



Pioneer Energy Services

## Dual Compensated Porosity Log

15-135-25,602-00-00

API No.

Company **American Warrior, Inc.**  
 Well **Schaben #5-24**  
 Field **Schaben North**  
 County **Ness** State **Kansas**

Location **460' FNL & 260' FEL**  
 Sec: **24** Twp: **19S** Rge: **22W**

Permanent Datum **Ground Level** Elevation **2215**  
 Log Measured From **Kelly Bushing** **6** Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Other Services  
**DIL**  
 Elevation  
 K.B. 2221  
 D.F. 2215  
 G.L. 2215

Date	6/29/2013
Run Number	Two
Type Log	CNL / CDL
Depth Driller	4351
Depth Logger	4346
Bottom Logged Interval	4344
Top Logged Interval	3600
Type Fluid In Hole	Chemical
Salinity, PPM CL	8200
Density	9.4
Level	Full
Max. Rec. Temp. F	123
Operating Rig Time	3 1/2 Hours
Equipment -- Location	108 Hays
Recorded By	J. Long
Witnessed By	Jason Alm

Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	223	8.625	24#	00	223
2	7.875	223	4351				

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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, 4 South on Austin Road, 200' West, South Into

Database File: c:\warrior\data\amwar\_schaben #5-24\amwarrior\_schaben\_5-24hd.db  
 Dataset Pathname: dil\awstck  
 Presentation Format: cdl  
 Dataset Creation: Sat Jun 29 21:09:17 2013  
 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			











