

CEMENT JOB REPORT



| CUSTOMER EXTRACTION OIL AND GAS | | | DATE 12-AUG-15 | | F.R. # 10011171097 | | SERV. SUPV. FELIPE LANDA | | | | | | | |
|---|----------|---------------------------------|--------------------------------------|--|---------------------|--------------------------------------|--------------------------|---|---------------|-------------------------|------------------|----------------------------------|------------------------------------|------|
| LEASE & WELL NAME WAAG #8 - API 05123403570000 | | | LOCATION 19-7N-65W | | | COUNTY-PARISH-BLOCK Weld Colorado | | | | | | | | |
| DISTRICT Brighton | | | DRILLING CONTRACTOR RIG # H&P 319 | | | TYPE OF JOB Intermediate | | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | | |
| Cement Plug, Rubber, Top 7 in | | Cement Basket, Slip On, 7 in | | | | | | | | | | | | |
| | | Centralizer, with Pins, 7 in | | | | | | | | | | | | |
| | | Float Collar, Dif Fill, 7 - 8rd | | | | | | | | | | | | |
| | | Float Shoe 7 - 8rd | | | | | | | | | | | | |
| PHYSICAL SLURRY PROPERTIES | | | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | | LAB REPORT NO. | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT ³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | | |
| Fresh Water | | | | | | | 8.34 | | | | 20 | | | |
| Lead Slurry | | | | | | 478 | 12.7 | 1.86 | 9.98 | | 158.06 | 113.56 | | |
| Fresh Water | | | | | | | 8.34 | | | | 292.6 | | | |
| UltraFlush II | | | | | | | 11.5 | | | | 20 | | | |
| Tail Slurry | | | | | | 349 | 13.8 | 1.47 | 6.78 | | 91.24 | 56.32 | | |
| Available Mix Water 500 Bbl. | | | | Available Displ. Fluid 500 Bbl. | | | | | TOTAL | | 581.90 | 169.88 | | |
| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 8.75 | 25 | 7705 | 6.276 | 7 | 26 | CSG | 7690 | 7100 | | 7690 | 7648 | 0 | | |
| 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 | 910 | | NO PACKER | | 0 | 0 | 0 | 7 | 8RD | WATER BASED | 10.3 |
| 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 | | | | |
| 292.6 | BBLS | Fresh Water | 8.34 | 1143 | 0 | 0 | 0 | 0 | 9960 | 7968 | TANK | | | |
| Circulation Prior to Job | | | | | | | | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: 1 | | | | Circulation Rate: 5 BPM | | | | | | |
| Mud Density In: 10.3 LBS/G | | | | Mud Density Out: 10.3 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: 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: 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 | | | | | | | | | | | | | | |
| 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 | | | | | | |

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)
DID NOT BUMP PLUG, OVER DISPLACED 6 BBLs PER COMPANY MAN

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

| 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 | 4950 PSI |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 11:30 | 0 | 0 | 0 | 0 | NA | ARRIVE ON LOCATION (rig running casing) | |
| 11:45 | 0 | 0 | 0 | 0 | NA | SPOT TRUCKS/PRE RIG UP SAFETY MEETING | |
| 14:34 | 0 | 0 | 0 | 0 | NA | PRE JOB SAFETY MEETING | |
| 14:54 | | 0 | .8 | 1 | H2O | LOAD LINES | |
| 14:56 | 4950 | 0 | 0 | 0 | H2O | PRESSURE TEST | |
| 15:03 | 404 | 0 | 6.3 | 20 | H2O | FRESH WATER | |
| 15:09 | 465 | 0 | 4 | 20 | H2O | ULTRAFLUSH II @ 11.5 PPG | |
| 15:22 | 510 | 0 | 6.1 | 158 | LEAD | 478 SACKS OF PREMIUM LITE CEMENT + 0.1% R-3 + 0.7% FL-52 + 0.2% ASA-301 + 0.01 gps FP-6L + 6% BENTONITE II @ 12.7 PPG | |
| 15:50 | 220 | 0 | 5.6 | 87 | TAIL | 349 SACKS OF 50:50 POZ (FLY ASH) : CLASS "G" CEMENT + 0.1% R-3 + 0.6% FL-63 + 0.2% ASA-301+ 0.01 gps FP-6L + 0.2% SODIUM METASILICATE + 10 lbs/sack CSE-2 @ 13.8 PPG | |
| 16:25 | 0 | 0 | 0 | 0 | NA | DROP PLUG | |
| 16:26 | 140 | 0 | 6.4 | 230 | MUD | DISPLACE | |
| 17:09 | 1043 | 0 | 5.5 | 30 | MUD | RATE CHANGE | |
| 17:16 | 1260 | 0 | 4 | 20 | MUD | RATE CHANGE | |
| 17:21 | 1285 | 0 | 2.5 | 18 | MUD | RATE CHANGE | |
| 17:29 | 1208 | 0 | 2.5 | 0 | MUD | SHUT DOWN @ 298 BBLs DID NOT BUMP PLUG (pumped extra 6 bbls per company man) | |
| 17:33 | 0 | 0 | 0 | 0 | MUD | CHECK FLOATS (1 BBLs CEMENT TO SURFACE) | |
| 17:45 | 0 | 0 | 0 | 0 | NA | POST JOB RIG DOWN 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: |
| Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | 0 | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | 1 | 581 | 0 | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |