

# CEMENT JOB REPORT



|   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
|---|-----------------|--------------------------|--|---|------------------------|---|----------------------------------|--|-------------------------|------------------------------|----------------------|---|---|-------------|
| <b>CUSTOMER</b> Kerr-McGee Rocky Mountain Cc  |                 | <b>DATE</b> 11-NOV-03    |  | <b>F.R. #</b> 225123904   |                        | <b>SERV. SUPV.</b> Allen Miller             |                                  |  |                         |                              |                      |   |   |             |
| <b>LEASE &amp; WELL NAME</b><br>PSC 16-34 - API 05123216400000  |                 |                          | <b>LOCATION</b><br>Sec.34-T4N-R67W           |   |                        | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado |                                  |  |                         |                              |                      |   |   |             |
| <b>DISTRICT</b><br>Brighton   |                 |                          | <b>DRILLING CONTRACTOR RIG #</b><br>Workover |   |                        | <b>TYPE OF JOB</b><br>Long String           |                                  |  |                         |                              |                      |   |   |             |
| <b>SIZE &amp; TYPE OF PLUGS</b>   |                 | <b>LIST-CSG-HARDWARE</b> |  | <b>MECHANICAL BARRIERS</b>  |                        | <b>MD</b>                                   | <b>TVD</b>                       | <b>HANGER TYPES</b>  | <b>MD</b>               | <b>TVD</b>                   |                      |   |   |             |
| N/A   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>PHYSICAL SLURRY PROPERTIES</b>   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>MATERIALS FURNISHED BY BJ</b>  |                 |                          | <b>LAB REPORT NO.</b>                        |   | <b>SACKS OF CEMENT</b> | <b>SLURRY WGT PPG</b>                       | <b>SLURRY YLD FT<sup>3</sup></b> | <b>WATER GPS</b>   | <b>PUMP TIME HR:MIN</b> | <b>Bbl SLURRY</b>            | <b>Bbl MIX WATER</b> |   |   |             |
| Claytreat Water   |                 |                          |  |   |                        | 8.34  |                                  |  |                         | 20                           |                      |   |   |             |
| 13.5 ppg Liquid Stone   |                 |                          |  |   | 87                     | 13.5  | 1.92                             | 9.15   | 04:00                   | 29.79                        | 18.94                |   |   |             |
| 10.5 ppg Liquid Stone   |                 |                          |  |   | 79                     | 10.5  | 4.26                             | 26.99  | 04:00                   | 60.00                        | 50.77                |   |   |             |
| 13.5 ppg Liquid Stone   |                 |                          |  |   | 87                     | 13.5  | 1.92                             | 9.15   | 03:30                   | 29.79                        | 18.94                |   |   |             |
| Claytreat Water   |                 |                          |  |   |                        | 8.34  |                                  |  |                         | 2                            |                      |   |   |             |
| <b>Available Mix Water</b> 88.65  |                 | <b>Bbl.</b>              |  | <b>Available Displ. Fluid</b> 160   |                        | <b>Bbl.</b>                                 |                                  | <b>TOTAL</b>   |                         | 141.57                       | 88.66                |   |   |             |
| <b>HOLE</b>   |                 |                          | <b>TBG-CSG-D.P.</b>                          |   |                        |   |                                  | <b>COLLAR DEPTHS</b>   |                         |                              |                      |   |   |             |
| <b>SIZE</b>   | <b>% EXCESS</b> | <b>DEPTH</b>             | <b>ID</b>                                    | <b>OD</b>   | <b>WGT.</b>            | <b>TYPE</b>                                 | <b>MD</b>                        | <b>TVD</b>   | <b>GRADE</b>            | <b>SHOE</b>                  | <b>FLOAT</b>         | <b>STAGE</b>                            |   |             |
| 7.875   | 0               | 7306                     | .824   | 1.05  | 1.14                   | TBG   | 2100                             | 7290   | G-105                   |                              |                      |   |   |             |
| <b>LAST CASING</b>  |                 |                          |  | <b>PKR-CMT RET-BR PL-LINER</b>  |                        |   |                                  | <b>PERF. DEPTH</b>   |                         | <b>TOP CONN</b>              |                      | <b>WELL FLUID</b>                       |   |             |
| <b>ID</b>   | <b>OD</b>       | <b>WGT</b>               | <b>TYPE</b>                                  | <b>MD</b>   | <b>TVD</b>             | <b>BRAND &amp; TYPE</b>                     |                                  | <b>DEPTH</b>   | <b>TOP</b>              | <b>BTM</b>                   | <b>SIZE</b>          | <b>THREAD</b>                           | <b>TYPE</b>                               | <b>WGT.</b> |
| 4   | 4.5             | 11.6                     | CSG  | 7306  | 500                    | NO PACKER                                   |                                  | 0  | 0                       | 0                            | 1.25                 | 8RD                                     | KCL WATER                                 | 8.9         |
| <b>DISPL. VOLUME</b>  |                 | <b>DISPL. FLUID</b>      |  | <b>CAL. PSI</b>   | <b>CAL. MAX PSI</b>    | <b>OP. MAX</b>                              | <b>MAX TBG PSI</b>               |  | <b>MAX CSG PSI</b>      |                              | <b>MIX WATER</b>     |   |   |             |
