



Pioneer Energy Services

Computer Processed Interpretation

API No.	Company Flatirons Resources LLC.									
15-101-22,409-00-00	Well		Copenhaver #13-22							
	Field		Wildcat							
	County		Lane		State		Kansas			
	Location		2310' FSL & 330' FWL							
Sec: 22		Twp: 16 S		Rge: 28 W		Other Services DIL/CNL/CDL MEL				
Permanent Datum		Ground Level		Elevation 2683		Elevation				
Log Measured From		Kelly Bushing		10 Ft. Above Perm. Datum		K.B. 2693				
Drilling Measured From		Kelly Bushing				D.F. 2683				
Date Recorded		11/28/2012								
Depth Logger		4605		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								
BVMSXO		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.Kerr								
Witnessed By		Clayton Erickson								
Analysis By		Dale Legleiter								

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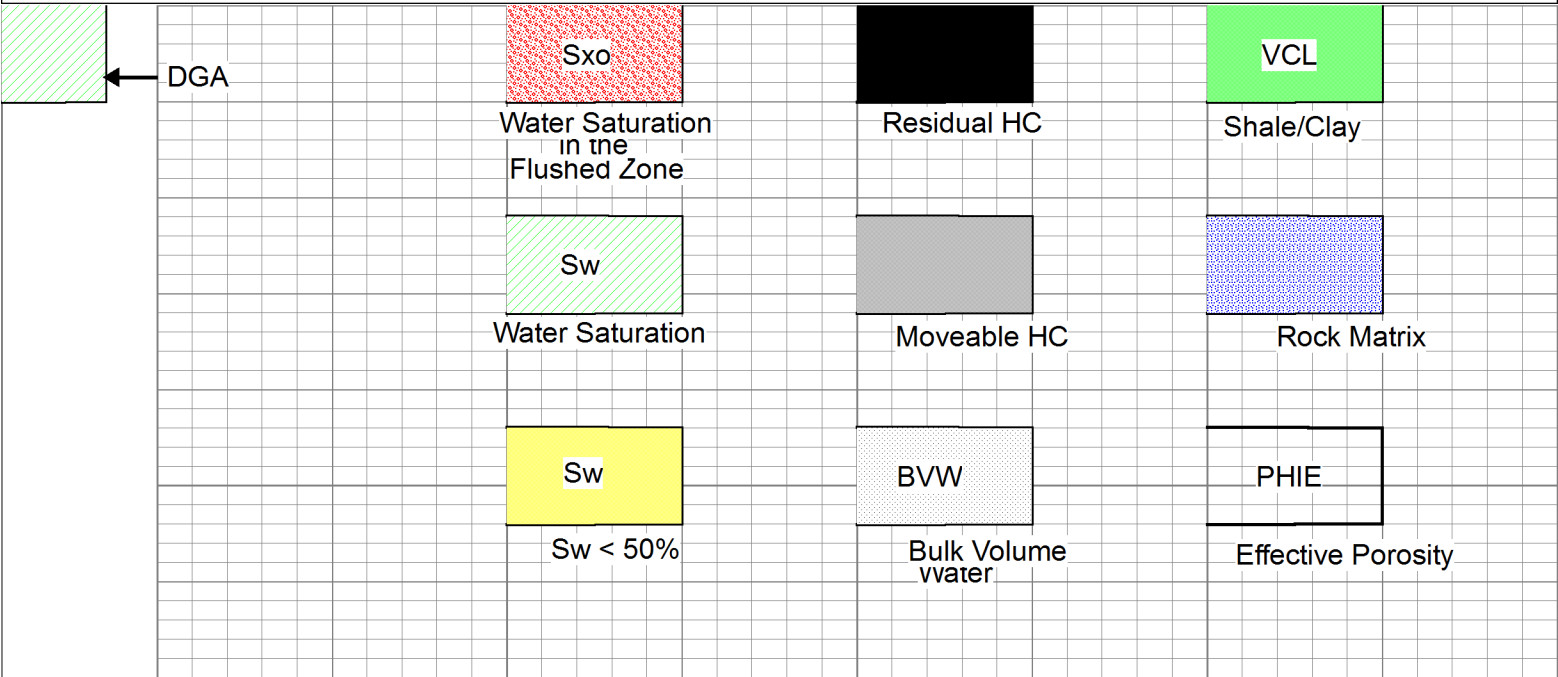
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Shields KS, East to Loreda RD,
2 North, 3/4 East, Left at Y through Cattle Gate,
1 East North Into

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



Database File: c:\warrior\data\flatirons_copenhaver #13-22\flatirons_copenhaver_1_32hd.db

Dataset Pathname: cpi/flatcpi

Presentation Format: calc

Dataset Creation: Wed Nov 28 18:33:48 2012

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	PERM	30			
							0.3	BVWSXO	0				

