# COMPENSATED DENSITY
# SIDEWALL NEUTRON
# MICROLOG

Company FOSSIL CREEK RESOURCES, LLC.
Well DAY # 15-3
Field WILDCAT
County SUMNER
State KANSAS

**Company** FOSSIL CREEK RESOURCES, LLC.
**Well** DAY # 15-3
**Field** WILDCAT
**County** SUMNER **State** KANSAS

**Location:** API # : 15-191-22576-0000

NE NE NW SW
2400' FSL & 1100' FWL

SEC 15 TWP 35S RGE 1E

Other Services
DIL
SONIC

Permanent Datum GL Elevation 1130'
Log Measured From KB
Drilling Measured From KB 13'

Elevation
K.B. 1143'
D.F. 1142'
G.L. 1130'

| | | | |
|---|---|---|---|
| Date | 7-25-2010 | | |
| Run Number | ONE | | |
| Depth Driller | 3351' | | |
| Depth Logger | 3353' | | |
| Bottom Logged Interval | 3351' | | |
| Top Log Interval | SURFACE | | |
| Casing Driller | 8.625" @ 255' | | |
| Casing Logger | 8.625" @ 255' | | |
| Bit Size | 7 7/8" | | |
| Type Fluid in Hole | CHEM-GEL | | |
| Density / Viscosity | 9.0 / 45 | | |
| pH / Fluid Loss | 10.5 / 10.2 | | |
| Source of Sample | PIT | | |
| Rm @ Meas. Temp | 2.8 @ 80 | | |
| Rmf @ Meas. Temp | 2.24 @ 80 | | |
| Rmc @ Meas. Temp | 3.36 @ 80 | | |
| Source of Rmf / Rmc | CAL | | |
| Rm @ BHT | 2.07 @ 108 | | |
| Time Circulation Stopped | | | |
| Time Logger on Bottom | | | |
| Maximum Recorded Temperature | 108 | | |
| Equipment Number | OW2 | | |
| Location | CLEVELAND, OK | | |
| Recorded By | SHELDON TYLER | SPENCER TYLER | |
| Witnessed By | MR. PILAND | MR. LUPO | |

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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

FILE # OW2-7046
MATRIX LIMESTONE 2.71 g/cc
ABHV COMPUTED WITH 5 1/2" CASING

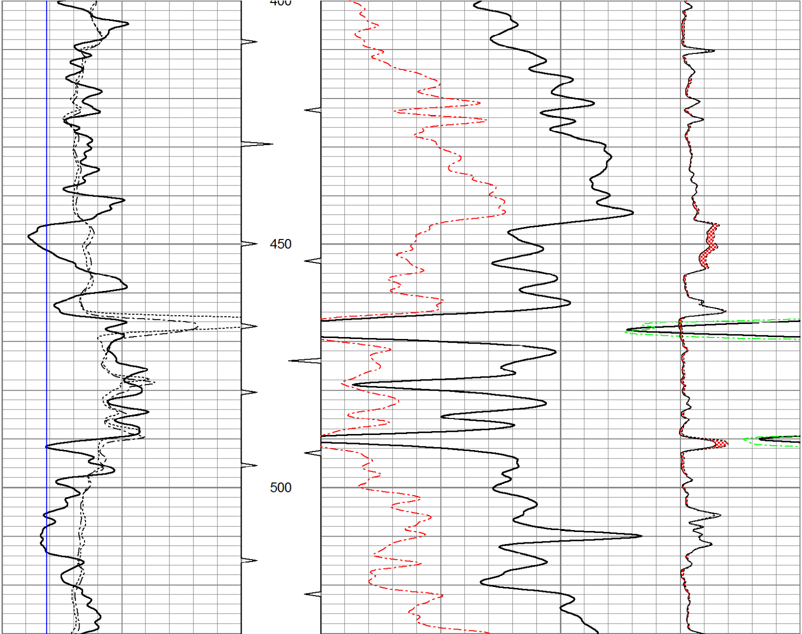
# 5" CDL/SWN MICROLOG

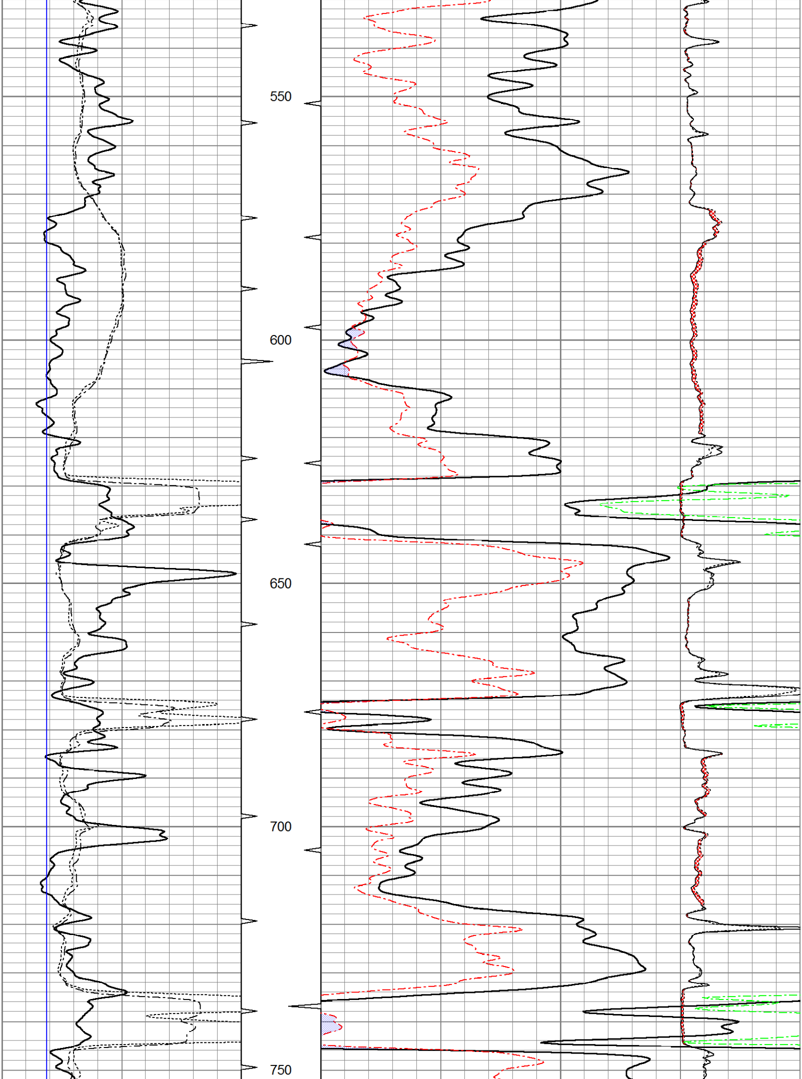
| | |
|---|---|
| Database File: | ow2-7046 fossil creek.db |
| Dataset Pathname: | CDL/pass3.6 |
| Presentation Format: | cdlnmel |
| Dataset Creation: | Sun Jul 25 16:54:28 2010 by Calc Open-Cased 081212 |
| Charted by: | Depth in Feet scaled 1:240 |

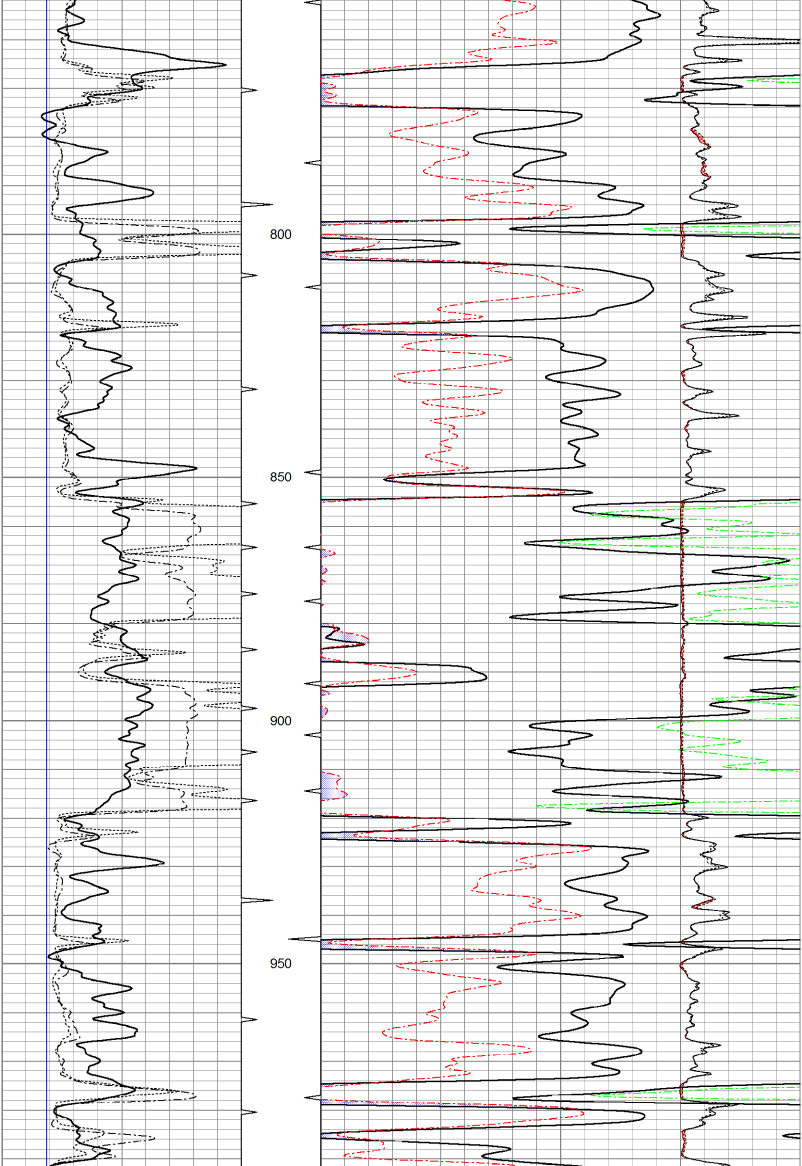
0 Gamma Ray (GAPI) 150
6 Bit size (in) 16
6 Neutron Caliper (in) 16
Micro Caliper

