
WILLIAMS PRODUCTION RMT INC - EBUS

**SG 323-35
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
04-Dec-2011

Post Job Summary

The Road to Excellence Starts with Safety

| | | | | | | | |
|---|--------------------------|------------------------------|---------------------------------------|--|--------------------------------|-------------------------------|--------------------------|
| Sold To #: 300721 | | Ship To #: 2894441 | | Quote #: | | Sales Order #: 9084264 | |
| Customer: WILLIAMS PRODUCTION RMT INC - EBUS | | | | Customer Rep: Geary, Scott | | | |
| Well Name: SG | | | Well #: 323-35 | | API/UWI #: 05-045-20275 | | |
| Field: GRAND VALLEY | | City (SAP): PARACHUTE | | County/Parish: Garfield | | State: Colorado | |
| Lat: N 39.391 deg. OR N 39 deg. 23 min. 27.218 secs. | | | | Long: W 108.083 deg. OR W -109 deg. 55 min. 0.142 secs. | | | |
| Contractor: H&P 278 | | | Rig/Platform Name/Num: H&P 278 | | | | |
| Job Purpose: Cement Surface Casing | | | | | | | |
| Well Type: Development Well | | | | Job Type: Cement Surface Casing | | | |
| Sales Person: MAYO, MARK | | | Srvc Supervisor: ERIC CARTER | | MBU ID Emp #: 345598 | | |
| Job Personnel | | | | | | | |
| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs |
| BANKS, BRENT A | 8 | 371353 | CARTER, ERIC Earl | 8 | 345598 | JENKINS, DEMON Lashaun | 457892 |
| Equipment | | | | | | | |
| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
| 10565341 | 60 mile | 10804567 | 60 mile | 10872429 | 60 mile | 11259885 | 60 mile |
| 11360883 | 60 mile | | | | | | |
| Job Hours | | | | | | | |
| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours |
| 12/4/11 | 8 | 1 | | | | | |
| TOTAL | | | | <i>Total is the sum of each column separately</i> | | | |
| Job | | | | Job Times | | | |
| Formation Name | | | | Date | Time | Time Zone | |
| Formation Depth (MD) | Top | 0 | Bottom | 1000.26 | Called Out | 04 - Dec - 2011 | 11:30 |
| Form Type | BHST | | | On Location | 04 - Dec - 2011 | 15:00 | MST |
| Job depth MD | 1000.26 ft | | | Job Depth TVD | 1000.26 ft | Job Started | 04 - Dec - 2011 |
| Water Depth | Wk Ht Above Floor | | | 5. ft | Job Completed | 04 - Dec - 2011 | 21:50 |
| Perforation Depth (MD) | From | | To | | Departed Loc | 04 - Dec - 2011 | 23:00 |
| Well Data | | | | | | | |
| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade |
| OPEN HOLE | | | | 13.5 | | | |
| SURFACE CASING | Unknown | | 9.625 | 9.001 | 32.3 | | H-40 |
| Sales/Rental/3rd Party (HES) | | | | | | | |
| Description | | | | | | Qty | Qty uom |
| 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 |
| Guide Shoe | | | | | Packer | | |
| Float Shoe | | | | | Bridge Plug | | |
| Float Collar | | | | | Retainer | | |
| Insert Float | | | | | | | |
| Stage Tool | | | | | | | |
| Miscellaneous Materials | | | | | | | |
| Gelling Agt | | Conc | | Surfactant | | Conc | |
| Treatment Fld | | Conc | | Inhibitor | | Conc | |
| | | | | Acid Type | | Qty | |
| | | | | Sand Type | | Size | |

| 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 | 5.5 | | |
| 2 | Tail Cement | VERSACEM (TM) SYSTEM (452010) | 285.0 | sacks | 12.8 | 2.11 | 11.75 | 8 | 11.75 | |
| 11.75 Gal | | FRESH WATER | | | | | | | | |
| 3 | Displacement Fluid | | 75.30 | bbl | 8.34 | .0 | .0 | 9 | | |
| Calculated Values | | Pressures | | Volumes | | | | | | |
| Displacement | 75.3 | Shut In: Instant | | Lost Returns | NONE | Cement Slurry | 107.1 | Pad | | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 22 | Actual Displacement | 75.3 | Treatment | | |
| Frac Gradient | | 15 Min | | Spacers | 20 | Load and Breakdown | | Total Job | 202.4 | |
| Rates | | | | | | | | | | |
| Circulating | RIG @ 10 | Mixing | 8 | Displacement | 9 | Avg. Job | | 8.5 | | |
| Cement Left In Pipe | Amount | 43.5 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 | | | | | | |

