



Computer Processed
Interpretation

Company BRUCE OIL COMPANY, LLC		Company BRUCE OIL COMPANY, LLC
Well ANNE MARIE #1		Well ANNE MARIE #1
Field UNKNOWN		Field UNKNOWN
County OSBORNE		County OSBORNE
State KANSAS		State KANSAS
Location: API # : 15-141-20486-00-00 SEC 5 TWP 9S RGE 12W 1320' FSL & 300' FWL		Other Services RAG
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING KELLY BUSHING	Elevation K.B. 1705' D.F. N/A G.L. 1700'
Date Recorded	7/7/2019	
Depth Logger	2970'	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	
BVWSXO	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< 40 & DCAL< 11	
Recorded By	D. SCHMIDT	
Witnessed By	BOB PETERSEN	
Analysis By	DAN SCHMIDT	

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

LURAY,
13 NORTH, 1 EAST,
SOUTH AND WEST INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

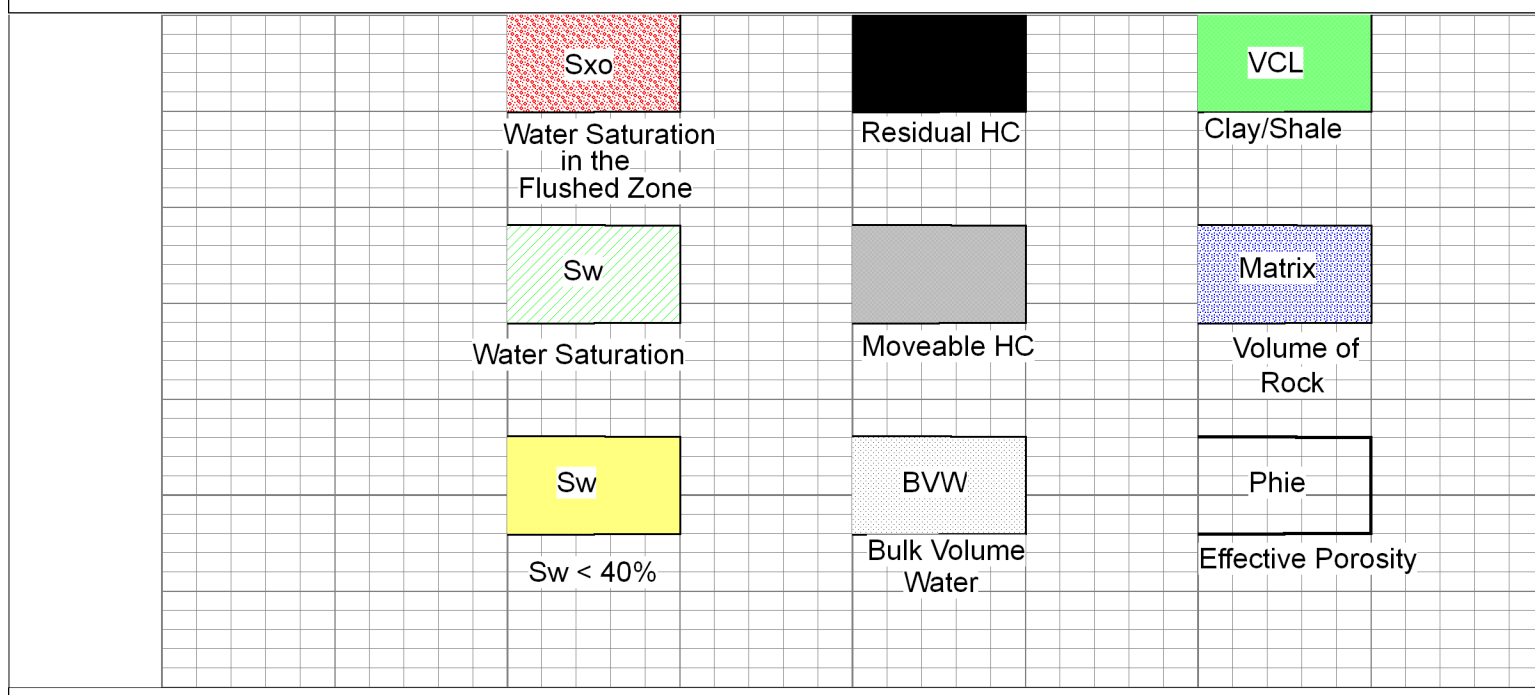
Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BOB PETERSEN
Secondary Witness:
Secondary Witness:
Secondary Witness:

