
BILL BARRETT CORPORATION E-BILL

**CBS 41B-21-692
MAMM CREEK
Garfield County , Colorado**

Cement Surface Casing
12-Nov-2011

Post Job Report

The Road to Excellence Starts with Safety

| | | | |
|--|--|-------------------------|------------------------|
| Sold To #: 343492 | Ship To #: 2889249 | Quote #: | Sales Order #: 9043545 |
| Customer: BILL BARRETT CORPORATION E-BILL | Customer Rep: Lauer, Casey | | |
| Well Name: CBS | Well #: 41B-21-692 | API/UWI #: 05-045-20124 | |
| Field: MAMM CREEK | City (SAP): Silt | County/Parish: Garfield | State: Colorado |
| Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.474 secs. | Long: W 106.671 deg. OR W -107 deg. 19 min. 43.342 secs. | | |
| Contractor: PROPETRO | Rig/Platform Name/Num: PROPETRO | | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: METLI, MARSHALL | Srvc Supervisor: HUGENTOBLE, LOGAN | MBU ID Emp #: 447333 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------------|---------|--------|-------------------|---------|--------|--------------------------|---------|--------|
| HUGENTOBLE, LOGAN Mark | 6 | 447333 | LINN, PAUL Andrew | 6 | 479143 | SILVERTHORN, AARON Jacob | 6 | 491305 |
| SINGLETON, AUSTIN W | 6 | 487406 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10867304 | 120 mile | 10998054 | 120 mile | 11560046 | 120 mile | 11562538 | 120 mile |
| 11583932 | 120 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|----------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 11/12/11 | 6 | 1 | | | | | | |

TOTAL Total is the sum of each column separately

Job

| Formation Name | Top | Bottom | Called Out | Date | Time | Time Zone |
|------------------------|---------|-------------------|---------------|-----------------|-------|-----------|
| Formation Depth (MD) | | | On Location | 11 - Nov - 2011 | 22:30 | MST |
| Form Type | | BHST | Job Started | 12 - Nov - 2011 | 02:00 | MST |
| Job depth MD | 840. ft | Job Depth TVD | Job Completed | 12 - Nov - 2011 | 04:25 | MST |
| Water Depth | | Wk Ht Above Floor | Departed Loc | 12 - Nov - 2011 | 05:22 | MST |
| Perforation Depth (MD) | From | To | | | 08:00 | MST |

Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|

Sales/Rental/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA | 1 | EA | | |
| 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 | | |

Tools and Accessories

| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|-------|-----|------|
| Guide Shoe | | | | | Packer | | | | | Top Plug | 9.625 | 1 | hes |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | 9.625 | 1 | hes |
| 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 lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | WATER SPACER | | 20.00 | bbl | 8.34 | .0 | .0 | 6 | |
| 2 | Lead Cement | VERSACEM (TM) SYSTEM (452010) | 120.0 | sacks | 12.3 | 2.38 | 13.77 | 6 | 13.77 |
| | 13.77 Gal | FRESH WATER | | | | | | | |
| 3 | Tail Cement | SWIFTCEM (TM) SYSTEM (452990) | 120.0 | sacks | 14.2 | 1.43 | 6.85 | 6 | 6.85 |
| | 6.85 Gal | FRESH WATER | | | | | | | |
| 4 | DISPLACEMENT | | 60.00 | bbl | 8.33 | | | 8 | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 60 | Shut In: Instant | 255 | Lost Returns | 0 | Cement Slurry | 80 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 25 | Actual Displacement | 60 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 20 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | | Mixing | 6 | Displacement | 8 | Avg. Job | | 7 | |
| Cement Left In Pipe | Amount | 45 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