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| | | | |
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| Well Name: SG | Well #: 323-35 | API/UWI #: 05-045-20275 | |
| Field: GRAND VALLEY | City (SAP): PARACHUTE | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
| Lat: N 39.391 deg. OR N 39 deg. 23 min. 27.218 secs. | | Long: W 108.083 deg. OR W -109 deg. 55 min. 0.142 secs. | |
| Contractor: H&P 278 | | Rig/Platform Name/Num: H&P 278 | |
| Job Purpose: Cement Surface Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: MAYO, MARK | | Srvc Supervisor: ERIC CARTER | MBU ID Emp #: 345598 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 12/04/2011 11:30 | | | | | | | |
| Depart Yard Safety Meeting | 12/04/2011 13:50 | | | | | | | ATTENDED BY ALL HES CREW |
| Crew Leave Yard | 12/04/2011 14:00 | | | | | | | |
| Arrive At Loc | 12/04/2011 15:00 | | | | | | | RIG RUNNING CASING |
| Assessment Of Location Safety Meeting | 12/04/2011 15:10 | | | | | | | ATTENDED BY ALL HES CREW |
| Other | 12/04/2011 15:20 | | | | | | | SPOT EQUIPMENT |
| Pre-Rig Up Safety Meeting | 12/04/2011 16:00 | | | | | | | ATTENDED BY ALL HES CREW |
| Rig-Up Equipment | 12/04/2011 16:10 | | | | | | | |
| Wait on HES Materials to Arrive - Start Time | 12/04/2011 18:45 | | | | | | | HES ELITE UNIT WENT DOWN WHILE RIG WAS CIRCULATING TO CONDITION WELL, HES CALLED FOR ANOTHER ELITE |
| Wait on HES Materials to Arrive - End Time | 12/04/2011 19:45 | | | | | | | HES ELITE ARRIVED ON LOCATION |
| Pre-Job Safety Meeting | 12/04/2011 20:30 | | | | | | | ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP |
| Start Job | 12/04/2011 20:58 | | | | | | | TP 1000.26', TD 1042', SJ 43.5', FC 956.76', MW 8.7 PPG, CASING 9.625", 32.3#, H-40, HOLE 13.5", CENTRALIZERS |
| Other | 12/04/2011 20:58 | | 2 | 2 | | | 120.0 | FILL LINES |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Test Lines | 12/04/2011 21:00 | | | | | | | PRESSURED UP TO 2567 PSI, PRESSURE HELD |
| Pump Spacer 1 | 12/04/2011 21:04 | | 5.5 | 20 | | | 186.0 | FRESH WATER |
| Pump Tail Cement | 12/04/2011 21:13 | | 8 | 107.1 | | | 495.0 | 285 SKS MIXED AT 12.8 PPG, 2.11 YIELD, 11.75 GL/SK |
| Shutdown | 12/04/2011 21:26 | | | | | | | |
| Drop Top Plug | 12/04/2011 21:31 | | | | | | | COMPANY REP VERIFIED THAT PLUG LAUNCHED |
| Pump Displacement | 12/04/2011 21:32 | | 9 | 65.3 | | | 579.0 | FRESH WATER |
| Slow Rate | 12/04/2011 21:41 | | 4 | 10 | | | 255.0 | |
| Bump Plug | 12/04/2011 21:48 | | | | | | 783.0 | PLUG LANDED |
| Check Floats | 12/04/2011 21:49 | | | | | | | FLOATS HELD |
| End Job | 12/04/2011 21:50 | | | | | | | GOOD CIRCULATION THROUGH OUT JOB, 22 BBLS CEMENT TO SURFACE, PIPE WAS MOVED DURING JOB |
| Post-Job Safety Meeting (Pre Rig-Down) | 12/04/2011 21:55 | | | | | | | ATTENDED BY ALL HES CREW |
| Rig-Down Equipment | 12/04/2011 22:00 | | | | | | | |
| Depart Location Safety Meeting | 12/04/2011 22:50 | | | | | | | ATTENDED BY ALL HES CREW |
| Crew Leave Location | 12/04/2011 23:00 | | | | | | | THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW. |

HALLIBURTON

Water Analysis Report

Company: WILLIAMS
Submitted by: ERIC CARTER
Attention: J.Trout
Lease: H+P 278
Well #: SG 323-35

