

CEMENT JOB REPORT



| | | | | | | | | | | | | |
|--|-----------------|--------------------------------------|---|---|---------------------------|--|------------------------------------|----------------------------------|---|-------------------------|-------------------|----------------------|
| CUSTOMER WHITING OIL & GAS CORP XM | | | DATE 22-JAN-14 | | F.R. # 10011040198 | | SERV. SUPV. JASON L SJOBERG | | | | | |
| LEASE & WELL NAME RAZOR #21C-2808B - API 05123378380000 | | | LOCATION 21-10N-58W | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | |
| DISTRICT Brighton | | | DRILLING CONTRACTOR RIG # CADE 21 | | | TYPE OF JOB Liner | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | |
| Dart For Plug Catcher, 4-1/2 In | | Guide Shoe, Cement Nose, 4-1/2 i | | Liner Packer | | 5232 | 5232 | Liner | | 5232 | 5232 | |
| | | Float Collar, Auto Fill, 4-1/2 - 8rd | | | | | | | | | | |
| | | Centralizer, with Pins, 4-1/2 in | | | | | | | | | | |
| PHYSICAL SLURRY PROPERTIES | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | | LAB REPORT NO. | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
| 50:50 + Adds | | | | | | 524 | 14.5 | 1.44 | 6.20 | | 134.30 | 77.34 |
| Fresh Water | | | | | | 0 | 8.34 | 0 | 0 | | 149 | |
| Ultraflush II | | | | | | 0 | 12 | 0 | 0 | | 20 | |
| Fresh Water | | | | | | 0 | 8.34 | 0 | 0 | | 10 | |
| Available Mix Water 450 Bbl. | | | | Available Displ. Fluid 450 Bbl. | | | | TOTAL | | 313.30 | | 77.34 |
| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE |
| 6 | 0 | 12826 | 4 | 4.5 | 11.6 | CSG | 12811 | 12811 | P-110 | 12811 | 12716 | 0 |
| | | | | 3.34 | 4 | 14 DP | 316 | 316 | S-135 | | | |
| | | | | 2.58 | 4 | 28 DP | 3594 | 3594 | S-135 | | | |
| | | | | 2.25 | 4.75 | 53 DP | 1325 | 1325 | S-135 | | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | |
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | DEPTH | TOP | BTM | SIZE | THREAD | WGT. |
| 6.2 | 7 | 29 | CSG | 6203 | 6203 | Liner | 5232 | 0 | 0 | 4 | XT39 | 12 |
| 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 | | |
| 174.7 | BBLs | Fresh Water | 8.34 | 530 | 0 | 0 | 0 | 0 | 8552 | 5000 | rig | |
| Circulation Prior to Job | | | | | | | | | | | | |
| Circulated Well: RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | | | Circulation Time: 1 | | | Circulation Rate: 3 BPM | | | |
| Mud Density In: 12 LBS/GAL Mud Density Out: 12 LBS/GAL | | | | | | PV & YP Mud In: 0 | | | PV & YP Mud Out: 0 | | | |
| 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: 1 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 type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | | | Quantity: 80 | | | 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 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 | | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None | | | | | | | | | | | | |

CEMENT JOB REPORT



Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: 2472 PSI With 12 LBS/GAL Mud Time Held: 00 Hours 10 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

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 | 5653 PSI |
| | | | | | | CIRCULATING WELL - RIG | <input type="checkbox"/> BJ <input checked="" type="checkbox"/> |
| 00:00 | 0 | 0 | 0 | 0 | N/A | Yard Call | |
| 03:35 | 0 | 0 | 0 | 0 | N/A | Leave Yard | |
| 05:53 | 0 | 0 | 0 | 0 | N/A | Arrive on Location | |
| 01:40 | 0 | 0 | 0 | 0 | N/A | Spot Trucks/Pre Rig-up Safety Meeting | |
| 03:30 | 0 | 0 | 0 | 0 | N/A | Safety Meeting | |
| 04:26 | 5653 | 0 | 0 | 0 | H2O | Pressure Test Pump and Lines | |
| 04:54 | 690 | 0 | 3.4 | 85 | MUD | Pump Ball Down | |
| 05:21 | 1179 | 0 | 3.9 | 51 | MUD | Increase Rate | |
| 05:34 | 1500 | 0 | 0 | 136 | N/A | Seat Ball | |
| 05:36 | 1900 | 0 | 0 | 0 | MUD | Pressure Up | |
| 05:42 | 2200 | 0 | 0 | 0 | MUD | Pressure Up | |
| 05:45 | 1846 | 0 | 0 | 0 | N/A | Bleed Off Pressure | |
| 05:46 | 1887 | 0 | 0 | 0 | N/A | Set Hanger | |
| 05:49 | 2980 | 0 | 3 | .5 | MUD | Blow Ball Seat | |
| 05:52 | 733 | 0 | 3.5 | 14 | MUD | Pump Access Mud from pump downhole | |
| 05:58 | 0 | 0 | 0 | 0 | N/A | Release from hanger | |
| 06:10 | 900 | 0 | 4 | 10 | H2O | Preflush Fresh Water | |
| 06:14 | 904 | 0 | 3.4 | 20 | H2O | Preflush Ultra Flush II | |
| 06:25 | 1121 | 0 | 4.1 | 130 | CMT | Batch, Weigh, Pump 14.5# 50:50 Poz G + .6% FL-52 + 3% Bentonite + 20% Silica Flour + .2% BA-59 + .25% R-3 + .2% FL-63 | |
| 07:20 | 0 | 0 | 0 | 0 | N/A | Drop Plug | |
| 07:26 | 63 | 0 | 3.6 | 23 | H2O | Displacement KCL Water | |
| 07:34 | 70 | 0 | 2 | 12 | H2O | Drop Rate | |
| 07:42 | 1327 | 0 | 2 | 35 | H2O | Dart Pick up Wiper Plug @ 35 bbls | |
| 07:43 | 1323 | 0 | 4.6 | 104 | H2O | Increase Rate | |
| 08:06 | 1045 | 0 | 2 | 10 | H2O | Drop Rate | |
| 08:14 | 1099 | 0 | 2 | 149 | H2O | Bump Plug | |
| 08:26 | 0 | 0 | 0 | 0 | N/A | Check Floats | |
| 08:31 | 0 | 0 | 0 | 0 | N/A | Sting out and stomp packer (tool not setting right) | |
| 08:44 | 1718 | 0 | 6 | 57 | H2O | Roll Hole | |
| 08:56 | 539 | 0 | 0 | 0 | N/A | Shut down and try to set packer again (Successful) | |
| 08:59 | 1693 | 0 | 6 | 73 | H2O | Continue to roll hole | |
| 09:30 | 0 | 700 | 0 | 0 | H2O | Backside Pressure Test | |
| 09:31 | 0 | 0 | 0 | 0 | N/A | Shut down (Check valve on rig is leaking) | |
| 09:38 | 0 | 2472 | 0 | 0 | H2O | Backside Pressure Test | |
| 09:51 | 0 | 0 | 0 | 0 | N/A | Test Good, Bleed Off | |

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| 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 | 5653 PSI |
| | | | | | | CIRCULATING WELL - RIG | BJ <input checked="" type="checkbox"/> |
| 09:55 | 0 | 0 | 0 | 0 | N/A | Post Job Safety Meeting | |
| 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 | 1099 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 2 | 649 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |