



Computer Processed Interpretation

Pioneer Energy Services

API No.		Company American Warrior, Inc.			
15-135-25609-00-00		Well Schniepp # 4-31 NE			
		Field DeWald North			
		County Ness	State	Kansas	
		Location 1100' FNL & 1275' FEL			
Sec: 31		Twp: 18 S	Rge: 21 W	Other Services DIL/CNL/CDL	
Permanent Datum		Ground Level	Elevation 2121		Elevation K.B. 2127 D.F. 2121 G.L. 2121
Log Measured From		Kelly Bushing	6 Ft. Above Perm. Datum		
Drilling Measured From		Kelly Bushing			
Date Recorded	9/3/2013				
Depth Logger	4240				
Curve Definitions					
SW	Water Saturation				
SXO	Water Saturation In The Flushed Zone				
VCL	Volume Of Clay				
PHIE	Density - Neutron Crossplot Shale Corrected				
BWV	Bulk Volume Water				
BWMSXO	Bulk Volume Water In Flushed Zone				
DCAL	Caliper				
SPC	SP Corrected For Baseline				
DGA	Apparent Grain Density				
Payflag	If: PHIE> 2 %, VCL< 40 %, SPC> -10 , SW< 50 % & DCAL< 11				
Recorded By	Y. Ruiz				
Witnessed By	Jason Alm				
Analysis By	Dale Legleiter				

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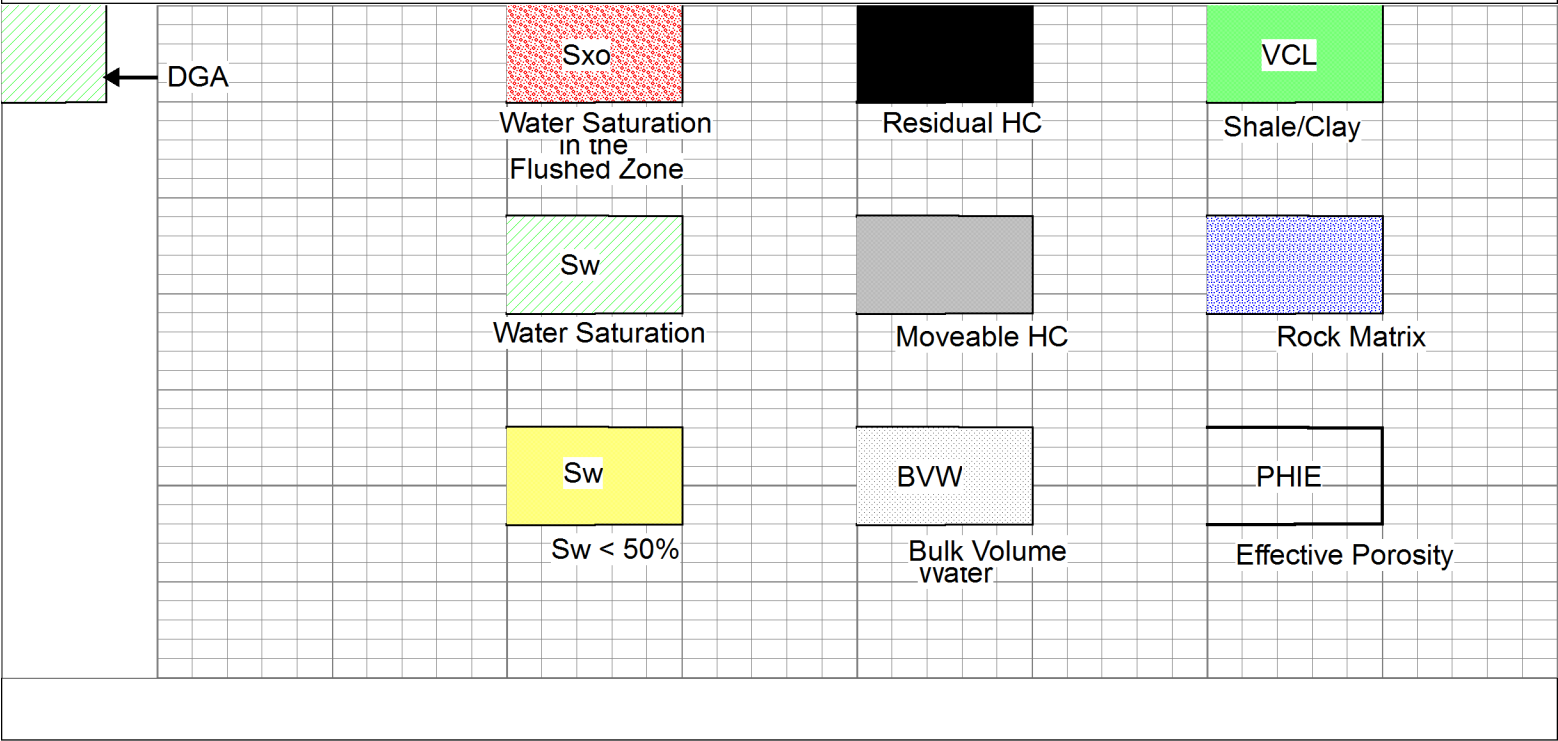
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.pioneerres.com
785 625 3858

Bazine,
1/2 East to EE Rd, 1/8 South,
West into

Database File: c:\warrior\data\cross plots\2wxplt.db
Dataset Pathname: litho
Presentation Format: 2wxplt



Database File: c:\warrior\data\amwar_schniepp # 4-31 ne\american_warrior090313.db

Dataset Pathname: cpi/awcpi

Presentation Format: calc

Dataset Creation: Tue Sep 03 12:23:45 2013

Charted by: Depth in Feet scaled 1:240

DGA		0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1
2.6	3.1	6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		-150	SPC (mV)	0	1	SXO	0	0.3	BVWSXO	0			