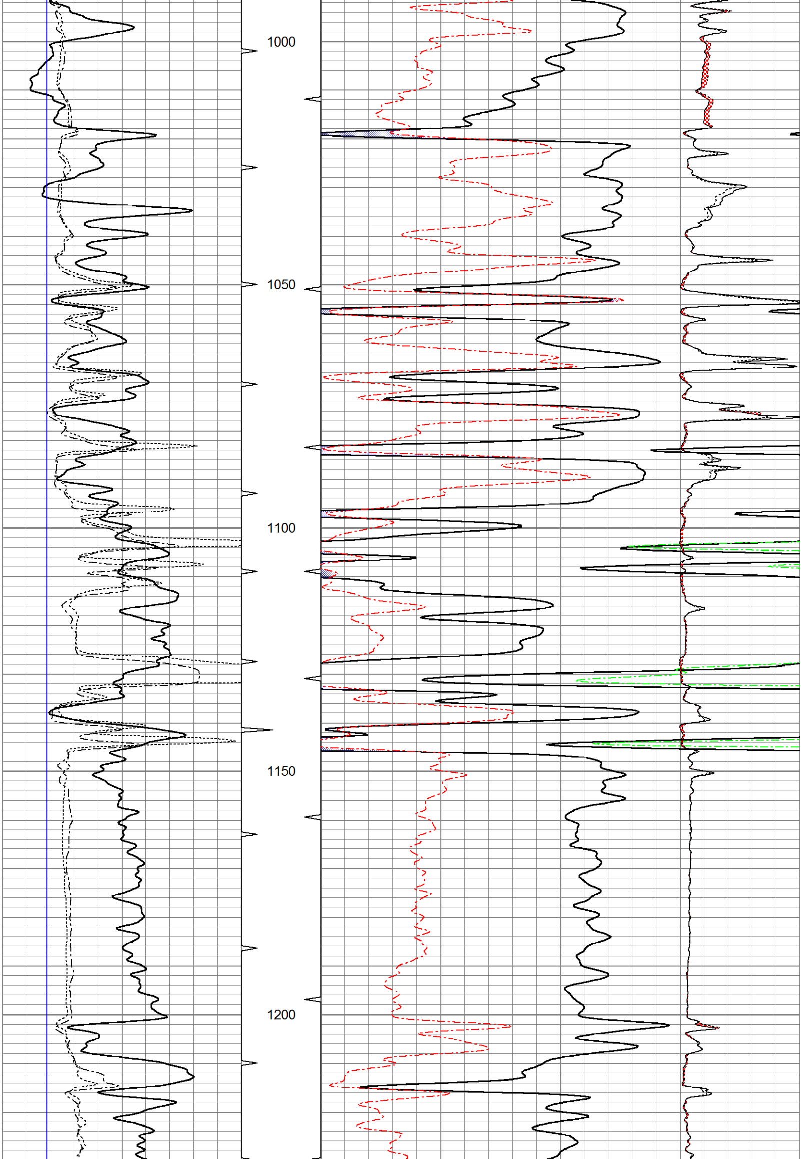
TBHV
ABHV

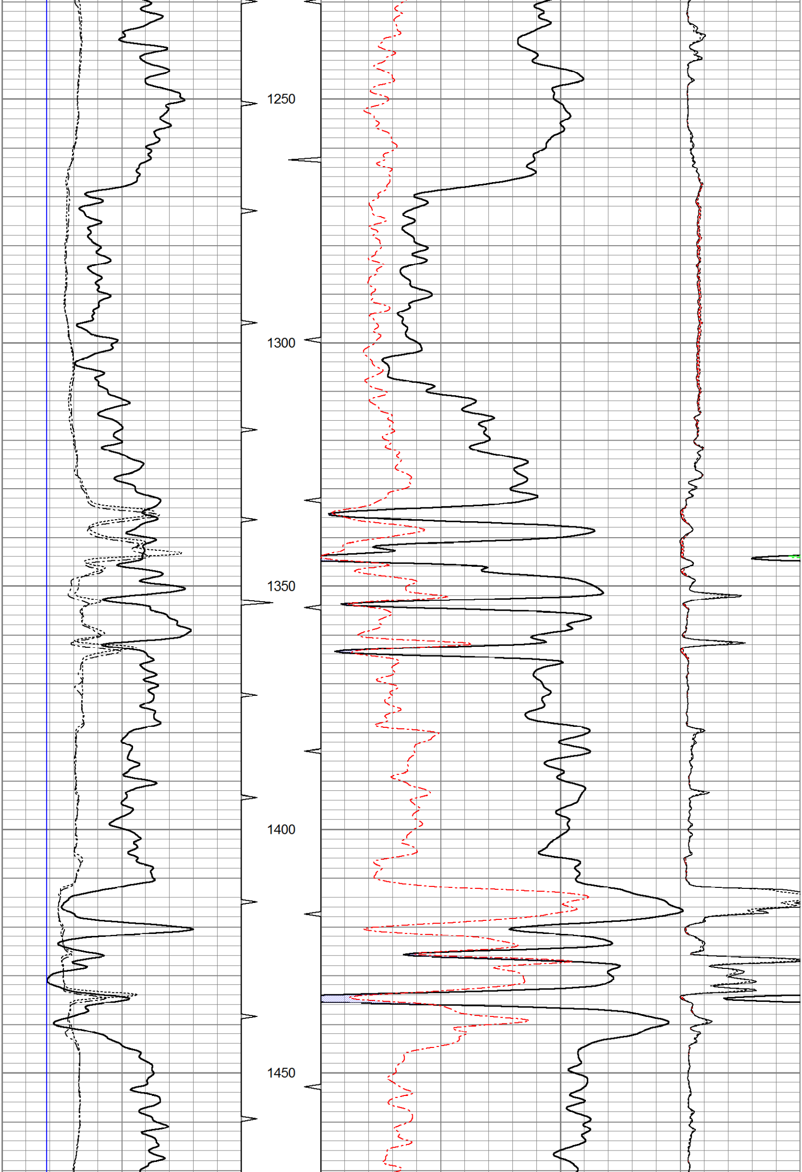
30 Density Porosity (pu) -10
30 Neutron Porosity (pu) -3
Micro Inverse
Micro Normal

