PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company CARODEN ENERGY, LLC
Well THELMA #1
Field STOLTENBERG
County ELLSWORTH State KANSAS

Location: API #: 15-053-21345-00-00
1400' FSL & 1020' FWL
SEC 1 TWP 17S RGE 10W

Other Services: DIL/MEL

Elevation: K.B. 1812' D.F. N/A G.L. 1804'

Permanent Datum: GROUND LEVEL Elevation 1804'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Company	CARODEN ENERGY, LLC
Well	THELMA #1
Field	STOLTENBERG
County	ELLSWORTH
State	KANSAS
Location:	API #: 15-053-21345-00-00
	1400' FSL & 1020' FWL
	SEC 1 TWP 17S RGE 10W
Other Services	DIL/MEL
Elevation	K.B. 1812' D.F. N/A G.L. 1804'
Permanent Datum	GROUND LEVEL Elevation 1804'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Date	5/17/2016							
Run Number	ONE							
Type Log	CNL/CDL							
Depth Driller	3360'							
Depth Logger	3362'							
Bottom Logged Interval	3333'							
Top Logged Interval	2100'							
Type Fluid In Hole	CHEMICAL							
Salinity, PPM CL	3800							
Density	9.4							
Level	FULL							
Max. Rec. Temp. F	110							
Operating Rig Time	3 HOURS							
Equipment -- Location	91 COLBY							
Recorded By	D. SCHMIDT							
Witnessed By	HERB DEINES							

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	00'	322'	8.625"	23#	00'	322'
TWO	7.875"	322'	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.

HOLLYROOD,
1 1/2 EAST ON AVE T, NORTH INTO

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

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

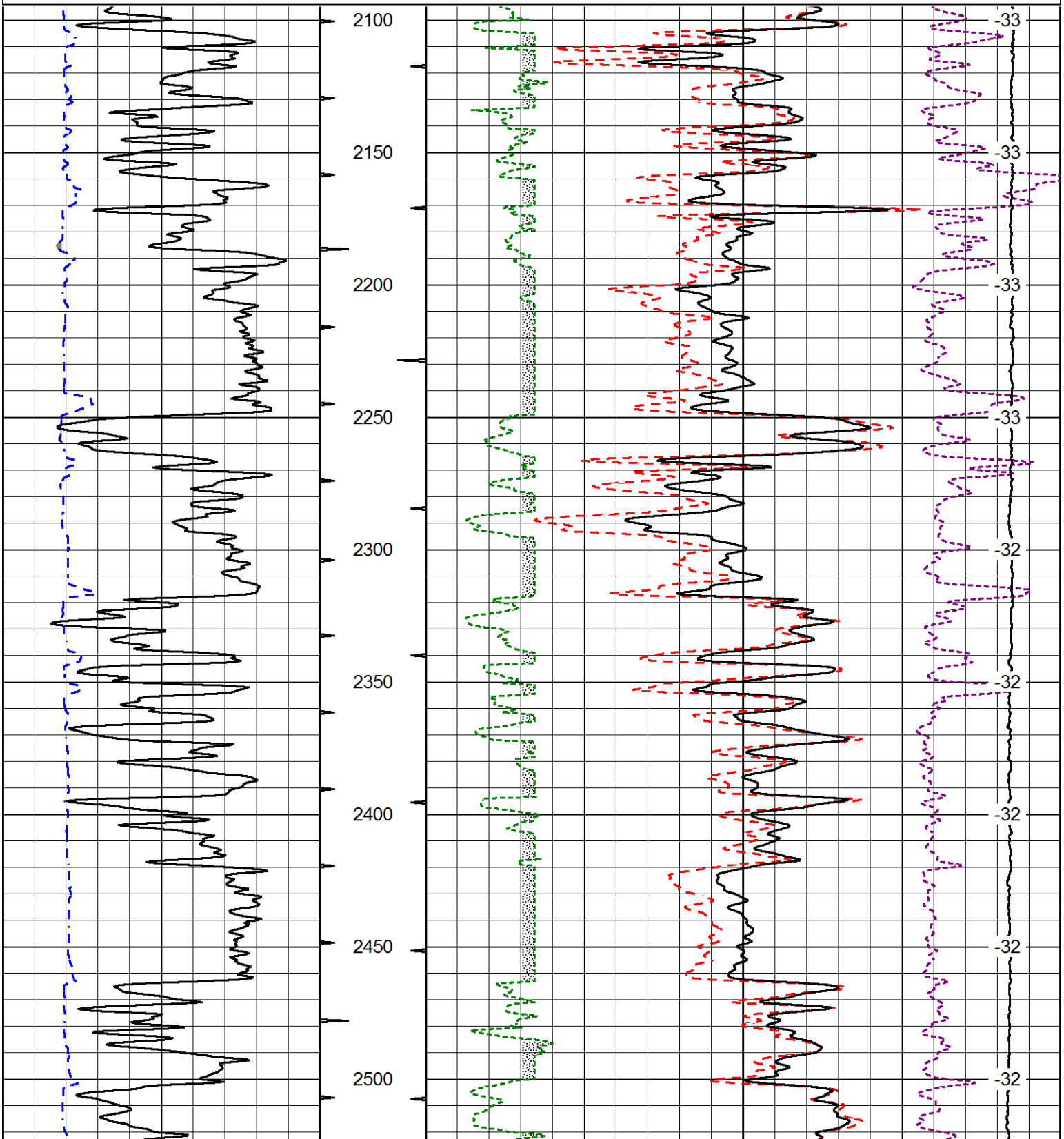
Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: D. SCHMIDT	Primary Witness: HERB DEINES
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

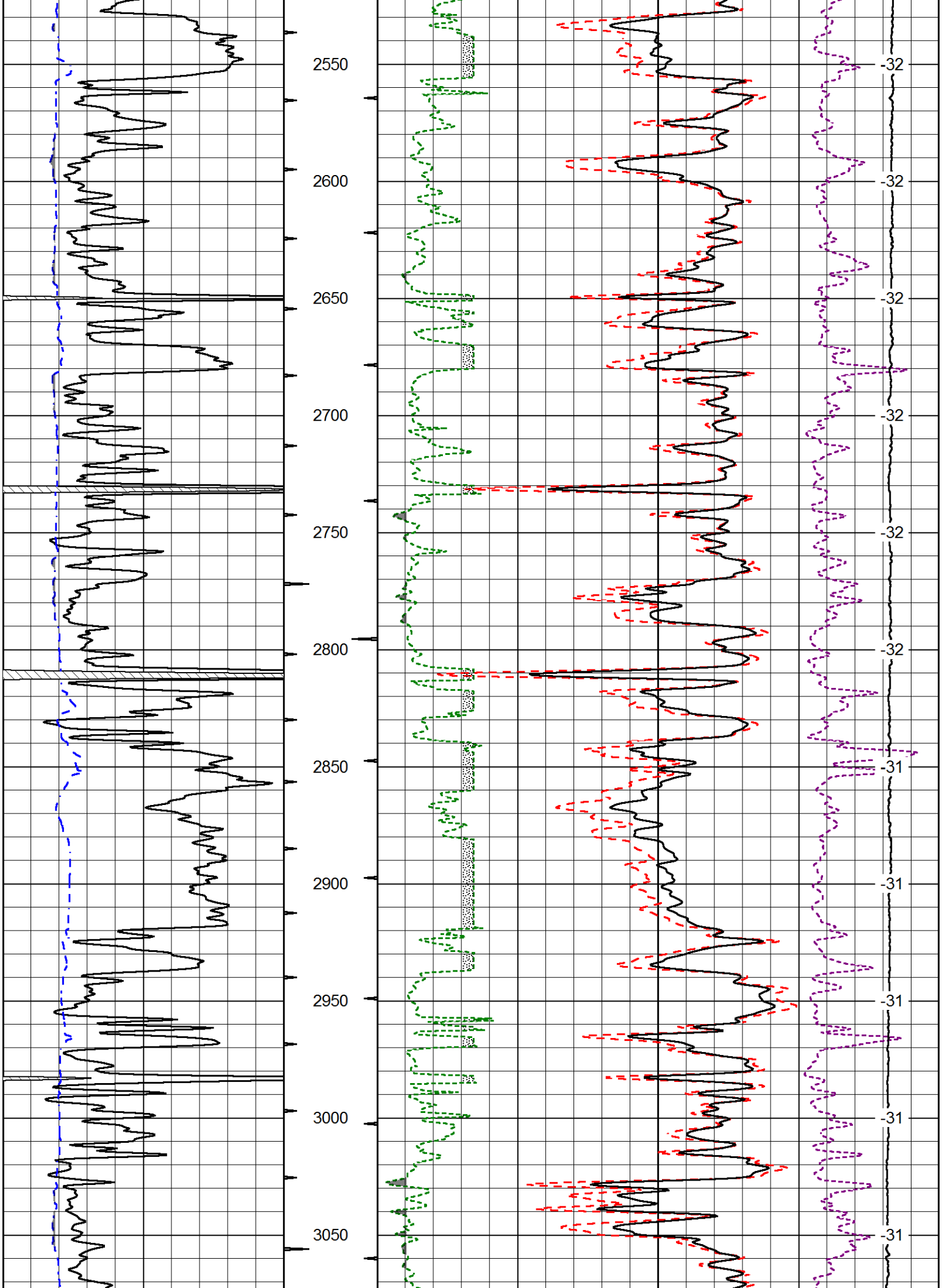
Database File	caroden_thelma_1hd.db
Dataset Pathname	DIL/castkml
Presentation Format	cdl
Dataset Creation	Wed May 18 00:04:48 2016
Charted by	Depth in Feet scaled 1:600

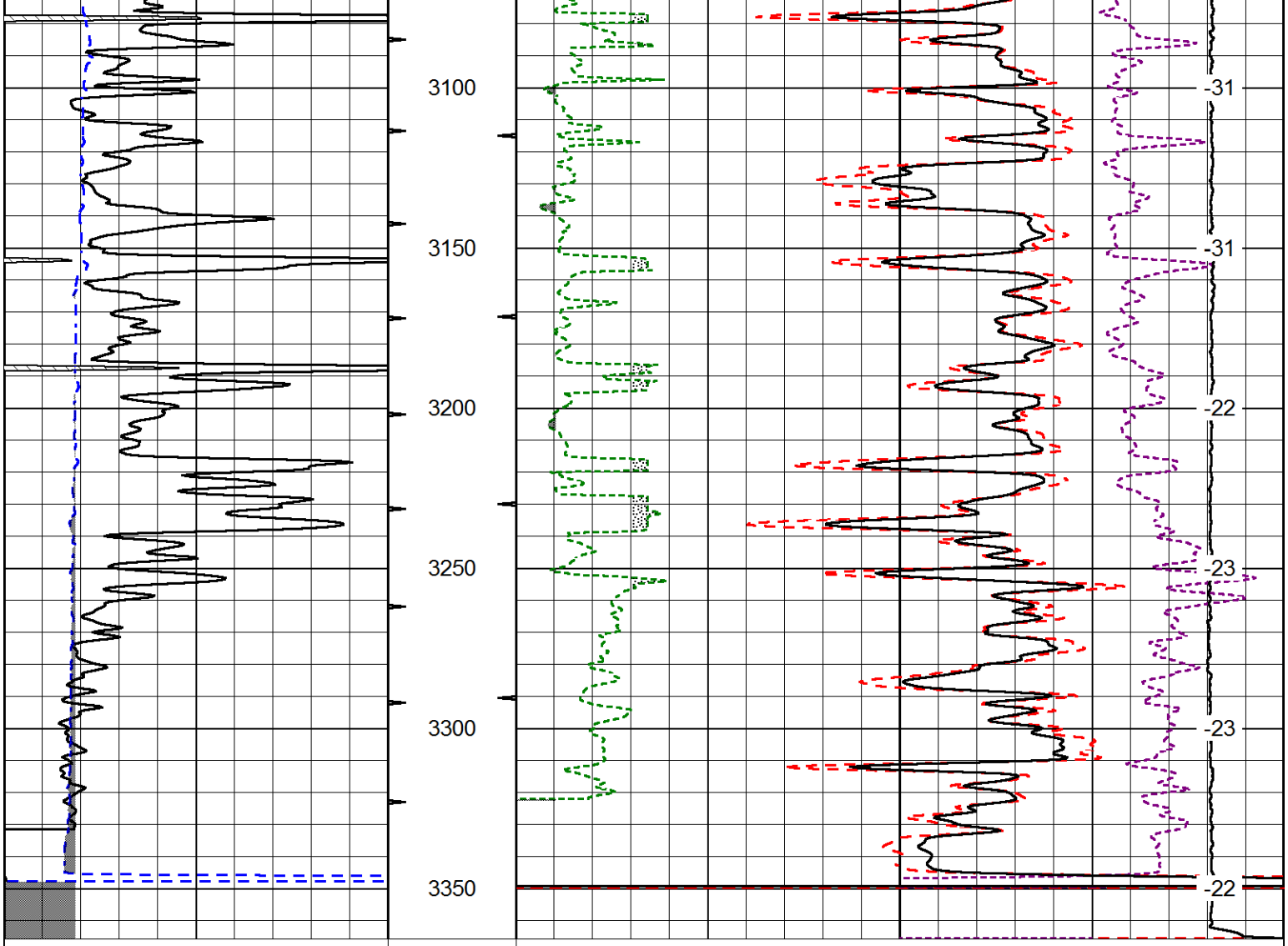
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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)




2550
2600
2650
2700
2750
2800
2850
2900
2950
3000
3050
-32
-32
-32
-32
-32
-31
-31
-31
-31
-31



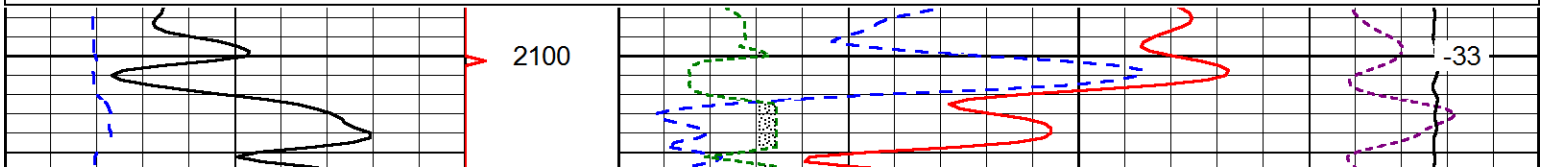
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

