

## The Road to Excellence Starts with Safety

|   |                     |   |                         |
|---|---------------------|---|-------------------------|
| Sold To #: 304535                                   | Ship To #: 2945405  | Quote #:  | Sales Order #: 9742856  |
| Customer: PDC ENERGY EBUS                           |                     | Customer Rep: Sailors, Chad                             |                         |
| Well Name: Wells Ranch                              |                     | Well #: 33-15   | API/UWI #: 05-123-23141 |
| Field: WARRENERG                                    | City (SAP): LUCERNE | County/Parish: Weld                                     | State: Colorado         |
| Lat: N 40.484 deg. OR N 40 deg. 29 min. 3.282 secs. |                     | Long: W 104.42 deg. OR W -105 deg. 34 min. 48.108 secs. |                         |
| Contractor: BWS                                     |                     | Rig/Platform Name/Num: 22                               |                         |
| Job Purpose: Recement Service                       |                     |   |                         |
| Well Type: Development Well                         |                     | Job Type: Recement Service                              |                         |
| Sales Person: AARON, WESLEY                         |                     | Srvc Supervisor: LAVALLEY, LARRY                        | MBU ID Emp #: 419296    |

## Job Personnel

| HES Emp Name              | Exp Hrs | Emp #  | HES Emp Name      | Exp Hrs | Emp #  | HES Emp Name    | Exp Hrs | Emp #  |
|---------------------------|---------|--------|-------------------|---------|--------|-----------------|---------|--------|
| HALE, ROBERT E            | 3.5     | 470588 | LAVALLEY, LARRY P | 3.5     | 419296 | RICHEY, JESSICA | 3.5     | 525703 |
| SIPNEFSKI, ROBERT Anthony | 3.5     | 419391 |                   |         |        |                 |         |        |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10988836   | 50 mile        | 11106651   | 50 mile        | 11488570C  | 50 mile        | 11518549   | 50 mile        |
| 11527037   | 50 mile        |            |                |            |                |            |                |

## Job Hours

| Date    | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 8/14/12 | 4                 | 2               |      |                   |                 |      |                   |                 |

|       |  |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|
| TOTAL | Total is the sum of each column separately |  |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|--|--|

## Job

| Formation Name         |          |                   |          | Job Times     | Date            | Time  | Time Zone |
|------------------------|----------|-------------------|----------|---------------|-----------------|-------|-----------|
| Formation Depth (MD)   | Top      |                   | Bottom   | Called Out    | 14 - Aug - 2012 | 02:30 | MST       |
| Form Type              |          | BHST              |          | On Location   | 14 - Aug - 2012 | 05:45 | MST       |
| Job depth MD           | 3000. ft | Job Depth TVD     | 3000. ft | Job Started   | 14 - Aug - 2012 | 07:30 | MST       |
| Water Depth            |          | Wk Ht Above Floor | 6. ft    | Job Completed | 14 - Aug - 2012 | 09:30 | MST       |
| Perforation Depth (MD) | From     |                   | To       | Departed Loc  | 14 - Aug - 2012 | 10:15 | MST       |

## Well Data

| Description       | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Production Casing | Unknown    |                   | 4.5     | 4.    | 11.6          |        |       | .         | 6900.        | .          | 6900.         |
| Tubing            | Unknown    |                   | 1.25    | .824  | 2.4           |        |       | .         | 3000.        | .          | 3000.         |

## Tools and Accessories

| Type         | Size | Qty | Make | Depth | Type        | Size | Qty | Make | Depth | Type           | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe   |      |     |      |       | Packer      |      |     |      |       | Top Plug       |      |     |      |
| Float Shoe   |      |     |      |       | Bridge Plug |      |     |      |       | Bottom Plug    |      |     |      |
| Float Collar |      |     |      |       | Retainer    |      |     |      |       | SSR plug set   |      |     |      |
| Insert Float |      |     |      |       |             |      |     |      |       | Plug Container |      |     |      |
| Stage Tool   |      |     |      |       |             |      |     |      |       | Centralizers   |      |     |      |

## Miscellaneous Materials

| Gelling Agt   | Conc | Surfactant | Conc | Acid Type | Qty  | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor  | Conc | Sand Type | Size | Qty  |   |

## Fluid Data

Stage/Plug #: 1

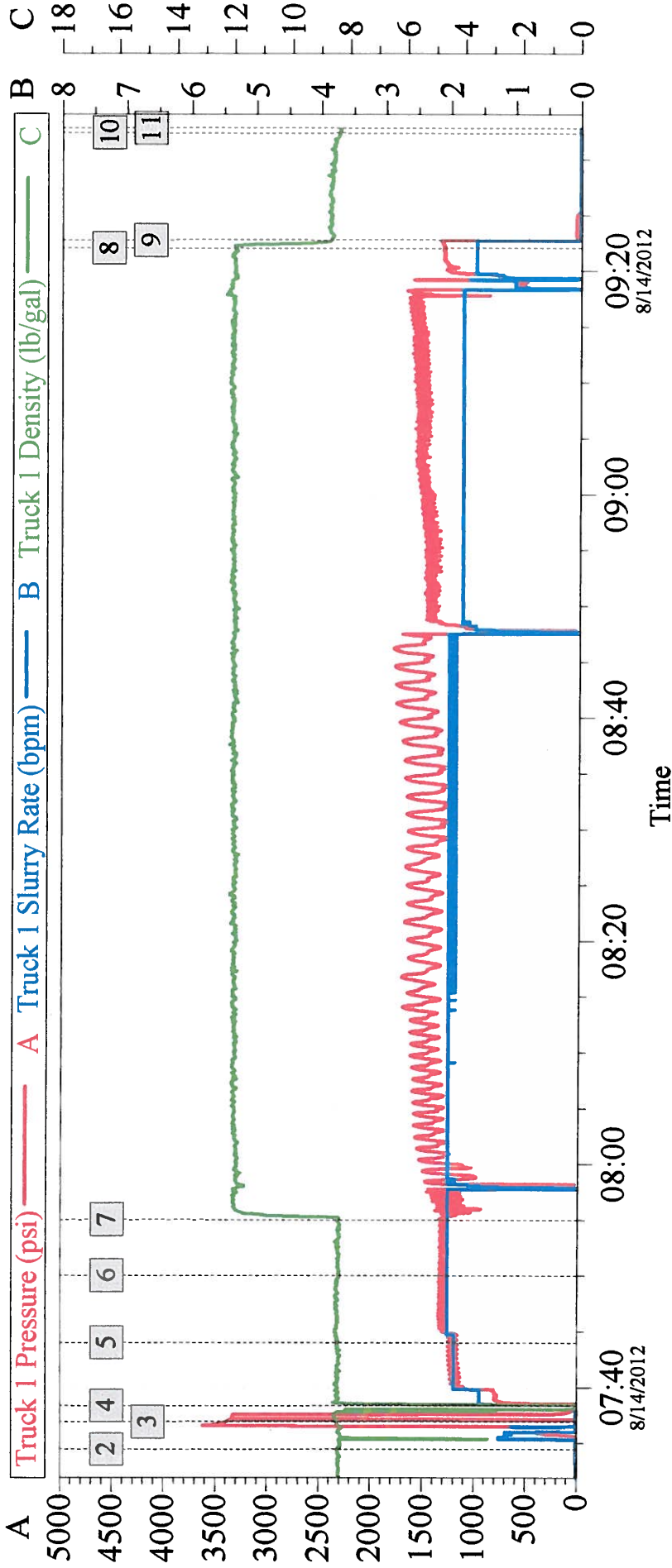
| Fluid #                                  | Stage Type           | Fluid Name                   | Qty    | Qty uom                           | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|--|----------------------|------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 1  | ClayWeb Water Spacer |                              | 10.00  | bbl                               | 8.33                   | .0                        | .0               | 2.0          |                        |
| 2  | MUD FLUSH III        | MUD FLUSH III - SBM (528788) | 12.00  | bbl                               | 8.4                    | .0                        | .0               | 2.0          |                        |
| 3  | ClayWeb Water Spacer |                              | 10.00  | bbl                               | 8.33                   | .0                        | .0               | 2.0          |                        |
| 59.525 gal/Mgal                          |                      | CLA-WEB - TOTE (101985045)   |        |                                   |                        |                           |                  |              |                        |
| 4  | Varicem 12#          | VARICEM (TM) CEMENT (452009) | 435.0  | sacks                             | 12.                    | 2.18                      | 12.34            | 2.0          | 12.34                  |
| 12.34 Gal                                |                      | FRESH WATER                  |        |                                   |                        |                           |                  |              |                        |
| <b>Calculated Values</b>                 |                      | <b>Pressures</b>             |        | <b>Volumes</b>                    |                        |                           |                  |              |                        |
| Displacement                             | 1                    | Shut In: Instant             |        | Lost Returns                      | 0                      | Cement Slurry             | 169              | Pad          |                        |
| Top Of Cement                            |                      | 5 Min                        |        | Cement Returns                    | 5                      | Actual Displacement       | 1                | Treatment    |                        |
| Frac Gradient                            |                      | 15 Min                       |        | Spacers                           | 32                     | Load and Breakdown        |                  | Total Job    | 202                    |
| <b>Rates</b>                             |                      |                              |        |                                   |                        |                           |                  |              |                        |
| Circulating                              |                      | Mixing                       | 2      | Displacement                      | 2                      | Avg. Job                  |                  |              | 2                      |
| Cement Left In Pipe                      | Amount               | 0 ft                         | Reason | Shoe Joint                        |                        |                           |                  |              |                        |
| Frac Ring # 1 @                          | ID                   | Frac ring # 2 @              | ID     | Frac Ring # 3 @                   | ID                     | Frac Ring # 4 @           | ID               |              |                        |
| The Information Stated Herein Is Correct |                      |                              |        | Customer Representative Signature |                        |                           |                  |              |                        |