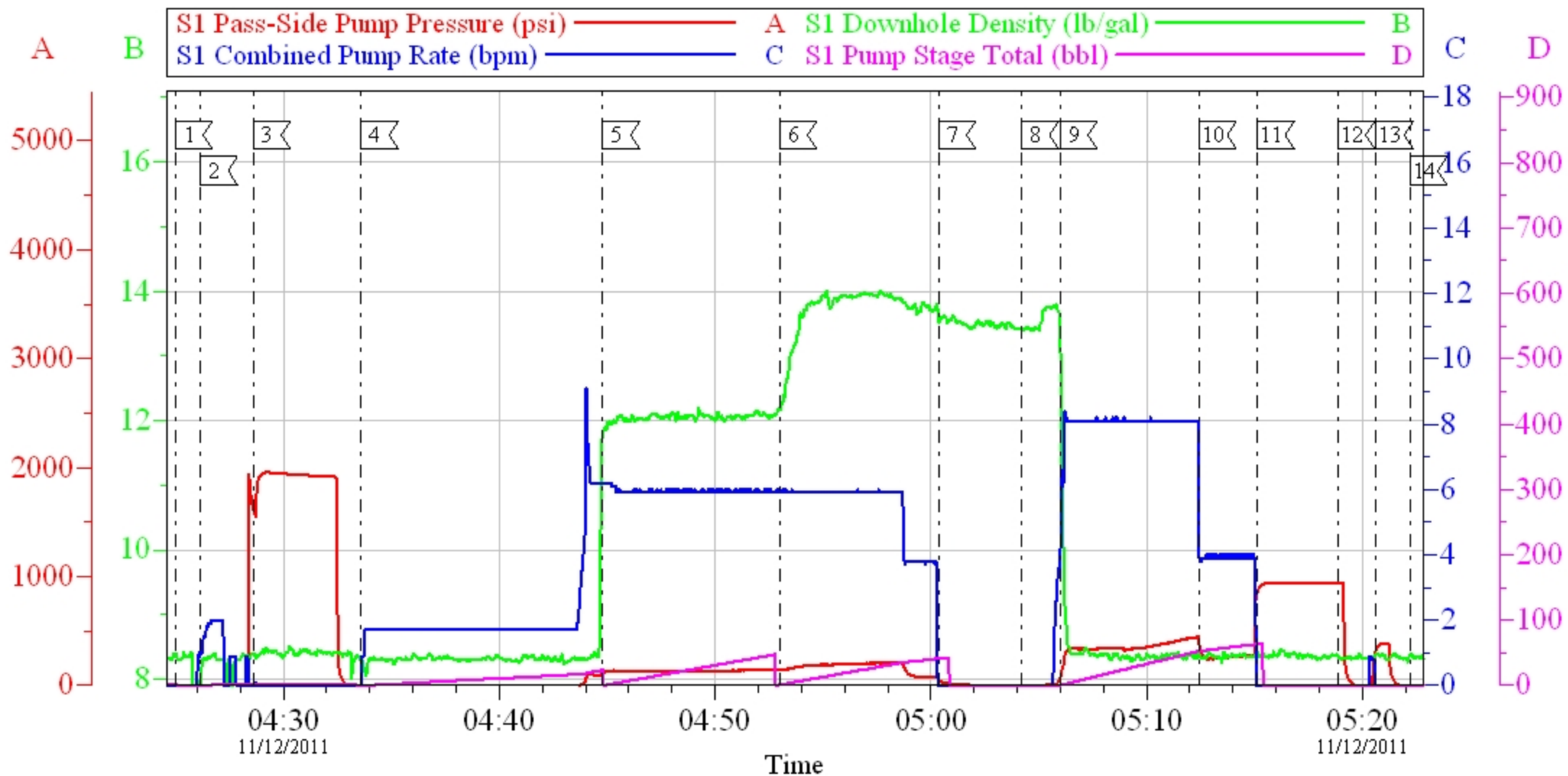
| | | | |
|---|---------------------------|---|-------------------------------|
| Sold To #: 343492 | Ship To #: 2889249 | Quote #: | Sales Order #: 9043545 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Customer Rep: Lauer, Casey | |
| Well Name: CBS | Well #: 41B-21-692 | API/UWI #: 05-045-20124 | |
| Field: MAMM CREEK | City (SAP): Silt | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
| Lat: N 39.515 deg. OR N 39 deg. 30 min. 52.474 secs. | | Long: W 106.671 deg. OR W -107 deg. 19 min. 43.342 secs. | |
| Contractor: PROPETRO | | Rig/Platform Name/Num: PROPETRO | |
| Job Purpose: Cement Surface Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: METLI, MARSHALL | | Srv Supervisor: HUGENTOBLE, LOGAN | MBU ID Emp #: 447333 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 11/11/2011 22:30 | | | | | | | |
| Pre-Convoy Safety Meeting | 11/11/2011 23:55 | | | | | | | ALL HES EMPLOYEES |
| Arrive At Loc | 11/12/2011 02:00 | | | | | | | RIG STILL RUNNING CASING |
| Assessment Of Location Safety Meeting | 11/12/2011 02:45 | | | | | | | ALL HES EMPLOYEES |
| Rig-Up Equipment | 11/12/2011 03:00 | | | | | | | 1 HT-400 PUMP TRUCK, 1 660 BULK TRUCK, 1 F-550 P/U, 1 PLUG CONTAINER |
| Pre-Job Safety Meeting | 11/12/2011 04:00 | | | | | | | ALL HES EMPLOYEES, RIG CREW, CO REP AND ANY 3RD PARTY VENDORS |
| Start Job | 11/12/2011 04:25 | | | | | | | TP 827, TD 840, SJ 45, FC 782, NO WELL FLUID AIR DRILLED, RATE 6 BBL/MIN |
| Pump Water | 11/12/2011 04:26 | | 2 | 2 | | | 16.0 | FILL LINES PRIOR TO PRESSURE TESTING LINES |
| Pressure Test | 11/12/2011 04:28 | | | | | | | NO LEAKS, KICK OUTS SET TO 2000 PSI FOR TEST. |
| Pump Spacer 1 | 11/12/2011 04:33 | | 6 | 20 | | | 97.0 | FRESH WATER |
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
| | | | | Stage | Total | Tubing | Casing | |

