
BILL BARRETT CORPORATION E-BILL

**Kaufman 21D-24-692
MAMM CREEK
Garfield County , Colorado**

**Cement Surface Casing
10-Aug-2011**

Post Job Report

The Road to Excellence Starts with Safety

| | | | | | | | |
|---|--|---------------------------|---|--|--|--------------------------------|------------------------|
| Sold To #: 343492 | | Ship To #: 2871050 | | Quote #: | | Sales Order #: 8384048 | |
| Customer: BILL BARRETT CORPORATION E-BILL | | | | Customer Rep: Henderson, Josh | | | |
| Well Name: Kaufman | | | Well #: 21D-24-692 | | | API/UWI #: 05-045-19915 | |
| Field: MAMM CREEK | | City (SAP): SILT | | County/Parish: Garfield | | | State: Colorado |
| Lat: N 39.516 deg. OR N 39 deg. 30 min. 57.845 secs. | | | | Long: W 107.614 deg. OR W -108 deg. 23 min. 8.938 secs. | | | |
| Contractor: ProPetro Services Inc. | | | 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: MAGERS, MICHAEL | | | MBU ID Emp #: 339439 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|--------------------------|---------|--------|------------------------|---------|--------|-----------------|---------|--------|
| BORSZICH, STEPHEN A | 6 | 412388 | MAGERS, MICHAEL Gerard | 6 | 339439 | SINCLAIR, DAN J | 6 | 338784 |
| WILKERSON, JAMES Michael | 6 | 496763 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10001431 | 120 mile | 10724643 | 120 mile | 10829469 | 120 mile | 10872429 | 120 mile |
| 11360883 | 120 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 08/10/2011 | 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 | 10 - Aug - 2011 | 11:00 | MST |
| Form Type | | BHST | Job Started | 10 - Aug - 2011 | 15:00 | MST |
| Job depth MD | 800. ft | Job Depth TVD | Job Completed | 10 - Aug - 2011 | 19:48 | MST |
| Water Depth | | Wk Ht Above Floor | Departed Loc | 10 - Aug - 2011 | 20:49 | MST |
| Perforation Depth (MD) | From | To | | | | |

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 |
|-----------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 12 1/4" Open Hole | | | | 12.25 | | | | . | 820. | | |
| 9 5/8" Surface Casing | New | | 9.625 | 8.921 | 36. | | J-55 | . | 796.4 | | |

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 | | |

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 | SWAGE | |
| 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 | . | .0 | .0 | .0 | | |
| 2 | VersaCem Lead Cement | VERSACEM (TM) SYSTEM (452010) | 120.0 | sacks | 12.3 | 2.38 | 13.77 | | 13.77 | |
| | 13.77 Gal | FRESH WATER | | | | | | | | |
| 3 | SwiftCem Tail Cement | SWIFTCES (TM) SYSTEM (452990) | 120.0 | sacks | 14.2 | 1.43 | 6.85 | | 6.85 | |
| | 6.85 Gal | FRESH WATER | | | | | | | | |
| 4 | Displacement | | 59.00 | bbl | . | .0 | .0 | .0 | | |
| Calculated Values | | Pressures | | Volumes | | | | | | |
| Displacement | 58.9 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 81.5 | Pad | | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 10 | Actual Displacement | 58.8 | Treatment | | |
| Frac Gradient | | 15 Min | | Spacers | 20 | Load and Breakdown | | Total Job | 160 | |
| Rates | | | | | | | | | | |
| Circulating | NONE | Mixing | 5 | Displacement | 5/2 | Avg. Job | 5 | | | |
| Cement Left In Pipe | Amount | 43.22 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: | | | | | | | |
| Lat: N 39.516 deg. OR N 39 deg. 30 min. 57.845 secs. | | | | Long: W 107.614 deg. OR W -108 deg. 23 min. 8.938 secs. | | | |
| Contractor: ProPetro Services Inc. | | | 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: MAGERS, MICHAEL | | | MBU ID Emp #: 339439 | |

