

# CEMENT JOB REPORT



|   |                 |                                |                                |  |                            |                         |                    |   |                       |                                  |                                  |                         |                                    |                      |
|---|-----------------|--------------------------------|--------------------------------|--|----------------------------|-------------------------|--------------------|---|-----------------------|----------------------------------|----------------------------------|-------------------------|------------------------------------|----------------------|
| <b>CUSTOMER</b> CARRIZO OIL & GAS INC XML   |                 |                                | <b>DATE</b> 11-SEP-13          |  | <b>F.R. #</b> 10011012833  |                         |                    | <b>SERV. SUPV.</b> RYAN R STEVENS   |                       |                                  |                                  |                         |                                    |                      |
| <b>LEASE &amp; WELL NAME</b><br>BAILEY #5-26-8-60 - API 05123373720000  |                 |                                |                                | <b>LOCATION</b><br>26-8N-60W   |                            |                         |                    | <b>COUNTY-PARISH-BLOCK</b><br>Weld Colorado   |                       |                                  |                                  |                         |                                    |                      |
| <b>DISTRICT</b><br>Brighton   |                 |                                |                                | <b>DRILLING CONTRACTOR RIG #</b><br>Xtreme 17  |                            |                         |                    | <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, Bottom 7 in  |                 | Float Collar, Al Flap, 7 - 8rd |                                |  | None                       |                         |                    | 0   | 0                     | None                             |                                  | 0                       | 0                                  |                      |
| Cement Plug, Rubber, Top 7 in   |                 | Float Shoe 7 - 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> |
| Drilling Mud + Biocide  |                 |                                |                                | N/A  |                            |                         |                    | 0   | 0                     | 0                                | 0                                | 00:00                   | 0                                  |                      |
| Fresh Water   |                 |                                |                                | N/A  |                            |                         |                    | 0   | 8.33                  | 0                                | 0                                | 00:00                   | 10                                 |                      |
| SealBond + SB Plus  |                 |                                |                                | N/A  |                            |                         |                    | 0   | 8.4                   | 0                                | 0                                | 00:00                   | 40                                 |                      |
| Premium Lite Cmt + adds   |                 |                                |                                | N/A  |                            |                         |                    | 391   | 12.5                  | 1.94                             | 10.65                            | 06:59                   | 135.13                             | 99.13                |
| 50:50 (Poz:Class G) + adds  |                 |                                |                                | N/A  |                            |                         |                    | 184   | 13.5                  | 1.45                             | 7.07                             | 04:25                   | 47.44                              | 30.96                |
| Drilling Mud  |                 |                                |                                | N/A  |                            |                         |                    | 0   | 9.5                   | 0                                | 0                                | 00:00                   | 246.7                              |                      |
| <b>Available Mix Water</b> 500 Bbl.   |                 |                                |                                | <b>Available Displ. Fluid</b> 500 Bbl.   |                            |                         |                    | <b>TOTAL</b>  |                       |                                  | 479.28                           | 130.09                  |                                    |                      |
| <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  | 0               | 6337                           | 6.366                          | 7  | 23                         | CSG                     | 6303               | 6208  | P-110                 | 6303                             | 6267                             | 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>          |
| 8.9   | 9.63            | 36                             | CSG                            | 1414   | 1414                       | No liner                |                    | 0   | 0                     | 0                                | 7                                | 8RD                     | WATER BASED                        | 9.6                  |
| <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>         |                                    |                      |
| 246.7   | BBLS            | Drilling Mud                   |                                |  | 9.5                        | 1059                    | 0                  | 0   | 0                     | 0                                | 3488                             | 3000                    | Rig Tank                           |                      |
| <b>Circulation Prior to Job</b>   |                 |                                |                                |  |                            |                         |                    |   |                       |                                  |                                  |                         |                                    |                      |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>  |                 |                                |                                | Circulation Time: .5   |                            |                         |                    | Circulation Rate: 6 BPM   |                       |                                  |                                  |                         |                                    |                      |
| Mud Density In: 9.6 LBS/GAL   |                 |                                |                                | Mud Density Out: 9.6 LBS/GAL   |                            |                         |                    | PV & YP Mud In: 16  |                       |                                  | PV & YP Mud Out: 16              |                         |                                    |                      |
| 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 type="checkbox"/> YES <input checked="" type="checkbox"/> NO  |                 |                                |                                | Were Returns Planned at Surface: <input checked="" type="checkbox"/> NO <input 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: 20   |                            |                         |                    | 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: 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 HR:MIN.         | PRESSURE - PSI |         | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>    |
|                      | PIPE           | ANNULUS |          |                   |            | TEST LINES 4802 PSI   |
|                      |                |         |          |                   |            | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>                      |
| 13:50                | 0              | 0       | 0        | 0                 | N/A        | Yard call   |
| 15:58                | 0              | 0       | 0        | 0                 | N/A        | Time left district  |
| 17:33                | 0              | 0       | 0        | 0                 | N/A        | Time arrived on location ( 78 Mlles) Rig ready for cement   |
| 17:46                | 0              | 0       | 0        | 0                 | N/A        | Spot trucks   |
| 17:55                | 0              | 0       | 0        | 0                 | N/A        | Pre rig up safety meeting   |
| 19:05                | 0              | 0       | 0        | 0                 | N/A        | Pre job safety meeting  |
| 19:29                | 67             | 0       | 1.6      | 2                 | WATER      | Load lines  |
| 19:30                | 1621           | 0       | 0        | 0                 | WATER      | Low pressure test   |
| 19:31                | 4801           | 0       | 0        | 0                 | WATER      | High pressure test  |
| 19:35                | 902            | 0       | 4.8      | 10                | WATER      | Fresh water spacer  |
| 19:37                | 511            | 0       | 3.1      | 40                | SPACER     | Seal bond spacer + Seal bond plus   |
| 20:10                | 511            | 0       | 5        | 128               | CEMENT     | Batch up, weigh and pump 391 SXS of PLC + 0.25 LBS/Sacck Cello Flake + 0.2% FL-52 + 6% Bentonite @ 12.5 PPG |
| 20:31                | 72             | 0       | 4        | 42                | CEMENT     | Mix and pump 184 SXS of ( 50:50) POZ/G + 0.4% FL-52 + 3% Bentonite + 0.5% SMS @ 13.5 PPG                    |
| 20:43                | 0              | 0       | 0        | 0                 | N/A        | Shut down release plug  |
| 20:47                | 1177           | 0       | 6        | 210               | MUD        | Start dispalcement  |
| 21:24                | 1059           | 0       | 5        | 10                | MUD        | Drop rate   |
| 21:25                | 807            | 0       | 3.2      | 2                 | MUD        | Drop rate due to vac truck not keeping up   |
| 21:27                | 1056           | 0       | 2.5      | 30                | MUD        | Drop rate due to vac truck not keeping up   |
| 21:37                | 2410           | 0       | 2.5      | 242               | MUD        | Bump Plug @ 242 BBLS away on inventory tanks Calculated dispalcement was 246.7                              |
| 21:53                | 0              | 0       | 0        | 0                 | N/A        | Check floats  |
| 21:55                | 0              | 0       | 0        | 0                 | N/A        | Pre rig down safety meeting   |
| 22:45                | 0              | 0       | 0        | 0                 | N/A        | Time off 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 | 1056             | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 0                         | 464               | 0               | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |                               |



