



# Job Summary

|               |             |
|---------------|-------------|
| Ticket Number | Ticket Date |
| TN# FL1342    | 1/7/2017    |

|                       |                        |              |
|-----------------------|------------------------|--------------|
| COUNTY                | COMPANY                | API Number   |
| Weld                  | PDC Energy, Inc.       | 05-123-42681 |
| WELL NAME             | RIG                    | JOB TYPE     |
| Brown 23P-321         | Ensign 161             | Production   |
| SURFACE WELL LOCATION | O-TEX Field Supervisor | CUSTOMER REP |
| SWSE 23-5N-65W        | Scott, Derek           | Brady Sharp  |

|                  |                |  |
|------------------|----------------|--|
| EMPLOYEES        |                |  |
|                  | Forsyth, Scott |  |
| Sandoval, Steven | Payne, James   |  |

|   |  |                                      |     |
|---|--|--------------------------------------|-----|
| <b>WELL PROFILE</b>                       |  |                                      |     |
| Max Treating Pressure (psi):              |  | Bottom Hole Static Temperature (°F): | 210 |
| Bottom Hole Circulating Temperature (°F): |  | Well Type:                           | Oil |

|           |           |               |             |               |             |
|-----------|-----------|---------------|-------------|---------------|-------------|
| Open Hole |           |               |             |               |             |
| 1         | Size (in) | TMD From (ft) | TMD to (ft) | TVD From (Ft) | TVD to (Ft) |
|           | 8.5       | 1542          | 15837       |               |             |
| 2         | Size (in) | TMD From (ft) | TMD to (ft) | TVD From (Ft) | TVD to (Ft) |
|           |           |               |             |               |             |

|                          |           |                |       |               |             |               |             |
|--------------------------|-----------|----------------|-------|---------------|-------------|---------------|-------------|
| Casing/Tubing/Drill Pipe |           |                |       |               |             |               |             |
| Type                     | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (Ft) | TVD to (Ft) |
| Surface                  | 9.625     | 36             | J-55  | 0             | 1542        |               |             |
| Type                     | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (Ft) | TVD to (Ft) |
| Production               | 5.5       | 20             | P-110 | 1542          | 15826       | 0             | 6874        |
| Type                     | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (Ft) | TVD to (Ft) |
|                          |           |                |       |               |             |               |             |

## CEMENT DATA

|                              |                  |               |                             |            |
|------------------------------|------------------|---------------|-----------------------------|------------|
| <b>Stage 1:</b>              | From Depth (ft): | 0             | To Depth (ft):              | 0          |
| Type: <b>Weighted Spacer</b> | Volume (sacks):  | 170           | Volume (bbls):              | 41         |
| Cement & Additives:          |                  |               |                             |            |
| 100% POZ F+0.1% WG-4P        |                  | Density (ppg) | Yield (ft <sup>3</sup> /sk) | Water Req. |
|                              |                  | 12.5          | 1.35                        | 6.64       |

|   |                  |               |                             |            |
|---|------------------|---------------|-----------------------------|------------|
| <b>Stage 2:</b>                                     | From Depth (ft): | 0             | To Depth (ft):              | 2676       |
| Type: <b>Lead</b>                                   | Volume (sacks):  | 658           | Volume (bbls):              | 178.1      |
| Cement & Additives:                                 |                  |               |                             |            |
| 100% 35:65:0(POZ:G:GEL)+4% Gel+0.4% FL-17+0.2% C-20 |                  | Density (ppg) | Yield (ft <sup>3</sup> /sk) | Water Req. |
|   |                  | 13.5          | 1.52                        | 7.62       |

|  |                  |               |                             |            |
|--|------------------|---------------|-----------------------------|------------|
| <b>Stage 3:</b>  | From Depth (ft): | 2676          | To Depth (ft):              | 15826      |
| Type: <b>Tail</b>  | Volume (sacks):  | 1672          | Volume (bbls):              | 541.9      |
| Cement & Additives:  |                  |               |                             |            |
| 100% 35:65:0(POZ:G:GEL)+25% Silica Flour+0.3% ASM-3+0.5% FL-17+0.2% C-49+0.1% C-20 |                  | Density (ppg) | Yield (ft <sup>3</sup> /sk) | Water Req. |
|  |                  | 13.5          | 1.82                        | 8.99       |

## SUMMARY

|                                     |                            |                                |     |                      |         |
|-------------------------------------|----------------------------|--------------------------------|-----|----------------------|---------|
| Preflushes:                         | 20 bbls of Mudflush        | Calculated Displacement (bbl): | 351 | Stage 1              | Stage 2 |
|                                     | 10 bbls of Fresh Water     | Actual Displacement (bbl)      | 351 |                      |         |
|                                     | 40 bbls of Weighted Spacer | Plug Bump (Y/N):               | Y   | Bump Pressure (psi): |         |
| Total Preflush/Spacer Volume (bbl): | 70                         | Lost Returns (Y/N):            | N   | (if Y, when)         |         |
| Total Slurry Volume (bbl):          | 720                        |                                |     |                      |         |
| Total Fluid Pumped                  | 1141                       |                                |     |                      |         |
| Returns to Surface:                 | Cement 55 bbls             |                                |     |                      |         |

Job Notes (fluids pumped / procedures / tools / etc.): Completions hand, tool hand, and myself all agreed on 55bbls of cement back and that we bumped the plug at our calculated displacement of 351bbls

**Thank You For Using**  
**O - TEX Pumping**

Customer Representative Signature: \_\_\_\_\_

