

PIONEER

**DUAL COMP POROSITY
LOG**

Pioneer Energy Services

Company	CARMEN SCHMITT, INC.
Well	ZIEGELMEIER NO. 1-2
Field	WILDCAT
County	THOMAS
State	KANSAS

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Location:	API # : 15-193-20,960-00-00	Other Services
	NE NW SE SW 1,226' FSL & 1,959' FWL	DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation 2994'
Log Measured From	KELLY BUSHING	K.B. 2999'
Drilling Measured From	KELLY BUSHING	D.F. N/A
		G.L. 2994'

Date	11/11/2015
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4576'
Depth Logger	4576'
Bottom Logged Interval	4555'
Top Logged Interval	3600'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	2800
Density	9.3
Level	FULL
Max. Rec. Temp. F	122
Operating Rig Time	3 1/2 HOURS
Equipment -- Location	108 Hays
Recorded By	J. LONG
Witnessed By	BRAD RINE

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25	00	248	8.625	23#	00	248
TWO	7.875	248	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.

GEM, 2 NORTH TO X ROAD, 2 EAST TO DEAD END, 1/4 NORTH, EAST INTO

Log Measured From: KELLY BUSHING

5 Ft. Above Permanent Datum

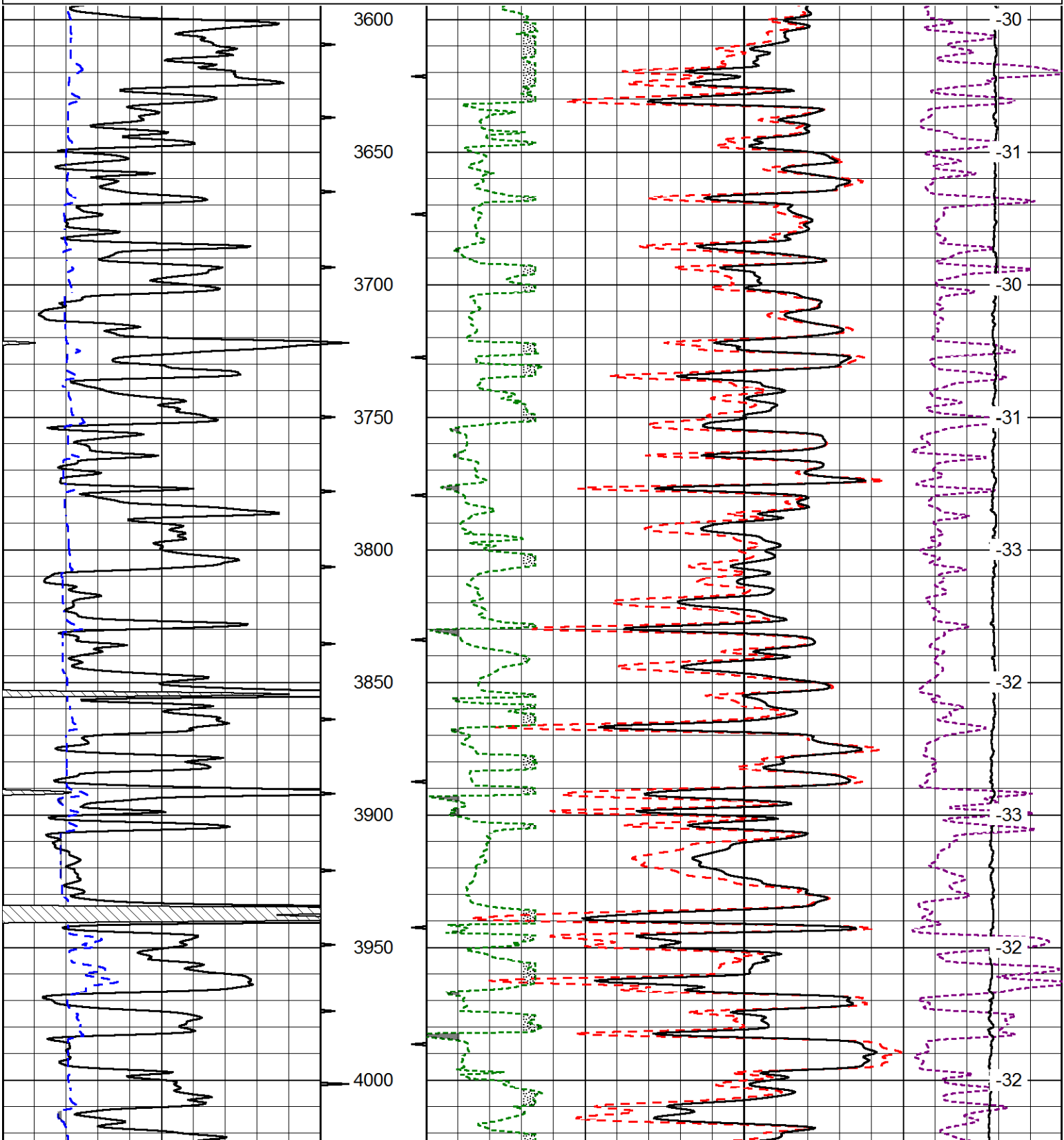
THANK YOU FOR USING PIONEER ENERGY SERVICES

