Company VESS OIL CORPORATION
Well WILSON "A" #455
Field EL DORADO
County BUTLER
State KANSAS

# COMPENSATED DENSITY/NEUTRON PE LOG

Company VESS OIL CORPORATION
Well WILSON "A" #455
Field EL DORADO
County BUTLER State KANSAS

**Location:** API # : 15-015-24065-0000
990' FSL & 2260' FWL
SEC 8 TWP 25S RGE 5E

Other Services
DIL/MEL

Permanent Datum GROUND LEVEL Elevation 1381
Log Measured From KELLY BUSHING 9' A.G.L
Drilling Measured From KELLY BUSHING

Elevation
K.B. 1390
D.F. 1388
G.L. 1381

| | | | |
|---|---|---|---|
| Date | 8/22/16 | | |
| Run Number | TWO | | |
| Depth Driller | 2124 | | |
| Depth Logger | 2422 | | |
| Bottom Logged Interval | 2420 | | |
| Top Log Interval | 250 | | |
| Casing Driller | 8 5/8 @ 263 | | |
| Casing Logger | 266 | | |
| Bit Size | 7 7/8 | | |
| Type Fluid in Hole | CHEMICAL MUD | CHLORIDES 500 PPM | |
| Density / Viscosity | 9.0/43 | | |
| pH / Fluid Loss | 9.0/7.6 | | |
| Source of Sample | FLOWLINE | | |
| Rm @ Meas. Temp | 1.50 @ 86F | | |
| Rmf @ Meas. Temp | 1.12 @ 86F | | |
| Rmc @ Meas. Temp | 1.80 @ 86F | | |
| Source of Rmf / Rmc | MEASUREMENT | | |
| Rm @ BHT | 1.26 @ 102F | | |
| Time Circulation Stopped | 2 HOURS | | |
| Time Logger on Bottom | | | |
| Maximum Recorded Temperature | 102F | | |
| Equipment Number | 3802 | | |
| Location | HAYS, KANSAS | | |
| Recorded By | JASON CAPPELLUCCI | | |
| Witnessed By | ROGER MARTIN | | |

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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 ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395
DIRECTIONS
POTWIN, KS. - 5 MILES SOUTHEAST ON HWY 196 TO RD. 40 - 2 EAST
TO GRAIN BIN - NORTH & WEST INTO

# MAIN SECTION

| | |
|---|---|
| Database File | 31280pe8.db |
| Dataset Pathname | pass7.1 |
| Presentation Format | _ldt_neu |
| Dataset Creation | Mon Aug 22 22:05:08 2016 |
| Charted by | Depth in Feet scaled 1:240 |