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

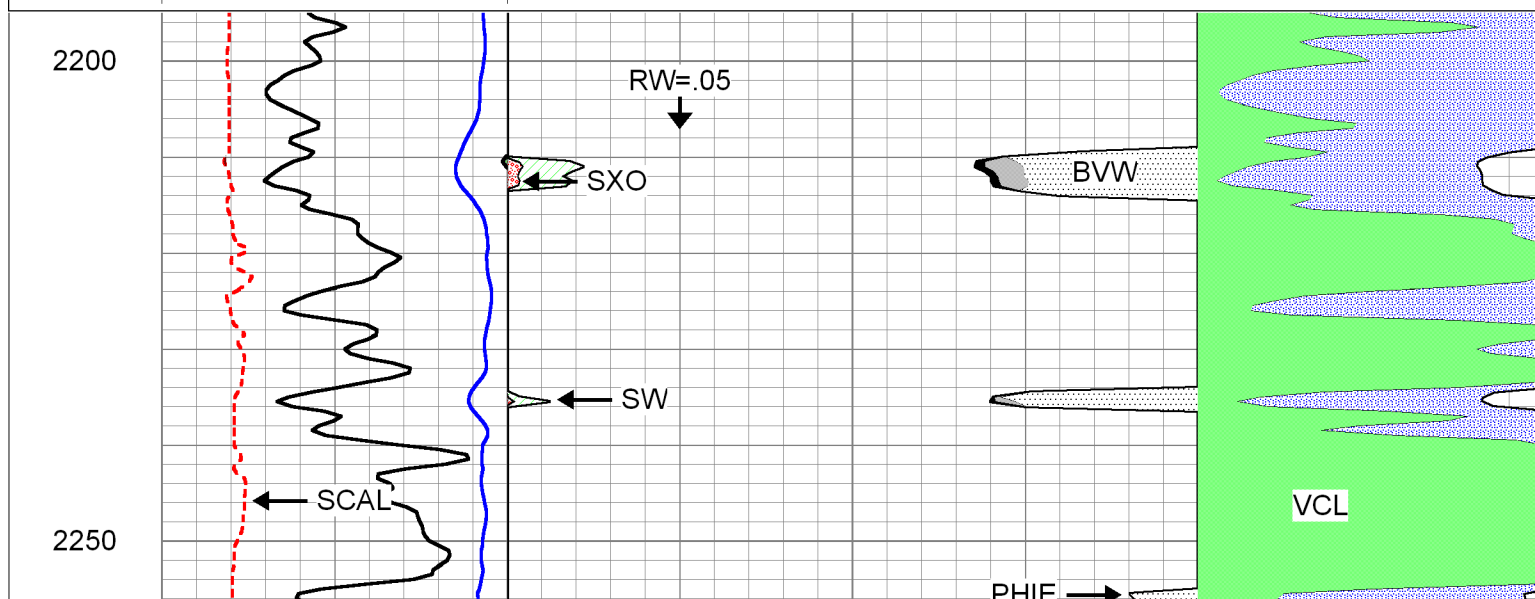


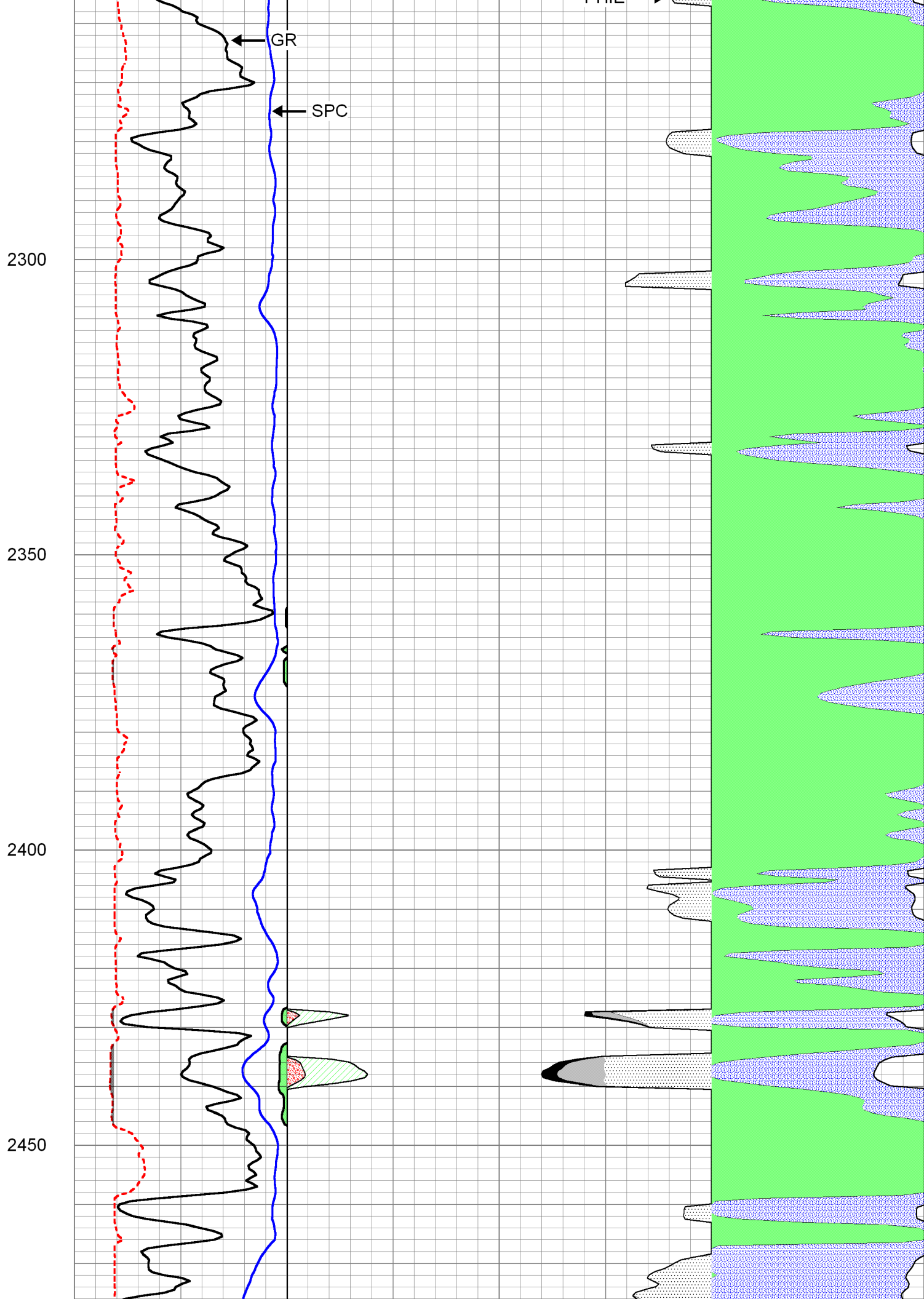
PIONEER
Pioneer Energy Services

CPI

Database File bruce_anne marie hd.db
 Dataset Pathname CPI3/brcpi
 Presentation Format ragcalc
 Dataset Creation Mon Jul 08 14:44:16 2019
 Charted by Depth in Feet scaled 1:240

	Gamma Ray	1	SW	0	0.3	PHIE	0	0	VCL	1	
0	(GAPI)	150	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
6	SCAL (in)	16	1	SXO	0	0.3	BVWSXO	0			
-150	SPC	0									



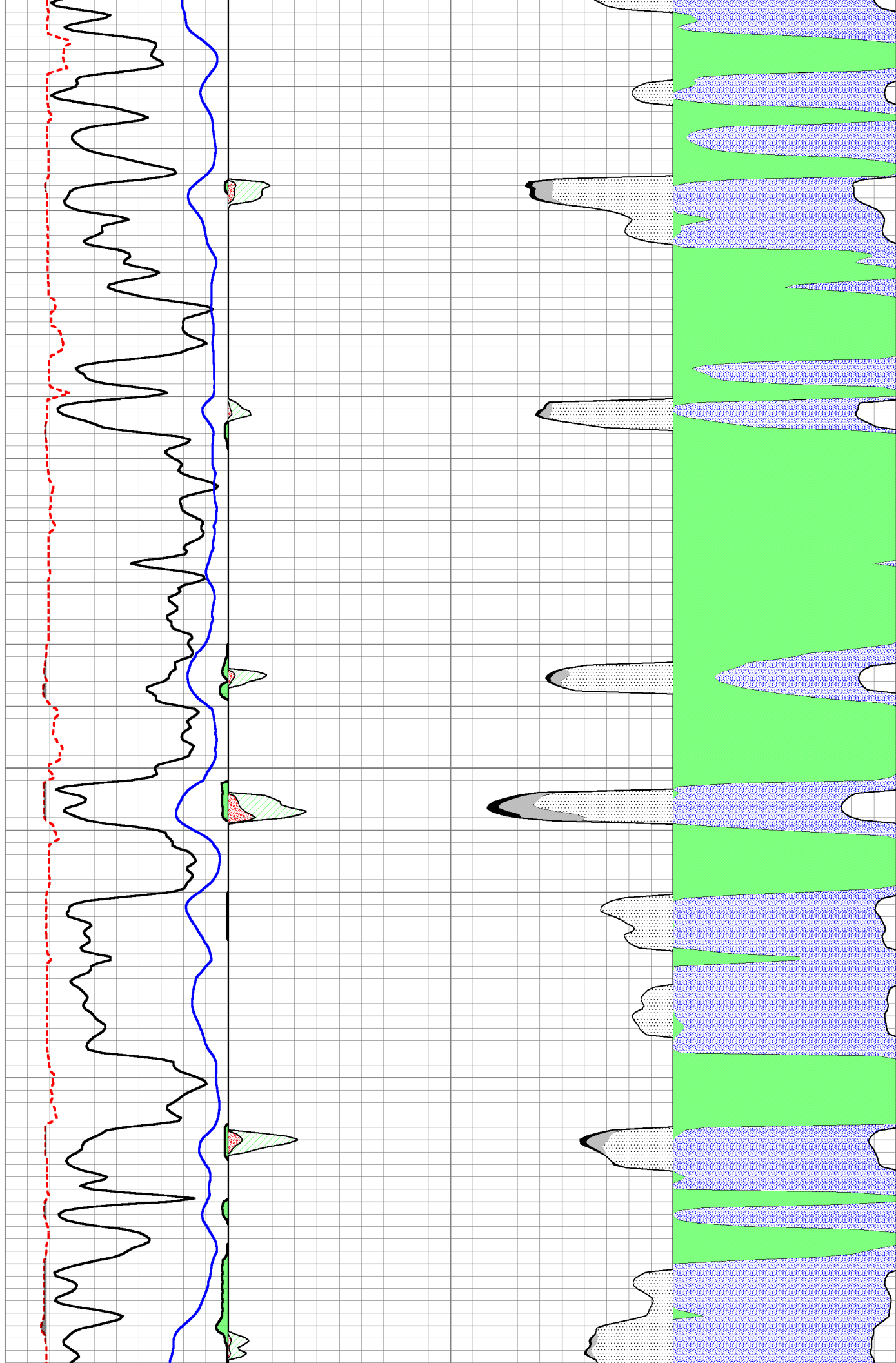


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2550

2600

2650



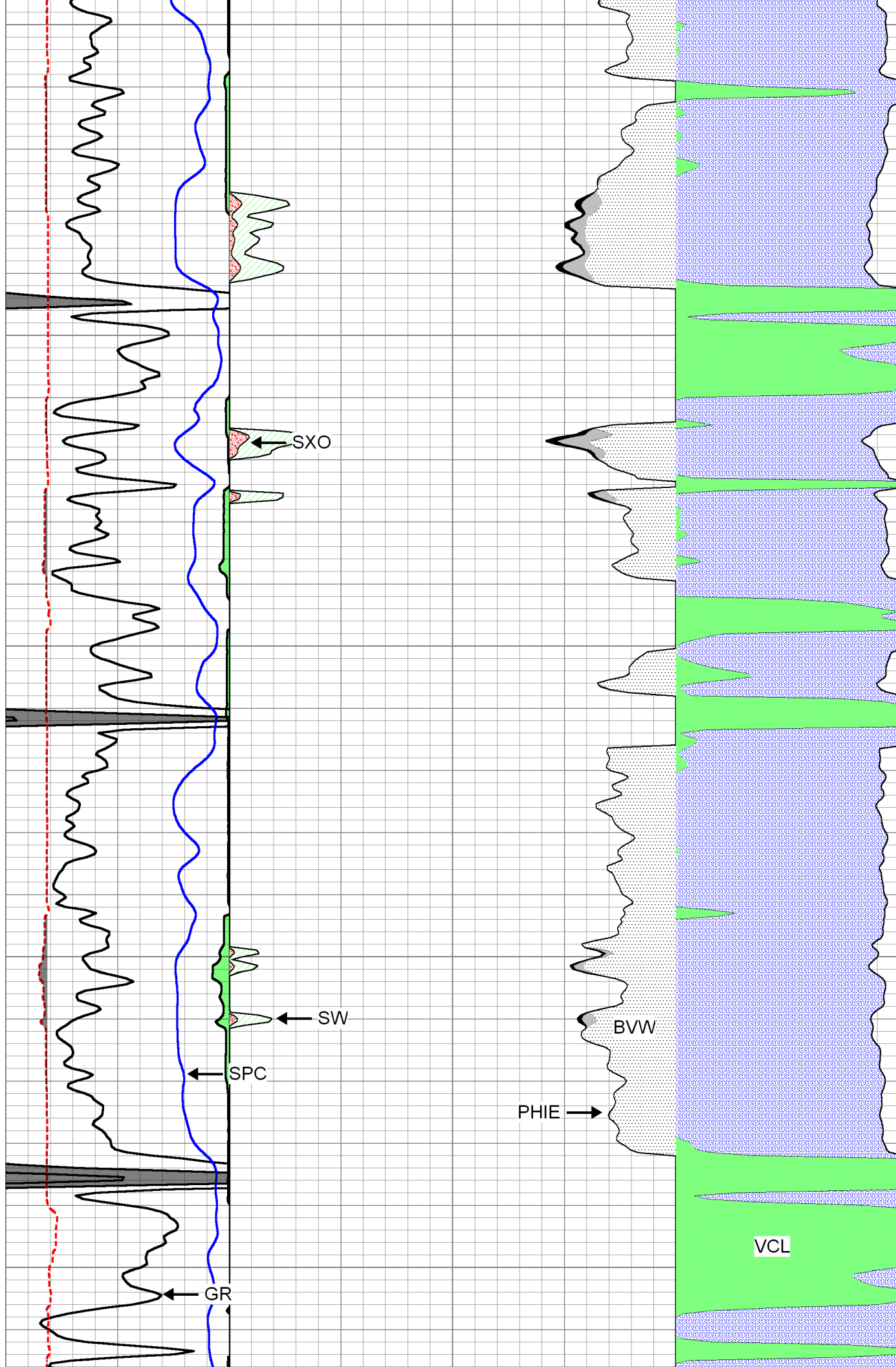
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