



Pioneer Energy Services

Dual Compensated Porosity Log

API No.	15-053-21304-00-00		
Company	American Warrior, Inc.		
Well	Grubb D #1-5		
Field	Stoltenberg		
County	Ellsworth		
Location	1698' FSL & 1644' FWL		
	Sec: 5	Twp: 16S	Rge: 10W
Other Services	DILMEL		
Permanent Datum	Ground Level	Elevation	1785
Log Measured From	Kelly Bushing	8	Ft. Above Perm. Datum
Drilling Measured From	Kelly Bushing		
Date	1/27/2014		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	3400		
Depth Logger	3403		
Bottom Logged Interval	3374		
Top Logged Interval	2700		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	4500		
Density	9.4		
Level	Full		
Max. Rec. Temp. F	112		
Operating Rig Time	3 Hours		
Equipment -- Location	91 Hays		
Recorded By	D. Schmidt		
Witnessed By	Jim Musgrove		

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	364	8.625	23#	00	364
Two	7.875	364	TD				

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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

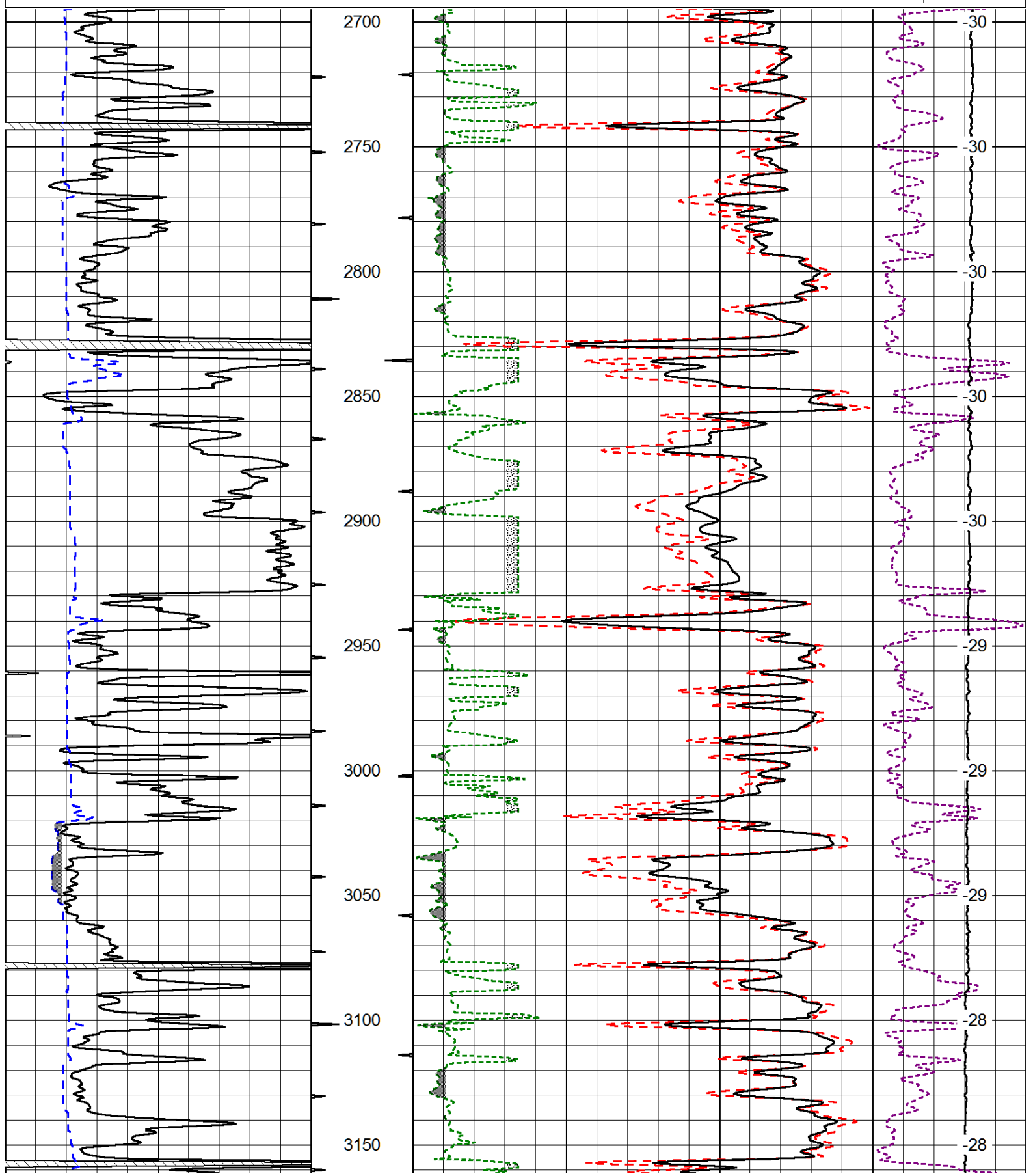
Wilson,
10 South, 1.3 East to TB,
North and West into

