SUPERIOR WELL SERVICES

# GAMMA RAY / CCL
# CEMENT BOND
# VDL

Company Petroleum Development Corporation
Well Spaur 31 V-204
Field Wattenberg
County Weld State Colorado

Location: API #: 05-123-34596
1264' FNL & 250' FEL
NE / NE
SEC 31 TWP 7N RGE 63W

Other Services

| | | | |
|---|---|---|---|
| Permanent Datum | GL | Elevation | 4758' |
| Log Measured From | KB | | |
| Drilling Measured From | KB | | |

Elevation
K.B. 4772
D.F. 4771
G.L. 4758

| | |
|---|---|
| Company | Petroleum Development Corporation |
| Well | Spaur 31 V-204 |
| Field | Wattenberg |
| County | Weld |
| State | Colorado |

| | |
|---|---|
| Date | September 13, 2012 |
| Run Number | 1 |
| Depth Driller | 10,910' |
| Depth Logger | 6840' |
| Bottom Logged Interval | 6840'-4000' |
| Top Log Interval | 4000'-0' |
| Open Hole Size | |
| Type Fluid | water |
| Density / Viscosity | |
| Max. Recorded Temp. | n/a |
| Estimated Cement Top | |
| Time Well Ready | |
| Time Logger on Bottom | |
| Equipment Number | T2 TEK1/TITAN1,TEKCCL1 |
| Location | WCRs63+74,N7/10,Wnto |
| Recorded By | Jake Meisner |
| Witnessed By | Kelly Lewis |

| Borehole Record | | | | Tubing Record | | | |
|---|---|---|---|---|---|---|---|
| Run Number | Bit | From | To | Size | Weight | From | To |
| | | | | | | | |

| Casing Record | Size | Wgt/Ft | Top | Bottom |
|---|---|---|---|---|
| Surface String | | | | |
| Prot. String | | | | |
| Production String | 7" | | | |
| Liner | | | | |

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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

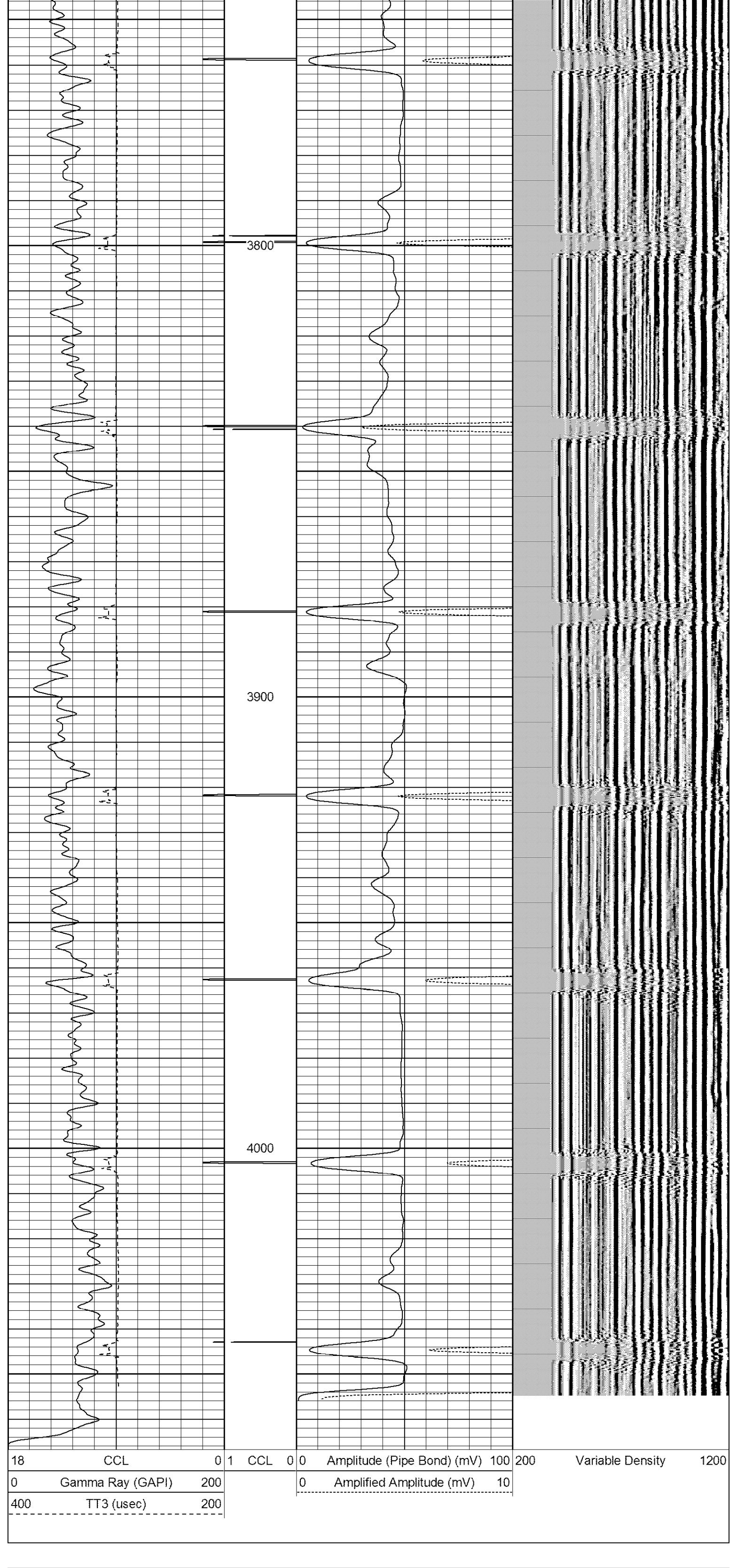
THANK-YOU FOR USING SUPERIOR WELL SERVICES
STERLING: 970.526.1084 FAX: 970.526.1085
FORT LUPTON: 970.785.0158 FAX: 970.785.0159

