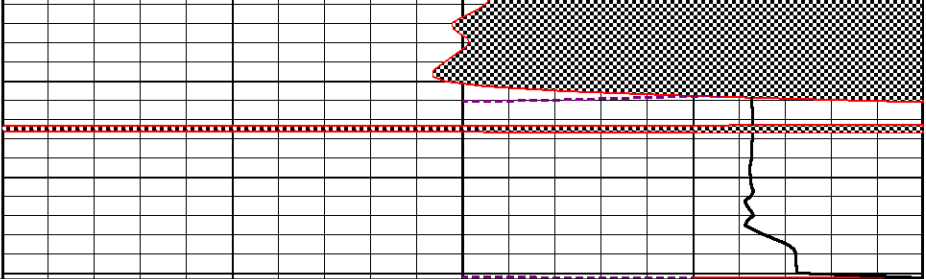








0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



30	CNLS (pu)	-10
30	Compensated Density (2.71 ma) (pu)	-10
10000	Line Tension (lb)	0
2.625	DGA (g/cc)	3.425
-0.25	Correction (g/cc)	0.25

LSPD
(ft/min)