PIONEER
Pioneer Energy Services

# Computer Processed Interpretation

Company CARMEN SCHMITT, INC.
Well GLEASON #1
Field HORACEK
County HODGEMAN State KANSAS

Location: API #: 15-083-21943-00-00
1390' FNL & 330' FEL
SEC 14 TWP 23S RGE 21W

Other Services
DIL/CNL/CDL

Permanent Datum GROUND LEVEL Elevation 2329'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2334'
D.F. N/A
G.L. 2329'

Company CARMEN SCHMITT, INC.
Well GLEASON #1
Field HORACEK
County HODGEMAN
State KANSAS

| | |
|---|---|
| Date Recorded | 9/13/2017 |
| Depth Logger | 4599' |
| | Curve Definitions |
| SW | Water Saturation |
| SXO | Water Saturation In The Flushed Zone |
| VCL | Volume Of Clay |
| PHIE | Density - Neutron Crossplot Shale Corrected |
| BVW | 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< 50 & DCAL< 11 |
| Recorded By | D. SCHMIDT |
| Witnessed By | BRAD RINE |
| Analysis By | DAN SCHMIDT |

<<< Fold Here >>>

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.

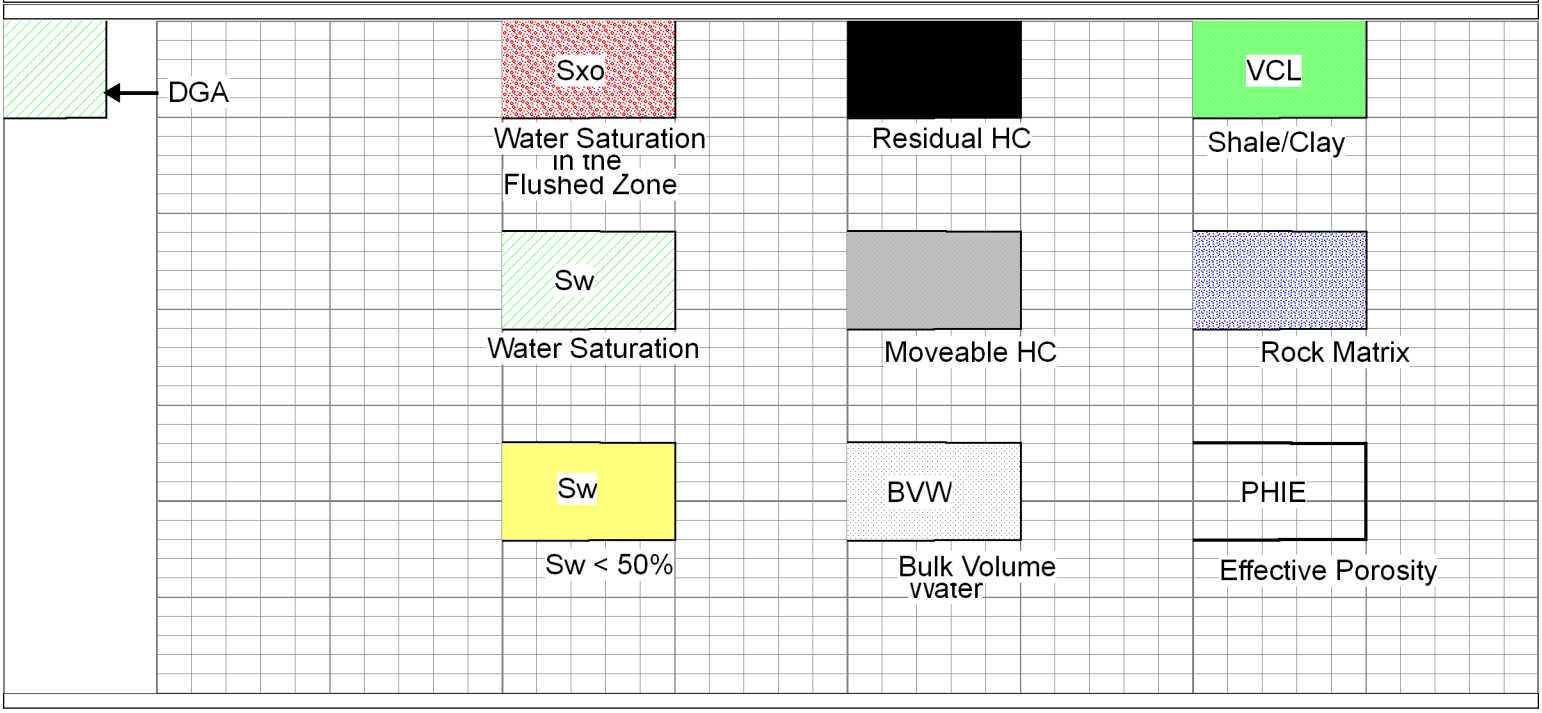
BURDETT,
10 SOUTH ON 340TH TO D RD, 4 WEST TO 235 RD, 1/2 NORTH,
WEST INTO

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

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

| Your Pioneer Energy Services Crew | This Log Record Was Witnessed By |
|---|---|
| Engineer: D. SCHMIDT | Primary Witness: BRAD RINE |
| Operator: | Secondary Witness: |
| Operator: | Secondary Witness: |
| Operator: | Secondary Witness: |

| | |
|---|---|
| Database File | 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 |

