Pioneer Energy Services

# RADIAL SECTOR BOND LOG WITH GAMMA RAY/CCL

| | |
|---|---|
| Company | ENCANA OIL & GAS (USA) INC. |
| Well | NEWNAM 2K-32H C264 |
| Field | WATTENBERG |
| County | WELD |
| State | CO |

Location: API # : 05-123-40228
SHL: 308' FNL & 1647' FWL NENW
SEC 32 TWP 2N RGE 64W

Other Services
NONE

| | | | Elevation |
|---|---|---|---|
| Permanent Datum | GL | Elevation 4955' | K.B. 4968' |
| Log Measured From | KB | | D.F. 4967' |
| Drilling Measured From | KB | | G.L. 4955' |

CompanyENCANA OIL & GAS (USA) INC.
Well NEWNAM 2K-32H C264
Field WATTENBERG
County WELD State CO

| | |
|---|---|
| Date of Service | FEBRUARY 8, 2015 |
| Run Number | 1 |
| Depth Driller or PBTD | 11388' |
| Depth Logger | 6913' |
| Bottom Log Interval | 6913' |
| Top Log Interval | Surface |
| Open Hole Size | 8.75" |
| Type Fluid | WBM |
| Fluid Level | 30' |
| Fluid Density | 10.9# |
| Max. Recorded Temperature | N/A |
| Max. Wellhead Pressure | 0 PSI |
| Wellhead Connection | 7" |
| Estimated Cement Top | SURFACE |
| Unit Number | P-36 |
| Wireline Size | 7/16" |
| Location | FT. MORGAN |
| Recorded By | SHAUN STUMP |
| Witnessed By | RICH BORNER |

| | Size | Wt/Ft | Top | Bottom |
|---|---|---|---|---|
| Tubing Record | N/A | N/A | N/A | N/A |
| Surface Casing | N/A | N/A | N/A | N/A |
| Production Casing | 7" | 26# | SURFACE | 7390' |
| Liner Record | N/A | N/A | N/A | N/A |

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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.

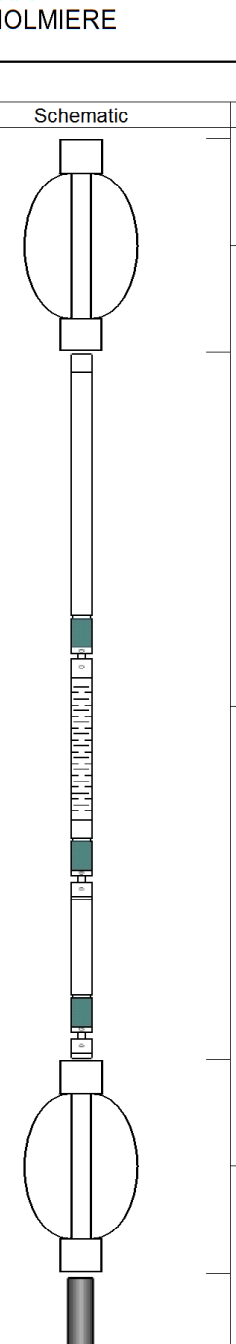
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
LOGGED UNDER 0 PSI
DEPTH CORRELATED TO 7" TALLY
ENSIGN RIG #124
THANK YOU FOR USING PIONEER ENERGY SERVICES
SO# 2-013956

THANK YOU FOR USING PIONEER ENERGY SERVICES

| Your Pioneer Energy Services Crew | Tool Data - Services | Serial Number |
|---|---|---|
| Engineer: SHAUN STUMP | PROBE RADII BOND | 11206 |
| Operator: MIKE GARCIA | PROBE CCL/GAMMA | 51013 |
| Operator: MARCUS HOLMIERE | | |
| Operator: NA | | |

| Sensor | Offset (ft) |
|---|---|
| IntTemp | 14.66 |
| WVF3FT | 11.41 |
| WVFCAL | 11.41 |
| WVFS1 | 11.41 |
| WVFS2 | 11.41 |
| WVFS3 | 11.41 |
| WVFS4 | 11.41 |
| WVFS5 | 11.41 |
| WVFS6 | 11.41 |
| WVFS7 | 11.41 |
| WVFS8 | 11.41 |
| WVF5FT | 10.41 |
| CCL | 3.92 |
| GR | 1.13 |



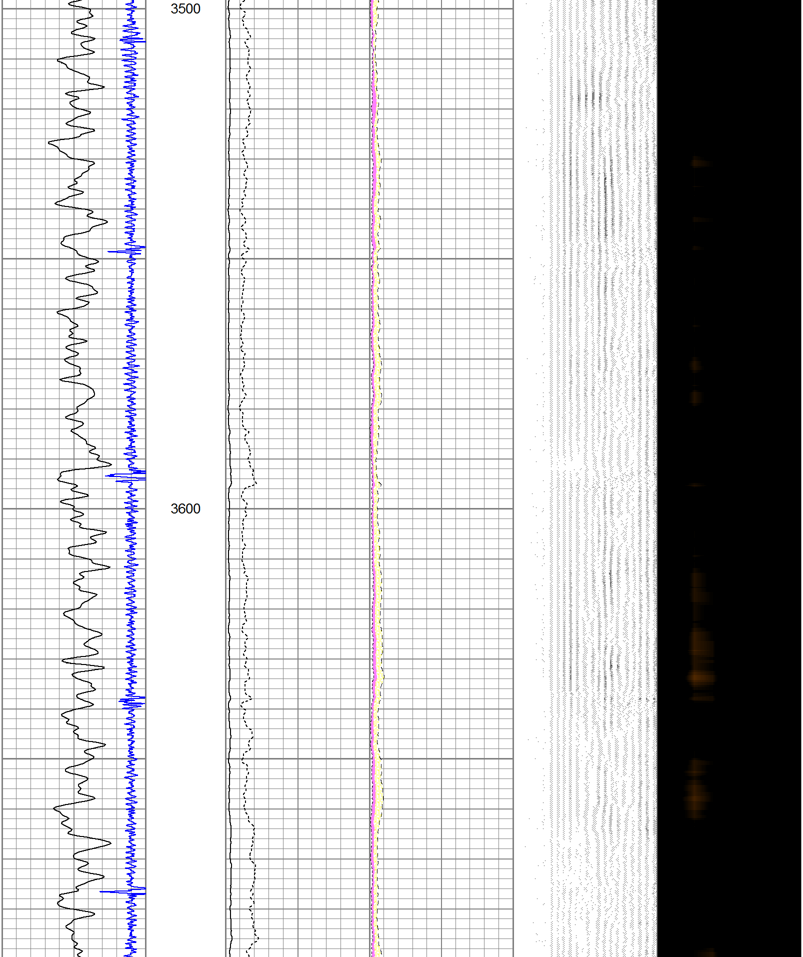
| Description | Len (ft) | OD (in) | Wt (lb) |
|---|---|---|---|
| CENT #2 -A (1) | 2.83 | 2.75 | 20.00 |
| RBT-RBT-C3 (11206)<br>Probe Radii Bond Tool with Digital Telemetry | 9.33 | 2.75 | 90.00 |
| CENT-A (1) | 2.83 | 2.75 | 20.00 |
| GR-probe 2.75 (51013)<br>proble Digital CCL Gamma | 4.33 | 2.75 | 100.00 |

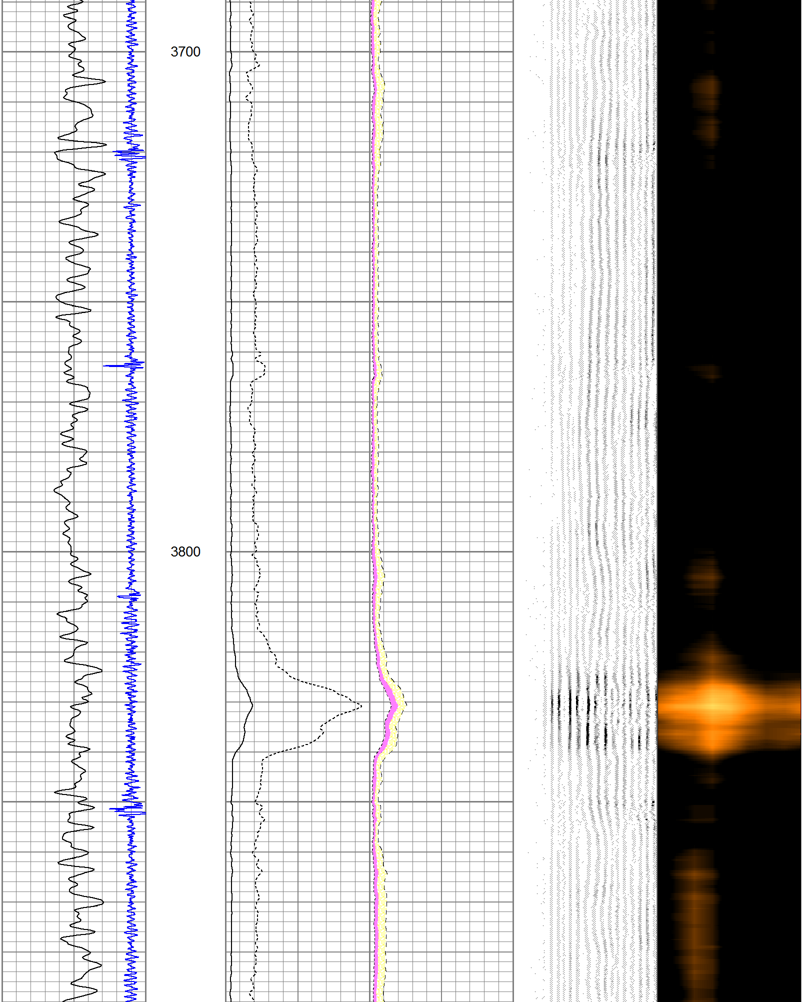
Dataset: 13956.db: field/well/run1/pass2
Total Length: 19.32 ft
Total Weight: 230.00 lb
O.D. 2.75 in

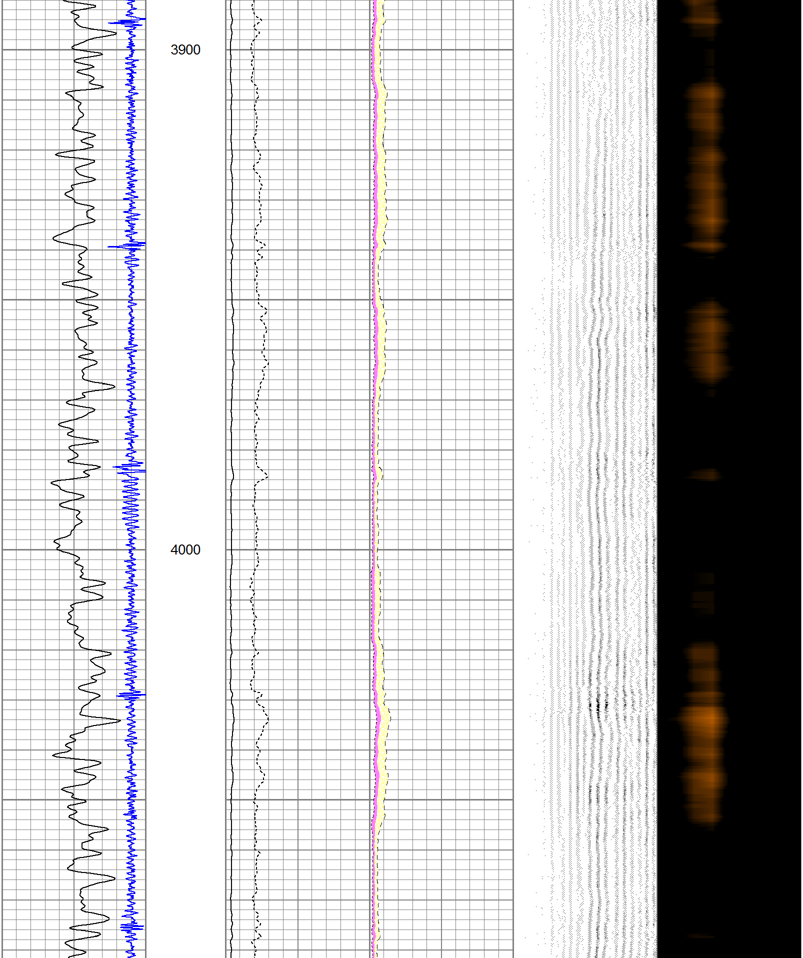
## MAIN PASS

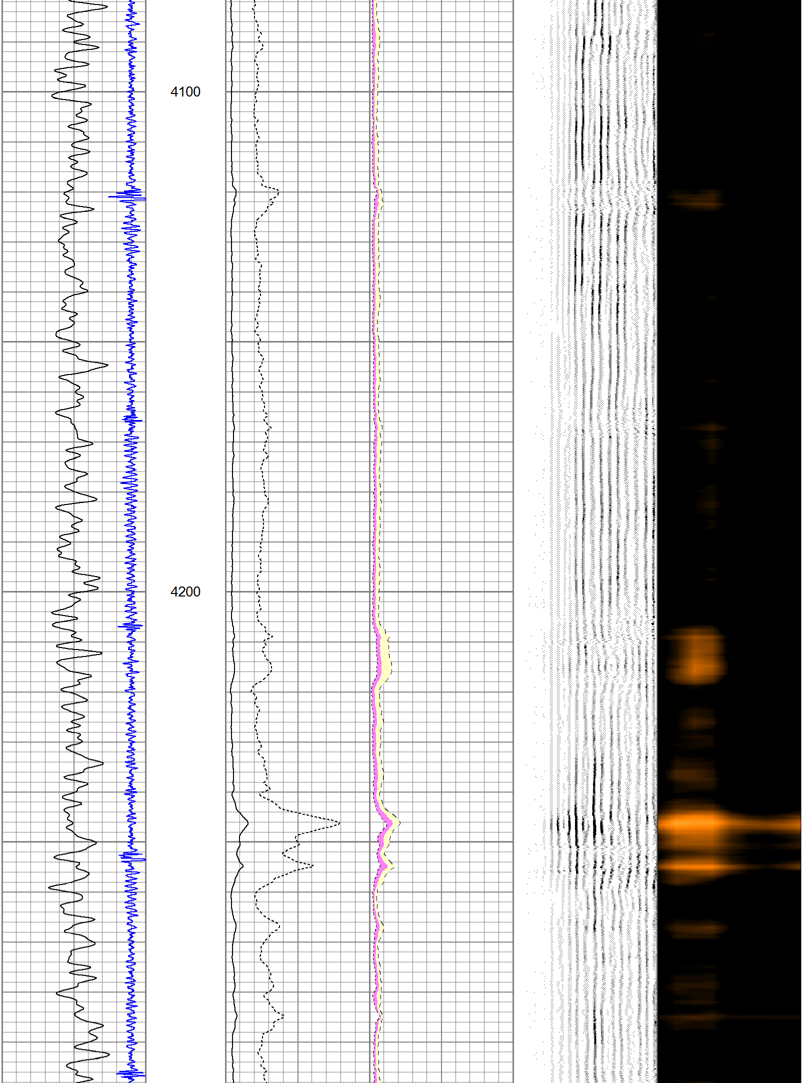
0 PSI ON WELL WHILE LOGGING

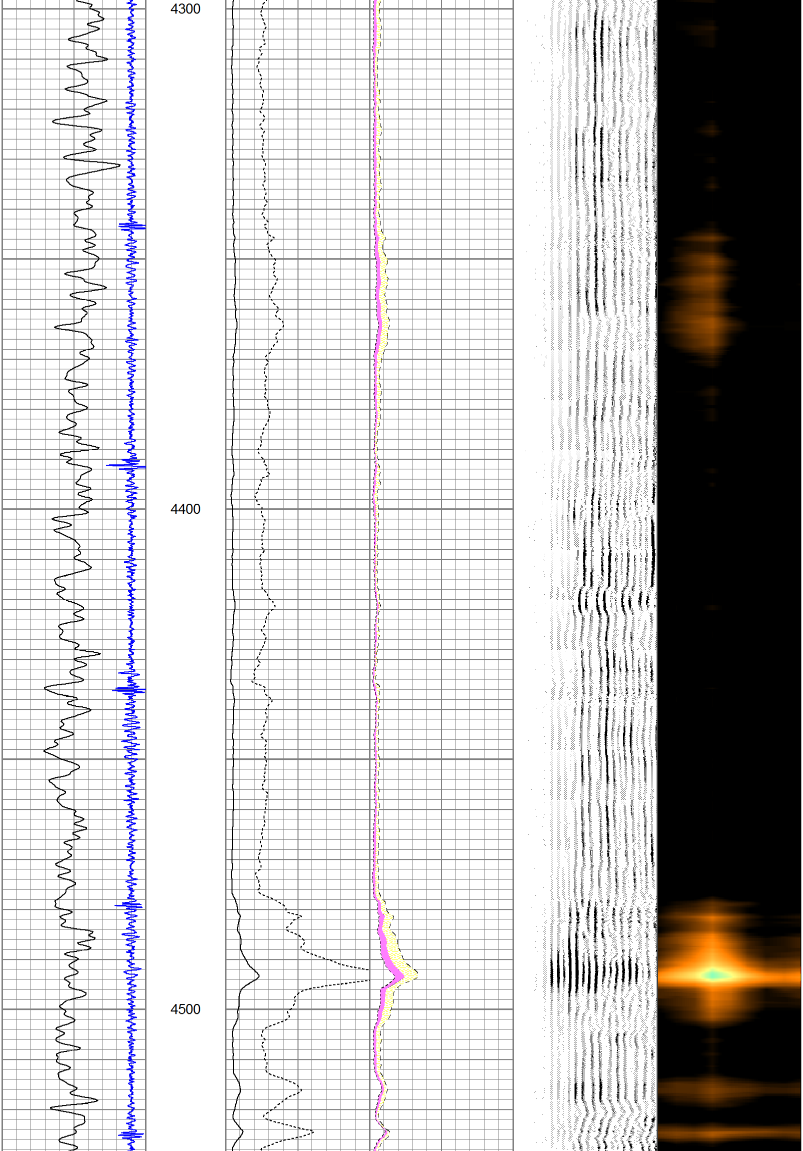
| | |
|---|---|
| Database File: | 13956.db |
| Dataset Pathname: | Final |
| Presentation Format: | scbl02 |
| Dataset Creation: | Sun Feb 08 07:54:48 2015 by Calc Open-Cased 110302 |
| Charted by: | Depth in Feet scaled 1:240 |