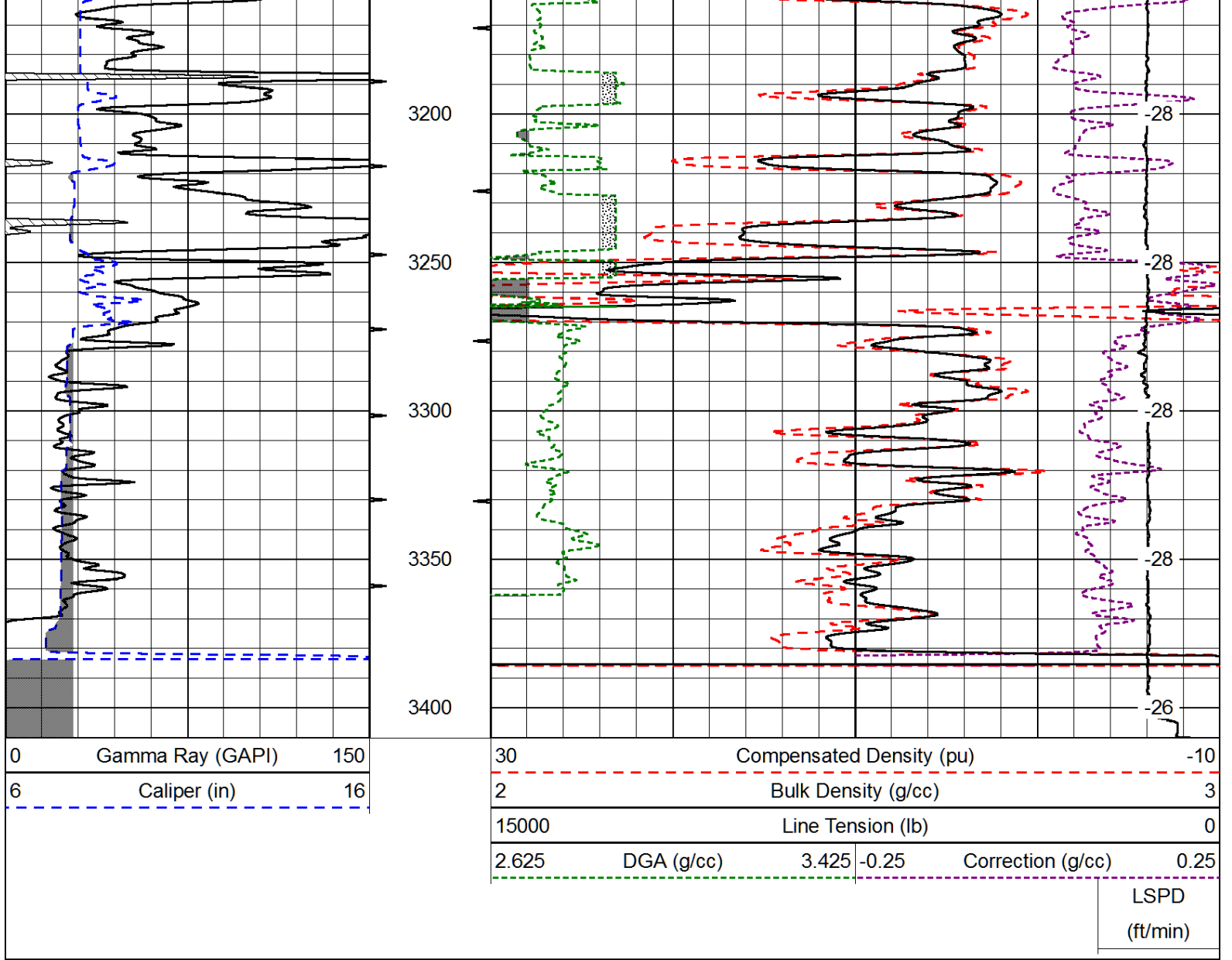
Database File: amwar_012714hd.db
 Dataset Pathname: dil/awstck
 Presentation Format: cdl
 Dataset Creation: Mon Jan 27 08:26:13 2014
 Charted by: Depth in Feet scaled 1:600

