



DUAL COMP POROSITY LOG

Company CARMEN SCHMITT, INC.
 Well LAWRENCE #1-14
 Field DEMAND NORTHWEST
 County LANE
 State KANSAS

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 Well LAWRENCE #1-14
 Field DEMAND NORTHWEST
 County LANE State KANSAS

Location: API #: 15-101-22567-00-00
 1617' FSL & 680' FEL
 SEC 14 TWP 16S RGE 28W
 Permanent Datum GROUND LEVEL Elevation 2723
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services DIL/MEL
 K.B. 2731
 D.F. N/A
 G.L. 2723

Date	8/8/2015
Run Number	ONE
Type Log	CNL/CDL/ML/DIL
Depth Driller	4640
Depth Logger	4639
Bottom Logged Interval	4610
Top Logged Interval	3500
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	3700
Density	9.2
Level	FULL
Max. Rec. Temp. F	122
Operating Rig Time	3 1/2 HOURS
Equipment -- Location	91 Hays
Recorded By	D. SCHMIDT
Witnessed By	BRAD RINE

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25	00	221	8.625	23#	00	221
TWO	7.875	221	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.

PENDENNIS,
2 WEST TO PAWNEE RD, 1 1/2 NORTH,
WEST AND NORTH INTO

Log Measured From: KELLY BUSHING 8 Ft. Above Permanent Datum

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

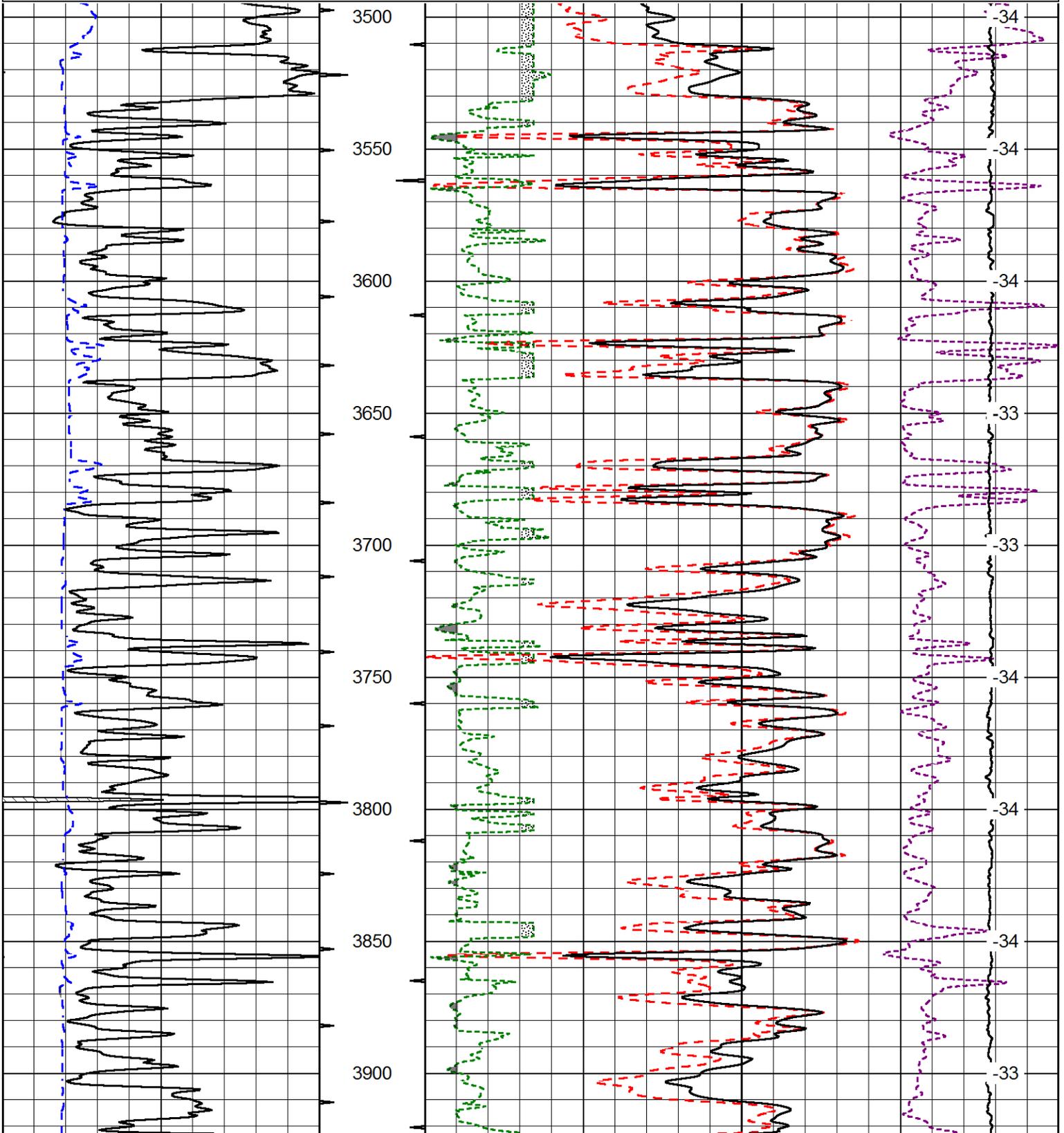
Your Pioneer Energy Services Crew Engineer: D. SCHMIDT Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: BRAD RINE Secondary Witness: Secondary Witness: Secondary Witness:
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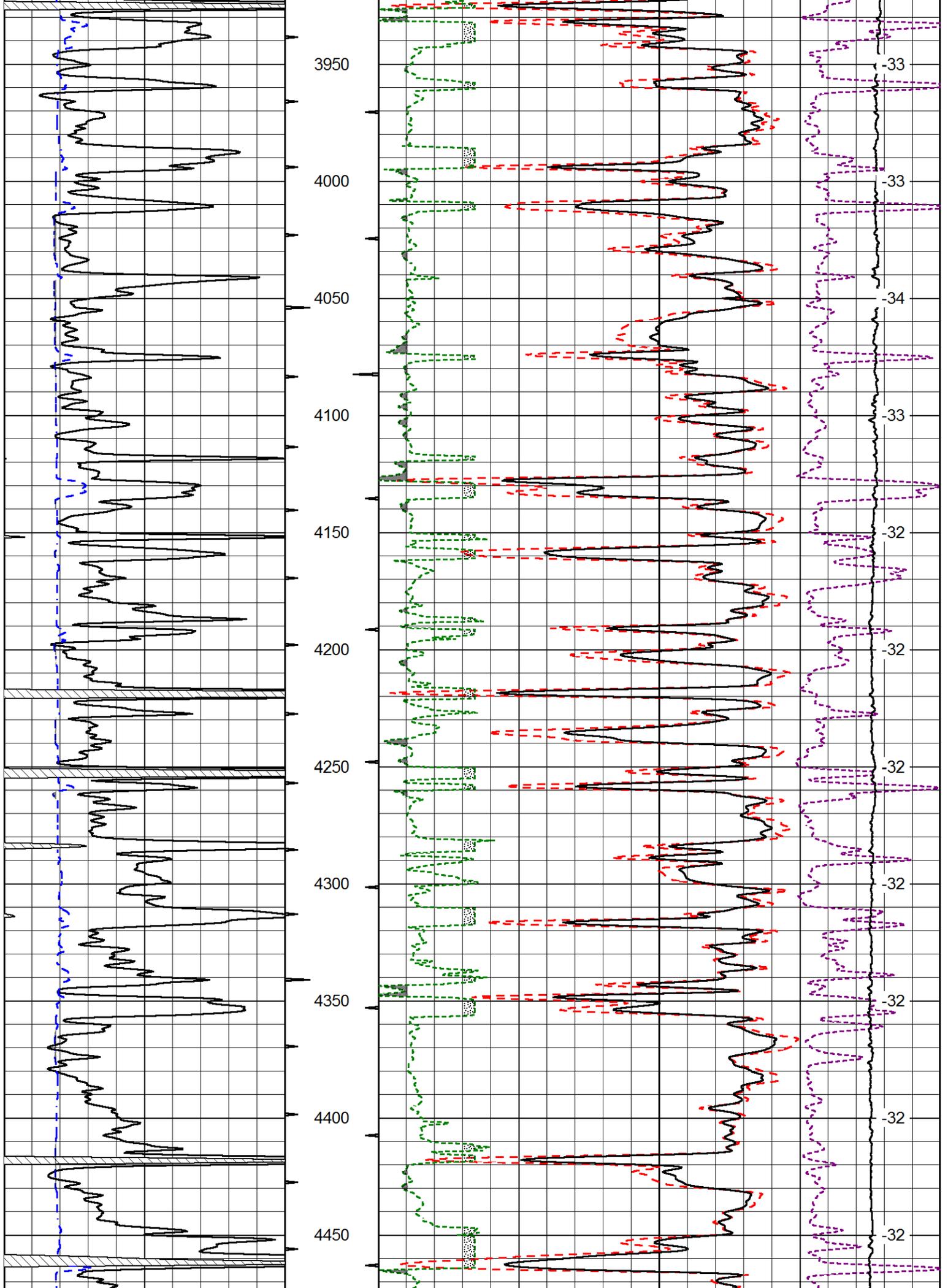
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 Presentation Format cdl
 Dataset Creation Sat Aug 08 17:34:43 2015
 Charted by Depth in Feet scaled 1:600