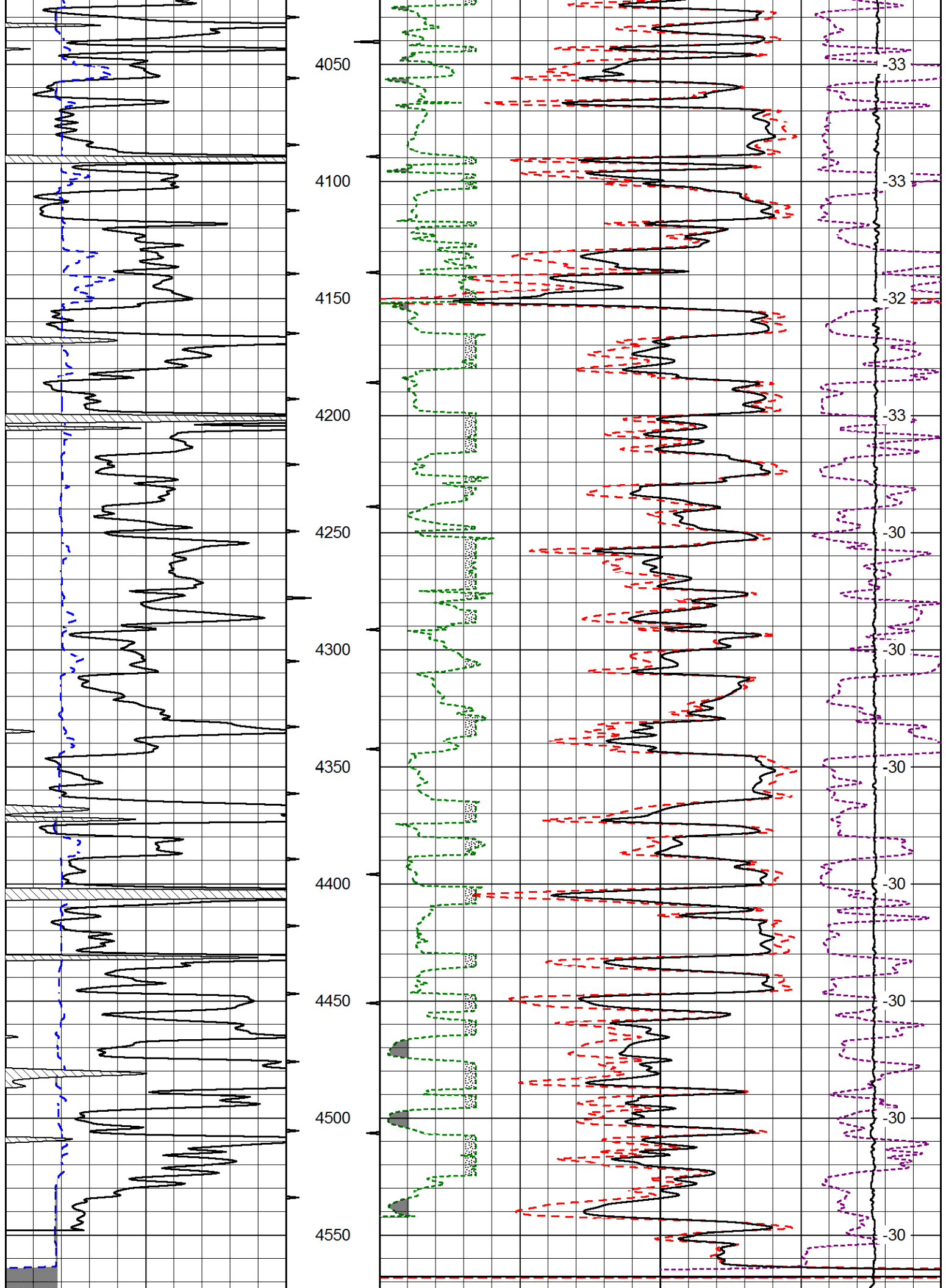
www.pioneerres.com

785-625-3858

Your Pioneer Energy Services Crew Engineer: J. LONG Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: BRAD RINE Secondary Witness: Secondary Witness: Secondary Witness:
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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)