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

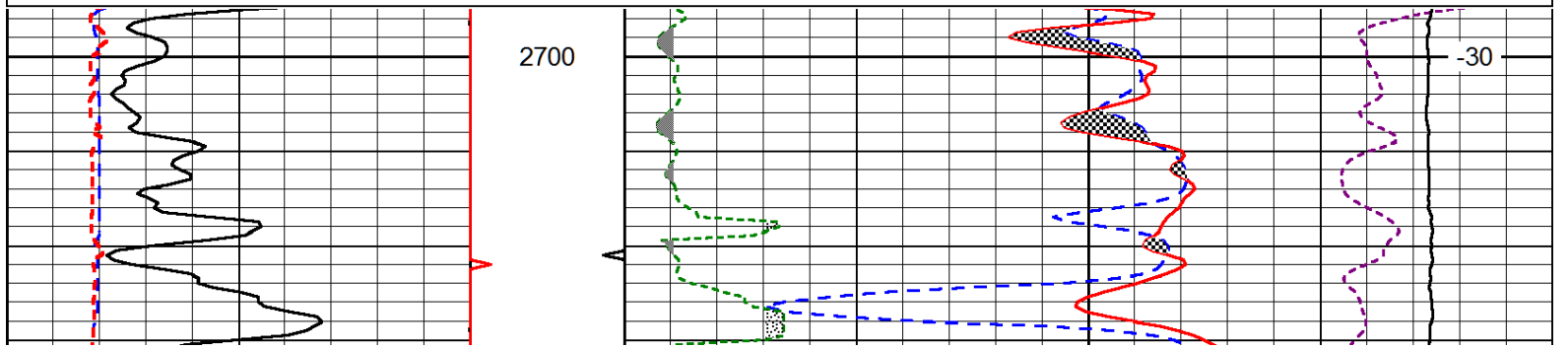
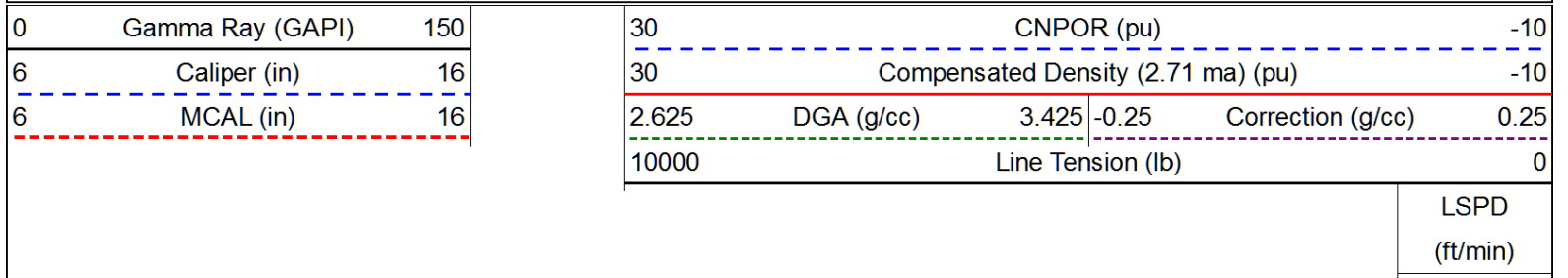
30	Compensated Density (pu)		-10
2	Bulk Density (g/cc)		3
15000	Line Tension (lb)		0
2.625	DGA (g/cc)	3.425	-0.25
		Correction (g/cc)	0.25

