



Pioneer Energy Services

Computer Processed Interpretation

API No. 15-135-25,582-00-00

Company **American Warrior, Inc.**
 Well **Dianne #2-20**
 Field **Hinnergardt**
 County **Ness** State **Kansas**

Location **2310' FNL & 1600' FEL**

Sec: **20** Twp: **19S** Rge: **21W**

Other Services
DIL/CNL/CDL

Permanent Datum **Ground Level** Elevation **2276**
 Log Measured From **Kelly Bushing** **8** Ft. Above Perm. Datum
 Drilling Measured From **Kelly Bushing**

Elevation
K.B. **2284**
D.F. **2276**
G.L. **2276**

Date Recorded	5/3/2013
Depth Logger	4400
	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	C. Desaire
Witnessed By	Jason Alm
Analysis By	Dale Legleiter

<<< Fold Here >>>

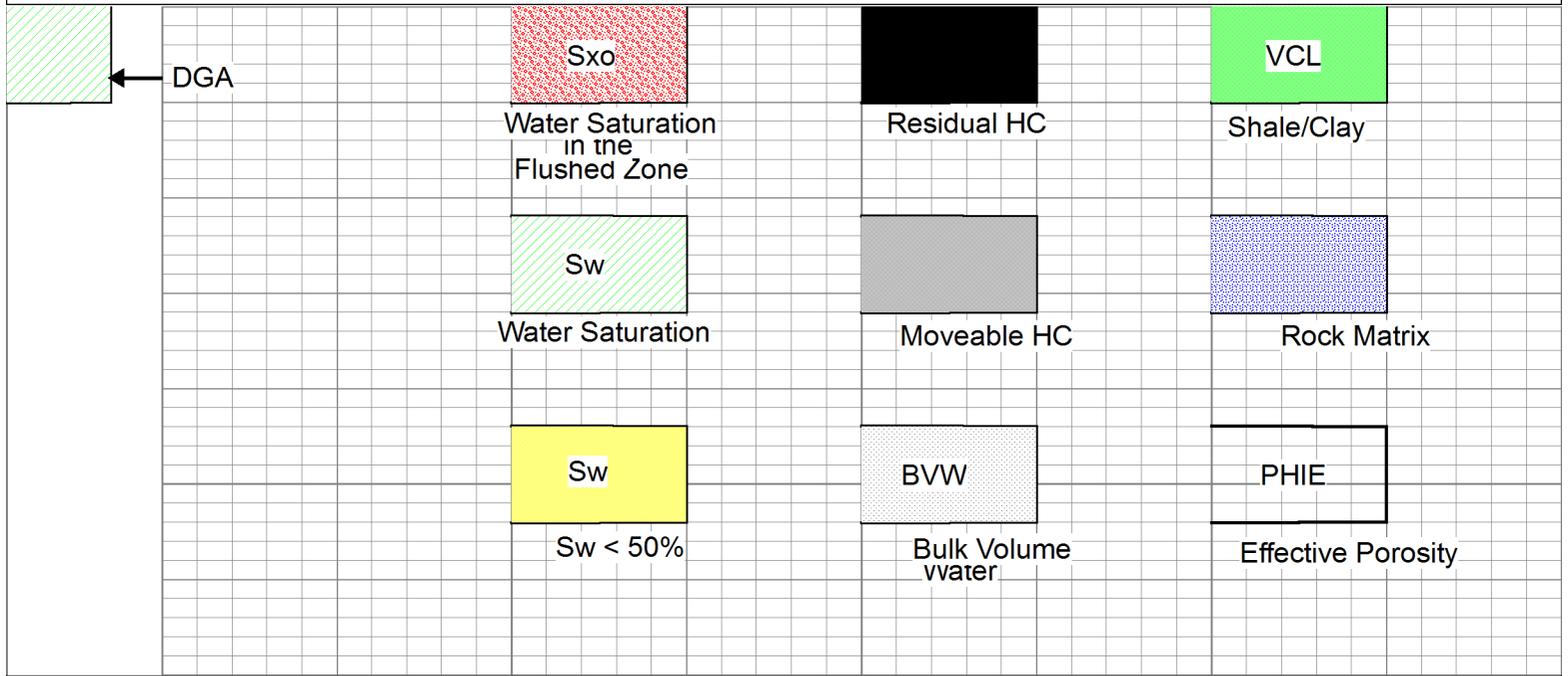
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 Pioneer Energy Services
www.pioneer.com
 785 625 3858

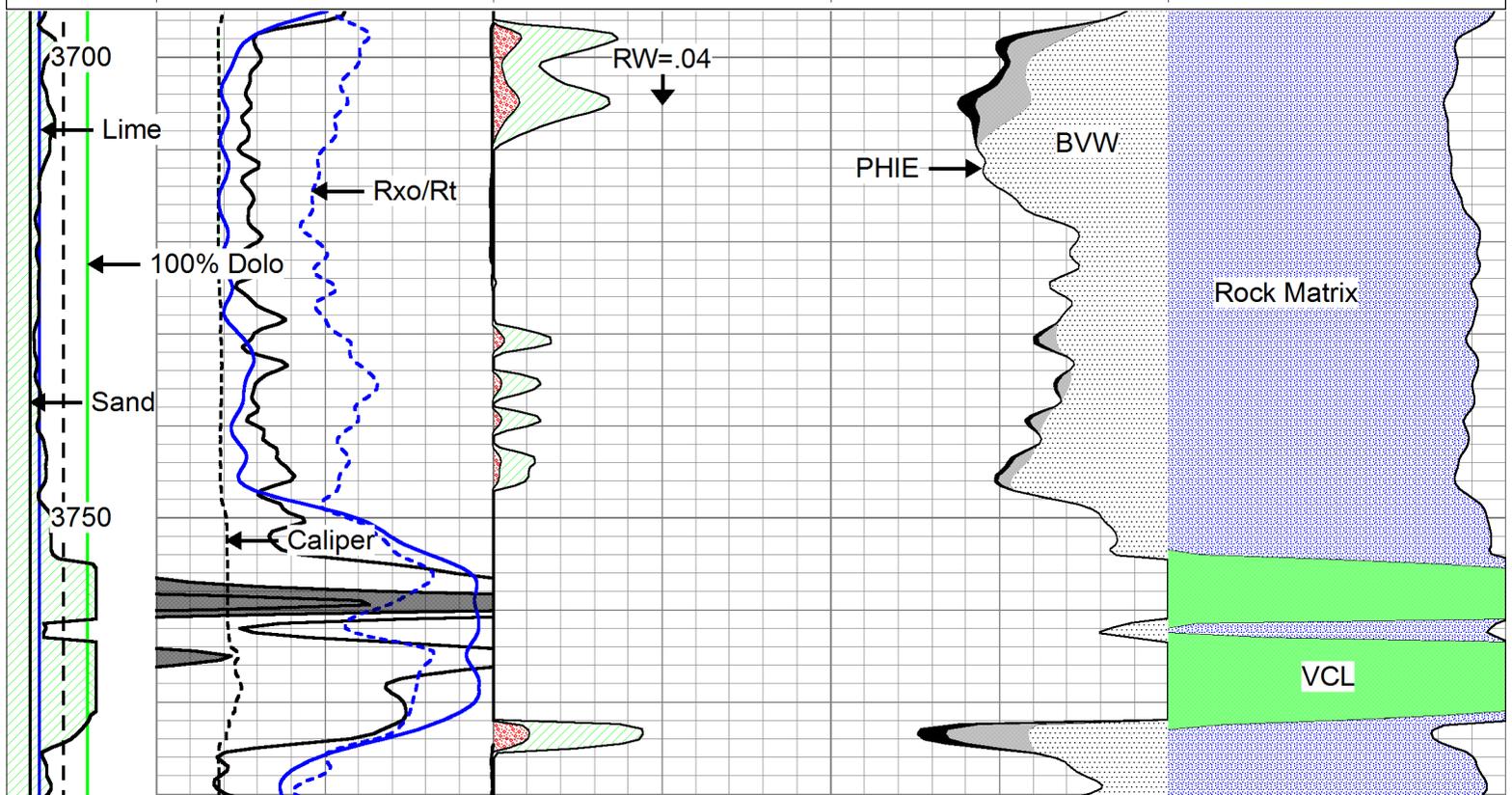
Alexander KS, 4 1/2 W to GG Rd, 3 S to 100 Rd,
 1 W, 1 S, 1/4 W, S Into

