
BILL BARRETT CORPORATION E-BILL

**FEDERAL 13A-34-691
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
20-Dec-2011

Post Job Report

The Road to Excellence Starts with Safety

| | | | |
|--|--|-------------------------|------------------------|
| Sold To #: 343492 | Ship To #: 2896394 | Quote #: | Sales Order #: 9132801 |
| Customer: BILL BARRETT CORPORATION E-BILL | Customer Rep: Hartnett, Jack | | |
| Well Name: FEDERAL | Well #: 13A-34-691 | API/UWI #: 05-045-20865 | |
| Field: MAMM CREEK | City (SAP): SILT | County/Parish: Garfield | State: Colorado |
| Lat: N 39.479 deg. OR N 39 deg. 28 min. 45.163 secs. | Long: W 107.553 deg. OR W -108 deg. 26 min. 48.113 secs. | | |
| Contractor: PROPETRO | Rig/Platform Name/Num: PROPETRO 1 | | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: FLING, MATTHEW | Srvc Supervisor: SMITH, CHRISTOPHER | MBU ID Emp #: 452619 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|-------------------------|---------|--------|----------------|---------|--------|--------------------------|---------|--------|
| EICKHOFF, ROBERT Edward | | 495311 | LEIST, JAMES R | | 362787 | SMITH, CHRISTOPHER Scott | | 452619 |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10616651C | 120 mile | 10867322 | 120 mile | 10998512 | 120 mile | 11259882 | 120 mile |
| 11808827 | 120 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|-------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| | | | | | | | | |
| TOTAL | | | | | | | | |

Total is the sum of each column separately

| Job | | | | Job Times | | | |
|------------------------|--------|-------------------|--------|---------------|-----------------|-----------|-----|
| Formation Name | | | | Date | Time | Time Zone | |
| Formation Depth (MD) | Top | | Bottom | Called Out | 20 - Dec - 2011 | 00:01 | MST |
| Form Type | | BHST | | On Location | 20 - Dec - 2011 | 04:00 | MST |
| Job depth MD | 830. m | Job Depth TVD | 830. m | Job Started | 20 - Dec - 2011 | 08:10 | MST |
| Water Depth | | Wk Ht Above Floor | 3. m | Job Completed | 20 - Dec - 2011 | 09:05 | MST |
| Perforation Depth (MD) | From | | To | Departed Loc | 20 - Dec - 2011 | 10:00 | MST |

Well Data

| Description | New / Used | Max pressure MPa | Size mm | ID mm | Weight kg/m | Thread | Grade | Top MD m | Bottom MD m | Top TVD m | Bottom TVD m |
|-------------|------------|------------------|---------|-------|-------------|--------|-------|----------|-------------|-----------|--------------|
|-------------|------------|------------------|---------|-------|-------------|--------|-------|----------|-------------|-----------|--------------|

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| R/A DENSOMETER W/CHART RECORDER,/JOB,ZI | 1 | JOB | | |
| ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI | 1 | JOB | | |
| PORT. DATA ACQUIS. W/OPTICEM RT W/HES | 1 | EA | | |
| PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA | 1 | EA | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | | | | | | | | | | Centralizers | | | |

Miscellaneous Materials

| Gelling Agt | Conc | Surfactant | Conc | Acid Type | Qty | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor | Conc | Sand Type | Size | Qty | |

