

# CEMENT JOB REPORT



|  |                 |                                |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
|--|-----------------|--------------------------------|--------------------------------|----------------------------------|---------------------|---|--------------------|---|---|--|-------------------|-----------------------------------|-----------------------|----------------------------------|------------------|-------------------------|-------------------|----------------------|
| <b>CUSTOMER</b> EXTRACTION OIL AND GAS   |                 |                                |                                | <b>DATE</b> 19-AUG-15            |                     | <b>F.R. #</b> 10011172230   |                    |   |   | <b>SERV. SUPV.</b> VITALIJS A NEVERDASOV |                   |                                   |                       |                                  |                  |                         |                   |                      |
| <b>LEASE &amp; WELL NAME</b><br>WAAG #18 - API 05123403540000  |                 |                                |                                | <b>LOCATION</b><br>19-7N-65W     |                     |   |                    | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| <b>DISTRICT</b><br>Brighton  |                 |                                |                                | <b>DRILLING CONTRACTOR RIG #</b> |                     |   |                    | <b>TYPE OF JOB</b><br>Intermediate          |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| <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 7 in  |                 | Float Collar, Al Flap, 7 - 8rd |                                |                                  |                     | NONE  |                    | 0   | 0   | NONE                                     |                   | 0                                 | 0                     |                                  |                  |                         |                   |                      |
|  |                 | Float Shoe 7 - 8rd             |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
|  |                 | Centralizer, with Pins, 7 in   |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| <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  |                 |                                |                                |                                  |                     | N/A   |                    |   |   |  |                   | 0                                 | 8.34                  | 0                                | 0                | 00:00                   | 20                |                      |
| Lead Slurry  |                 |                                |                                |                                  |                     | C08-050-15  |                    |   |   |  |                   | 480                               | 12.7                  | 1.86                             | 9.98             | 04:56                   | 159               | 114.23               |
| MUD  |                 |                                |                                |                                  |                     | N/A   |                    |   |   |  |                   | 0                                 | 10                    | 0                                | 0                | 00:00                   | 288.2             |                      |
| UltraFlush II  |                 |                                |                                |                                  |                     | N/A   |                    |   |   |  |                   | 0                                 | 11.5                  | 0                                | 0                | 00:00                   | 20                |                      |
| Tail Slurry  |                 |                                |                                |                                  |                     | C08-050-15  |                    |   |   |  |                   | 345                               | 13.8                  | 1.47                             | 6.78             | 04:34                   | 91.24             | 56.32                |
| <b>Available Mix Water</b> 800 <b>Bbl.</b>   |                 |                                |                                |                                  |                     | <b>Available Displ. Fluid</b> 400 <b>Bbl.</b>   |                    |   |   |  |                   | <b>TOTAL</b> 578.44 170.55        |                       |                                  |                  |                         |                   |                      |
| <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>                      |                       |                                  |                  |                         |                   |                      |
| 8.75   | 25              | 7590                           | 6.276                          | 7                                | 26                  | CSG   | 7574               | 7180  | P-110   | 7574                                     | 7532              | 1                                 |                       |                                  |                  |                         |                   |                      |
| <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>           |                                  |                  |                         |                   |                      |
| 8.9  | 9.63            | 36                             | CSG                            | 886                              | 886                 | NO PACKER   | 0                  | 0   | 0   | 7  | 8RND              | WATER BASED                       | 10                    |                                  |                  |                         |                   |                      |
| <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>                          |                   |                                   |                       |                                  |                  |                         |                   |                      |
| 285  | BBLS            | MUD                            | 10                             | 1061                             | 0                   | 0   | 0                  | 0   | 7968  | 3000                                     | UPRIGHT           |                                   |                       |                                  |                  |                         |                   |                      |
| <b>Circulation Prior to Job</b>  |                 |                                |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>   |                 |                                |                                |                                  |                     | Circulation Time: 1   |                    |   | Circulation Rate: 5 BPM   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| Mud Density In: 10 LBS/GAL Mud Density Out: 10 LBS/GAL   |                 |                                |                                |                                  |                     | PV & YP Mud In: 18  |                    |   | PV & YP Mud Out: 18   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| 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: 2 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 type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE                        |                 |                                |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES  |                 |                                |                                |                                  |                     | Quantity: 40  |                    |   | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" 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: 2490 PSI With 8.4 LBS/GAL Mud  |                 |                                |                                |                                  |                     | Time Held: 00 Hours 10 Minutes  |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |
| <b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING</b> NONE  |                 |                                |                                |                                  |                     |   |                    |   |   |  |                   |                                   |                       |                                  |                  |                         |                   |                      |

# 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)  
 PRODUCT TREE ON CEMENT PUMP HAD CHUNKS OF DRY CEMENT. HAD POOR PRODUCT DELIVERY AT THE BEGINNING

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 4347 PSI  |
|                      |                |         |             |                      |               | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>   |
| 02:45                | 0              | 0       | 0           | 0                    | N/A           | YARD CALL  |
| 04:59                | 0              | 0       | 0           | 0                    | N/A           | LEAVE DISTRICT   |
| 06:01                | 0              | 0       | 0           | 0                    | N/A           | ARRIVE ON LOCATION, 42 MILES/ RIG IS WAITING ON CEMENT CREW/ CUSTOMER REQUESTED CREW @ 03:30/ CREW COULD NOT CLOCK IN TO WORK TILL 2:45 AM |
| 06:23                | 0              | 0       | 0           | 0                    | N/A           | SPOT TRUCKS  |
| 06:31                | 0              | 0       | 0           | 0                    | N/A           | PRE RIG UP SAFETY MEETING  |
| 07:18                | 0              | 0       | 0           | 0                    | N/A           | PRE JOB SAFETY MEETING   |
| 08:05                | 128            | 0       | 1.5         | 1                    | H2O           | LOAD LINE  |
| 08:10                | 4347           | 0       | .4          | .1                   | H2O           | PRESSURE TEST  |
| 08:13                | 411            | 0       | 4.8         | 20                   | H2O           | FRESH WATER SPACER   |
| 08:23                | 218            | 0       | 3           | 19                   | H2O           | ULTRA FLUSH SPACER @ 11.5 PPG  |
| 08:36                | 489            | 0       | 5.2         | 157                  | CMT           | BATCHWEIGH/PUMP 480 SX OF LEAD CEMENT @ 12.7 PPG   |
| 09:33                | 107            | 0       | 3           | 89                   | CMT           | PUMP 345 SX OF TAIL @ 13.8 PPG   |
| 10:06                | 0              | 0       | 0           | 0                    | N/A           | SHUT DOWN/ DROP PLUG   |
| 10:13                | 1398           | 0       | 7.2         | 220                  | MUD           | DISPLACEMENT   |
| 10:48                | 1364           | 0       | 5           | 35                   | MUD           | SLOW RATE  |
| 10:54                | 1507           | 0       | 2.5         | 30                   | MUD           | SLOW RATE  |
| 11:07                | 2481           | 0       | 0           | 0                    | N/A           | BUMP PLUG  |
| 11:17                | 0              | 0       | 0           | 0                    | N/A           | CHECK FLOATS/ FLOATS HELD  |
| 11:23                | 0              | 0       | 0           | 0                    | N/A           | RIG DOWN SAFETY MEETING  |

| 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"/> N | 1507                   | <input checked="" type="checkbox"/> N | 1                               | 572                     | 0                     | Y <input checked="" type="checkbox"/> N |                               |