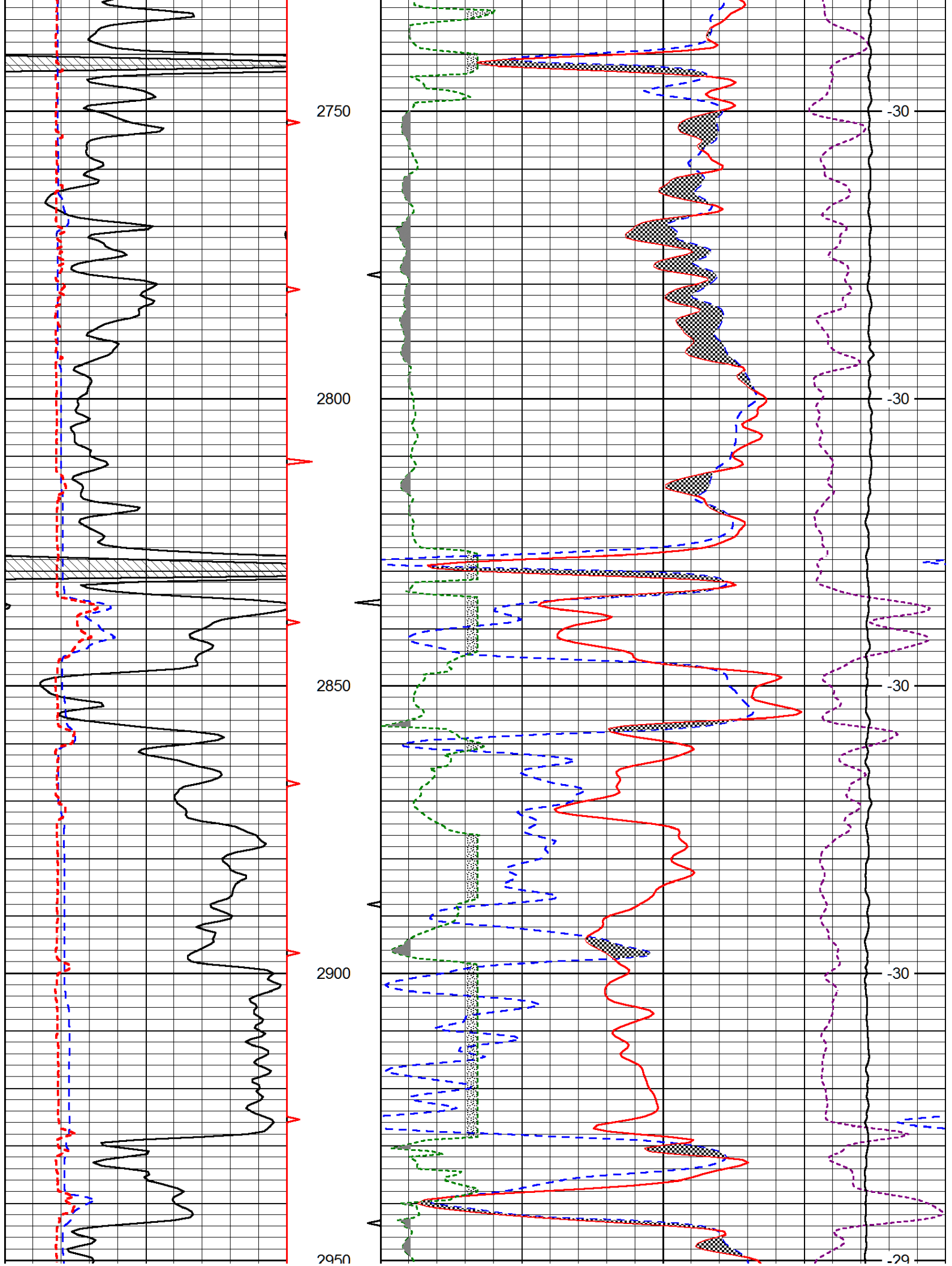
LSPD
(ft/min)