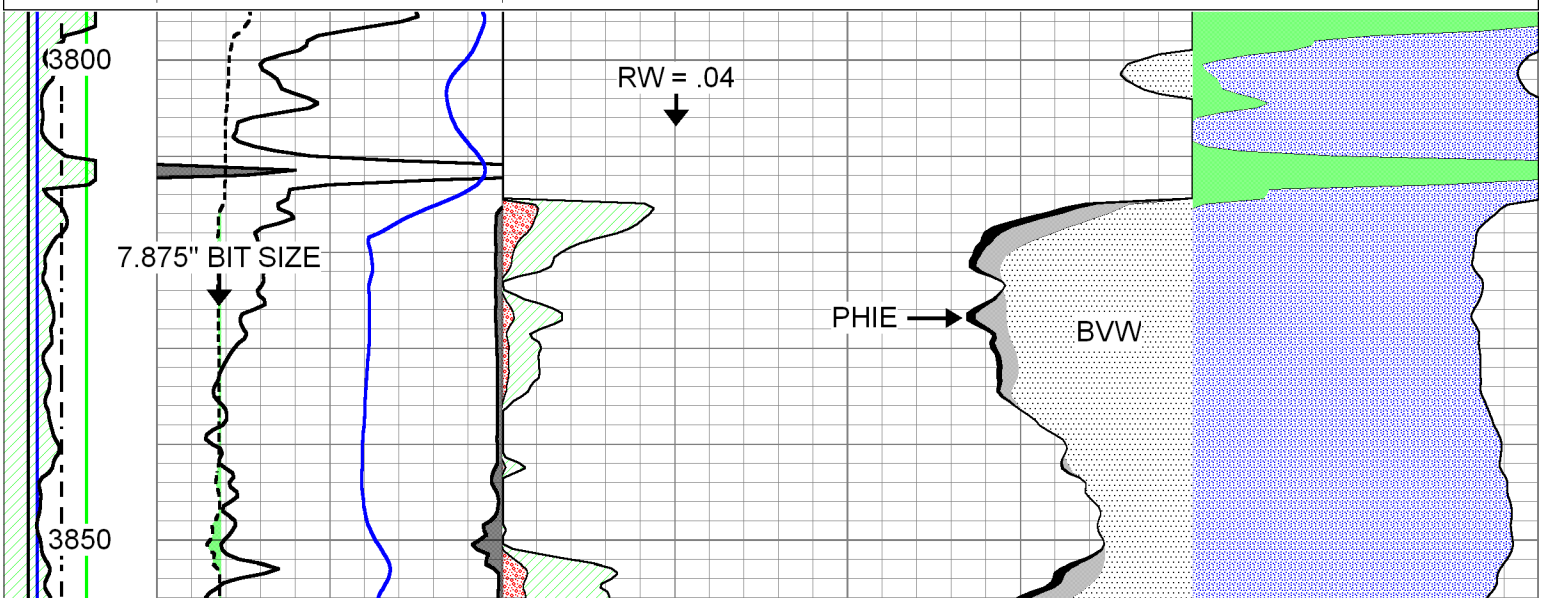


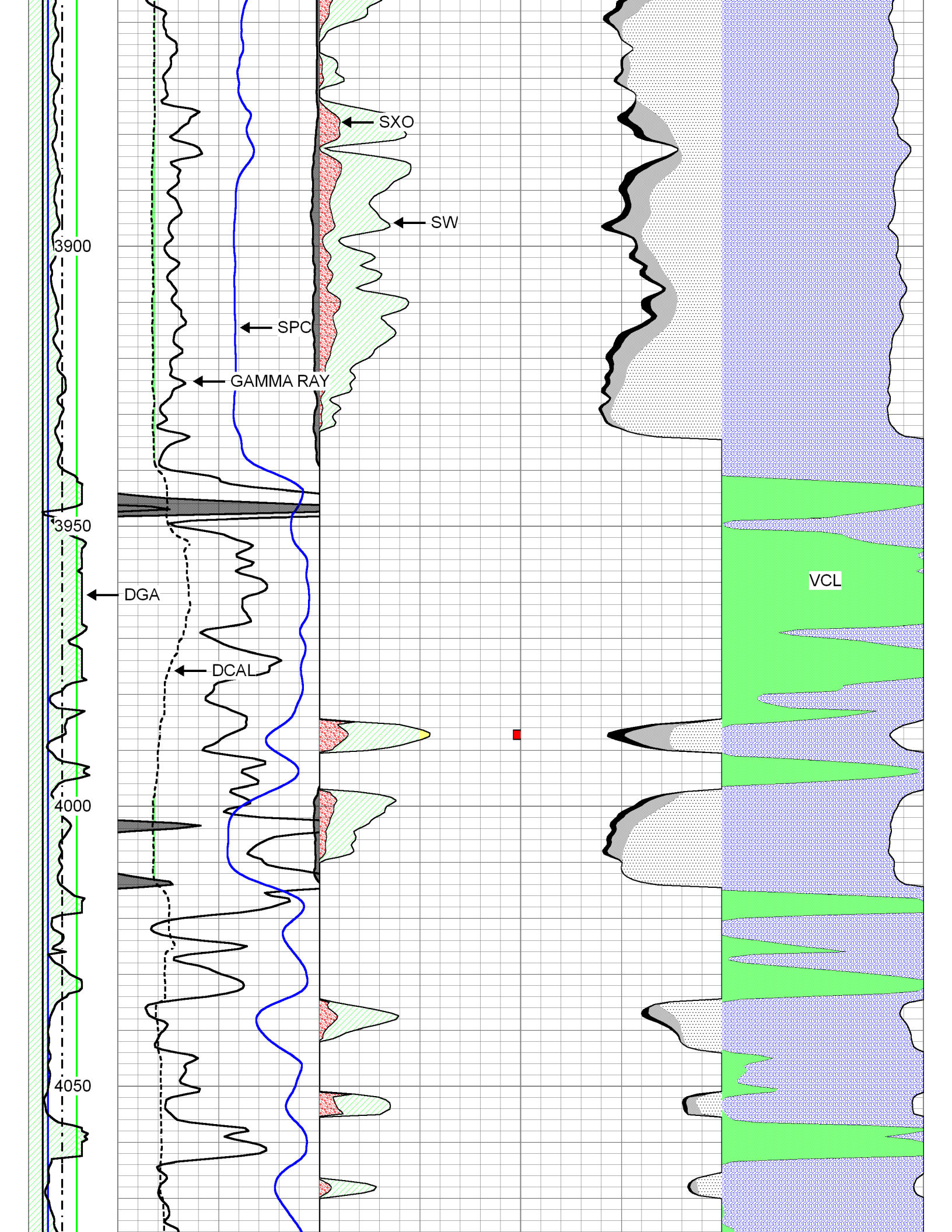

PIONEER
Pioneer Energy Services

