



Pioneer Energy Services

## Dual Compensated Porosity Log

15-135-25,722-00-00

API No.

Company **American Warrior, Inc.**  
 Well **TNA #1-11 Unit**  
 Field **Wildcat**  
 County **Ness** State **Kansas**

Location **2240' FNL & 2460' FWL**  
 Sec: **11** Twp: **18S** Rge: **22W**

Permanent Datum **Ground Level** Elevation **2196**  
 Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Other Services  
**DIL**  
 Elevation  
 K.B. **2204**  
 D.F. **2196**  
 G.L.

Date	1/22/2014
Run Number	One
Type Log	CNL / CDL
Depth Driller	4410
Depth Logger	4412
Bottom Logged Interval	4391
Top Logged Interval	3600
Type Fluid In Hole	Chemical
Salinity, PPM CL	5.500
Density	9.2
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	2 Hours
Equipment -- Location	17 Hays
Recorded By	C. Desaire
Witnessed By	Jason Alm

Borehole Record				Casing Record			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	221	8.625	24#	00	221
2	7.875	221	4410				

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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

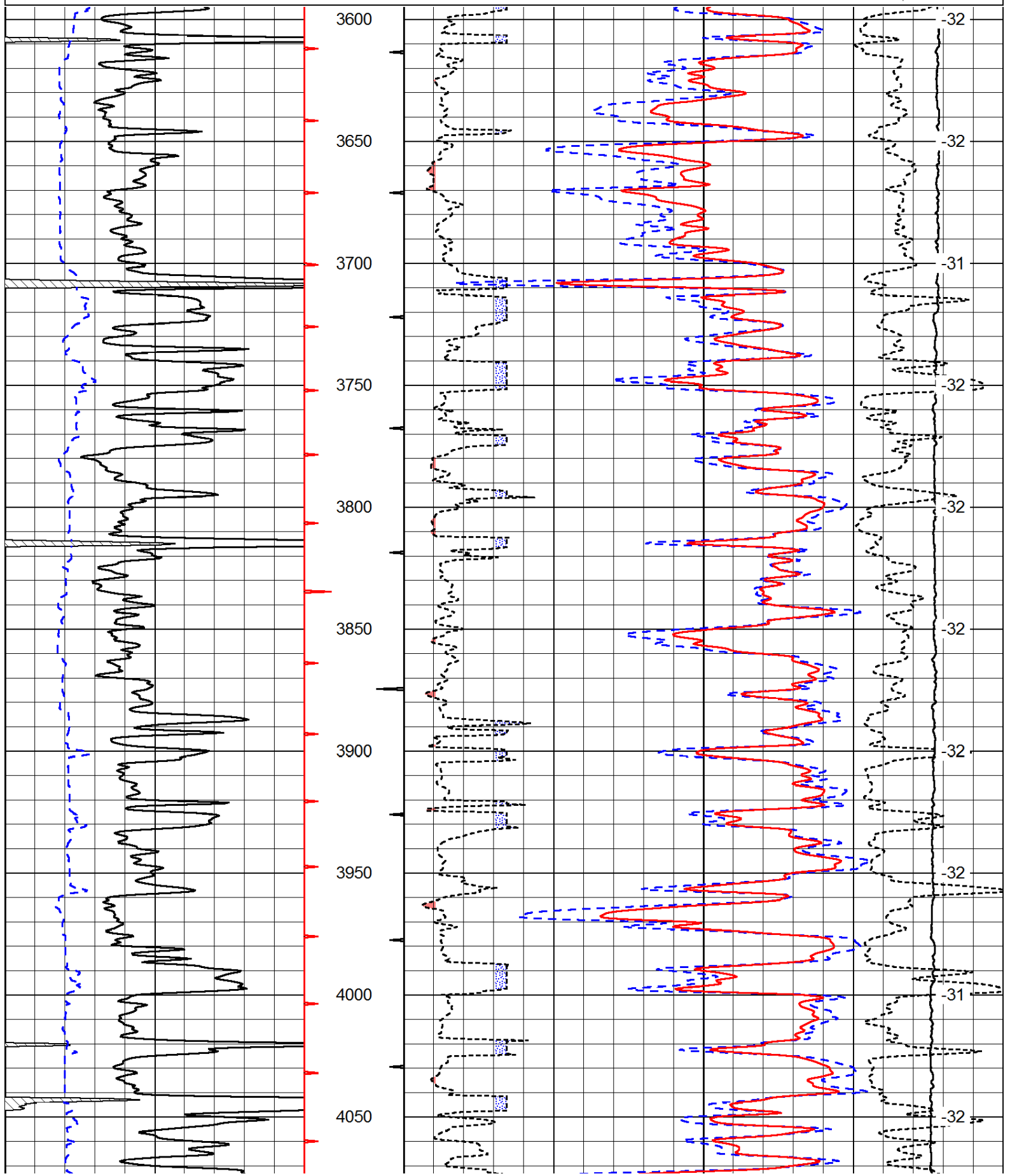
Thank you for using Pioneer Energy Services  
[www.pioneerenergy.com](http://www.pioneerenergy.com)  
 785 625 3858

