



Pioneer Energy Services

Computer Processed Interpretation

API No.		Company American Warrior, Inc.			
15-135-25700-00-00		Well Denise #1-33			
		Field Thistle Grove Southwest			
		County	Ness	State	Kansas
		Location 1850' FSL & 2240' FWL			
		Sec: 33	Twp: 17S	Rge: 21W	Other Services DIL/CNL/CDL
Permanent Datum		Ground Level	Elevation 2146	Elevation	
Log Measured From		Kelly Bushing	8 Ft. Above Perm. Datum	K.B. 2154	
Drilling Measured From		Frankly Bushing		D.F. 2146	
Date Recorded		12/3/2013			
Depth Logger		4210			
		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		D. Schmidt			
Witnessed By		Jason Alm			
Analysis By		T. Martin			

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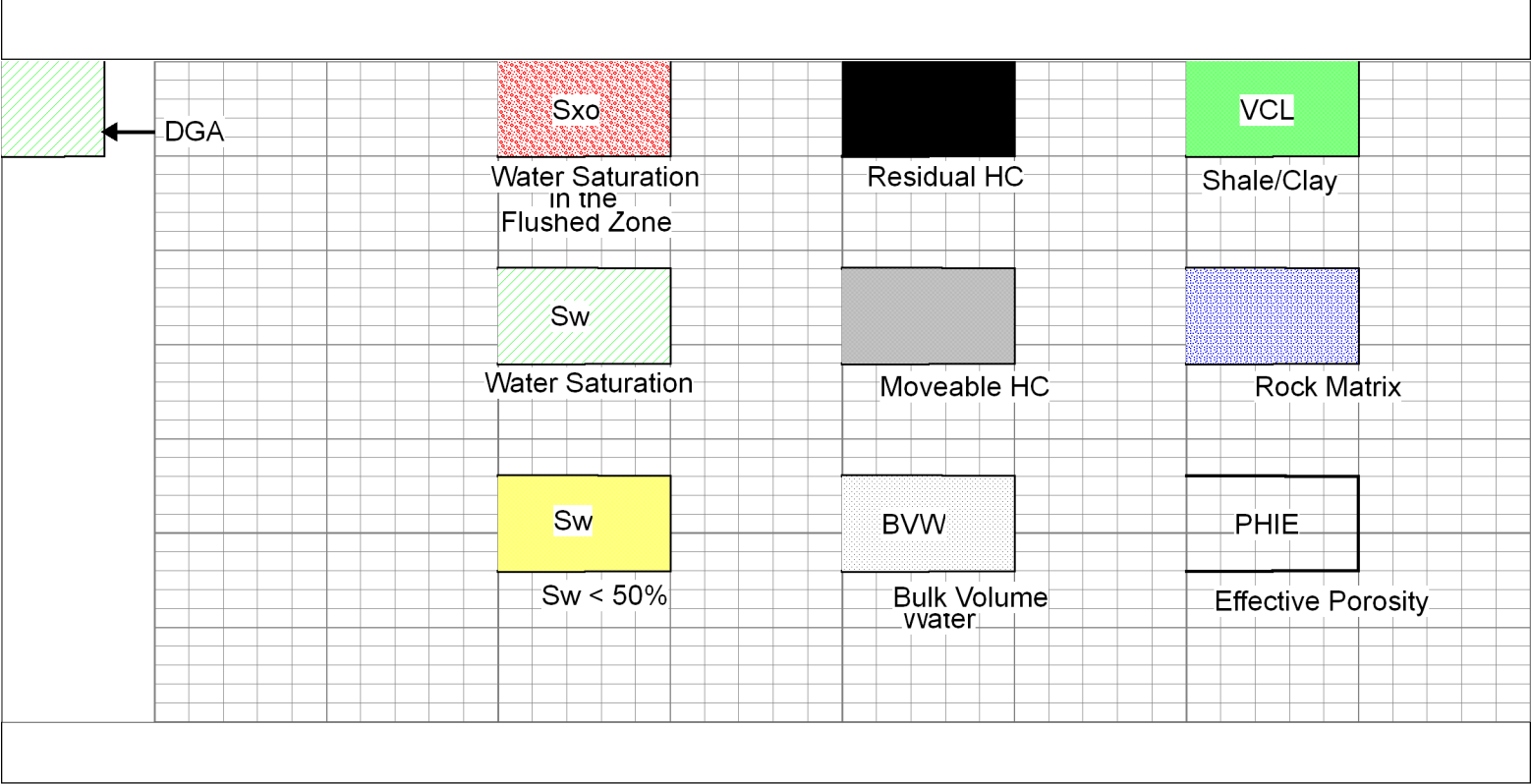
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Comments

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McCracken,
3 South to L Rd, 5 West, 1/2 South,
East into

Database File: c:\warrior\data\cross plots\2wxplt.db
Dataset Pathname: litho
Presentation Format: 2wxplt
Dataset Creation: Thu Apr 24 14:32:02 1997
Charted by: Depth in Feet scaled 1:240



Database File: amwar_120313hd.db
Dataset Pathname: dil/awcpi
Presentation Format: calc
Dataset Creation: Tue Dec 03 08:59:20 2013
Charted by: Depth in Feet scaled 1:240

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

