

CEMENT JOB REPORT



| | | | | | | | | | | | | | | |
|---|----------|--------------------------------------|-------------------------------------|-----------------|-------------------|--|--------------------------------|------------------|---|---------------|----------------|-------------|---------------|-----------|
| CUSTOMER EOG Resources Inc. | | | DATE 23-APR-11 | | F.R. # 1001793695 | | SERV. SUPV. JEFFREY A ANDERSON | | | | | | | |
| LEASE & WELL NAME GARDEN CREEK #12-19H - API 05123328560000 | | | LOCATION 19-11N-62W | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | | | |
| DISTRICT Brighton | | | DRILLING CONTRACTOR RIG # SST-56 | | | TYPE OF JOB Liner | | | | | | | | |
| SIZE & TYPE OF PLUGS | | | LIST-CSG-HARDWARE | | | PHYSICAL SLURRY PROPERTIES | | | | | | | | |
| Dart For Plug Catcher, 4-1/2 In | | Float Collar, Auto Fill, 4-1/2 - 8rd | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT ³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | | | | |
| Cement Plug, Rubber, Bottom 4-1/2 i | | Float Shoe 4-1/2 - 8rd | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | | | | | | | | | | | | |
| Premium Lite High Strength D+ adds | | | | 321 | 13 | 1.82 | 9.20 | 03:26 | 104.1 | 70.36 | | | | |
| 10 bbls sugar+alpha then 136 bbls 1.2 gpt Alpha-12 | | | | 0 | 8.34 | 0 | 0 | 00:00 | 140.3 | — | | | | |
| Ultra Flush II + Alpha-125 | | | | 0 | 9.5 | 0 | 0 | 00:00 | 40 | — | | | | |
| Fresh Water + Inflo-250W +Alpha | | | | 0 | 8.34 | 0 | 0 | 00:00 | 10 | — | | | | |
| Fresh Water + Inflo-250W + Alpha | | | | 0 | 8.34 | 0 | 0 | 00:00 | 10 | — | | | | |
| Available Mix Water 400 Bbl. | | | Available Displ. Fluid 400 Bbl. | | | TOTAL | | | 304.4 | 70.36 | | | | |
| HOLE | | | TBG-CSG-D.P. | | | | COLLAR DEPTHS | | | | | | | |
| SIZE | % EXCESS | DEPTH | SIZE | WGT. | TYPE | DEPTH | GRADE | SHOE | FLOAT | STAGE | | | | |
| 6 | 0 | 11376 | 4.5 | 11.6 | CSG | 11372 | P-110 | — | — | — | | | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | | | |
| SIZE | WGT | TYPE | DEPTH | BRAND & TYPE | | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. | | |
| 7 | 23 | CSG | 7633 | Liner | | 11372 | 0 | 0 | 2 | 1502 | WATER BASED MU | 9.3 | | |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | | CAL. MAX PSI | | OP. MAX | | MAX TBG PSI | | MAX CSG PSI | | MIX WATER |
| VOLUME | UOM | TYPE | | WGT. | BUMP PLUG | TO REV. | | SQ. PSI | RATED | Operator | RATED | Operator | | |
| 140.3 | BBLs | 10 bbls sugar+alpha t | | 8.34 | 1137 | 0 | | 0 | 0 | 0 | 8552 | 3000 | Upright tanks | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | | | Circulation Time: 3 | | | Circulation Rate: 3 BPM | | | | | |
| Mud Density In: 9.3 LBS/GAL Mud Density Out: 9.3 LBS/GAL | | | | | | PV & YP Mud In: 14 | | | PV & YP Mud Out: 14 | | | | | |
| 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"/> | | | | | |
| Displacement And Mud Removal | | | | | | | | | | | | | | |
| 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: Visually | | | | | | | | |
| 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"/> RECIPROICATION <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | |
| Centralizers: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | | | Quantity: — | | | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input type="checkbox"/> MANIFOLD <input checked="" type="checkbox"/> NO MANIFOLD | | | | | | | | | | | | | | |
| Plugs | | | | | | | | | | | | | | |
| 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 | | | | | |
| Squeezes (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| BLOCK SQUEEZE <input type="checkbox"/> SHOE SQUEEZE <input type="checkbox"/> TOP OF LINER SQUEEZE <input type="checkbox"/> PLANNED <input type="checkbox"/> UNPLANNED <input checked="" 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 | | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| Casing Test Pressure: 2000 PSI With 8.34 LBS/GAL Mud | | | | | | Time Held: 00 Hours 05 Minutes | | | | | | | | |
| 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 | | | | | | | | |

