

# CEMENT JOB REPORT



|   |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
|---|-----------------|--------------------------------------|---|---|----------------------------|---|-----------------------|---|---------------------|-------------------------|-------------------|----------------------------------|------------------------------------|
| <b>CUSTOMER</b> CARRIZO OIL & GAS INC XML   |                 |                                      | <b>DATE</b> 21-MAR-13                               |   | <b>F.R. #</b> 1001974423   |   |                       | <b>SERV. SUPV.</b> RYAN SULLIVAN  |                     |                         |                   |                                  |                                    |
| <b>LEASE &amp; WELL NAME</b><br>BRINGELSON RANCH #3-34-9-58 - API 0512336371  |                 |                                      | <b>LOCATION</b><br>34-9N-58W                        |   |                            | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado |                       |   |                     |                         |                   |                                  |                                    |
| <b>DISTRICT</b><br>Brighton   |                 |                                      | <b>DRILLING CONTRACTOR RIG #</b><br>Xtreme Coil #17 |   |                            | <b>TYPE OF JOB</b><br>Surface               |                       |   |                     |                         |                   |                                  |                                    |
| <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>                       |                                    |
| Cement Plug, Rubber, Top 9-5/8 in   |                 | Centralizer, with Pins, 9-5/8 in     |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
|   |                 | Float Shoe/Poppet Valve 9-5/8 - 8r   |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
|   |                 | Float Collar, Pop Valve, 9-5/8 - 8rd |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| <b>MATERIALS FURNISHED BY BJ</b>  |                 |                                      | <b>LAB REPORT NO.</b>                               |   |                            | <b>PHYSICAL SLURRY PROPERTIES</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>             |                                    |
| Fresh Water + 2 lbs Red Dye   |                 |                                      | N/A   |   |                            | 0   | 8.34                  | 0   | 0                   | 00:00                   | 10                |                                  |                                    |
| Type III Cement + adds  |                 |                                      |   |   |                            | 147   | 14.5                  | 1.40  | 6.81                | 02:30                   | 36.70             | 23.83                            |                                    |
| Premium Lite Cement + adds  |                 |                                      |   |   |                            | 410   | 13                    | 1.77  | 9.20                | 03:00                   | 129.3             | 89.98                            |                                    |
| Fresh Water   |                 |                                      | N/A   |   |                            | 0   | 8.34                  | 0   | 0                   | 00:00                   | 106.9             |                                  |                                    |
| Fresh Water   |                 |                                      | N/A   |   |                            | 0   | 8.34                  | 0   | 0                   | 00:00                   | 15                |                                  |                                    |
| <b>Available Mix Water</b> 300 Bbl.   |                 |                                      | <b>Available Displ. Fluid</b> 300 Bbl.              |   |                            | <b>TOTAL</b>                                |                       |   |                     |                         | 297.90            | 113.80                           |                                    |
| <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>                     |                                    |
| 12.25   | 100             | 1442                                 | 8.921   | 9.625   | 36                         | CSG   | 1427                  | 1427  | K-55                | 1427                    | 1383              | 0                                |                                    |
| <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>                        |
| 15.   | 16              | 65                                   |   | 70  | 70                         | No packer                                   | 0                     | 0   | 0                   | 9.625                   | 8RD               | WATER BASED                      | 8.4                                |
| <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>         |                   |                                  |                                    |
| 106.9   | BBLS            | Fresh Water                          | 8.34  | 375   | 0                          | 0   | 0                     | 0   | 2816                | 2000                    | Rig               |                                  |                                    |
| <b>Circulation Prior to Job</b>   |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>  |                 |                                      |   | Circulation Time: 1.5   |                            |   |                       | Circulation Rate: 5 BPM   |                     |                         |                   |                                  |                                    |
| Mud Density In: 8.4 LBS/GAL Mud Density Out: 8.4 LBS/GAL  |                 |                                      |   | PV & YP Mud In: 0   |                            |   |                       | PV & YP Mud Out: 0  |                     |                         |                   |                                  |                                    |
| Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> Units:   |                 |                                      |   | Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| <b>Displacement And Mud Removal</b>   |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>   |                 |                                      |   | Amount Bled Back After Job: .7 BBLS   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL   |                 |                                      |   | Method Used to Verify Returns: Visually   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Cement Returns at Surface: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO  |                 |                                      |   | Were Returns Planned at Surface: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES      |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Pipe Movement: <input type="checkbox"/> ROTATION <input type="checkbox"/> RECIPROCATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE      |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES   |                 |                                      |   | Quantity: 14  |                            |   |                       | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID                               |                     |                         |                   |                                  |                                    |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| <b>Plugs</b>  |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Number of Attempts by BJ: 0   |                 |                                      |   | Competition: 0  |                            |   |                       | Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES Quantity: |                     |                         |                   |                                  |                                    |
| Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES  |                 |                                      |   | Parabow Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES                         |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES   |                 |                                      |   | Top of Plug: 0 FT   |                            |   |                       | Bottom of Plug: 0 FT  |                     |                         |                   |                                  |                                    |
| <b>Squeezes (Update Original Treatment Report for Primary Job)</b>  |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| BLOCK SQUEEZE <input type="checkbox"/>  |                 |                                      |   | SHOE SQUEEZE <input type="checkbox"/>   |                            |   |                       | TOP OF LINER SQUEEZE <input type="checkbox"/>   |                     |                         |                   | PLANNED <input type="checkbox"/> | UNPLANNED <input type="checkbox"/> |
| Liner Packer: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES   |                 |                                      |   | Bond Log: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES                             |                            |   |                       | PSI Applied: 0  |                     | Fluid Weight: 0 LBS/GAL |                   |                                  |                                    |
| <b>Casing Test (Update Original Treatment Report for Primary Job)</b>   |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |
| Casing Test Pressure: 1514 PSI  |                 |                                      |   | With 8.4 LBS/GAL Mud  |                            |   |                       | Time Held: 00 Hours 18 Minutes  |                     |                         |                   |                                  |                                    |
| <b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None</b>  |                 |                                      |   |   |                            |   |                       |   |                     |                         |                   |                                  |                                    |

