



Pioneer Energy Services

## Dual Compensated Porosity Log

API No.	15-135-25566-00-00		
Company	American Warrior, Inc.		
Well	Rothe #3-30		
Field	Unknown		
County	Ness		
Location	1150' FNL & 2000' FWL		
State	Kansas		
Sec:	30	Twp:	19 S Rge: 24 W
Permanent Datum	Ground Level	Elevation	2334
Log Measured From	Kelly Bushing	11 Ft. Above Perm. Datum	
Drilling Measured From	Kelly Bushing		
Date	5/1/2013		
Run Number	One		
Type Log	CNL / CDL		
Depth Driller	4500		
Depth Logger	4501		
Bottom Logged Interval	4500		
Top Logged Interval	3700		
Type Fluid In Hole	Chemical		
Salinity, PPM CL	6300		
Density	9.4		
Level	Full		
Max. Rec. Temp. F	4 Hours		
Operating Rig Time	4 Hours		
Equipment -- Location	91	Hays	
Recorded By	Y. Ruiz		
Witnessed By	Kevin Timson		

Other Services	Elevation
DIL	K.B. 2345
MEL	D.F. 2334
	G.L. 2334

Borehole Record	Casing Record
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Run No.	Bit	From	To	Size	Wgt.	From	To
1	12.25	00	220	8.625	24#	00	220
2	7.875	220	4500				

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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  
 Ness City,  
 7 South to 60 Rd, 7 West to L Rd,  
 1 1/2 North, 1/4 East,  
 North into

Database File: c:\warrior\data\amwar\_rothe #3-30\american warrior\_050113hd.db  
 Dataset Pathname: DIL/awstk  
 Presentation Format: cdl  
 Dataset Creation: Wed May 01 03:48:40 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			











