



Pioneer Energy Services

Computer Processed Interpretation

15-153-21,007-00-00

API No.

Company **Forestar Petroleum Corporation**

Well **K&K # 2-31**

Field **Beaver Creek**

County **Rawlins** State **Kansas**

Location **SW-SE-SW-NW
2500' FNL & 900' FWL**

Sec: **31** Twp: **1S** Rge: **31W**

Other Services
DIL/CNL/CDL
MEL

Permanent Datum **Ground Level** Elevation **2870**

Log Measured From **Kelly Bushing** 6 Ft. Above Perm. Datum

Drilling Measured From **Kelly Bushing** Elevation **2876**
D.F. **2870**
G.L. **2870**

Date Recorded **5/14/2014**

Depth Logger **4151** 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 **Charles Sturdavant**

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

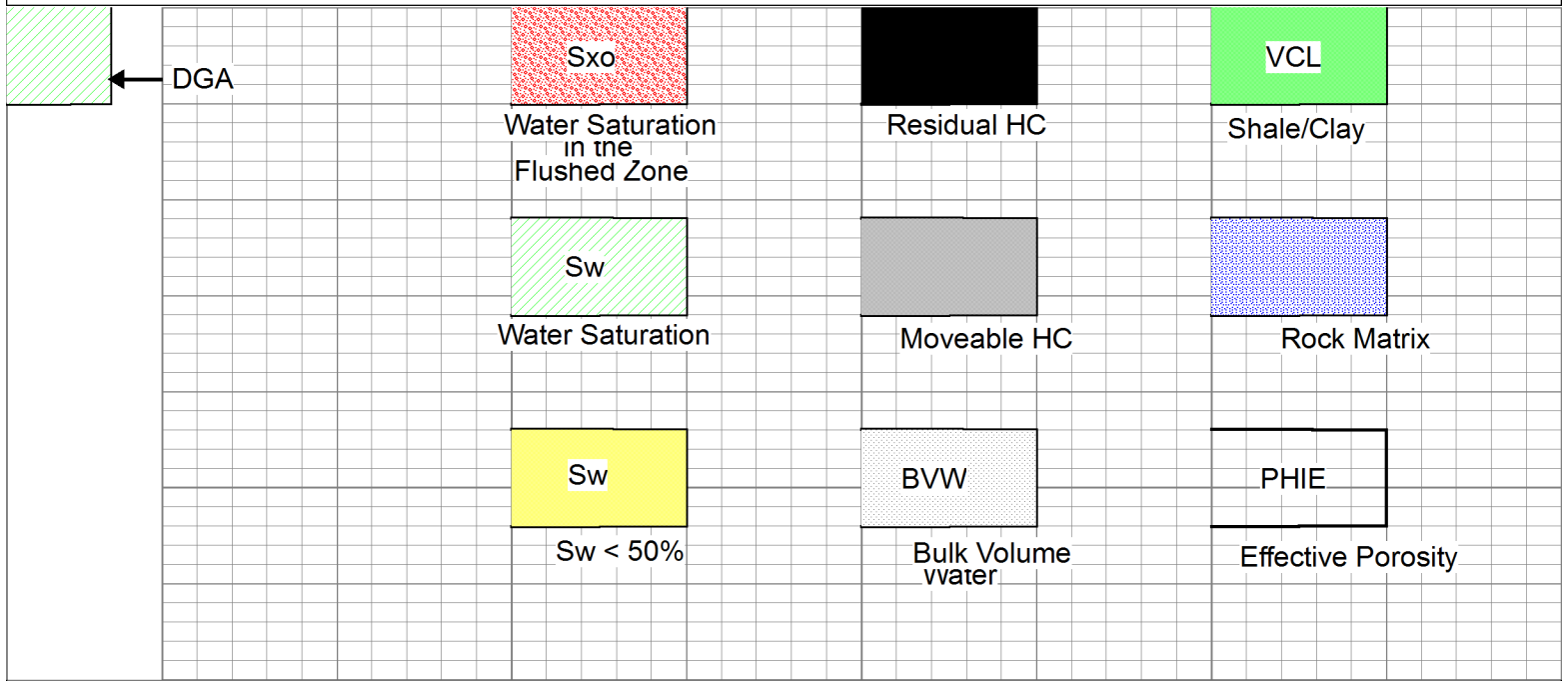
Thank you for using Pioneer Energy Services
www.pioneer.com
 785 625 3858