Fluid Data

Stage/Plug #: 1

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density kg/m3 | Yield m3/sk | Mix Fluid m3/tonne | Rate m3/min | Total Mix Fluid m3/tonne |
|--|--------------|-------------------------------|-----------------|-----------------------------------|----------------------|---------------------|--------------------|-----------------|--------------------------|
| 1 | WATER SPACER | | 20.00 | bbl | 8.34 | .0 | .0 | 7.0 | |
| 2 | VERSACEM | VERSACEM (TM) SYSTEM (452010) | 125.0 | sacks | 12.3 | 2.38 | 13.77 | 7.0 | 13.77 |
| | 0.25 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 13.77 Gal | FRESH WATER | | | | | | | |
| 3 | SWIFTCEM | SWIFTCEM (TM) SYSTEM (452990) | 125.0 | sacks | 14.2 | 1.43 | 6.85 | 7.0 | 6.85 |
| | 0.25 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 6.85 Gal | FRESH WATER | | | | | | | |
| 4 | DISPLACEMENT | | 60.00 | bbl | 8.3 | | | 7.0 | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | | Shut In: Instant | | Lost Returns | | Cement Slurry | | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | | Actual Displacement | | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | | Displacement | | Avg. Job | | | |
| Cement Left In Pipe | Amount | 0 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

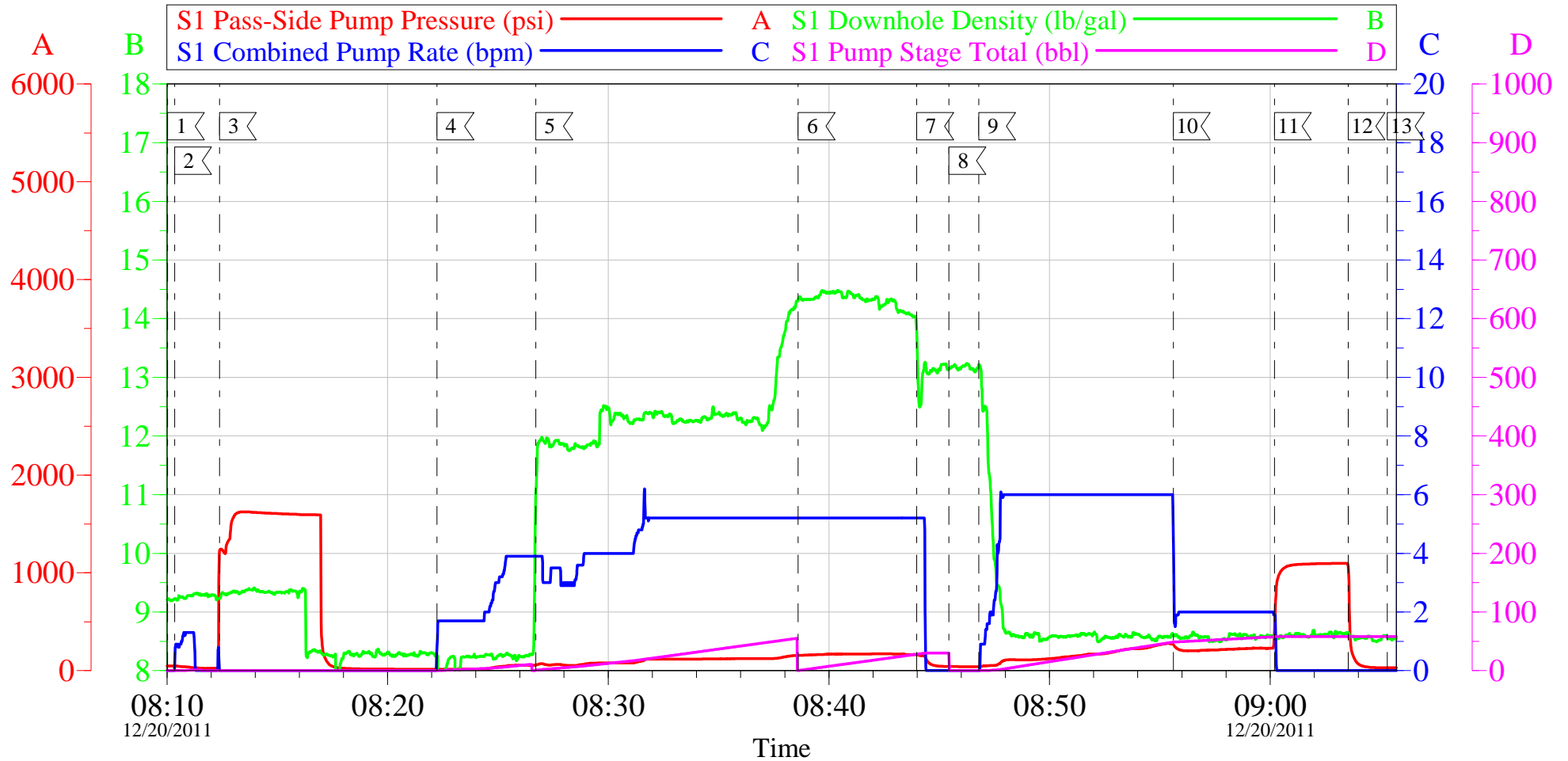
| | | | |
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| Field: MAMM CREEK | City (SAP): SILT | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
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| Contractor: PROPETRO | | Rig/Platform Name/Num: PROPETRO 1 | |
| Job Purpose: Cement Surface Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: FLING, MATTHEW | | Srv Supervisor: SMITH, CHRISTOPHER | MBU ID Emp #: 452619 |

