# CEMENT JOB REPORT

| | | | |
|---|---|---|---|
| CUSTOMER: Carrizo Oil & Gas | DATE: 07-MAY-11 | F.R. #: 1001798829 | SERV. SUPV.: RYAN SULLIVAN |
| LEASE & WELL NAME: ORLANDO HILL #26-44-8-61 - API 05123323170000 | LOCATION: 26-8N-61W | | COUNTY-PARISH-BLOCK: Weld Colorado |
| DISTRICT: Brighton | DRILLING CONTRACTOR RIG #: Cade #22 | | TYPE OF JOB: Surface |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE |
|---|---|
| Cement Plug, Rubber, Top 9-5/8 in | Centralizer, with Pins, 9-5/8 in |
| — | Guide Shoe/Dn Jets 9-5/8 - 8rd |

| MATERIALS FURNISHED BY BJ | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
|---|---|---|---|---|---|---|---|
| Fresh Water + 2 lbs Red Dye | 0 | 8.34 | 0 | 0 | 00:00 | 15 | — |
| Type III + additives | 138 | 14.5 | 1.40 | 6.81 | 03:25 | 34.4 | 22.33 |
| Premium Lite Cement + Adds | 435 | 13 | 1.77 | 9.20 | 04:20 | 137.1 | 95.40 |
| Fresh Water | 0 | 8.34 | 0 | 0 | 00:00 | 105.4 | — |
| | | | | | TOTAL | 291.9 | 117.74 |

Available Mix Water _____ Bbl. Available Displ. Fluid _____ Bbl.

| HOLE | | | TBG-CSG-D.P. | | | | | COLLAR DEPTHS | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | % EXCESS | DEPTH | SIZE | WGT. | TYPE | DEPTH | GRADE | SHOE | FLOAT | STAGE |
| 12.25 | 0 | 1410 | 9.625 | 36 | CSG | 1410 | J-55 | 1410 | 1363 | 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. |
| 20 | 106.5 | — | 80 | No liner | 0 | 0 | 0 | | 9.625 | 8RD | WATER BASED MU | 8.8 |

| 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 | |
| 105.1 | BBLS | Fresh Water | 8.34 | 490 | 0 | 0 | 0 | 0 | 2816 | 2000 | Rig |

## Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 1.2 | Circulation Rate: 6 BPM

Mud Density In: 8.8 LBS/GAL | Mud Density Out: 8.8 LBS/GAL | PV & YP Mud In: 3 | PV & YP Mud Out: 3

Gas Present: NO [X] YES [ ] Units: | Solids Present at End of Circulation: NO [X] YES [ ]

## Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] | Amount Bled Back After Job: .5 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL | Method Used to Verify Returns: Visually

Cement Returns at Surface: [X] YES [ ] NO | Were Returns Planned at Surface: [ ] NO [X] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [X] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [ ] NO [X] YES | Quantity: 10 | Type: [X] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [X] MANIFOLD [ ] NO MANIFOLD

## Plugs

Number of Attempts by BJ: 0 | Competition: 0 | Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES | Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] 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 [X]

Liner Packer: [X] NO [ ] YES | Bond Log: [X] 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