Herndon Kansas
 North Edge of Town, 3 1/2 West, 1 North, 1/2 West, South Into

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

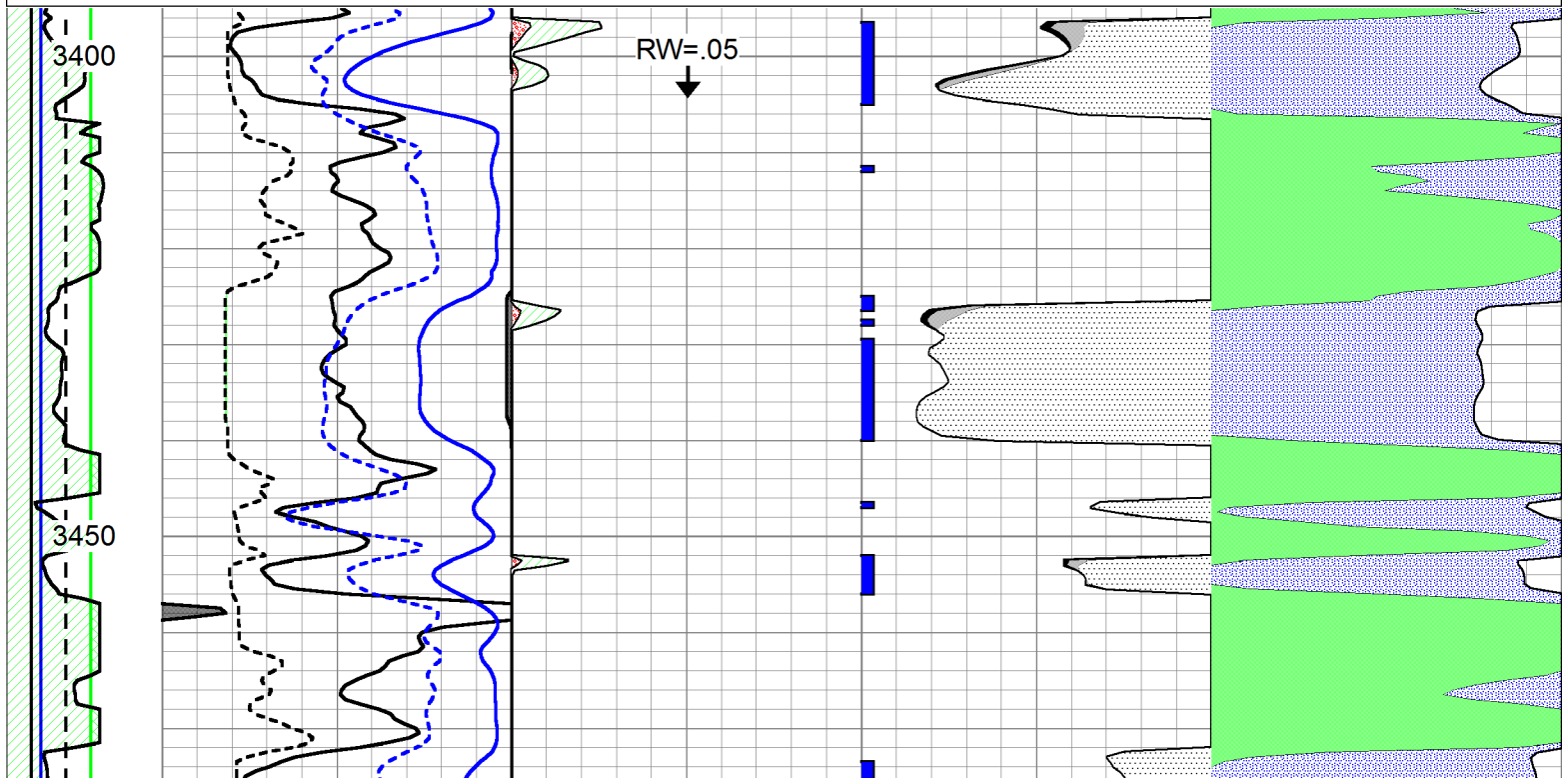
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Charted by:

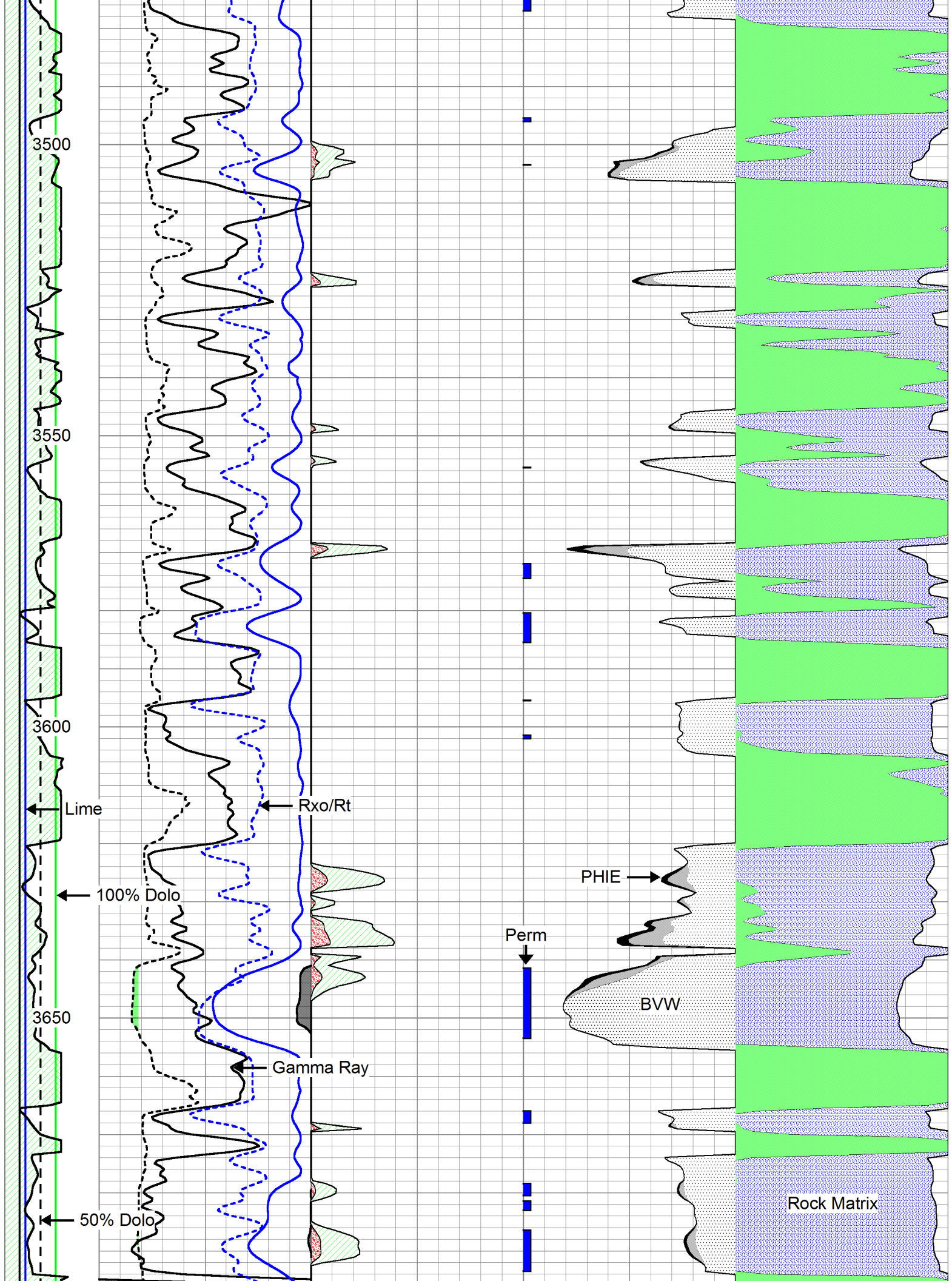
Thu Apr 24 14:32:02 1997
Depth in Feet scaled 1:240