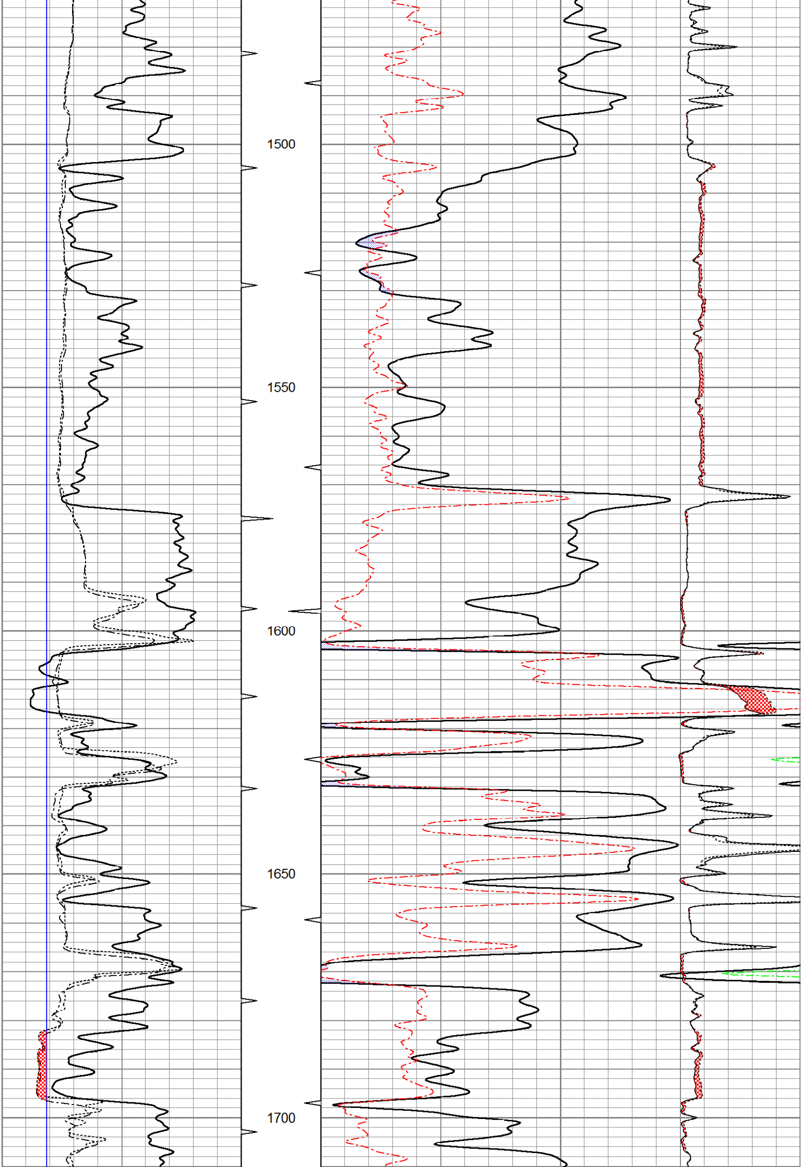


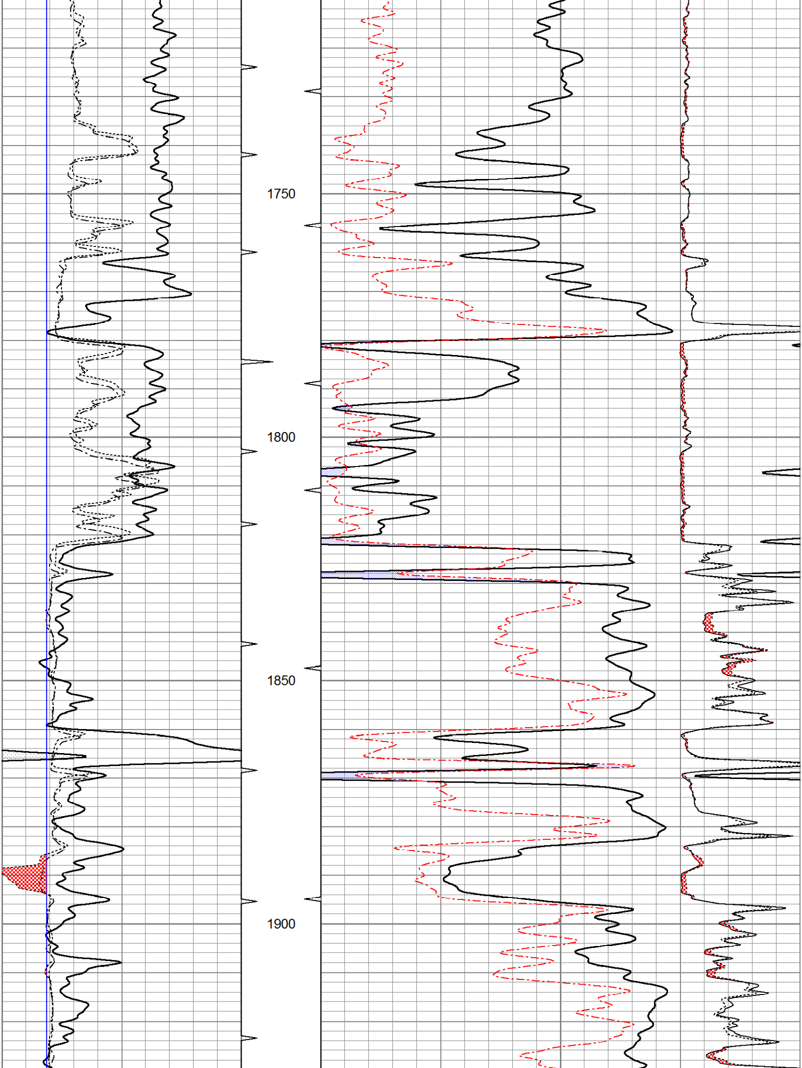


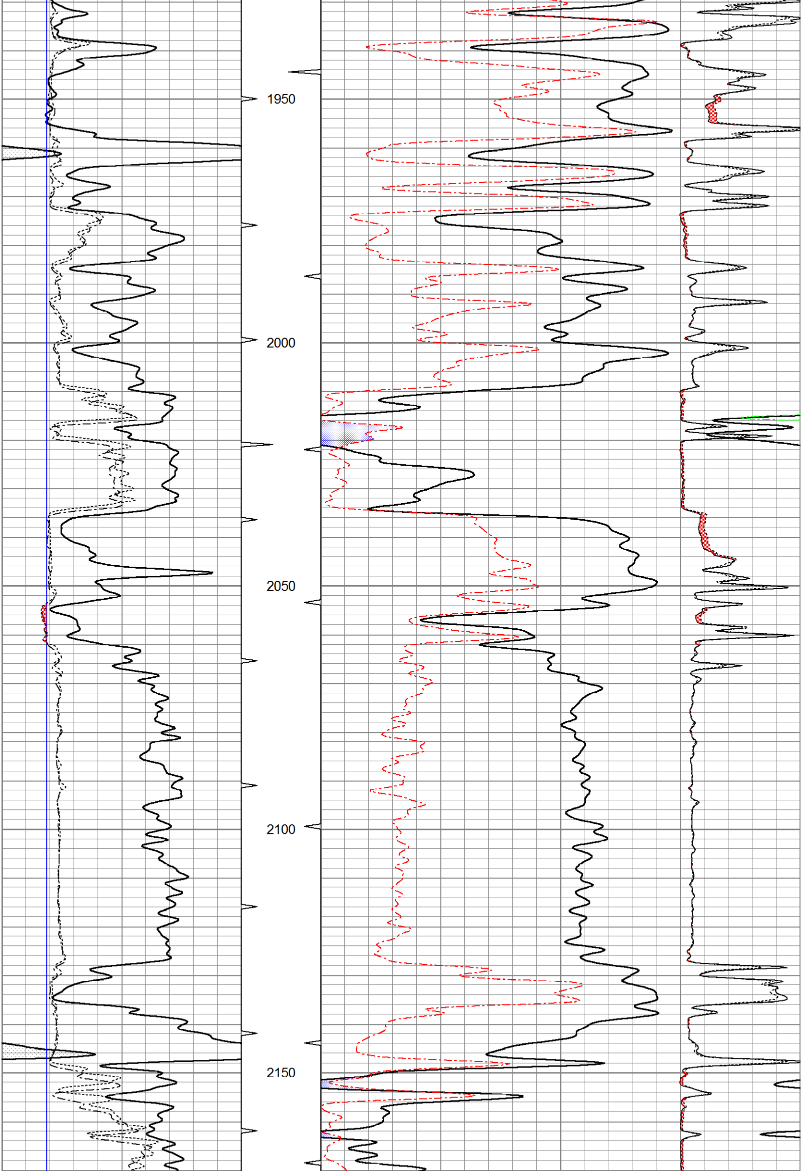


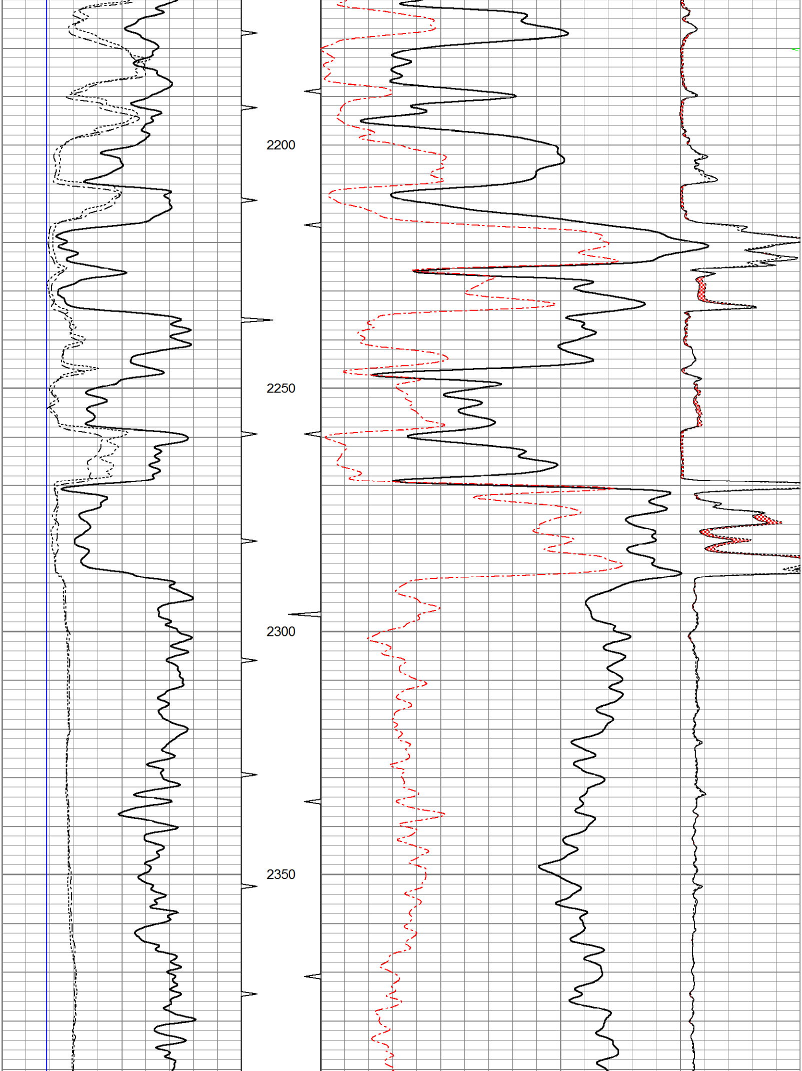


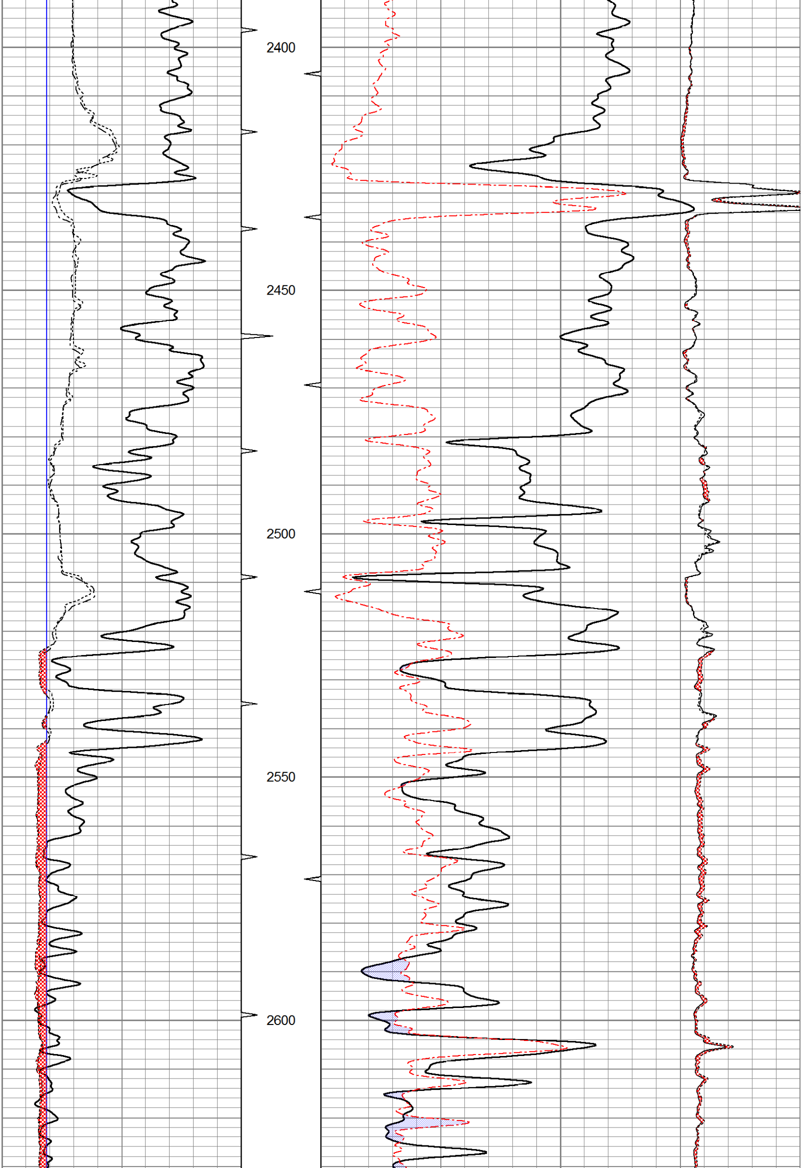


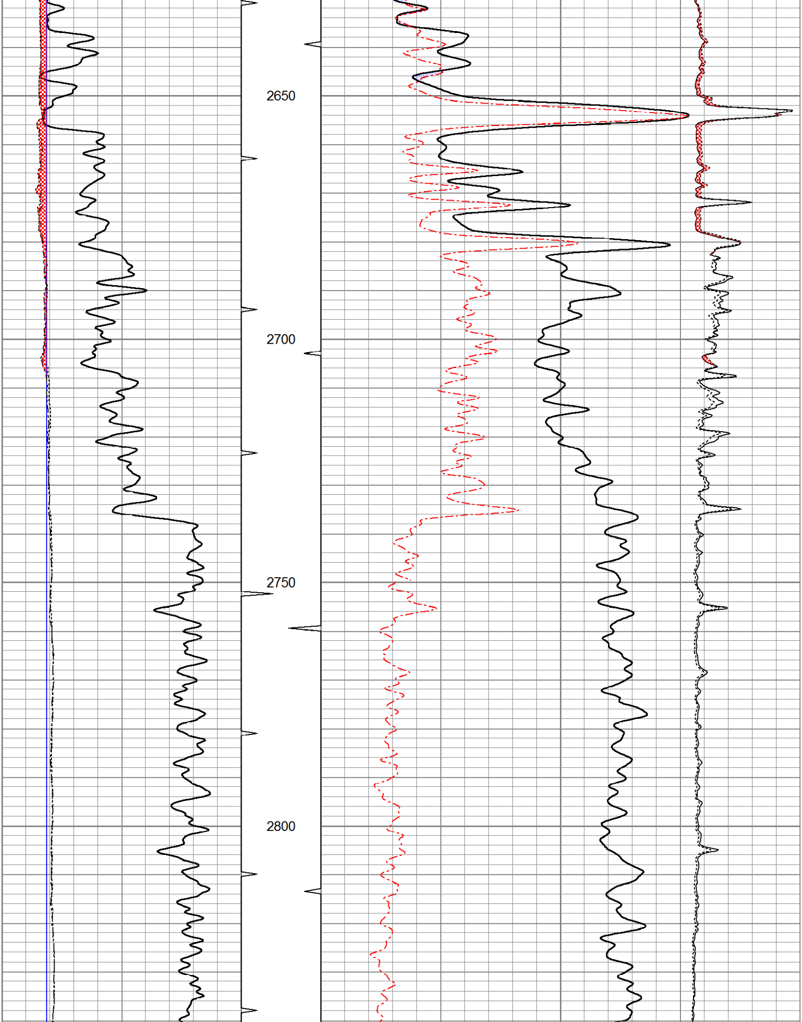


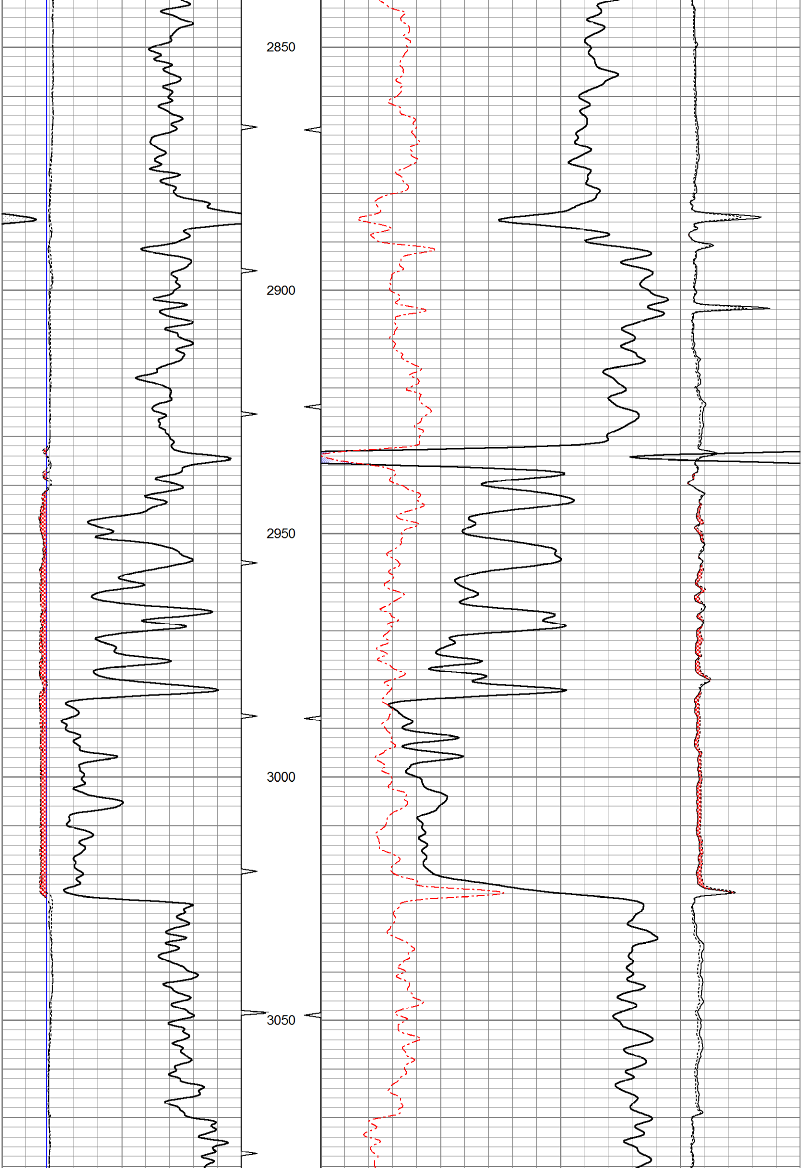


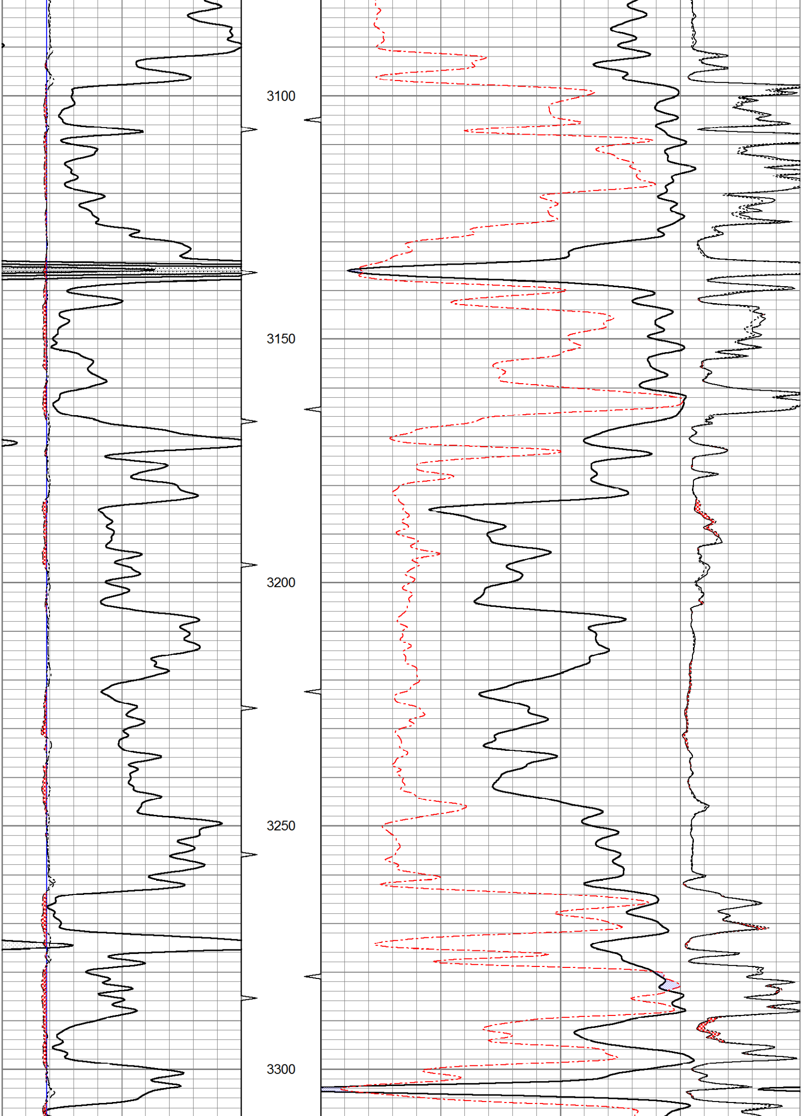


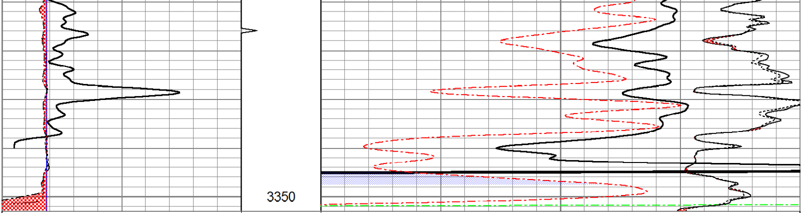












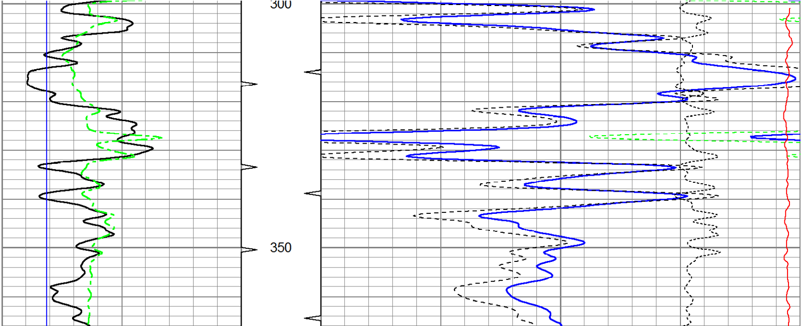
| | | |
|---|---|---|
| 0 Gamma Ray (GAPI) 150 | TBHV | 30 Density Porosity (pu) -10 |
| 6 Bit size (in) 16 | ABHV | 30 Neutron Porosity (pu) -10 |
| 6 Neutron Caliper (in) 16 | | Micro Inverse |
| Micro Caliper | | Micro Normal |

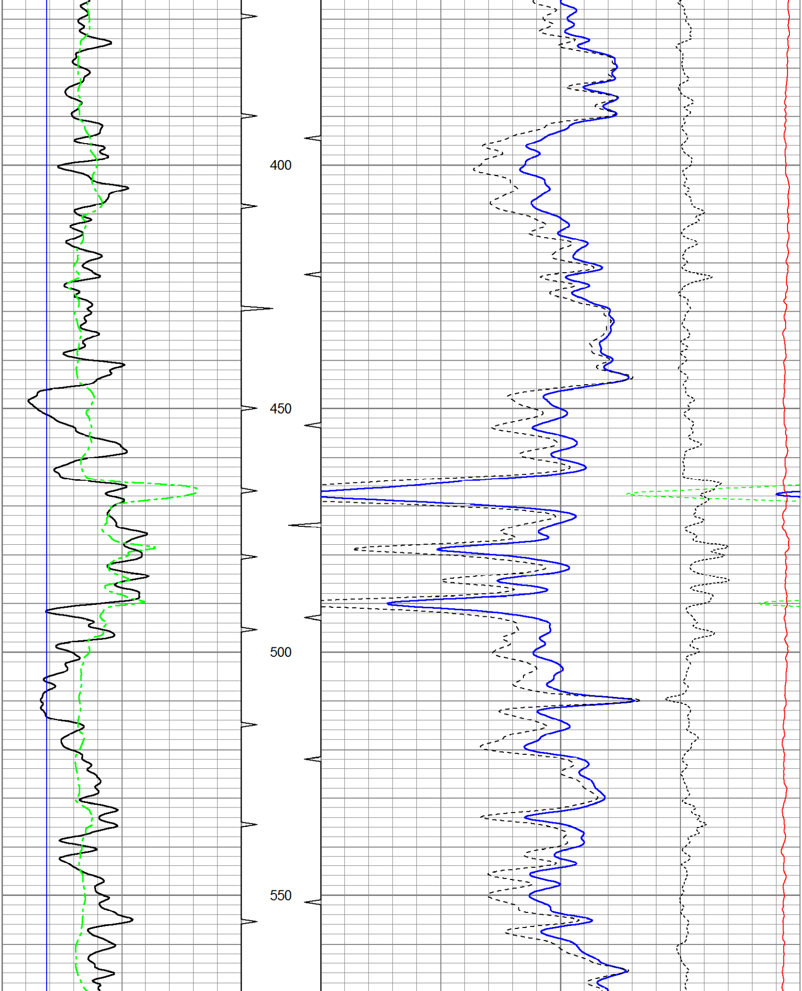
OSAGE WIRELINE

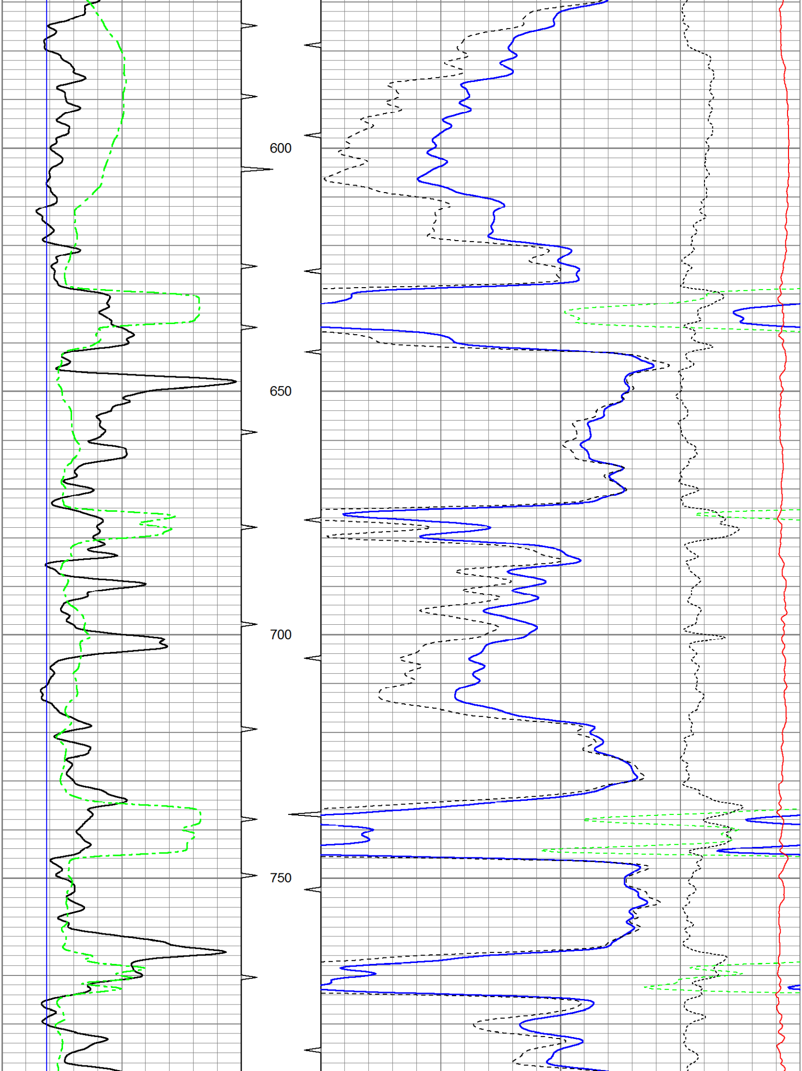
# 5" CDL SECTION

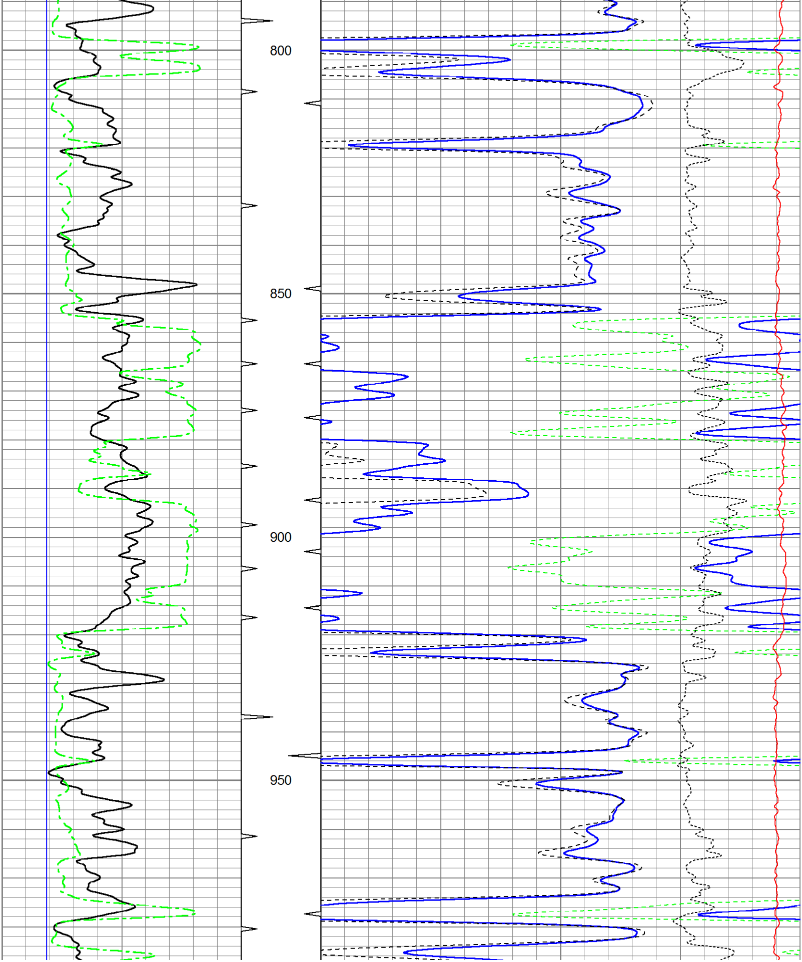
| | |
|---|---|
| Database File: | ow2-7046 fossil creek.db |
| Dataset Pathname: | CDL/pass3.5 |
| Presentation Format: | bulk6 |
| Dataset Creation: | Sun Jul 25 16:53:47 2010 by Calc Open-Cased 081212 |
| Charted by: | Depth in Feet scaled 1:240 |

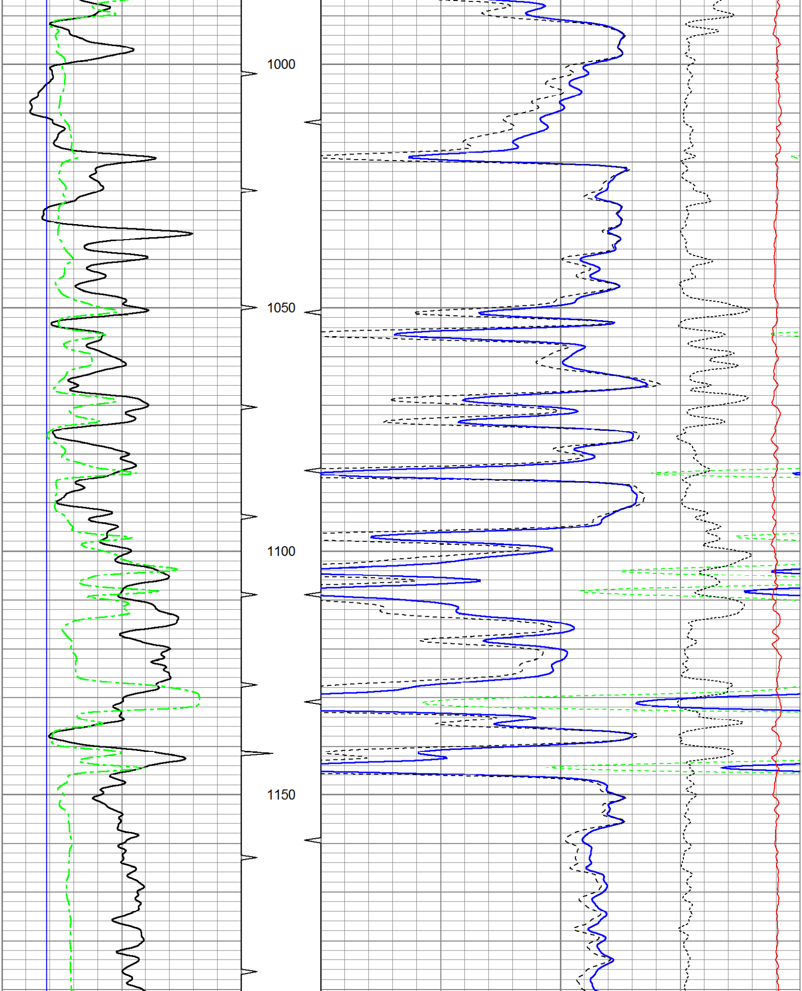
| | | |
|---|---|---|
| 0 Gamma Ray (GAPI) 150 | TBHV | 2 Bulk Density (g/cc) 3 |
| 6 Bit size (in) 16 | ABHV | 30 Density porosity (pu) -10 |
| 6 Neutron Caliper (in) 16 | | -0.5 Correction (g/cc) 0.5 |
| | | 4500 Line Tension (lb) 500 |