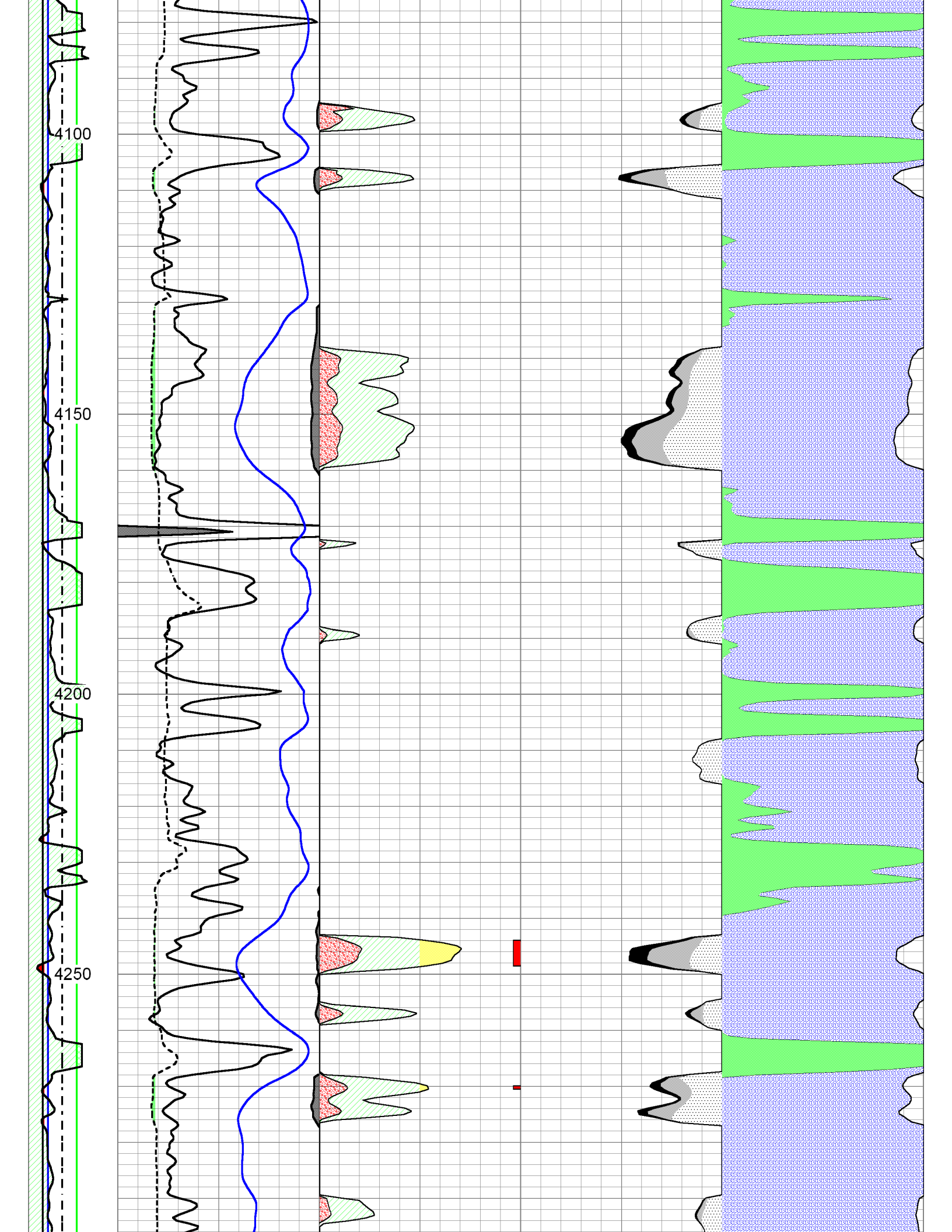
# CPI

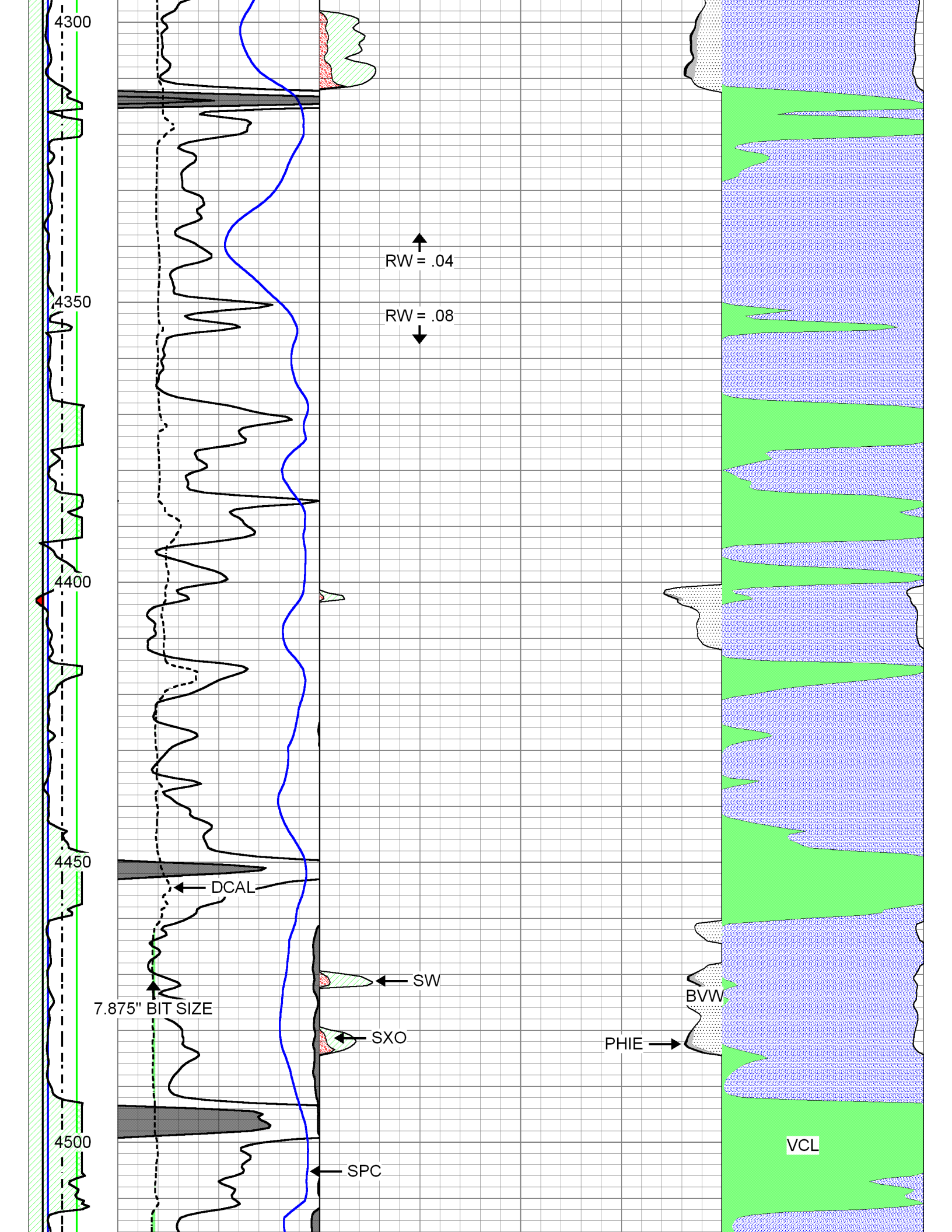
| | |
|---|---|
| Database File | carmen schmitt_gleason 1hd.db |
| Dataset Pathname | CPI/glcpi |
| Presentation Format | calc |
| Dataset Creation | Thu Sep 21 14:36:06 2017 |
| Charted by | Depth in Feet scaled 1:240 |