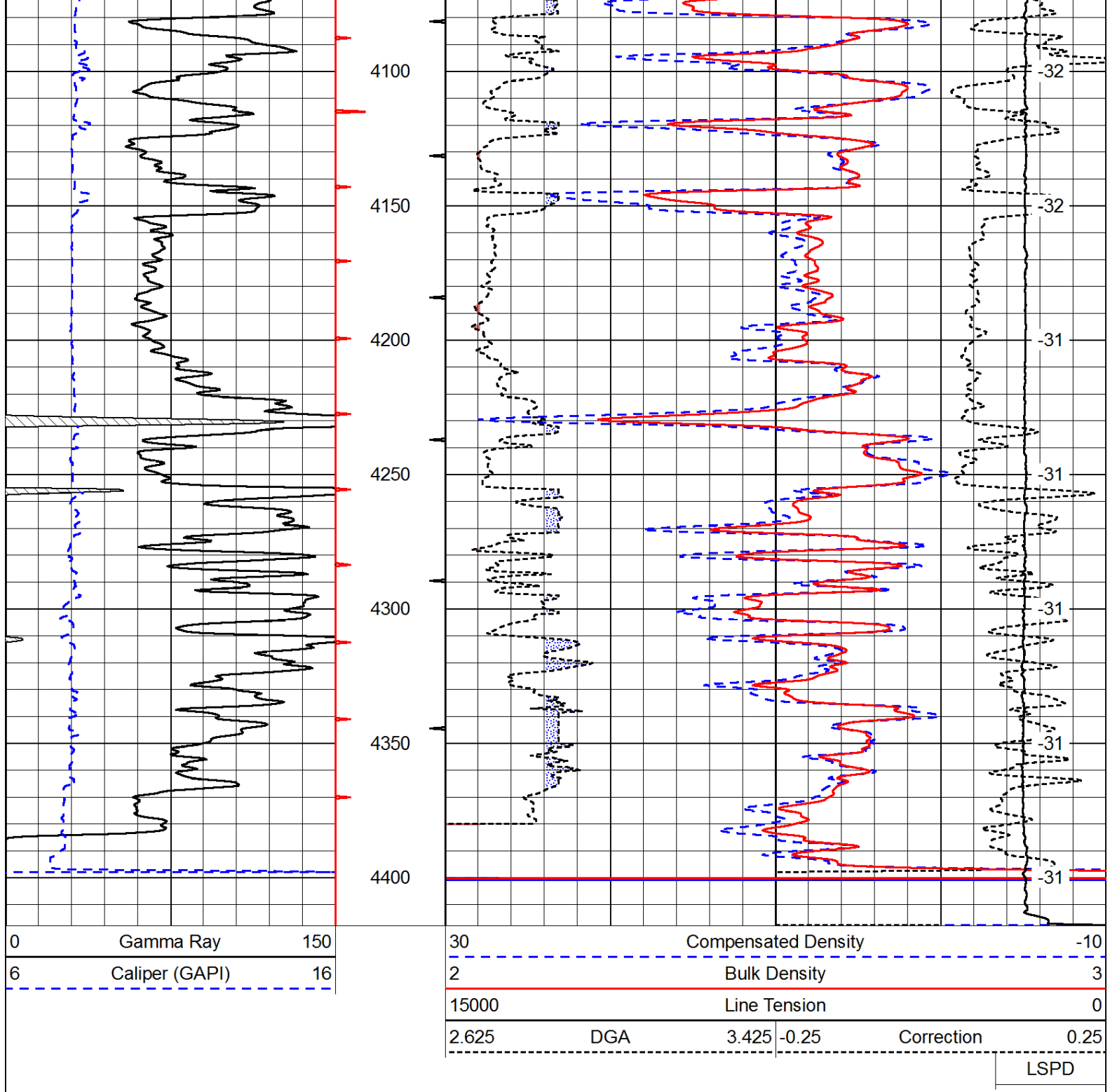
Bazine KS, W edge,  
 4 N, 1 1/2 W, S Into

Database File: c:\warrior\data\amwar\_tna #1-11 unit\awhd.db  
 Dataset Pathname: dil/awstk  
 Presentation Format: cdl  
 Dataset Creation: Thu Jan 23 00:49:45 2014  
 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
2.625	DGA	3.425	-0.25
Correction			0.25
LSPD			





Database File: c:\warrior\data\amwar\_tna #1-11 unit\awhd.db  
 Dataset Pathname: dil/awstk  
 Presentation Format: cndlspec  
 Dataset Creation: Thu Jan 23 00:49:45 2014  
 Charted by: Depth in Feet scaled 1:240

