



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1227349  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1227349

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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810 E 7TH  
PO Box 92  
EUREKA, KS 67045  
(620) 583-5561



**Cement or Acid Field Report**

Ticket No. **1704**

Foreman Shannon Feck

Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State
9-20-14	1028	Reeves B1	15	31S	9E	E1K	KS
Customer <u>Lone Wolf Oil</u>			Safety Meeting	Unit #	Driver	Unit #	Driver
Mailing Address <u>Box 241</u>			SF	105	Rick L		
City <u>Moline</u>			RM	110	Allen G		
State <u>KS</u>	Zip Code <u>67353</u>		AL	113	Joey K		
			RL	4-11a	Russ m		
			JK				

Job Type L/S Hole Depth 2900' Slurry Vol. 166 Bbl + 35 Bbl Tubing \_\_\_\_\_  
 Casing Depth 2646.23 6L Hole Size 7 7/8 Slurry Wt. 12.8-13.6 Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2 @ 15.50# Cement Left in Casing 3.83' Water Gal/SK 7.7 + 9.0 Other \_\_\_\_\_  
 Displacement 6 1/4 Bbl Displacement PSI 750 Bump Plug to 1350 BPM Displace @ 5 BPM

Remarks: Safety meeting. Set packer shoe @ 1250 psi w/ 10 Bbl 4/20, mixed 225 SKS 60/40 pozmix cement w/ 6% gel & 2# phenoseal/sk as our lead cement. Tailed in with 100 SKS thickset cement w/ 5# kol-seal/sk & 2# phenoseal/sk. Shut down wash out pump & lines. displace w/ 6 1/4 Bbl 1120. Good circulation @ all times. Final pumping pressure of 750 psi, bumped plug to 1350 psi. Plug & float held. rig down. Job complete.

Centralizers on # 1, 3, 6, 19, 27, 32 Packets on # 5, 20, 33.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	1	Pump Charge	1050.00	1050.00
C107	35	Mileage	3.95	138.25
C201	100 SKS	Thickset Cement	19.50	1950.00
C207	500#	Kol-Seal @ 5#/sk	.45	225.00
C208	200#	Phenoseal @ 2#/sk	1.25	250.00
C203	225 SKS	60/40 pozmix Cement	12.75	2868.75
C206	1160#	gel @ 6%	.20	232.00
C208	450#	Phenoseal @ 2#/sk	1.25	562.50
C108A	554 9.6	Ton mileage bulk Truck x 2	m/c x 2	690.00
C604	3	5 1/2 cement basket	225.00	675.00
C504	6	5 1/2 Centralizers	48.00	288.00
C752	1	5 1/2 Type A packer shoe	1400.00	1400.00
C421	1	5 1/2 Latch down plug	230.00	230.00
C790	1	Thread lock kit	30.00	30.00
<u>Thank you Shannon &amp; crew</u>				
			Sub Total	\$10,589.50
			Sales Tax	622.85
			Total	\$11,212.35

Authorization \_\_\_\_\_ Title \_\_\_\_\_ Total \_\_\_\_\_

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. 1792  
 Foreman Kevin McCoy  
 Camp EUREKA

Date	Cust. ID #	Lease & Well Number		Section	Township	Range	County	State
10-1-14	1028	Reeves B1		15	315	9E	ELK	KS
Customer <u>LONE WOLF OIL</u>				Safety Meeting Km CB JS	Unit #		Driver	
Mailing Address <u>Box 241</u>					102		Chris B.	
City <u>Moline</u>					112		John S.	
State <u>KS</u>		Zip Code <u>67353</u>						

Job Type Topoutside Hole Depth 2900' KB Slurry Vol. \_\_\_\_\_ Tubing 1"  
 Casing Depth 2646.23' G.L. Hole Size 7 7/8 Slurry Wt. \_\_\_\_\_ Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 5 1/2 Cement Left in Casing \_\_\_\_\_ Water Gal/SK \_\_\_\_\_ Other \_\_\_\_\_  
 Displacement \_\_\_\_\_ Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety Meeting: RAN & WASH DOWN 1" Tubing DOWN ANNULUS OF 5 1/2 CASING. TAG FIRM Cement @ 614' Below G.L. MIXED 100 SKS 60/40 Pozmix Cement w/ 4% Gel Good Cement to SURFACE. PULL 1" Tubing Job Complete. Rig down.

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 101	1	Pump Charge	840.00	840.00
C 107	0	Mileage in field	0	N/c
C 203	100 SKS	60/40 Pozmix Cement	12.75	1275.00
C 206	350 #	Gel 4%	.20 #	70.00
C 108 A	4.3 Tons	Tow Mileage	M/c	345.00
C 116	614'	1" RENTAL, ELEVATORS, WASH HEAD	.30'	184.20
<u>THANK YOU</u>			Sub Total	2714.20
<u>M</u>			Sales Tax	109.34
			7.15%	

Authorization Witnessed By Rob Wolfe Title \_\_\_\_\_ Total 2823.54

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7<sup>TH</sup>  
 PO Box 92  
 EUREKA, KS 67045  
 (620) 583-5561



**Cement or Acid Field Report**  
 Ticket No. **1657**  
 Foreman Rick Ledford  
 Camp Eureka Ks

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State		
9-15-14	1028	Reeves B1	15	315	9E	EIK	Ks		
Customer	Mailing Address	City	State	Zip Code	Safety Meeting	Unit #	Driver	Unit #	Driver
Lone Wolf Oil	Box 241	Moline	Ks	67353	KL TB SU	102	Chris B.		
						110	Scott W.		

Job Type surface Hole Depth 217' Slurry Vol. 31 Bbl Tubing \_\_\_\_\_  
 Casing Depth 210' Hole Size 12 1/4" Slurry Wt. 14.84 Drill Pipe \_\_\_\_\_  
 Casing Size & Wt. 8 5/8 Cement Left in Casing 15' Water Gal/SK 6.5 Other \_\_\_\_\_  
 Displacement 13 Bbl Displacement PSI \_\_\_\_\_ Bump Plug to \_\_\_\_\_ BPM \_\_\_\_\_

Remarks: Safety meeting - Rig up to 8 5/8" casing. Break circulation w/ 5 Bbl fresh water mixed 115 sacks class A cement w/ 37% cacl2 + 2% gel @ 14.8" / gal. Displace w/ 13 Bbl fresh water. Shut casing in w/ good cement returns to surface = 7 Bbl slurry to pit. Job complete. Rig down.

"Thank You"

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	840.00	840.00
C107	35	Mileage	3.95	138.25
C200	115 sacks	class A cement	15.00	1725.00
C205	325 #	37% cacl2	.60	195.00
C206	215 #	2% gel	.20	43.00
C108A	5.41	tan mileage bulk tax	m/c	345.00
			subtotal	3286.25
			Sales Tax	140.35
				7.1596

Authorization witnessed by Rob Wolf Title Owner Total 3426.60

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



Pioneer Energy Services

## Computer Processed Interpretation

15-049-22,600-00-00

API No.

