

Company Blackhawk Production
 Well Frank C. Sanders #13
 Field Toulon
 County Ellis
 State Kansas

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Location: API #: 15-051-26227

400' FSL & 1809' FWL

SEC 10 TWP 14S RGE 17W

Other Services

Permanent Datum Ground Level Elevation 2003'
 Log Measured From KB 8' AGL
 Drilling Measured From KB

Elevation
 K.B. 2011'
 D.F. 2010'
 G.L. 2003'

Date 11-25-11

Depth Driller 3548'

Curve Definitions

SW Water Saturation

Rwa Apparent Water Resistivity

VSH Volume Shale

PHIE Effective Porosity

K Permeability

BVW Bulk Volume Water

Pay If: PHIE > 6%, VSH < 20%, SW < 50%, DCAL < 10"

Recorded By L. Smith

Witnessed By Tony Richardson

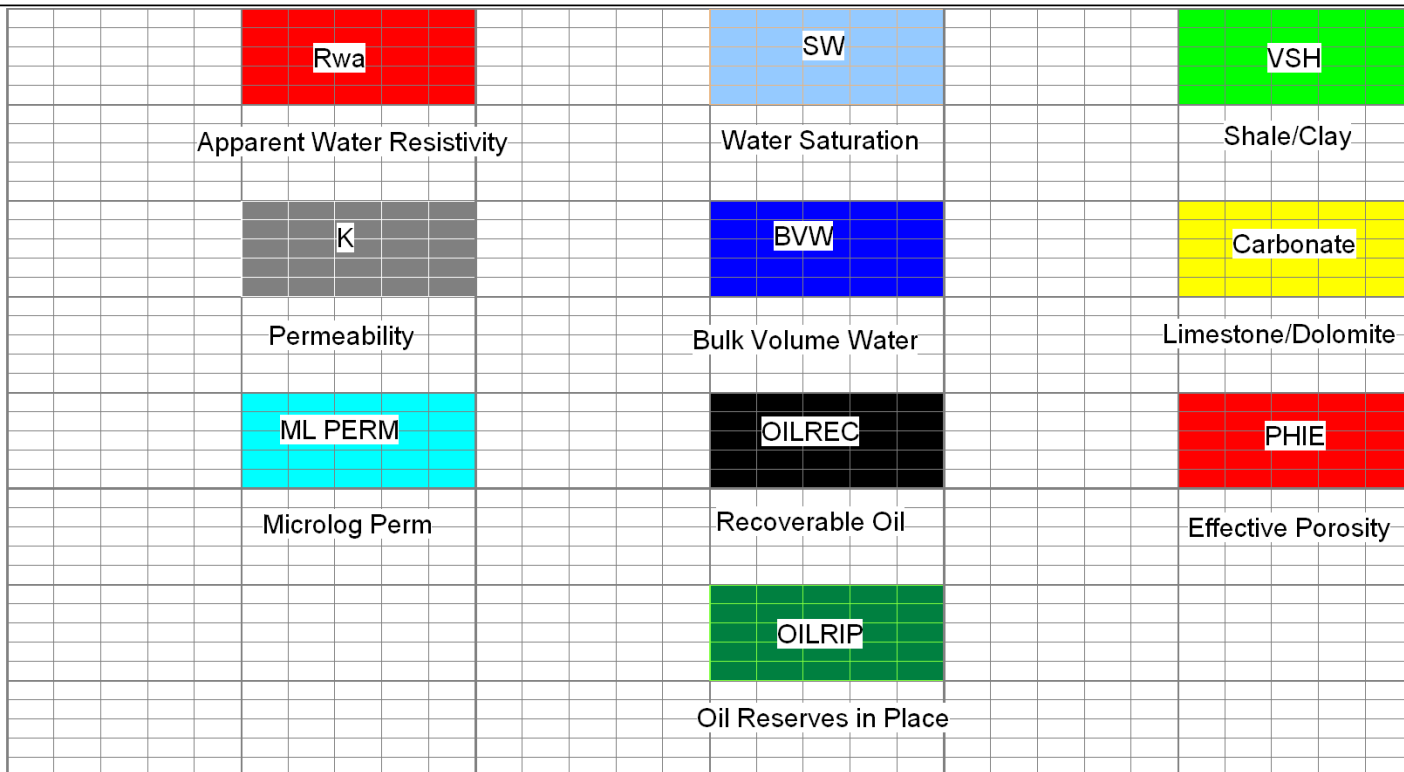
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Comments

Thanks for using The Perforators, Hays, KS. 785-621-4604

Database File: gcolorchart.db
 Dataset Pathname: pass3.1
 Presentation Format: color
 Dataset Creation: Wed Nov 17 10:09:46 2010
 Charted by: Depth in Feet scaled 1:240



Database File: bhfrankcsanders#13oh.db
 Dataset Pathname: oh2
 Presentation Format: kohcgi
 Dataset Creation: Mon Nov 28 13:43:28 2011
 Charted by: Depth in Feet scaled 1:240

0	GR (GAPI)	150	RILD	0	MI (Ohm-m)	60	100	SW (%)	-100	0	VSH (%)	100	
-100	SP (mV)	100	0.2 (Ohm-m)	2000	0	MN (Ohm-m)	60	50	PHIE (%)	0	50	PHIE (%)	0
6	DCAL (in)	16	RLL3	0	Rwa (Ohm-m)	1	50	BVW (%)	0				
6	BOREID (in)	16	0.2 (Ohm-m)	2000	0	K	5	30	NPOR (pu)	-10			
140	Rxo\Rt	-60	0	NEU (NAPI)	700			30	DPOR (pu)	-10			
								200	COILREC (bbl)	0			
								8000	OILRIP (bbl)	0			