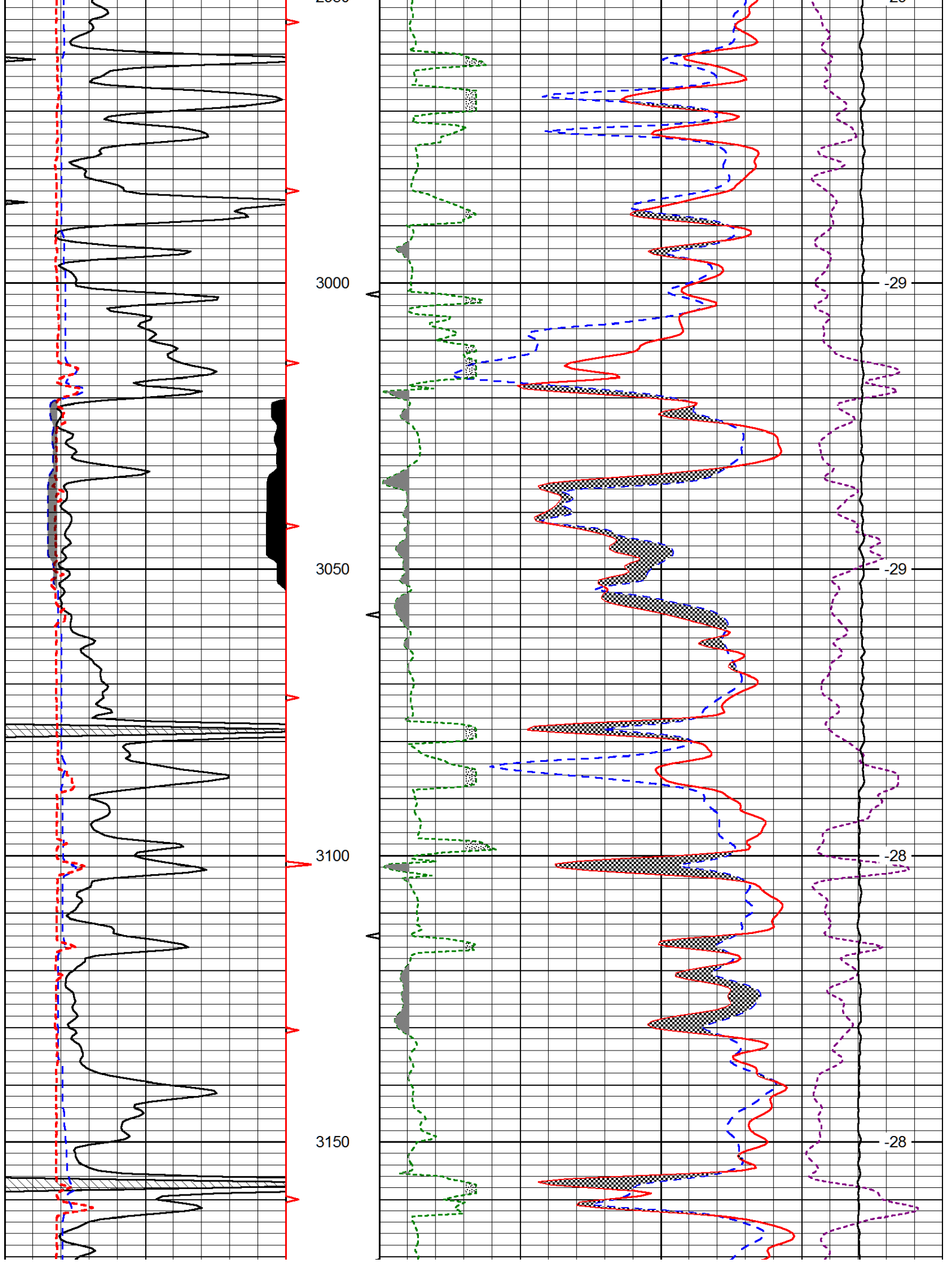


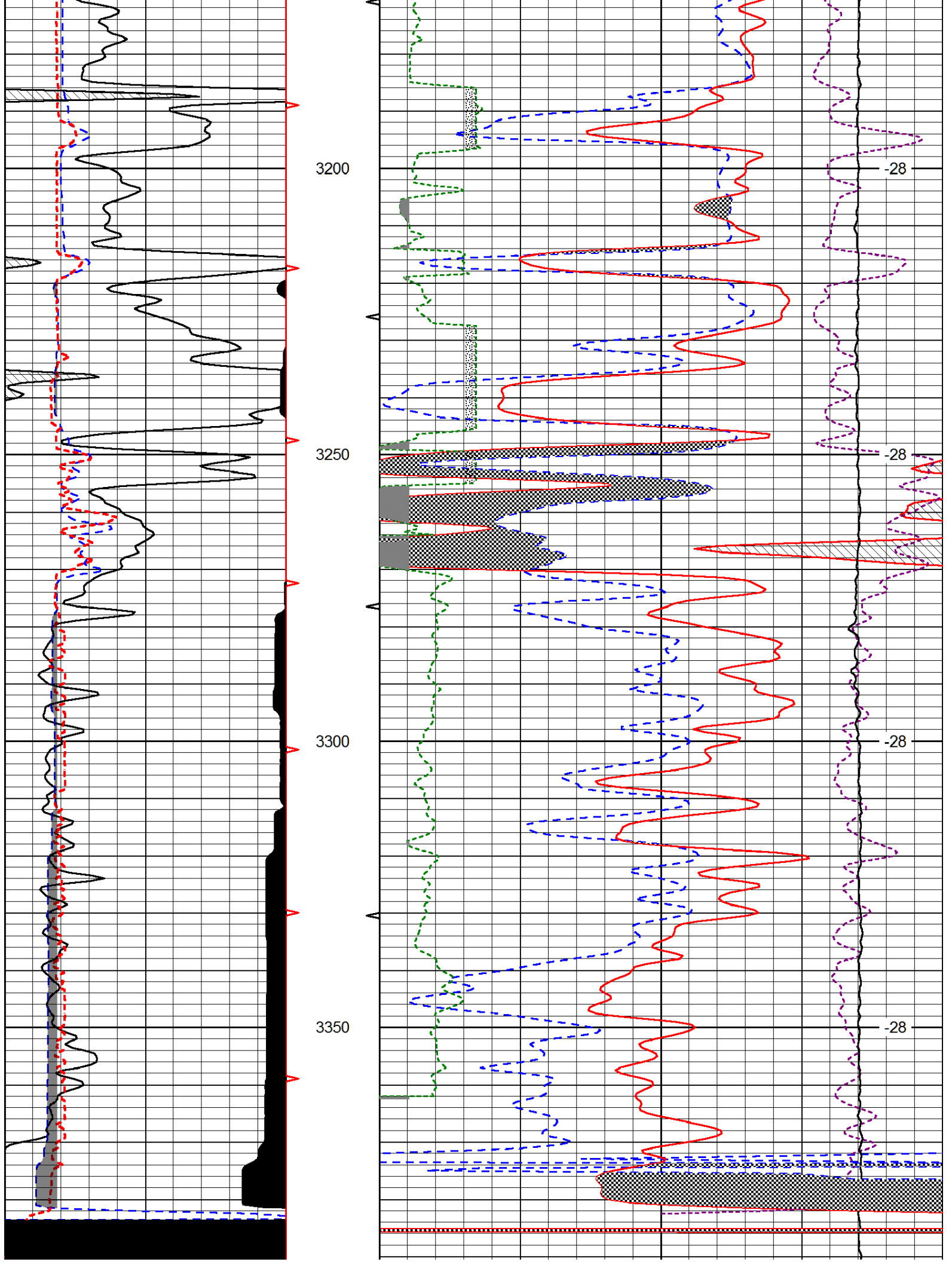


Database File: amwar_012714hd.db
 Dataset Pathname: dil/awstck
 Presentation Format: cndlspec
 Dataset Creation: Mon Jan 27 08:26:13 2014
 Charted by: Depth in Feet scaled 1:240

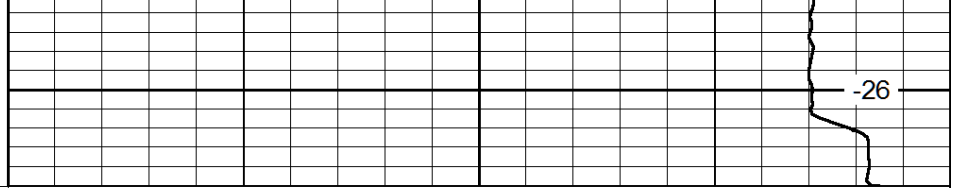








3400



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

30	CNPOR (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)