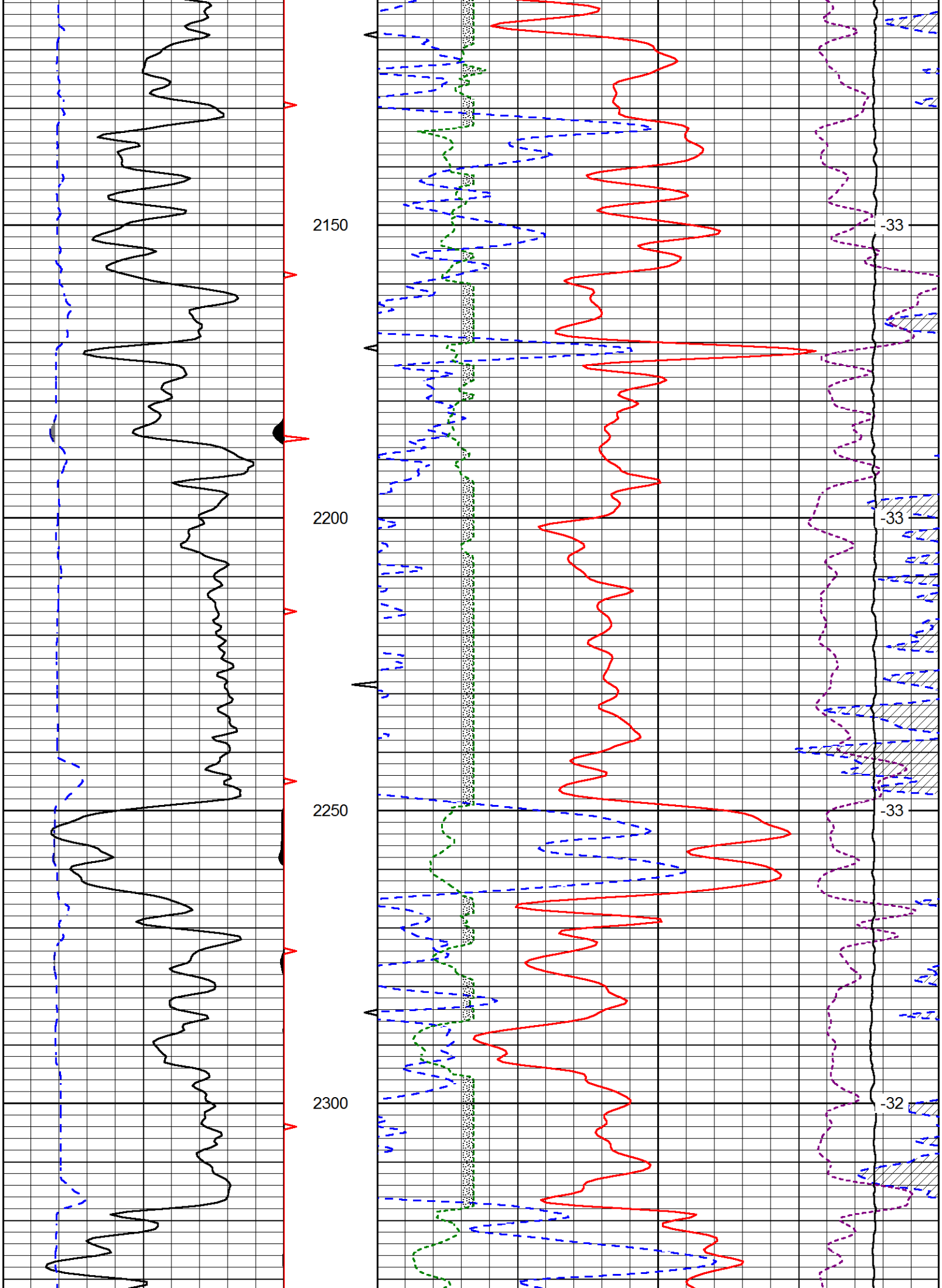
30	Compensated Density (pu)			-10
2	Bulk Density (g/cc)			3
15000	Line Tension (lb)			0
2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25
				LSPD (ft/min)

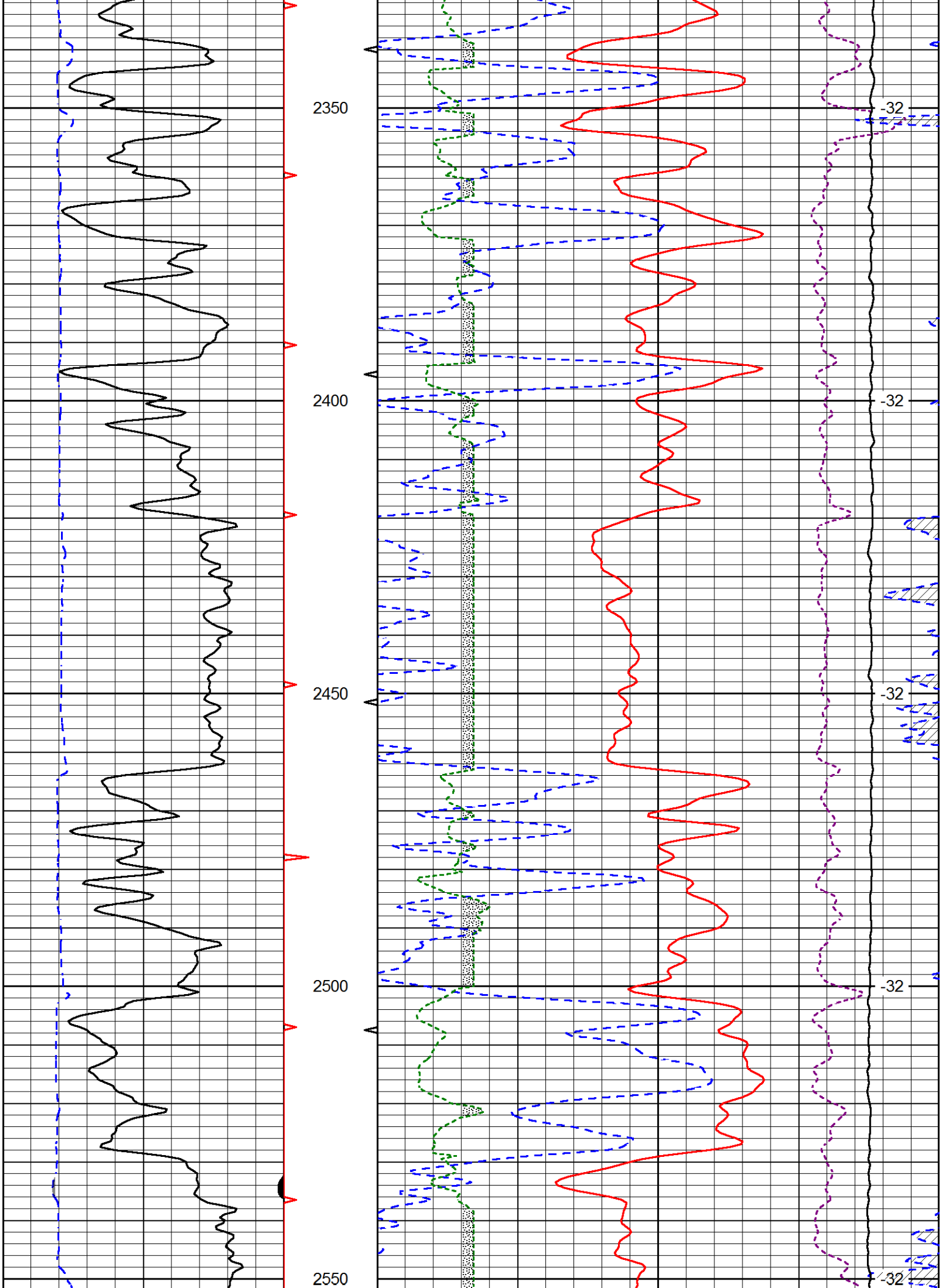
Database File	caroden_thelma_1hd.db
Dataset Pathname	DIL/castkml
Presentation Format	cndlspec
Dataset Creation	Wed May 18 00:04:48 2016
Charted by	Depth in Feet scaled 1:240

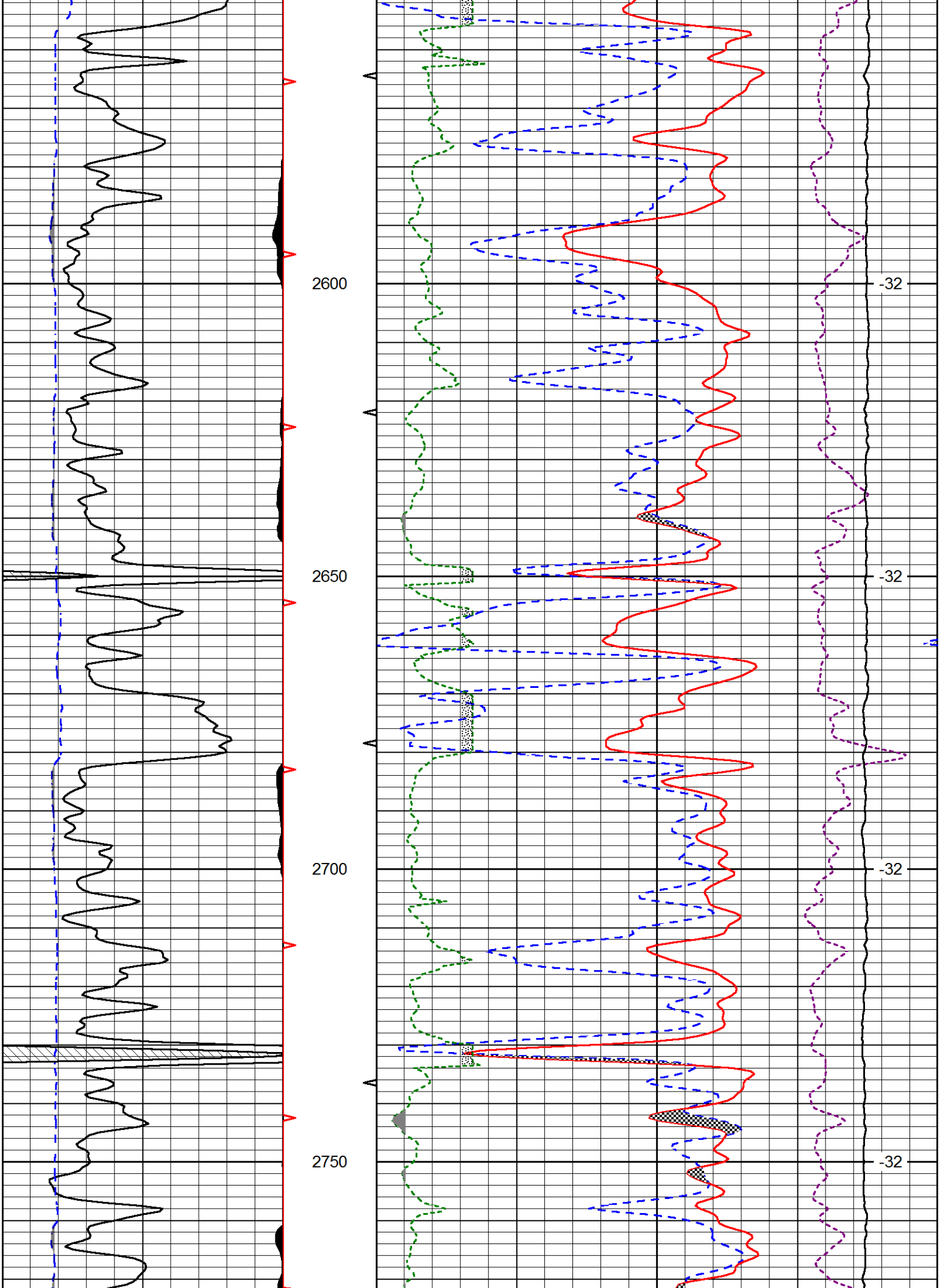
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

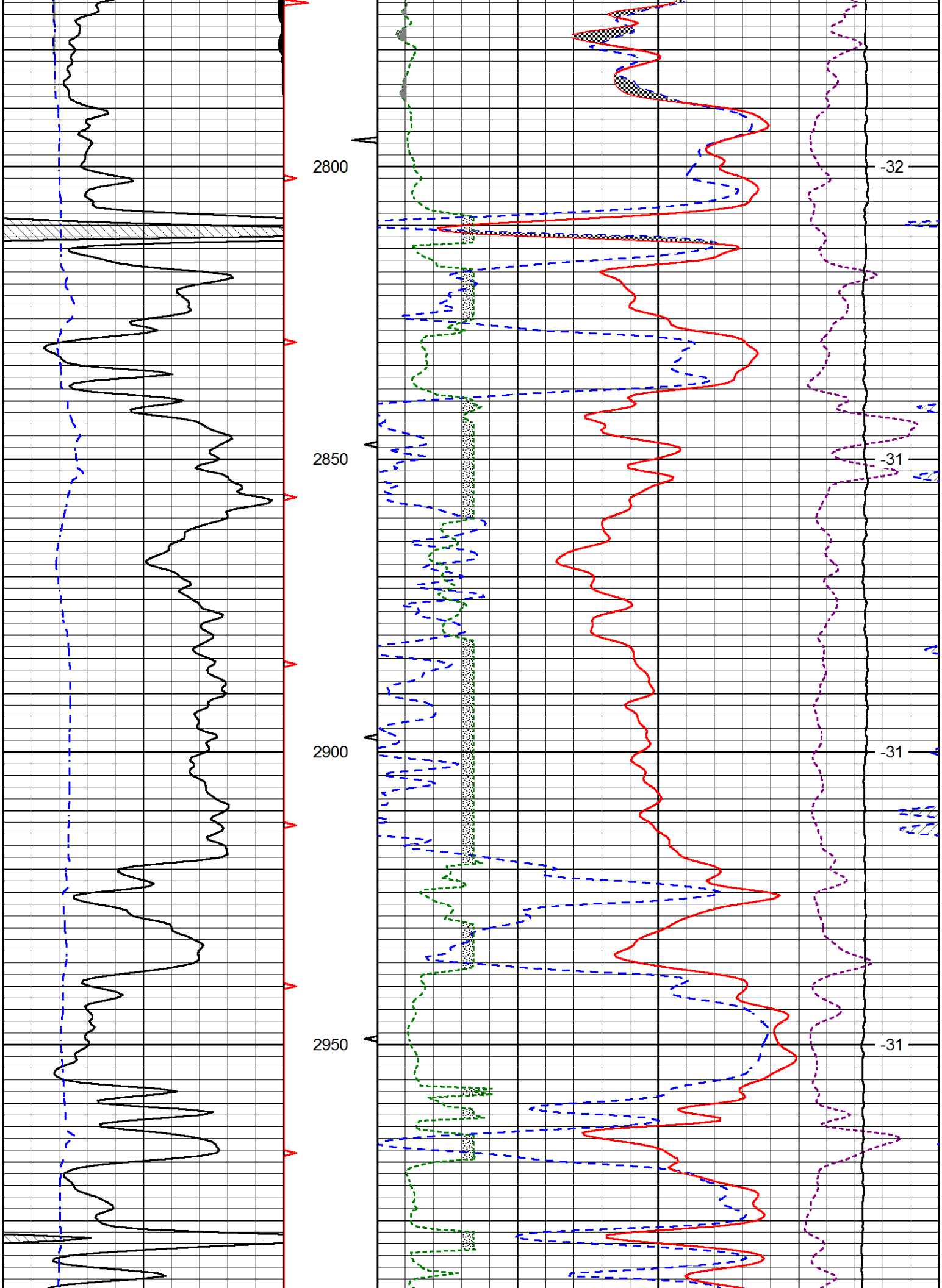
30	CNLS (pu)			-10
30	Compensated Density (2.71 ma) (pu)			-10
10000	Line Tension (lb)			0
2.625	DGA (g/cc)	3.425	-0.25 Correction (g/cc)	0.25
				LSPD (ft/min)