# CEMENT JOB REPORT



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

|                                    |   |                       |
|------------------------------------|---|-----------------------|
| Depth Drilled out of Shoe: 0 FT    | Target EMW: 0 LBS/GAL                         | Actual EMW: 0 LBS/GAL |
| Number of Times Tests Conducted: 0 | Mud Weight When Test was Conducted: 0 LBS/GAL |                       |

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)  
None

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)  
None

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)  
None

| PRESSURE/RATE DETAIL |                |         |          |                   |            | EXPLANATION   |          |
|----------------------|----------------|---------|----------|-------------------|------------|---|----------|
| TIME HR:MIN.         | PRESSURE - PSI |         | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input type="checkbox"/>                         |          |
|                      | PIPE           | ANNULUS |          |                   |            | TEST LINES  | 3098 PSI |
|                      |                |         |          |                   |            | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>                                |          |
| 04:35                | 0              | 0       | 0        | 0                 | N/A        | Arrive on location (customer requested on loc 05:00), 96 miles, casing landed, rig circulating                        |          |
| 04:45                | 0              | 0       | 0        | 0                 | N/A        | Spot trucks on location, pre-rig up safety meeting  |          |
| 05:45                | 0              | 0       | 0        | 0                 | N/A        | Pre-job safety meeting  |          |
| 06:20                | 0              | 0       | 0        | 2                 | WATER      | Load lines  |          |
| 06:22                | 1689           | 0       | 0        | 0                 | WATER      | Low pressure test   |          |
| 06:24                | 3098           | 0       | 0        | 0                 | WATER      | High pressure test  |          |
| 06:26                | 239            | 0       | 5.5      | 15                | WATER      | Freshwater spacer   |          |
| 06:29                | 242            | 0       | 5.6      | 10                | WATER      | Dyed water spacer   |          |
| 06:34                | 190            | 0       | 4.1      | 127               | CEMENT     | Batch-up, weigh, & pump 410 sx of PLC + 0.08% Static Free + 3% CaCl + 0.25 lbs/sk Cello Flake + 6% Bentonite @ 13 ppg |          |
| 07:04                | 225            | 0       | 4.1      | 35                | CEMENT     | Mix & pump 147 sx of Type III + 0.08 lbs/sk Static Free + 1% CaCl + 0.25 lbs/sk Cello Flake @ 14.5 ppg                |          |
| 07:15                | 0              | 0       | 0        | 0                 | N/A        | Drop plug   |          |
| 07:22                | 199            | 0       | 5.5      | 60                | WATER      | Displace  |          |
| 07:33                | 292            | 0       | 4.1      | 30                | WATER      | Rate change   |          |
| 07:40                | 413            | 0       | 2.6      | 16.8              | WATER      | Rate change   |          |
| 07:47                | 516            | 0       | 2.6      | 106.8             | WATER      | Bump plug to 1514 psi, begin casing test, per customer  |          |
| 08:05                | 0              | 0       | 0        | 0                 | N/A        | Casing test complete @ 1478 psi, 0.7 bbls bled back, floats held  |          |
| 08:10                | 0              | 0       | 0        | 0                 | N/A        | Pre-rig down safety meeting   |          |
| 08:50                | 0              | 0       | 0        | 0                 | N/A        | Leave location  |          |

| 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: |
|--|------------------|--|---------------------------|-------------------|-----------------|--|-------------------------------|
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 516              | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 38                        | 293.8             | 0               | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                               |

