

# CEMENT JOB REPORT



|   |                                      |   |                           |   |                                 |                         |                                   |
|---|--------------------------------------|---|---------------------------|---|---------------------------------|-------------------------|-----------------------------------|
| <b>CUSTOMER</b> WHITING OIL & GAS CORP XM   |                                      | <b>DATE</b> 12-APR-15                         | <b>F.R. #</b> 10011149003 |   | <b>SERV. SUPV.</b> Zachary Fagg |                         |                                   |
| <b>LEASE &amp; WELL NAME</b><br>HORSETAIL #08D-1704 - API 05123410240000  |                                      | <b>LOCATION</b><br>8-10N-57W                  |                           | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado   |                                 |                         |                                   |
| <b>DISTRICT</b><br>Brighton   |                                      | <b>DRILLING CONTRACTOR RIG #</b><br>UNIT 406  |                           | <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>    |                                   |
| 9-5/8" Top Cem Plug, Nitrile cvr, Ph  | Centralizer, with Fins, 9-5/8 in     | NONE  | 0                         | 0   | Casing                          | 1606 1606               |                                   |
|   | Float Collar, Auto Fill, 9-5/8 - 8rd |   |                           |   |                                 |                         |                                   |
|   | Float Shoe 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> |                                   |
| Fresh Water   |                                      | 0   | 8.34                      | 0   | 0                               | 00:00                   |                                   |
| Type III Cement + Adds  | C0402515                             | 778   | 14.5                      | 1.40  | 6.81                            | 01:54                   |                                   |
| Fresh Water   |                                      | 0   | 8.34                      | 0   | 0                               | 00:00                   |                                   |
| <b>Available Mix Water</b> 500 <b>Bbl.</b>  |                                      | <b>Available Displ. Fluid</b> 500 <b>Bbl.</b> |                           | <b>TOTAL</b>  |                                 | 332.93 126.10           |                                   |
| <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> |
| 13.5  | 25                                   | 1640  | 8.921                     | 9.625   | 36                              | CSG                     | 1640 1640 J-55                    |
| <b>LAST CASING</b>  |                                      | <b>PKR-CMT RET-BR PL-LINER</b>                |                           | <b>PERF. DEPTH</b>  |                                 | <b>TOP CONN</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>                      |
| 19.   | 20                                   | 94  | ANNULUS                   | 80  | 80                              | NO PACKER               | 0                                 |
| <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>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>                      |
| 123   | BBLS                                 | Fresh Water                                   | 8.34                      | 1308  | 0                               | 0                       | 0                                 |
|   |                                      |   |                           | <b>MAX CSG PSI</b>  | <b>MIX WATER</b>                |                         |                                   |
|   |                                      |   |                           | <b>RATED</b>  | <b>Operator</b>                 | <b>RATED</b>            | <b>Operator</b>                   |
|   |                                      |   |                           | 2816  | 1511                            | RIG (UPRIGHT)           |                                   |
| <b>Circulation Prior to Job</b>   |                                      |   |                           |   |                                 |                         |                                   |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>  |                                      |   |                           | Circulation Time: .5  |                                 |                         |                                   |
| Mud Density In: 8.4 LBS/GAL   |                                      |   |                           | Mud Density Out: 8.4 LBS/GAL  |                                 |                         |                                   |
| 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: .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: 13  |                                 |                         |                                   |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD |                                      |   |                           | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID   |                                 |                         |                                   |
| <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: 1511 PSI  |                                      |   |                           | With 8.4 LBS/GAL Mud  |                                 |                         |                                   |
|   |                                      |   |                           | Time Held: 00 Hours 15 Minutes  |                                 |                         |                                   |
| <b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE</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: 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 4214 PSI  |  |
|                      |                |         |             |                      |               | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>                   |  |
| 12:23                | 0              | 0       | 0           | 0                    | N/A           | LEFT DISTRICT  |  |
| 14:40                | 0              | 0       | 0           | 0                    | N/A           | ARRIVE ON LOCATION (118 MILES) RTS 1500  |  |
| 14:55                | 0              | 0       | 0           | 0                    | N/A           | SPOT TRUCKS  |  |
| 15:10                | 0              | 0       | 0           | 0                    | N/A           | PRE RIG UP SAFETY MEETING  |  |
| 16:30                | 0              | 0       | 0           | 0                    | N/A           | NPT (RIG RUNNING CASING)   |  |
| 22:50                | 0              | 0       | 0           | 0                    | N/A           | SAFETY MEETING   |  |
| 23:24                | 25             | 0       | 1.5         | 2                    | H2O           | LOAD LINES   |  |
| 23:28                | 1645           | 0       | 0           | 0                    | H2O           | LOW PRESSURE TEST  |  |
| 23:33                | 5627           | 0       | 0           | 0                    | H2O           | HIGH PRESSURE TEST 1ST ATTEMPT   |  |
| 23:40                | 4214           | 0       | 0           | 0                    | H2O           | HIGH PRESSURE TEST 2ND ATTEMPT (GOOD)  |  |
| 23:43                | 155            | 0       | 4.7         | 15                   | H2O           | SPACER   |  |
| 23:53                | 386            | 0       | 4.8         | 190                  | CMT           | BATCH, WEIGH AND PUMP 14.5# SLURRY (778 SX)  |  |
| 00:50                | 0              | 0       | 0           | 0                    | N/A           | SHUT DOWN, DROP PLUG AND WASH UP   |  |
| 00:57                | 155            | 0       | 4.8         | 114                  | MUD           | DISPLACEMENT   |  |
| 01:18                | 974            | 0       | 2           | 123                  | MUD           | SLOW RATE  |  |
| 01:23                | 1311           | 0       | 0           | 0                    | MUD           | BUMP PLUG (15 BBLs BACK TO SURFACE)  |  |
| 01:24                | 1517           | 0       | 0           | 0                    | N/A           | CASING TEST 15 MIN   |  |
| 01:39                | 0              | 0       | 0           | 0                    | N/A           | CHECK FLOATS (GOOD)  |  |
| 01:41                | 0              | 0       | 0           | 0                    | N/A           | RIG DOWN SAFETY MEETING  |  |
| 03:00                | 0              | 0       | 0           | 0                    | N/A           | LEAVE LOCATION   |  |
| 05:45                | 0              | 0       | 0           | 0                    | N/A           | ARRIVE BACK AT DISTRICT  |  |

| BUMPED<br>PLUG   | PSI TO<br>BUMP<br>PLUG | TEST<br>FLOAT<br>EQUIP.  | BBL.CMT<br>RETURNS/<br>REVERSED | TOTAL<br>BBL.<br>PUMPED | PSI<br>LEFT ON<br>CSG | SPOT<br>TOP OUT<br>CEMENT  | Service Supervisor Signature: |
|--|------------------------|--|---------------------------------|-------------------------|-----------------------|--|-------------------------------|
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 1311                   | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 15                              | 330                     | 0                     | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                               |

## SURFACE

