

CEMENT JOB REPORT



| | | | | | | | |
|---|-----------------|---|-------------|---|-----------------------|----------------------------------|--------------------|
| CUSTOMER EXTRACTION OIL AND GAS | | DATE 30-MAY-15 | | F.R. # 10011156707 | | SERV. SUPV. TIMADAMS | |
| LEASE & WELL NAME WAAG #9 - API 05123403530000 | | LOCATION 19-7N-65W | | COUNTY-PARISH-BLOCK Weld Colorado | | | |
| DISTRICT Brighton | | DRILLING CONTRACTOR RIG # | | TYPE OF JOB Surface | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | MECHANICAL BARRIERS | | MD | TVD |
| 9-5/8" Top Cem Plug, Nitrile cvr, Phe | | Float Shoe 9-5/8 - 8rd | | None | | 0 | 0 |
| | | Float Collar, Auto Fill, 9-5/8 - 8rd | | | | | |
| MATERIALS FURNISHED BY BJ | | LAB REPORT NO. | | PHYSICAL SLURRY PROPERTIES | | | |
| | | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS |
| Fresh Water + Dye | | N/A | | 0 | 8.34 | 0 | 0 |
| Surface Cement | | C05-062-15 | | 367 | 14.5 | 1.41 | 6.82 |
| Fresh Water | | N/A | | 0 | 8.34 | 0 | 0 |
| Available Mix Water 240 Bbl. | | Available Displ. Fluid 165 Bbl. | | TOTAL | | 167.91 | 59.59 |
| HOLE | | TBG-CSG-D.P. | | | | COLLAR DEPTHS | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD |
| 13.5 | 20 | 895 | 8.921 | 9.625 | 36 | CSG | 895 |
| | | | | | | GRADE | SHOE |
| | | | | | | J-55 | 895 |
| | | | | | | TVD | STAGE |
| | | | | | | 895 | 0 |
| LAST CASING | | PKR-CMT RET-BR PL-LINER | | PERF. DEPTH | | TOP CONN | |
| ID | OD | WGT | TYPE | MD | TVD | SIZE | THREAD |
| | | | | | | 9.625 | 8RND |
| | | No packer | | 0 | | WATER BASED | |
| | | | | | | WELL FLUID | WGT. |
| | | | | | | | 8.4 |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI |
| VOLUME | UOM | TYPE | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED |
| 66 | BBLS | Fresh Water | 8.34 | 273 | 0 | 0 | 0 |
| | | | | | | Operator | MAX CSG PSI |
| | | | | | | | RATED |
| | | | | | | | Operator |
| | | | | | | | 2816 |
| | | | | | | | 2000 |
| | | | | | | | Water tank |
| Circulation Prior to Job | | | | | | | |
| Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | | | | Circulation Time: .5 | | | |
| Mud Density In: 8.4 LBS/GAL | | | | Mud Density Out: 8.4 LBS/GAL | | | |
| Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> | | | | 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: .25 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"/> 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: 6 | | | |
| Job Pumped Through: <input type="checkbox"/> CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD | | | | Type: <input type="checkbox"/> BOW <input type="checkbox"/> RIGID | | | |
| Plugs | | | | | | | |
| Number of Attempts by BJ: 0 | | | | Competition: 0 | | | |
| Plug Catcher Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Wiper Balls Used: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | |
| Was There a Bottom: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES | | | | Parabow Used: <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: 1498 PSI | | | | With 8.34 LBS/GAL Mud | | | |
| | | | | Time Held: 00 Hours 20 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 | | | |

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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 CEMENTINGNone

| 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 | 3258 PSI |
| | | | | | | CIRCULATING WELL - RIG | <input checked="" type="checkbox"/> BJ <input type="checkbox"/> |
| 08:00 | 0 | 0 | 0 | 0 | NA | Yard Call | |
| 10:10 | 0 | 0 | 0 | 0 | NA | Leave yard | |
| 11:15 | 0 | 0 | 0 | 0 | NA | Arrive on location (44 miles, rig running casing) | |
| 11:55 | 0 | 0 | 0 | 0 | NA | Spot trucks | |
| 12:00 | 0 | 0 | 0 | 0 | NA | Rig-up safety meeting | |
| 12:35 | 0 | 0 | 0 | 0 | NA | Pre-job safety meeting | |
| 12:54 | 0 | 0 | 1 | 2 | H2O | Load lines | |
| 12:57 | 3258 | 0 | 0 | 0 | H2O | Pressure test | |
| 13:02 | 49 | 0 | 4.8 | 10 | H2O | Fresh spacer (with dye) | |
| 13:10 | 0 | 0 | 0 | 0 | CMT | Batch up cement | |
| 13:14 | 173 | 0 | 4.7 | 96 | CMT | Pump cement (14.5ppg, 390sx) | |
| 13:44 | 0 | 0 | 0 | 0 | NA | Shut down / drop plug | |
| 13:49 | 423 | 0 | 4.8 | 60 | H2O | Displacement | |
| 14:02 | 373 | 0 | 3 | 6 | H2O | Drop rate | |
| 14:04 | 1148 | 0 | 0 | 0 | H2O | Bump plug (66bbls total pumped) | |
| 14:07 | 0 | 0 | 0 | 0 | NA | Check floats (0.25bbls back) | |
| 14:10 | 1498 | 0 | 0 | 0 | H2O | Casing test | |
| 14:30 | 0 | 0 | 0 | 0 | NA | Bleed off / done (1498psi before bleeding off pressure) | |

| | | | | | | | |
|--|-------------------------------|---|---------------------------------------|--------------------------------|----------------------------|---|-------------------------------|
| BUMPED PLUG <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | PSI TO BUMP PLUG 373 | TEST FLOAT EQUIP. <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | BBL.CMT RETURNS/ REVERSED 16 | TOTAL BBL. PUMPED 174 | PSI LEFT ON CSG 0 | SPOT TOP OUT CEMENT Y <input type="checkbox"/> N | Service Supervisor Signature: |
|--|-------------------------------|---|---------------------------------------|--------------------------------|----------------------------|---|-------------------------------|