Company **Lone Wolf Oil**

Well **Reeves #B-1**

Field **Logsdon**

County **Elk** State

**Kansas**

Location **1980' FNL & 200' FWL**

Other Services  
DIL/CNL/CDL  
MEL

Sec: **15** Twp: **31S** Rge: **9E**

Elevation

Permanent Datum **Ground Level** Elevation **1180**

K.B. **1186**

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

D.F. **1180**

Drilling Measured From **Kelly Bushing**

G.L. **1180**

Date Recorded **9/19/2014**

Depth Logger **2643**

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 **Joe Baker**

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

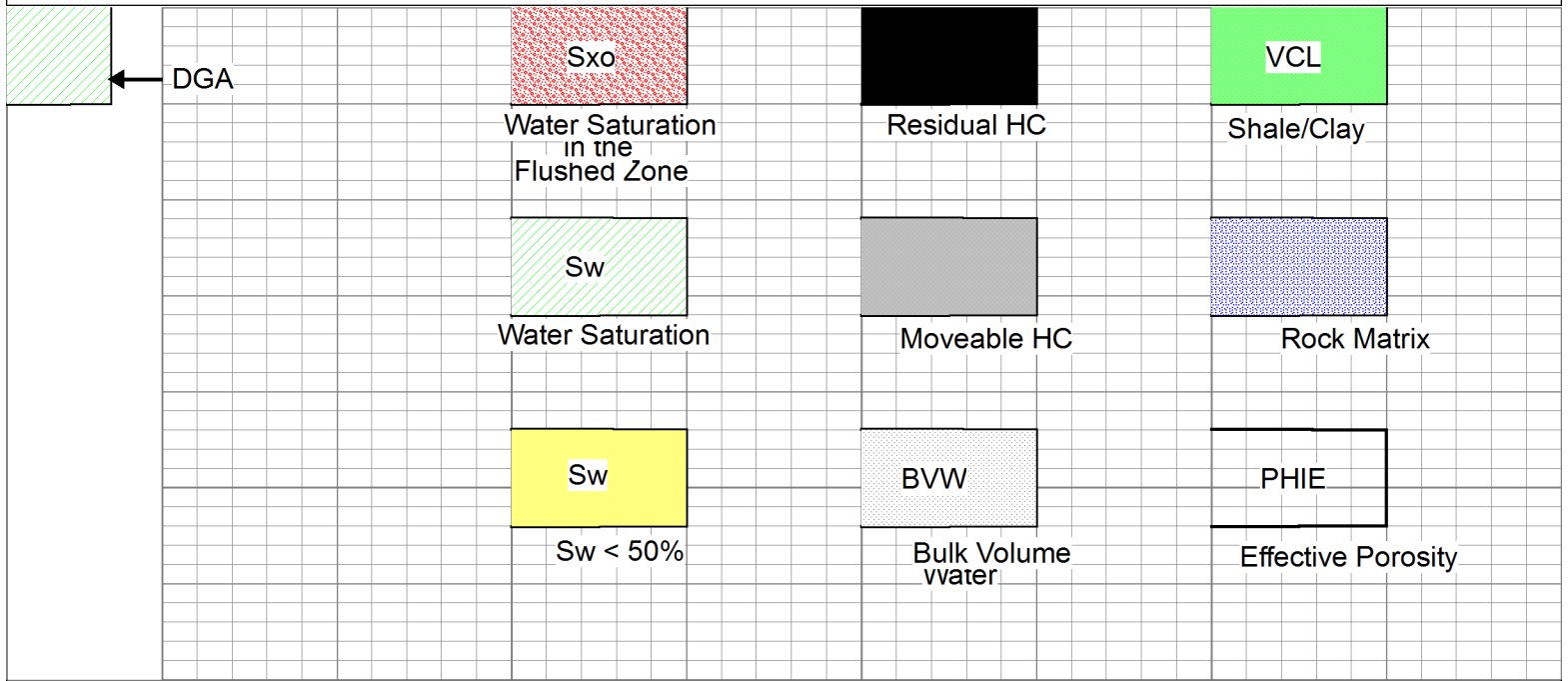
Thank you for using Pioneer Energy Services  
[www.pioneer.com](http://www.pioneer.com)  
 785 625 3858

Moline KS, W to 7 Rd,  
 1/2 S, E Into

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

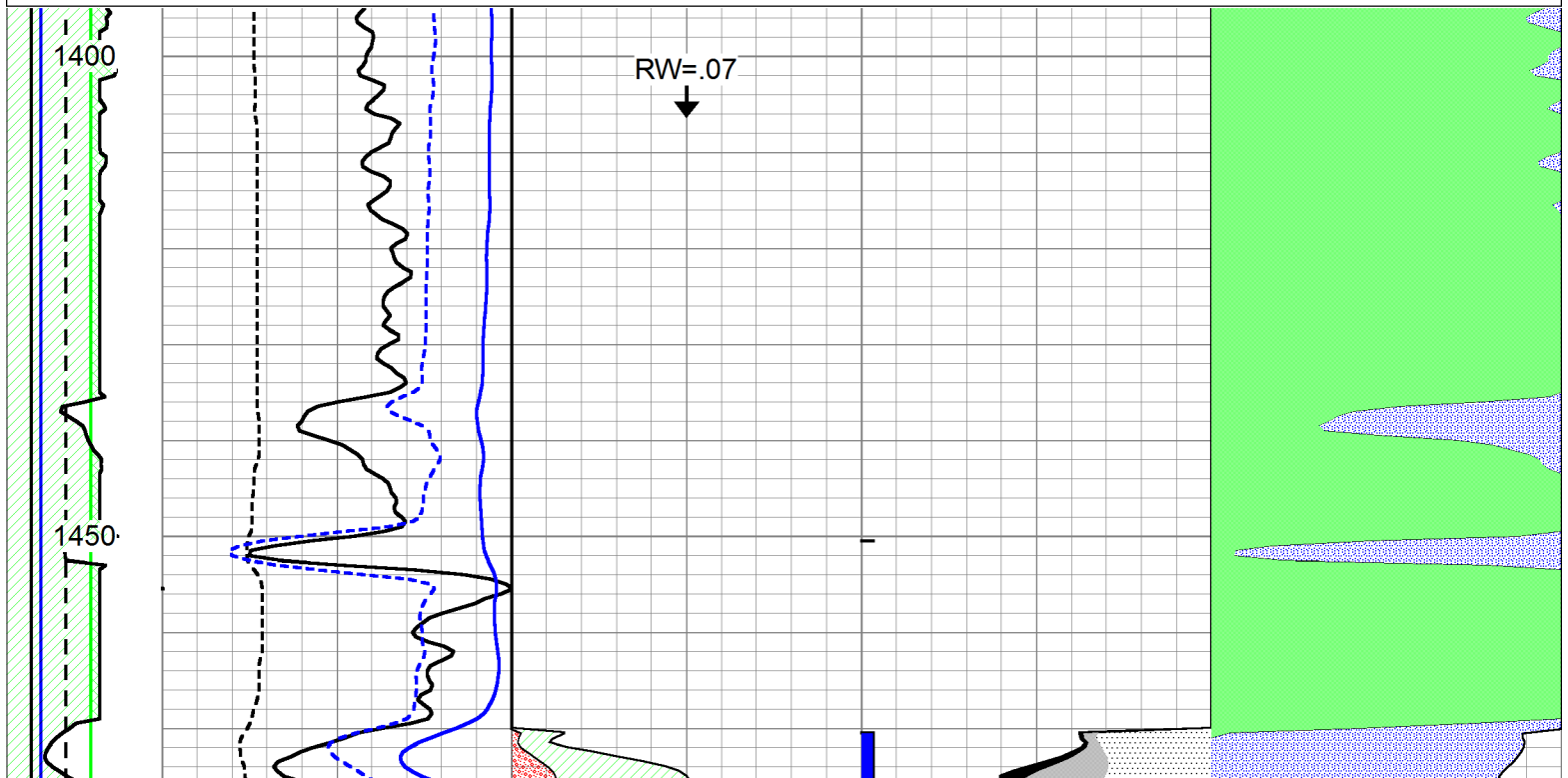
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 Charted by:

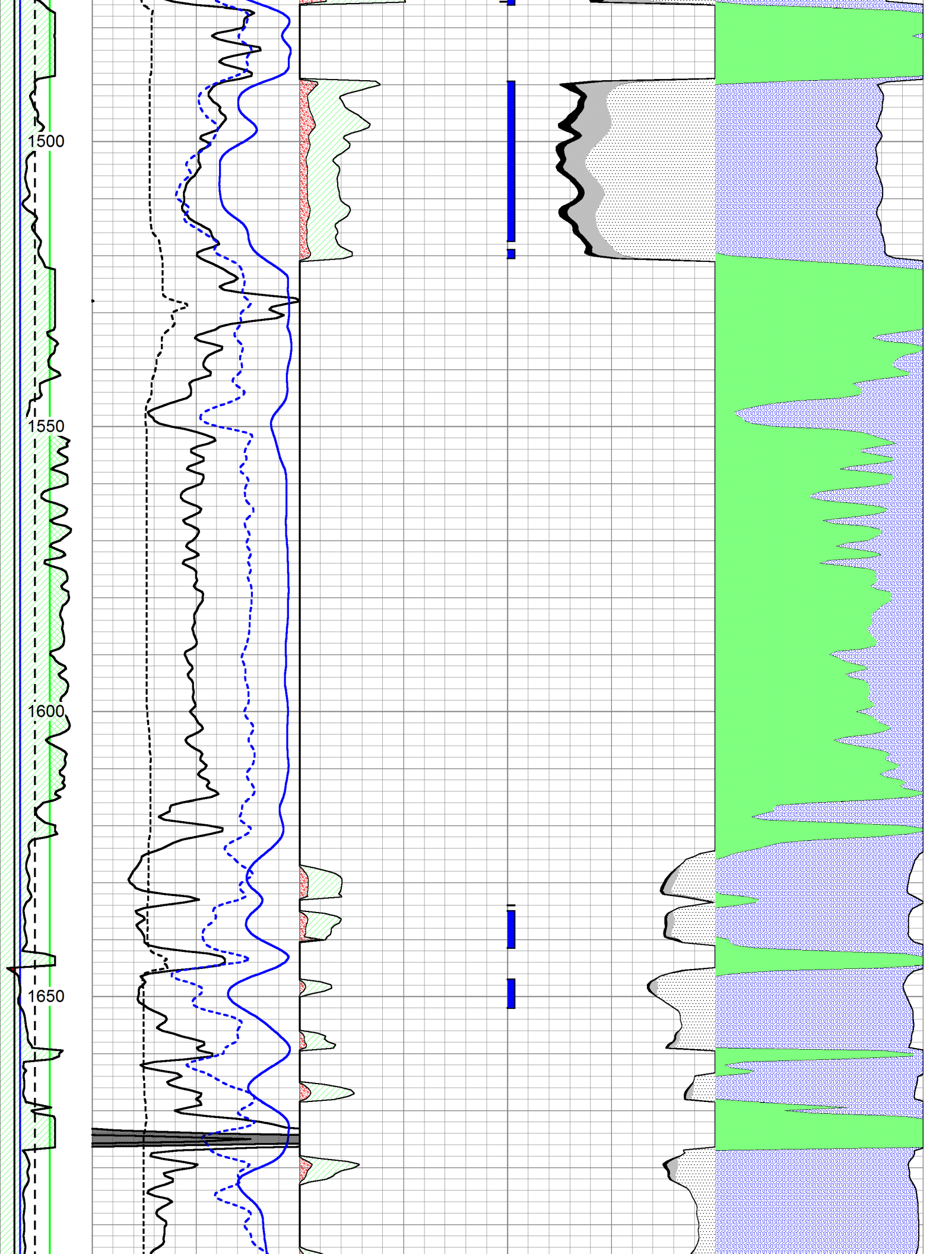
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 Depth in Feet scaled 1:240



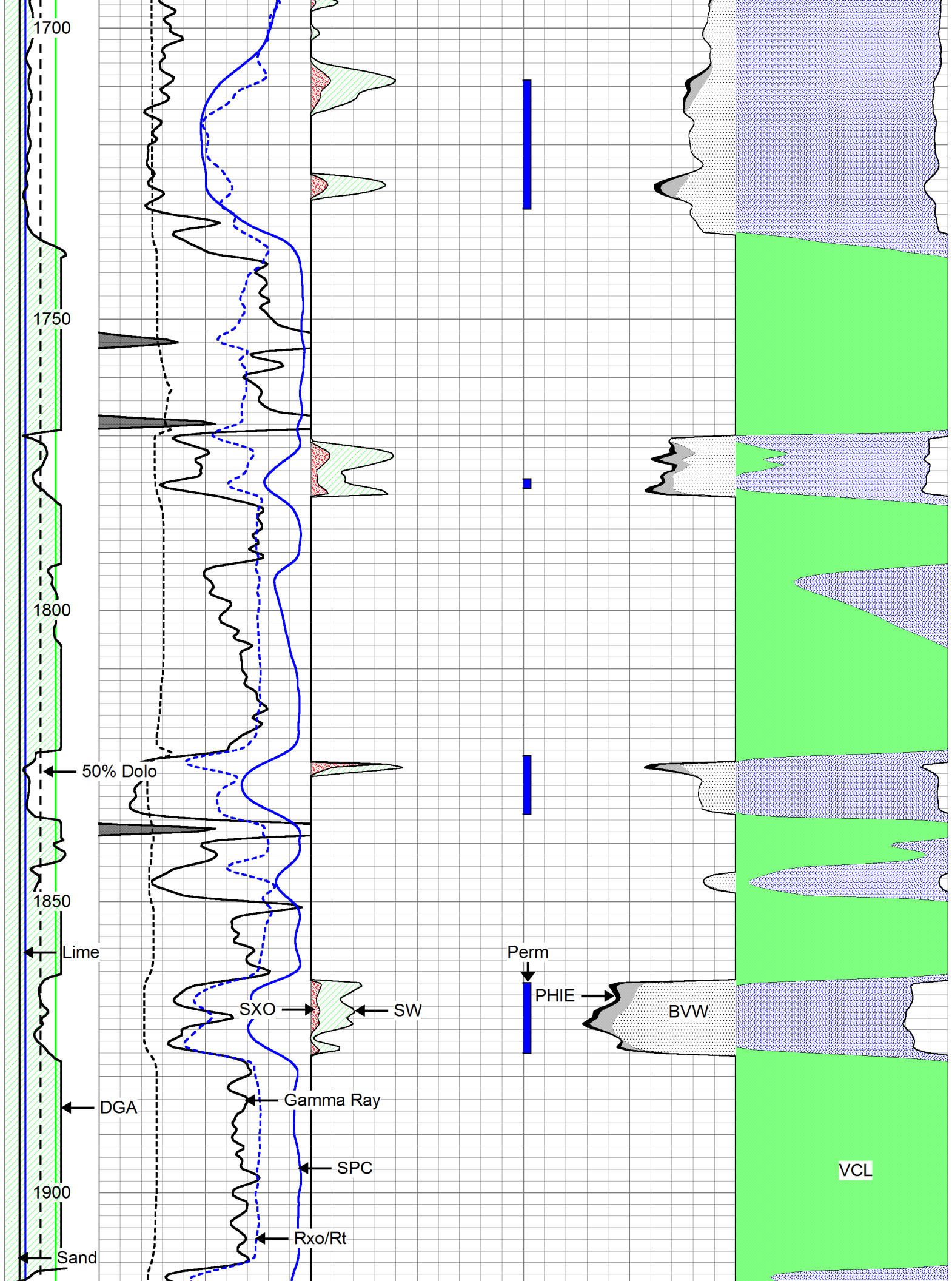
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 Charted by: Depth in Feet scaled 1:240