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: None

# CEMENT JOB REPORT

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 PIPE | PRESSURE - PSI ANNULUS | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW [X] CO. REP. [ ] |
| | | | | | | TEST LINES 3336 PSI |
| | | | | | | CIRCULATING WELL - RIG [X] BJ [ ] |
| 03:00 | 0 | 0 | 0 | 0 | N/A | Pre-rig up safety meeting |
| 11:30 | 0 | 0 | 0 | 0 | N/A | Pre-job safety meeting |
| 13:41 | 2106 | 0 | 0 | 0 | WATER | Low pressure test |
| 13:43 | 3336 | 0 | 0 | 0 | WATER | High pressure test |
| 13:49 | 73 | 0 | 5 | 15 | WATER | Dyed water spacer |
| 13:57 | 148 | 0 | 5.1 | 136 | CEMENT | Batch-up, weigh, & pump 435 sx of PLC + 0.08% Static Free + 3% CaCl + 0.25 lbs/sk Cello Flake + 6% Bentonite @ 13 ppg |
| 14:26 | 123 | 0 | 3.6 | 35 | CEMENT | Mix & pump 138 sx of Type III + 0.08 % Static Free + 1% Cacl2 + 0.25 lbs/sack Cello Flake @ 14.5 ppg |
| 14:35 | 0 | 0 | 0 | 0 | N/A | Drop plug |
| 14:41 | 98 | 0 | 6.4 | 38 | WATER | Displace |
| 14:47 | 224 | 0 | 6.3 | 57 | WATER | Caught cement |
| 14:59 | 450 | 0 | 3.6 | 5 | WATER | Rate change |
| 15:01 | 450 | 0 | 2.4 | 6 | WATER | Rate change |
| 15:03 | 520 | 0 | 2.4 | 106 | WATER | Bump plug |
| 15:03 | 904 | 0 | 0 | 0 | N/A | Plug down @ 106 bbls, floats did hold very well |
| 15:08 | 1077 | 0 | 0 | 0 | N/A | Bumped plug again, floats held |
| 15:10 | 0 | 0 | 0 | 0 | N/A | Pre-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] N | 520 | [Y] N | 55 | 292 | 0 | Y [N] | |

# CEMENT JOB REPORT

| CUSTOMER | DATE | F.R. # | SERV. SUPV. |
|---|---|---|---|
| Carrizo Oil & Gas | 28-MAY-11 | 1001810568 | BARLEN M JOYNER |
| **LEASE & WELL NAME** | **LOCATION** | | **COUNTY-PARISH-BLOCK** |
| ORLANDO HILL 26-44-8-61 - API 05123323170000 | 26-8N-61W | | Weld Colorado |
| **DISTRICT** | **DRILLING CONTRACTOR RIG #** | | **TYPE OF JOB** |
| Brighton | Cade #22 | | Intermediate |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE |
|---|---|
| Cement Plug, Rubber, Top 7 in | Centralizer, with Pins, 7 in |
| Cement Plug, Rubber, Bottom 7 in | Float Collar, Al Flap, 7 - 8rd |

| MATERIALS FURNISHED BY BJ | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT³ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
|---|---|---|---|---|---|---|---|
| Drilling Mud + Biocide | 0 | 9.5 | 0 | 0 | 00:00 | 45 | — |
| Water | 0 | 8.33 | 0 | 0 | 00:00 | 10 | — |
| SealBond Spacer | 0 | 8.4 | 0 | 0 | 00:00 | 40 | — |
| Premium Lite Cement + Additives | 418 | 12.5 | 1.94 | 10.65 | 00:00 | 144.42 | 105.85 |
| 50:50 Poz:G + Additives | 173 | 13.5 | 1.71 | 8.30 | 00:00 | 52.69 | 34.14 |
| Drilling Mud | 0 | 9.5 | 0 | 0 | 00:00 | 262.4 | — |
| | | | | | TOTAL | 554.51 | 139.99 |

Available Mix Water 700 Bbl. Available Displ. Fluid 500 Bbl.

| HOLE | | | TBG-CSG-D.P. | | | | | COLLAR DEPTHS | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | % EXCESS | DEPTH | SIZE | WGT. | TYPE | DEPTH | GRADE | SHOE | FLOAT | STAGE |
| 8.75 | 35 | 6798 | 7 | 23 | CSG | 6778 | P-110 | 6778 | 6664 | 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. |
| 9.625 | 36 | CSG | 1410 | No Liner | 0 | 0 | 0 | | 7 | 8RD | WATER BASED MU | 9.5 |

| 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 | |
| 262.4 | BBLS | Drilling Mud | 9.5 | 1162 | 0 | 0 | 0 | 0 | 5072 | 3000 | Rig Tank |

## Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 2.5 | Circulation Rate: 7.8 BPM

Mud Density In: 9.5 LBS/GAL | Mud Density Out: 9.5 LBS/GAL | PV & YP Mud In: 56 | PV & YP Mud Out: 56

Gas Present: NO [X] YES [ ] Units: | Solids Present at End of Circulation: NO [X] YES [ ]

## Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] | Amount Bled Back After Job: 1.25 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL | Method Used to Verify Returns: Visual

Cement Returns at Surface: [X] YES [ ] NO | Were Returns Planned at Surface: [ ] NO [X] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [X] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [ ] NO [X] YES | Quantity: 52 | Type: [X] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [X] MANIFOLD [ ] NO MANIFOLD

## Plugs

Number of Attempts by BJ: 0 | Competition: 0 | Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES | Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] 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 [X]

Liner Packer: [X] NO [ ] YES | Bond Log: [X] 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

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:** None

| PRESSURE/RATE DETAIL | EXPLANATION |
|---|---|

# 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)

WE WERE NOT INFORMED TO BRING OUT A CEMENT PLUG TO LOCATION AND THERE WAS NO PLUG ON LOCATION. CUSTOMER WAS UNDER THE IMPRESSION, IT WAS BHI'S RESPONSIBILITY. THE CUSTOMER THEN WANTED A TOP AND BOTTOM PLUG RAN OUT TO LOCATION AND WAS INFORMED THAT THIS IS NOT BHI'S RESPONSIBILITY IN THE FUTURE.

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 PIPE | PRESSURE - PSI ANNULUS | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW [X] CO. REP. [X]<br>TEST LINES 4518 PSI<br>CIRCULATING WELL - RIG [X] BJ [ ] |
| 17:38 | 0 | 0 | 0 | 0 | N/A | PRE-RIG UP SAFETY MEETING |
| 19:54 | 0 | 0 | 0 | 0 | N/A | SAFETY MEETING |
| 20:43 | 4518 | 0 | 0 | 0 | WATER | PRESSURE TEST |
| 20:48 | 1060 | 0 | 7.2 | 45 | MUD | DRILLING MUD + BIOCIDE |
| 21:01 | 622 | 0 | 7.2 | 10 | WATER | FRESH WATER SPACER + BIOCIDE |
| 21:04 | 547 | 0 | 5.2 | 40 | WATER | SEALBOND SPACER + BIOCIDE |
| 21:13 | 0 | 0 | 0 | 0 | N/A | DROP BOTTUM PLUG |
| 21:27 | 160 | 0 | 5 | 150 | CMT | BATCH UP, WEIGH AND PUMP 418 SX OF PLC + 0.25% CELLO FLAKE + 0.4% FL-52 + 6% BENTONITE @ 12.5 PPG |
| 22:02 | 114 | 0 | 4.6 | 54 | CMT | BATCH UP, WEIGH AND PUMP 173 SX OF POZ/G + 0.4% FL-52 + 3% BENTONITE + 0.1% SMS + 20% S-8 @ 13.5 PPG |
| 22:16 | 0 | 0 | 0 | 0 | N/A | DROP PLUG |
| 22:22 | 160 | 0 | 7.2 | 20 | WATER | START DISPLACEMENT |
| 22:42 | 321 | 0 | 7.2 | 60 | MUD | CAUGHT CEMENT |
| 22:53 | 1280 | 0 | 5.2 | 130 | MUD | DROP RATE |
| 22:56 | 1250 | 0 | 3.9 | 40 | MUD | DROP RATE |
| 23:03 | 1282 | 0 | 2.8 | 12.5 | MUD | DROP RATE |
| 23:07 | 1408 | 0 | 2.8 | 262.5 | MUD | BUMP PLUG |
| 23:07 | 2468 | 0 | 0 | 0 | N/A | PLUG DOWN @ 262.5 BBLS |
| 23:14 | 0 | 0 | 0 | 0 | N/A | PRE-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] N | 1408 | [Y] N | 25 | 561.5 | 0 | Y [N] | |