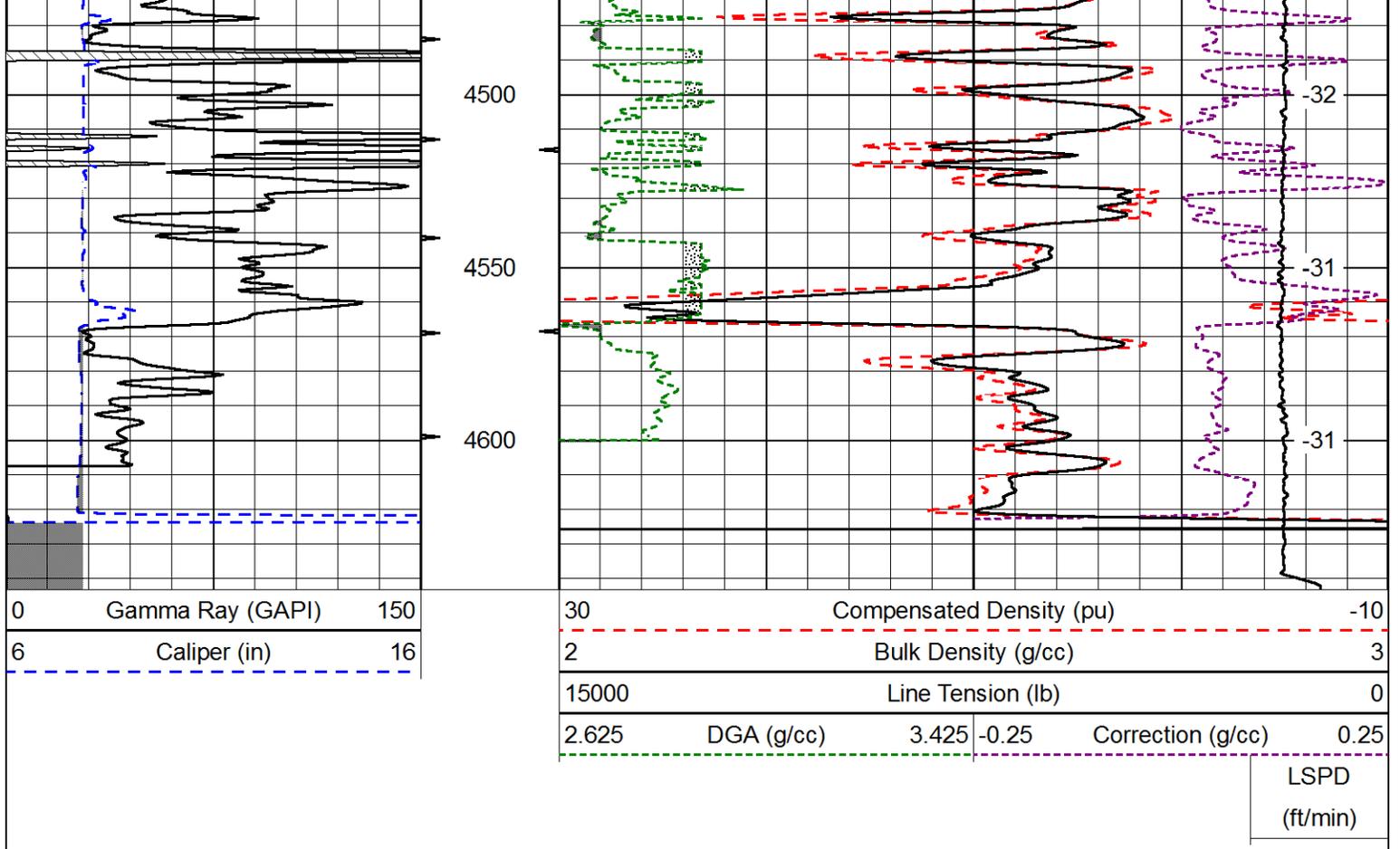
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
	Correction (g/cc)		0.25