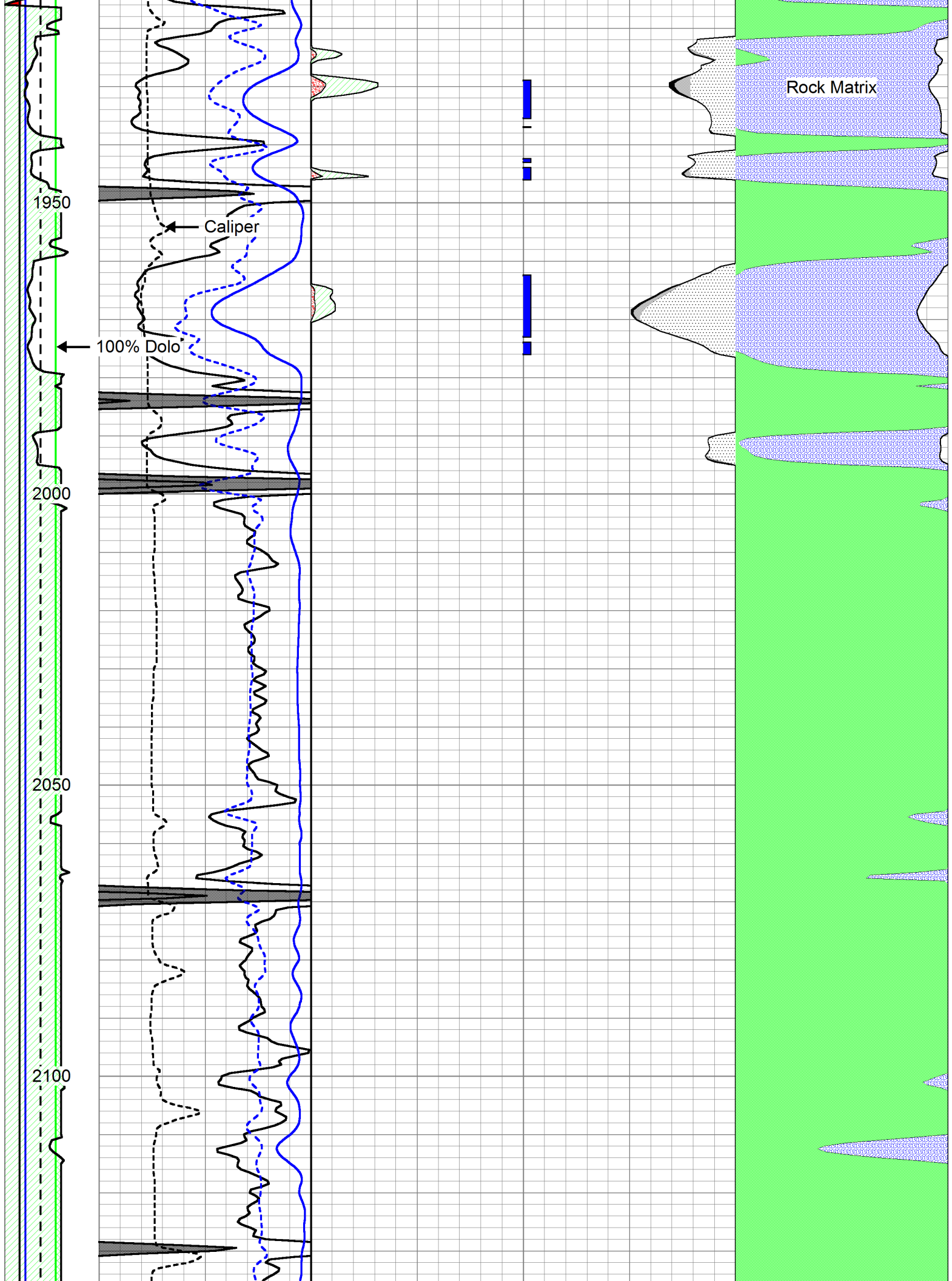
DGA	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1	
2.6	3.1	6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		-150	SPC (mV)	0	1	SXO	0	0	PERM	30			
							0.3	BVWSXO	0				

