**C&J ENERGY SERVICES**

# GAMMA RAY C.C.L. CEMENT BOND V.D.L.

| | |
|---|---|
| Company | PDC Energy |
| Well | Geib 26V-304 |
| Field | Wattenberg |
| County | Weld |
| State | CO |

Company PDC Energy

Well Geib 26V-304

Field Wattenberg

County Weld State CO

Location: API #: 05-123-44856

1208' FNL & 400' FEL

NE / NE

SEC 26 TWP 5N RGE 65W

Other Services

| | | | |
|---|---|---|---|
| Permanent Datum | GL | Elevation 4641' | Elevation |
| Log Measured From | GL | | K.B. |
| Drilling Measured From | KB | | D.F. |
| | | | G.L. 4641' |

| | | |
|---|---|---|
| Date | May 25, 2018 | |
| Run Number | 1 | |
| Depth Driller | 17,069' | |
| Depth Logger | 6900' | |
| Bottom Logged Interval | 6900'-0' | |
| Top Log Interval | | |
| Casing Size | | |
| Type Fluid | WATER | |
| Max. Recorded Temp. | N/A | |
| Estimated Cement Top | | |
| Time Well Ready | | |
| Time Logger On Bottom | | |
| Unit Number | 923856 | |
| Tool Size / ID Number | 2-3/4" Probe Radii | |
| Location | WCR49+54,s3/10,winto | |
| Recorded By | Meisner | |
| Witnessed By | Gardella | |

| 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 | 5.5" | | | |
| Liner | | | | |

<<< Fold Here >>>

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

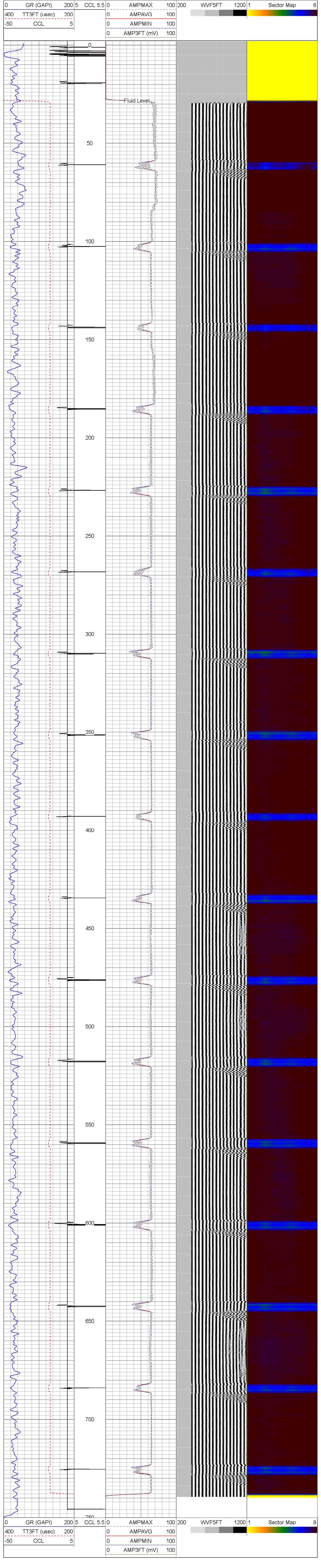
Geib 9 Well Pad

<NORTH> O O O O X O O O O <SOUTH>

X = Geib 26V-304

Database File: pdcg26v304.db
Dataset Pathname: pass4
Presentation Format: sector2
Dataset Creation: Fri May 25 13:03:00 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

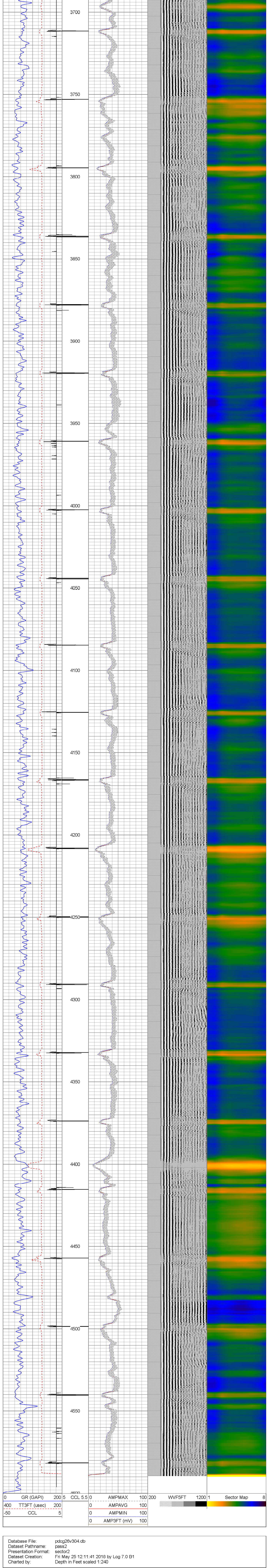
| | | | |
|---|---|---|---|
| 0 GR (GAPI) 200<br>400 TT3FT (usec) 200<br>-50 CCL 5 | 5 CCL 5.5 | 0 AMPMAX 100<br>0 AMPAVG 100<br>0 AMPMIN 100<br>0 AMP3FT (mV) 100 | 200 WVF5FT 1200 | 1 Sector Map 8 |



| | | | |
|---|---|---|---|
| 0 GR (GAPI) 200<br>400 TT3FT (usec) 200<br>-50 CCL 5 | 5 CCL 5.5 | 0 AMPMAX 100<br>0 AMPAVG 100<br>0 AMPMIN 100<br>0 AMP3FT (mV) 100 | 200 WVF5FT 1200 | 1 Sector Map 8 |

