

PIONEER
Pioneer Energy Services

**DUAL COMP POROSITY
LOG**

CompanyBLACKSTONE OIL & GAS (KS), LLC	
Well	MDNR NO. 1-3
Field	REICHEL EAST
County	RUSH
State	KANSAS

Company	BLACKSTONE OIL & GAS (KS), LLC
Well	MDNR NO. 1-3
Field	REICHEL EAST
County	RUSH
State	KANSAS

Location:	API # : 15-165-22,121-00-00	Other Services
467' FNL & 467' FEL		DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation 1971'
Log Measured From	KELLY BUSHING	K.B. 1977'
Drilling Measured From	KELLY BUSHING	D.F. N/A
		G.L. 1971'

Date	2/14/2016
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	2600'
Depth Logger	2599'
Bottom Logged Interval	2570'
Top Logged Interval	1800'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	6000
Density	8.9
Level	FULL
Max. Rec. Temp. F	102 DEG F
Operating Rig Time	2 HOURS
Equipment -- Location	108 Hays
Recorded By	J. LONG
Witnessed By	ROD ANDERSEN

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25	00	1024	8.625	23#	00	1024
TWO	7.875	1024	TD				

<<< Fold Here >>>

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.

OTIS, 1 WEST, 1 SOUTH, 100' WEST, SOUTH INTO

Log Measured From: KELLY BUSHING
6
Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

This Log Record Was Witnessed By

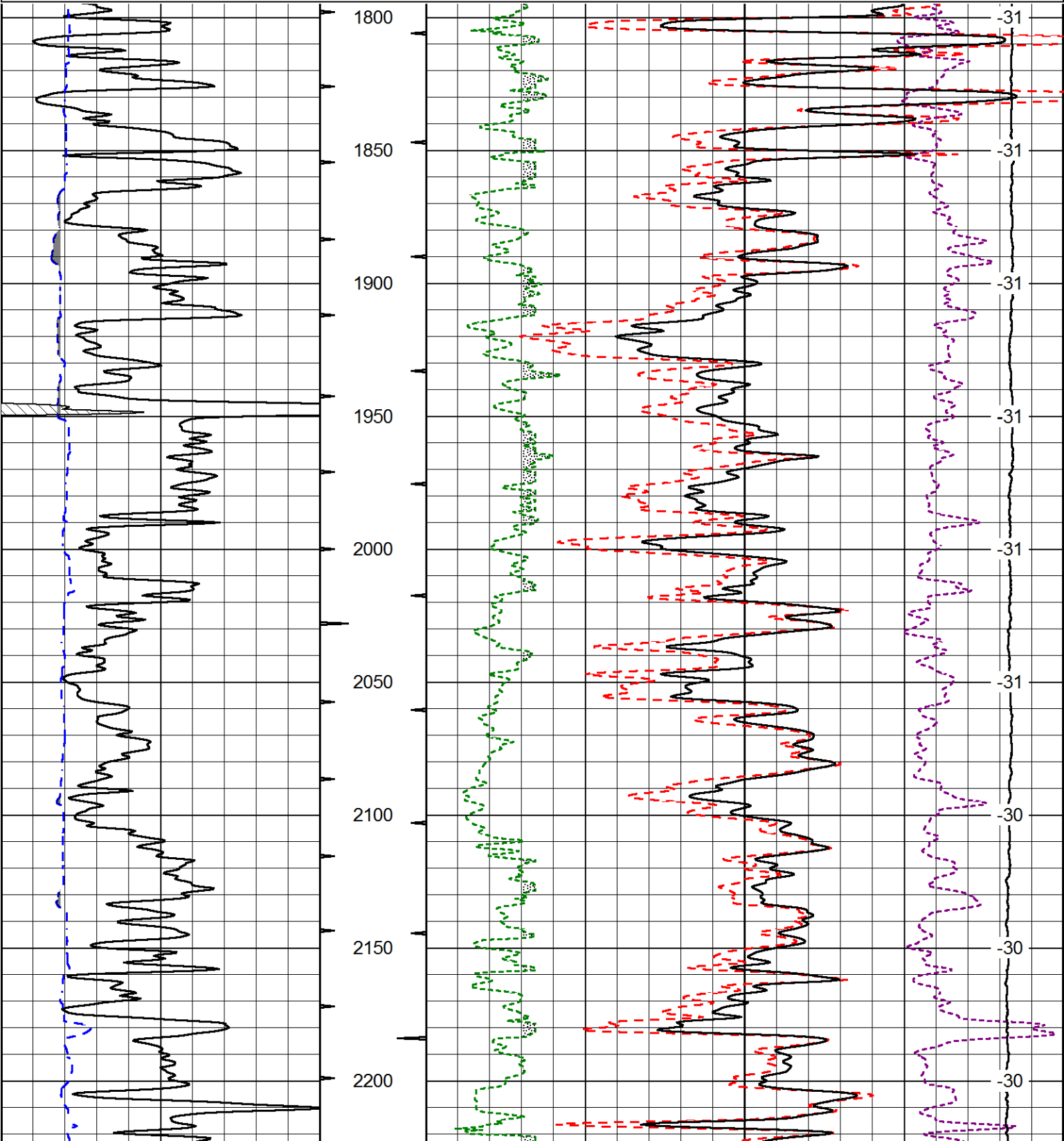
Engineer: J. LONG
Operator:
Operator:
Operator:

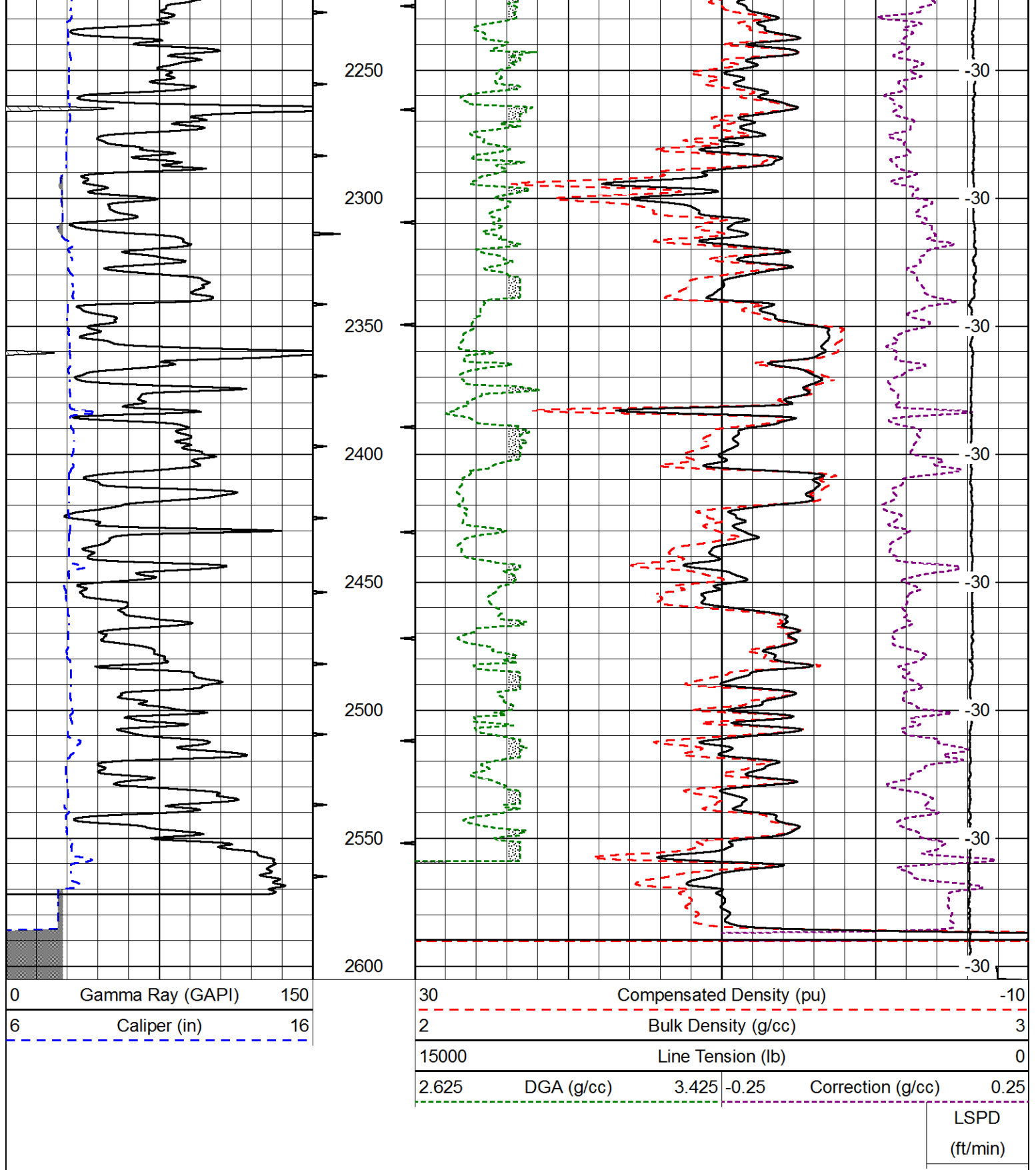
Primary Witness: ROD ANDERSEN
Secondary Witness:
Secondary Witness:
Secondary Witness:

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)