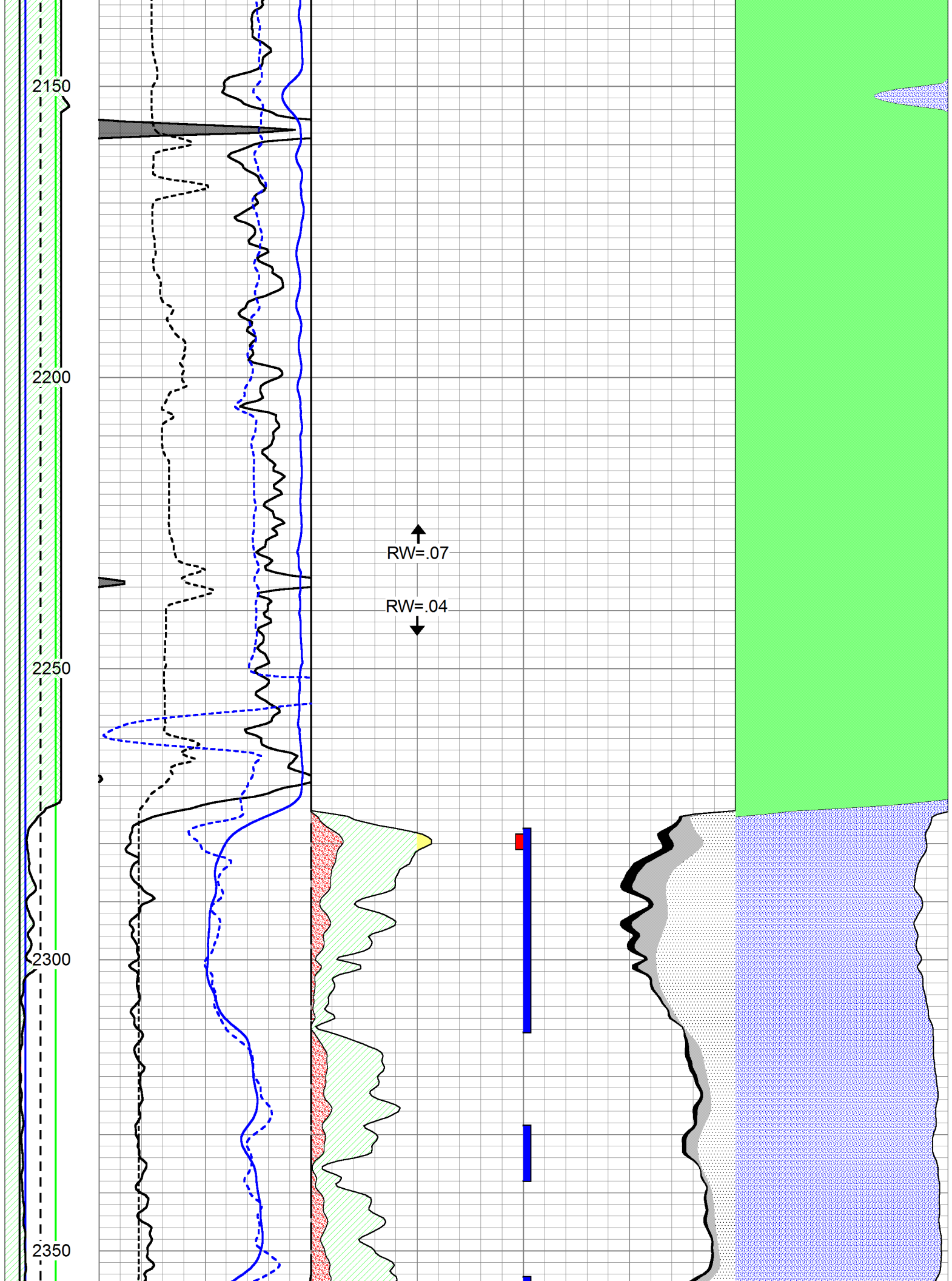


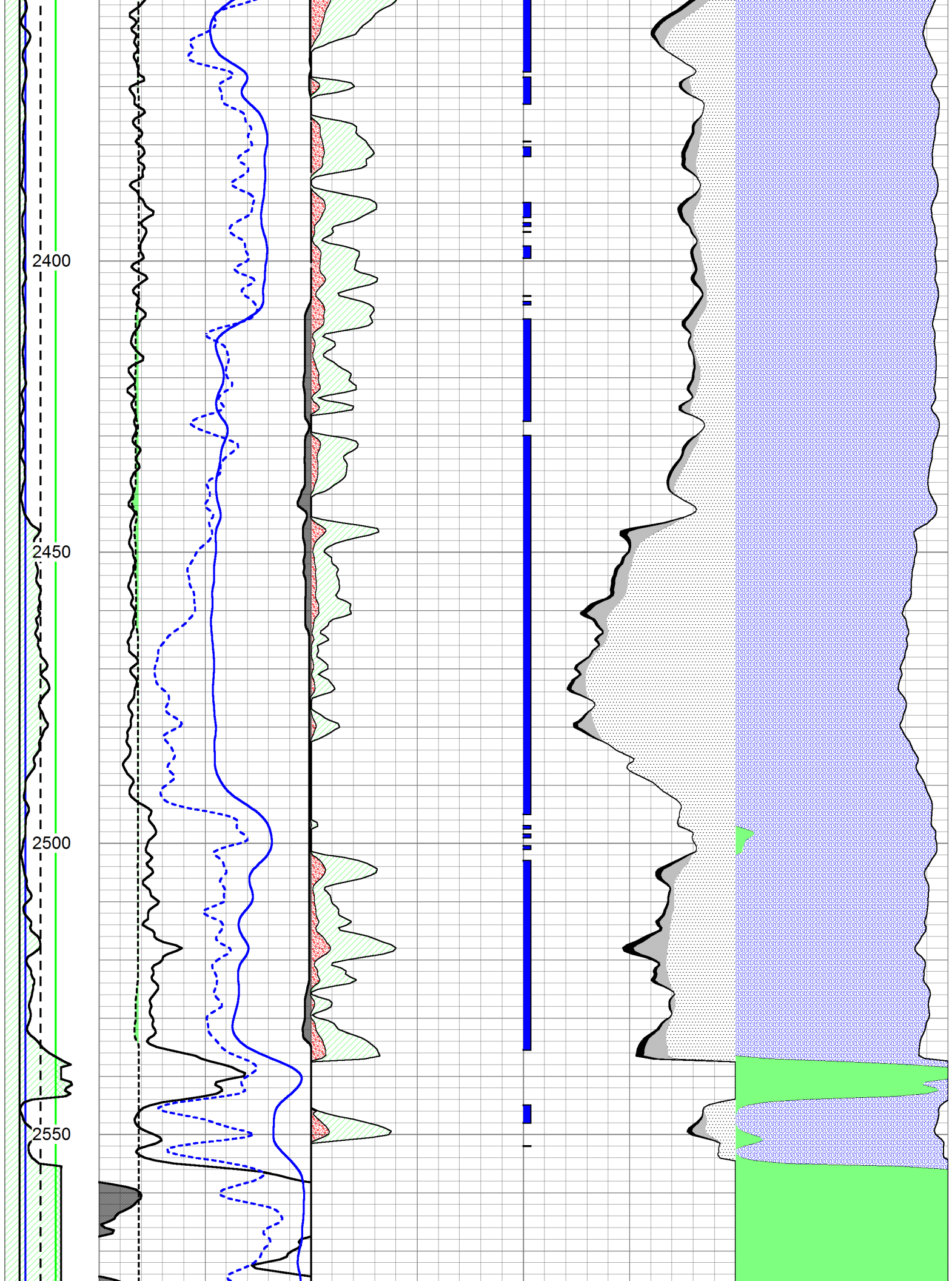


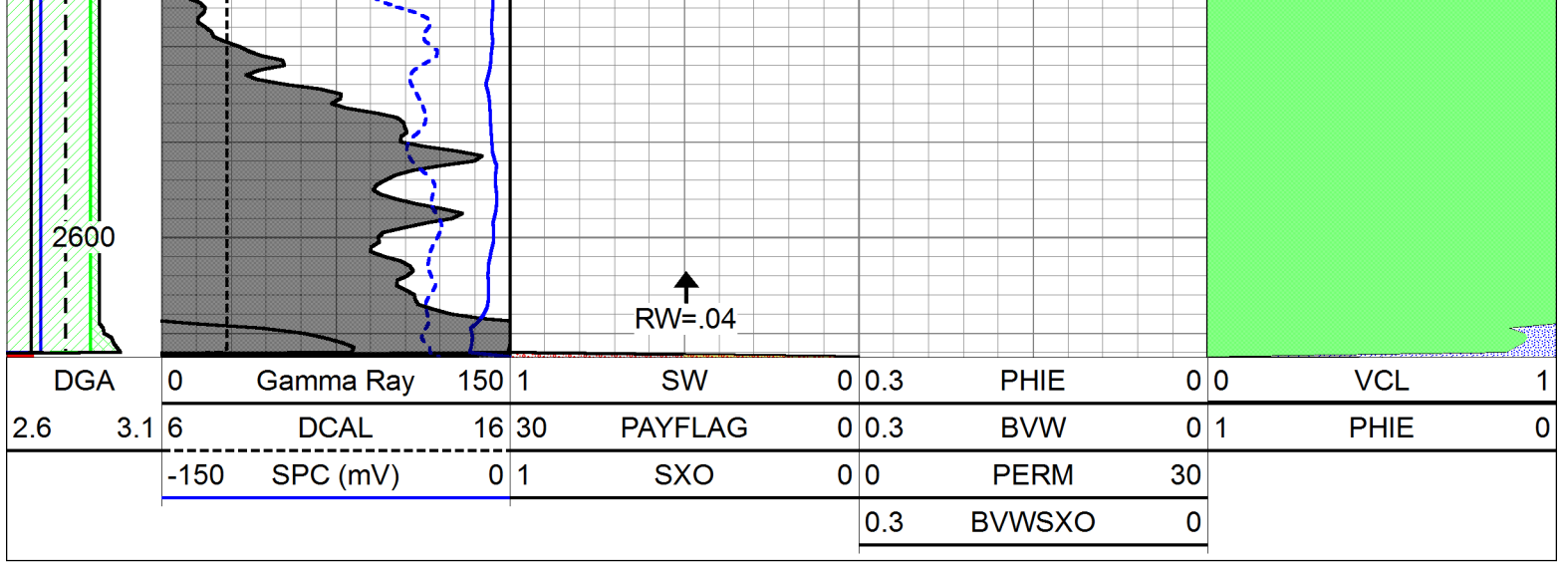












DGA	0	Gamma Ray	150	1	SW	0	0.3	PHIE	0	0	VCL	1	
2.6	3.1	6	DCAL	16	30	PAYFLAG	0	0.3	BVW	0	1	PHIE	0
		-150	SPC (mV)	0	1	SXO	0	0	PERM	30			
							0.3	BVWSXO	0				

**WellSight Systems**  
**Scale 1:240 (5"=100') Imperial**  
**Measured Depth Log**

Well Name: Reeves B1  
Location: Section 15 - T31S - 9E  
License Number: API# 15-049-22600  
Spud Date:  
Surface Coordinates: 1980' FNL & 200' FWL

Region: Elk County  
Drilling Completed:  
LAT 37.3545920  
LONG -96.4161769

