

CEMENT JOB REPORT



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 <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES | |
| | | | | | | CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/> | |
| 07:12 | 0 | 0 | 0 | 0 | N/A | PRE-RIG UP SAFETY MEETING | |
| 08:09 | 0 | 0 | 0 | 0 | N/A | SAFETY MEETING | |
| 08:25 | 4600 | 0 | 0 | 0 | WATER | PRESSURE TEST | |
| 08:44 | 2174 | 0 | 2 | 10 | WATER | FRESH WATER SPACER | |
| 08:50 | 2452 | 0 | 2 | 127 | CMT | BATCH UP, WEIGH AND PUMP 230 SX OF PLC + 4 % BENTONITE + 0.6% SMS + 8 LBS/SACK CSE-2 @ 11.00 PPG | |
| 09:46 | 2937 | 0 | 2 | 2 | WATER | DISPLACEMENT | |
| 09:48 | 0 | 0 | 0 | 0 | N/A | SWITCH OVER TO PULL TUBING | |
| 10:23 | 2937 | 0 | 2.1 | 35 | CMT | BATCH UP AND PUMP 230 SX OF PLC + 4% BENTONITE + 0.6% SMS + 8 LBS/SACK CSE-2 @ 11.00 PPG | |
| 10:46 | 0 | 0 | 0 | 0 | N/A | SWITCH OVER TO PULL TUBING | |
| 10:47 | 0 | 0 | 0 | 0 | N/A | JOB DONE | |
| 10:47 | 0 | 0 | 0 | 0 | N/A | PRE-RIG DOWN MEETING | |
| BUMPED PLUG Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | PSI TO BUMP PLUG 0 | TEST FLOAT EQUIP. Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | BBL.CMT RETURNS/ REVERSED 0 | TOTAL BBL. PUMPED 174 | PSI LEFT ON CSG 0 | SPOT TOP OUT CEMENT Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | Service Supervisor Signature: |

CEMENT JOB REPORT



| | | | | | | | |
|--|--|---------------------------------------|-------------------|--------------------------------------|--|--|--|
| CUSTOMER Petroleum Development Corp O | | DATE 08-DEC-10 | F.R. # 1001730311 | SERV. SUPV. BARLEN M JOYNER | | | |
| LEASE & WELL NAME MARCY #31-32 - API 05123199310000 | | LOCATION 31-6N-64W | | COUNTY-PARISH-BLOCK Weld Colorado | | | |
| DISTRICT Brighton | | DRILLING CONTRACTOR RIG # Workover | | TYPE OF JOB Long String | | | |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE | PHYSICAL SLURRY PROPERTIES | | | | | | |
|--|-------------------|----------------------------|----------------|----------------------------|-----------|------------------|------------|---------------|
| | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT ³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
| MATERIALS FURNISHED BY BJ | | | | | | | | |
| Fresh Water | | 0 | 8.34 | 0 | 0 | 00:00 | 10 | |
| Premium Lite Cement + Adds | | 301 | 11 | 3.22 | 19.86 | 00:00 | 172.6 | 142.48 |
| Fresh Water | | 0 | 8.34 | 0 | 0 | 00:00 | 2 | |
| Available Mix Water 390 Bbl. Available Displ. Fluid 160 Bbl. | | | | | | | TOTAL | 184.6 142.48 |

| HOLE | | | TBG-CSG-D.P. | | | | COLLAR DEPTHS | | | |
|------|----------|-------|--------------|------|------|-------|---------------|------|-------|-------|
| SIZE | % EXCESS | DEPTH | SIZE | WGT. | TYPE | DEPTH | GRADE | SHOE | FLOAT | STAGE |
| 10 | 0 | 3502 | 4.5 | 11.6 | CSG | 3502 | | | | 0 |

| 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. |
| 8.625 | 24 | CSG | 438 | NO LINER | 0 | 0 | 0 | 1.25 | 8RD | 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 | |
| 2 | BBLs | Fresh Water | 8.34 | 0 | 0 | 0 | 7784 | 3500 | 0 | 0 | FRAC TANK |

Circulation Prior to Job

Circulated Well: Rig ☒ BJ ☐ Circulation Time: 1.1 Circulation Rate: 5.1 BPM

Mud Density In: 9.3 LBS/GAL Mud Density Out: 9.3 LBS/GAL PV & YP Mud In: 0 PV & YP Mud Out: 0

Gas Present: NO ☒ YES ☐ Units: Solids Present at End of Circulation: NO ☒ YES ☐

Displacement And Mud Removal

Displaced By: Rig ☐ BJ ☒ Amount Bled Back After Job: .5 BBLs

Returns During Job: ☐ NONE ☐ PARTIAL ☒ FULL Method Used to Verify Returns: VISUAL

Cement Returns at Surface: ☐ YES ☒ NO Were Returns Planned at Surface: ☒ NO ☐ YES

Pipe Movement: ☐ ROTATION ☒ RECIPROCATION ☒ NONE ☐ UNABLE DUE TO STUCK PIPE

Centralizers: ☒ NO ☐ YES Quantity: Type: ☐ BOW ☐ RIGID

Job Pumped Through: ☐ CHOKE MANIFOLD ☐ SQUEEZE MANIFOLD ☐ MANIFOLD ☒ NO MANIFOLD

Plugs

Number of Attempts by BJ: 0 Competition: 0 Wiper Balls Used: ☒ NO ☐ YES Quantity:

Plug Catcher Used: ☒ NO ☐ YES Parabow Used: ☒ NO ☐ YES

Was There a Bottom: ☒ NO ☐ YES Top of Plug: 0 FT Bottom of Plug: 0 FT

Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE ☐ SHOE SQUEEZE ☐ TOP OF LINER SQUEEZE ☐ PLANNED ☐ UNPLANNED ☒

Liner Packer: ☒ NO ☐ YES Bond Log: ☒ NO ☐ 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

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