X

# CEMENT JOB REPORT

| | | | |
|---|---|---|---|
| CUSTOMER: Carrizo Oil & Gas | DATE: 22-MAY-11 | F.R. #: 1001806866 | SERV. SUPV.: CORY A THAUT |
| LEASE & WELL NAME: ORLANDO HILL #26-44-8-61 - API 05123323170000 | LOCATION: 26-8N-61W | | COUNTY-PARISH-BLOCK: Weld Colorado |
| DISTRICT: Brighton | DRILLING CONTRACTOR RIG #: Cade #22 | | TYPE OF JOB: Plug Back |

SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE | PHYSICAL SLURRY PROPERTIES

| MATERIALS FURNISHED BY BJ | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT$^3$ | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
|---|---|---|---|---|---|---|---|
| Mud Clean I | 0 | 8.34 | 0 | 0 | 00:00 | 20 | |
| Fresh Water | 0 | 8.34 | 0 | 0 | 00:00 | 3.7 | |
| Class G + Additives | 240 | 17 | 1.31 | 4.61 | 02:00 | 55 | 25.93 |
| (50:50) Poz:Class G + Addivtives | 408 | 14.6 | 1.38 | 5.90 | 02:30 | 100 | 57.15 |
| Mud Clean I | 0 | 8.34 | 0 | 0 | 00:00 | 20 | |
| Fresh Water | 0 | 8.34 | 0 | 0 | 00:00 | 3.7 | |
| Water Based Mud | 0 | 9.5 | 0 | 0 | 00:00 | 57.5 | |
| Water Based Mud | 0 | 9.5 | 0 | 0 | 00:00 | 50 | |
| | | | | | TOTAL | 309.9 | 83.08 |

Available Mix Water: 800 Bbl. Available Displ. Fluid: 652 Bbl.

| HOLE SIZE | HOLE % EXCESS | HOLE DEPTH | TBG-CSG-D.P. SIZE | WGT. | TYPE | DEPTH | GRADE | COLLAR DEPTHS SHOE | FLOAT | STAGE |
|---|---|---|---|---|---|---|---|---|---|---|
| 8.75 | 0 | 7080 | 4 | 14 | DP | 7080 | S-135 | | | |

| LAST CASING SIZE | WGT | TYPE | DEPTH | PKR-CMT RET-BR PL-LINER BRAND & TYPE | DEPTH | PERF. DEPTH TOP | BTM | TOP CONN SIZE | THREAD | WELL FLUID TYPE | WGT. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.625 | 36 | CSG | 1400 | No Packer | 0 | 0 | 0 | 2 | 1502 | WATER BASED MU | 9.5 |

| DISPL. VOLUME VOLUME | UOM | DISPL. FLUID TYPE | WGT. | CAL. PSI BUMP PLUG | CAL. MAX PSI TO REV. | OP. MAX SQ. PSI | MAX TBG PSI RATED | Operator | MAX CSG PSI RATED | Operator | MIX WATER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 111.9 | BBLS | Water Based Mud | 9.5 | 0 | 0 | 0 | 0 | 0 | 3520 | 2816 | Rig |
| | | Water Based Mud | 9.5 | | | | | | | | |

## Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: 1 | Circulation Rate: 8.5 BPM

Mud Density In: 9.5 LBS/GAL Mud Density Out: 9.5 LBS/GAL | PV & YP Mud In: 19 | PV & YP Mud Out: 19

Gas Present: NO [X] YES [ ] Units: | Solids Present at End of Circulation: NO [X] YES [ ]

## Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] | Amount Bled Back After Job: 4 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL | Method Used to Verify Returns: Visual

Cement Returns at Surface: [ ] YES [X] NO | Were Returns Planned at Surface: [X] NO [ ] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [ ] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [X] NO [ ] YES | Quantity: | Type: [ ] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [ ] MANIFOLD [X] NO MANIFOLD