Bottom Hole Coordinates:  
Ground Elevation (ft): 1180'      K.B. Elevation (ft): 1186'  
Logged Interval (ft): 1400'      To: 2622'      Total Depth (ft): RTD 2650', LTD 2643'  
Formation: Arbuckle  
Type of Drilling Fluid: Chemical/Polymer/gel

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: Lone Wolf Oil Co.  
Address: Box 241  
Moline, KS 67353  
KLN 31119

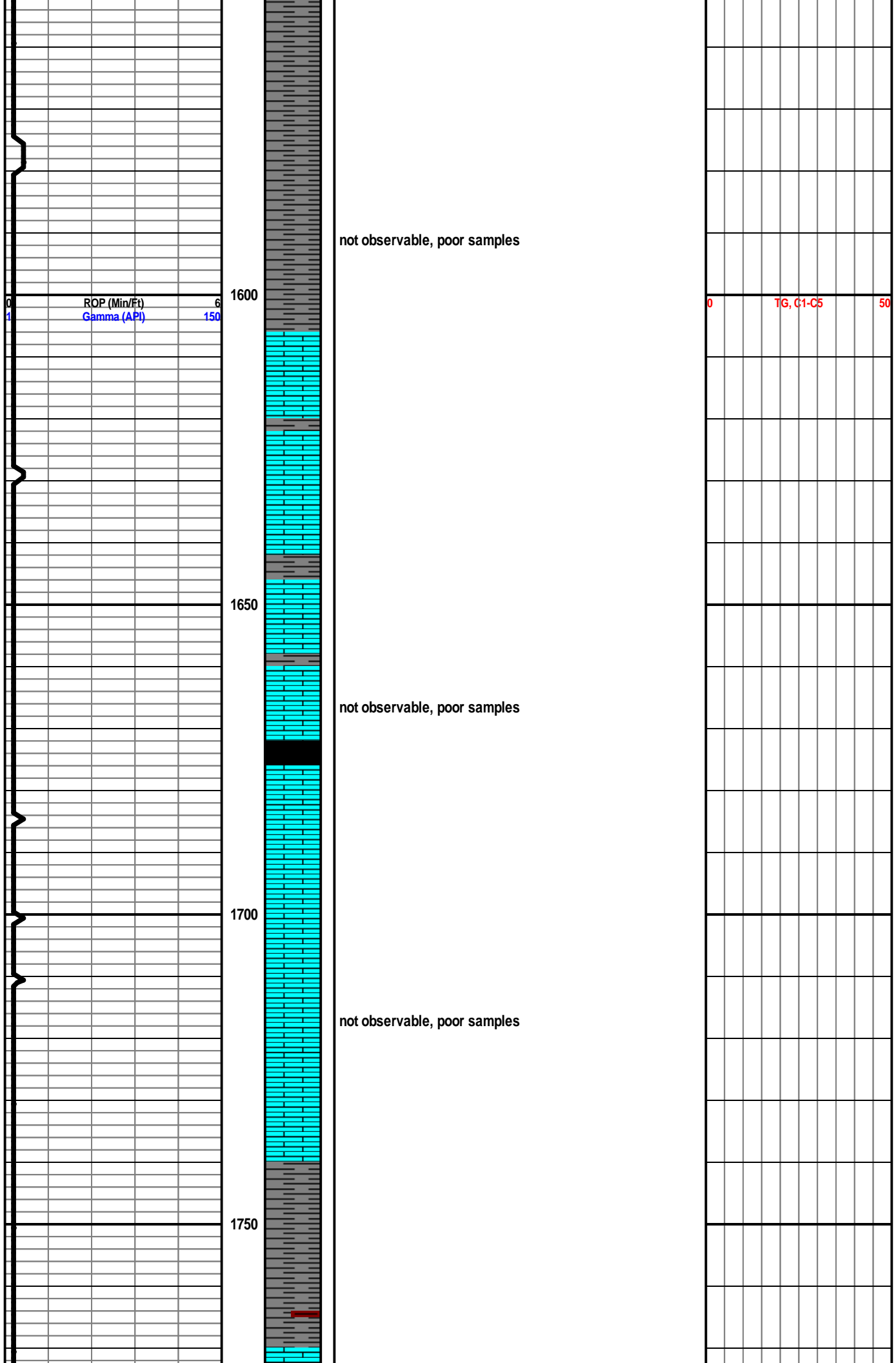
**GEOLOGIST**

Name: Harley Sayles  
Company: Promontory, LLC.  
Address: 401 E Douglas Suite 515 A  
Wichita, KS 67202









not observable, poor samples

ROP (Min/Ft)  
Gamma (API)