| Activity Description | Date/Time | Cht # | Rate m3/min | Volume m3 | | Pressure MPa | | Comments |
|---------------------------------------|------------------|-------|-------------|-----------|-------|--------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Pre-Convoy Safety Meeting | 12/20/2011 01:00 | | | | | | | ALL HES PERSONEL |
| Crew Leave Yard | 12/20/2011 01:30 | | | | | | | |
| Arrive At Loc | 12/20/2011 03:00 | | | | | | | RIG RUNNING DRILLING. |
| Assessment Of Location Safety Meeting | 12/20/2011 03:15 | | | | | | | ALL HES PERSONEL |
| Rig-Up Equipment | 12/20/2011 07:30 | | | | | | | |
| Pre-Job Safety Meeting | 12/20/2011 07:55 | | | | | | | ALL HES PERSONEL AND RIG CREW |
| Start Job | 12/20/2011 08:10 | | | | | | | TD 830', TP 813.41', SJ 44.91', OH 12.25", CSG 9.625" 32.3# J-55, NO MUD IN WELL. |
| Other | 12/20/2011 08:10 | | 2 | 2 | | | 35.0 | FILL LINES |
| Pressure Test | 12/20/2011 08:12 | | 0.5 | 0.5 | | | | ALL LINES HELD PRESSURE AT 1630 PSI |
| Pump Spacer 1 | 12/20/2011 08:22 | | 4 | 10 | | | 56.0 | FRESH WATER, CUT H2O SPACER DOWN PER COMP REP. |
| Pump Lead Cement | 12/20/2011 08:26 | | 5 | 53 | | | 155.0 | 125 SKS, 12.3 PPG, 2.38 FT3/SK, 13.77 GAL/SK, SET UP TIME 3:05 @ 70 BC |
| Pump Tail Cement | 12/20/2011 08:38 | | 5 | 32 | | | 170.0 | 125 SKS, 14.2 PPG, 1.43 FT3/ SK, 6.85 GAL/SK, SET UP TIME 3:07 @ 70 BC |
| Shutdown | 12/20/2011 08:43 | | | | | | | |