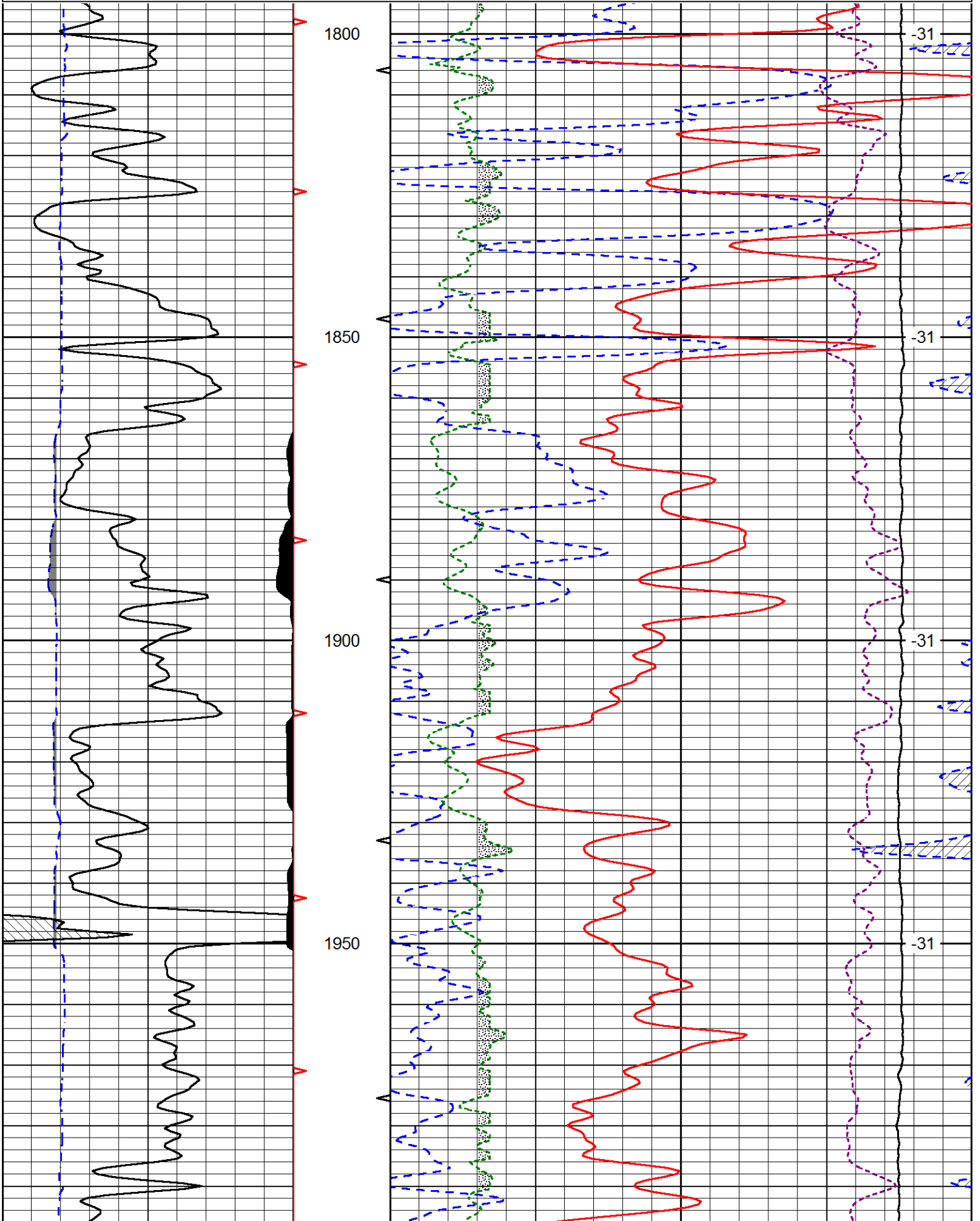


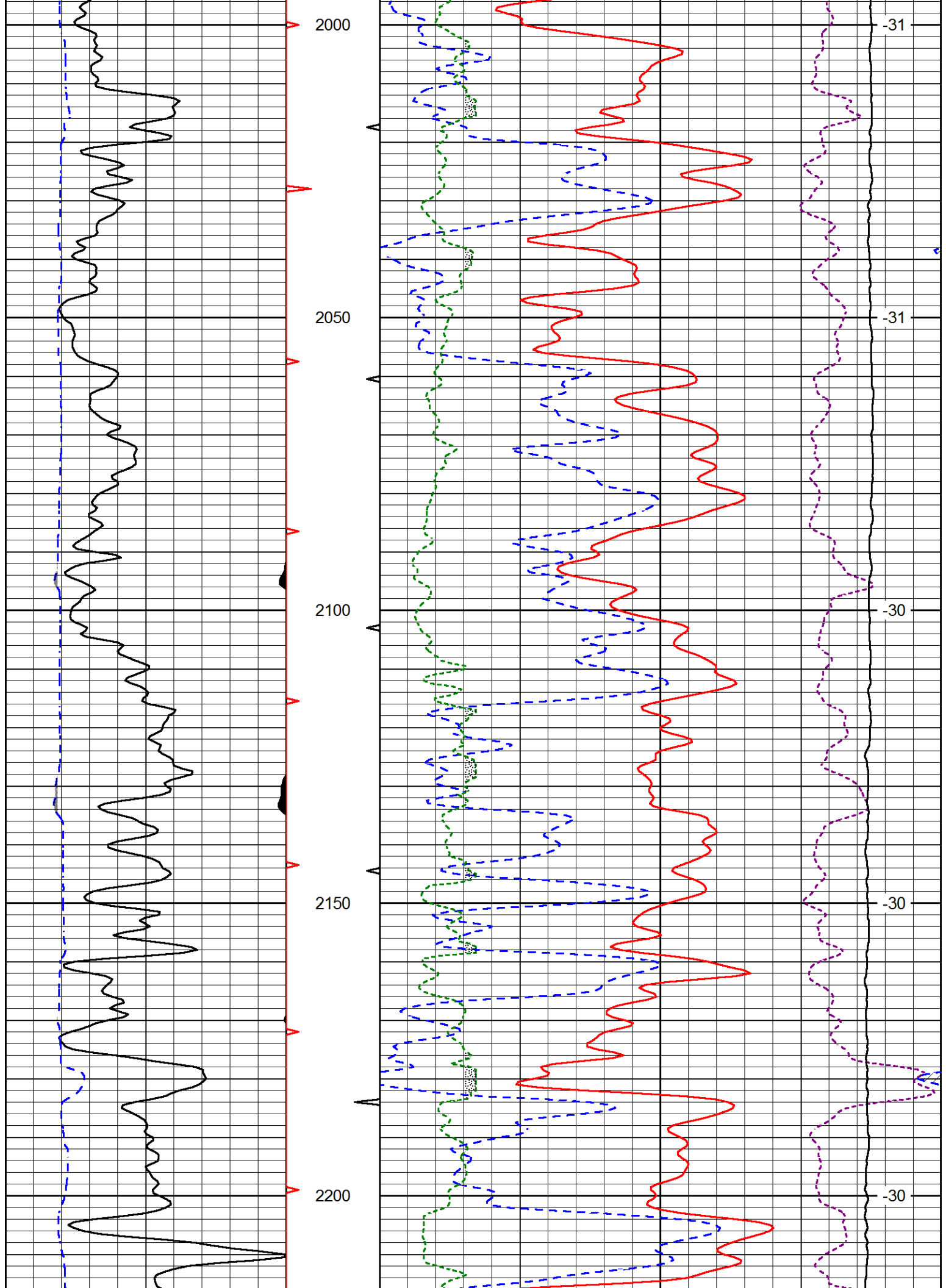


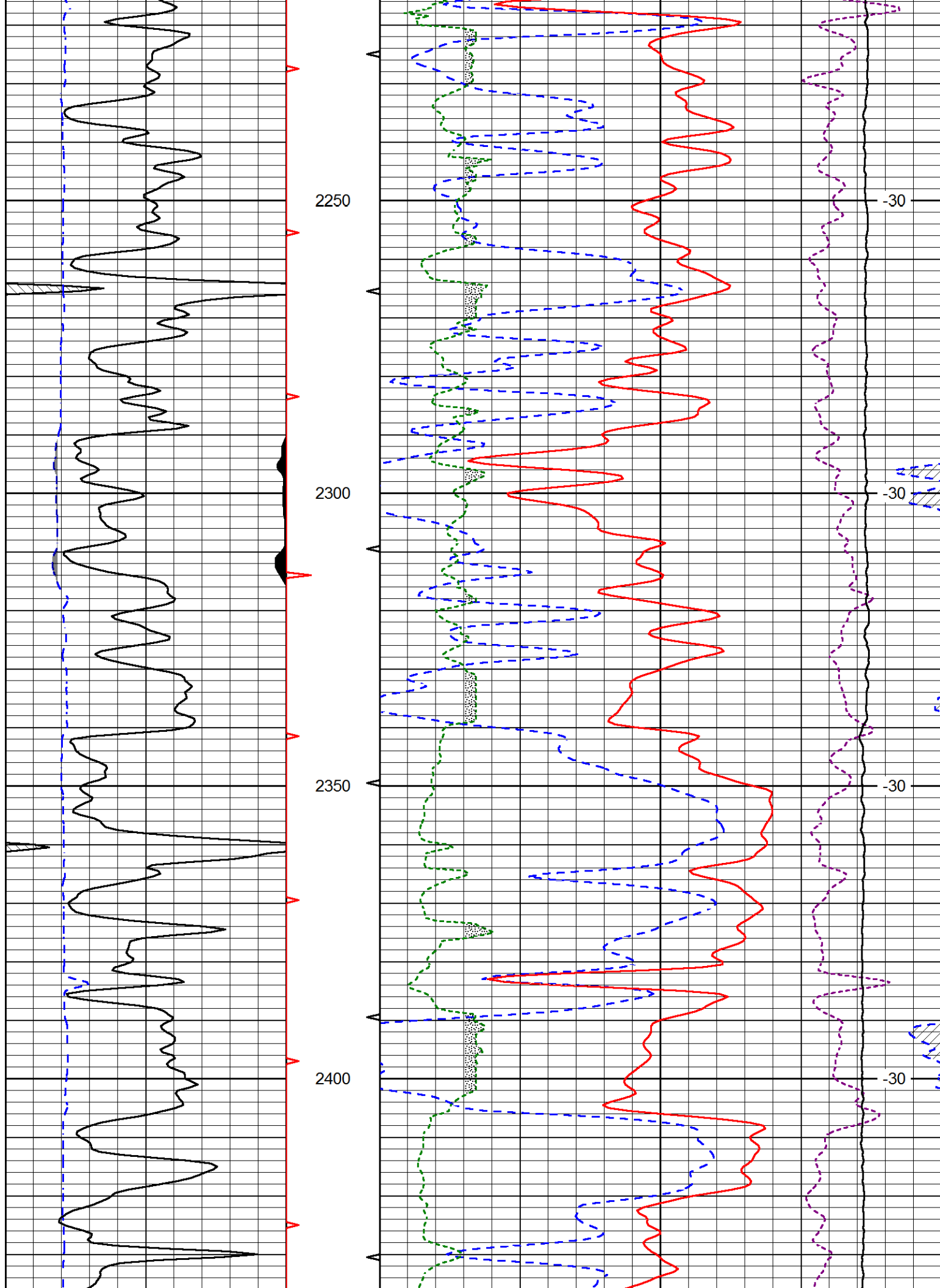
Database File	blackstone_mdnr_1-3hd.db
Dataset Pathname	DIL/blckstck
Presentation Format	cnlspec
Dataset Creation	Sun Feb 14 15:50:14 2016
Charted by	Depth in Feet scaled 1:240

