

|                  |                 |  |
|------------------|-----------------|--|
| TICKET           | BCO-2006-0018   |  |
| DATE             | 6/22/2020       |  |
| CREW INFORMATION |                 |  |
| SUPERVISOR       | Jeff Kopp       |  |
| PUMP UNIT        | 44-5070         |  |
| NUMBERS          |                 |  |
| ARRIVAL (D&T)    | 6/22/20 9:00 AM |  |
| DEPARTURE (D&T)  | 6/23/20 9:30 AM |  |

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Customer Name Printed \_\_\_\_\_

Customer Signature \_\_\_\_\_

Date Signed \_\_\_\_\_



# Job Summary

|                       |                       |              |
|-----------------------|-----------------------|--------------|
| Ticket Number         |                       | Ticket Date  |
| TN#                   | BCO-2006-0018         | 6/22/2020    |
| COUNTY                | COMPANY               | API Number   |
| WELD                  | PDC ENERGY            | 0512307326   |
| WELL NAME             | RIG                   | JOB TYPE     |
| LESSER 1              | Engisn 122            | CM-P2A-PERM. |
| SURFACE WELL LOCATION | CJES Field Supervisor | CUSTOMER REP |
| 40.39039 -104.77862   | Jeff Kopp             | Bud Holman   |

## EMPLOYEES

|           |  |  |
|-----------|--|--|
| Garrick W |  |  |
| Cody M    |  |  |
| Tony Y    |  |  |

## WELL PROFILE

|   |      |                                      |  |
|---|------|--------------------------------------|--|
| Max Treating Pressure (psi):              | 2000 | Bottom Hole Static Temperature (°F): |  |
| Bottom Hole Circulating Temperature (°F): |      | Well Type:                           |  |

## Open Hole

|   |           |               |             |               |             |
|---|-----------|---------------|-------------|---------------|-------------|
| 1 | Size (in) | TMD From (ft) | TMD to (ft) | TVD From (ft) | TVD to (ft) |
|   | 8         | 4136          | 6950        |               |             |
| 2 | Size (in) | TMD From (ft) | TMD to (ft) | TVD From (ft) | TVD to (ft) |
|   | 10        | 570           | 4136        |               |             |

## Casing/Tubing/Drill Pipe

|            |           |                |       |               |             |               |             |
|------------|-----------|----------------|-------|---------------|-------------|---------------|-------------|
| Type       | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (ft) | TVD to (ft) |
| Surface    | 8 5/8     | 24             |       | 0             | 165         |               |             |
| Type       | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (ft) | TVD to (ft) |
| Drill Pipe | 4 1/2     | 16.6           |       | 0             | 6950        |               |             |
| Type       | Size (in) | Weight (lb/ft) | Grade | TMD From (ft) | TMD to (ft) | TVD From (ft) | TVD to (ft) |
|            |           |                |       |               |             |               |             |

## CEMENT DATA

|                     |                  |               |                |            |
|---------------------|------------------|---------------|----------------|------------|
| Stage 1:            | From Depth (ft): | 6384          | To Depth (ft): | 6950       |
| Type: Balance Plug  | Volume (sacks):  | 126           | Volume (bbls): | 34.1       |
| Cement & Additives: |                  | Density (ppg) | Yield (ft³/sk) | Water Req. |
|                     |                  | 15.8          | 1.52           | 6.19       |
| Stage 2:            | From Depth (ft): | 3217          | To Depth (ft): | 4136       |
| Type: Balance Plug  | Volume (sacks):  | 265           | Volume (bbls): | 54.2       |
| Cement & Additives: |                  | Density (ppg) | Yield (ft³/sk) | Water Req. |
|                     |                  | 15.8          | 1.15           | 5.00       |
| Stage 3:            | From Depth (ft): | 1179          | To Depth (ft): | 1739       |
| Type: Balance Plug  | Volume (sacks):  | 230           | Volume (bbls): | 54.4       |
| Cement & Additives: |                  | Density (ppg) | Yield (ft³/sk) | Water Req. |
|                     |                  | 14.8          | 1.33           | 6.32       |
| Stage 4:            | From Depth (ft): | 0             | To Depth (ft): | 579        |
| Type: Surface Plug  | Volume (sacks):  | 156           | Volume (bbls): | 37         |
| Cement & Additives: |                  | Density (ppg) | Yield (ft³/sk) | Water Req. |
|                     |                  | 14.8          | 1.33           | 6.32       |

## SUMMARY

|                                     |                        |                                |         |                          |
|-------------------------------------|------------------------|--------------------------------|---------|--------------------------|
| Preflushes:                         | 10 bbls of SAPP        | Calculated Displacement (bbl): | Stage 1 | Stage 2                  |
|                                     | 32 bbls of Fresh Water | Actual Displacement (bbl):     | 90.8    | 50.8                     |
|                                     | bbls of                |                                | 90.6    | 46                       |
| Total Preflush/Spacer Volume (bbl): | 42                     | Plug Bump (Y/N):               | N/A     | Bump Pressure (psi): N/A |
| Total Slurry Volume (bbl):          | 182.7                  | Lost Returns (Y/N):            | N       | (if Y, when)             |
| Total Fluid Pumped                  | 224.7                  |                                |         |                          |
| Returns to Surface:                 | Cement                 |                                |         |                          |
|                                     | 1 bbls                 |                                |         |                          |

Job Notes (fluids pumped / procedures / tools / etc.):

14in O.H. not indicated above (165ft to 579ft). Also where 10in O.H. is indicated its displaced more for an 8in O.H. (see above for calculated and actual displacements.) Plug number 3 calculated displacement was 16.6bbls we balanced out @13.9bbls. After bringing cement to surface we topped off the well with 3bbls (13sx).

Thank You For Using  
NexTier Completion Solutions

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

## Cement Job Log



|             |            |             |               |                   |                 |        |          |
|-------------|------------|-------------|---------------|-------------------|-----------------|--------|----------|
| Customer:   | PDC ENERGY | Date:       | 22-Jun-20     | Serv. Supervisor: | Jeff Kopp       |        |          |
| Cust. Rep.: | Bud Holman | Ticket #:   | BCO-2006-0018 | Serv. Center:     | Brighton - 3021 |        |          |
| Well Name:  | LESSER 1   | API Well #: | 0512307326    | County:           | WELD            | State: | COLORADO |
| Well Type:  | Oil        | Rig:        | Engisn 122    | Type of Job:      | CM-P2A-PERM.    |        |          |

## Materials Furnished by NexTier

| Plugs                      | Casing Hardware   | Physical Slurry Properties |                        |        |                 |                    |                     |                  |
|----------------------------|---|----------------------------|------------------------|--------|-----------------|--------------------|---------------------|------------------|
|                            |   | Sacks of Cement            | Fluid Density (lb/gal) | Excess | Yield (cuft/sk) | Mix Water (gal/sk) | Fluid Volume (bbls) | Mix Water (bbls) |
| Spacer - 5 bbl Fresh Water |   |                            |                        |        | -               | -                  |                     |                  |
| Nio Plug                   | 100 % NCM-914<br>+35.0 % NWT-766+0.25 % NDS-415+0.6 % NFL-549+0.2 % NRT-210 | 130                        | 15.8                   |        | 1.52            | 6.19               | 35.16               | 19               |
| Plug 2                     | 100 % NCM-914   | 265                        | 15.8                   |        | 1.15            | 5.00               | 54.17               | 32               |
| Plug 3                     | +100 % NCM-922  | 230                        | 14.8                   |        | 1.33            | 6.32               | 54.29               | 35               |
| Plug 4                     | +100 % NCM-922  | 375                        | 14.8                   |        | 1.33            | 6.32               | 88.52               | 56               |
| Extra Cement               | +100 % NCM-922  | 45                         | 14.8                   |        | 1.33            | 6.32               | 10.62               | 7                |
|                            |   |                            |                        |        | -               | -                  |                     |                  |
|                            |   |                            |                        |        | -               | -                  |                     |                  |
|                            |   |                            |                        |        | -               | -                  |                     |                  |
|                            |   |                            |                        |        |                 |                    |                     |                  |
|                            |   |                            |                        |        |                 |                    |                     |                  |
|                            |   |                            |                        |        |                 |                    |                     |                  |
|                            |   |                            |                        |        |                 |                    |                     |                  |

|                         |  |
|-------------------------|--|
| Displacement Chemicals: |  |
|-------------------------|--|

| OPEN HOLE DATA   |            |              |            | TUBULAR DATA |      |            |       |         |             |                |
|--|------------|--------------|------------|--------------|------|------------|-------|---------|-------------|----------------|
| 14 in. O.H. (165 to 570 ft)<br>10 in. O.H. (570 to 4,120 ft) |            |              |            | SIZE WEIGHT  | THRD | DEPTH (ft) | GRADE | ID (in) | BURST (psi) | COLLAPSE (psi) |
| Mix Cemt. Temperature °F                                     | Lead Temp. | Middle Temp. | Tail Temp. |              |      |            |       |         |             |                |
|  |            |              |            |              |      |            |       |         |             |                |

| PREVIOUS CASING DATA         |  |  | PERFORATED INTERVAL DATA |     |     |      | CASING EQUIPMENT DEPTHS |       |       |     |
|------------------------------|--|--|--------------------------|-----|-----|------|-------------------------|-------|-------|-----|
| 8.625 in. 24# ( 0 to 165 ft) |  |  | TOP                      | BTM | SPF | SIZE | SHOE                    | FLOAT | STAGE | ACP |
|                              |  |  |                          |     |     |      |                         |       |       |     |
|                              |  |  |                          |     |     |      |                         |       |       |     |