0 GAMMA RAY (GAPI) 150

6 CALIPER (in) 16

ABHV

10 (ft3) 0

TBHV

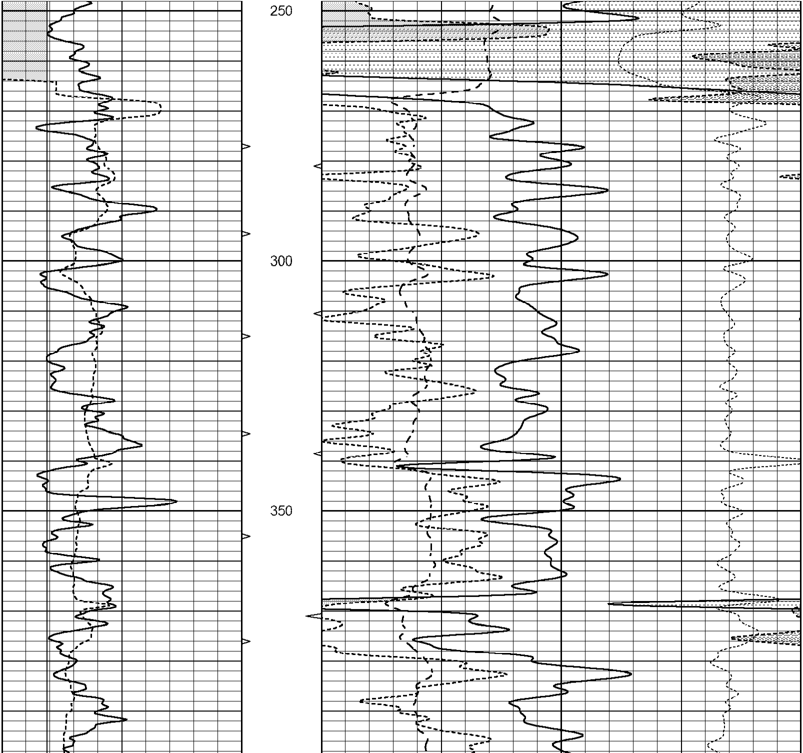
0 (ft3) 10

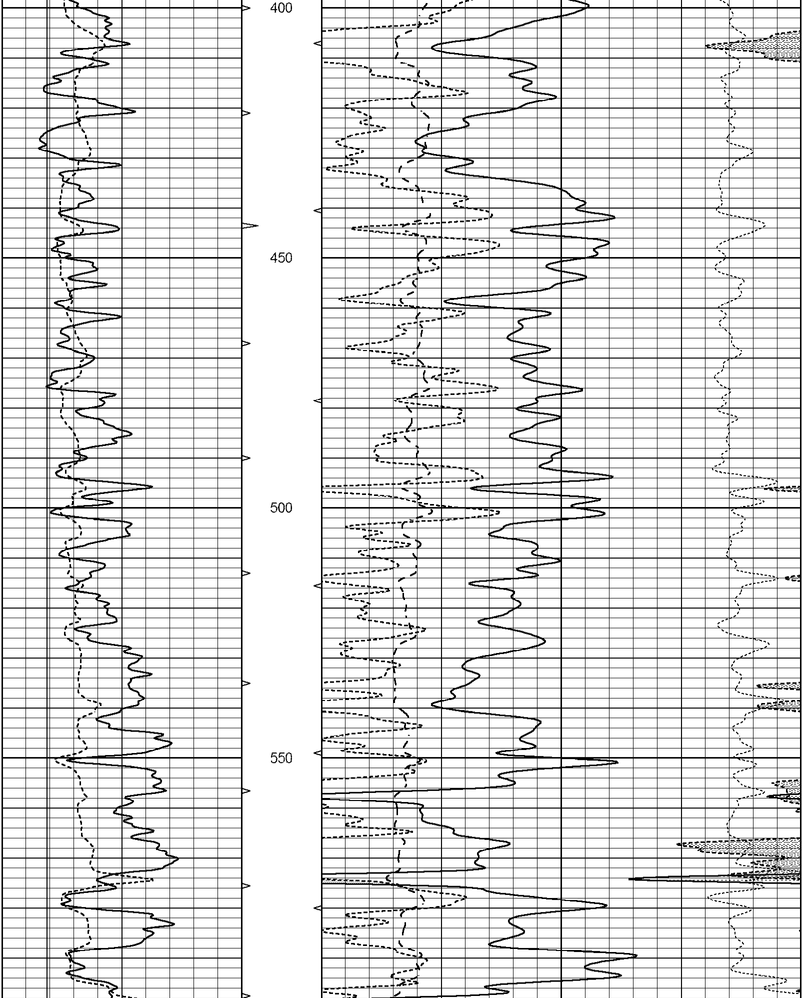
30 COMPENSATED DENSITY (pu) -10

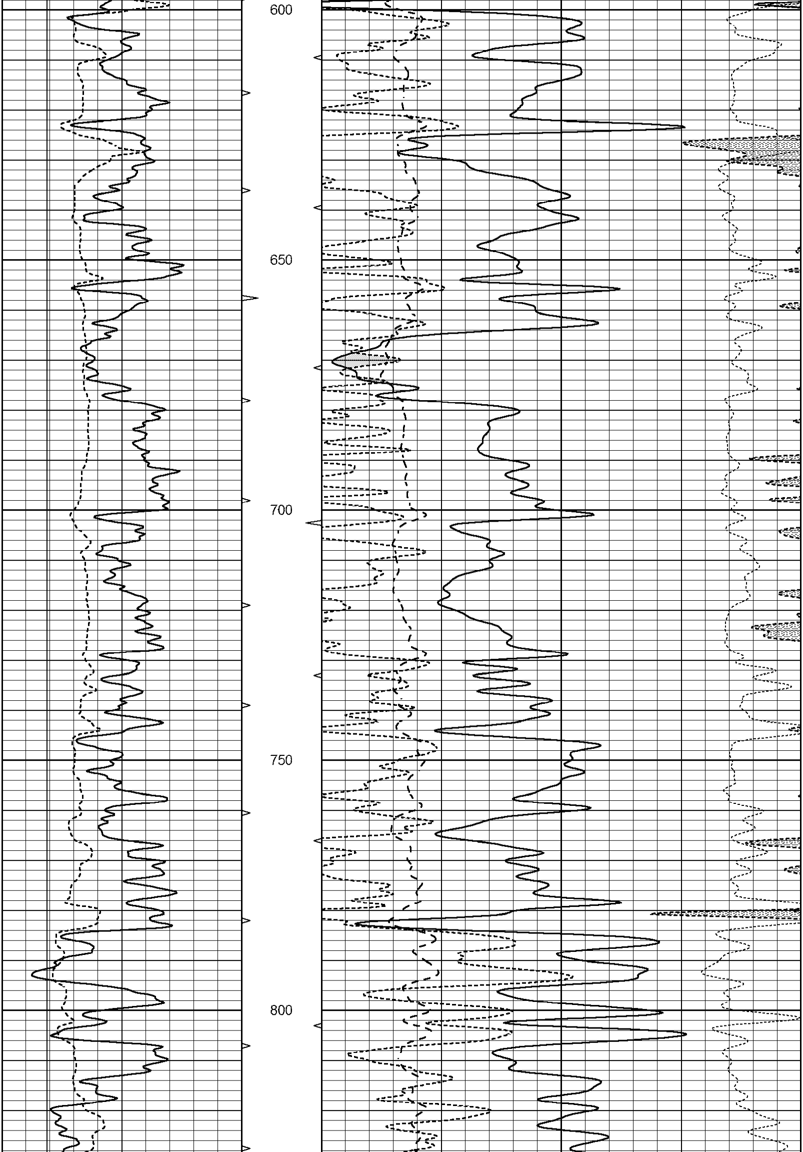
30 COMPENSATED NEUTRON (pu) -10