| <b>VOLUME</b>   | <b>UOM</b>      | <b>TYPE</b>              | <b>WGT.</b>                                  | <b>BUMP PLUG</b>  | <b>TO REV.</b>         | <b>SQ. PSI</b>                              | <b>RATED</b>                     | <b>Operator</b>  | <b>RATED</b>            | <b>Operator</b>              |                      |   |   |             |
| 8.6   | BBLS            | Claytreat Water          | 8.34   | 0   | 0                      | 0   | 10000                            | 5000   | 0                       | 0                            | TANK                 |   |   |             |
| <b>Circulation Prior to Job</b>   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Circulated Well:</b> Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>   |                 |                          |  | <b>Circulation Time:</b>  |                        |   |                                  | <b>Circulation Rate:</b> BPM   |                         |                              |                      |   |   |             |
| <b>Mud Density In:</b> LBS/GAL  |                 |                          |  | <b>Mud Density Out:</b> LBS/GAL   |                        |   |                                  | <b>PV &amp; YP Mud In:</b>   |                         |                              |                      | <b>PV &amp; YP Mud Out:</b>             |   |             |
| <b>Gas Present:</b> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>   |                 |                          |  | <b>Units:</b>   |                        |   |                                  | <b>Solids Present at End of Circulation:</b> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> |                         |                              |                      |   |   |             |
| <b>Displacement And Mud Removal</b>   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Displaced By:</b> Rig <input type="checkbox"/> BJ <input type="checkbox"/>   |                 |                          |  | <b>Amount Bled Back After Job:</b> BBLS   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Returns During Job:</b> <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FULL   |                 |                          |  | <b>Method Used to Verify Returns:</b>   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Cement Returns at Surface:</b> <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO   |                 |                          |  | <b>Were Returns Planned at Surface:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Pipe Movement:</b> <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE      |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Centralizers:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  |                 |                          |  | <b>Quantity:</b>  |                        |   |                                  | <b>Type:</b> <input type="checkbox"/> BOW <input type="checkbox"/> RIGID   |                         |                              |                      |   |   |             |
| <b>Job Pumped Through:</b> <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Plugs</b>  |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Number of Attempts by BJ:</b>  |                 |                          |  | <b>Competition:</b>   |                        |   |                                  | <b>Wiper Balls Used:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <b>Quantity:</b>    |                         |                              |                      |   |   |             |
| <b>Plug Catcher Used:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES   |                 |                          |  | <b>Parabow Used:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES                    |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Was There a Bottom:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  |                 |                          |  | <b>Top of Plug:</b> FT  |                        |   |                                  | <b>Bottom of Plug:</b> FT  |                         |                              |                      |   |   |             |
| <b>Squeezes (Update Original Treatment Report for Primary Job)</b>  |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>BLOCK SQUEEZE</b> <input type="checkbox"/>   |                 |                          |  | <b>SHOE SQUEEZE</b> <input type="checkbox"/>  |                        |   |                                  | <b>TOP OF LINER SQUEEZE</b> <input type="checkbox"/>   |                         |                              |                      | <b>PLANNED</b> <input type="checkbox"/> | <b>UNPLANNED</b> <input type="checkbox"/> |             |
| <b>Liner Packer:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  |                 |                          |  | <b>Bond Log:</b> <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES                        |                        |   |                                  | <b>PSI Applied:</b>  |                         | <b>Fluid Weight:</b> LBS/GAL |                      |   |   |             |
| <b>Casing Test (Update Original Treatment Report for Primary Job)</b>   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>Casing Test Pressure:</b> PSI  |                 |                          |  | <b>With</b> LBS/GAL <b>Mud</b>  |                        |   |                                  | <b>Time Held:</b> Hours Minutes  |                         |                              |                      |   |   |             |
| <b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:</b>   |                 |                          |  |   |                        |   |                                  |  |                         |                              |                      |   |   |             |
| <b>PRESSURE/RATE DETAIL</b>   |                 |                          |  |   |                        | <b>EXPLANATION</b>                          |                                  |  |                         |                              |                      |   |   |             |