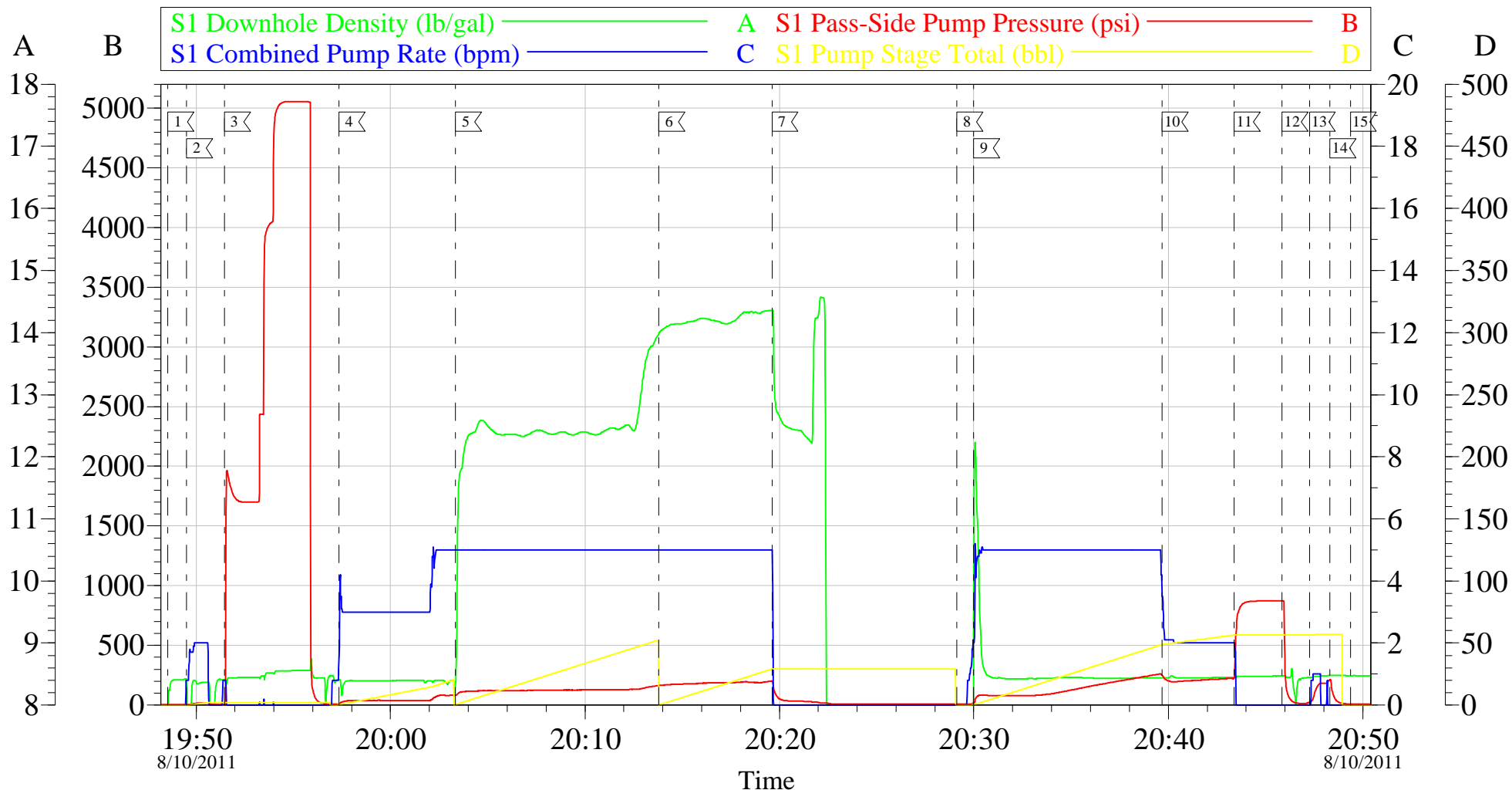
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Crew Leave Yard | 08/10/2011 13:00 | | | | | | | HES ALL PRESENT |
| Arrive At Loc | 08/10/2011 15:00 | | | | | | | RIG WAS STILL DRILLING WHEN HES ARRIVED |
| Assessment Of Location Safety Meeting | 08/10/2011 15:10 | | | | | | | GOOD CONDITION |
| Pre-Rig Up Safety Meeting | 08/10/2011 15:20 | | | | | | | 1 PICKUP 1 ELITE 1 BULK TRUCK |
| Rig-Up Equipment | 08/10/2011 15:30 | | | | | | | TD-800 TP-790.9 SJ-43.22 MW-8.33 CSG-9.625 36# J-55 OH-12.75" |
| Safety Huddle | 08/10/2011 19:40 | | | | | | | RIG CREW AND HES ALL PRESENT |
| Start Job | 08/10/2011 19:48 | | | | | | | |
| Other | 08/10/2011 19:49 | | 2 | 2 | | | 15.0 | FILL LINES |
| Pressure Test | 08/10/2011 19:51 | | 0.5 | 0.5 | | | 5052.0 | PSI TEST OK |
| Pump Spacer 1 | 08/10/2011 19:57 | | 3 | 20 | | | 59.0 | FRESH WATER |
| Pump Lead Cement | 08/10/2011 20:03 | | 5 | 50.9 | | | 166.0 | VERSACEM 120 SKS 12.3 PPG 2.38 FT3/SK 13.77 GAL/SK |
| Pump Tail Cement | 08/10/2011 20:13 | | 5 | 30.6 | | | 195.0 | SWIFTCESM 120 SKS 14.2 PPG 1.43 FT3/SK 6.85 GAL/SK GOT RETURNS AT 22 BBLS GONE |
| Shutdown | 08/10/2011 20:19 | | | | | | | |
| Drop Plug | 08/10/2011 20:29 | | | | | | | PLUG AWAY NO PROBLEMS |

Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|-------------------------|---------------------|----------|---------------------|---------------|-------|------------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Displacement | 08/10/2011 20:30 | | 5 | 58.8 | | | 213.0 | FRESH WATER GOT RETURNS BACK AT 9 BBLS INTO DISPLACEMENT |
| Slow Rate | 08/10/2011 20:39 | | 2 | 49 | | | 219.0 | GOT 10 BBLS OF CEMENT TO SURFACE |
| Bump Plug | 08/10/2011 20:43 | | 2 | 58.8 | | | 245.0 | BUMPED PLUG |
| Check Floats | 08/10/2011 20:45 | | | 58.8 | | | 780.0 | FLOATS HELD/GOT 1/2BBL BACK INTO DISPLACEMENT |
| Shut In Well | 08/10/2011 20:47 | | | | | | 195.0 | SHUT IN 2" LO-TORC VALUE WITH 195 PSI |
| Release Casing Pressure | 08/10/2011 20:48 | | | | | | | RELEASED PRESSURE |
| End Job | 08/10/2011 20:49 | | | | | | | THANKS FOR USING HES AND THE CREW OF MIKE MAGERS |

BILL BARRETT PRO PETRO

9.625 SURFACE



Customer: BILL BARRETT PRO PETRO
 Well Description: KAUFMAN 21D-24-692
 Company Rep: JOSH HENDERSON