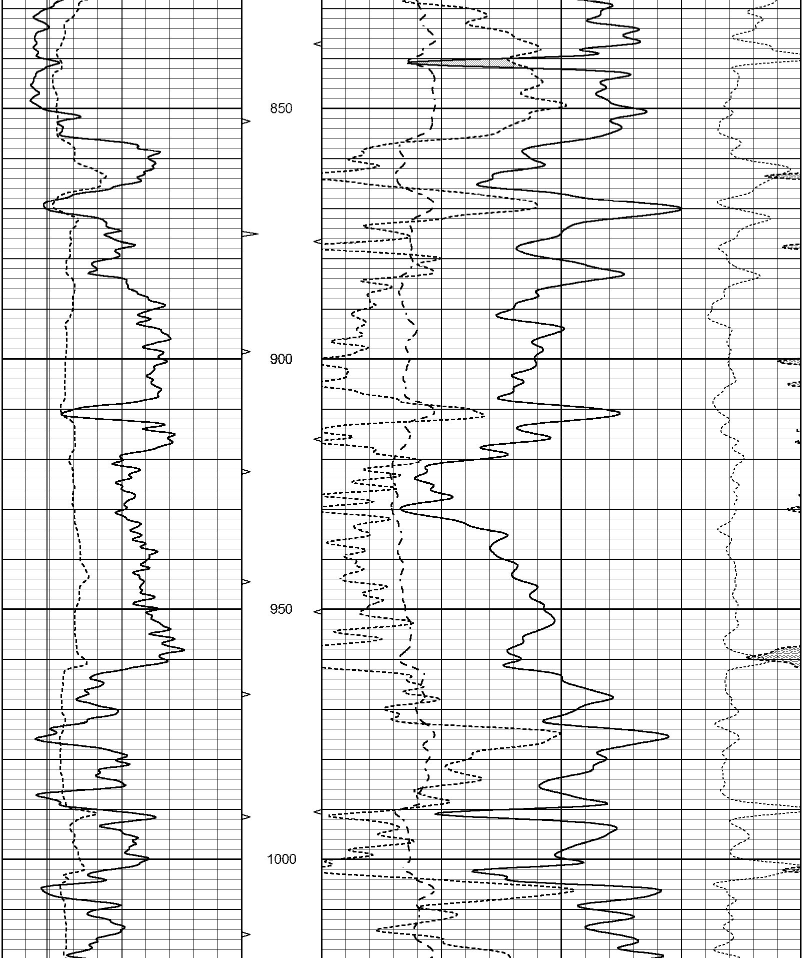
0 PE 10

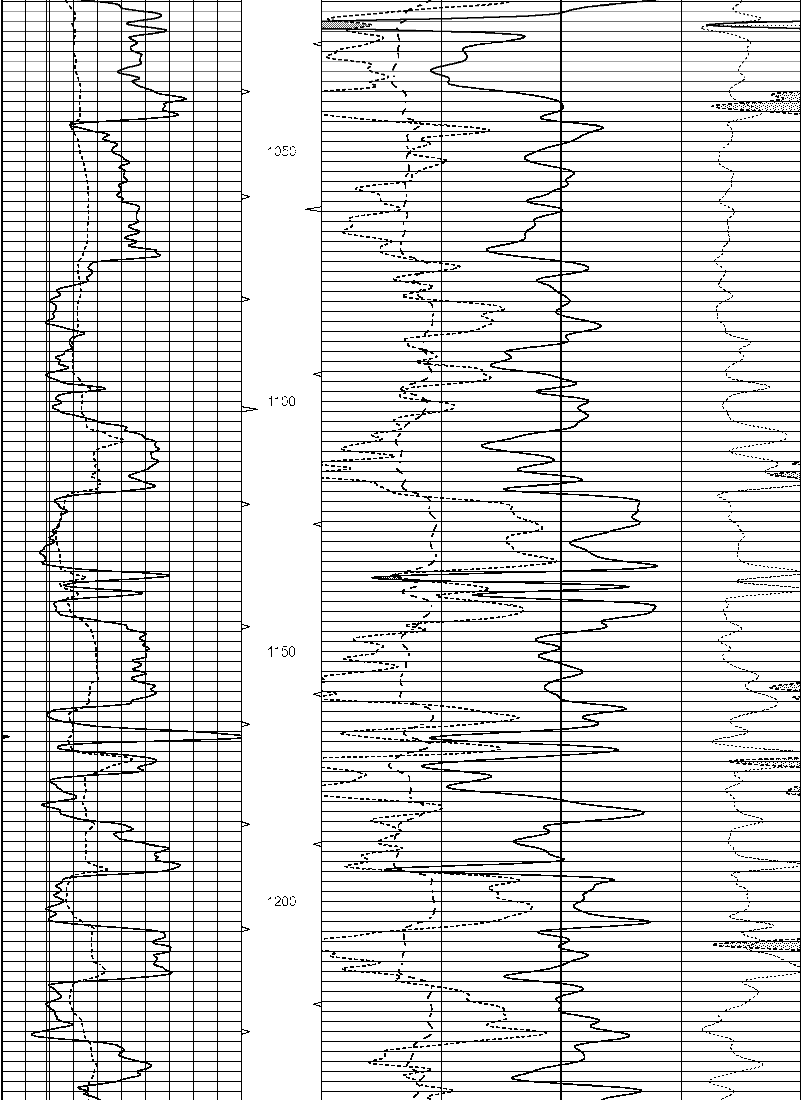
-0.25 CORRECTION (g/cc) 0.25

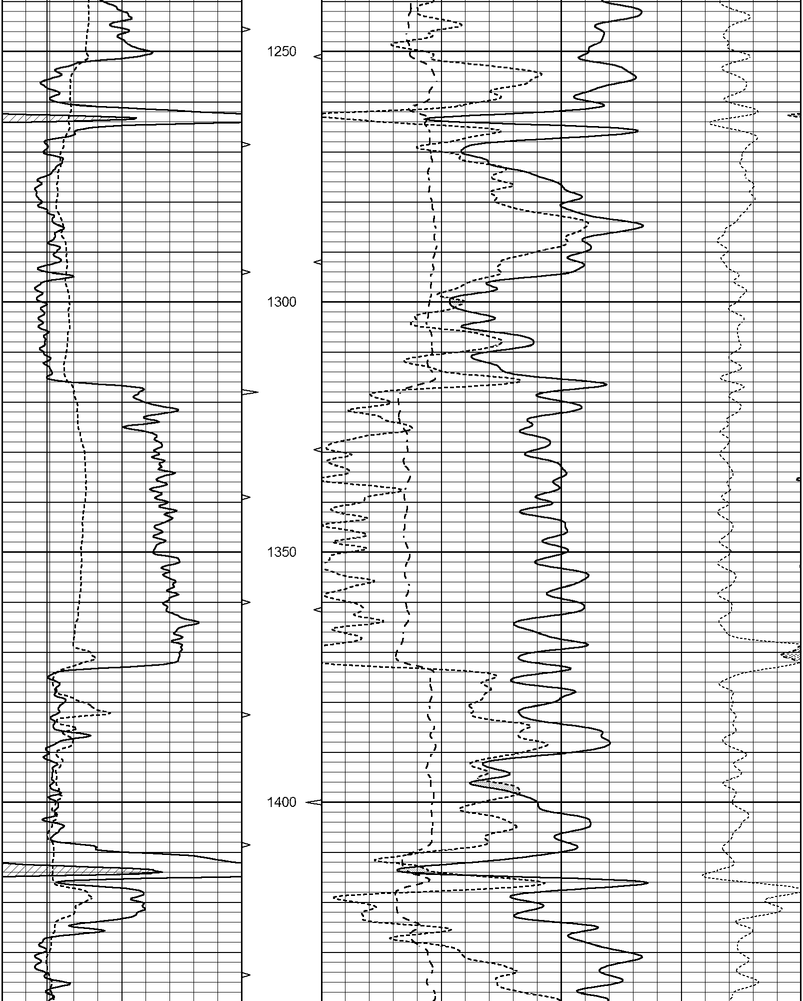


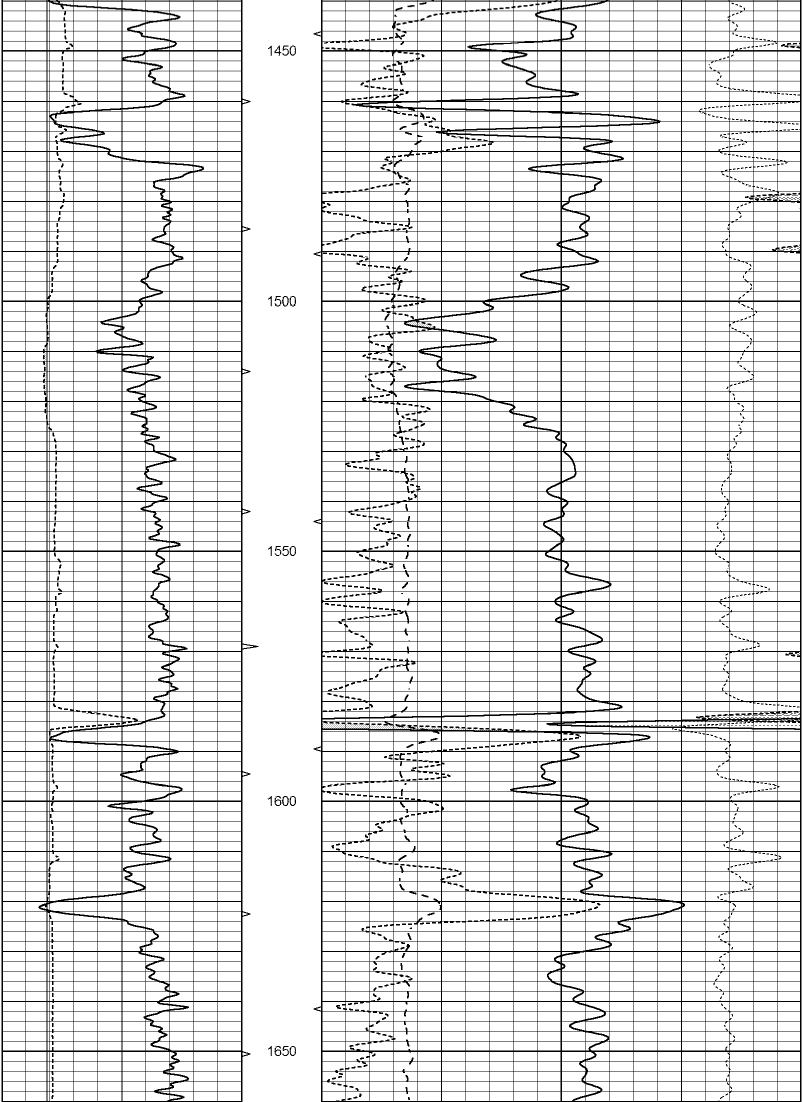


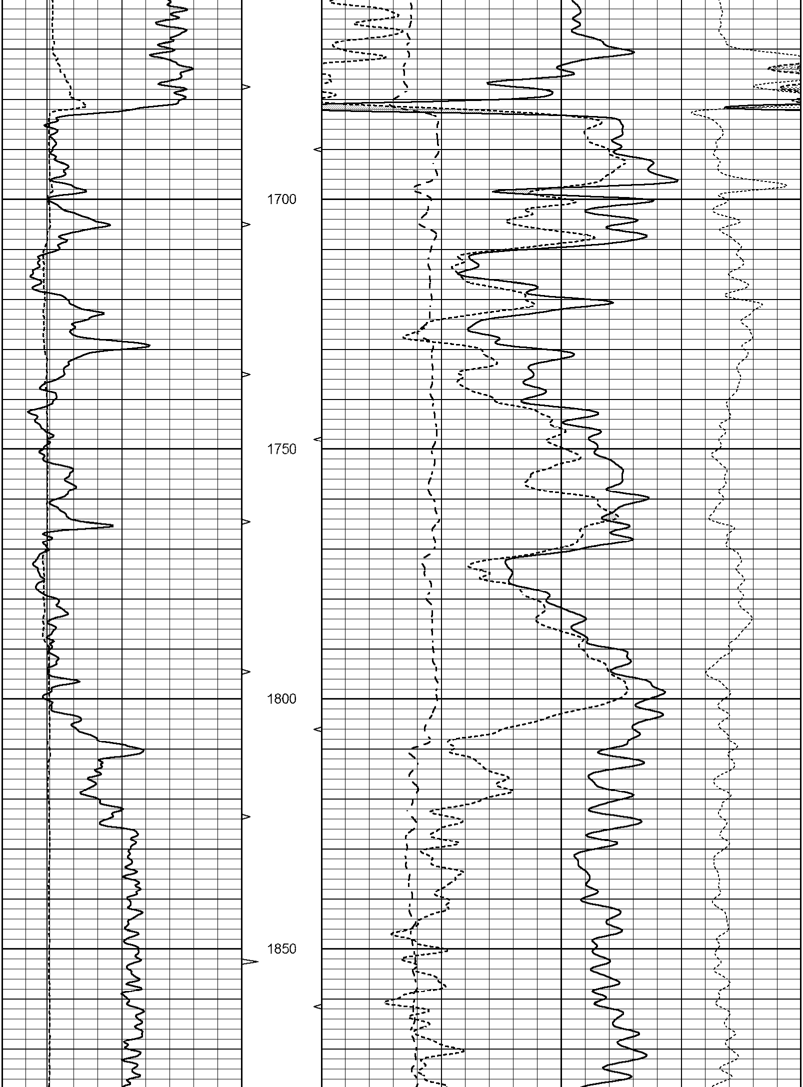


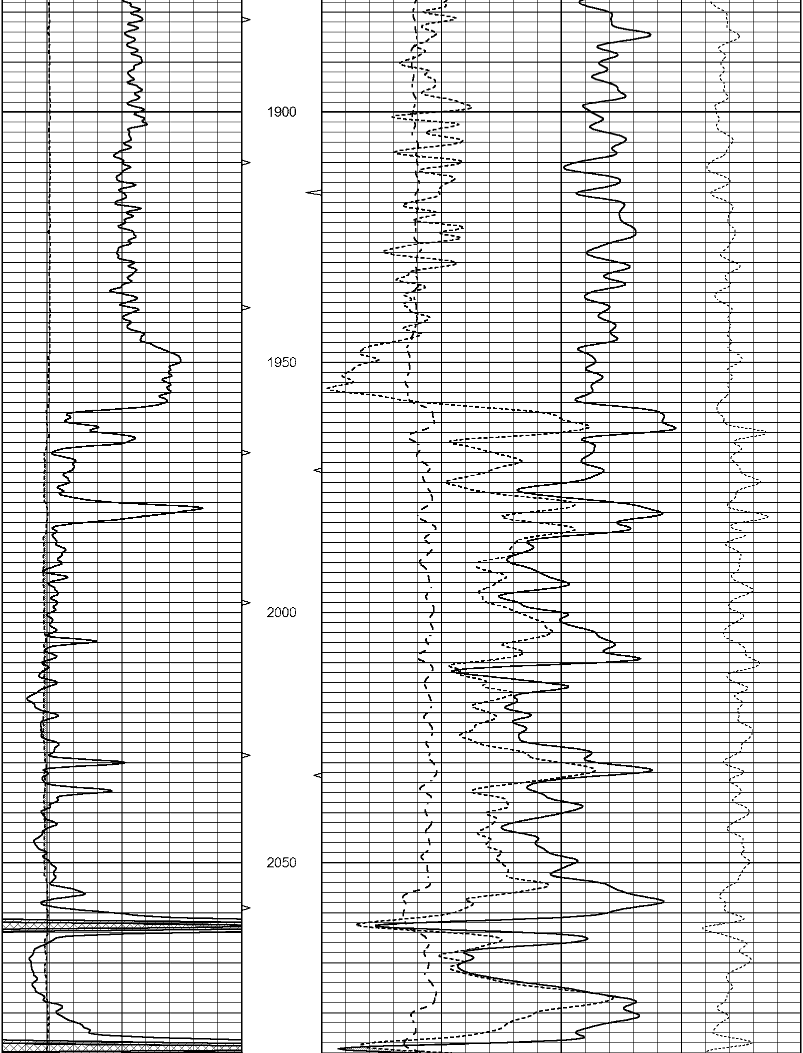


