

CEMENT JOB REPORT



| | | | | | | | | | | | | | | |
|--|-----------------|--------------------------------------|--|--|----------------------------|-------------------------|-----------------------------------|---|-----------------------|----------------------------------|------------------|-------------------------|-------------------|----------------------|
| CUSTOMER WHITING OIL & GAS CORP XM | | | DATE 25-MAY-16 | | F.R. # 10011198936 | | | SERV. SUPV. JASON L SJOBERG | | | | | | |
| LEASE & WELL NAME HORSETAIL #07H-1847 - API 05123418300000 | | | | LOCATION | | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | |
| DISTRICT Brighton | | | DRILLING CONTRACTOR RIG # UNIT 406 | | | | TYPE OF JOB Long String | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | | MD | TVD | HANGER TYPES | | MD | TVD | |
| 5-1/2" Top Cem Plug, Nitrile cvr, Phe | | Float Collar, Auto Fill, 5-1/2 - 8rd | | | | | | | | | | | | |
| Cement Plug, Rubber, Bottom 5-1/2 | | Float Shoe 5-1/2 - 8rd | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | | LAB REPORT NO. | | | | PHYSICAL SLURRY PROPERTIES | | | | | | |
| | | | | | | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
| Ultra Flush HV Spacer System | | | | | | | | 0 | 11 | 5.18 | 34.93 | | 50 | 45.07 |
| Premium Lite High Strength RM | | | | | | | | 100 | 11.5 | 2.81 | 16.50 | 06:18 | 49.96 | 39.28 |
| Premium Lite High Strength RM + Adds | | | | | | | | 699 | 13 | 1.90 | 9.74 | 06:18 | 236.81 | 162.18 |
| (50:50) Poz:Class G Cement + Adds | | | | | | | | 1,716 | 14 | 1.40 | 6.33 | 04:33 | 427.74 | 258.68 |
| FW + FC1000 + X-cide 725 + Corrhob 132 + FP-13L | | | | | | | | | 8.34 | | | | 311 | |
| Available Mix Water 900 Bbl. | | | Available Displ. Fluid 900 Bbl. | | | TOTAL | | | 1075.51 | | 505.22 | | | |
| HOLE | | | TBG-CSG-D.P. | | | | | | | COLLAR DEPTHS | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 8.5 | 15 | 14095 | 4.778 | 5.5 | 20 | CSG | 14093 | 5955 | P-110 | 14093 | 14046 | 1 | | |
| 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 | TYPE | WGT. | |
| 8.9 | 9.63 | 36 | CSG | 2050 | 2050 | No Packer | 0 | 0 | 0 | 5.5 | BUTT | WATER BASED | | |
| 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 | | | | |
| 311 | BBLS | FW + FC1000 + X-cid | 8.34 | 1514 | 0 | 0 | 0 | 0 | 10112 | 3000 | Tanks | | | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: 1 | | | | Circulation Rate: 10 BPM | | | | | | |
| Mud Density In: LBS/GAL | | | | Mud Density Out: LBS/GAL | | | | PV & YP Mud In: | | | PV & YP Mud Out: | | | |
| 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: 3 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"/> RECIPROICATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE | | | | | | | | | | | | | | |
| Centralizers: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES | | | | Quantity: 137 | | | | 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 | | | | | | |
| Casing Test (Update Original Treatment Report for Primary Job) | | | | | | | | | | | | | | |
| Casing Test Pressure: 0 PSI With 0 LBS/GAL Mud Time Held: 00 Hours 00 Minutes | | | | | | | | | | | | | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: 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)
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 5313 PSI | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 05:00 | 0 | 0 | 0 | 0 | N/A | Yard call | |
| 08:30 | 0 | 0 | 0 | 0 | N/A | Leave yard | |
| 11:00 | 0 | 0 | 0 | 0 | N/A | Arrive on location | |
| 11:10 | 0 | 0 | 0 | 0 | N/A | Spot trucks/pre rig-up safety meeting | |
| 12:00 | 0 | 0 | 0 | 0 | N/A | Rig running casing | |
| 17:15 | 0 | 0 | 0 | 0 | N/A | Done with casing/rig down casers/continue rig up | |
| 18:15 | 0 | 0 | 0 | 0 | N/A | Rig circulating and rotating. 10 bbls/min | |
| 19:00 | 0 | 0 | 0 | 0 | N/A | Safety meeting | |
| 19:41 | 5313 | 0 | 0 | 0 | H2O | Pressure test pump and lines | |
| 19:48 | 1520 | 0 | 7.3 | 50 | H2O | Drop bottom plug and pump preflush ultraflush II (rotating) | |
| 20:02 | 1436 | 0 | 6.3 | 47 | CMT | Batch, weigh, pump 100 sks 11.5# PLHS RM + .4% R-3 + .6% FL-63 + .4% FL-52 + .2% ASA-301 (rotating) | |
| 20:20 | 1046 | 0 | 10 | 233 | CMT | Pump 699 sks 13# PLHS RM + .4% R-3 + .6% FL-63 + .4% FL-52 + .2% ASA-301 (rotating) | |
| 20:45 | 653 | 0 | 10 | 422 | CMT | Pump 1716 sks 14# 50:50:Poz G + 1% FL-63 + .2% ASA-301 + 7 lbs/sack CSE-2 + 2% Bentonite (rotating till 330 bbls away, stopped rotating, started reciprocating) | |
| 21:38 | 0 | 0 | 0 | 0 | N/A | Washup | |
| 21:50 | 2401 | 0 | 14.5 | 112 | H2O | Drop plug and displace (first 10 bbls sugar water) | |
| 22:00 | 2435 | 0 | 11.3 | 138 | H2O | Drop rate | |
| 22:13 | 2179 | 0 | 7.2 | 40 | H2O | Drop rate | |
| 22:20 | 2166 | 0 | 5 | 10 | H2O | Drop rate | |
| 22:21 | 1744 | 0 | 2 | 11 | H2O | Drop rate | |
| 22:27 | 1815 | 0 | 2 | 311 | H2O | Bump plug | |
| 22:30 | 2828 | 0 | 0 | 0 | N/A | Check floats | |
| 22:40 | 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 | 1815 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 86 | 1063 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |

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