| | | | | | | | | |
|---|---------------------|--|---|----|--|--|-------|--|
| Pump Lead Cement | 11/12/2011 04:44 | | 6 | 50 | | | 137.0 | 120 SKS VERSACEM CMT TO BE MIXED AT 12.3 PPG, 2.38 YIELD, 13.77 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES WET AND DRY SAMPLES SUBMITTED. |
| Pump Tail Cement | 11/12/2011 04:53 | | 6 | 30 | | | 207.0 | 120 SKS SWIFTCM CMT TO BE MIXED AT 14.2 PPG, 1.43 YIELD, 6.85 GAL/SK, CMT TO BE WEIGHED VIA PRESSURE BALANCED MUD SCALES, WET AND DRY SAMPLES SUBMITTED, |
| Shutdown | 11/12/2011 05:00 | | | | | | | |
| Drop Plug | 11/12/2011 05:04 | | | | | | | PLUG LAUNCHED |
| Pump Displacement | 11/12/2011 05:05 | | 8 | 60 | | | 421.0 | FRESH WATER |
| Slow Rate | 11/12/2011 05:12 | | 4 | | | | 338.0 | 10 BBLS PRIOR TO CALCULATED DISPLACEMENT |
| Bump Plug | 11/12/2011 05:15 | | | | | | 891.0 | PLUG LANDED |
| Check Floats | 11/12/2011 05:18 | | | | | | | FLOATS HOLDING, 25 BBLS CEMENT TO SURFACE |
| Shut In Well | 11/12/2011 05:20 | | | | | | 255.0 | |
| End Job | 11/12/2011 05:22 | | | | | | | THANK YOU FOR USING HES LOGAN HUGENTOBLE AND CREW |
| Post-Job Safety Meeting (Pre Rig-Down) | 11/12/2011 05:25 | | | | | | | ALL HES EMPLOYEES |
| Rig-Down Equipment | 11/12/2011 05:30 | | | | | | | |
| Pre-Convoy Safety Meeting | 11/12/2011 07:50 | | | | | | | ALL HES EMPLOYEES |
| Crew Leave Location | 11/12/2011 08:00 | | | | | | | LOCATION CLEAN |