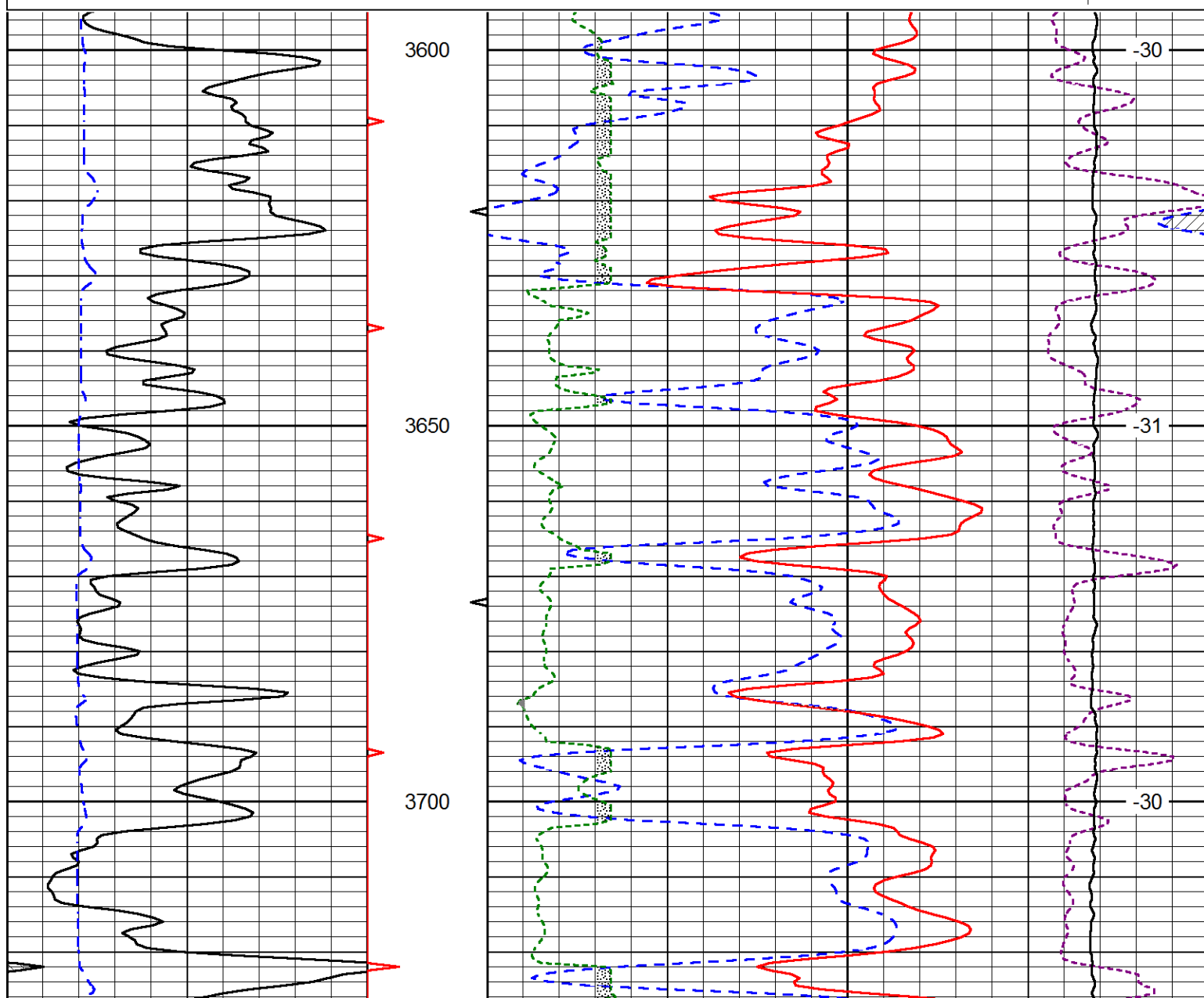


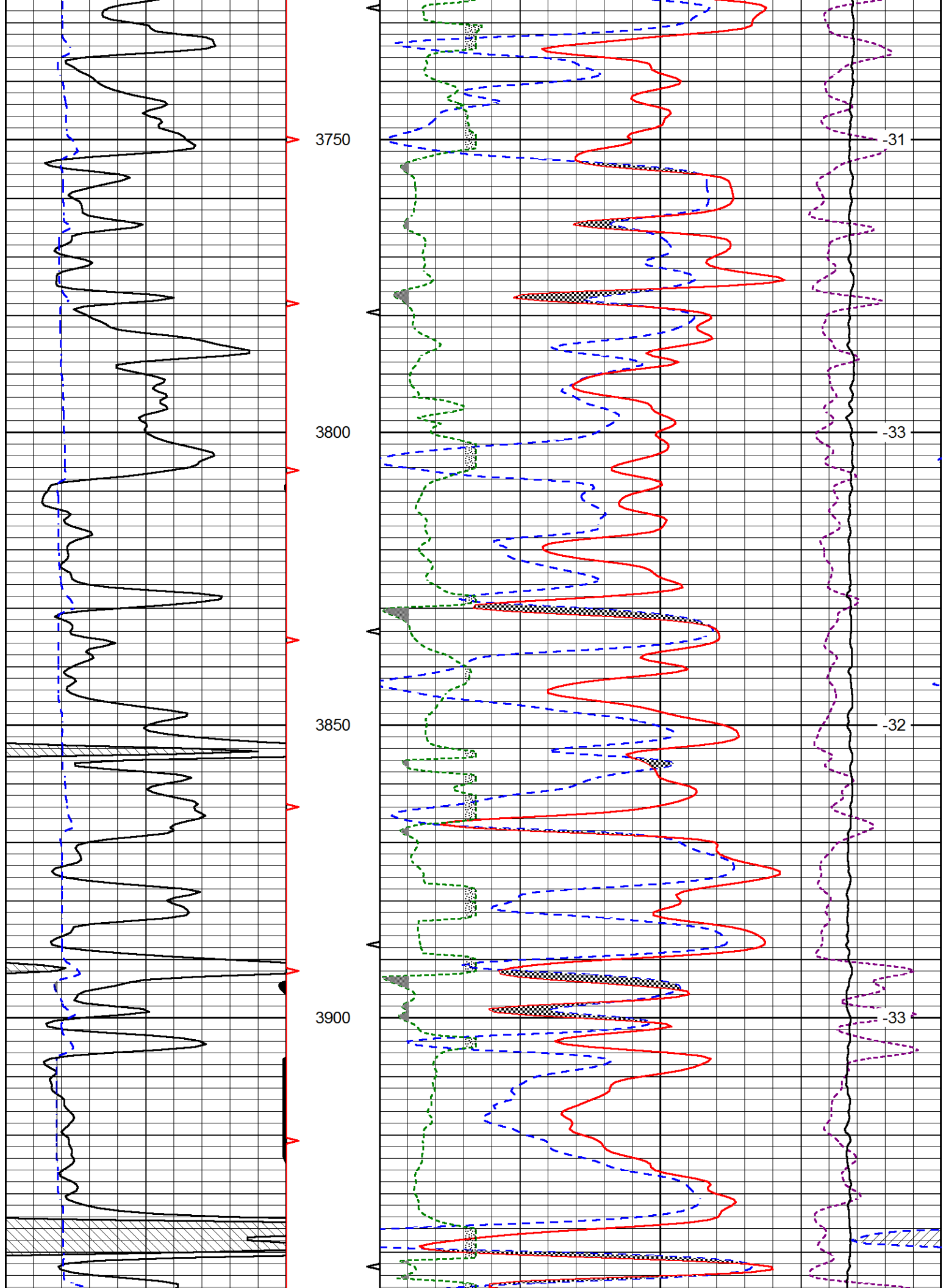


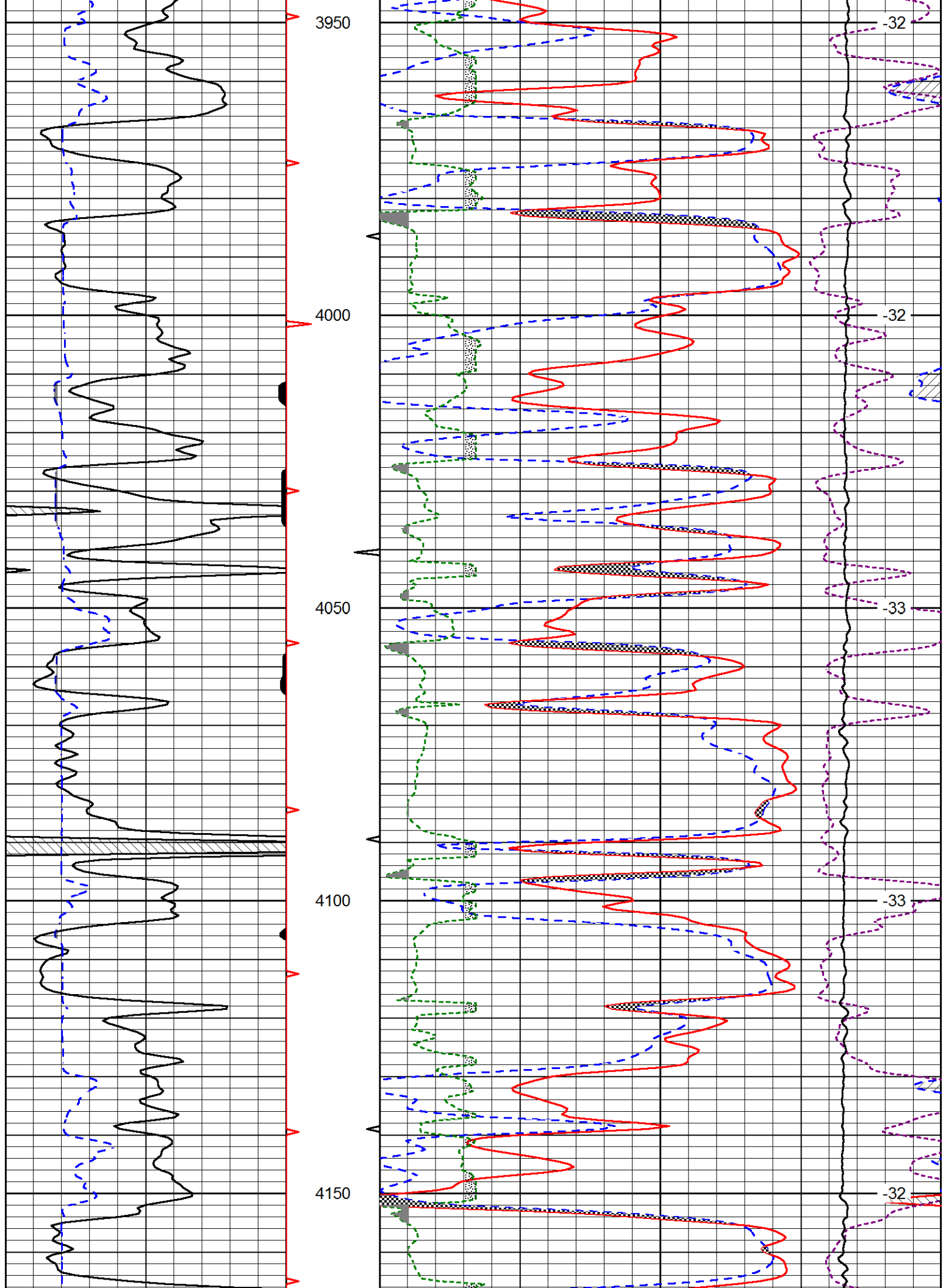
0	Gamma Ray (GAPI)	150	30	Compensated Density (pu)			-10
6	Caliper (in)	16	2	Bulk Density (g/cc)			3
			15000	Line Tension (lb)			0
			2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc) 0.25
							LSPD (ft/min)

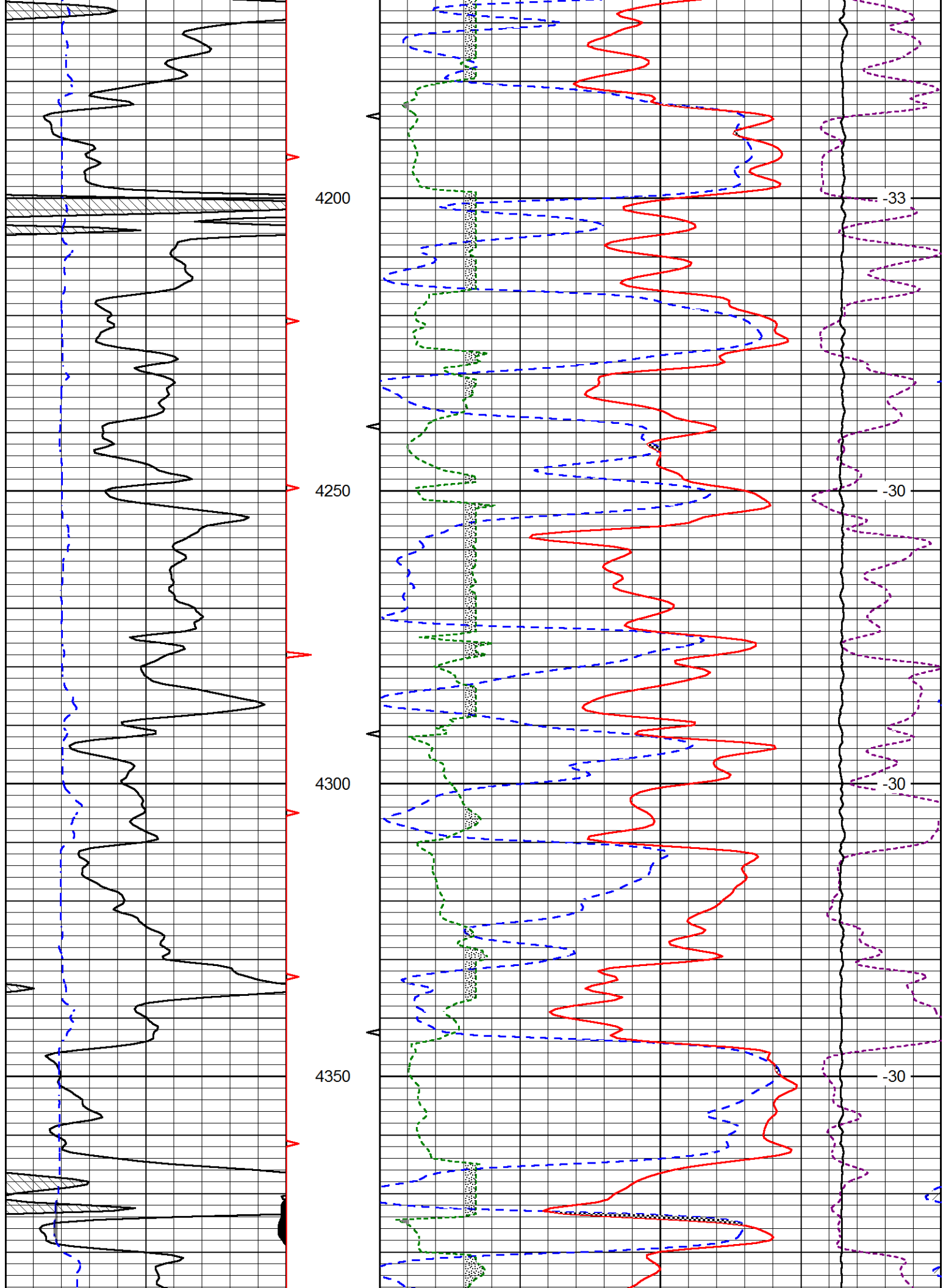
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 Presentation Format cndlspec
 Dataset Creation Wed Nov 11 19:06:15 2015
 Charted by Depth in Feet scaled 1:240