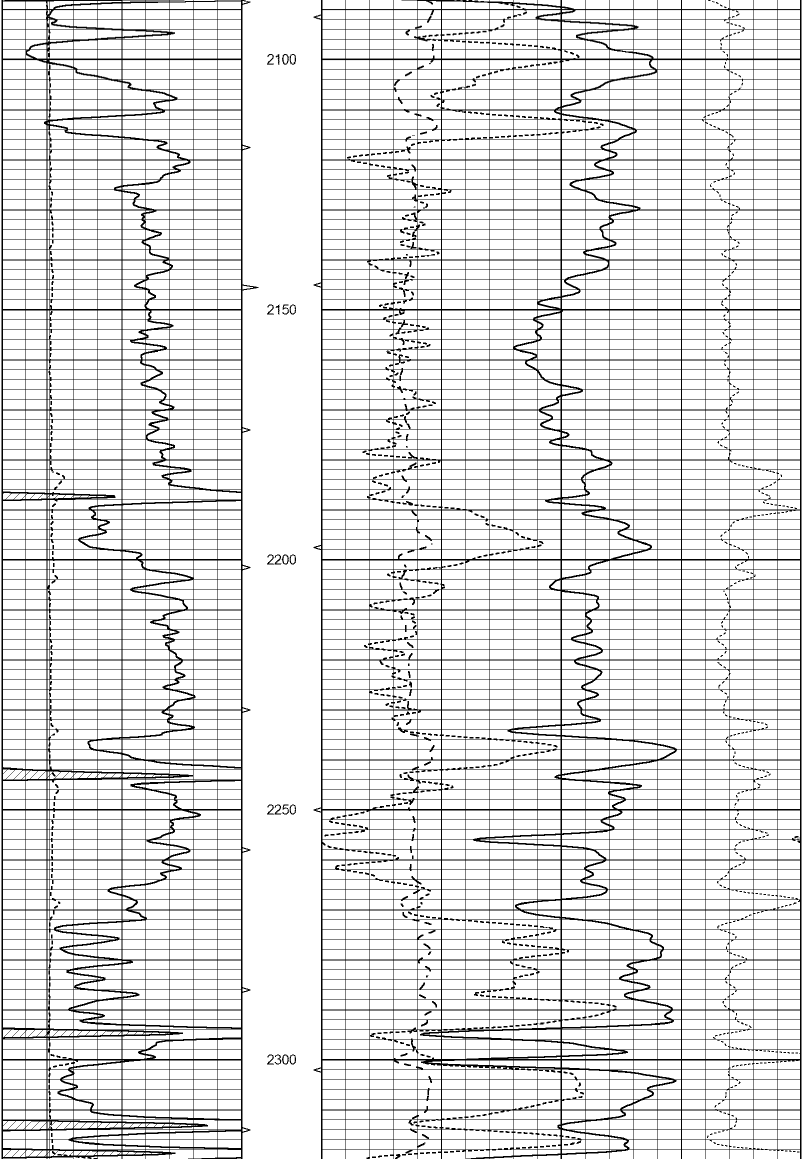


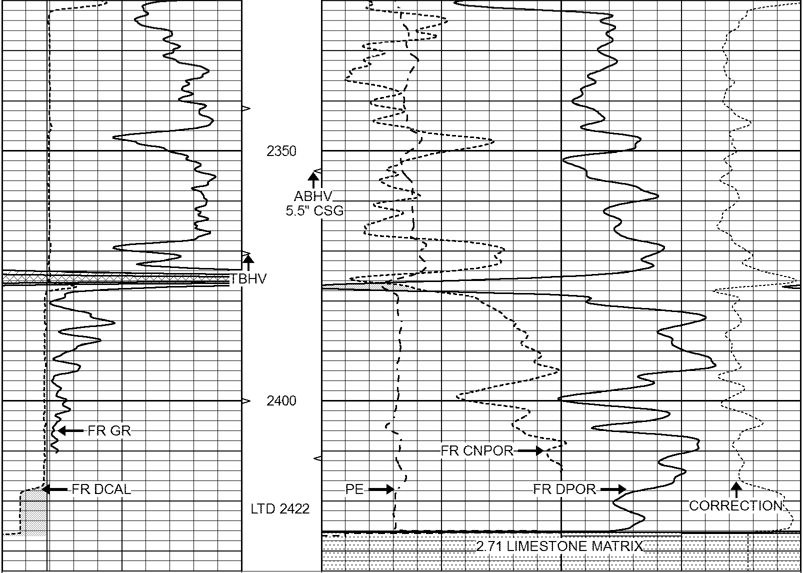










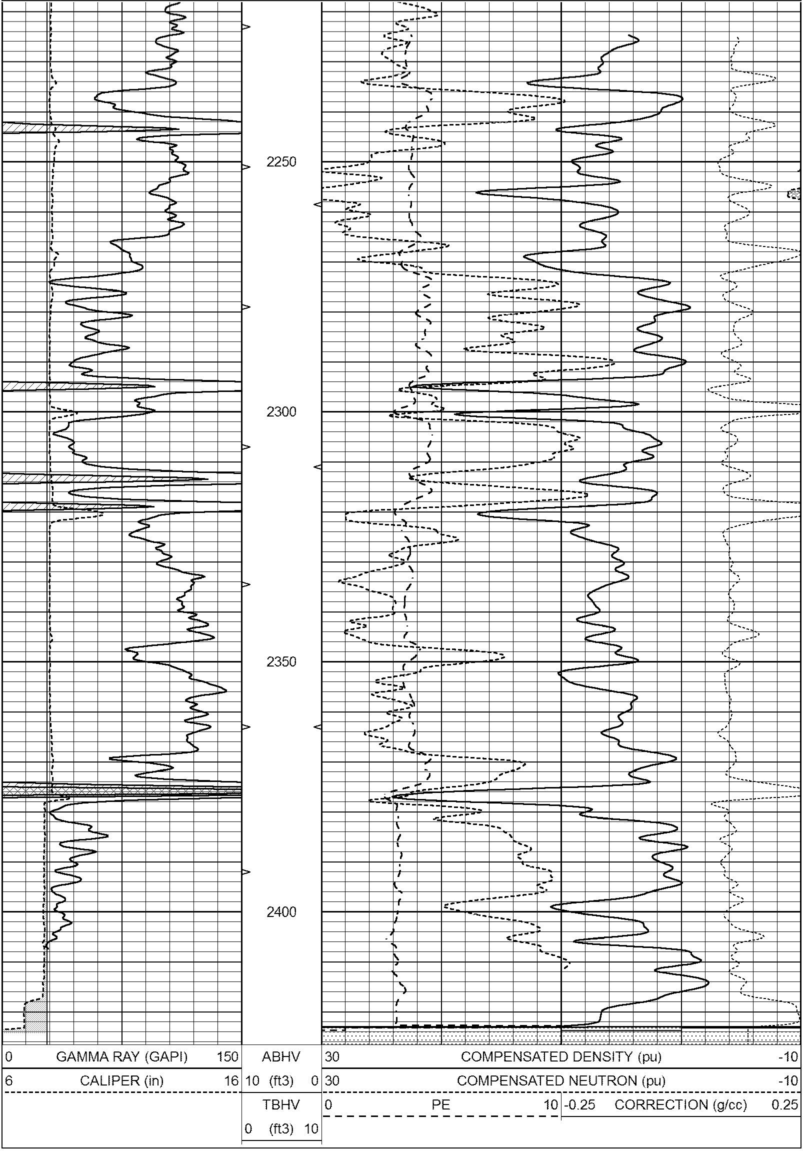


| | | | |
|---|---|---|---|
| 0 GAMMA RAY (GAPI) 150 | ABHV | 30 COMPENSATED DENSITY (pu) -10 | |