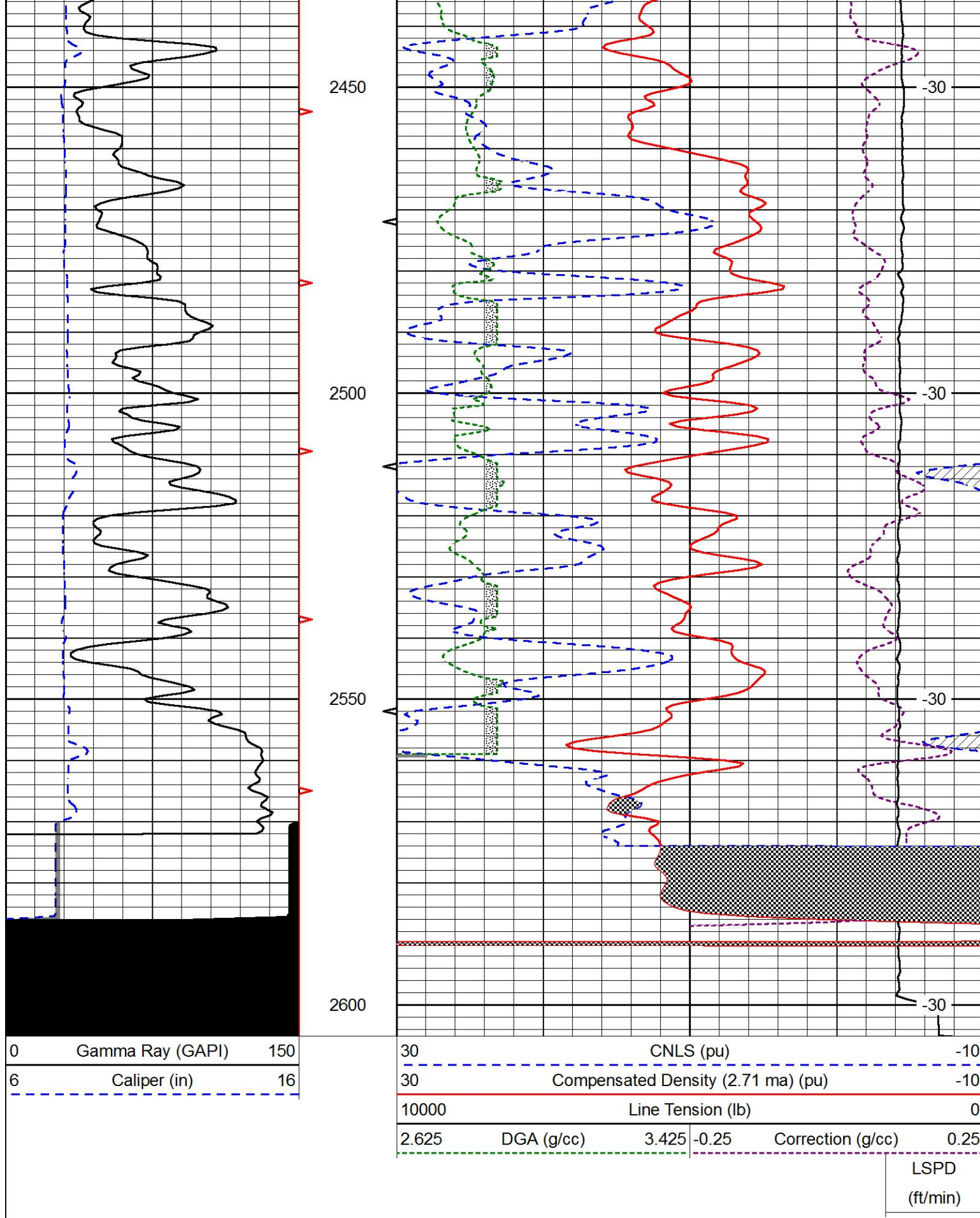
0	Gamma Ray (GAPI)	150	30	CNLS (pu)	-10
6	Caliper (in)	16	30	Compensated Density (2.71 ma) (pu)	-10
			15000	Line Tension (lb)	0
			2.625	DGA (g/cc)	3.425
			-0.25	Correction (g/cc)	0.25
				LSPD (ft/min)	

