



Pioneer Energy Services

## Computer Processed Interpretation

API No. 15-193-20918-00-00

Company **Prater Oil & Gas Operations, Inc.**  
 Well **Maurath #1**  
 Field **Triangle Northwest**  
 County **Thomas** State **Kansas**

Location **660' FEL & 2310' FSL**

Sec: **15** Twp: **10S** Rge: **31W**

Permanent Datum **Ground Level** Elevation **2985**  
 Log Measured From **Kelly Bushing** 8 Ft. Above Perm. Datum  
 Drilling Measured From **Kelly Bushing**

Other Services  
 DIL/CNL/CDL  
 Elevation  
 K.B. 2993  
 D.F. 2985  
 G.L. 2985

Date Recorded 4/21/2014

Depth Logger 4660

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 Scott Alberg

Analysis By T. Martin

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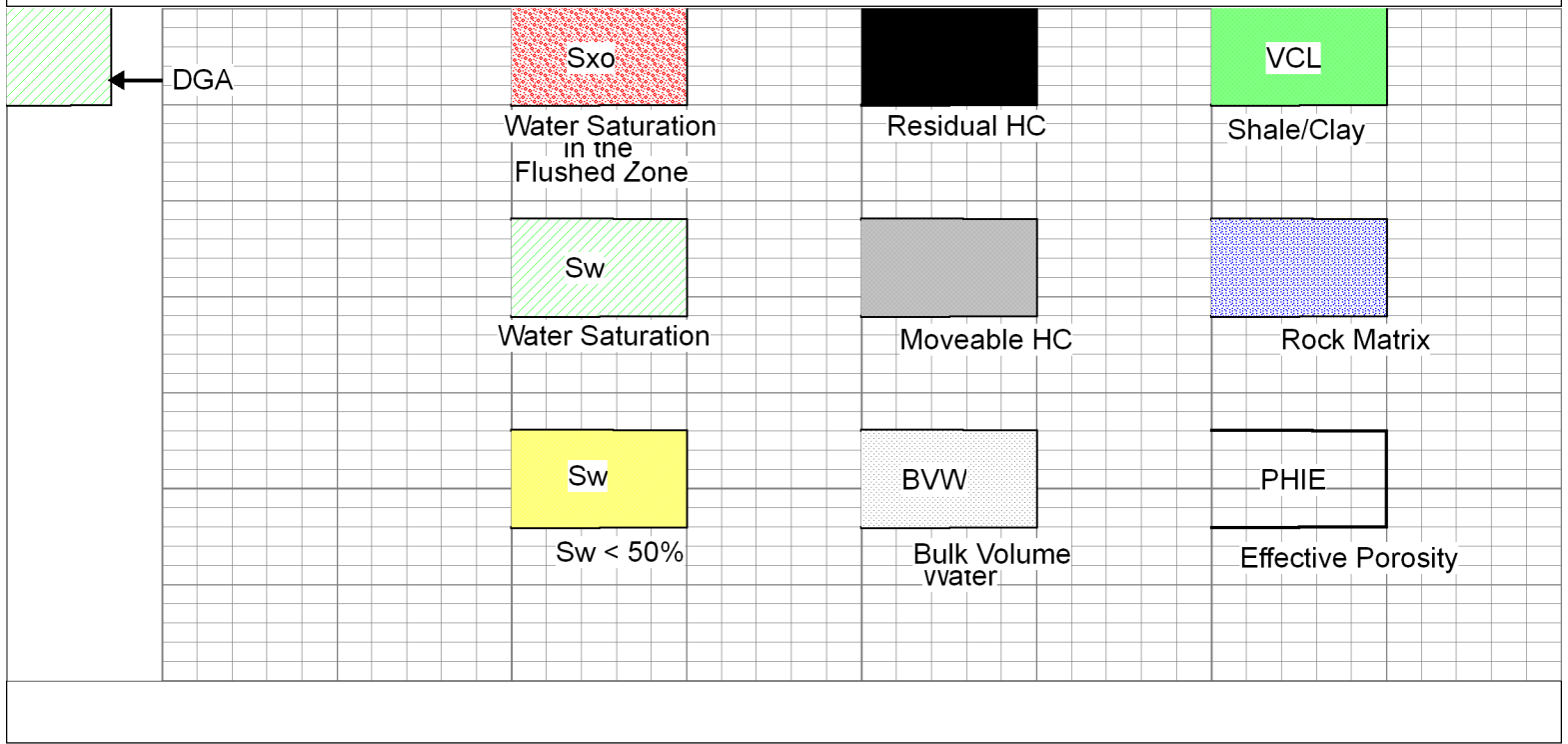
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### Comments

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I-70 & Campus Exit,  
 4 1/2 North, 3/4 West, 1/2 North,  
 West 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: prater\_042114hd.db  
 Dataset Pathname: dil/prcpi  
 Presentation Format: calc  
 Dataset Creation: Mon Apr 21 16:38:39 2014  
 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	DCAL (in)	16	SXO	0	0.3	BVWSXO	0			
	SPC (mV)	0								