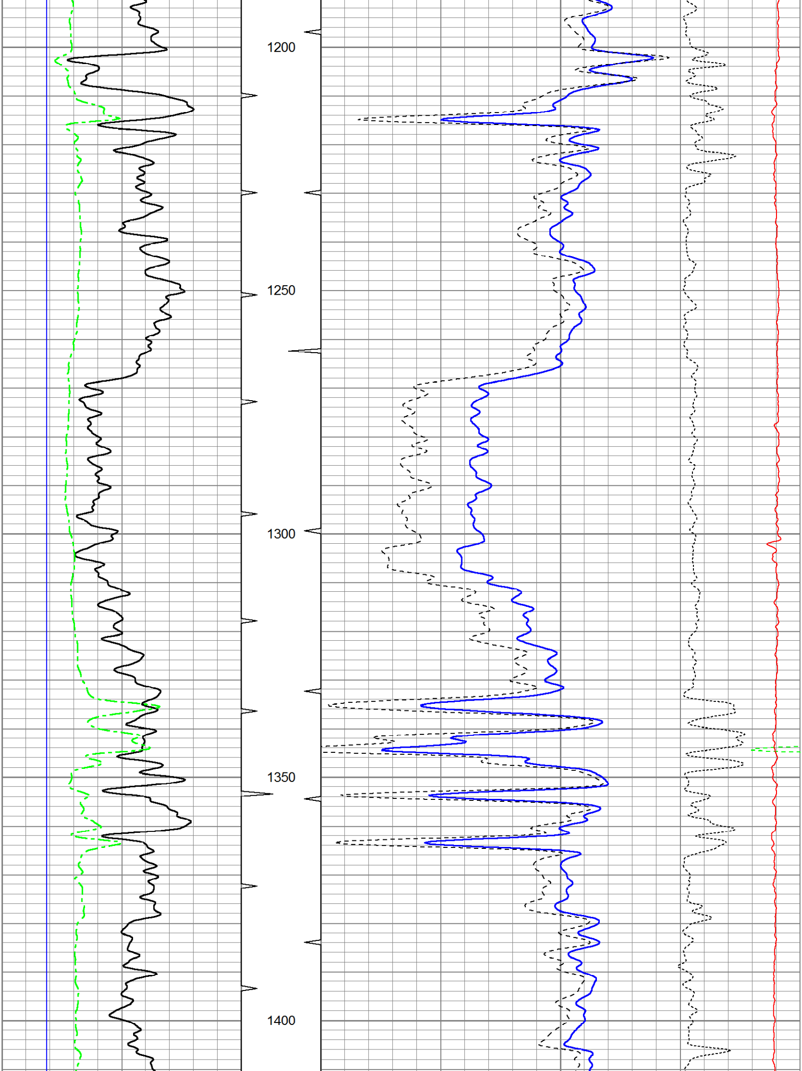


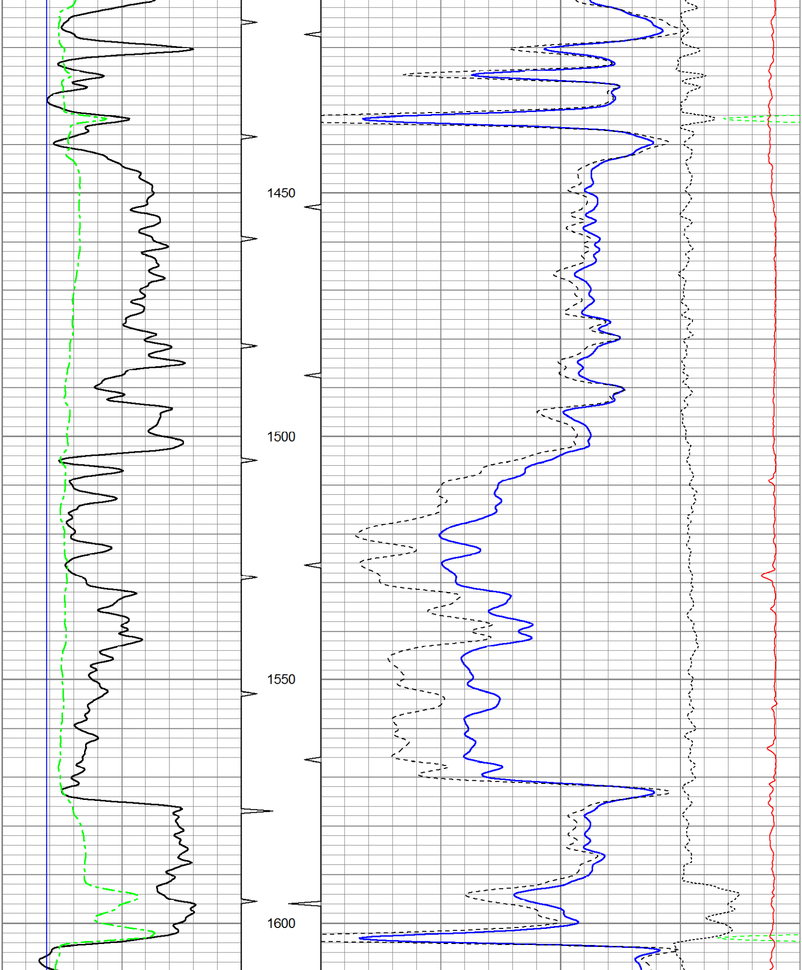


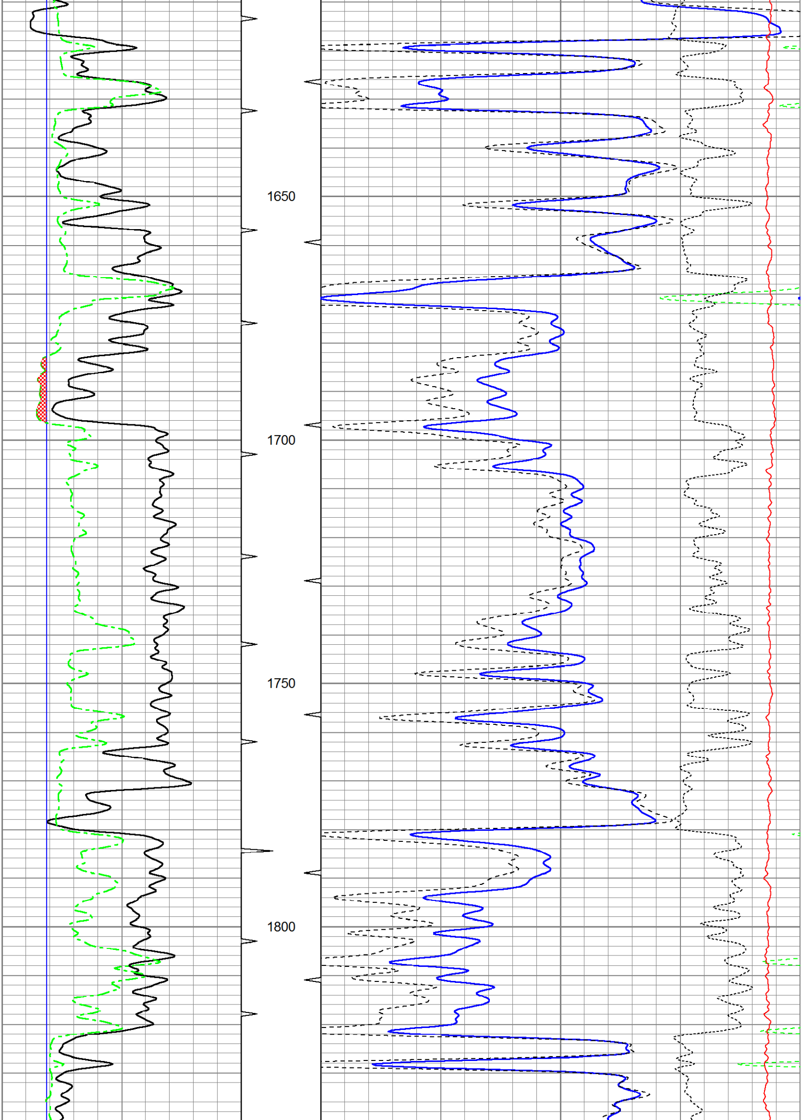


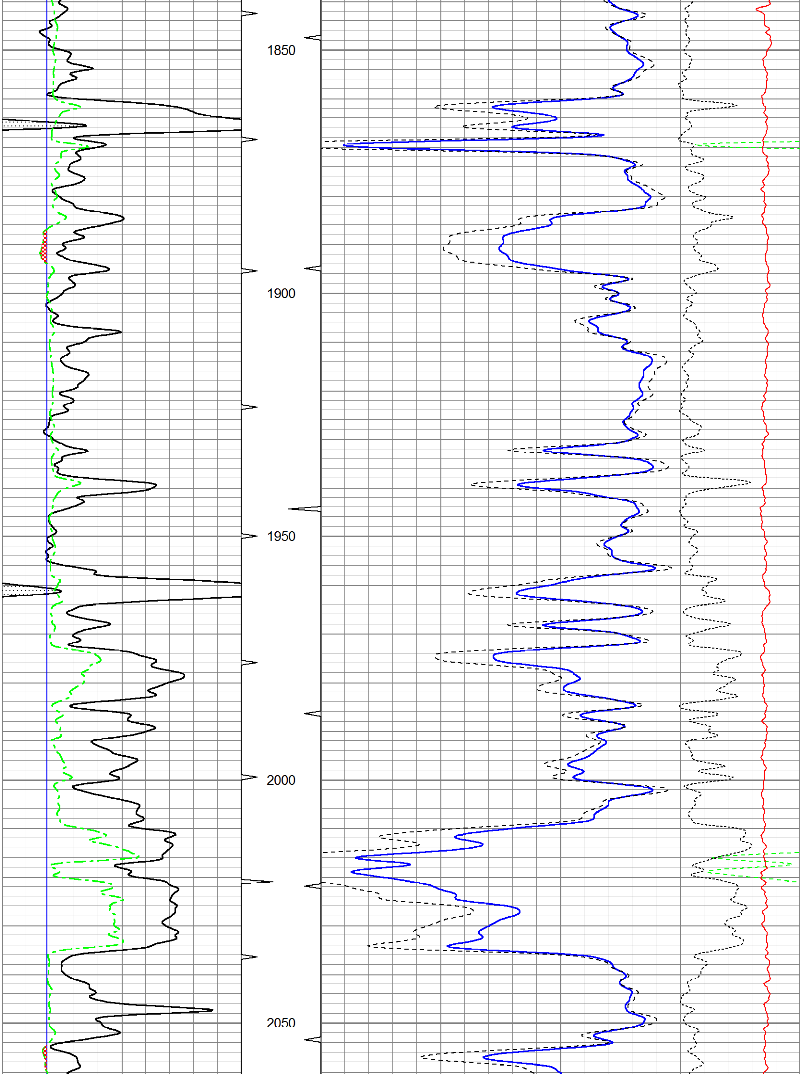


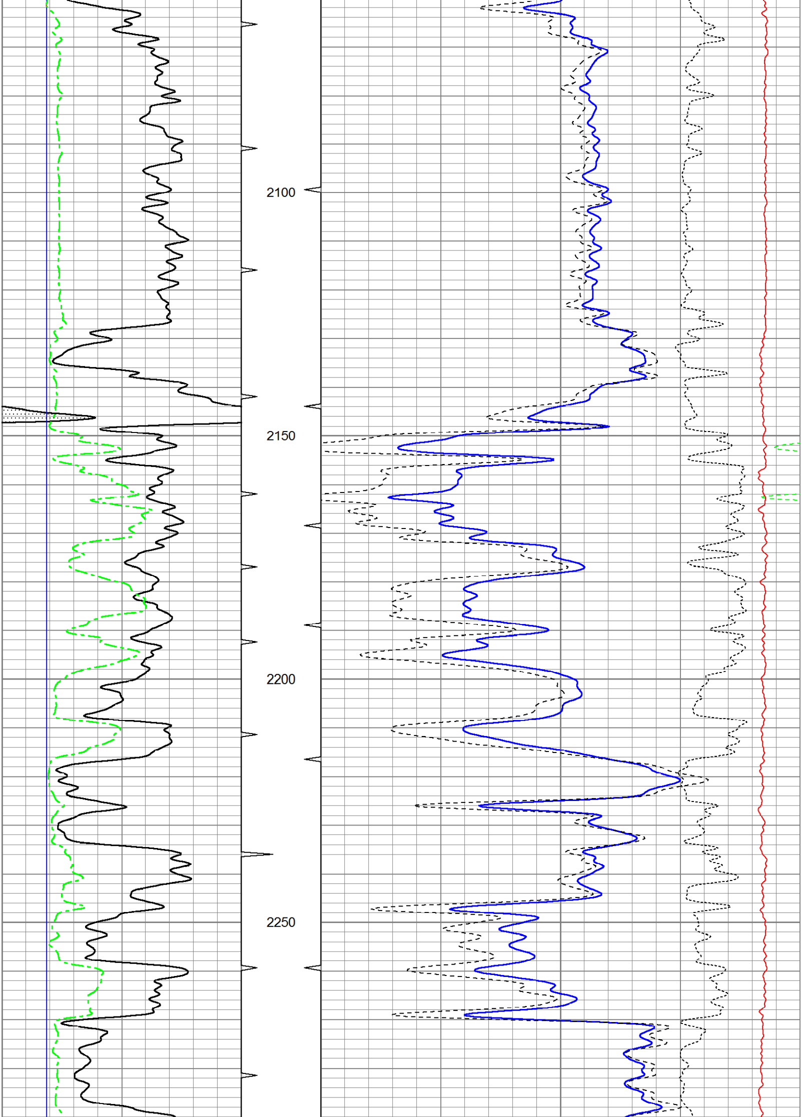


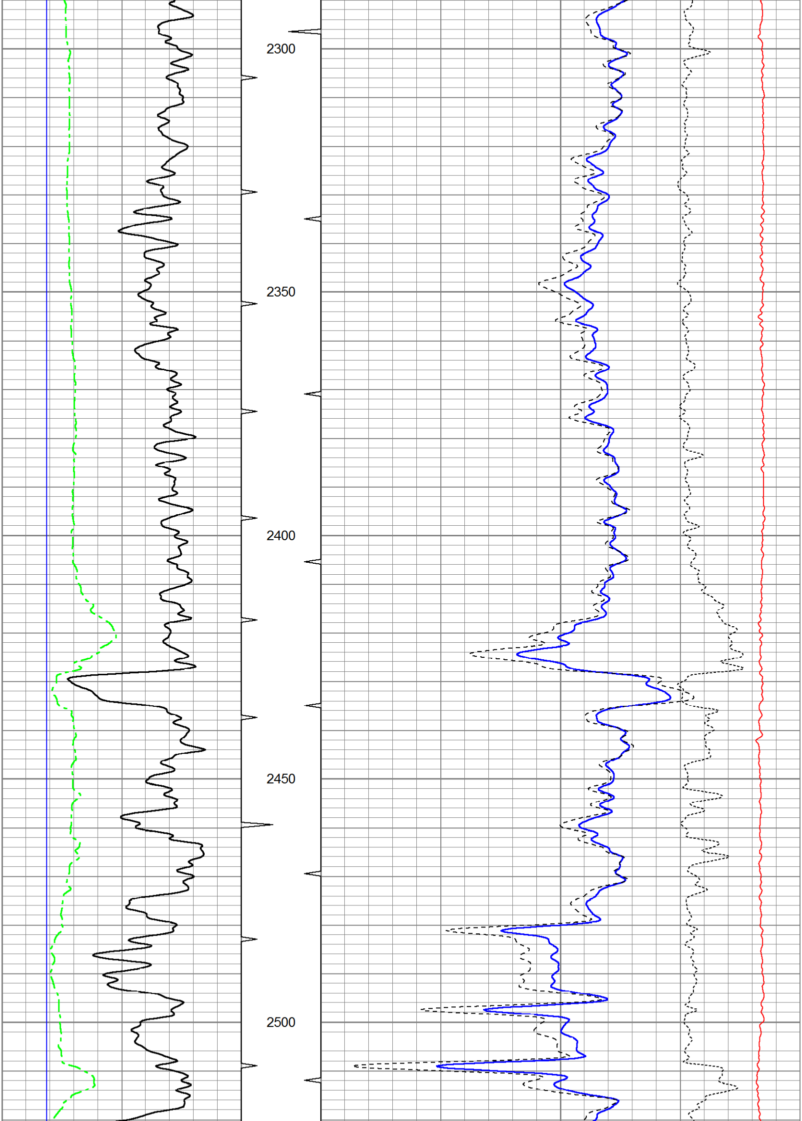


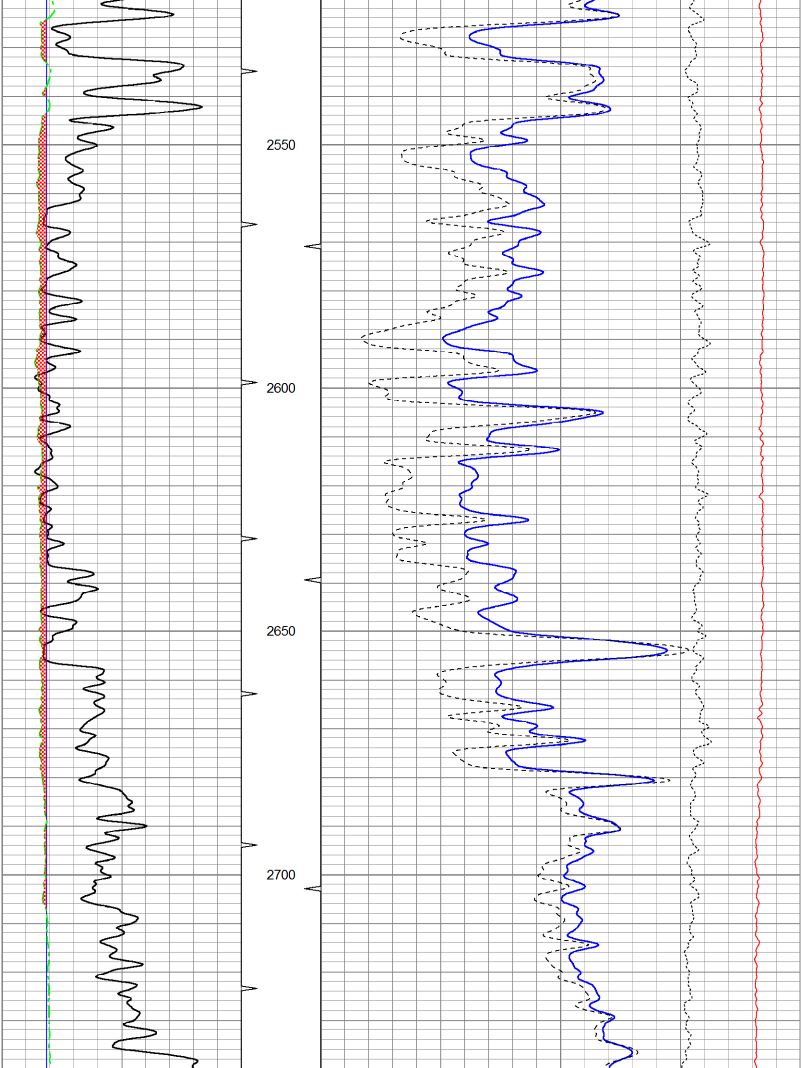


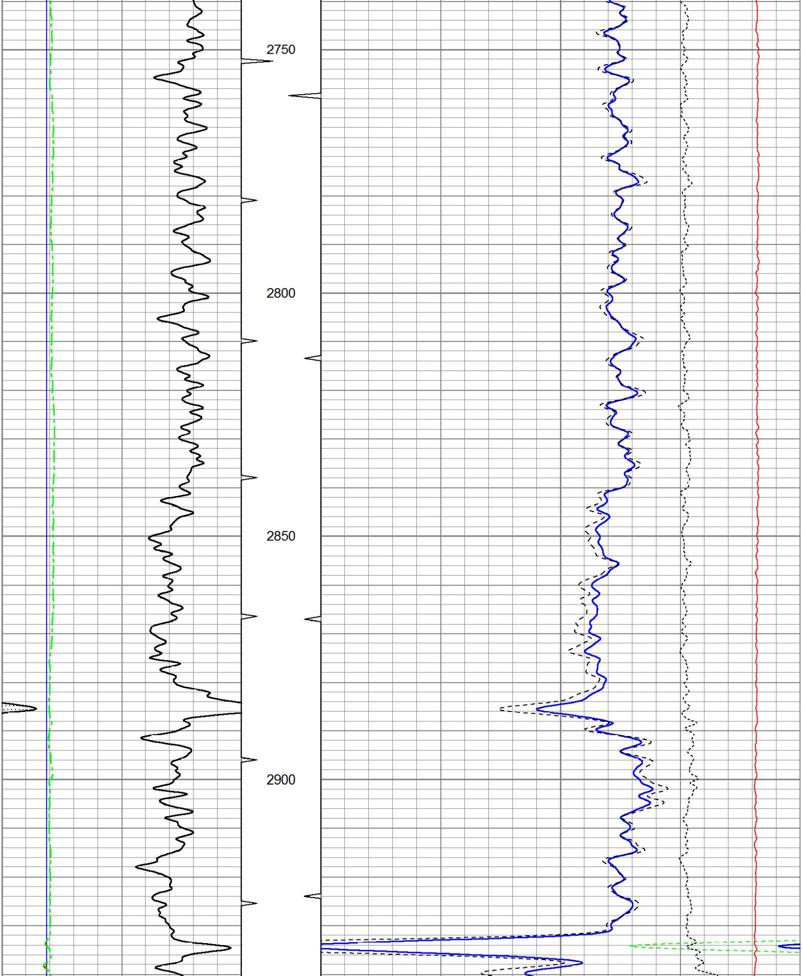


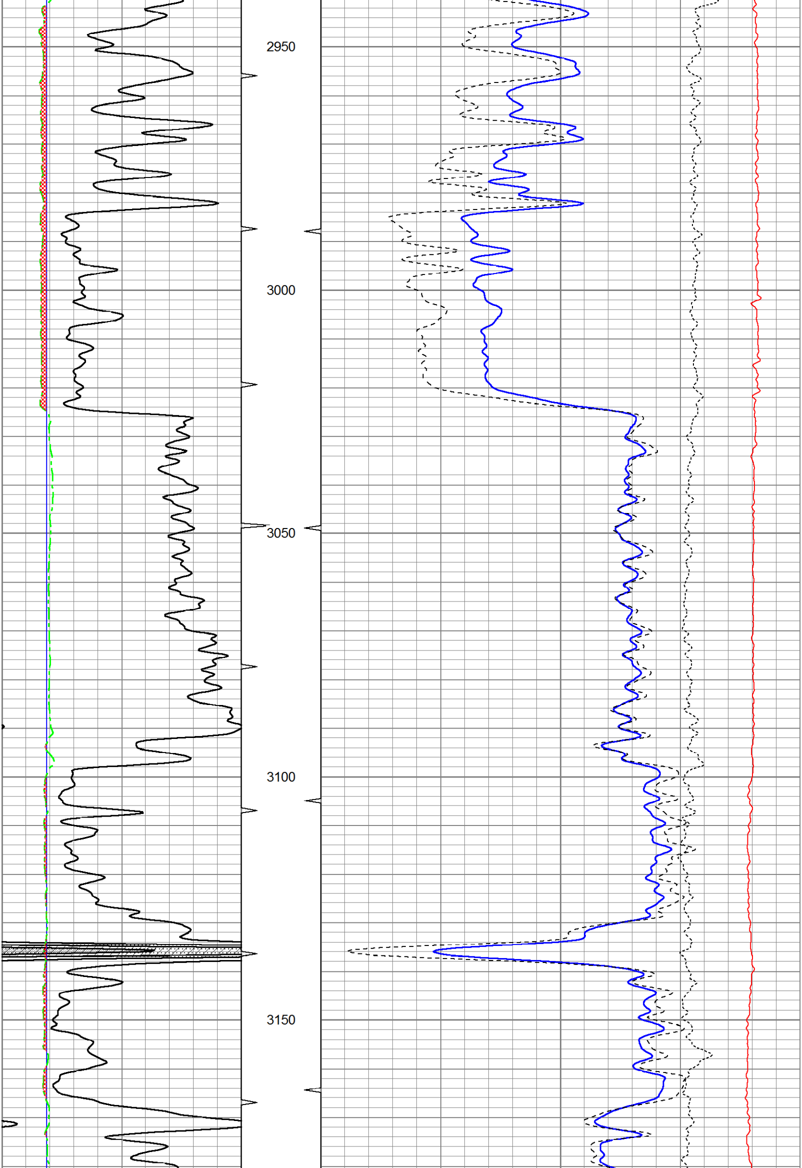