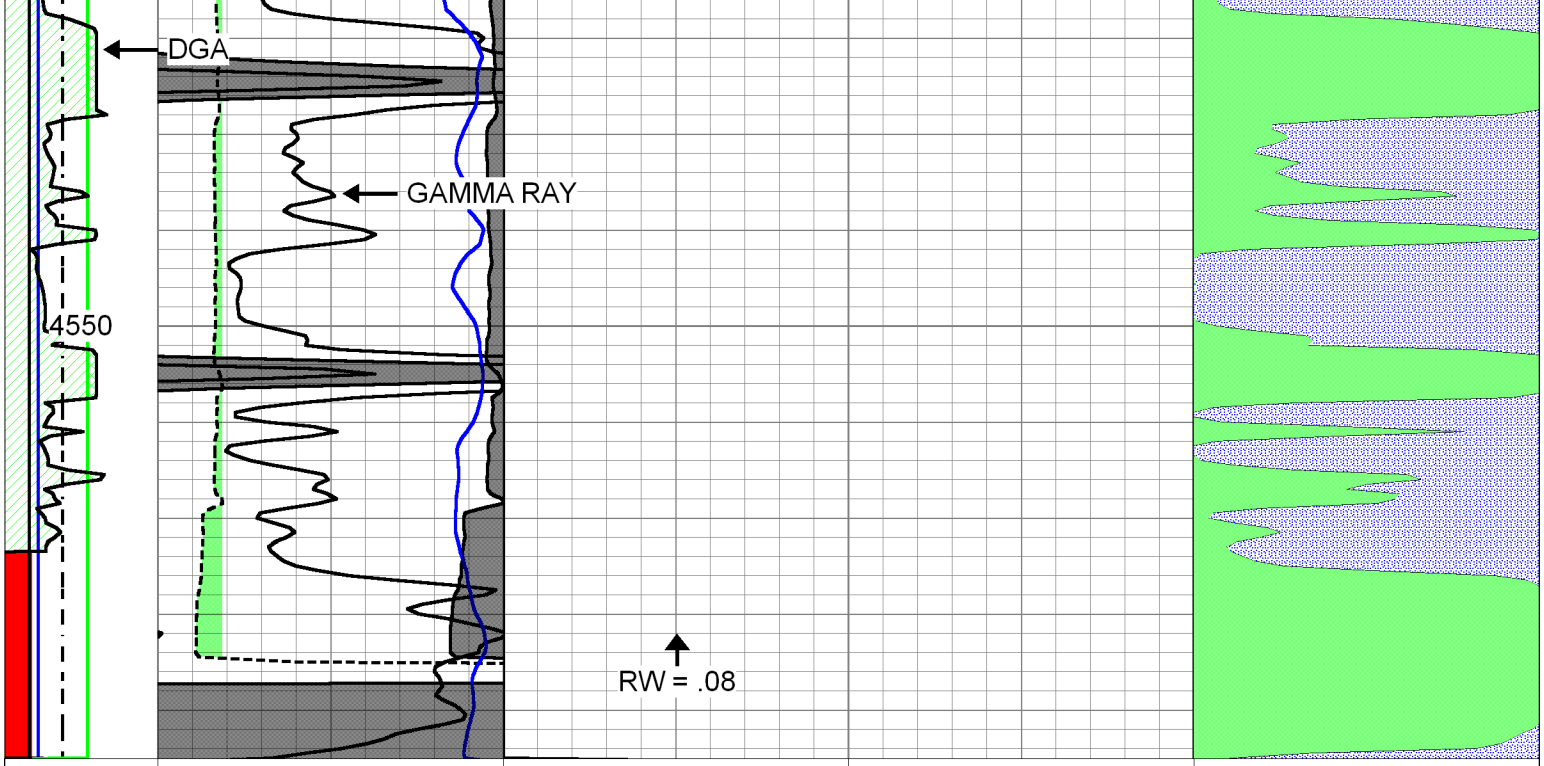
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DGA | | Gamma Ray | | 1 | SW | 0 | 0.3 | PHIE | 0 | 0 | VCL | 1 |
| (g/cc) | | 0 | (GAPI) | 150 | 30 | PAYFLAG | 0 | 0.3 | BVW | 0 | 1 | PHIE | 0 |
| 2.6 | 3.1 | 6 | DCAL (in) | 16 | 1 | SXO | 0 | 0.3 | BVWSXO | 0 | | | |
| | | -150 | SPC | 0 | | | | | | | | | |




SXO
SW
3900
SPC
GAMMA RAY
3950
DGA
DCAL
VCL
4000
4050


4100
4150
4200
4250


4300
4350
4400
4450
4500
RW = .04
RW = .08
DCAL
7.875" BIT SIZE
SW
SXO
SPC
BVW
PHIE
VCL




| DGA | | Gamma Ray | | 1 | SW | 0 | 0.3 | PHIE | 0 | 0 | VCL | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (g/cc) | 0 | (GAPI) | 150 | 30 | PAYFLAG | 0 | 0.3 | BVW | 0 | 1 | PHIE | 0 |
| 2.6 | 3.1 | 6 | DCAL (in) | 16 | 1 | SXO | 0 | 0.3 | BVWSXO | 0 | | |
| | | -150 | SPC | 0 | | | | | | | | |

PIONEER
Pioneer Energy Services

| | |
|---|---|
| Company | CARMEN SCHMITT, INC. |
| Well | GLEASON #1 |
| Field | HORACEK |
| County | HODGEMAN |
| State | KANSAS |