10000	Line tension (lb)		0
2.625	DGA (g/cc)	3.425 -0.25	Correction (g/cc) 0.25
			LSPD (ft/min)





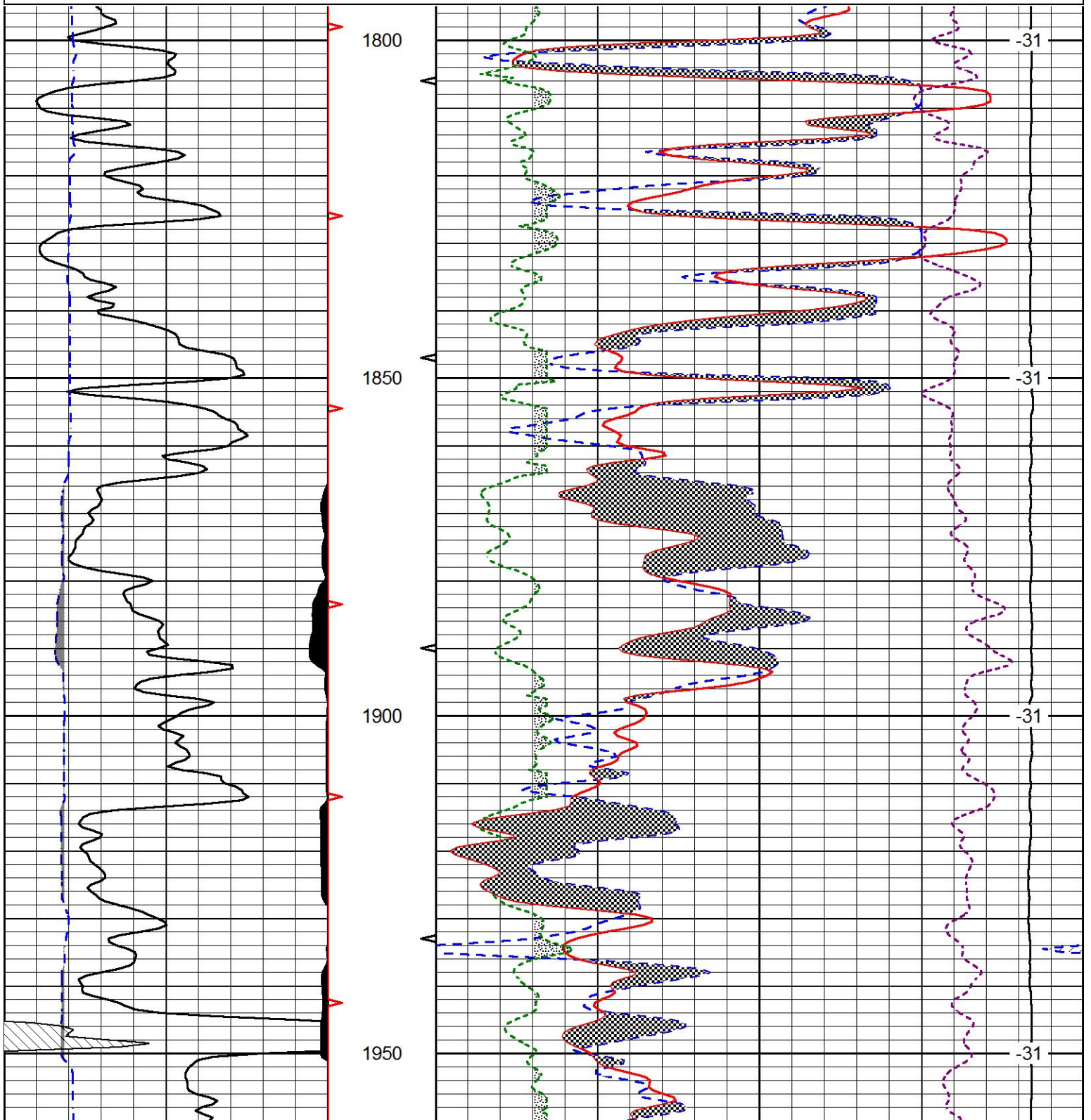


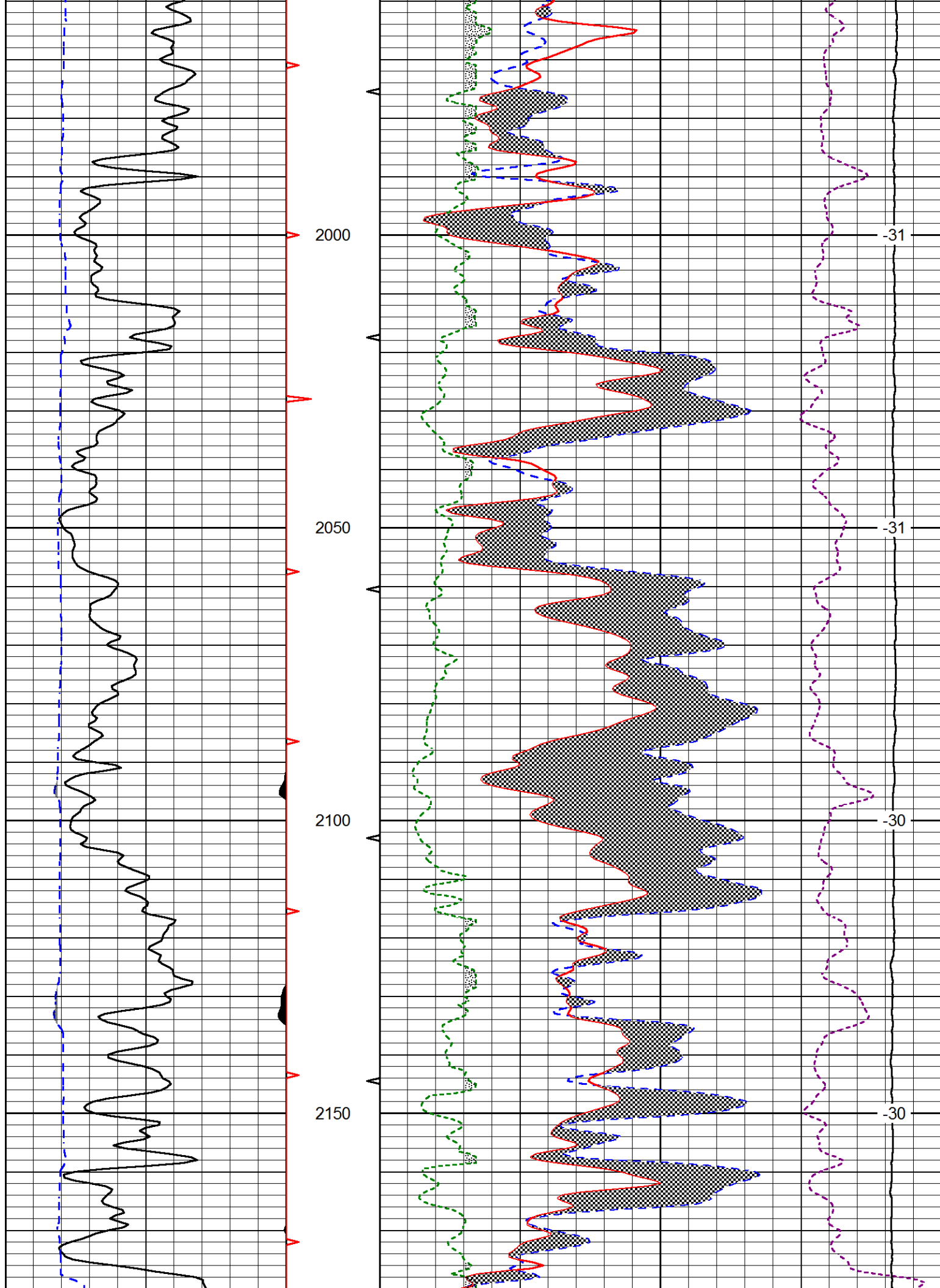