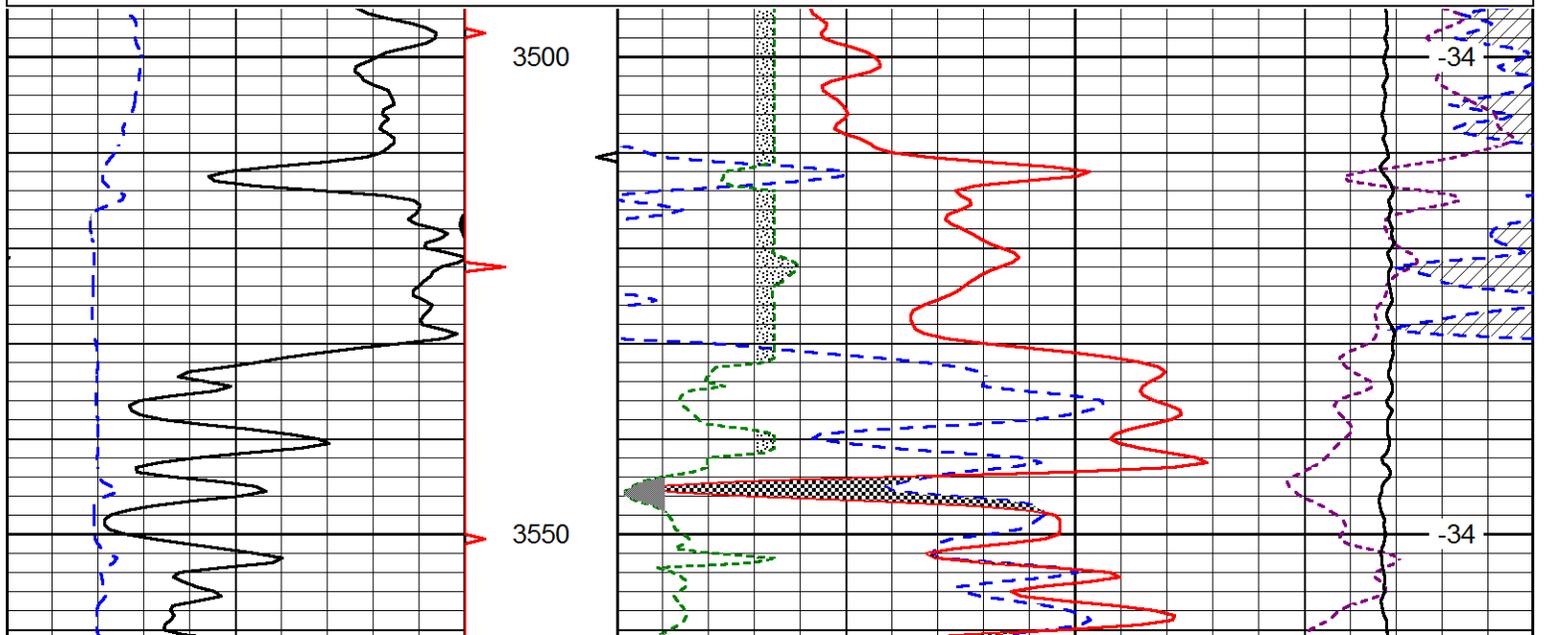
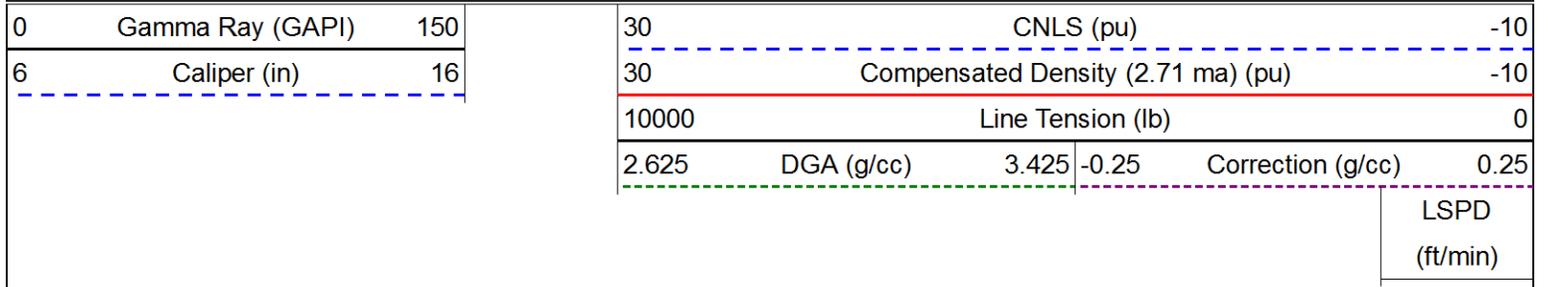
LSPD
(ft/min)