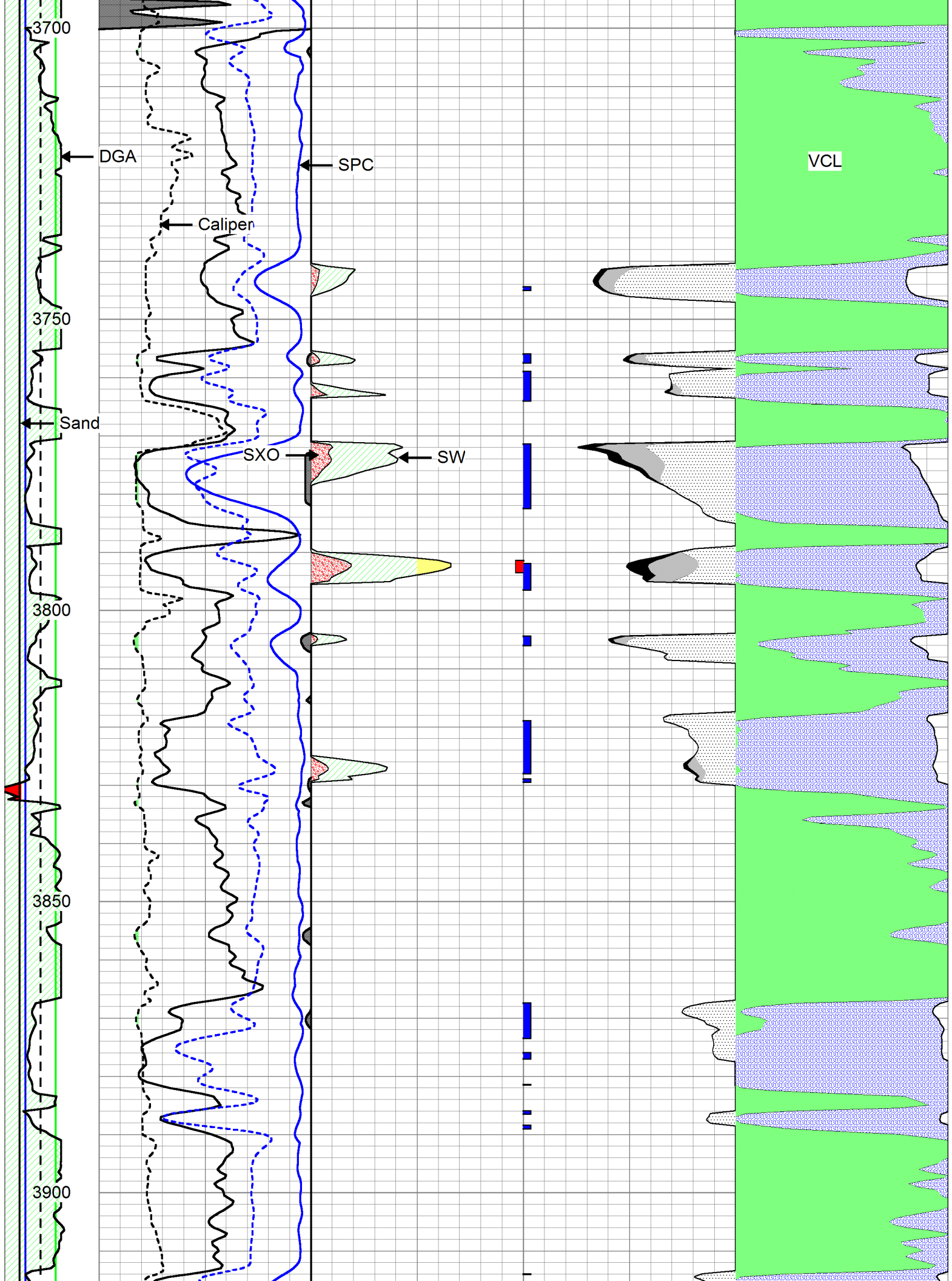


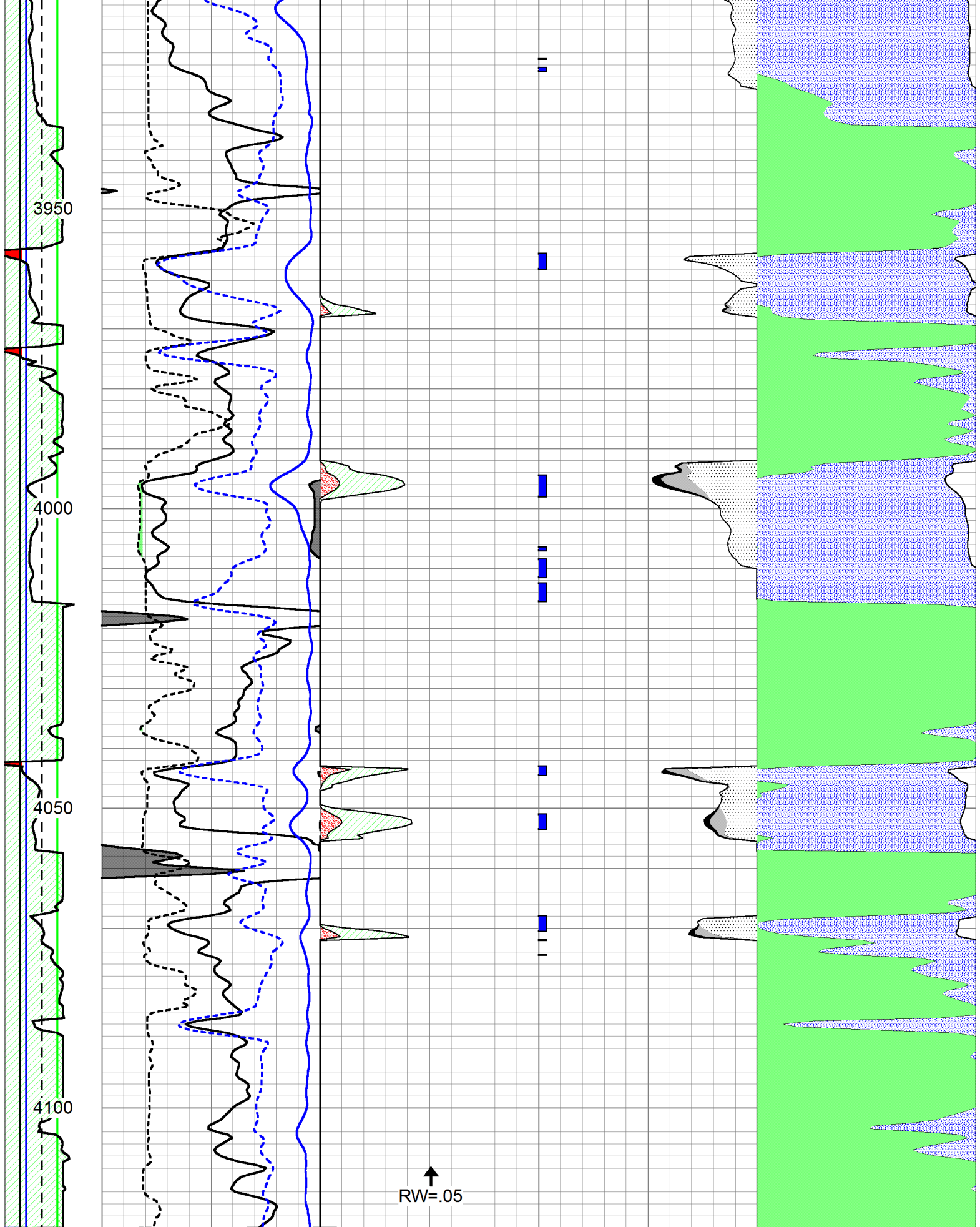
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 Dataset Pathname: cpi/forecpi
 Presentation Format: calc
 Dataset Creation: Thu May 15 14:39:12 2014
 Charted by: Depth in Feet scaled 1:240

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			









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