

# CEMENT JOB REPORT



|  |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
|--|-----------------|---|--------------------------------------|---|---------------------|---|--------------------|------------------------------------|--------------------|---|---------------------|-----------------------------------|-----------------------|----------------------------------|------------------|-------------------------|-------------------|----------------------|
| <b>CUSTOMER</b> WHITING OIL & GAS CORP XM  |                 |   |                                      | <b>DATE</b> 07-MAY-14                         |                     | <b>F.R. #</b> 10011065495   |                    |                                    |                    | <b>SERV. SUPV.</b> ERIC S DEWIT                                   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| <b>LEASE &amp; WELL NAME</b><br>RAZOR FEDERAL #26L-2304B - API 0512337987000   |                 |   |                                      |   |                     | <b>LOCATION</b><br>26-10N-58W   |                    |                                    |                    | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado                       |                     |                                   |                       |                                  |                  |                         |                   |                      |
| <b>DISTRICT</b><br>Brighton  |                 |   |                                      |   |                     | <b>DRILLING CONTRACTOR RIG #</b><br>CADE 23   |                    |                                    |                    | <b>TYPE OF JOB</b><br>Liner                                       |                     |                                   |                       |                                  |                  |                         |                   |                      |
| <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>                       |                  |                         |                   |                      |
| Dart For Plug Catcher, 4-1/2 In  |                 |   | Centralizer, with Pins, 4-1/2 in     |   |                     | Liner Packer  |                    |                                    | 5057               | 5057  | Liner               |                                   | 5057                  | 5057                             |                  |                         |                   |                      |
|  |                 |   | Float Collar, Auto Fill, 4-1/2 - 8rd |   |                     |   |                    |                                    |                    |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
|  |                 |   | Float Shoe 4-1/2 - 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> |
| 50:50 + Adds   |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     | 723                               | 14.5                  | 1.21                             | 5.26             | 07:49                   | 156.28            | 90.63                |
| Fresh Water  |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     | 0                                 | 8.34                  | 0                                | 0                | 00:00                   | 170.1             |                      |
| Ultraflush II  |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     | 0                                 | 12                    | 3.77                             | 24.34            | 00:00                   | 20                | 17.26                |
| Fresh Water  |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     | 0                                 | 8.34                  | 0                                | 0                | 00:00                   | 10                |                      |
| <b>Available Mix Water</b> 500 <b>Bbl.</b>   |                 |   |                                      |   |                     | <b>Available Displ. Fluid</b> 500 <b>Bbl.</b>   |                    |                                    |                    |   |                     | <b>TOTAL</b> 356.38 107.89        |                       |                                  |                  |                         |                   |                      |
| <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>                      |                       |                                  |                  |                         |                   |                      |
| 6  | 15              | 12021   | 4                                    | 4.5   | 11.6                | CSG   | 14021              | 7278                               | N-80               | 14011   | 13928               | 0                                 |                       |                                  |                  |                         |                   |                      |
|  |                 |   | 3.34                                 | 4   | 14                  | DP  | 5120               | 5120                               | S-135              |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| <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>           |                                  |                  |                         |                   |                      |
| 6.2  | 7               | 29  | CSG                                  | 6048  | 5687                | Liner   | 0                  | 0                                  | 0                  | 2   | 8RND                | WATER BASED                       | 10.2                  |                                  |                  |                         |                   |                      |
| <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>   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| 170.1  | BBLS            | Fresh Water   | 8.34                                 | 607   | 0                   | 0   | 0                  | 0                                  | 6226               | 4000  | Frac tank           |                                   |                       |                                  |                  |                         |                   |                      |
