



Pioneer Energy Services

## Dual Compensated Porosity Log

API No. 15-007-23,981-00-00

Company **Indian Oil Company, Inc.**  
 Well **Helen Mae # 2**  
 Field **Stranathan**  
 County **Barber** State **Kansas**

Location **S/2 NE SE SE  
835' FSL & 330' FEL**

Sec: 10 Twp: 35S Rge: 12W

Other Services  
DIL

Permanent Datum Ground Level Elevation 1381  
 Log Measured From Kelly Bushing 11 Ft. Above Perm. Datum  
 Drilling Measured From Kelly Bushing

K.B. 1392  
 D.F. 1381  
 G.L. 1381

Date	1/30/2013
Run Number	One
Type Log	CNL / CDL
Depth Driller	5080
Depth Logger	5080
Bottom Logged Interval	5059
Top Logged Interval	4200
Type Fluid In Hole	Chemical
Salinity, PPM CL	4000
Density	9.3
Level	Full
Max. Rec. Temp. F	127
Operating Rig Time	2 1/2 Hours
Equipment -- Location	15 Hays
Recorded By	D Kerr
Witnessed By	Scott Alberg

Borehole Record			Casing Record			
Run No.	Bit From	To	Size	Wgt. 23#	From	To
One	12.25 00	747	8.625	23#	00	747
Two	7.875	747				

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

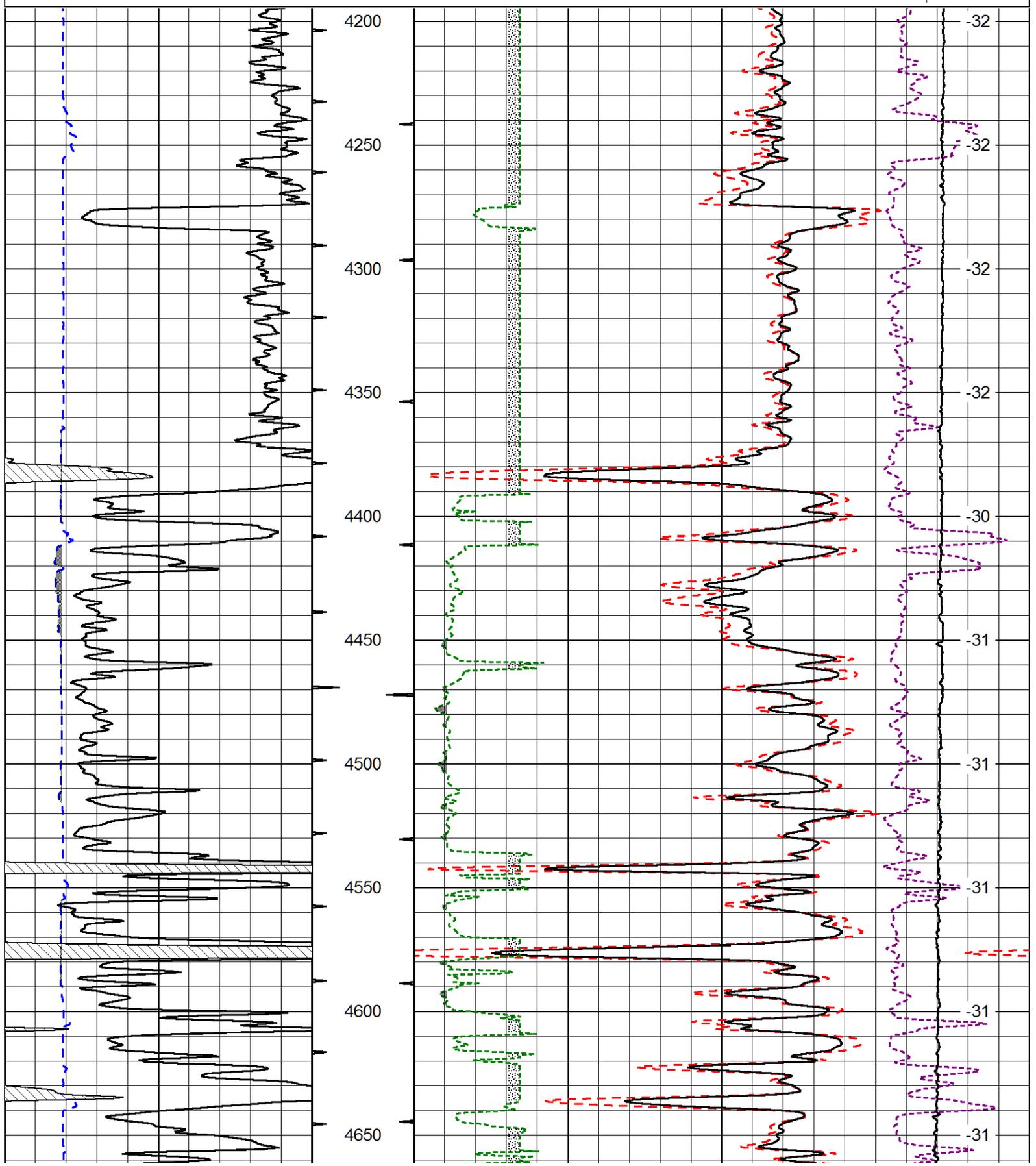
Thank you for using Log-Tech, Inc.  
 (785) 625-3858

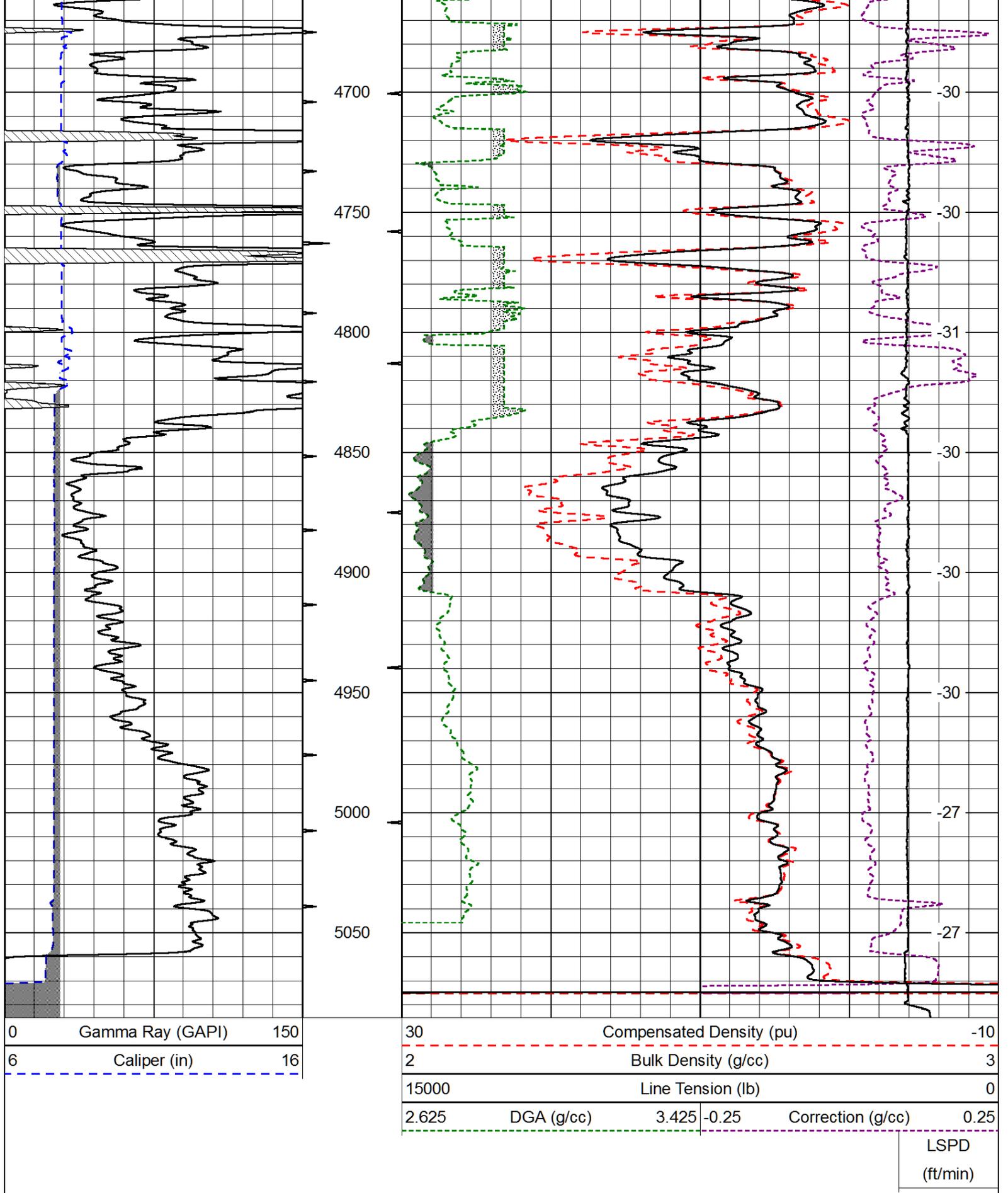
Hardtner KS, 2 /12 East to Roundup RD,  
 1/2 South, West Into