# CEMENT JOB REPORT



## Shoe Test (Update Original Treatment Report for Primary Job)

|   |   |                     |
|---|---|---------------------|
| Depth Drilled out of Shoe: FT   | Target EMW: LBS/GAL                         | Actual EMW: LBS/GAL |
| Number of Times Tests Conducted:  | Mud Weight When Test was Conducted: LBS/GAL |                     |
| Problems Before Job (I.E. Running Casing, Circulating Well, ETC)                        |   |                     |
| Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC) |   |                     |
| Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)                   |   |                     |

| PRESSURE/RATE DETAIL |                |         |             |                      | EXPLANATION   |  |  |
|----------------------|----------------|---------|-------------|----------------------|---------------|--|--|
| TIME<br>HR:MIN.      | PRESSURE - PSI |         | RATE<br>BPM | Bbl. FLUID<br>PUMPED | FLUID<br>TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/>                            | CO. REP. <input checked="" type="checkbox"/> |
|                      | PIPE           | ANNULUS |             |                      |               | TEST LINES   | 7000 PSI                                     |
|                      |                |         |             |                      |               | CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> |  |
| 10:20                | 0              | 0       | 0           | 0                    | -----         | ARRIVED LOCATION   |  |
| 14:00                | 0              | 0       | 0           | 0                    | -----         | HELD SAFETY MEETING  |  |
| 14:10                | 7000           | 0       | 0           | 0                    | H2O           | TEST LINES   |  |
| 14:12                | 4300           | 0       | 1.5         | 10                   | H2O           | WATER SPACER   |  |
| 14:18                | 4300           | 0       | 1.45        | 30                   | CMT.          | PUMP 1ST. STAGE L.S.S. @ 13.6PPG   |  |
| 14:45                | 2900           | 0       | 1.5         | 60                   | CMT.          | PUMP SPACER L.S.S. @ 10.5 PPG  |  |
| 15:28                | 3500           | 0       | 1.38        | 30                   | CMT.          | PUMP 2ND STAGE L.S.S. @ 13.5 PPG   |  |
| 15:52                | 3300           | 0       | 1.38        | 2                    | H2O           | DISP.  |  |

|   |                  |   |                           |                   |                 |   |                               |
|---|------------------|---|---------------------------|-------------------|-----------------|---|-------------------------------|
| BUMPED PLUG                             | PSI TO BUMP PLUG | TEST FLOAT EQUIP.                       | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT                     | Service Supervisor Signature: |
| Y <input checked="" type="checkbox"/> N | 0                | Y <input checked="" type="checkbox"/> N | 0                         | 122               | 0               | Y <input checked="" type="checkbox"/> N |                               |