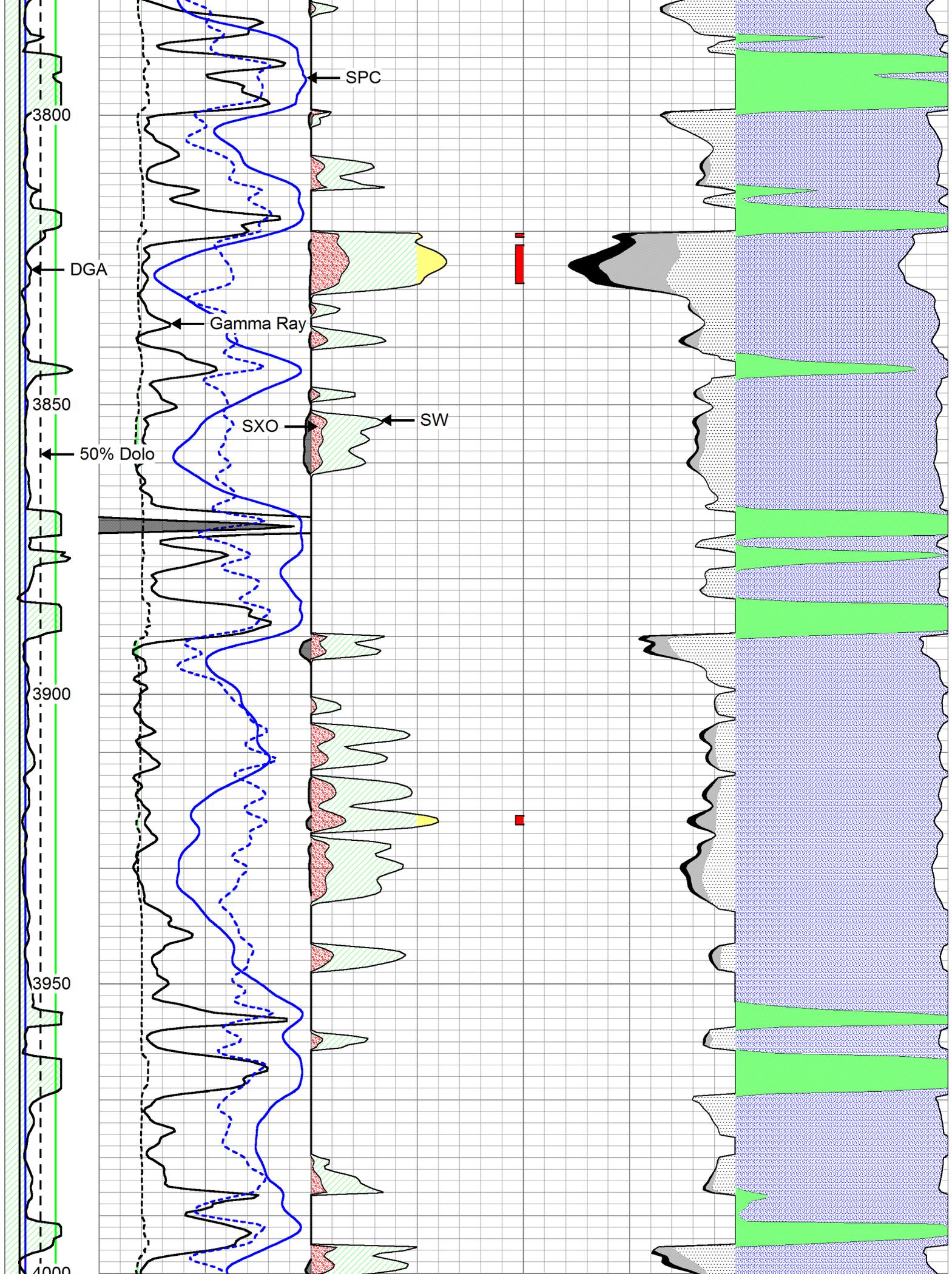
Database File: c:\warrior\data\cross plots\2wxplt.db
 Dataset Pathname: litho
 Presentation Format: 2wxplt