Database File: indian\_helenmae\_2hd.db  
 Dataset Pathname: DIL/indstk  
 Presentation Format: cdl  
 Dataset Creation: Thu Jan 31 00:22:03 2013  
 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)		



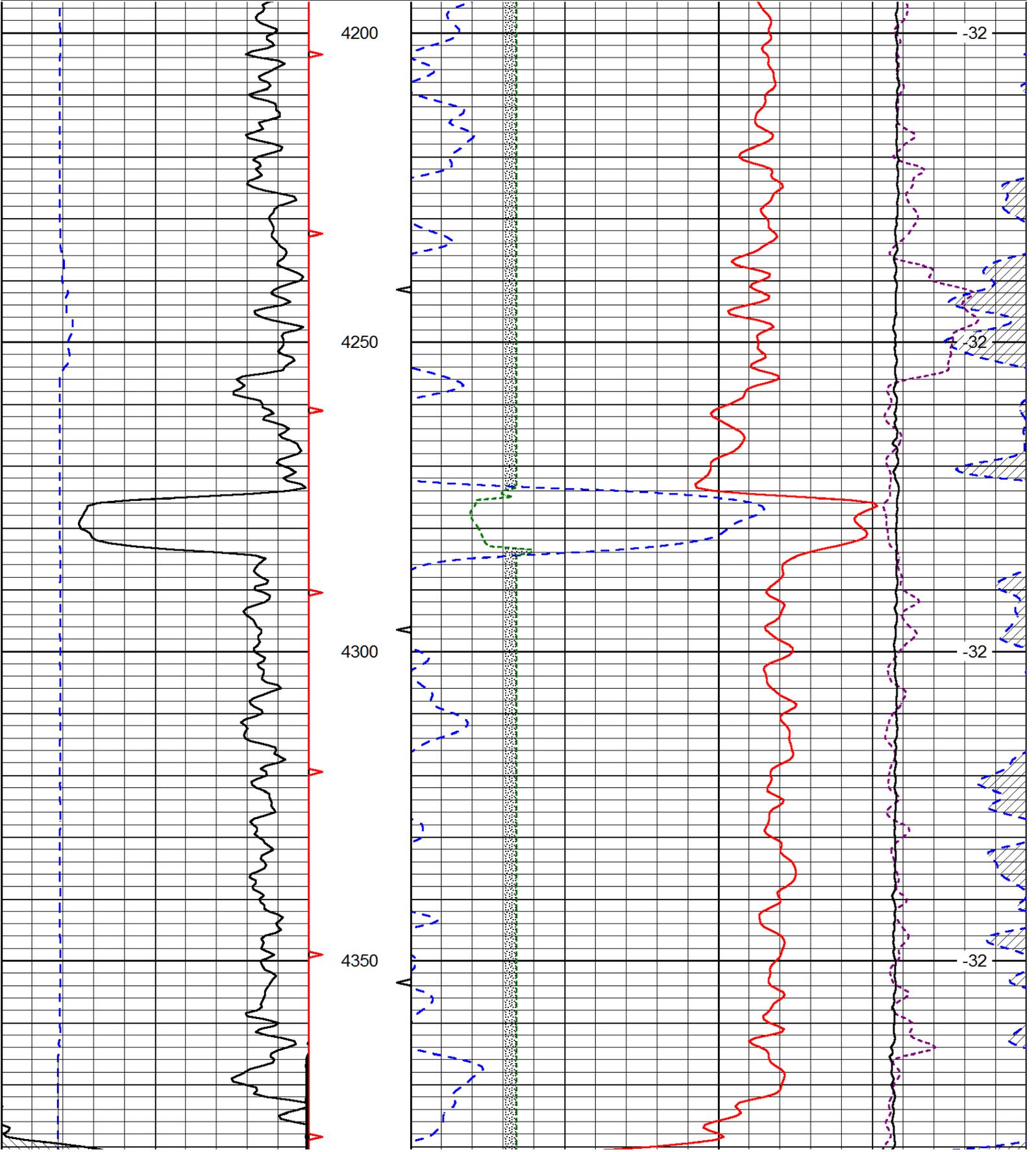


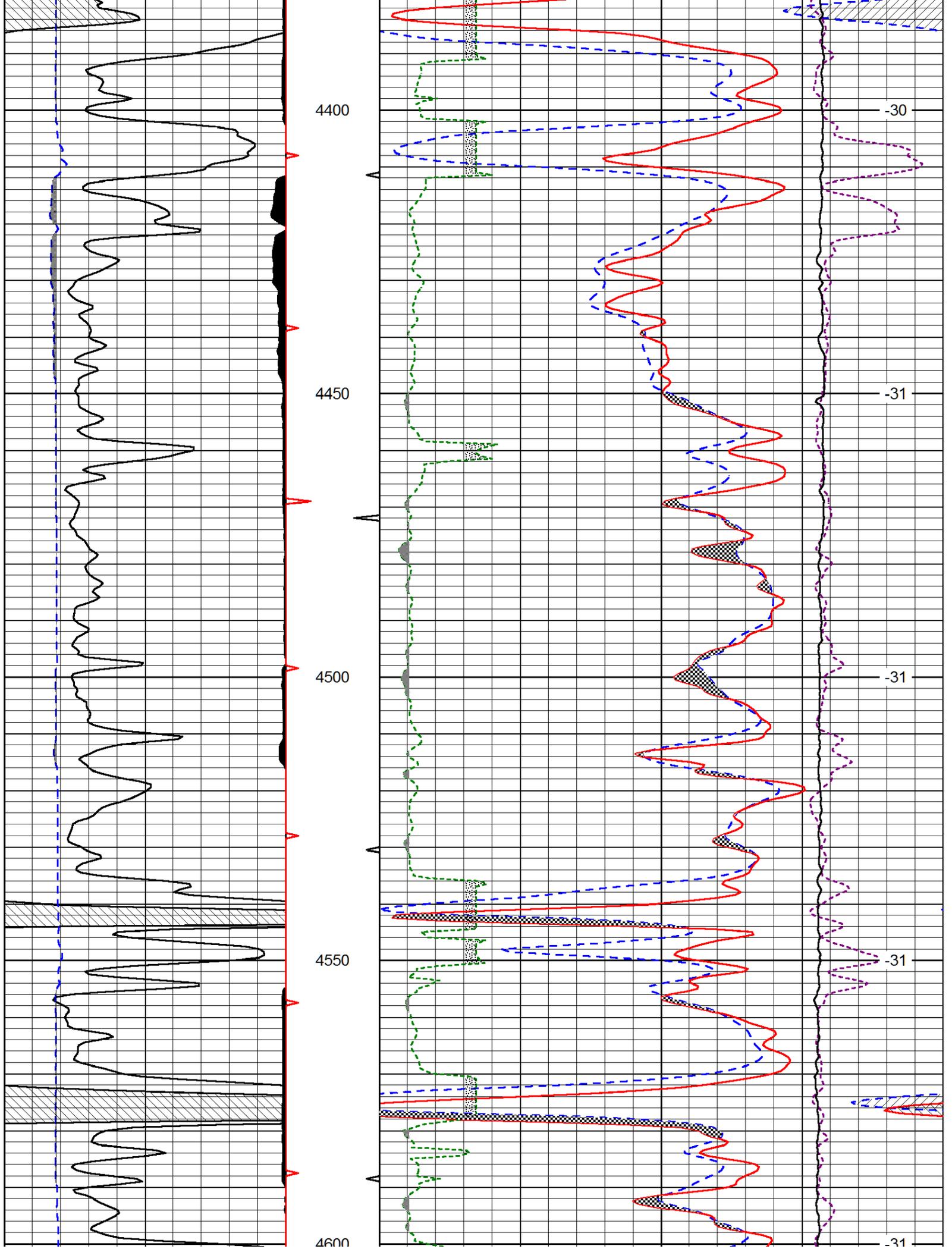
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 Dataset Pathname: DIL/indstk  
 Presentation Format: cndlspec  
 Dataset Creation: Thu Jan 31 00:22:03 2013

