



Pioneer Energy Services

Dual Compensated Porosity Log

API No. 15-135-25,853-00-00

Company **AMERICAN WARRIOR, INC**
 Well **WIEDEMAN NO. 2-20**
 Field **HINNERGARDT**
 County **NESS** State **KANSAS**

Location **335' FSL & 1,940' FEL**

Sec: **20** Twp: **19S** Rge: **21W**

Other Services **DIL**

Permanent Datum **GROUND LEVEL** Elevation **2285**
 Log Measured From **KELLY BUSHING** **8** Ft. Above Perm. Datum
 Drilling Measured From **KELLY BUSHING**

K.B. 2293
 D.F. G.L. 2285

Date	4/13/2015
Run Number	ONE
Type Log	CNL / CDL
Depth Driller	4428
Depth Logger	4426
Bottom Logged Interval	4405
Top Logged Interval	3450
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	7100
Density	9.3
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	2 1/2 HOURS
Equipment -- Location	108 Hays
Recorded By	J. LONG
Witnessed By	MARC DOWNING

Borehole Record		Casing Record				
Run No	Bit From	To	Size	Wgt. 23#	From	To
One	12.25	00	8.625	23#	00	223
Two	7.875	223				

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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

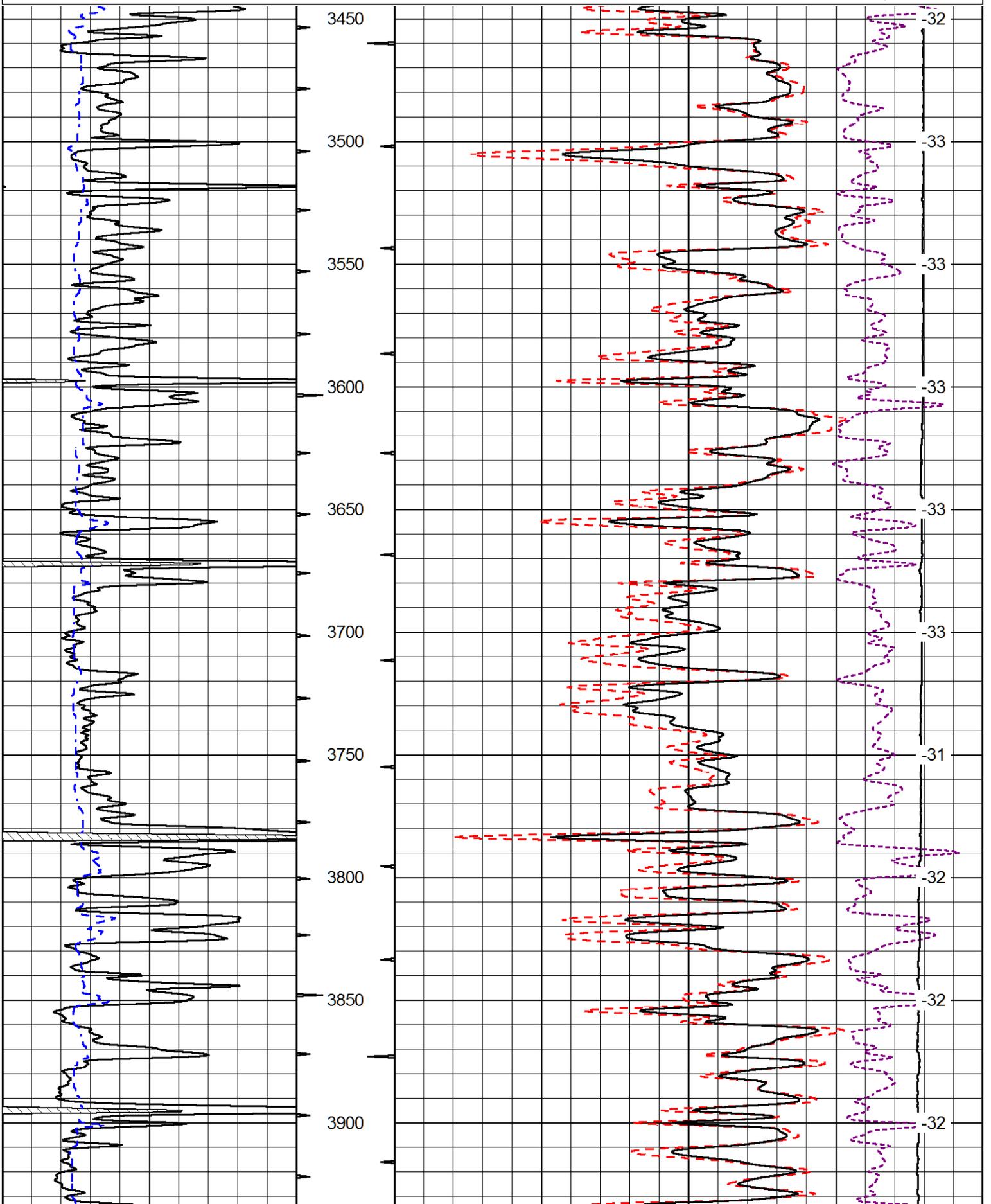
Thank you for using Pioneer Energy Services
 785.625.3858