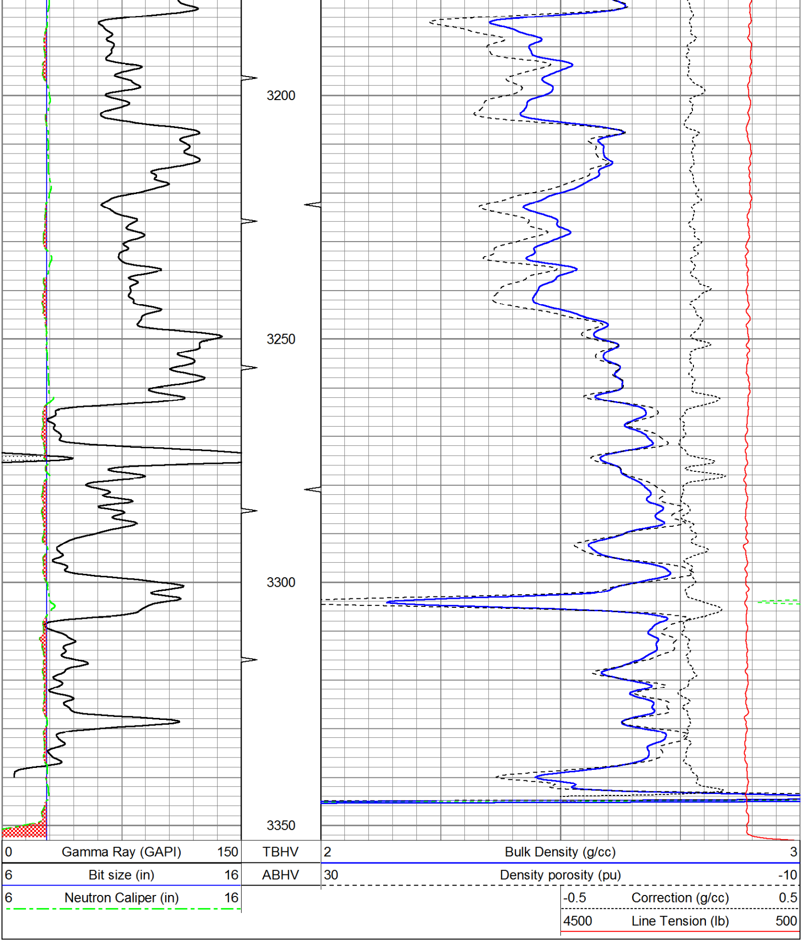








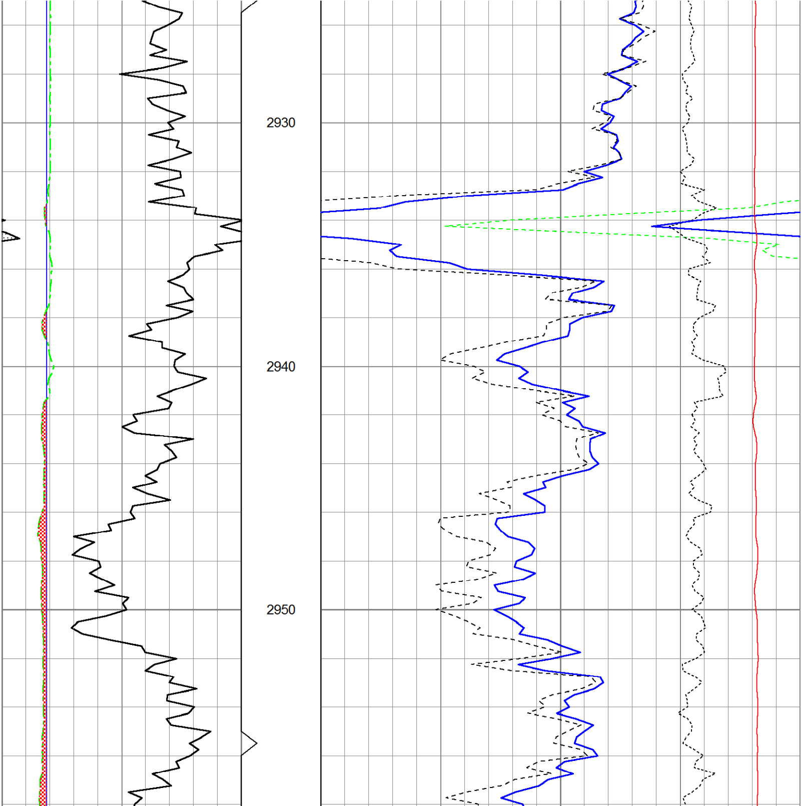


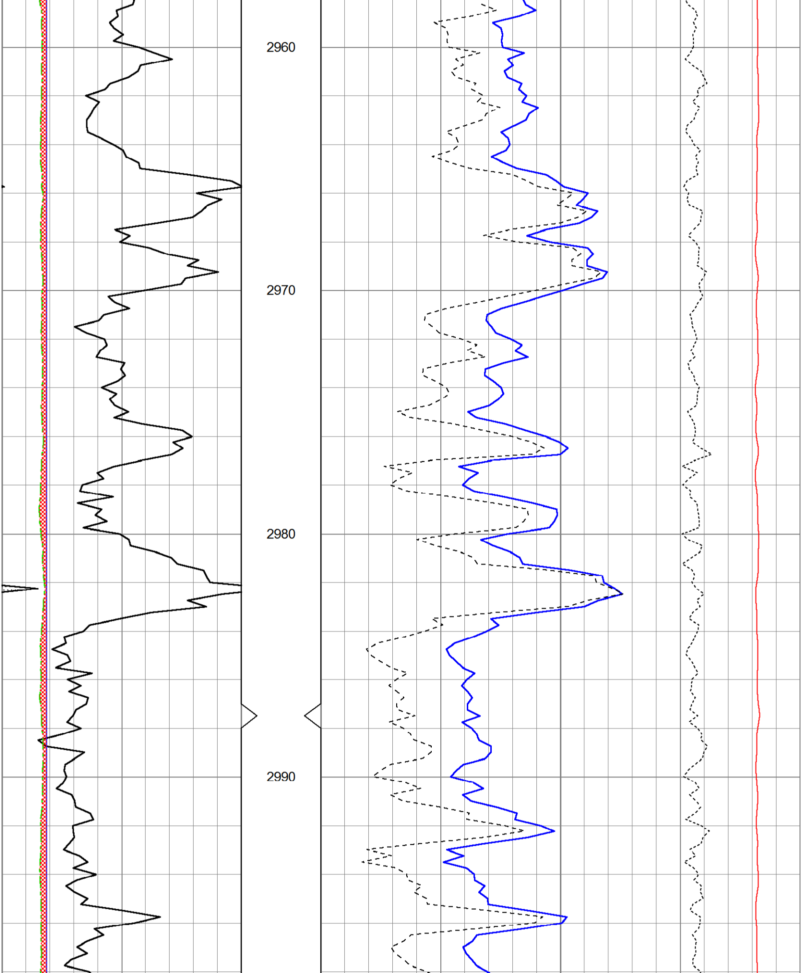


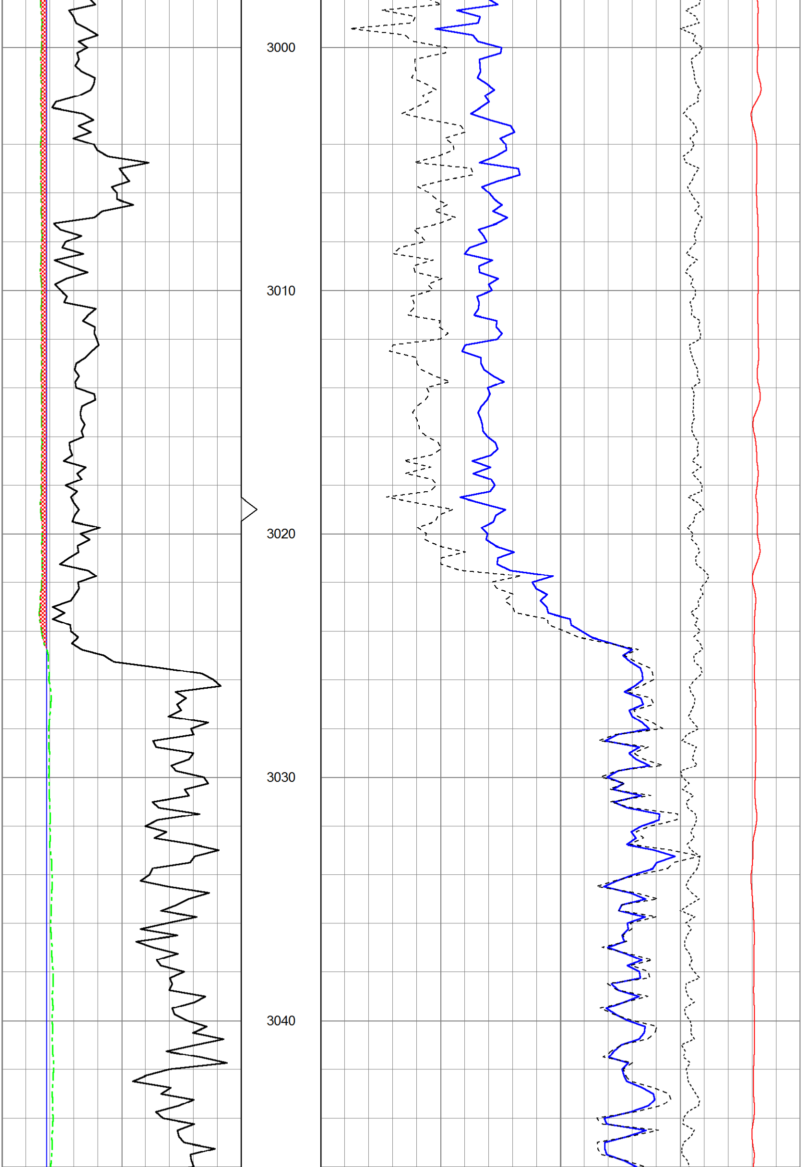
# 25" HR CDL SECTION

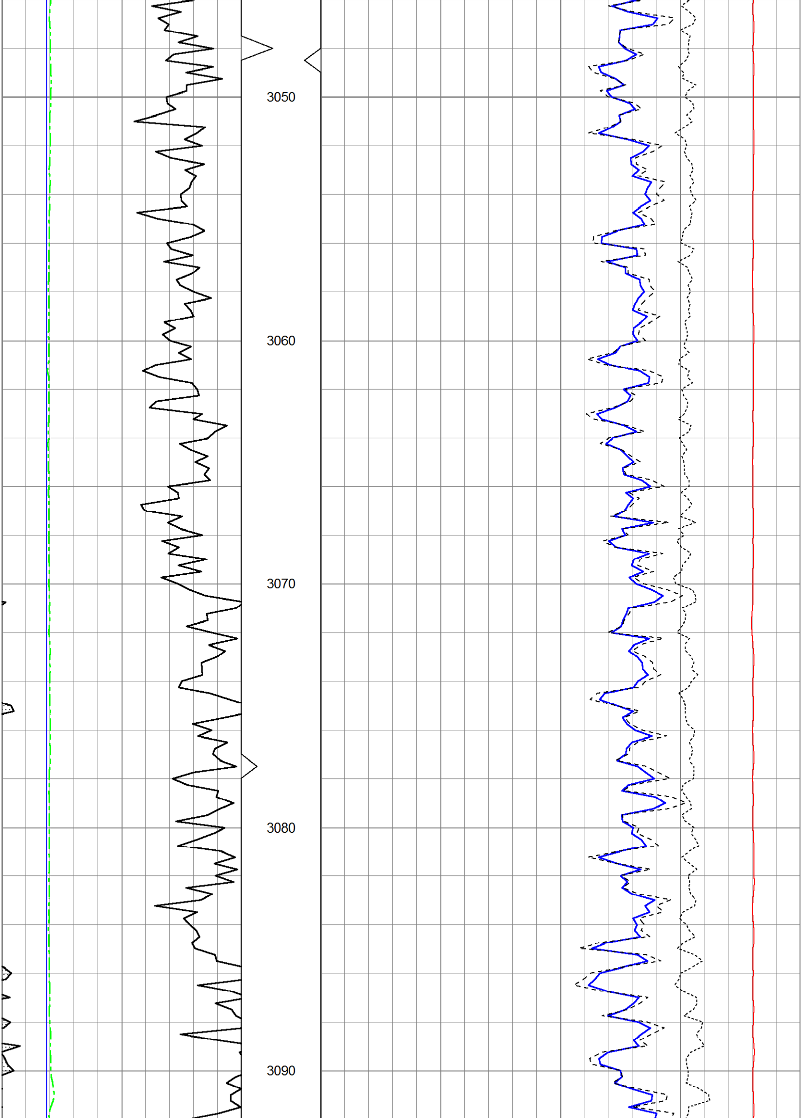
Database File: ow2-7046 fossil creek.db
Dataset Pathname: CDL/pass3.7
Presentation Format: bulk6hr
Dataset Creation: Sun Jul 25 18:11:25 2010 by Calc Open-Cased 081212