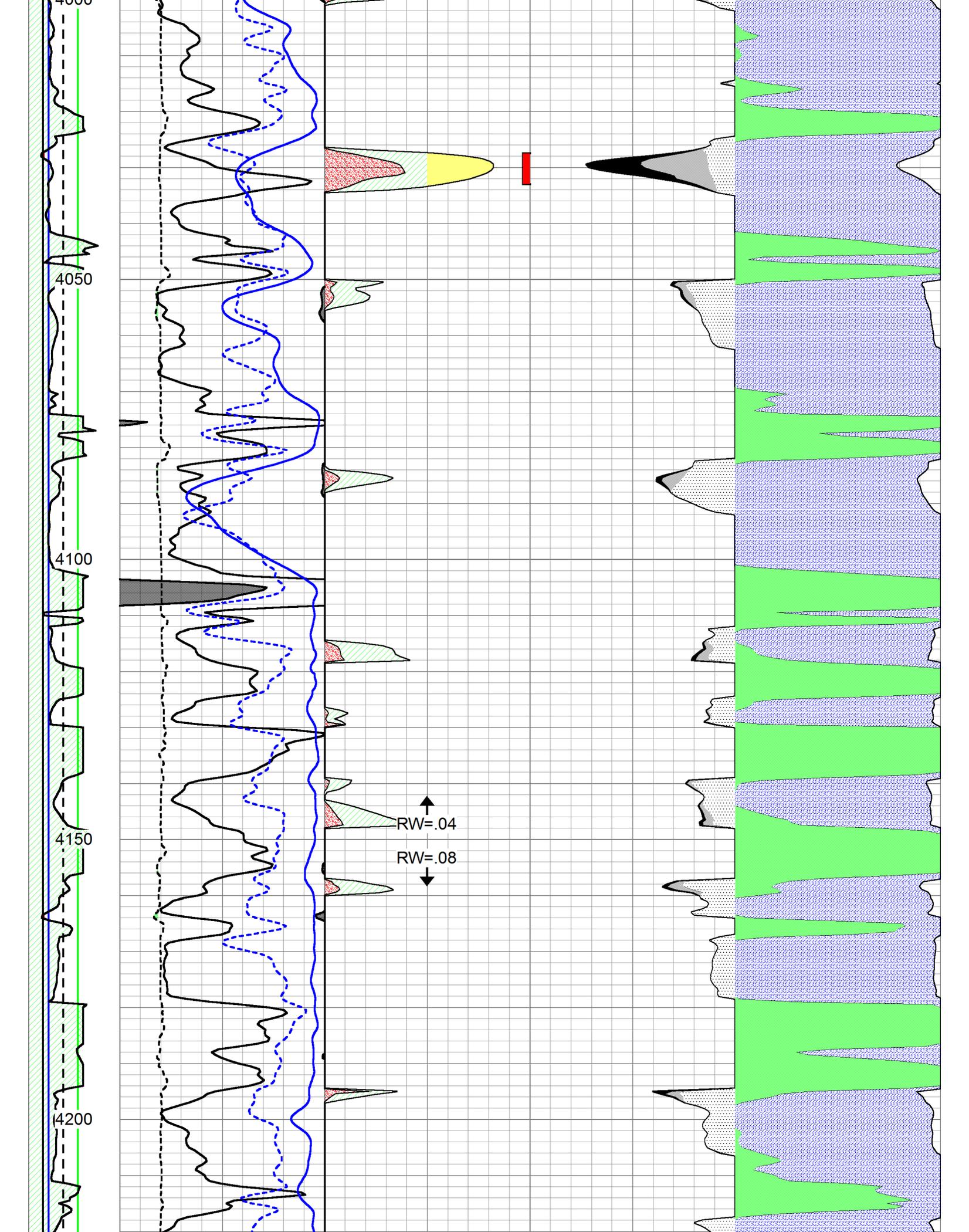


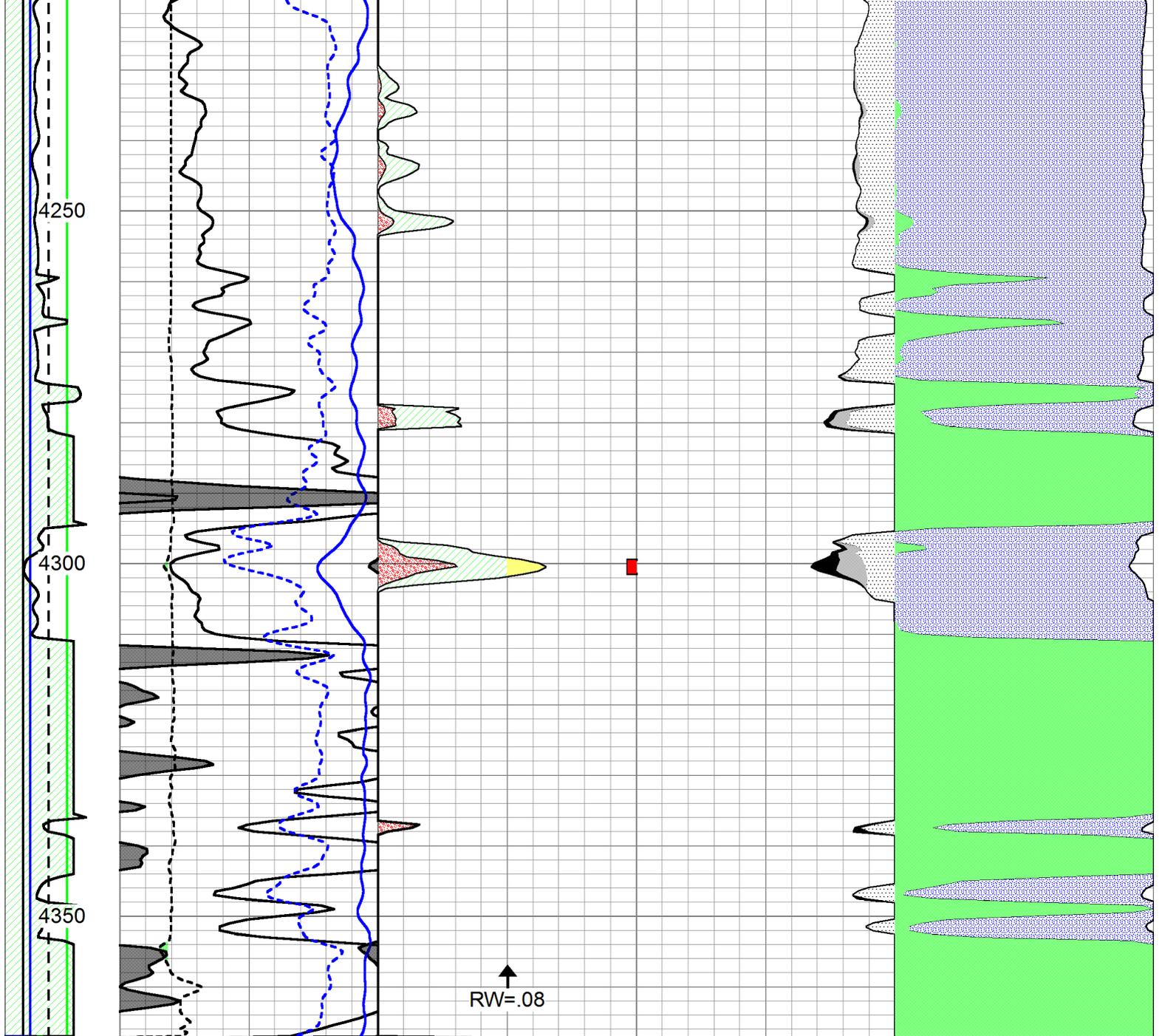
Database File: c:\warrior\data\amwar_dianne no.2-20\awhd.db
 Dataset Pathname: cpi/awcpi
 Presentation Format: calc
 Dataset Creation: Fri May 03 11:31:13 2013
 Charted by: Depth in Feet scaled 1:240

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	0.3	BVWSXO	0			









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	0.3	BVWSXO	0			