| 6 CALIPER (in) 16 | 10 (ft3) 0 | 30 COMPENSATED NEUTRON (pu) -10 | |
| | TBHV | 0 PE 10 | -0.25 CORRECTION (g/cc) 0.25 |
| | 0 (ft3) 10 | | |

# REPEAT SECTION

| | |
|---|---|
| Database File | 31280pe8.db |
| Dataset Pathname | pass6.1 |
| Presentation Format | _ldt_neu |
| Dataset Creation | Mon Aug 22 21:15:29 2016 |
| Charted by | Depth in Feet scaled 1:240 |

| | | | |
|---|---|---|---|
| 0 GAMMA RAY (GAPI) 150 | ABHV | 30 COMPENSATED DENSITY (pu) -10 | |
| 6 CALIPER (in) 16 | 10 (ft3) 0 | 30 COMPENSATED NEUTRON (pu) -10 | |
| | TBHV | 0 PE 10 | -0.25 CORRECTION (g/cc) 0.25 |
| | 0 (ft3) 10 | | |



# 2.85 MATRIX

| | |
|---|---|
| Database File | 31280pe8.db |
| Dataset Pathname | pass6.2 |
| Presentation Format | _ldt_neu |
| Dataset Creation | Mon Aug 22 21:11:34 2016 |
| Charted by | Depth in Feet scaled 1:240 |