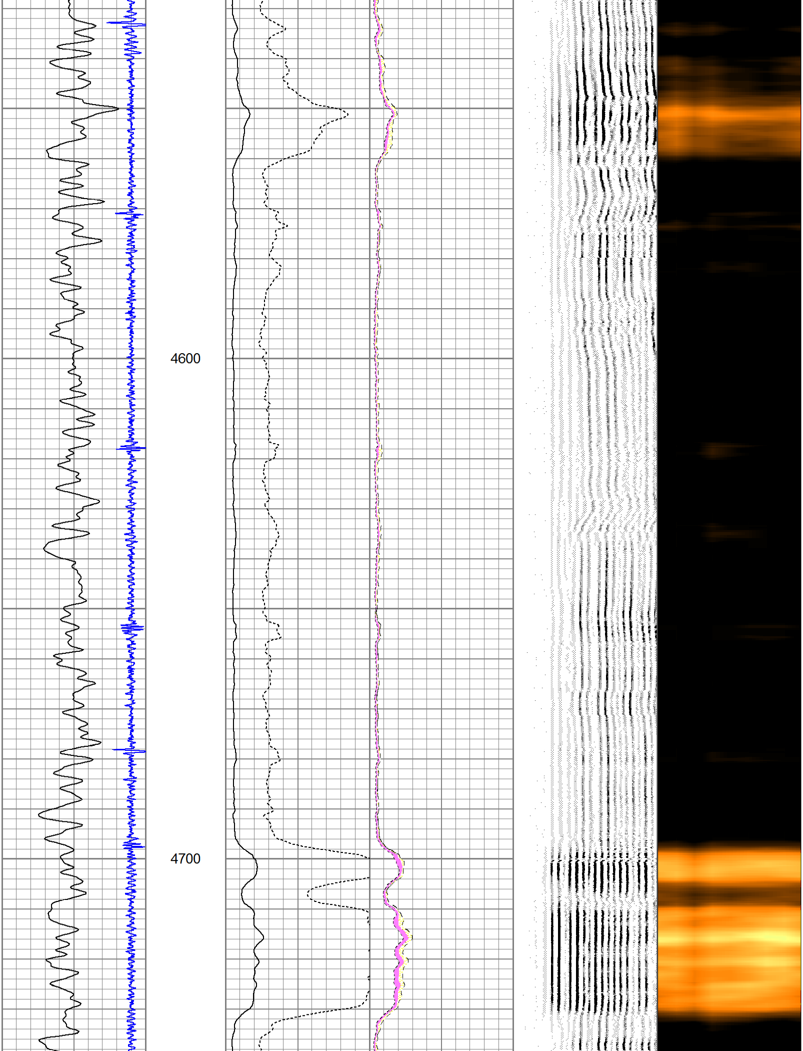


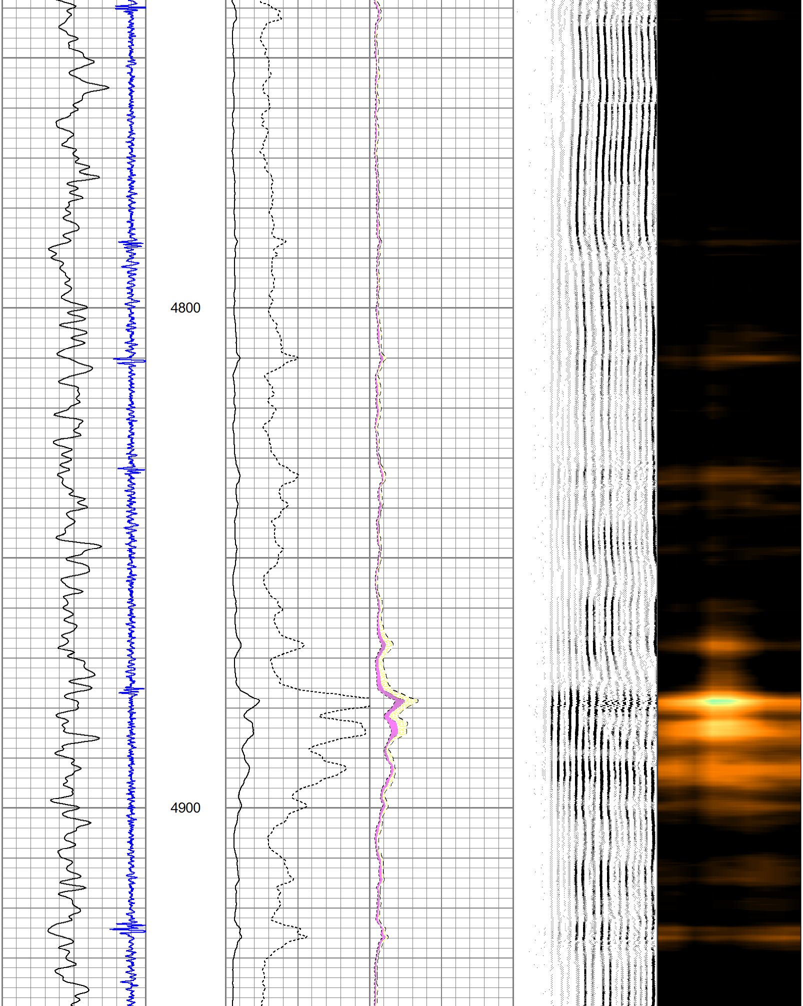


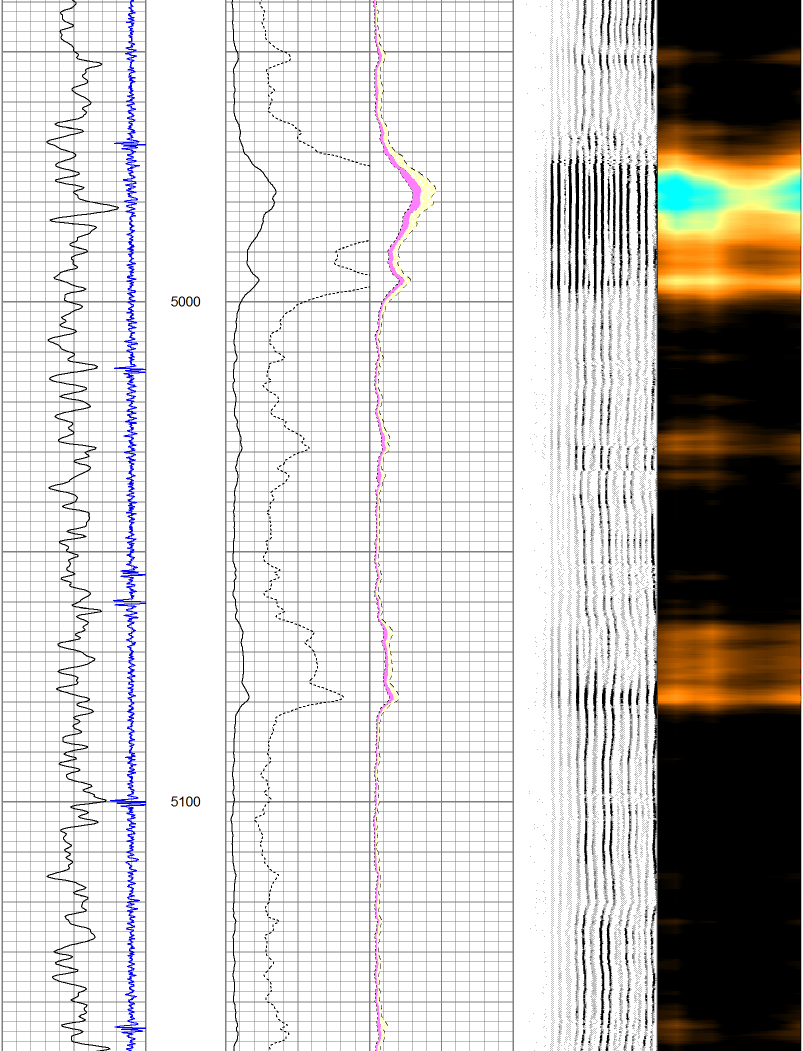


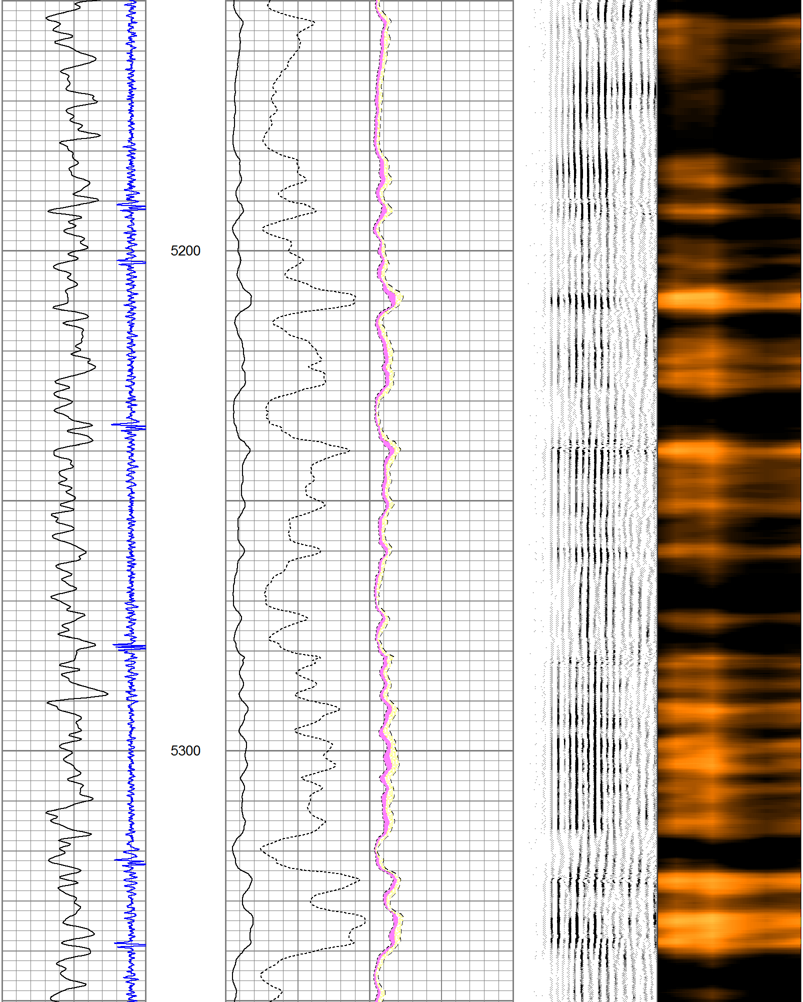