Database File: pdcg26v304.db
Dataset Pathname: pass3
Presentation Format: sector2
Dataset Creation: Fri May 25 12:28:43 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

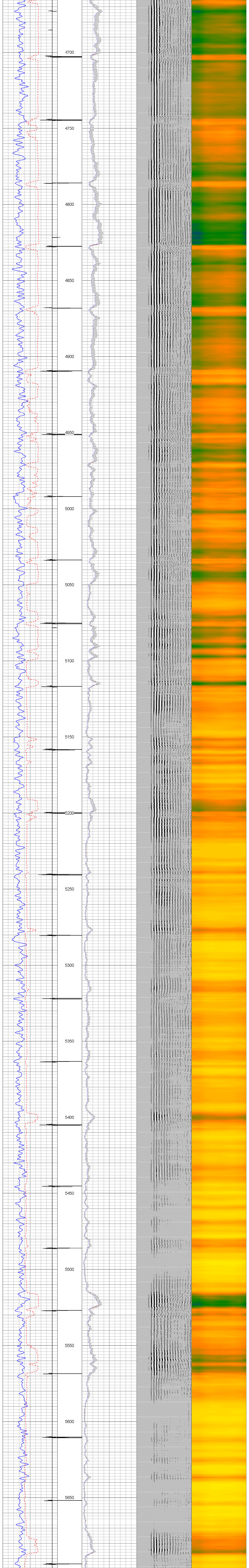
| | | | |
|---|---|---|---|
| 0 GR (GAPI) 200<br>400 TT3FT (usec) 200<br>-50 CCL 5 | 5 CCL 5.5 | 0 AMPMAX 100<br>0 AMPAVG 100<br>0 AMPMIN 100<br>0 AMP3FT (mV) 100 | 200 WVF5FT 1200 | 1 Sector Map 8 |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | GR (GAPI) | 200 | 5 | CCL | 5.5 | 0 | AMPMAX | 100 | 200 | WVF5FT | 1200 | 1 | Sector Map | 8 |
| 400 | TT3FT (usec) | 200 |  |  |  | 0 | AMPAVG | 100 |  |  |  |  |  |  |
| -50 | CCL | 5 |  |  |  | 0 | AMPMIN | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 | AMP3FT (mV) | 100 |  |  |  |  |  |  |

Database File: pdog26v304.db
Dataset Pathname: pass2
Presentation Format: sector2
Dataset Creation: Fri May 25 12:11:41 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | GR (GAPI) | 200 | 5 | CCL | 5.5 | 0 | AMPMAX | 100 | 200 | WVF5FT | 1200 | 1 | Sector Map | 8 |
| 400 | TT3FT (usec) | 200 |  |  |  | 0 | AMPAVG | 100 |  |  |  |  |  |  |
| -50 | CCL | 5 |  |  |  | 0 | AMPMIN | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 | AMP3FT (mV) | 100 |  |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | GR (GAPI) | 200 | 5 | CCL | 5.5 | 0 | AMPMAX | 100 | 200 | WVF5FT | 1200 | 1 | Sector Map | 8 |
| 400 | TT3FT (usec) | 200 |  |  |  | 0 | AMPAVG | 100 |  |  |  |  |  |  |
| -50 | CCL | 5 |  |  |  | 0 | AMPMIN | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 | AMP3FT (mV) | 100 |  |  |  |  |  |  |

Database File: pdog26v304.db
Dataset Pathname: pass1
Presentation Format: sector2
Dataset Creation: Fri May 25 11:57:06 2018 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | GR (GAPI) | 200 | 5 | CCL | 5.5 | 0 | AMPMAX | 100 | 200 | WVF5FT | 1200 | 1 | Sector Map | 8 |
| 400 | TT3FT (usec) | 200 |  |  |  | 0 | AMPAVG | 100 |  |  |  |  |  |  |
| -50 | CCL | 5 |  |  |  | 0 | AMPMIN | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 | AMP3FT (mV) | 100 |  |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | GR (GAPI) | 200 | 5 | CCL | 5.5 | 0 | AMPMAX | 100 | 200 | WVF5FT | 1200 | 1 | Sector Map | 8 |
| 400 | TT3FT (usec) | 200 |  |  |  | 0 | AMPAVG | 100 |  |  |  |  |  |  |
| -50 | CCL | 5 |  |  |  | 0 | AMPMIN | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  | 0 | AMP3FT (mV) | 100 |  |  |  |  |  |  |