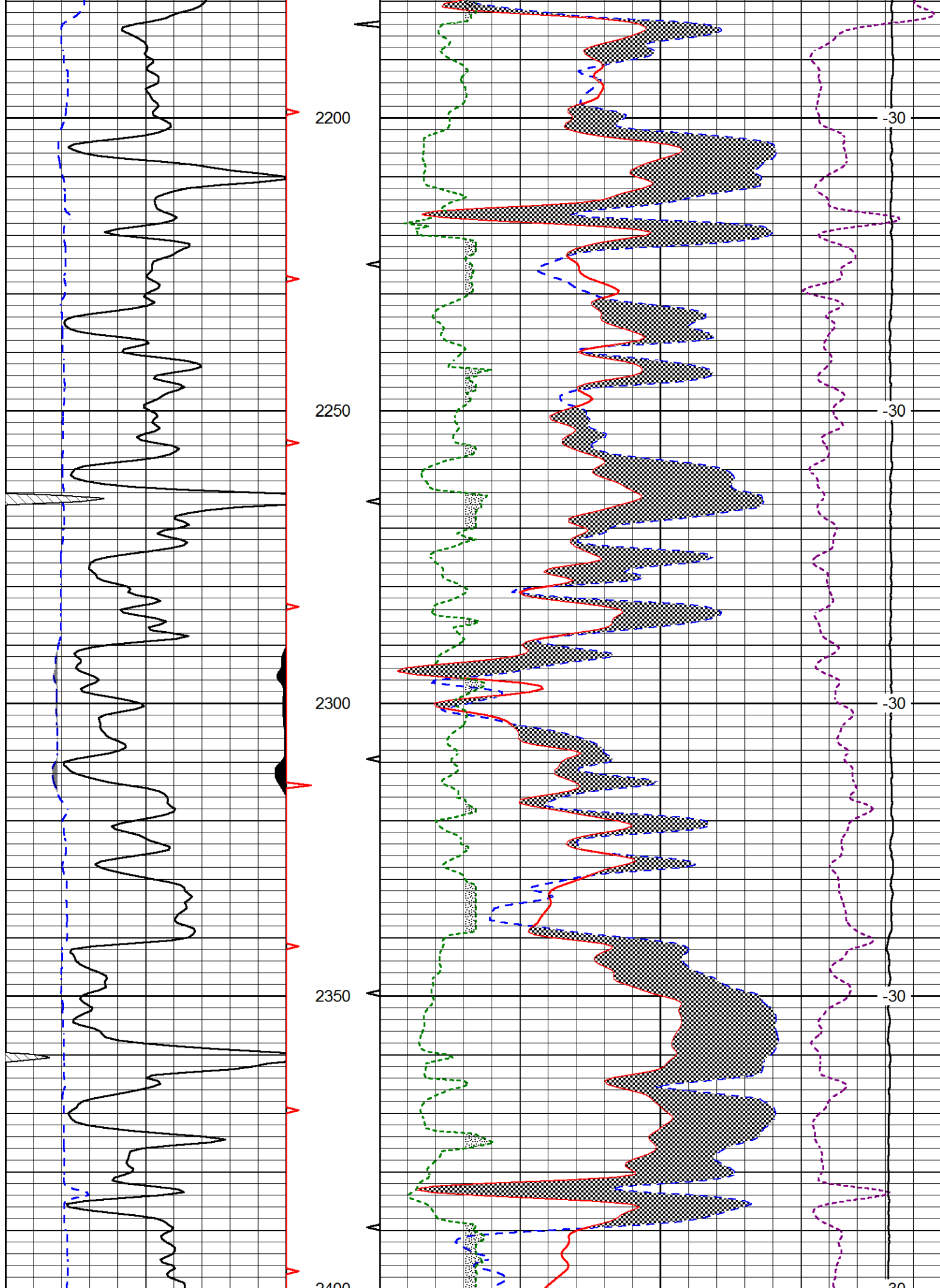
Database File blackstone_mdnr_1-3hd.db
Dataset Pathname DIL/blck283
Presentation Format cndldol
Dataset Creation Sun Feb 14 16:09:54 2016
Charted by Depth in Feet scaled 1:240

