



Pioneer Energy Services

## Computer Processed Interpretation

15-051-26,662-00-00

API No.

Company **Oil Producers, Inc. of Kansas**  
 Well **Clinton 'D' No. 5**  
 Field **Bemis-Shutts**  
 County **Ellis** State **Kansas**

Location  
 SW-NE-SW-NW  
 1955' FNL & 924' FWL

Sec: 5 Twp: 12S Rge: 17W

Other Services  
 DIL/CNL/CDL

Permanent Datum Ground Level Elevation 2126  
 Log Measured From Kelly Bushing 5 Ft. Above Perm. Datum  
 Drilling Measured From Kelly Bushing

Elevation  
 K.B. 2131  
 D.F. 2126  
 G.L. 2126

Date Recorded 3/29/14

Depth Logger 3688

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 J. Henrickson

Witnessed By Kent Matson

Analysis By T. Martin

<<< Fold Here >>>

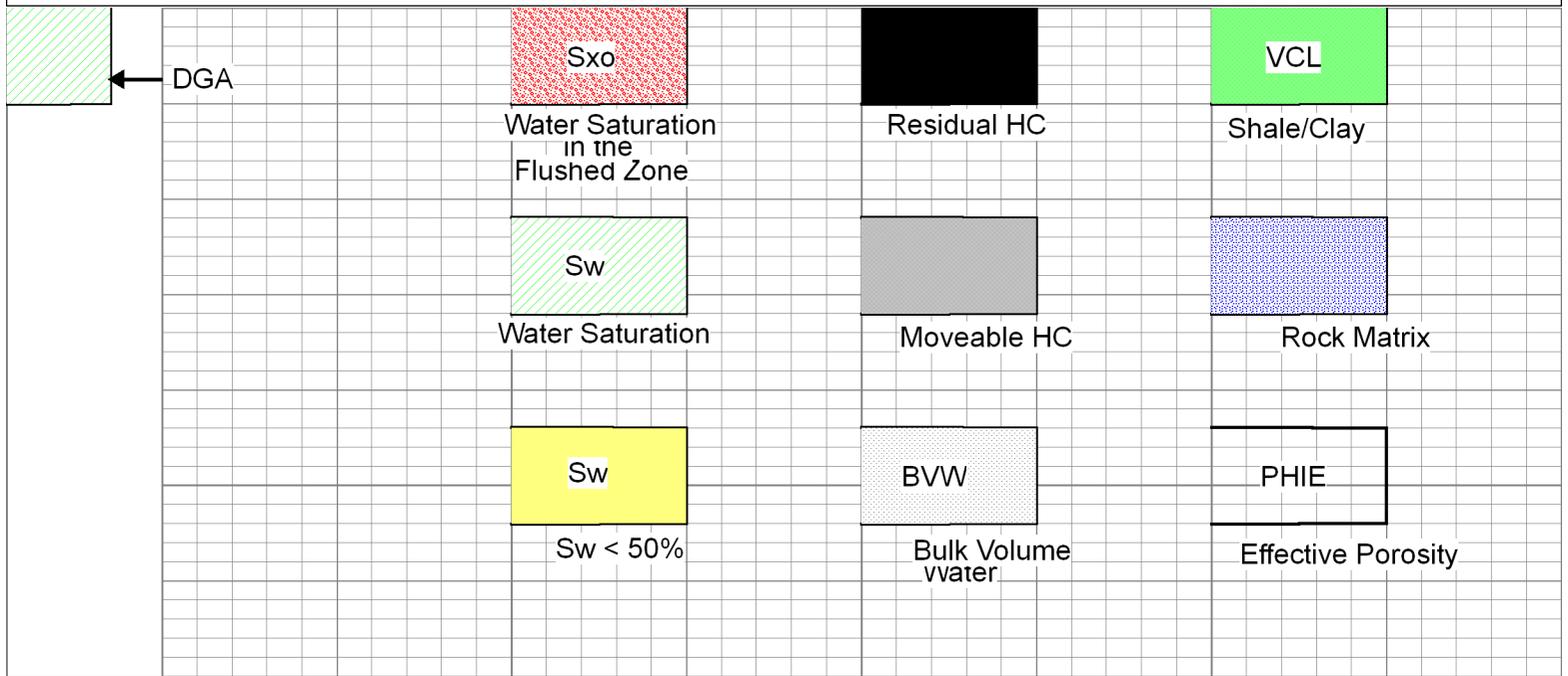
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Log-Tech, Inc.  
[www.logtechinc.com](http://www.logtechinc.com)

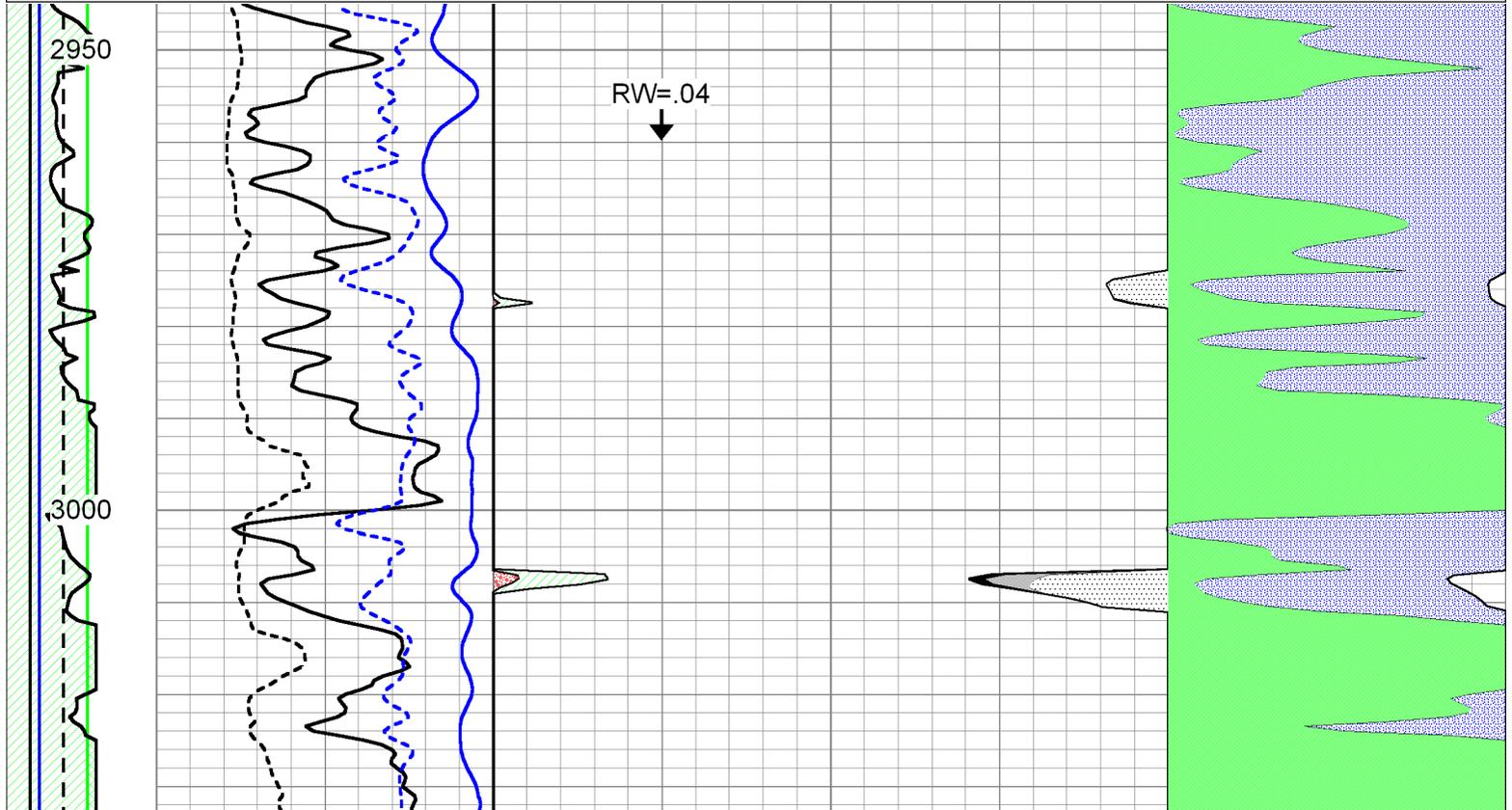
Hays Kansas  
 North to Severin Rd, East to Toulon, 1 1/2 North, East Into

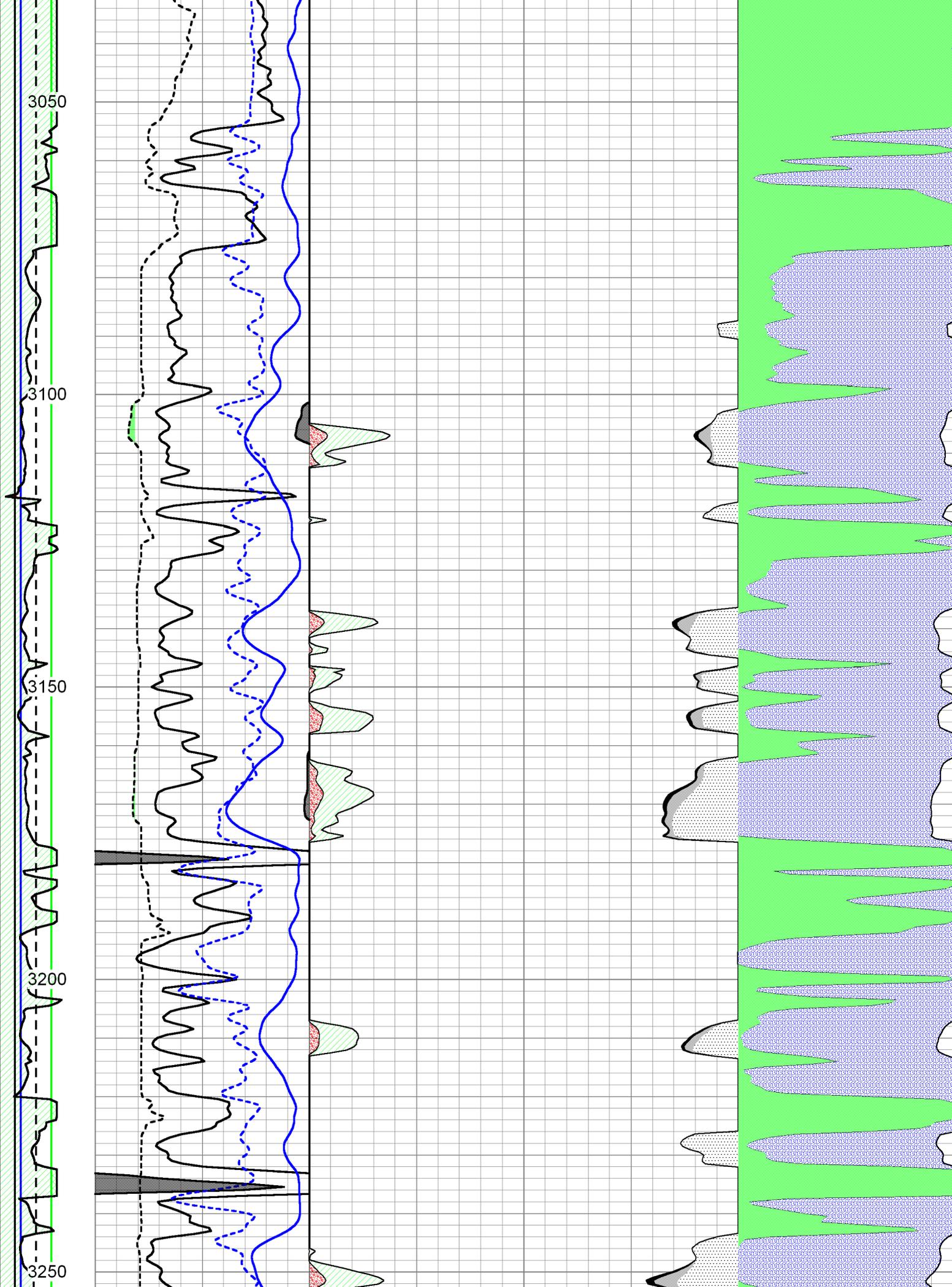
Database File: c:\warrior\data\cross plots\2wxplt.db  
 Dataset Pathname: litho  
 Presentation Format: 2wxplt  
 Dataset Creation: Thu Apr 24 14:32:02 1997  
 Charted by: Depth in Feet scaled 1:240