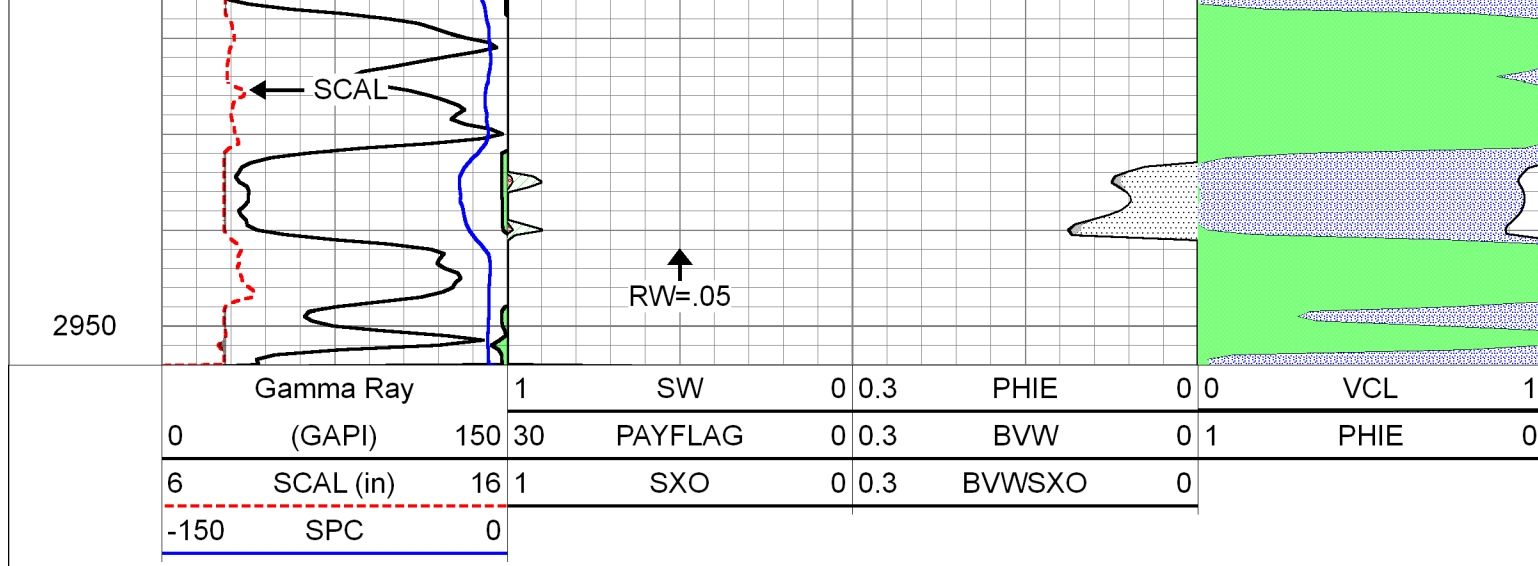
2750

2800

2850

2900







Company	BRUCE OIL COMPANY, LLC
Well	ANNE MARIE #1
Field	UNKNOWN
County	OSBORNE
State	KANSAS