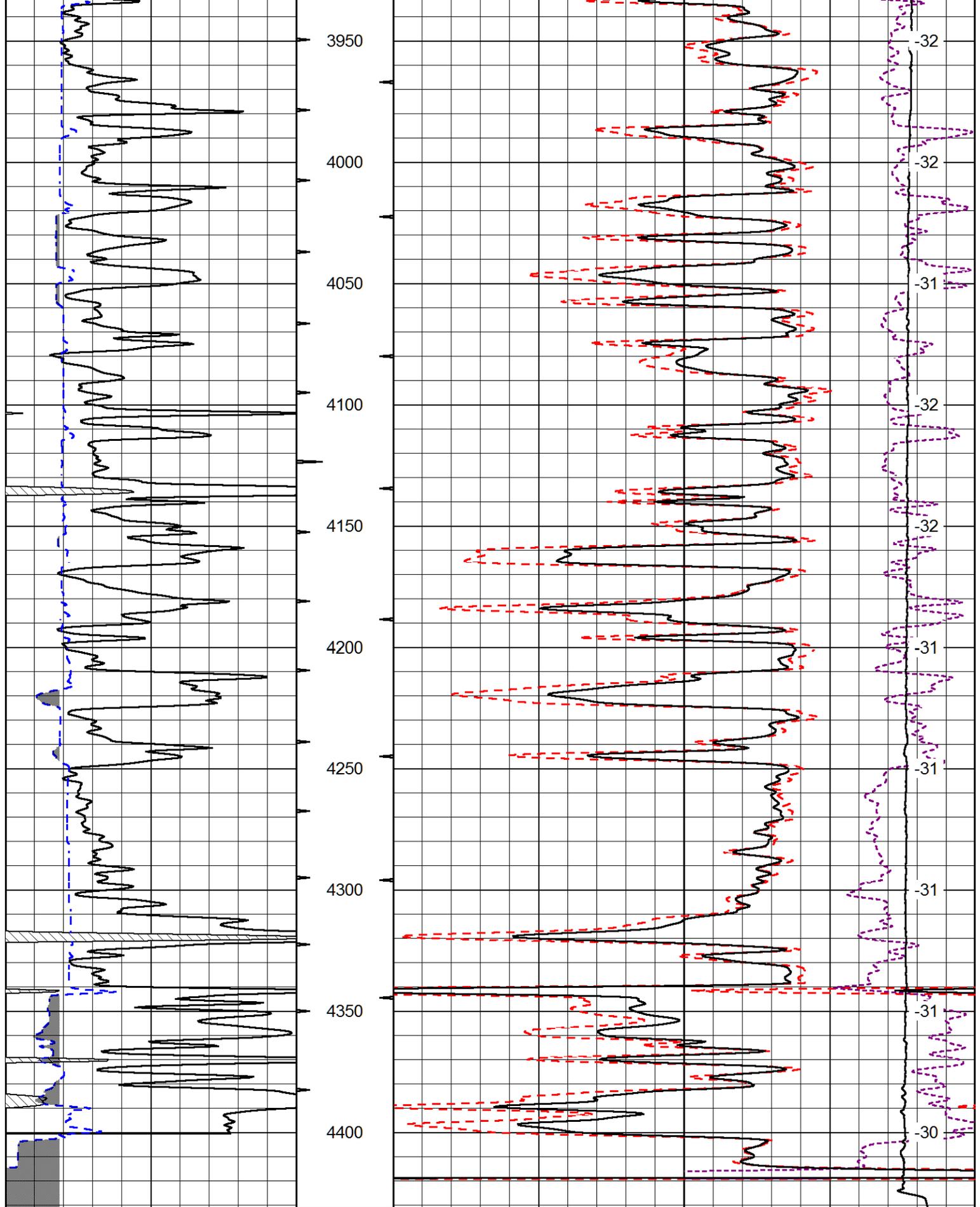
ALEXANDER, WEST TO GG ROAD, SOUTH TO 100 ROAD, 1 WEST TO FF ROAD,
 2 SOUTH TO 80 ROAD, 1/4 WEST, NORTH INTO

Database File amwarrior_wiedeman_2-20hd.db
 Dataset Pathname dil/awstck
 Presentation Format cdl
 Dataset Creation Mon Apr 13 02:23:55 2015
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
	-0.25	0.25
	Correction	
		LSPD





0	Gamma Ray	150
6	Caliper (GAPI)	16

30	Compensated Density	-10
2	Bulk Density	3
15000	Line Tension	0
-0.25	Correction	0.25

Database File amwarrior_wiedeman_2-20hd.db
Dataset Pathname dil/awstck
Presentation Format cndlspec
Dataset Creation Mon Apr 13 02:23:55 2015
Charted by Depth in Feet scaled 1:240

0	Gamma Ray	150
6	Caliper (GAPI)	16

30	CNLS	-10
30	Compensated Density (2.71 ma)	-10
10000	Line Tension	0
-0.25	Correction	0.25
LSPD		