CEMENT JOB REPORT



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

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | | | |
|----------------------|----------------|---------|----------|-------------------|------------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW | | CO. REP. | |
| | PIPE | ANNULUS | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | TEST LINES 5001 PSI | | | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | |
| 10:30 | 0 | 0 | 0 | 0 | N/A | Pre-rig up safety meeting | | | |
| 16:30 | 0 | 0 | 0 | 0 | N/A | Pre-job safety meeting | | | |
| 17:41 | 5001 | 0 | 0 | 0 | N/A | Pressure test C990 | | | |
| 17:50 | 625 | 0 | 3 | 72 | MUD | Set liner hanger | | | |
| 18:18 | 3160 | 0 | 0 | 0 | MUD | Shear pins | | | |
| 19:15 | 862 | 0 | 3 | 600 | MUD | Circulate well 2x bottoms up | | | |
| 22:15 | 0 | 0 | 0 | 0 | N/A | Pre-job safety meeting | | | |
| 22:35 | 768 | 0 | 3 | 10 | WATER | Freshwater spacer + Biocide | | | |
| 22:40 | 742 | 0 | 2.9 | 40 | ULTRA-FL | Ultra-flush II spacer + Biocide | | | |
| 22:55 | 500 | 0 | 2.4 | 10 | WATER | Freshwater spacer + Biocide | | | |
| 23:00 | 2006 | 0 | 4.4 | 103.6 | CEMENT | Batch-up & pump 321 sx of Premium Lite High Strength D + 0.4% R-3 + 2.4% FL-62 + 0.4% ASA-301 + 0.5% SMS @ 13 ppg | | | |
| 23:30 | 0 | 0 | 0 | 0 | N/A | Drop plug & wash-up pumps & lines | | | |
| 23:42 | 72 | 0 | 4.8 | 33 | WATER | Displace | | | |
| 23:50 | 1116 | 0 | 4.8 | 17 | WATER | Caught cement | | | |
| 23:55 | 249 | 0 | 1.1 | 10 | WATER | Slow rate | | | |
| 00:03 | 976 | 0 | 1.1 | 4 | WATER | Release bottom plug | | | |
| 00:06 | 1583 | 0 | 3.8 | 60 | WATER | Rate change | | | |
| 00:23 | 884 | 0 | 1.2 | 5 | WATER | Rate change | | | |
| 00:27 | 1853 | 0 | 1.2 | 130 | WATER | Bump plug | | | |
| 00:27 | 888 | 0 | 1.2 | 6 | WATER | Wet shoe track | | | |
| 00:47 | 2104 | 0 | 0 | 0 | WATER | Casing test for 5 minutes | | | |

| | | | | | | | | | | | | | | |
|-------------|--|------------------|------|-------------------|--|---------------------------|----|-------------------|-------|-----------------|---|---------------------|--|-------------------------------|
| BUMPED PLUG | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | PSI TO BUMP PLUG | 1853 | TEST FLOAT EQUIP. | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | BBL.CMT RETURNS/ REVERSED | 34 | TOTAL BBL. PUMPED | 971.6 | PSI LEFT ON CSG | 0 | SPOT TOP OUT CEMENT | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | Service Supervisor Signature: |
|-------------|--|------------------|------|-------------------|--|---------------------------|----|-------------------|-------|-----------------|---|---------------------|--|-------------------------------|

Jeff Anderson

J.S.



BJ Services JobMaster Program Version 3.50

Job Number: 1001793695

Customer: EOG

Well Name: Garden Creek 12-19H





BJ Services JobMaster Program Version 3.50

Job Number: 1001793695

Customer: EOG

Well Name: Garden Creek 12-19H