| Activity Description | Date/Time | Cht # | Rate m3/min | Volume m3 | | Pressure MPa | | Comments |
|--|------------------|-------|-------------|-----------|-------|--------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Drop Top Plug | 12/20/2011 08:45 | | | | | | | PLUG WENT |
| Pump Displacement | 12/20/2011 08:46 | | 6 | | | | 215.0 | FRESH WATER |
| Slow Rate | 12/20/2011 08:55 | | 2 | | | | 230.0 | |
| Bump Plug | 12/20/2011 09:00 | | | | | | 1050.0 | PLUG BUMPED |
| Check Floats | 12/20/2011 09:03 | | | | | | | FLOATS HELD |
| End Job | 12/20/2011 09:05 | | | | | | | FULL RETURNS WITH 109 BBLS OF FLUID PUMPED, 35 BBLS OF CEMENT TO SURFACE, JOB PUMPED OFF LINE. |
| Post-Job Safety Meeting (Pre Rig-Down) | 12/20/2011 09:10 | | | | | | | ALL HES PERSONEL |
| Rig-Down Completed | 12/20/2011 09:45 | | | | | | | |
| Depart Location Safety Meeting | 12/20/2011 09:55 | | | | | | | ALL HES PERSONEL |
| Crew Leave Location | 12/20/2011 10:00 | | | | | | | |
| Other | 12/20/2011 10:10 | | | | | | | THANK YOU FOR CHOOSING HALLIBURTON, CHRIS SMITH AND CREW |

BILL BARRETT - FED 13A-34-691

9.625" SURFACE



Local Event Log

| | | | | | |
|--------------|----------|---------------|----------|--------------------|----------|
| 1 START JOB | 08:10:02 | 2 FILL LINES | 08:10:21 | 3 TEST LINES | 08:12:23 |
| 4 H2O SPACER | 08:22:14 | 5 LEAD CEMENT | 08:26:43 | 6 TAIL CEMENT | 08:38:36 |
| 7 SHUTDOWN | 08:43:59 | 8 DROP PLUG | 08:45:26 | 9 H2O DISPLACEMENT | 08:46:48 |
| 10 SLOW RATE | 08:55:37 | 11 BUMP PLUG | 09:00:12 | 12 CHECK FLOATS | 09:03:32 |
| 13 END JOB | 09:05:19 | | | | |

Customer: BILL BARRETT CORPORATION E-BILL
 Well Description: FEDERAL 13A-34-691
 Company Rep: C.LAUER

