

HALLIBURTON

MINERAL RESOURCES INC

Island Grove 2-32

Weld County , Colorado

Cement Intermediate Casing

11-May-2012

Job Site Documents

Cementing Job Summary

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|------------------------|---------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 1 | Clean Spacer III | | 40.00 | bbl | 10.5 | 3.86 | 24.21 | 5.0 | |
| 2 | EconoCem B3 12.5# | ECONOCEM (TM) SYSTEM (452992) | 345.0 | sacks | 12.5 | 1.98 | 10.73 | 5.0 | 10.73 |
| 10.73 Gal | | FRESH WATER | | | | | | | |
| 3 | ExpandaCem B1 14.6# | EXPANDACEM (TM) SYSTEM (452979) | 110.0 | sacks | 14.6 | 1.46 | 6.09 | 5.0 | 6.09 |
| 6.09 Gal | | FRESH WATER | | | | | | | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 286 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 149 | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | 0 | Actual Displacement | 286 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 40 | Load and Breakdown | | Total Job | 475 |
| Rates | | | | | | | | | |
| Circulating | 8 | Mixing | 8 | Displacement | 8 | Avg. Job | 8 | | |
| Cement Left In Pipe | Amount | 42 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

The Road to Excellence Starts with Safety

| | | | |
|---|----------------------------|--|--------------------------------|
| Sold To #: 345252 | Ship To #: 2925111 | Quote #: | Sales Order #: 9508019 |
| Customer: MINERAL RESOURCES INC | | Customer Rep: Benge, Red | |
| Well Name: Island Grove | | Well #: 2-32 | API/UWI #: 05-123-35463 |
| Field: | City (SAP): GREELEY | County/Parish: Weld | State: Colorado |
| Legal Description: | | | |
| Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. | | Long: E 0 deg. OR E 0 deg. 0 min. 0 secs. | |
| Contractor: Ensign | | Rig/Platform Name/Num: 14 | |
| Job Purpose: Cement Intermediate Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Intermediate Casing | |
| Sales Person: FLING, MATTHEW | | Srv Supervisor: FANTASIA, JOSEPH | MBU ID Emp #: 485445 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|---------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Arrive at Location from Service Center | 05/11/2012 07:00 | | | | | | | |
| Assessment Of Location Safety Meeting | 05/11/2012 07:30 | | | | | | | |
| Start Job | 05/11/2012 11:50 | | | | | | | |
| Test Lines | 05/11/2012 12:00 | | | | | | 3420.0 | PRESSURE TEST LINES TO 3500 PSI |
| Pump Spacer 1 | 05/11/2012 12:10 | | 5 | 40 | | | 254.0 | 40 BBLS CELAN SPACER MIXED AT 10.5 PPG USING RIG WATER |
| Pump Lead Cement | 05/11/2012 12:28 | | 8 | 121 | | | 440.0 | 345 SKS ECONOCEM MIXED AT 12.5 PPG USING RIG WATER |
| Pump Tail Cement | 05/11/2012 12:45 | | 8 | 28 | | | 340.0 | 110 SKS EXPANDACEM MIXED AT 14.6 PPG |
| Shutdown | 05/11/2012 12:55 | | | | | | | |
| Drop Top Plug | 05/11/2012 12:58 | | | | | | | PLUG PRELOADED |
| Pump Displacement | 05/11/2012 13:00 | | 8 | 286 | | | 144.0 | GOOD RETURNS THROUGHOUT |
| Bump Plug | 05/11/2012 13:50 | | 3 | | | | 1850.0 | PLUG LANDED AT 1850 PSI AND BROUGHT TO 2475 PSI. PRESSURE HELD FOR 5 MINUTES FOR A CASING PRESSURE TEST. |
| Check Floats | 05/11/2012 13:55 | | | | | | | FLOATS HELD |
| End Job | 05/11/2012 14:00 | | | | | | | |