## Plugs

Number of Attempts by BJ: 1 Competition: 0 | Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES | Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] NO [ ] YES | Top of Plug: 4995 FT Bottom of Plug: 7080 FT

## Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE [ ] SHOE SQUEEZE [ ] TOP OF LINER SQUEEZE [ ] PLANNED [ ] UNPLANNED [ ]

Liner Packer: [X] NO [ ] YES | Bond Log: [X] 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

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

# 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 PIPE | PRESSURE - PSI ANNULUS | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW [X] CO. REP. [X]<br>TEST LINES 4181 PSI<br>CIRCULATING WELL - RIG [X] BJ [ ] |
| 02:52 | 0 | 0 | 0 | 0 | 0 | Arrive on location / Consult with customer / Wait for rig to move casing racks so we can spot equipment |
| 03:35 | 0 | 0 | 0 | 0 | 0 | Spot equipment |
| 03:45 | 0 | 0 | 0 | 0 | 0 | Pre rig up JSA |
| 03:48 | 0 | 0 | 0 | 0 | 0 | Begin groung rig up |
| 04:40 | 0 | 0 | 0 | 0 | 0 | Ground rig up complete (wait for rig to trip in hole with pipe- 3 hours and 20 minutes) |
| 08:00 | 0 | 0 | 0 | 0 | 0 | JSA with customer and rig crew |
| 08:26 | 0 | 0 | 0 | 0 | 0 | JSA finished / Wait for rig to rig up top connection (26 minutes) |
| 08:52 | 0 | 0 | 0 | 0 | 0 | Begin floor rig up |
| 09:00 | 0 | 0 | 0 | 0 | 0 | Floor rig up complete |
| 09:08 | 363 | 0 | 2.4 | 2 | H2O | Load lines |
| 09:11 | 3500 | 0 | 0 | 0 | H2O | Low pressure test |
| 09:12 | 4049 | 0 | 0 | 0 | H2O | High pressure test - Double wing on top of anaconda leaking - bleed off pressure to fix |
| 09:23 | 4181 | 0 | 0 | 0 | H2O | 2nd High pressure test |
| 09:26 | 880 | 0 | 6 | 20 | MDCLN | Spacer - Mud Clean |
| 09:35 | 883 | 0 | 4.9 | 100 | CMNT | Batch up and pump Cement slurry for plug 1: 50/50 Poz/G +.3% CD-32 + .4% FL-52 + .1% SMS + 20% Silica Flour |
| 09:57 | 146 | 0 | 5 | 3.7 | H2O | Pump disp-spacer - Fresh Water |
| 09:58 | 186 | 0 | 6.2 | 57.5 | MUD | Start displacement with Water Based Mud @ 9.5 ppg |
| 10:11 | 0 | 0 | 0 | 0 | 0 | Shut down |
| 13:27 | 104 | 0 | 1.9 | 2 | H2O | Load lines |
| 13:29 | 2200 | 0 | 0 | 0 | H2O | Low pressure test |
| 13:30 | 4106 | 0 | 0 | 0 | H2O | High pressure test |
| 13:31 | 650 | 0 | 5.9 | 20 | MDCLN | Spacer - Mud Clean |
| 13:43 | 133 | 0 | 3.7 | 55 | CMNT | Batch up and pump Cement slurry for plug 2: Class G + .1% R-3 + .75% CD-32 + 35% Silica Sand |
| 14:06 | 94 | 0 | 5.4 | 3.7 | H2O | Pump disp-spacer - Fresh Water |
| 14:07 | 91 | 0 | 5.7 | 47 | MUD | Start displacement with Water Based Mud @ 9.5 ppg |
| 14:16 | 0 | 0 | 0 | 0 | 0 | Shut down / Stop service |
| 14:20 | 0 | 0 | 0 | 0 | 0 | Pre rig down JSA |

| 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 [N] | 0 | Y [N] | 0 | 306.9 | 0 | Y [N] | |