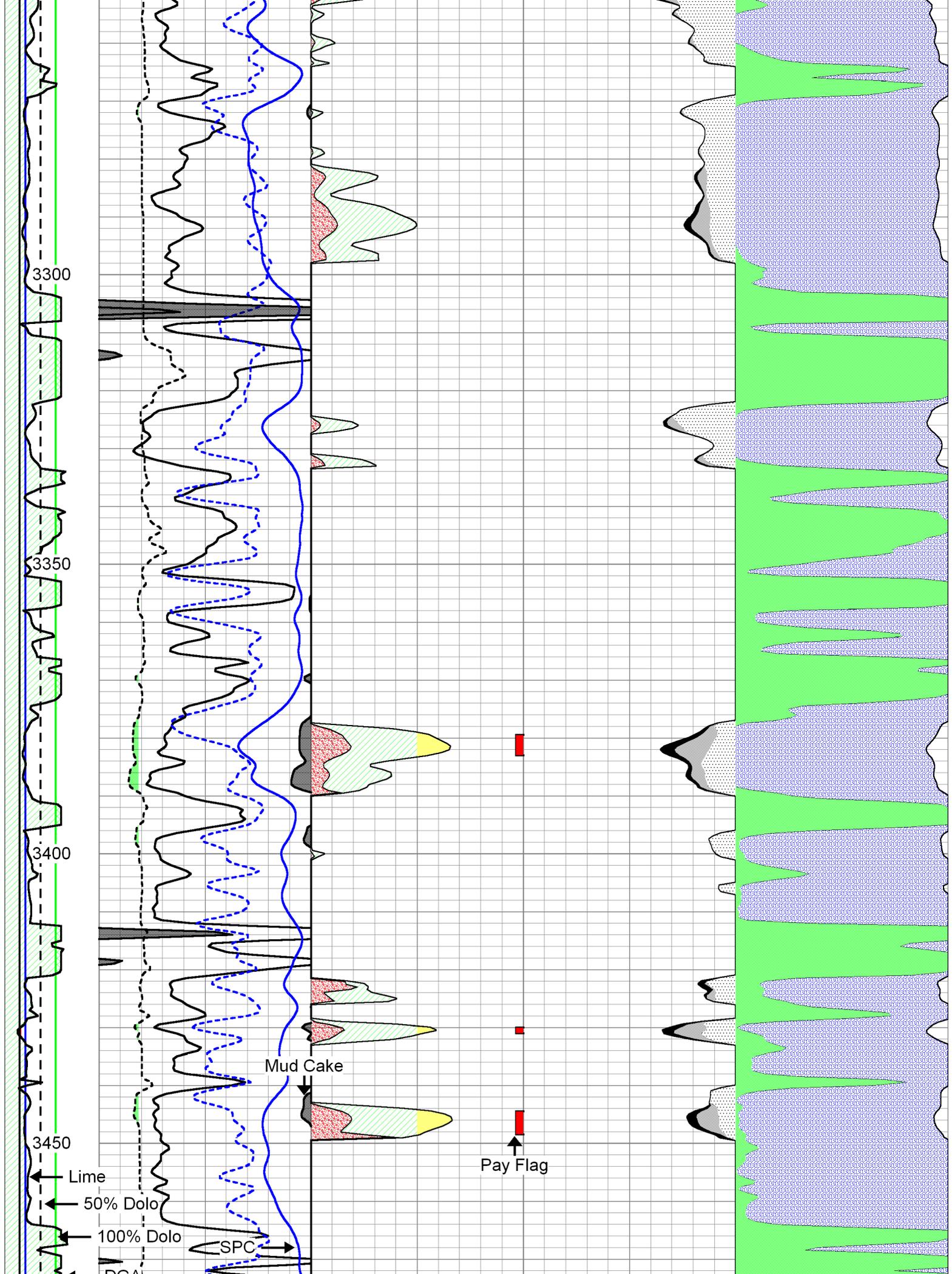


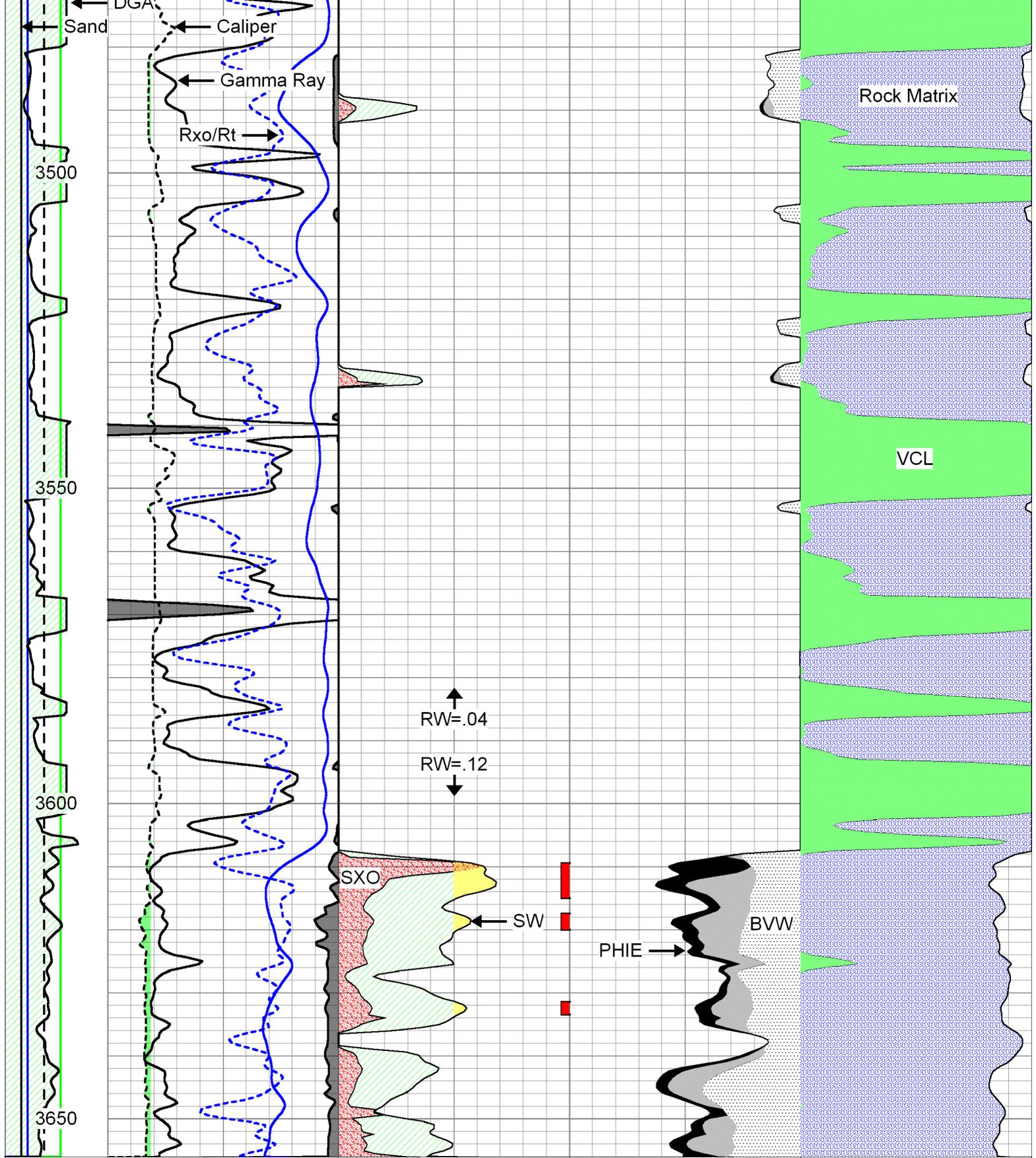
Database File: oilproducersofkansas\_clinton\_d\_5hd.db  
 Dataset Pathname: DIL/opokpci  
 Presentation Format: calc  
 Dataset Creation: Sat Mar 29 14:14:49 2014  
 Charted by: Depth in Feet scaled 1:240

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								









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						