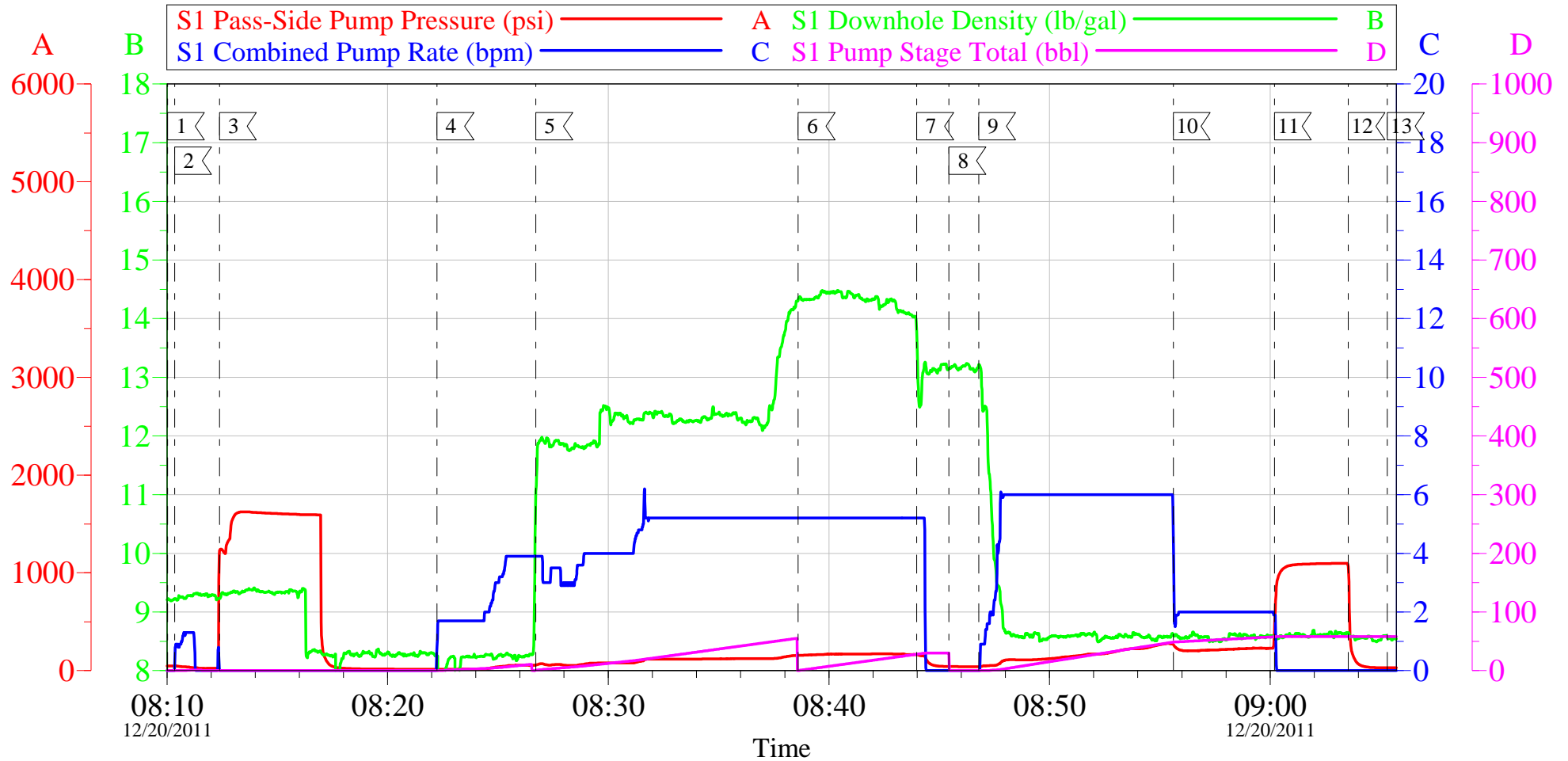
Job Date: 20-Dec-2011
 Job Type: SURFACE
 Cement Supervisor: C.SMITH

Sales Order #: 9132801
 ADC Used: YES
 Elite #4: R.EICKHOFF

OptiCem v6.4.10
 20-Dec-11 09:19

BILL BARRETT - FED 13A-34-691

9.625" SURFACE



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| 1 START JOB | 08:10:02 | 2 FILL LINES | 08:10:21 | 3 TEST LINES | 08:12:23 |
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Customer: BILL BARRETT CORPORATION E-BILL
 Well Description: FEDERAL 13A-34-691
 Company Rep: C.LAUER

Job Date: 20-Dec-2011
 Job Type: SURFACE
 Cement Supervisor: C.SMITH

Sales Order #: 9132801
 ADC Used: YES
 Elite #4: R.EICKHOFF

OptiCem v6.4.10
 20-Dec-11 09:19

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: CHRIS SMITH

Attention: J.Trout

Lease FEDERAL

Well # 13A-34-691

Date: 12.20.11

Date Rec.: 12.20.11

S.O.# 9132801

Job Type: SURFACE

| | | |
|-----------------------------|--------------|-------------------|
| Specific Gravity | <i>MAX</i> | <i>1</i> |
| pH | <i>8</i> | <i>7</i> |
| Potassium (K) | <i>5000</i> | <i>200</i> Mg / L |
| Calcium (Ca) | <i>500</i> | <i>120</i> Mg / L |
| Iron (FE2) | <i>300</i> | <i>3</i> Mg / L |
| Chlorides (Cl) | <i>3000</i> | <i>0</i> Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | <i>200</i> Mg / L |
| Chlorine (Cl ₂) | | <i>0</i> Mg / L |
| Temp | <i>40-80</i> | <i>70</i> Deg |
| Total Dissolved Solids | | <i>110</i> Mg / L |

Respectfully: CHRIS SMITH

Title: CEMENTING SUPERVISOR

Location: Grand Junction, CO

NOTICE:

This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or

| | | |
|---|--|--|
| Sales Order #: 9132801 | Line Item: 10 | Survey Conducted Date: 12/20/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: C.LAUVER | | API / UWI: (leave blank if unknown) 05-045-20865 |
| Well Name: FEDERAL | | Well Number: 13A-34-691 |
| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: No | Well State: Colorado | Well County: Garfield |

Dear Customer,

We hope that you were satisfied with the service quality of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CUSTOMER SATISFACTION SURVEY

| CATEGORY | CUSTOMER SATISFACTION RESPONSE | |
|-------------------------|--|-----------------------------|
| Survey Conducted Date | The date the survey was conducted | 12/20/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | CHRISTOPHER SMITH (HB20137) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | C.LAUVER |
| HSE | Was our HSE performance satisfactory? Circle Y or N | Yes |
| Equipment | Were you satisfied with our Equipment? Circle Y or N | Yes |
| Personnel | Were you satisfied with our people? Circle Y or N | Yes |
| Customer Comment | Customer's Comment | |

CUSTOMER SIGNATURE

| | | |
|---|--|--|
| Sales Order #: 9132801 | Line Item: 10 | Survey Conducted Date: 12/20/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: C.LAUVER | | API / UWI: (leave blank if unknown) 05-045-20865 |
| Well Name: FEDERAL | | Well Number: 13A-34-691 |
| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: No | Well State: Colorado | Well County: Garfield |

KEY PERFORMANCE INDICATORS

| General | |
|---|------------|
| Survey Conducted Date The date the survey was conducted | 12/20/2011 |

| Cementing KPI Survey | |
|--|-------------------------|
| Type of Job Select the type of job. (Cementing or Non-Cementing) | 0 |
| Select the Maximum Deviation range for this Job What is the highest deviation for the job you just completed? This may not be the maximum well deviation. | Vertical |
| Total Operating Time (hours) Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format. | 1.5 |
| HSE Incident, Accident, Injury HSE Incident, Accident, Injury. This should be recordable incidents only. | No |
| Was the job purpose achieved? Was the job delivered correctly as per customer agreed design? | Yes |
| Operating Hours (Pumping Hours) Total number of hours pumping fluid on this job. Enter in decimal format. | 1 |
| Customer Non-Productive Rig Time (hrs) Lost time due to Halliburton in the start, execution, or completion of an ordered service or product, or delays in a follow-on service. Enter in decimal format. 0 if none. | 0 |
| Type of Rig Classification Job Was Performed Type Of Rig (classification) Job Was Performed On | Drilling Rig (Portable) |
| Number Of JSAs Performed Number Of Jsas Performed | 7 |
| Number of Unplanned Shutdowns Unplanned shutdown is when injection stops for any period of time. | 0 |
| Was this a Primary Cement Job (Yes / No) | Yes |

| | | |
|---|--|--|
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| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: No | Well State: Colorado | Well County: Garfield |

| | |
|--|-----|
| Primary Cement Job= Casing job, Liner job, or Tie-back job. | |
| Did We Run Wiper Plugs? Did We Run Top And Bottom Casing Wiper Plugs? | Top |
| Mixing Density of Job Stayed in Designed Density Range (0-100%) Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100 | 94 |
| Was Automated Density Control Used? Was Automated Density Control (ADC) Used ? | Yes |
| Pump Rate (percent) of Job Stayed At Designed Pump Rate Pump Rate range defined as +/- 1bbl/min. Calculation: Total BBLs of fluid pumped at the designed rate divided by Total BBLs of fluid pumped, multiplied by 100 | 93 |
| Nbr of Remedial Sqz Jobs Rqd - Competition Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition | 0 |
| Nbr of Remedial Plug Jobs Rqd - HES Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES | 0 |
| Nbr of Remedial Sqz Jobs Rqd - HES Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES | 0 |