1600

TG, C1-C5

1650

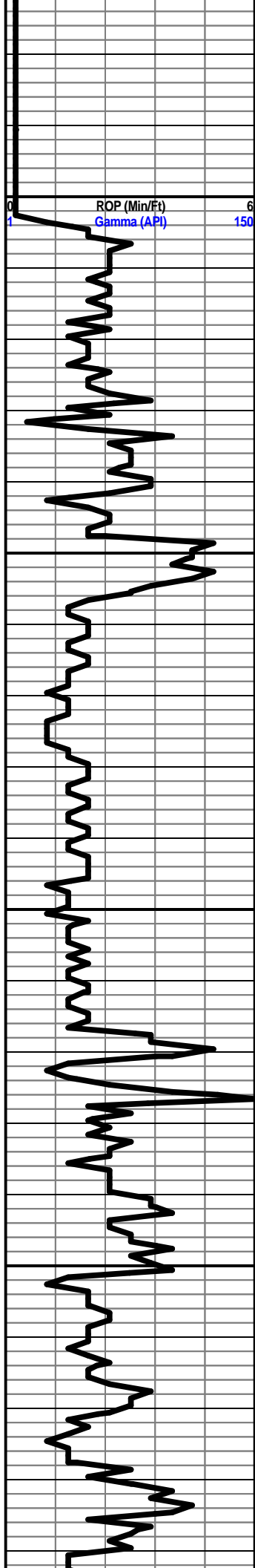
not observable, poor samples

1700

not observable, poor samples

1750

not observable, poor samples



1800

1850

1900

1950

Sh., dk gry-reddish brn

Sh., a.a.

Sh., gy-dk gy- reddish brn

**Altamont 1832 (-646)**

Ls., tan-lt brn, oolitic, barren

Sh., blk

Ls., tan, slt oolitic

Sh., gy-reddish brn, sndy

Ss., gy, fn grn, sb rd, mod wl srted, fri, barren, shly

Sh., gy-reddish brn, sndy

Sh., a.a.

Sh., gy-reddish brn

**Pawnee 1907 (-721)**

Ls., tan-dk tan, fn Xln, p oomoldic Por, FSFO on break, lt brn oil, good odor, few gas bubbles, par sat and stn, fri

Ls., a.a.