*The Road to Excellence Starts with Safety*

|   |  |                     |                                  |   |                         |                        |  |
|---|--|---------------------|----------------------------------|---|-------------------------|------------------------|--|
| Sold To #: 304535                                   |  | Ship To #: 2945405  |                                  | Quote #:  |                         | Sales Order #: 9742856 |  |
| Customer: PDC ENERGY EBUS                           |  |                     |                                  | Customer Rep: Sailors, Chad                             |                         |                        |  |
| Well Name: Wells Ranch                              |  |                     | Well #: 33-15                    |   | API/UWI #: 05-123-23141 |                        |  |
| Field: WARRENERG                                    |  | City (SAP): LUCERNE |                                  | County/Parish: Weld                                     |                         | State: Colorado        |  |
| Legal Description:                                  |  |                     |                                  |   |                         |                        |  |
| Lat: N 40.484 deg. OR N 40 deg. 29 min. 3.282 secs. |  |                     |                                  | Long: W 104.42 deg. OR W -105 deg. 34 min. 48.108 secs. |                         |                        |  |
| Contractor: BWS                                     |  |                     | Rig/Platform Name/Num: 22        |   |                         |                        |  |
| Job Purpose: Recement Service                       |  |                     |                                  |   | Ticket Amount:          |                        |  |
| Well Type: Development Well                         |  |                     | Job Type: Recement Service       |   |                         |                        |  |
| Sales Person: AARON, WESLEY                         |  |                     | Srvc Supervisor: LAVALLEY, LARRY |   |                         | MBU ID Emp #: 419296   |  |

| Activity Description | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments                          |
|----------------------|------------------|-------|--------------|------------|-------|---------------|--------|-----------------------------------|
|                      |                  |       |              | Stage      | Total | Tubing        | Casing |                                   |
| Start Job            | 08/14/2012 07:34 |       |              |            |       |               |        |                                   |
| Test Lines           | 08/14/2012 07:36 |       |              |            |       |               | 3384.0 | RIG WATER NO ADDITIVES            |
| Pump Spacer 1        | 08/14/2012 07:38 |       | 2            | 10         | 10    |               | 1180.0 | RIG WATER WITH CLAYWEBB III ADDED |
| Pump Spacer 2        | 08/14/2012 07:43 |       | 2            | 12         | 22    |               | 1187.0 | RIG WATER WITH MUDFLUSH III ADDED |
| Pump Spacer 1        | 08/14/2012 07:50 |       | 2            | 10         | 32    |               | 1320.0 | RIG WATER WITH CLAYWEBB III ADDED |
| Pump Lead Cement     | 08/14/2012 07:54 |       | 2            | 169        | 201   |               | 1303.0 | 435 SKS VARICEM MIXED @ 12.0 PPG  |
| Pump Displacement    | 08/14/2012 09:22 |       | 2            | 1          | 202   |               | 1313.0 | RIG WATER NO ADDITIVES            |
| End Job              | 08/14/2012 09:32 |       |              |            |       |               |        |                                   |

# PDC ENERGY WELLS RANCH 33-15 RECEMENT SERVICE



| Global Event Log |               |          |        |       |              |                   |          |        |        |
|------------------|---------------|----------|--------|-------|--------------|-------------------|----------|--------|--------|
| Intersection     |               | T1P      | T1SR   | T1D   | Intersection |                   |          |        |        |
| 1                | Starting Job  | 06:23:07 | 138.0  | 0.000 | 2            | Start Job         | 07:34:30 | 0.000  | 8.324  |
| 3                | Test Lines    | 07:36:57 | 3384   | 0.000 | 4            | Pump Spacer 1     | 07:38:23 | -9.936 | -0.040 |
| 5                | Pump Spacer 2 | 07:43:59 | 1187   | 1.900 | 6            | Pump Spacer 1     | 07:50:01 | 1320   | 2.000  |
| 7                | Pump Cement   | 07:54:59 | 1303   | 2.000 | 8            | Pump Displacement | 09:22:04 | 1313   | 1.600  |
| 9                | Shutdown      | 09:22:45 | 54.74  | 0.000 | 10           | End Job           | 09:32:23 | 0.000  | 8.355  |
| 11               | Ending Job    | 09:32:47 | -6.000 | 0.000 |              |                   |          |        |        |