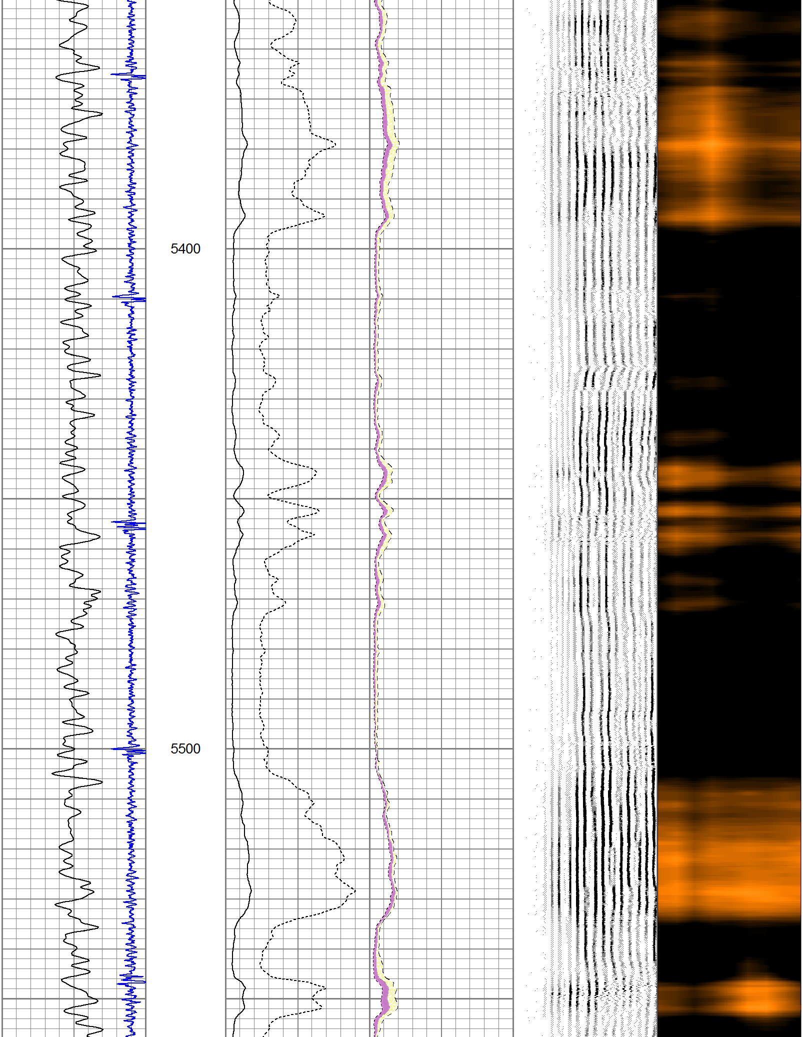


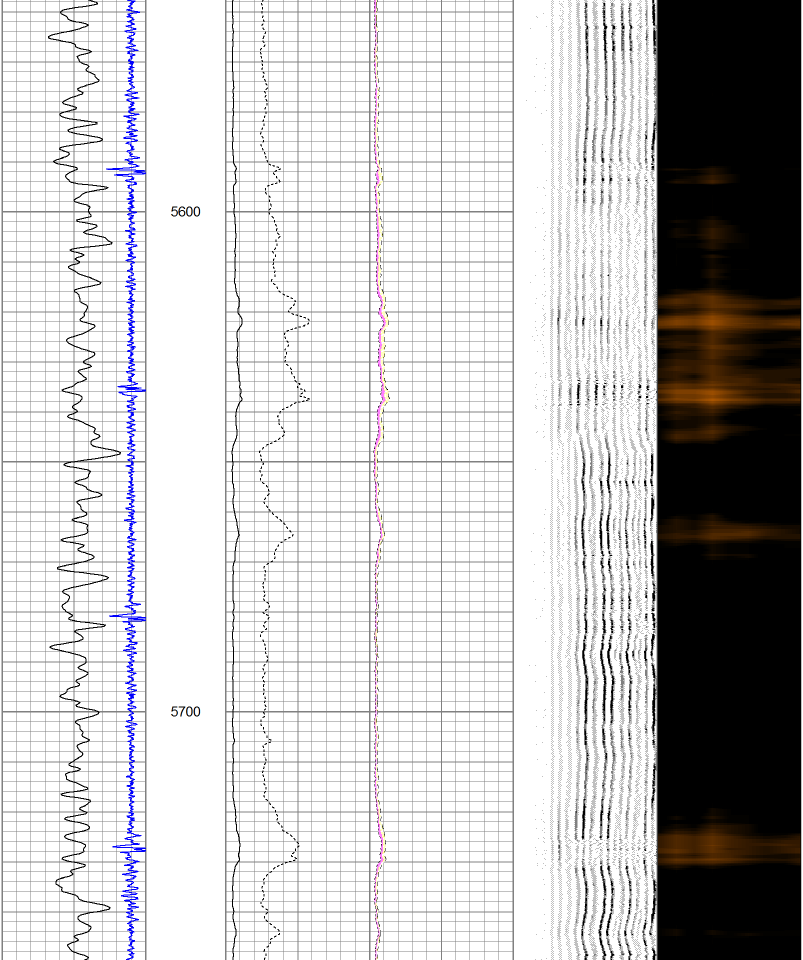


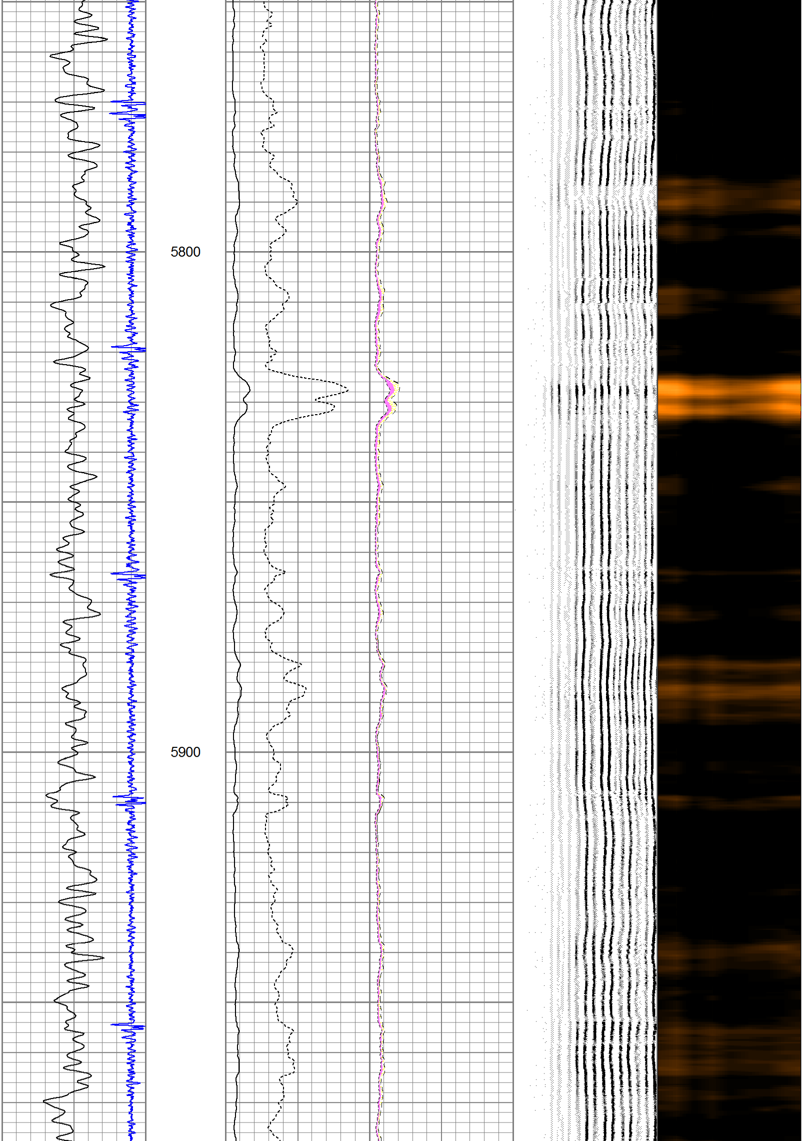


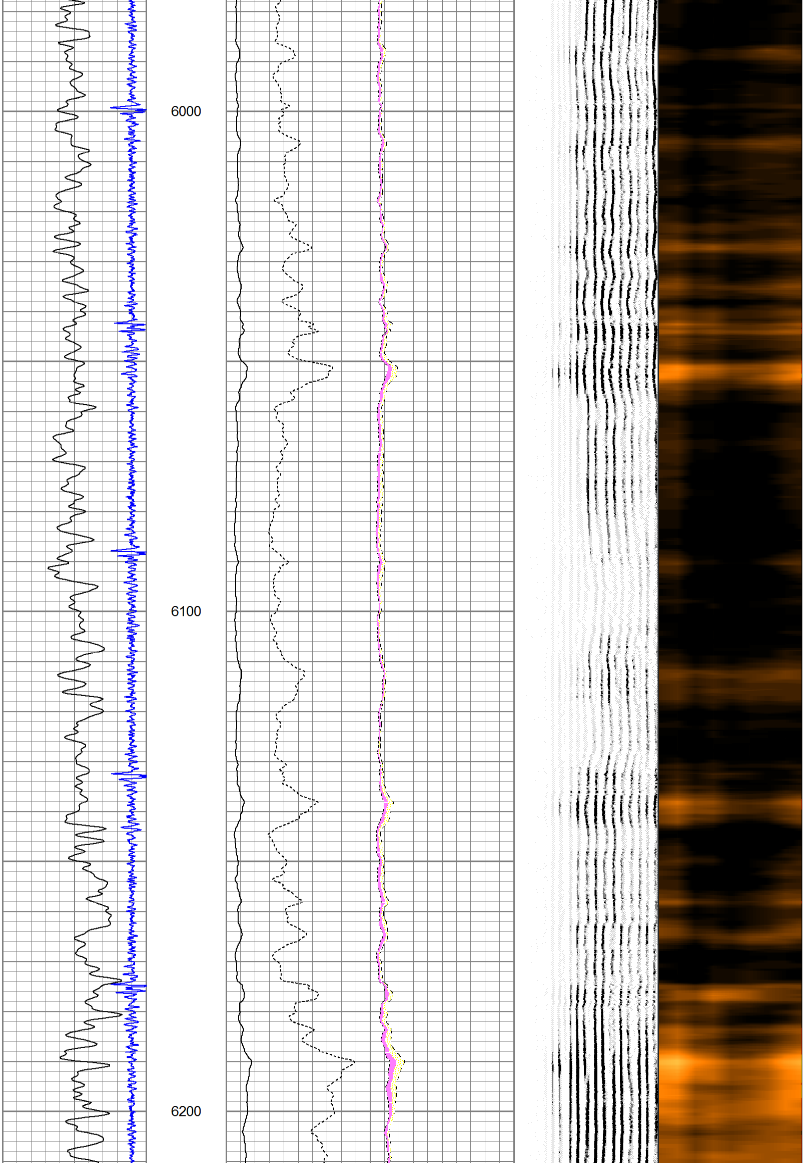


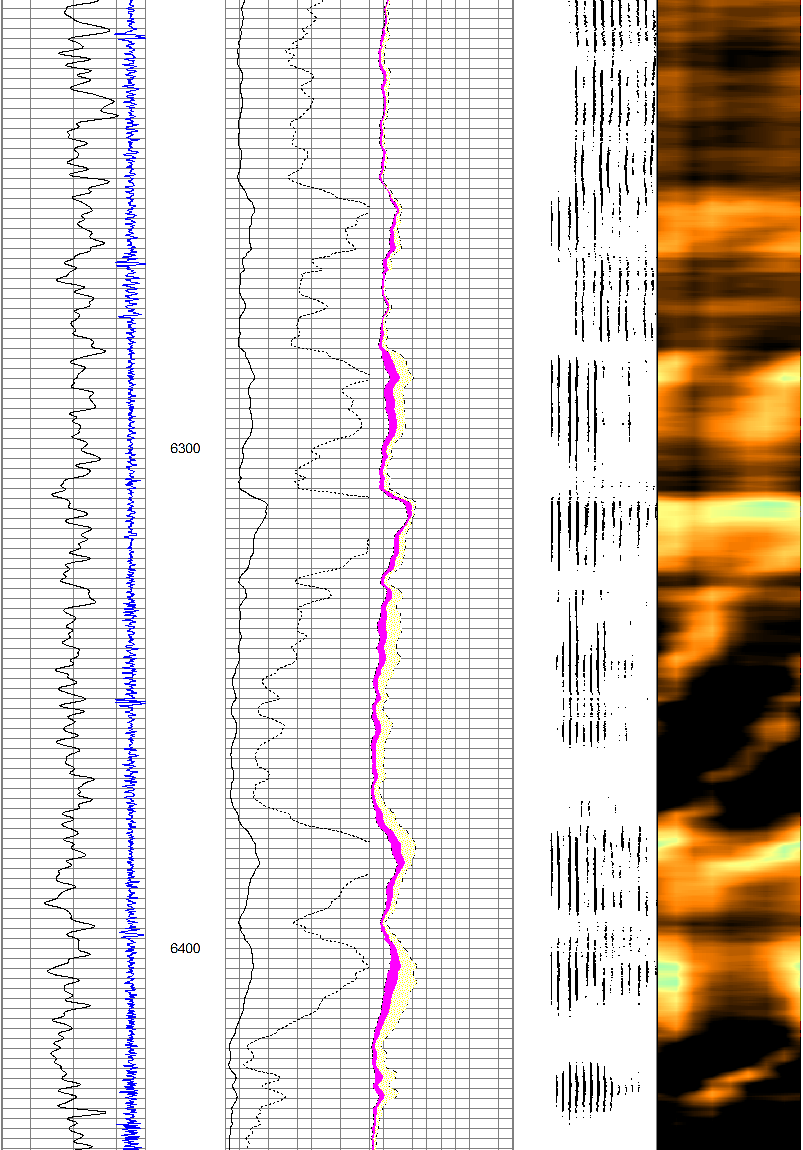


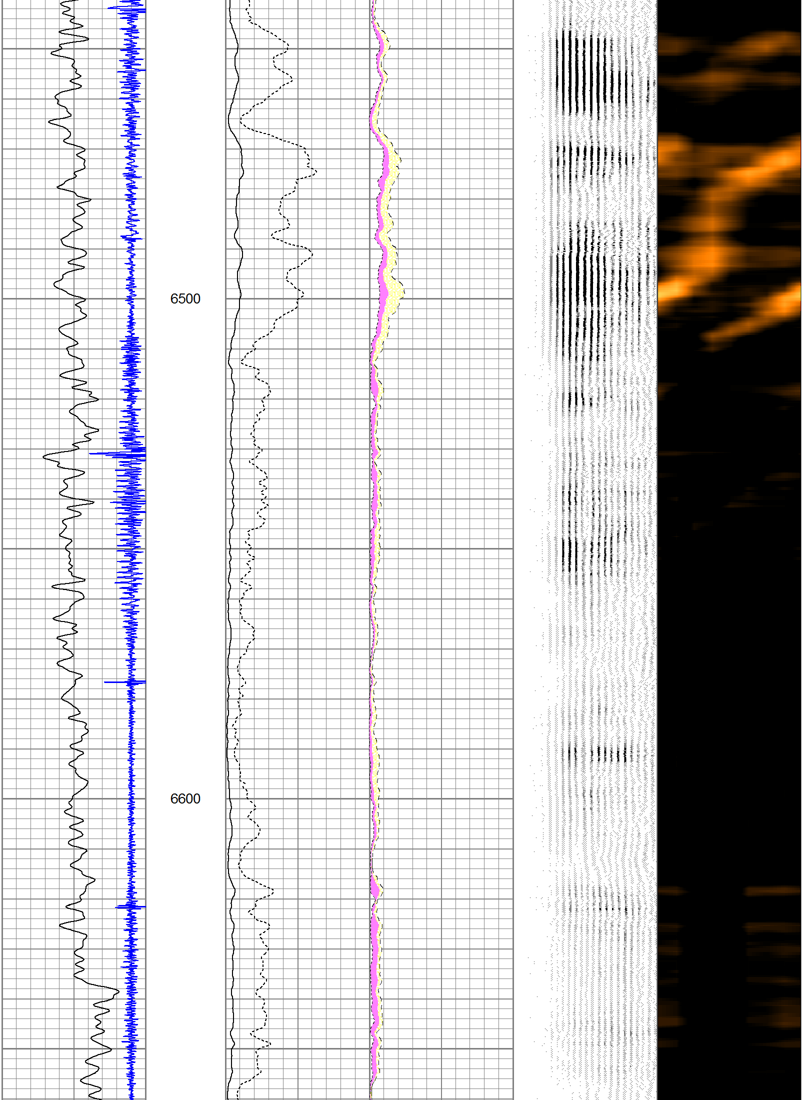


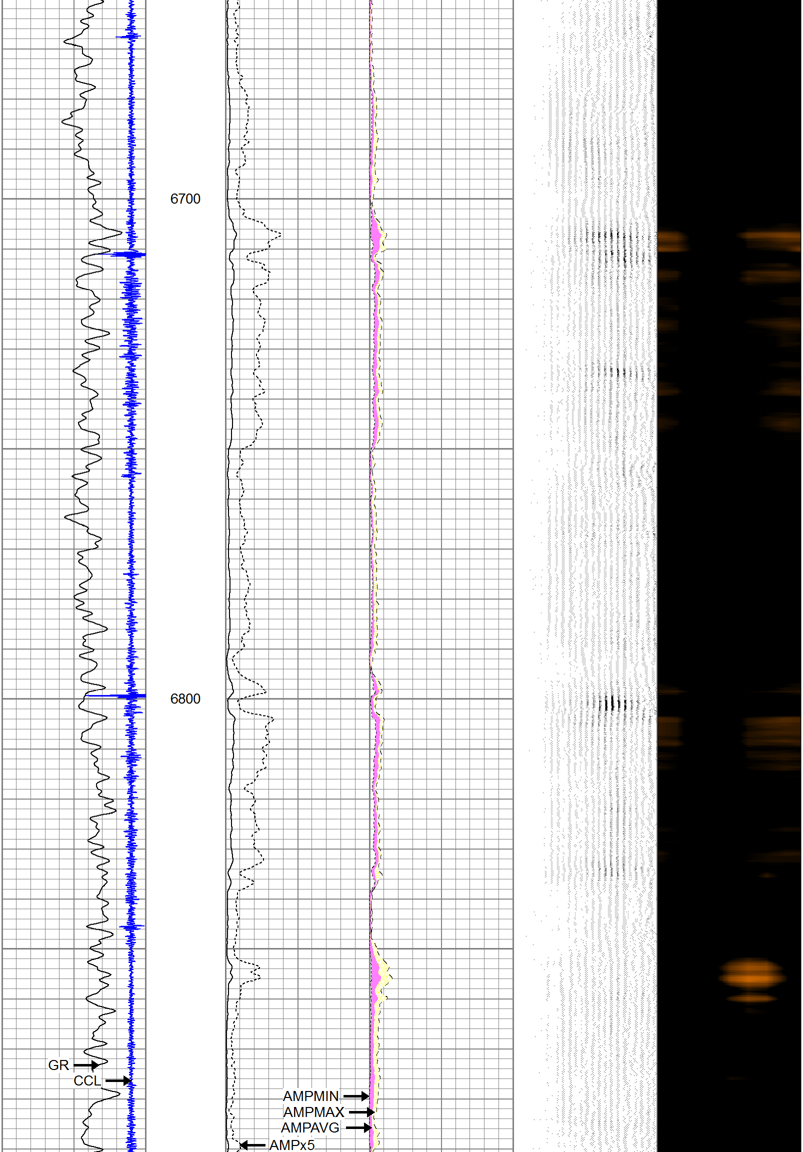


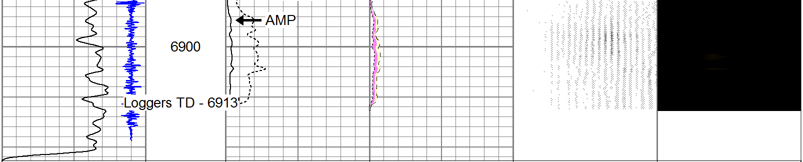












| -9 CCL 1 | | 0 AMP (mV) 100 | 0 AMPAVG 150 | 200 VDL 1200 | 1 SECTOR MAP 8 |
|---|---|---|---|---|---|
| 0 GR (GAPI) 200 | | 0 AMPx5 (mV) 20 | 0 AMPMAX 150 | | 10 60 |
| | | | 0 AMPMIN 150 | | |

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# END OF MAIN PASS

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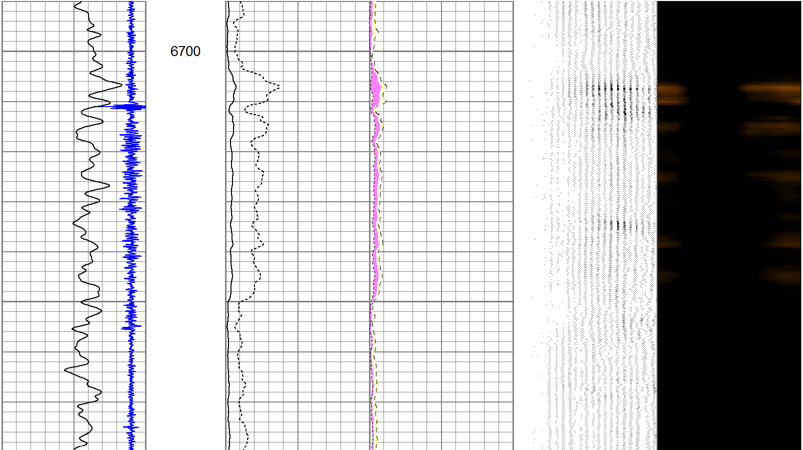
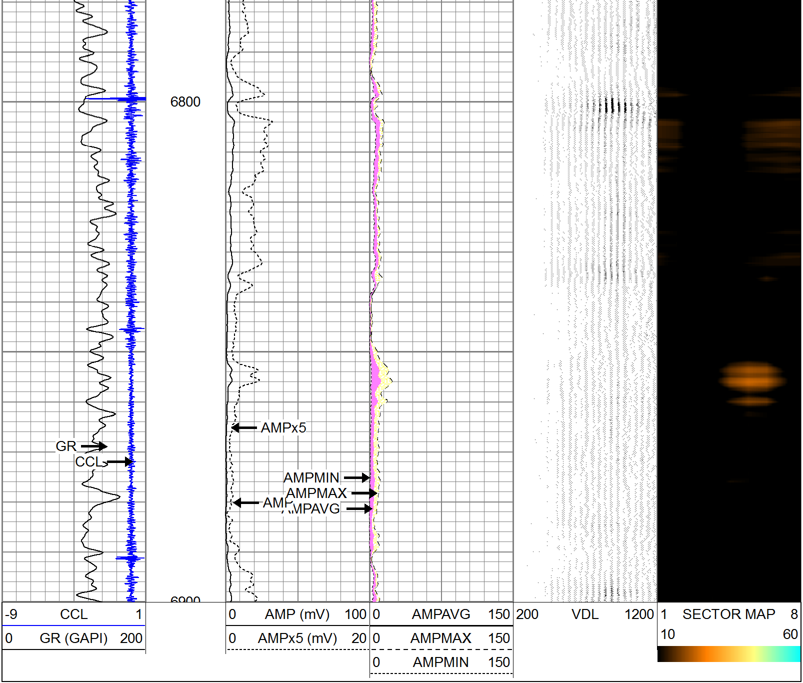
# REPEAT SECTION

## 0 PSI ON WELL WHILE LOGGING

Database File: 13956.db
Dataset Pathname: pass2.1
Presentation Format: scbl02
Dataset Creation: Sun Feb 08 07:52:51 2015 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

| -9 CCL 1 | | 0 AMP (mV) 100 | 0 AMPAVG 150 | 200 VDL 1200 | 1 SECTOR MAP 8 |
|---|---|---|---|---|---|
| 0 GR (GAPI) 200 | | 0 AMPx5 (mV) 20 | 0 AMPMAX 150 | | 10 60 |
| | | | 0 AMPMIN 150 | | |





# END OF REPEAT

Calibration Report

Database File: 13956.db
Dataset Pathname: pass2
Dataset Creation: Sun Feb 08 06:46:53 2015 by Log Open-Cased 110302

Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | 51013 | |
| Tool Model: | probe 2.75 | |
| Performed: | Fri Jan 30 06:09:47 2015 | |
| Calibrator Value: | 1400.0 | GAPI |
| Background Reading: | 26.8 | cps |
| Calibrator Reading: | 1120.0 | cps |
| Sensitivity: | 0.9000 | GAPI/cps |

# Segmented Cement Bond Log Calibration Report

| | | |
|---|---|---|
| Serial Number: | 11206 | |
| Tool Model: | RBT-C3 | |
| Calibration Casing Diameter: | 5.500 | in |
| Calibration Depth: | 1042.512 | ft |

## Master Calibration, performed Sat Feb 07 11:32:08 2015:

| | Raw (v) | | Calibrated (mv) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| 3' | -0.014 | 0.754 | 0.250 | 62.200 | 80.706 | 1.349 |
| CAL | 0.001 | 0.882 | | | | |
| 5' | 0.000 | 0.719 | 0.250 | 62.200 | 86.216 | 0.249 |
| SUM | | | | | | |
| S1 | -0.011 | 1.240 | 0.000 | 100.000 | 79.915 | 0.867 |
| S2 | -0.001 | 1.245 | 0.000 | 100.000 | 80.252 | 0.067 |
| S3 | -0.001 | 1.090 | 0.000 | 100.000 | 91.644 | 0.081 |
| S4 | -0.001 | 1.172 | 0.000 | 100.000 | 85.297 | 0.051 |
| S5 | -0.019 | 1.298 | 0.000 | 100.000 | 75.925 | 1.426 |
| S6 | -0.017 | 1.383 | 0.000 | 100.000 | 71.404 | 1.247 |
| S7 | -0.018 | 1.248 | 0.000 | 100.000 | 79.026 | 1.398 |
| S8 | -0.022 | 1.336 | 0.000 | 100.000 | 73.670 | 1.599 |

## Internal Reference Calibration, performed Fri Jan 30 08:10:19 2015:

| | Raw (v) | | Calibrated (v) | | Results | |
|---|---|---|---|---|---|---|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.909 | 0.001 | 1.020 | 1.122 | 0.000 |

## Air Zero Calibration, performed Fri Jan 30 07:19:30 2015:

| | Raw (v) | Calibrated (v) | Results |
|---|---|---|---|
| | Zero | Zero | Offset |
| 3' | 0.000 | 0.000 | 0.000 |
| 5' | 0.000 | 0.000 | 0.000 |
| SUM | | | |
| S1 | 0.000 | 0.000 | 0.000 |
| S2 | 0.000 | 0.000 | 0.000 |
| S3 | 0.000 | 0.000 | 0.000 |
| S4 | 0.000 | 0.000 | 0.000 |
| S5 | 0.000 | 0.000 | 0.000 |
| S6 | 0.000 | 0.000 | 0.000 |

|  |  |  |  |
|---|---|---|---|
| S6 | 0.000 | 0.000 | 0.000 |
| S7 | 0.000 | 0.000 | 0.000 |
| S8 | 0.000 | 0.000 | 0.000 |

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# RADIAL
# SECTOR BOND LOG
# WITH GAMMA RAY/CCL

Company: ENCANA OIL & GAS (USA) INC.

Well: NEWNAM 2K-32H C264

Field: WATTENBERG

County: WELD

State: CO

Crew: STUMP, GARCIA & HOLMIERE

Thank you for using Weatherford Intervention Services.