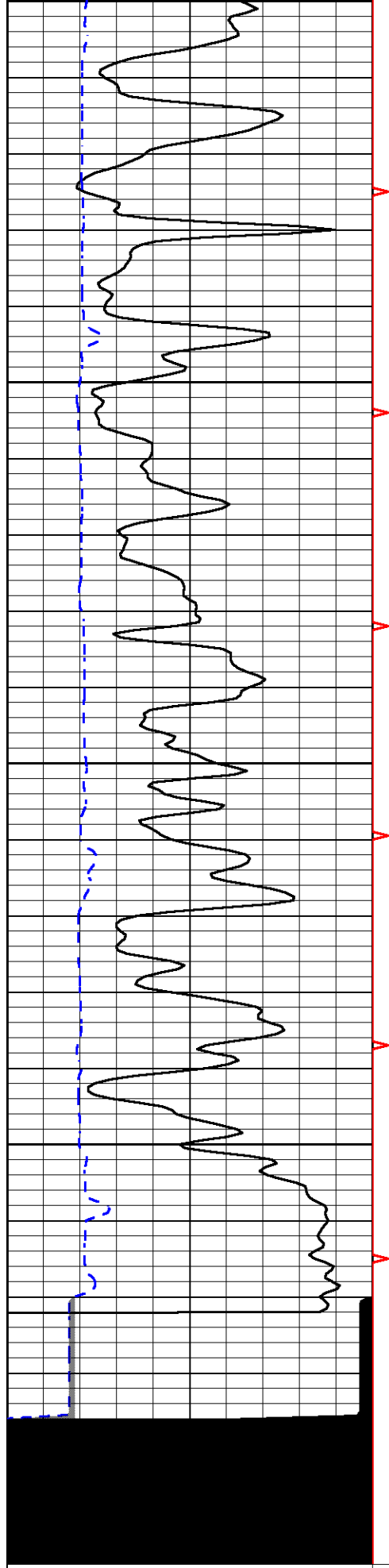
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	cnpor (pu)		-10
30	Compensated Density (pu)		-10
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
Correction (g/cc)		0.25	
LSPD (ft/min)			

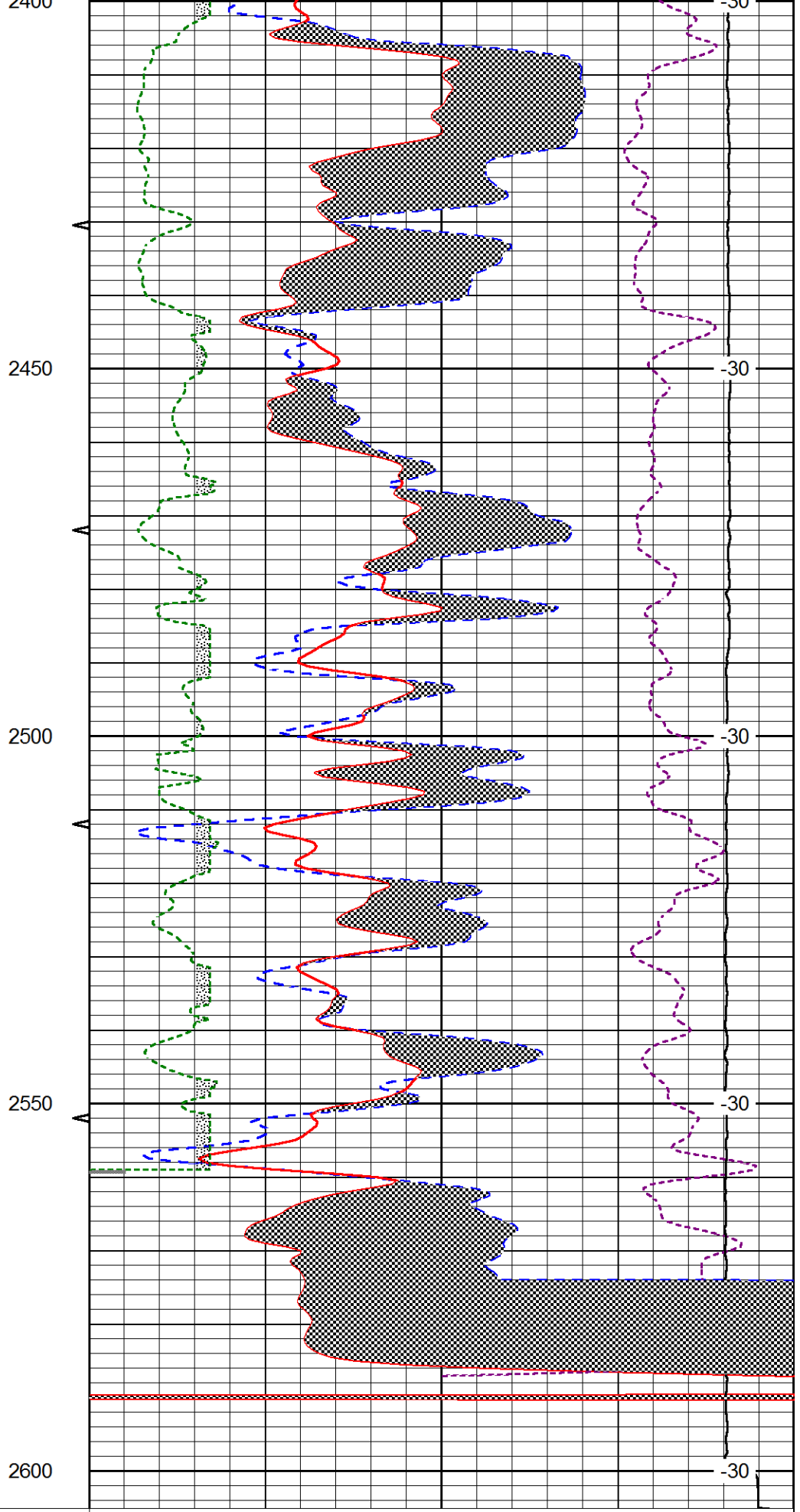








0	Gamma Ray (GAPI)	150
6	Caliper (in)	16



30	cnpor (pu)	-10
30	Compensated Density (pu)	-10
15000	Line Tension (lb)	0

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