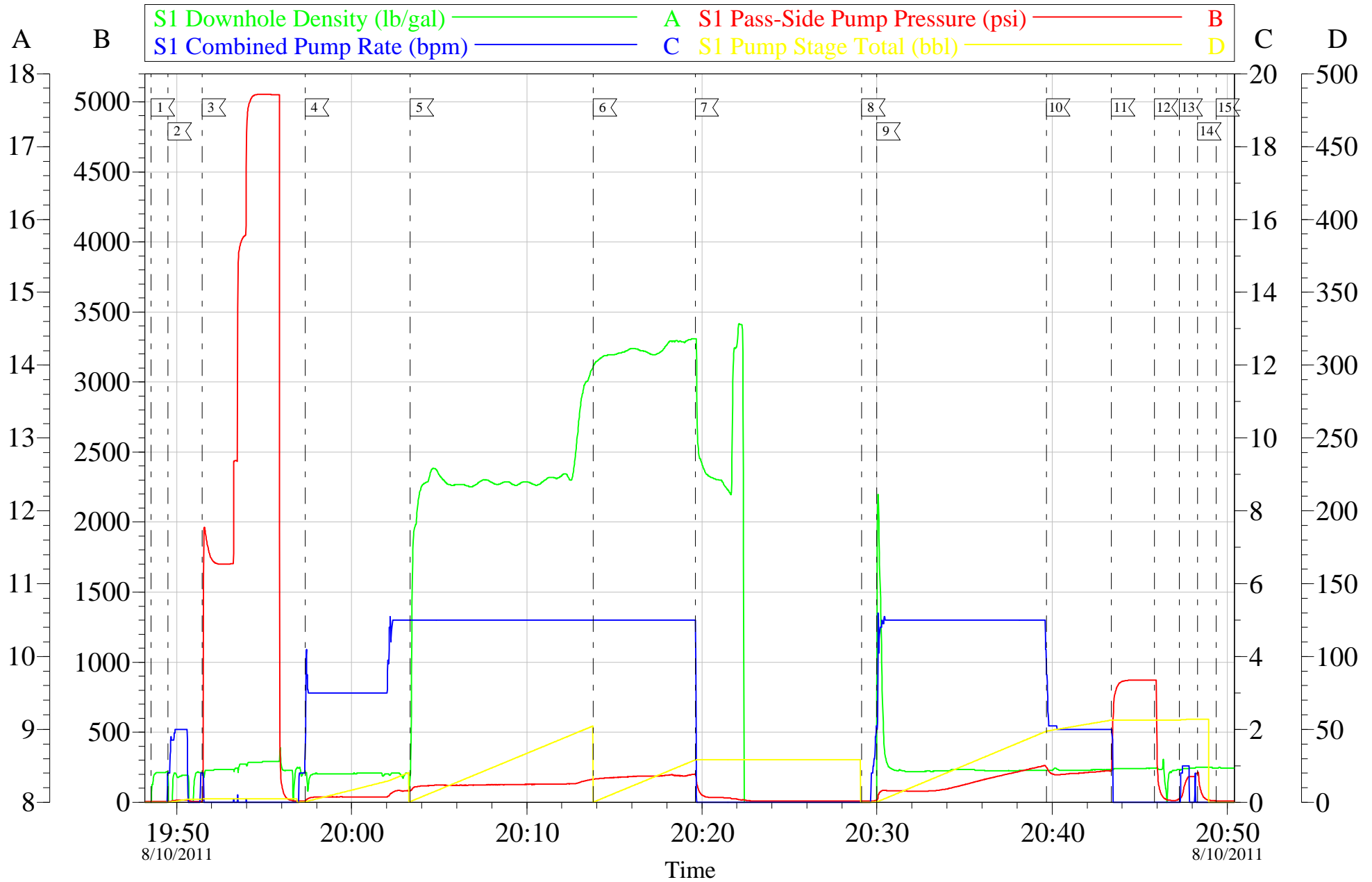
Job Date: 10-Aug-2011
 Job Type: SURFACE
 Cement Supervisor: MIKE MAGERS