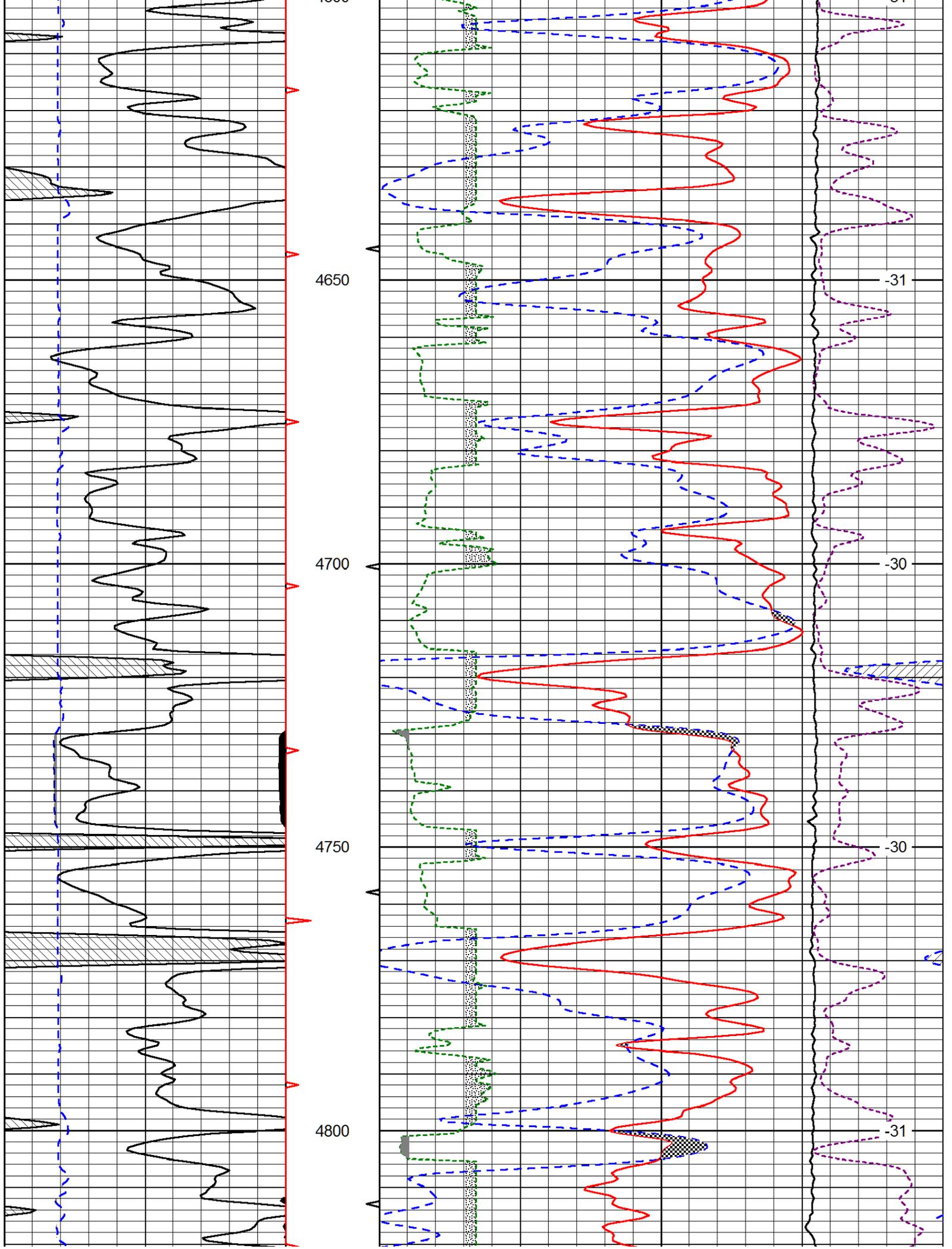
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6	Caliper (in)	16