BILL BARRETT-41B-21-692

SURFACE



Local Event Log

| | | | | | |
|-------------------|----------|--------------------|----------|---------------------|----------|
| 1 START JOB | 04:25:00 | 2 PRIME LINES | 04:26:09 | 3 PRESSURE TEST | 04:28:36 |
| 4 PUMP H2O SPACER | 04:33:37 | 5 PUMP LEAD CEMENT | 04:44:48 | 6 PUMP TAIL CEMENT | 04:53:00 |
| 7 SHUTDOWN | 05:00:22 | 8 DROP PLUG | 05:04:12 | 9 PUMP DISPLACEMENT | 05:05:59 |
| 10 SLOW RATE | 05:12:26 | 11 BUMP PLUG | 05:15:08 | 12 CHECK FLOATS | 05:18:51 |
| 13 SHUT-IN-WELL | 05:20:39 | 14 END JOB | 05:22:12 | | |

Customer: BILL BARRETT

Well Description: 41B-21-692

Company Rep: CASRY LAUER

Job Date: 12-Nov-2011

Job Type: SURFACE

Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043545

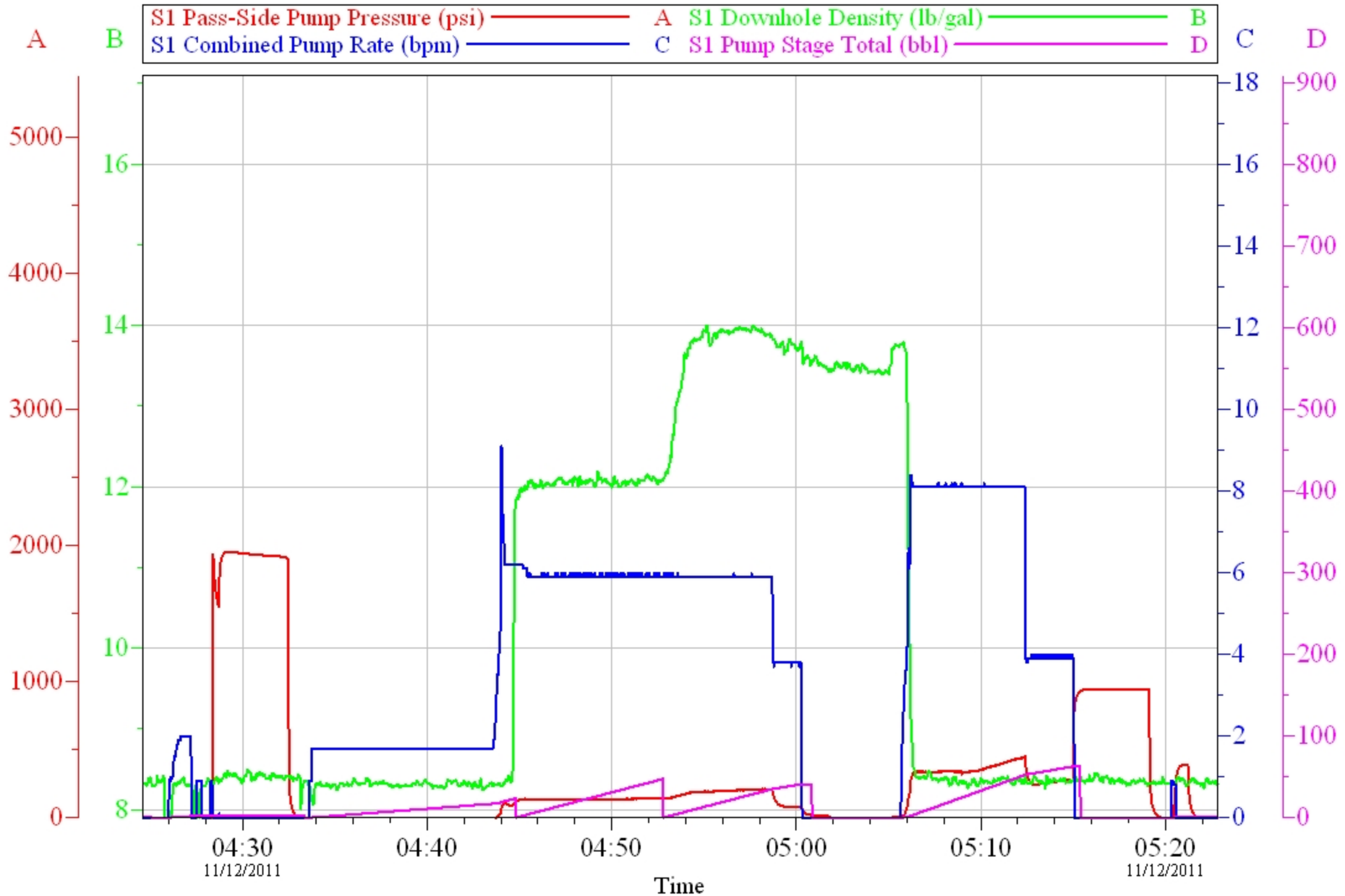
ADC Used: YES

Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
12-Nov-11 06:47

BILL BARRETT-41B-21-692

SURFACE



Customer: BILL BARRETT
Well Description: 41B-21-692
Company Rep: CASRY LAUER

Job Date: 12-Nov-2011
Job Type: SURFACE
Cement Supervisor: LOGAN HUGENTOBLE

Sales Order #: 9043545
ADC Used: YES
Elite #5: AARON SILVERTHORN

OptiCem v6.4.10
12-Nov-11 06:48

HALLIBURTON

Water Analysis Report

Company: BILL BARRETT
Submitted by: LOGAN HUGENTOBLE
Attention: _____
Lease: CBS
Well #: 41B-21-692

Date: 11/15/2011
Date Rec.: 11/15/2011
S.O.#: 9043545
Job Type: 9.625 SURFACE

| | | |
|-----------------------------|-------|------------------|
| Specific Gravity | MAX | 1 |
| pH | 8 | 7 |
| Potassium (K) | 5000 | 0 Mg / L |
| Calcium (Ca) | 500 | 240 Mg / L |
| Iron (FE2) | 300 | 0 Mg / L |
| Chlorides (Cl) | 3000 | 0 Mg / L |
| Sulfates (SO ₄) | 1500 | below 200 Mg / L |
| Chlorine (Cl ₂) | | 0 Mg / L |
| Temp | 40-80 | 45 Deg |
| Total Dissolved Solids | | 280 Mg / L |

Respectfully: LOGAN HUGENTOBLE

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 its use.

| | | |
|---|--|--|
| Sales Order #: 9043545 | Line Item: 10 | Survey Conducted Date: 11/12/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: CASEY LAUER | | API / UWI: (leave blank if unknown) 05-045-20124 |
| Well Name: CBS | | Well Number: 41B-21-692 |
| 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 | 11/12/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | LOGAN HUGENTOBLER (HB15210) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | CASEY LAUER |
| 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 #: 9043545 | Line Item: 10 | Survey Conducted Date: 11/12/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: CASEY LAUER | | API / UWI: (leave blank if unknown) 05-045-20124 |
| Well Name: CBS | | Well Number: 41B-21-692 |
| 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 | 11/12/2011 |

| 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. | 4 |
| 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 | 6 |
| 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 |

| | | |
|---|--|--|
| Sales Order #: 9043545 | Line Item: 10 | Survey Conducted Date: 11/12/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: CASEY LAUER | | API / UWI: (leave blank if unknown) 05-045-20124 |
| Well Name: CBS | | Well Number: 41B-21-692 |
| 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 | 98 |
| 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 | 98 |
| 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 |