Charted by: Depth in Feet scaled 1:48

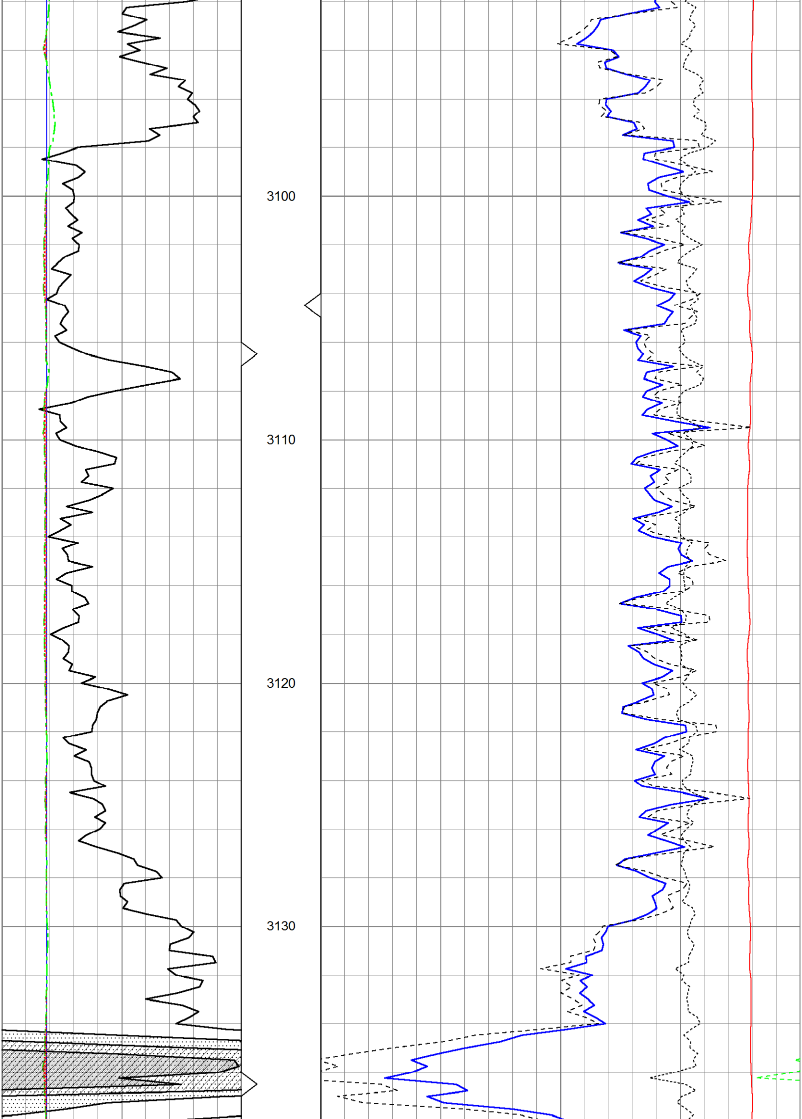
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | Gamma Ray (GAPI) | 150 | TBHV | 2 | Bulk Density (g/cc) | 3 | |
| 6 | Bit size (in) | 16 | ABHV | 30 | Density porosity (pu) | -10 | |
| 6 | Neutron Caliper (in) | 16 | | -0.5 | Correction (g/cc) | 0.5 | |
| | | | | 4500 | Line Tension (lb) | 500 | |