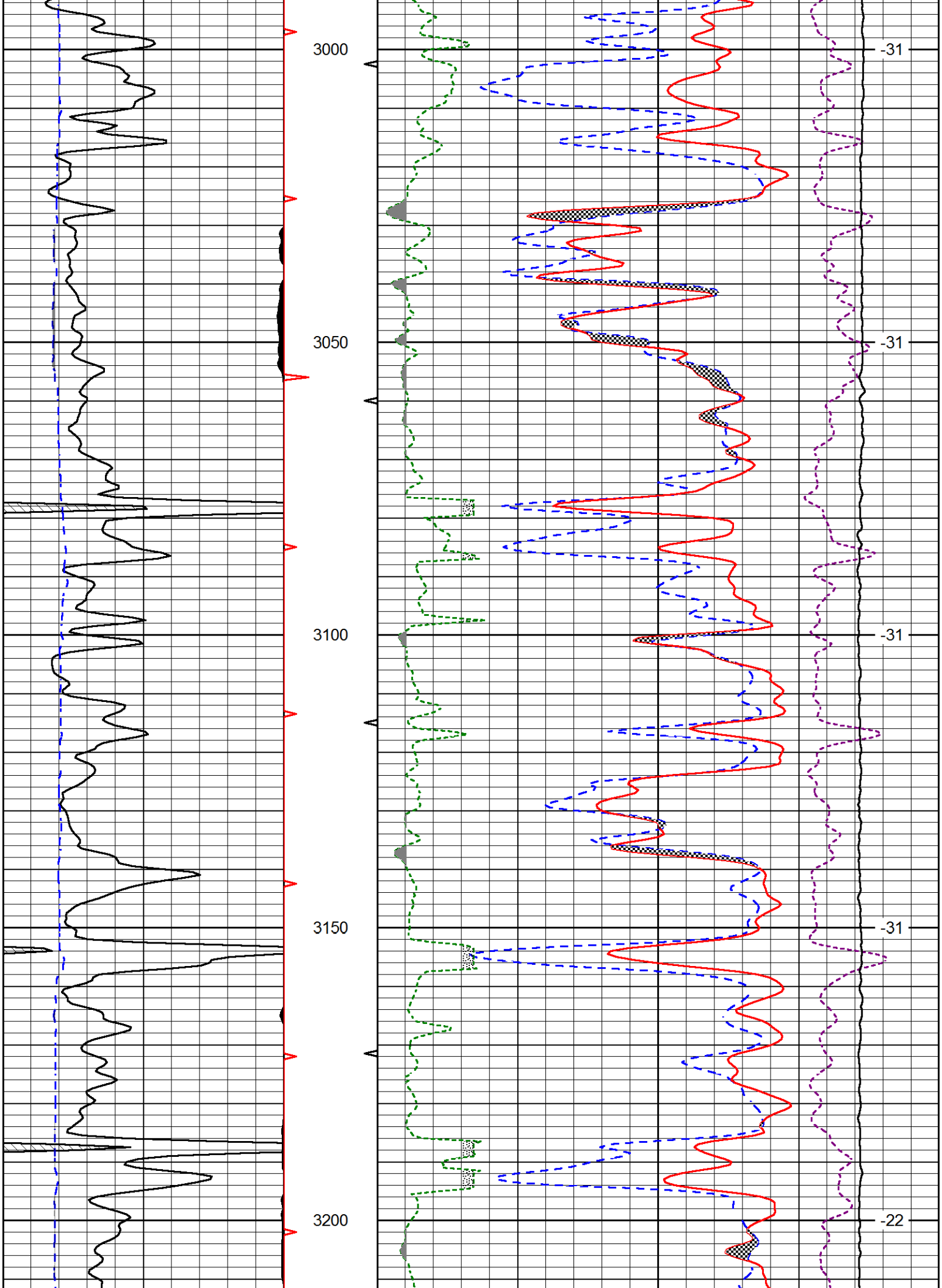


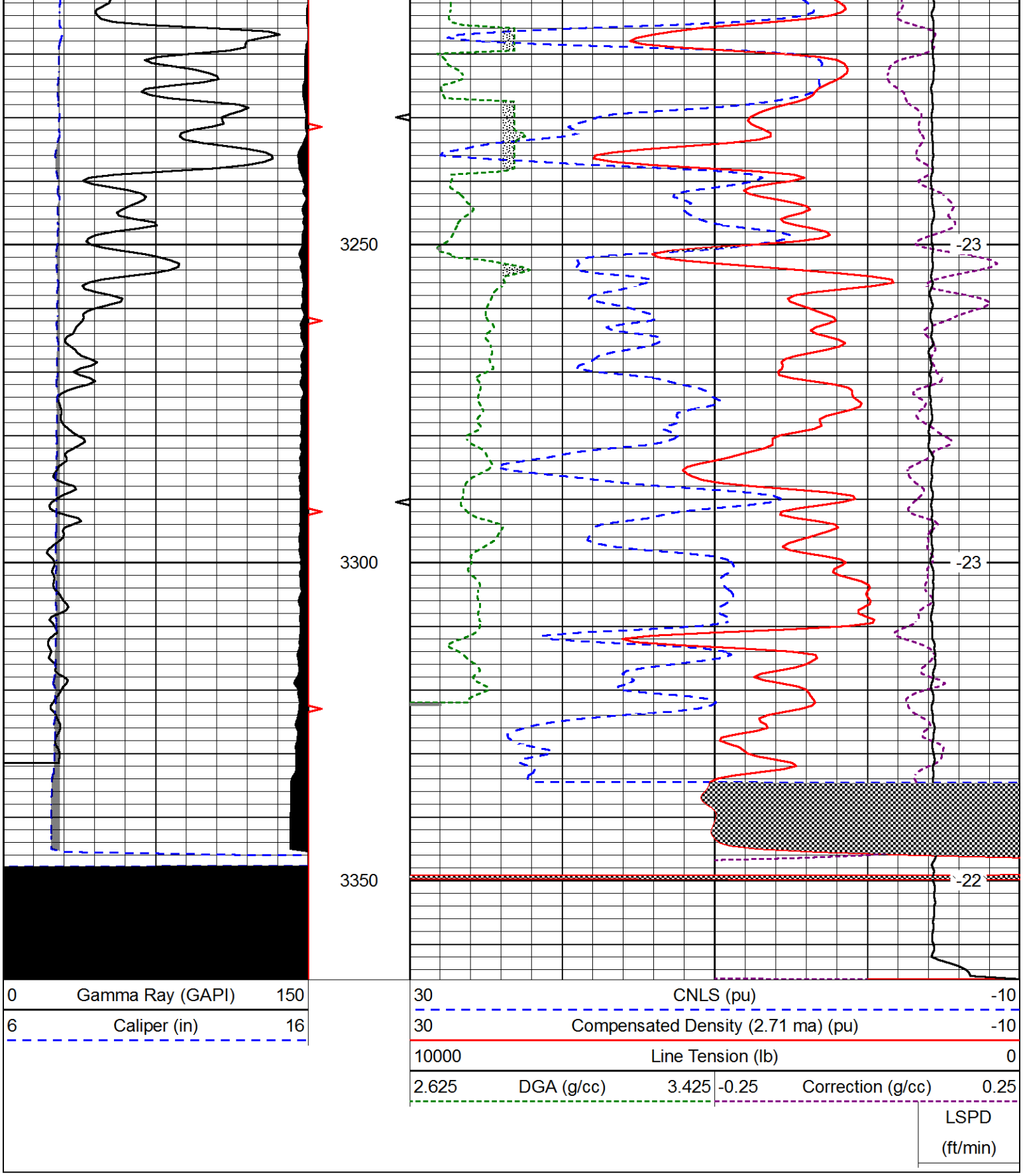

2150
2200
2250
2300
-33
-33
-33
-32


2350
2400
2450
2500
2550
-32
-32
-32
-32


2600
2650
2700
2750
-32
-32
-32


2800
2850
2900
2950
-32
-31
-31
-31


3000
3050
3100
3150
3200
-31
-31
-31
-22



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)