| <b>Circulation Prior to Job</b>  |                 |   |                                      |   |                     |   |                    |                                    |                    |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>   |                 |   |                                      |   |                     | Circulation Time: 1   |                    |                                    |                    | Circulation Rate: 3 BPM   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| Mud Density In: 10.2 LBS/G Mud Density Out: 10.2 LBS/GAL   |                 |   |                                      |   |                     | PV & YP Mud In: 12  |                    |                                    |                    | PV & YP Mud Out: 12   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| 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: 1.5 BBLS  |                    |                                    |                    |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| Returns During Job: <input type="checkbox"/> NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL  |                 |   |                                      |   |                     | Method Used to Verify Returns: Visual   |                    |                                    |                    |   |                     |                                   |                       |                                  |                  |                         |                   |                      |
| 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: 90  |                    |                                    |                    | 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 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: 0 PSI  |                 |   |                                      |   |                     | With 0 LBS/GAL Mud  |                    | Time Held: 00 Hours 00 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<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   | 5014 PSI  |
|  |                                |   |                                      |                                |                            | CIRCULATING WELL - RIG   | <input checked="" type="checkbox"/> BJ <input type="checkbox"/> |
| 00:30  | 0                              | 0   | 0                                    | 0                              | N/A                        | Leave yard   |   |
| 02:54  | 0                              | 0   | 0                                    | 0                              | N/A                        | Arrive on location (125 miles) Rig still running casing  |   |
| 10:00  | 0                              | 0   | 0                                    | 0                              | N/A                        | Spot trucks  |   |
| 10:15  | 0                              | 0   | 0                                    | 0                              | N/A                        | Pre rig up safety meeting  |   |
| 11:51  | 0                              | 0   | 0                                    | 0                              | N/A                        | Pre job safety meeting   |   |
| 12:57  | 0                              | 0   | 1                                    | 1                              | H2O                        | Load pumps and lines   |   |
| 12:59  | 5014                           | 0   | 0                                    | 0                              | H2O                        | Pressure test pumps and lines  |   |
| 13:10  | 1462                           | 0   | 4.2                                  | 10                             | H2O                        | Fresh water spacer   |   |
| 13:18  | 984                            | 0   | 2.2                                  | 20                             | H2O                        | Ultra flush spacer @12 ppg   |   |
| 13:32  | 1462                           | 0   | 4.2                                  | 153                            | CMT                        | Batch, pump, and weigh cement slurry @14.5 ppg   |   |
| 14:20  | 0                              | 0   | 0                                    | 0                              | N/A                        | Wash up, release dart  |   |
| 14:29  | 1236                           | 0   | 4.8                                  | 10                             | H2O                        | Displace first 10 bbls with sugar water  |   |
| 14:31  | 1236                           | 0   | 4                                    | 10                             | H2O                        | Drop rate, displace with KCL water   |   |
| 14:34  | 581                            | 0   | 2                                    | 14                             | H2O                        | Drop rate to pick up wiper plug  |   |
| 14:42  | 3602                           | 0   | 0                                    | 0                              | H2O                        | Pick up wiper plug   |   |
| 14:43  | 1487                           | 0   | 3.5                                  | 111                            | H2O                        | Finish displacement  |   |
| 15:17  | 1286                           | 0   | 2                                    | 24                             | H2O                        | Drop rate  |   |
| 15:27  | 1764                           | 0   | 0                                    | 0                              | H2O                        | Bump plug  |   |
| 15:30  | 0                              | 0   | 0                                    | 0                              | H2O                        | Check floats, floats held  |   |
| 15:53  | 0                              | 1513  | 0                                    | 0                              | H2O                        | Pressure test backside   |   |
| 16:13  | 555                            | 0   | 0                                    | 0                              | H2O                        | Sting out  |   |
| 16:14  | 1084                           | 0   | 5.5                                  |                                | H2O                        | Roll the 7" clean  |   |
| 16:46  | 0                              | 0   | 0                                    | 0                              | N/A                        | Shut down  |   |
| 16:48  | 0                              | 0   | 0                                    | 0                              | N/A                        | Pre rig down safety meeting  |   |
| 18:00  | 0                              | 0   | 0                                    | 0                              | N/A                        | Leave location   |   |
| 20:45  | 0                              | 0   | 0                                    | 0                              | N/A                        | Arrive back at the yard  |   |
| BUMPED<br>PLUG<br><input type="checkbox"/> Y <input checked="" type="checkbox"/> N | PSI TO<br>BUMP<br>PLUG<br>1286 | TEST<br>FLOAT<br>EQUIP.<br><input type="checkbox"/> Y <input checked="" type="checkbox"/> N | BBL.CMT<br>RETURNS/<br>REVERSED<br>0 | TOTAL<br>BBL.<br>PUMPED<br>483 | PSI<br>LEFT ON<br>CSG<br>0 | SPOT<br>TOP OUT<br>CEMENT<br>Y <input type="checkbox"/> N <input checked="" type="checkbox"/>            | Service Supervisor Signature:                                   |