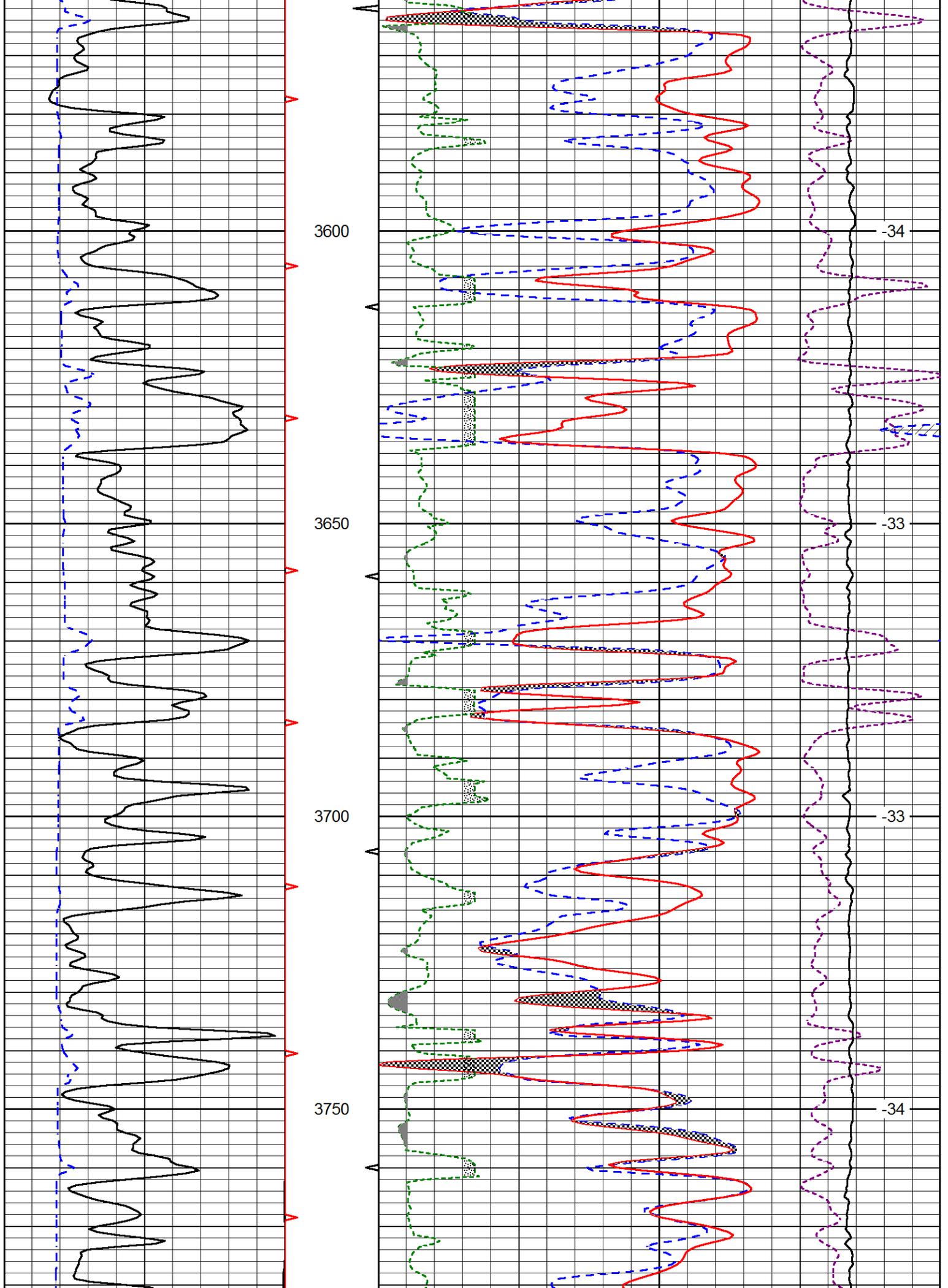


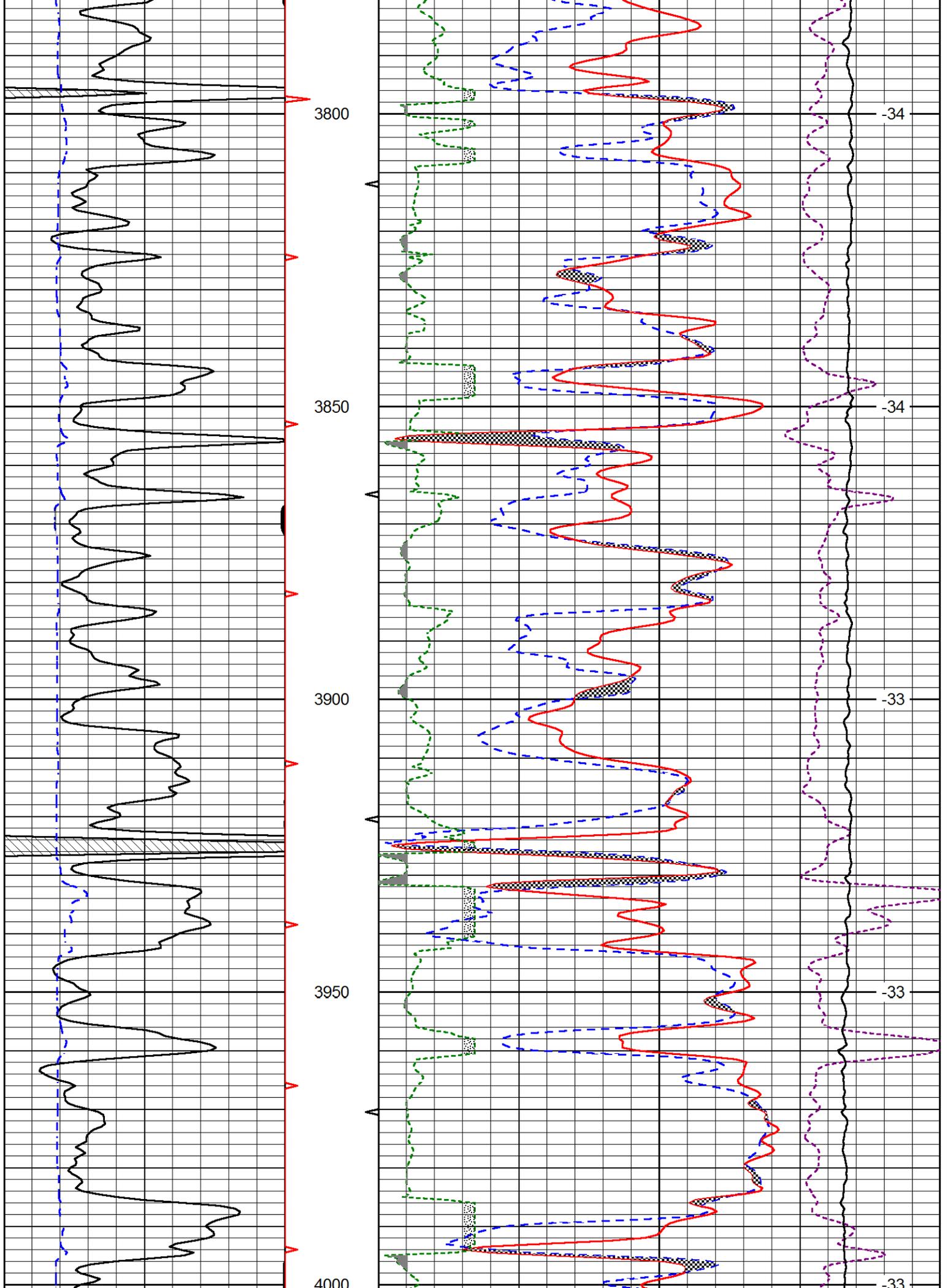


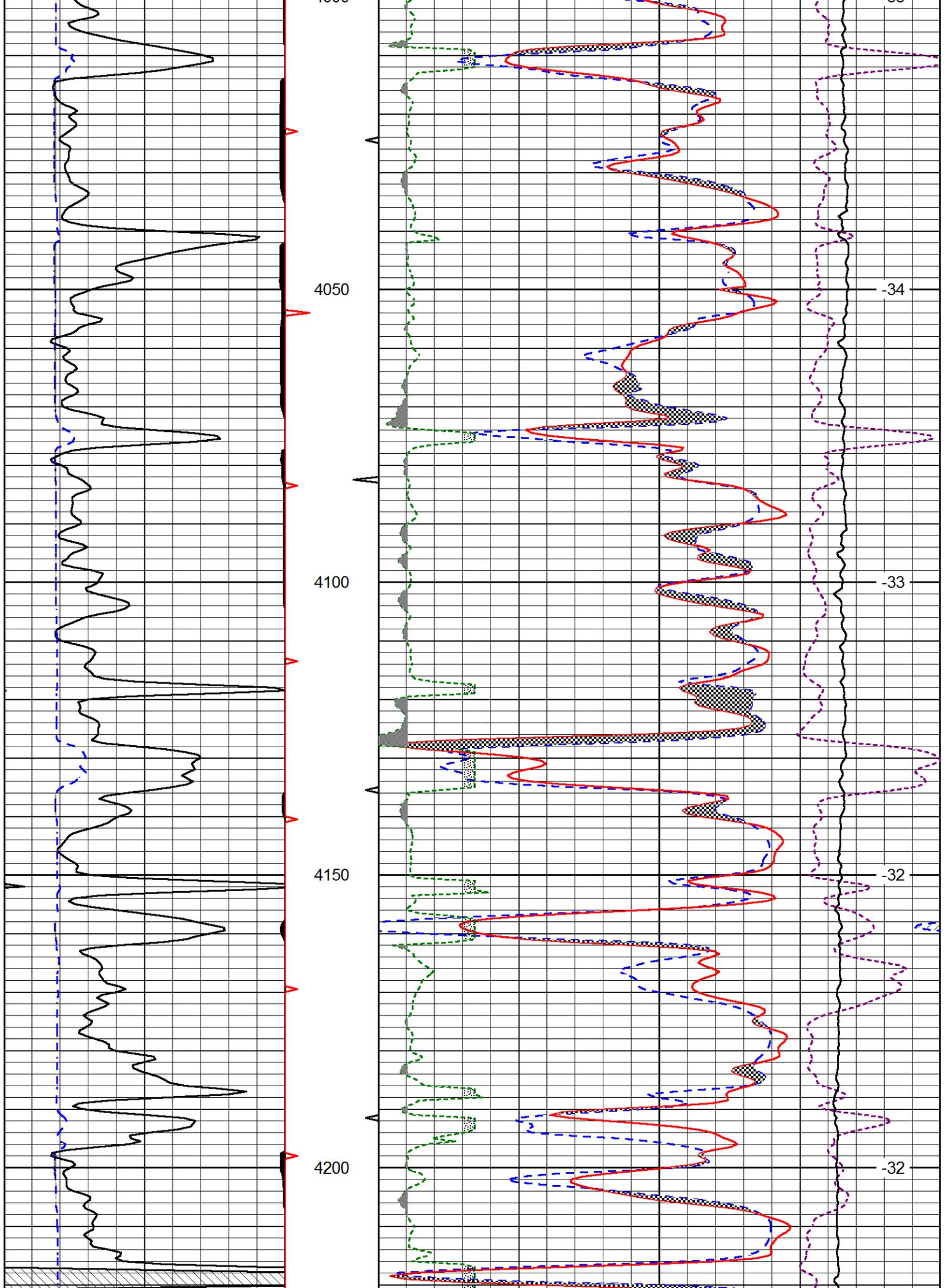