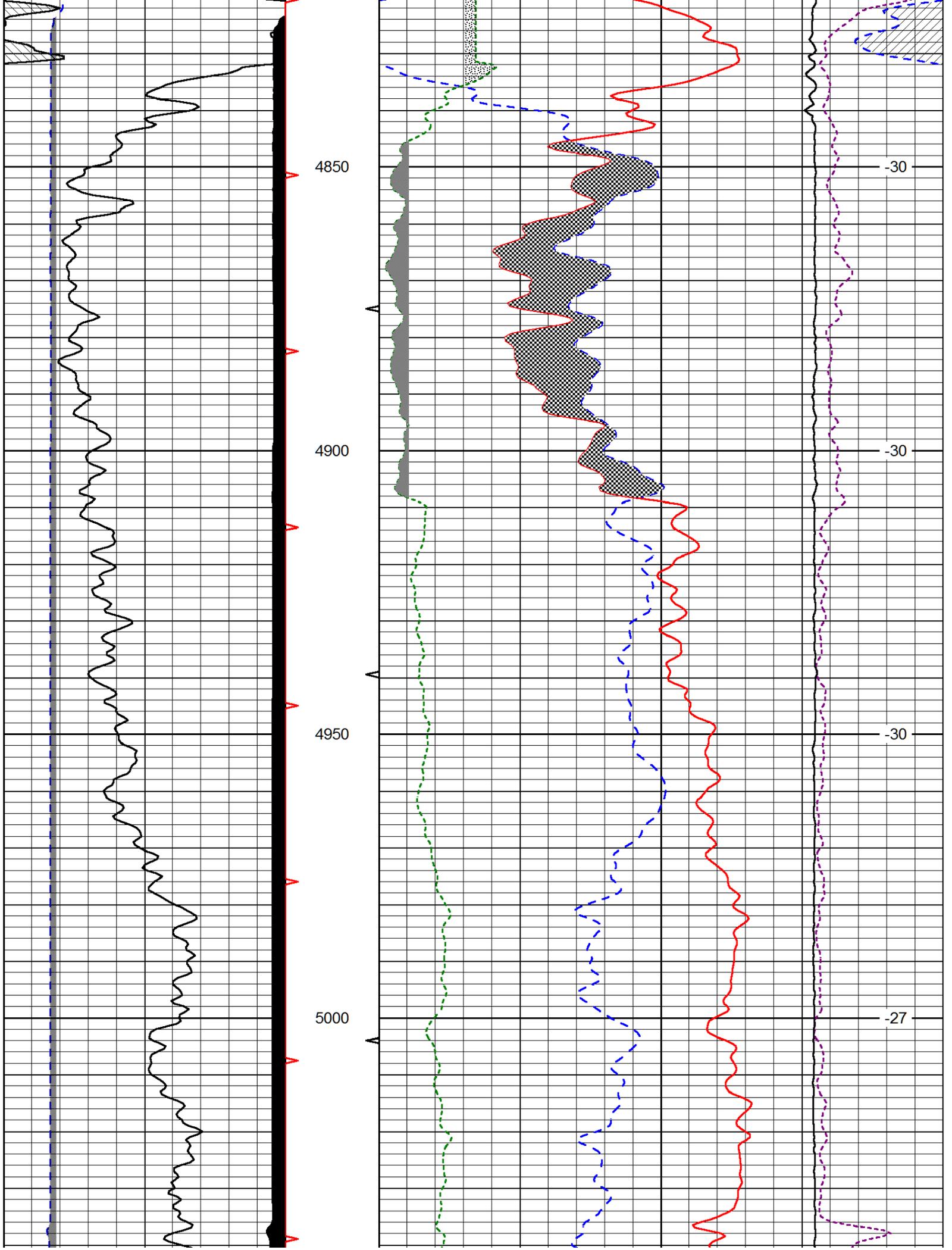
30	CNLS (pu)		-10
30	Compensated Density (2.71 ma) (pu)		-10
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25
10000	Line Tension (lb)		0

LSPD  
(ft/min)



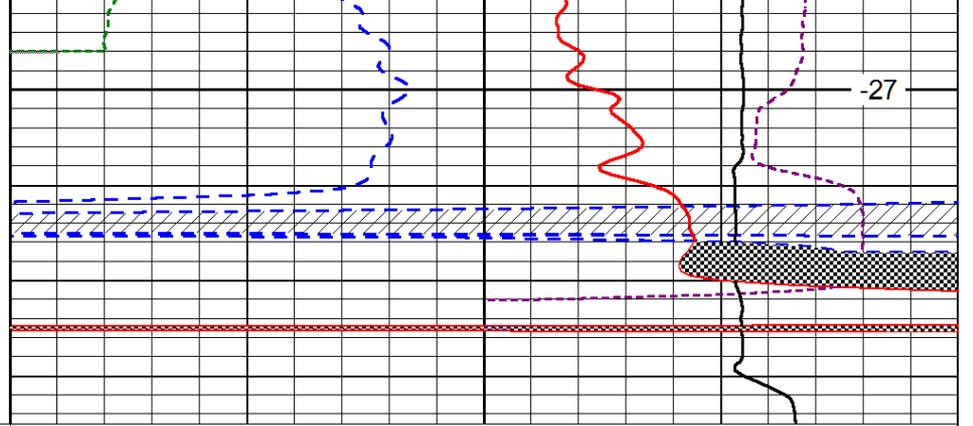








5050



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

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

LSPD (ft/min)
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