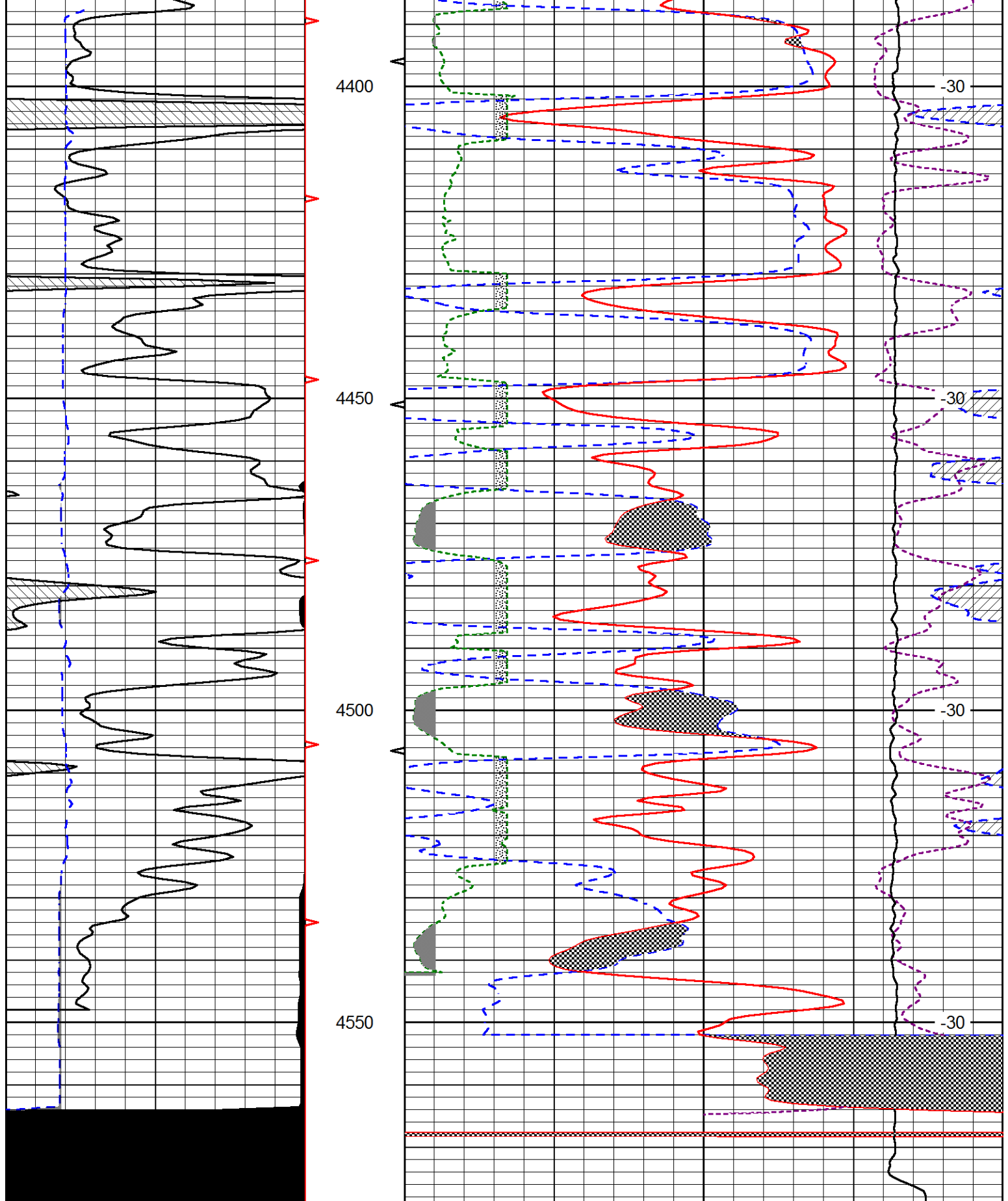
0	Gamma Ray (GAPI)	150	30	CNLS (pu)			-10
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)			-10
			10000	Line Tension (lb)			0
			2.625	DGA (g/cc)	3.425	-0.25	Correction (g/cc) 0.25
							LSPD (ft/min)











0	Gamma Ray (GAPI)	150	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)	