<NORTH> O X O O <SOUTH>

X = Spaur 31 V-204

| | |
|---|---|
| Database File: | pdcs31v204.db |
| Dataset Pathname: | pass2 |
| Presentation Format: | bond |
| Dataset Creation: | Thu Sep 13 11:57:43 2012 by Log Std Casedhole 07051 |
| Charted by: | Depth in Feet scaled 1:240 |

18 CCL 0 | 1 CCL 0 | 0 Amplitude (Pipe Bond) (mV) 100 | 200 Variable Density 1200
0 Gamma Ray (GAPI) 200 | 0 Amplified Amplitude (mV) 10
400 TT3 (usec) 200



| | | |
|---|---|---|
| 18 | CCL | 0 |
| 0 | Gamma Ray (GAPI) | 200 |
| 400 | TT3 (usec) | 200 |
| 1 | CCL | 0 |
| 0 | Amplitude (Pipe Bond) (mV) | 100 |
| 0 | Amplified Amplitude (mV) | 10 |
| 200 | Variable Density | 1200 |

Database File: pdcs31v204.db
Dataset Pathname: pass1
Presentation Format: bond
Dataset Creation: Thu Sep 13 11:35:45 2012 by Log Std Casedhole 07051
Charted by: Depth in Feet scaled 1:240

| | | |
|---|---|---|
| 18 | CCL | 0 |
| 0 | Gamma Ray (GAPI) | 200 |
| 400 | TT3 (usec) | 200 |
| 1 | CCL | 0 |
| 0 | Amplitude (Pipe Bond) (mV) | 100 |
| 0 | Amplified Amplitude (mV) | 10 |
| 200 | Variable Density | 1200 |

| | | |
|---|---|---|
| 18 | CCL | 0 |
| 0 | Gamma Ray (GAPI) | 200 |
| 400 | TT3 (usec) | 200 |
| 1 | CCL | 0 |
| 0 | Amplitude (Pipe Bond) (mV) | 100 |
| 0 | Amplified Amplitude (mV) | 10 |
| 200 | Variable Density | 1200 |