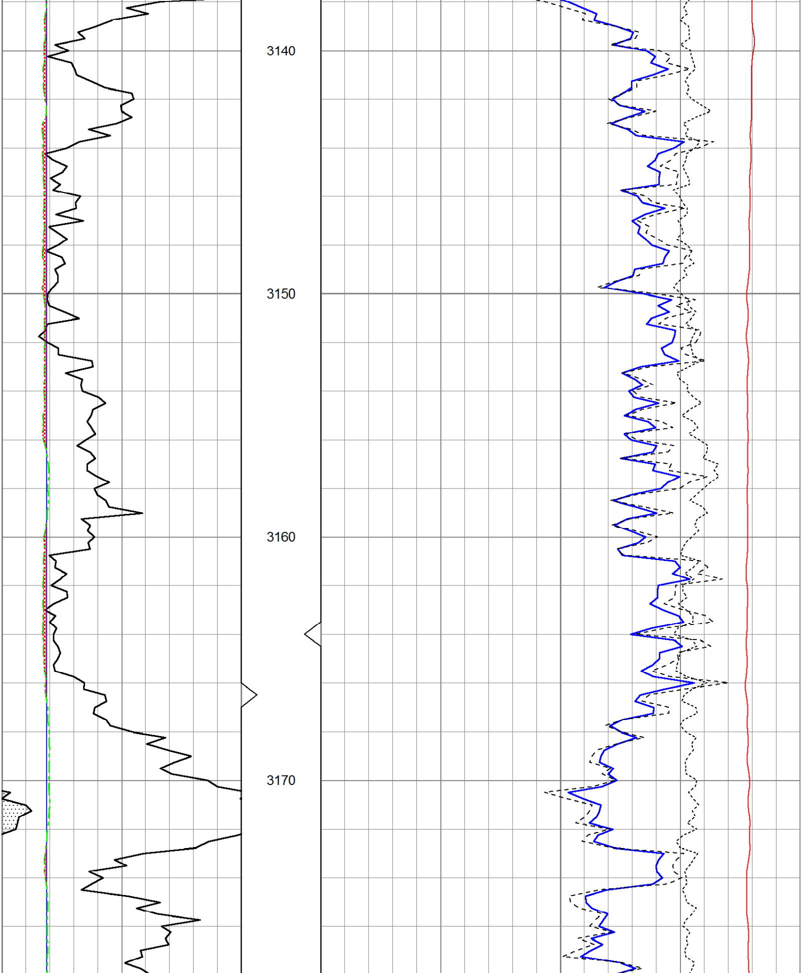


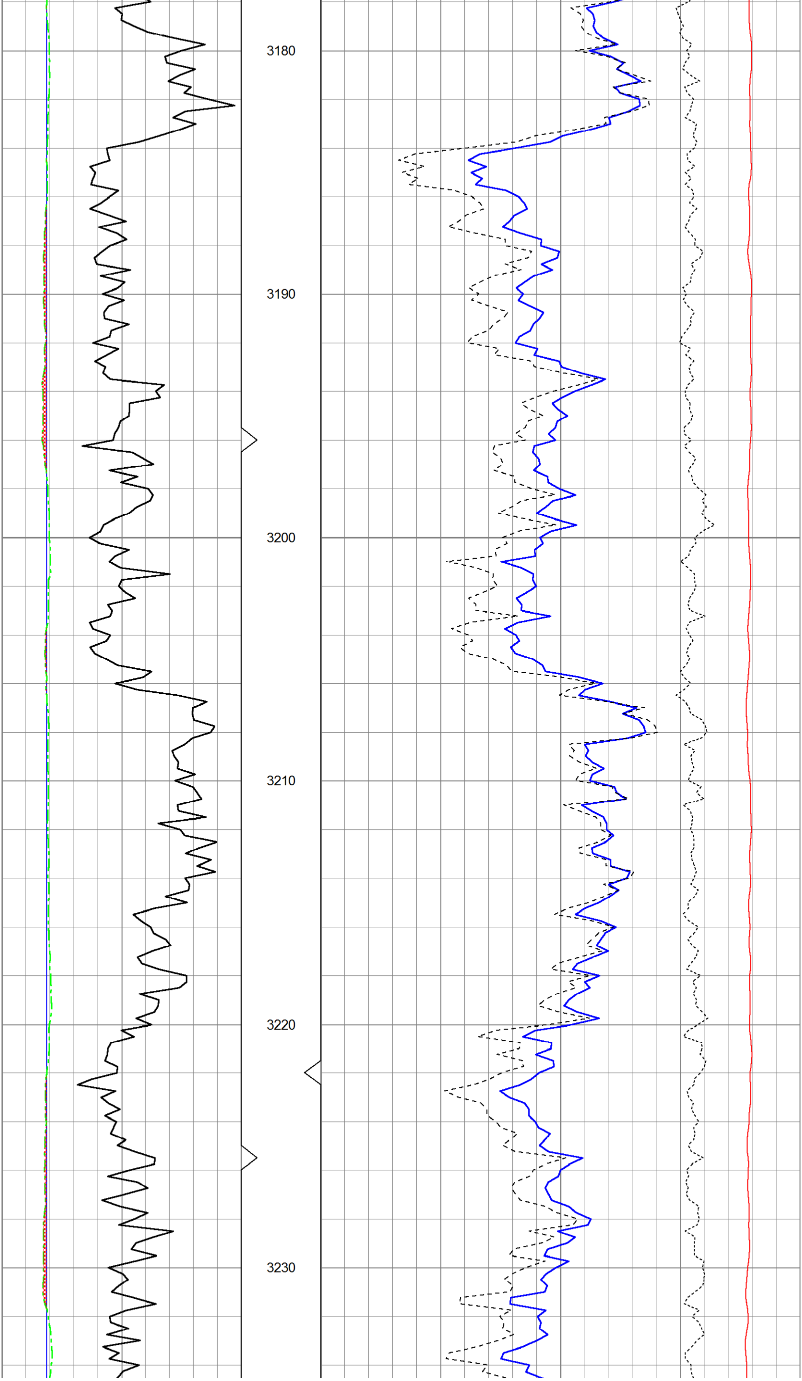


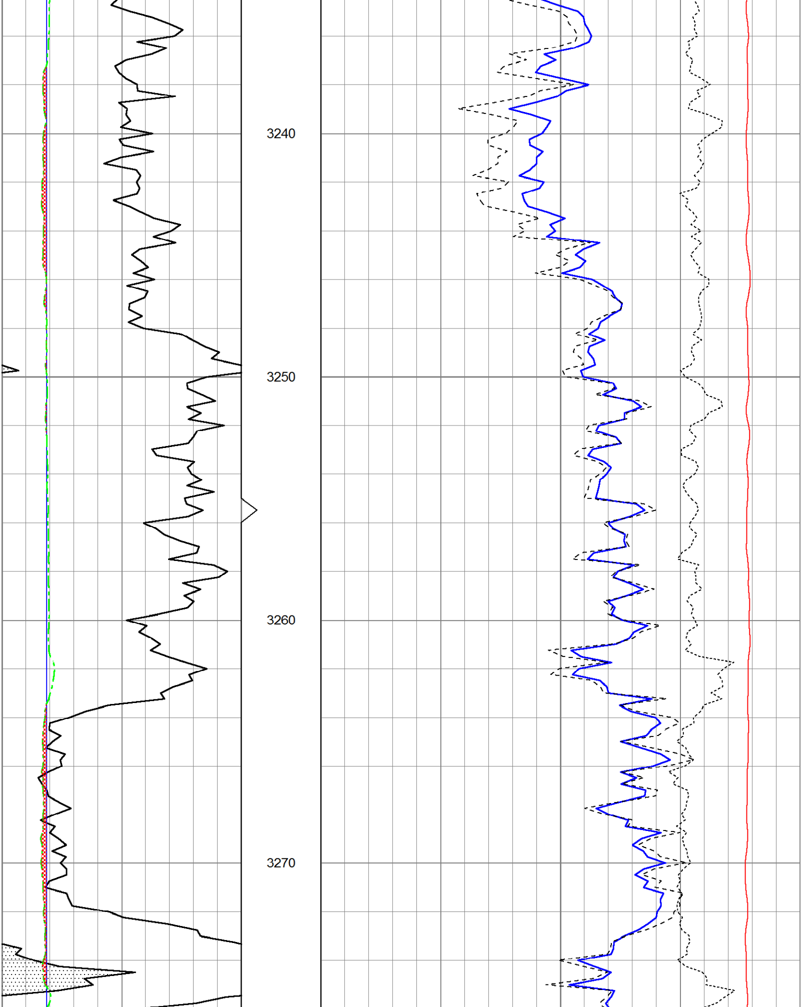


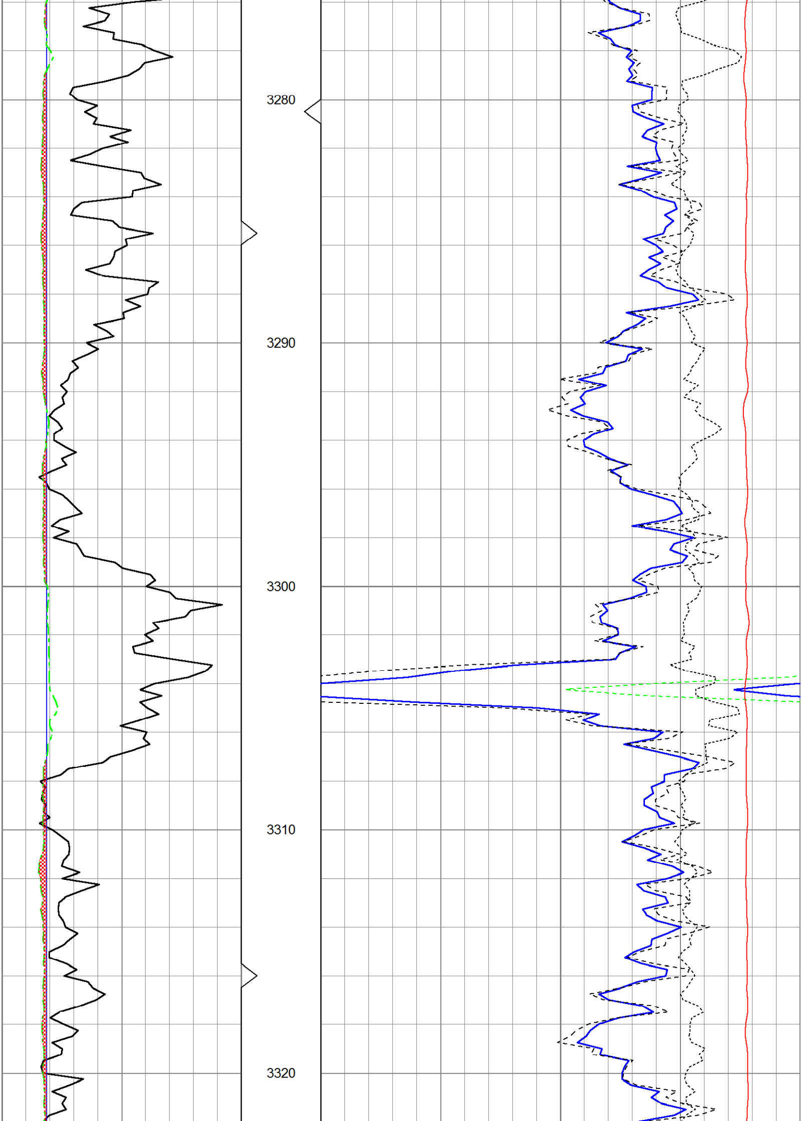


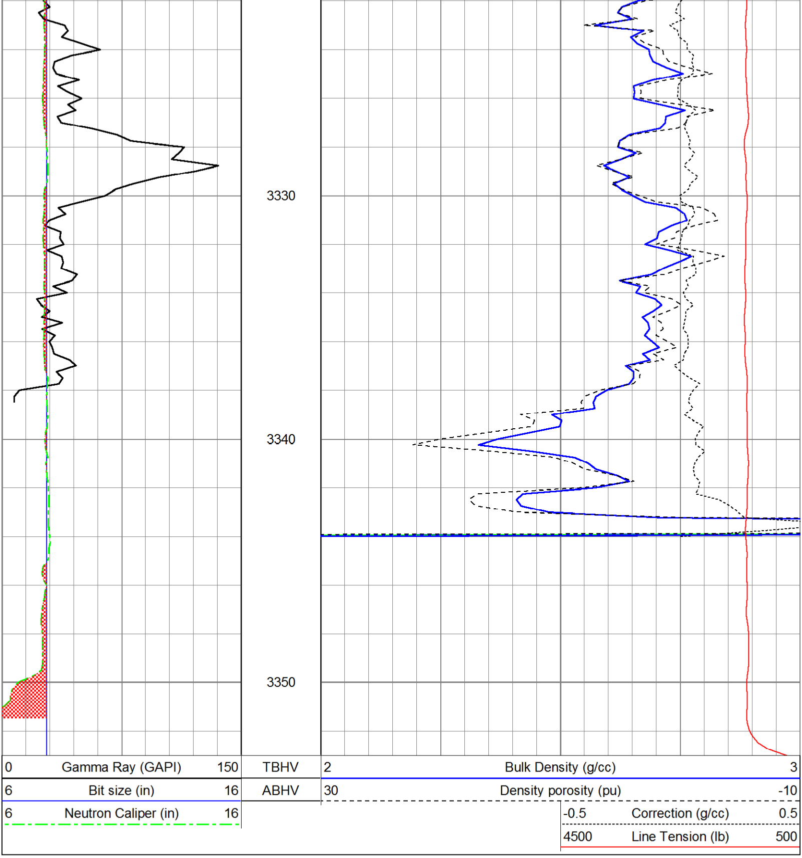












Calibration Report

Database File: ow2-7046 fossil creek.db
Dataset Pathname: CDL/pass3.7
Dataset Creation: Sun Jul 25 18:11:25 2010 by Calc Open-Cased 081212

Neutron Calibration Report

Serial Number: SWN-3015
Tool Model: PROBEOP
Performed: Tue Feb 02 12:50:39 2010

| | | | |
|---|---|---|---|
| Calibrator Values: | 2 | 24 | |
| Calibrator Readings: | 610 | 230 | cps |
| Sensitivity: | -0.0578947 | /cps | |

## Sidewall Neutron Calibration Report

Serial Number: SWN-3015
Tool Model: PROBEOP

### SWN Calibration

Sun Jun 13 14:33:21 1993

| Readings | | Target | | Normalization |
|---|---|---|---|---|
| 1.00 | cps | 1.00 | cps | 1.0000 |

### Caliper Calibration

Sun Jun 13 14:33:21 1993

| Readings | Reference | Gain | Offset |
|---|---|---|---|
| 2.19 | 5.60 | 2.12 | 4.00 |
| 5.13 | 11.75 | | |

## Compensated Density Calibration Report

Serial-Model: 3007-GOI
Source / Verifier: /
Master Calibration Performed: Fri Feb 19 09:40:57 2010
Before Survey Verification Performed:
After Survey Verification Performed:

### Master Calibration

| | Density | | Far Detector | Near Detector | |
|---|---|---|---|---|---|
| Magnesium | 1.850 | g/cc | 822.20 | 729.87 | cps |
| Aluminum | 2.605 | g/cc | 227.02 | 500.82 | cps |

Spine Angle = 73.69

Density/Spine Ratio = 0.563

| | Size | | Reading | |
|---|---|---|---|---|
| Small Ring | 5.75 | in | 2.05 | V |
| Large Ring | 11.25 | in | 5.04 | V |

### Before Survey Verification

| Target | | Measured | |
|---|---|---|---|
| | g/cc | | g/cc |
| | g/cc | | g/cc |
| | g/cc | | g/cc |

### After Survey Verification

| Target | | Measured | |
|---|---|---|---|
| | g/cc | | g/cc |
| | g/cc | | g/cc |
| | g/cc | | g/cc |

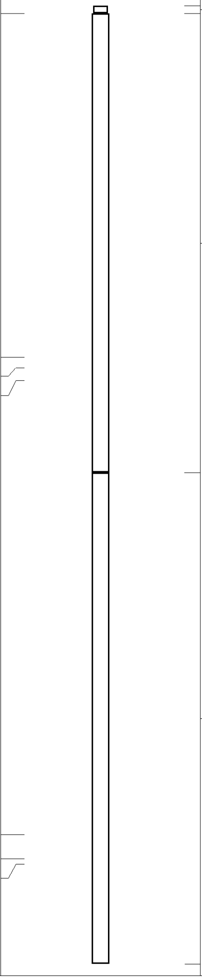
## Gamma Ray Calibration Report

Serial Number: 2122
Tool Model: GOI
Performed: Tue Feb 02 12:50:27 2010

Calibrator Value: 130.0 GAPI

Background Reading: 7.0 cps
Calibrator Reading: 118.0 cps

Sensitivity: 1.0360 GAPI/cps

| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|---|---|---|
| GR | 15.00 |  | OHGR-GOI (2122) | 0.13 | 3.25 | |
| | | | CDL-GOI (3007) | 7.25 | 4.00 | 100.00 |
| DCAL | 9.58 | | | | | |
| LSD | 9.42 | | | | | |
| SSD | 9.21 | | | | | |
| | | | OHNEU-PROBEOP (SWN-3015) | 7.75 | 4.00 | 100.00 |
| SCAL | 2.04 | | | | | |
| SWN | 1.65 | | | | | |
| NEU | 1.57 | | | | | |

| | |
|---|---|
| Dataset: | ow2-7046 fossil creek.db: field/well/CDL/pass3.7 |
| Total Length: | 15.13 ft |
| Total Weight: | 200.00 lb |
| O.D. | 4.00 in |