**CEMENTING LABORATORY REPORT**  
Lab Report #C09-033-13

|                        |                   |                   |                            |
|------------------------|-------------------|-------------------|----------------------------|
| <b>COMPANY :</b>       | Carrizo Oil & Gas | <b>DATE:</b>      | September 9, 2013          |
| <b>WELL NAME:</b>      | Bailey #5-26-8-60 | <b>LOCATION:</b>  | Weld County, Colorado      |
| <b>DISTRICT:</b>       | Brighton          | <b>TYPE JOB:</b>  | Intermediate Casing Cement |
| <b>API #</b>           | 05-123-37372-0000 | <b>TOC(md):</b>   |                            |
| <b>DEPTH MD(ft):</b>   | 6,393 ft          | <b>BHST(°F):</b>  | 177 °F                     |
| <b>CASING SIZE("):</b> | 7 in              | <b>BHCT(°F):</b>  | 121 °F                     |
| <b>TUBING SIZE("):</b> |                   | <b>BHSqT(°F):</b> | 150 °F                     |
| <b>HOLE SIZE("):</b>   | 8 3/4 in          | <b>TOL (°F):</b>  | Static      Circ           |

**SLURRY DESIGN DATA**

|    |   |
|----|---|
| #1 | Lead Slurry: Premium Lite Cement + 6% Bentonite + 0.2% FL-52 + 0.25 pps Cello Flake |
| #2 | Tail Slurry: 50:50:3 (FA:G:Bentonite) + 0.5% SMS + 0.4% FL-52                       |
| #3 |   |

| SLURRY PROPERTIES          |         | #1     | #2     | #3 |
|----------------------------|---------|--------|--------|----|
| Density : ppg              |         | 12.50  | 13.50  |    |
| Yield :cu.ft./sk.          |         | 1.94   | 1.45   |    |
| Mixing Water: gal/sk.      |         | 10.65  | 7.07   |    |
| Water Type:                |         | Fresh  | Fresh  |    |
| Testing Temperature :      |         | 121 °F | 120 °F |    |
| Thickening Time: hrs:mins. |         | 5:46   | 5:04   |    |
| Free Water: mls.           |         |        |        |    |
| Fluid Loss:ml/30min        |         |        |        |    |
| Compressive Strength:      |         |        |        |    |
|                            | hrs.    |        |        |    |
|                            | hrs.    |        |        |    |
| Rheologies                 | RPM     |        |        |    |
|                            | 300     |        |        |    |
|                            | 200     |        |        |    |
|                            | 100     |        |        |    |
|                            | 6       |        |        |    |
|                            | 3       |        |        |    |
|                            | 600     |        |        |    |
|                            | PV      |        |        |    |
|                            | YP      |        |        |    |
| Gel Strength : #/100sq.ft. | 10 sec. |        |        |    |
|                            | 10 min. |        |        |    |

**REMARKS :**

**COMMENTS :** The above data is supplied solely for informational purposes and BHI makes no guarantees or warranties, either express or implied, with respect to the accuracy or use of this data. All product warranties and guarantees shall be governed by the standard contract terms at the time of sale.