Sh., blk

Sh., gy-reddish brn

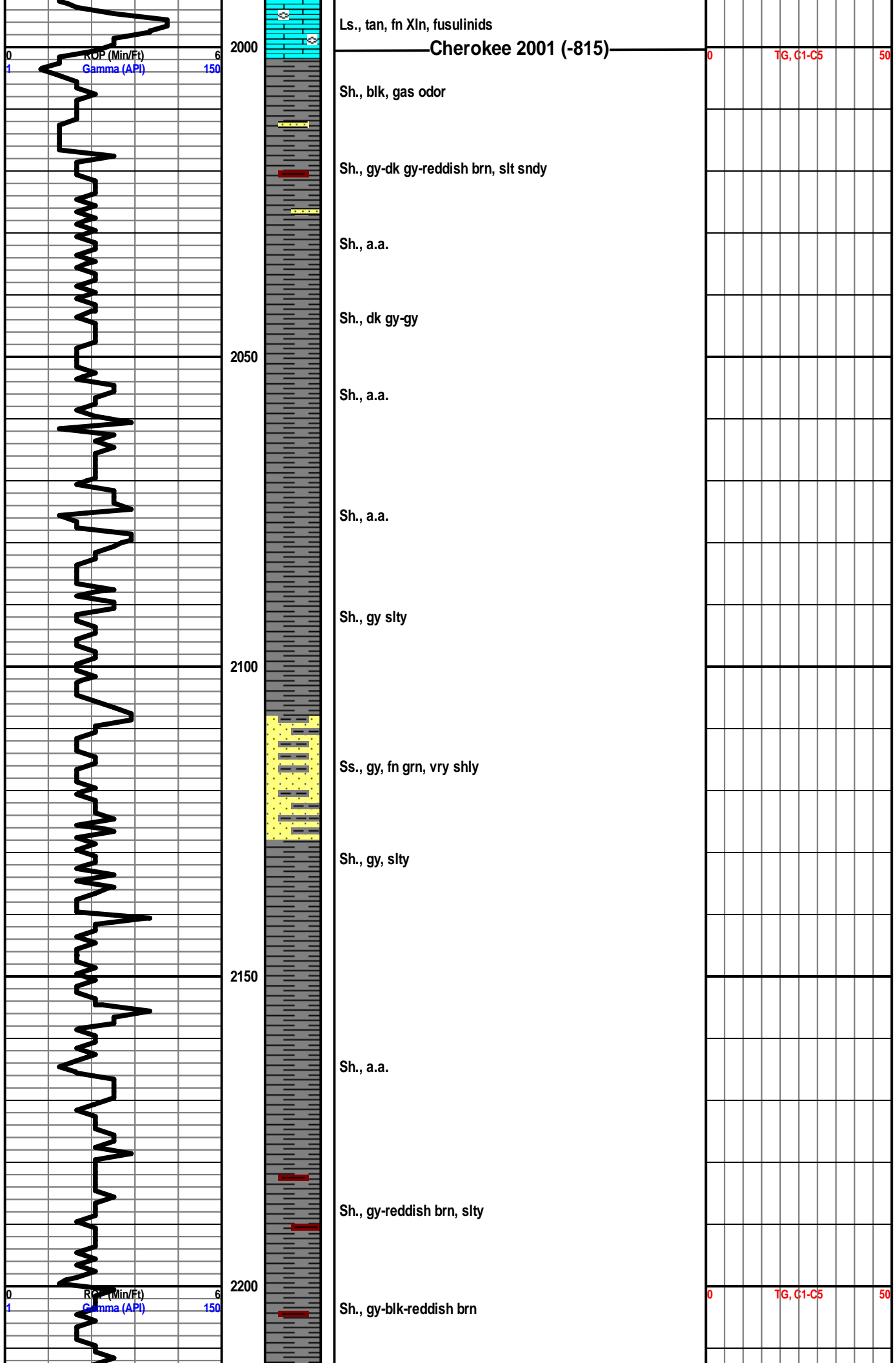
**Ft. Scott 1966 (-780)**

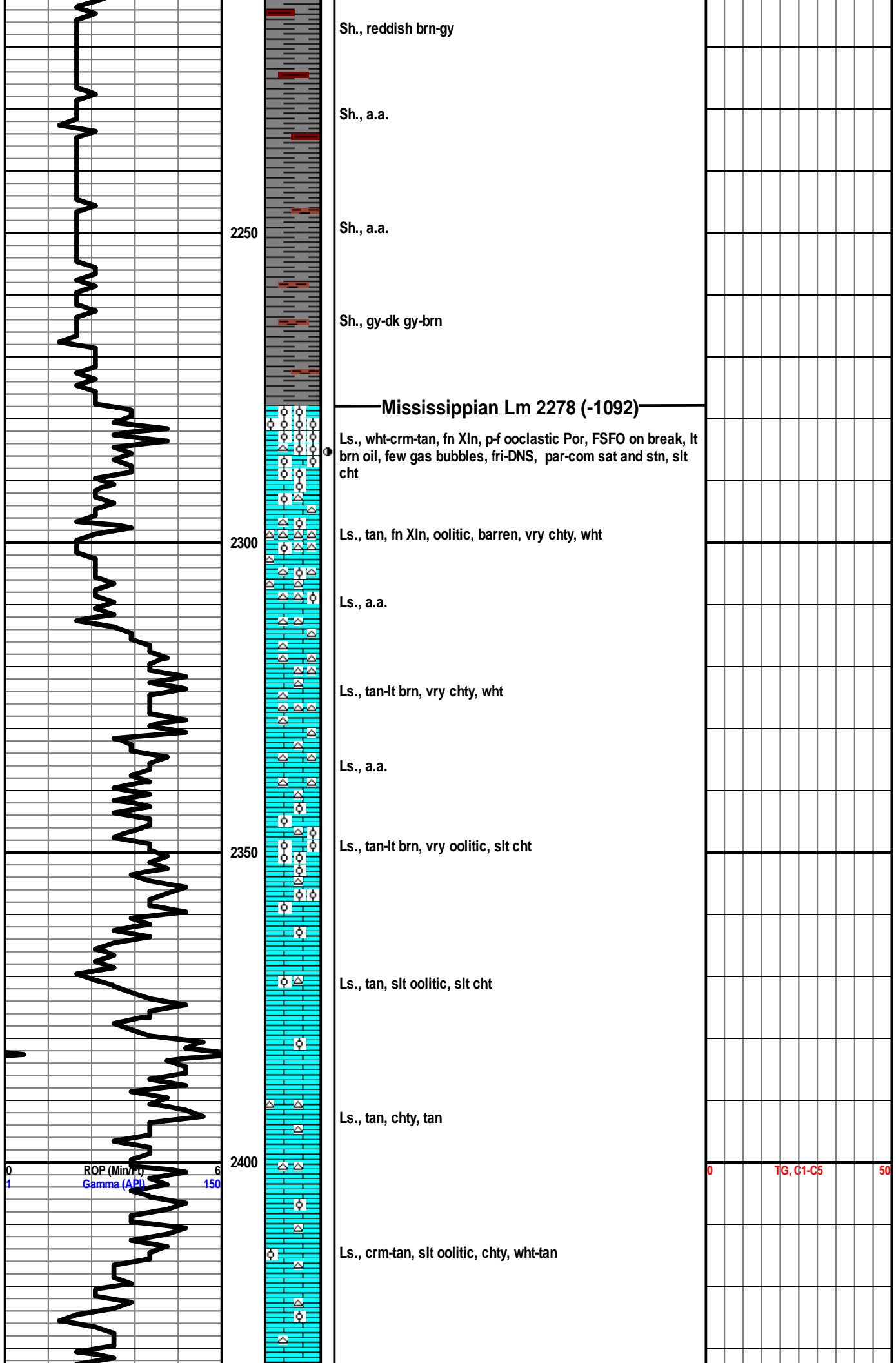
Ls., tan, fn Xln, p int Xln Por, p ooclastic Por, SSFO on break, lt brn oil, slt ofor, few gas bubbles, par sat and stn, fri-DNS

Sh., blk

Ls., tan-dk tan, fn-sub Xln, DNS

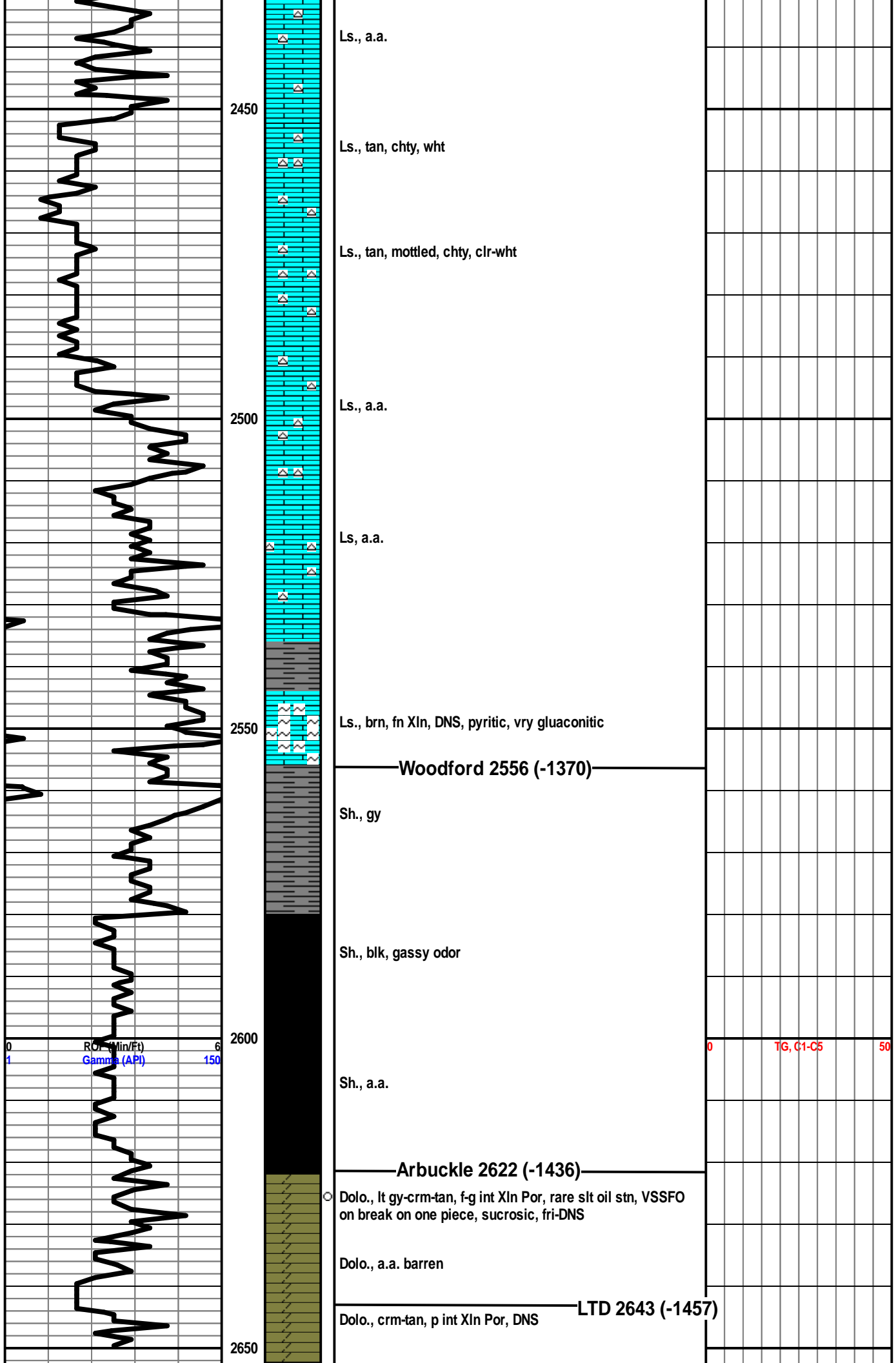
0 TG, C1-C5 50





ROP (Min/hr) 0 6  
Gamma (API) 1 150

0 TG, C1-C5 50



not observed, well deepened further after log was run

2700

2750

2800

2850

0 ROP (Min/Ft) 6  
1 Gamma (API) 150

0 TG, C1-C5 50