0 GAMMA RAY (GAPI) 150

6 CALIPER (in) 16

ABHV

10 (ft3) 0

TBHV

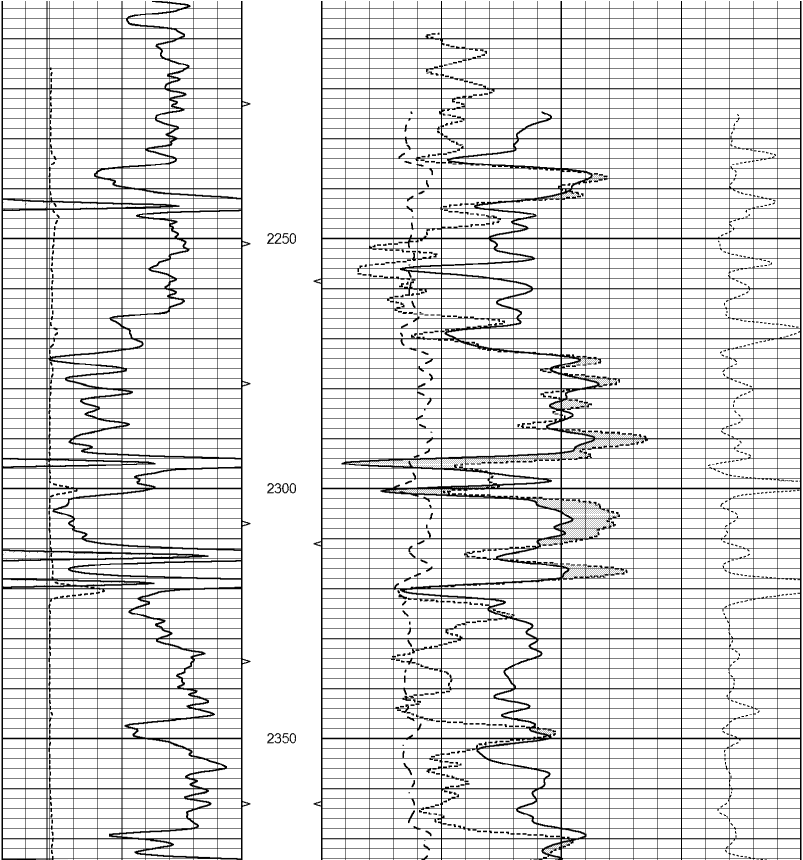
0 (ft3) 10

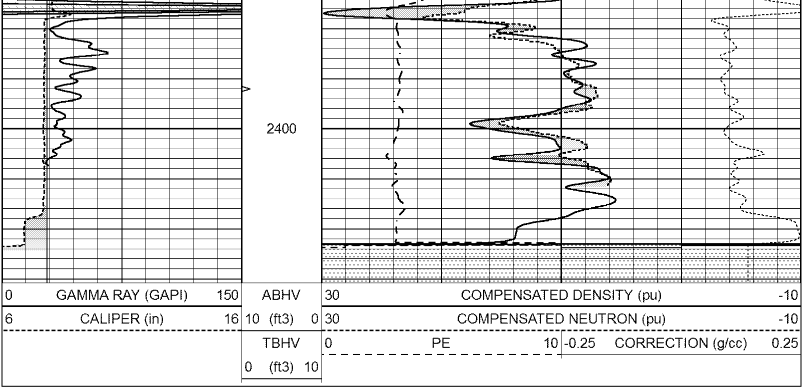
30 COMPENSATED DENSITY (pu) -10

30 COMPENSATED NEUTRON (pu) -10

0 PE 10

-0.25 CORRECTION (g/cc) 0.25





## Calibration Report

| | |
|---|---|
| Database File | 31280pe8.db |
| Dataset Pathname | pass6.1 |
| Dataset Creation | Mon Aug 22 21:15:29 2016 |

### Litho Density Calibration Report

Serial: 140703
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Wed Feb 11 16:57:09 2015

| | Background | Aluminum | Magnesium | |
|---|---|---|---|---|
| Window 1 | 594.39 | 6349.98 | 29204.00 | cps |
| Window 2 | 47.14 | 1460.46 | 7334.94 | cps |
| Window 4 | 261.52 | 1478.45 | 6338.23 | cps |
| Window 5 | 633.19 | 10381.10 | 19565.80 | cps |
| Window 6 | 49.78 | 1758.01 | 3436.39 | cps |
| Window 8 | 302.39 | 3297.16 | 6093.06 | cps |
| Bulk Density | - | 2.6020 | 1.6830 | g/cc |
| Pe | - | 3.0000 | 2.5070 | b/e |

| | | | | | |
|---|---|---|---|---|---|
| LS Alpha: | : -1.8570 | SS Alpha: | : -0.7600 | LS CPE: | : 1.1652 |
| LS Beta: | : 157430.0395 | SS Beta: | : 22665.8398 | SS CPE: | : 1.4739 |

Before Survey Backround Counts Verification

Performed: Wed Dec 31 18:00:00 1969

| | | |
|---|---|---|
| Window 1 | 0.00 | cps |
| Window 2 | 0.00 | cps |
| Window 4 | 0.00 | cps |
| Window 5 | 0.00 | cps |
| Window 6 | 0.00 | cps |
| Window 8 | 0.00 | cps |

## After Survey Background Counts Verification

Performed: Wed Dec 31 18:00:00 1969

| | | |
|---|---|---|
| Window 1 | 0.00 | cps |
| Window 2 | 0.00 | cps |
| Window 4 | 0.00 | cps |
| Window 5 | 0.00 | cps |
| Window 6 | 0.00 | cps |
| Window 8 | 0.00 | cps |

## Lithodensity Caliper Calibration

Performed: Wed Feb 11 16:57:09 2015

Results

| Readings | | References (in) | | | |
|---|---|---|---|---|---|
| Low | High | Low | High | Gain | Offset |
| 5280.9 | 9455.1 | 8.6 | 14.0 | 0.0 | 1.2 |

## Before Survey Caliper Verification

Performed:

| | Reference | Reading |
|---|---|---|
| Caliper (in) | | |

## After Survey Caliper Verification

Performed:

## Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

### PRE-SURVEY VERIFICATION

| Detector | Readings | Measured | Target |
|---|---|---|---|
| Short Space | cps | | |
| Long Space | cps | pu | pu |

### POST-SURVEY VERIFICATION

| Detector | Readings | Measured | Target |
|---|---|---|---|
| Short Space | cps | | |
| Long Space | cps | pu | pu |

## Gamma Ray Calibration Report

| | | |
|---|---|---|
| Serial Number: | 070558 | |
| Tool Model: | Probe1 | |
| Performed: | Wed Jun 29 08:29:10 2016 | |
| Calibrator Value: | 1.0 | GAPI |
| Background Reading: | 0.0 | cps |
| Calibrator Reading: | 1.0 | cps |
| Sensitivity: | 0.3000 | GAPI/cps |