



Computer Processed Interpretation

Pioneer Energy Services

API No.	Company New Gulf Operating, LLC				
	Well Marius #1-15				
	Field				
	County	Logan	State	Kansas	
15-109-21,292-00-00	Location	SW-SW-NW-SE 1388' FSL & 2379' FWL			Other Services DIL/CNL/CDL MEL
	Sec: 15	Twp: 14S	Rge: 34W	Elevation	
	Permanent Datum	Ground Level	Elevation 3029		K.B. 3038
Log Measured From	Kelly Bushing	9 Ft. Above Perm. Datum		D.F. G.L. 3029	
Drilling Measured From	Kelly Bushing				
Date Recorded	9/7/2014				
Depth Logger	4764	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				
BVWSXO	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	J. Henrickson				
Witnessed By	John Goldsmith				
Analysis By	Dale Legleiter				

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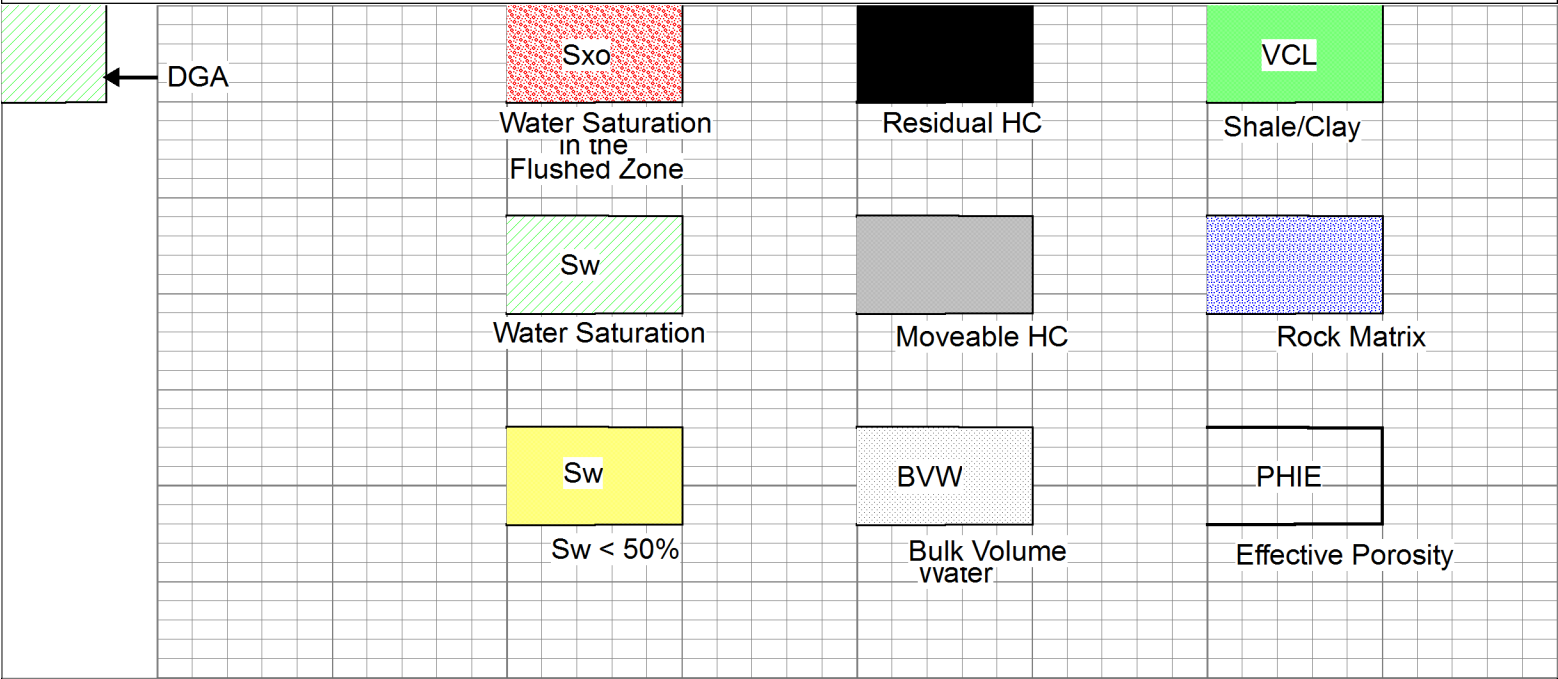
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

Russell Springs Kansas
1/2 East to 270 Rd, 7 South to Indian Rd, East to 320 Rd, 1 North, West Into

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



Database File: c:\warrior\data\new gulf_marius #1-15\newgulf_marius_1_15hd.db

Dataset Pathname: DIL/ngcpi

Presentation Format: calc

Dataset Creation: Mon Sep 08 12:15:25 2014

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			