Sales Order #: 8384048
 ADC Used: YES
 Elite #: 7 DAN SINCLAIR

OptiCem v6.3.4
 10-Aug-11 21:02

BILL BARRETT PRO PETRO

9.625 SURFACE



Customer: BILL BARRETT PRO PETRO
 Well Description: KAUFMAN 21D-24-692
 Company Rep: JOSH HENDERSON

Job Date: 10-Aug-2011
 Job Type: SURFACE
 Cement Supervisor: MIKE MAGERS

Sales Order #: 8384048
 ADC Used: YES
 Elite #: 7 DAN SINCLAIR

OptiCem v6.3.4
 10-Aug-11 21:02

| EVENT # | EVENT | VOLUME | SACKS | WEIGHT | YIELD | GAL/ SK |
|-----------------------------|----------------------------|--|---------------------|--------------------|--------|----------|
| 1 | Start Job | | | | | |
| 6 | Test Lines | 5000.0 | | | | |
| 9 | H2O Spacer | 20.0 | 3 bbls/min | | | |
| 13 | Pump Lead Cement | 50.9 | 120 | 12.3 | 2.38 | 13.77 |
| 15 | Pump Tail Cement | 30.6 | 120 | 14.2 | 1.43 | 6.85 |
| 48 | Shut Down | | | | | |
| 32 | Drop Plug | | | | | |
| 23 | Pump Frsh Wtr Displacement | 58.8 | 5 bbls/min | | | |
| 1085 | Slow Rate | 49.0 | 2 bbls/min | | | |
| 26 | Bump Plug | 189 PSI | Plus | 500 | Over | 689 PSI |
| 511 | Check Floats | | | | | |
| 2 | Release Psi / Job Over | 0.0 | | | | |
| | | | | | | |
| | | | Do Not Overdisplace | | | |
| DISPLACEMENT | TOTAL PIPE | SHOE JOINT LENGTH | | FLOAT COLLAR | BBL/FT | H2O REQ. |
| 58.84 | 790.9 | 43.20 | | 747.70 | 0.0787 | 160 |
| PSI to Lift Pipe | 341 | ***** <u>Use Mud Scales on Each Tier</u> ***** | | | | |
| Total Displacement | 58.84 | | | | | |
| CALCULATED DIFFERENTIAL PSI | | 189 | | TOTAL FLUID PUMPED | | 160 |
| Collapse | 1400 | BURST | 2370 | | SO# | 8384048 |

| | | |
|---|--|--|
| Sales Order #: 8384048 | Line Item: 10 | Survey Conducted Date: 8/10/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: JOSH HENDERSON | | API / UWI: (leave blank if unknown) 05-045-19915 |
| Well Name: Kaufman | | Well Number: 21D-24-692 |
| 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 | 8/10/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | MICHAEL MAGERS (HX13672) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | JOSH HENDERSON |
| 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 | |
| Job DVA | Did we provide job DVA above our normal service today? Circle Y or N | No |
| Time | Please enter hours in decimal format to nearest quarter hour. | |
| Other | Enter short text for other efficiencies gained. | |
| Customer Initials | Customer's Initials | |
| Please provide details | Please describe how the job efficiencies were gained. | |

CUSTOMER SIGNATURE

| | | |
|---|--|--|
| Sales Order #: 8384048 | Line Item: 10 | Survey Conducted Date: 8/10/2011 |
| Customer: BILL BARRETT CORPORATION E-BILL | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: JOSH HENDERSON | | API / UWI: (leave blank if unknown) 05-045-19915 |
| Well Name: Kaufman | | Well Number: 21D-24-692 |
| 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 | 8/10/2011 |

| 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. | 2 |
| 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 | Workover |
| Number Of JSAs Performed Number Of Jsas Performed | 4 |
| 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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| Customer Representative: JOSH HENDERSON | | API / UWI: (leave blank if unknown) 05-045-19915 |
| Well Name: Kaufman | | Well Number: 21D-24-692 |
| 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 | 95 |
| 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 | 95 |
| 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 |