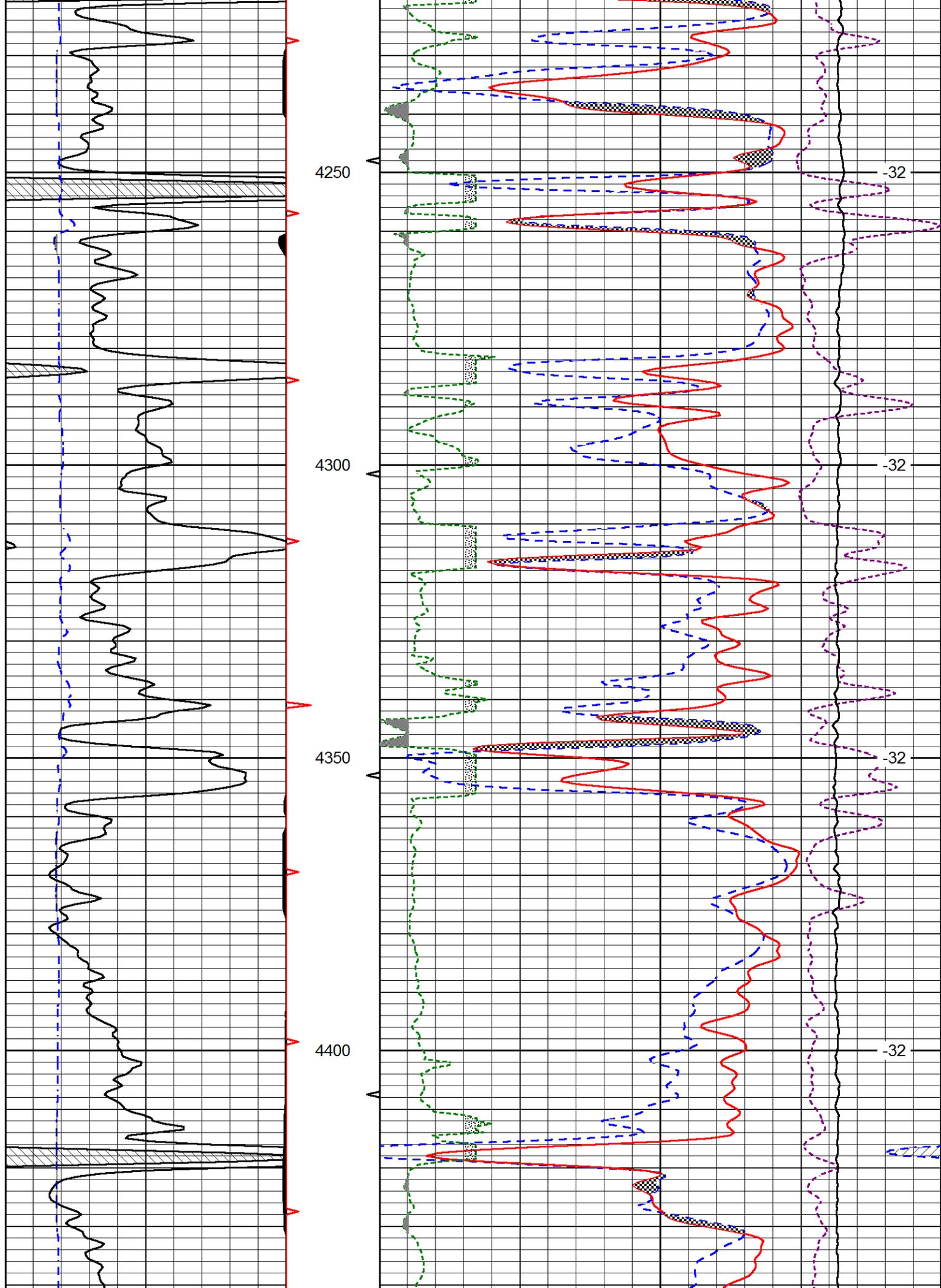
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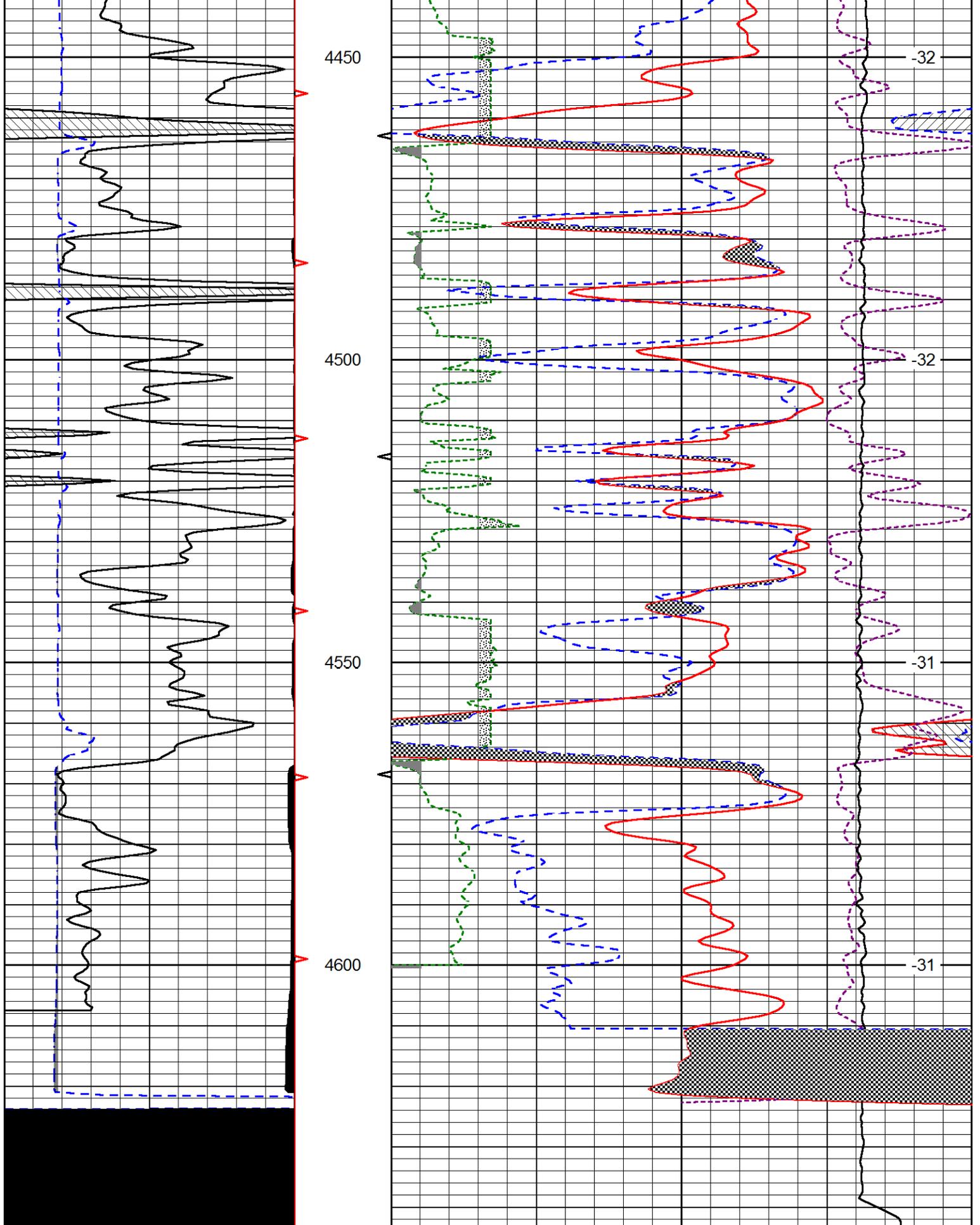












0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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)	LSPD (ft/min)	LSPD (ft/min)
		LSPD (ft/min)