| WELL FLUID  |                          |                   | DISPLACEMENT FLUID |                         |                    | DIFF PRESS (psi)            | CSG LIFT (psi)          | MAX PRESS (psi) | Total Number of Runs         |                      | WATER ON LOC (bbl)  |
|-------------|--------------------------|-------------------|--------------------|-------------------------|--------------------|-----------------------------|-------------------------|-----------------|------------------------------|----------------------|---------------------|
| TYPE        | DENSITY                  | VOLUME            | TYPE               | DENSITY                 |                    |                             |                         |                 |                              |                      |                     |
|             |                          |                   |                    |                         |                    |                             |                         | 2000            |                              |                      | 1000                |
| Bumped Plug | Final Differential (psi) | Floats Held (Y/N) | PSI Left on Casing | Cement to Surface (bbl) | Top of Cement (ft) | Full Circ. During Job (Y/N) | Max Pump Pressure (psi) | Casing Rotation | Additional Hrs Charged (hrs) | Casing Reciprocation | Rathole Length (ft) |
|             |                          |                   |                    | 1.00                    |                    | Yes                         | 2,000.00                |                 | 7.00                         |                      |                     |

|   |
|---|
| Comments/Special Customer Instructions: |
|---|

|  |   |
|--|---|
|  | <div> <div>Jeff Kopp</div> <div>Service Supervisor</div> </div> <div> <div>22-Jun-20</div> <div>Date</div> </div> |
|--|---|

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Client  
Ticket No.  
Location  
Comments

PC Energy  
20060018  
NENE 21 5N 66W

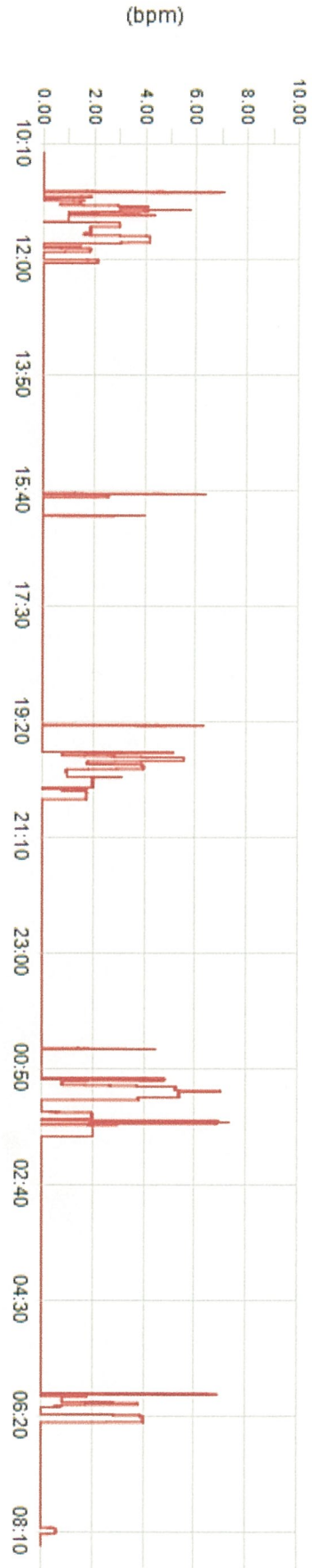
Client Rep  
Well Name  
Job Type

Bud Holman  
Lesser 1  
Abandonment Plugs

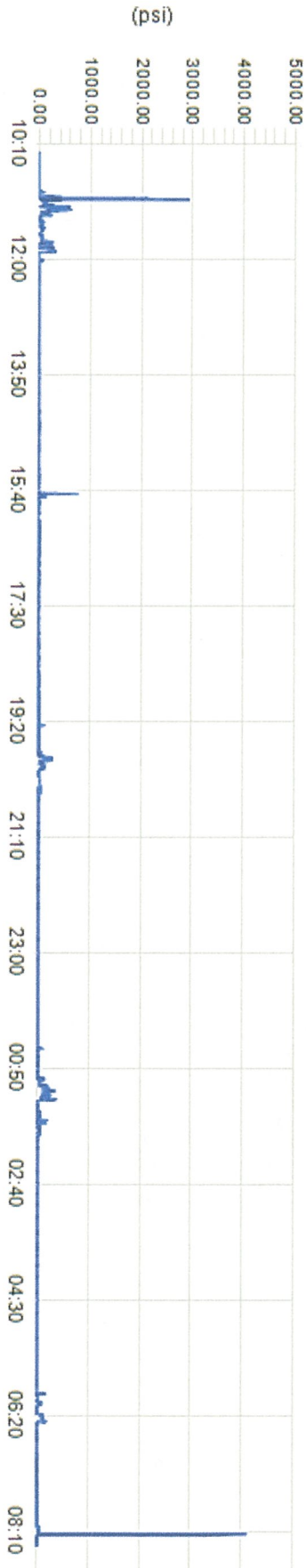
Supervisor  
Unit No.  
Service District  
Job Date

Jeff Kopp  
445070  
Brighton Co  
06/22/2020

Unit 445070 Rate Total



Unit 445070 Pump Pressure



Unit 445070 Density