Date: 12/4/2011
Date Rec.: 12/4/2011
S.O.#: 9084264
Job Type: SURFACE

| | | |
|-----------------------------|--------------|-----------------------|
| Specific Gravity | <i>MAX</i> | <i>1</i> |
| pH | <i>8</i> | <i>7</i> |
| Potassium (K) | <i>5000</i> | <i>250</i> Mg / L |
| Hrdness | <i>500</i> | <i>250</i> Mg / L |
| Iron (FE2) | <i>300</i> | <i>0</i> Mg / L |
| Chlorides (Cl) | <i>3000</i> | <i>250</i> Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | <i><200</i> Mg / L |
| Temp | <i>40-80</i> | <i>40</i> Deg |
| Total Dissolved Solids | | <i>690</i> Mg / L |

Respectfully: ERIC CARTER

Title: CEMENTING SUPERVISOR

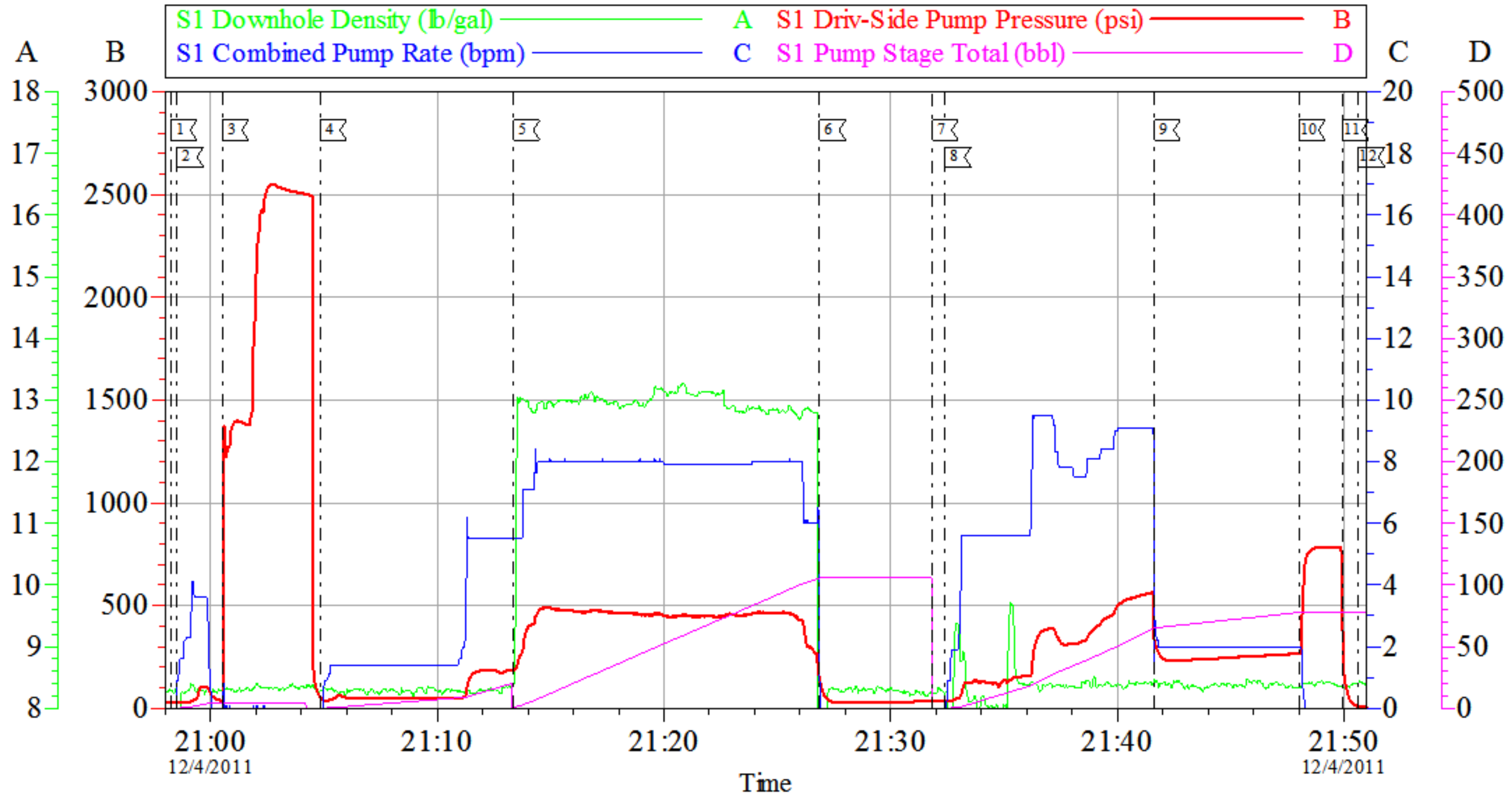
Location: Grand Junction, CO

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 repor

WILLIAMS/SG 323-35

9.625" SURFACE

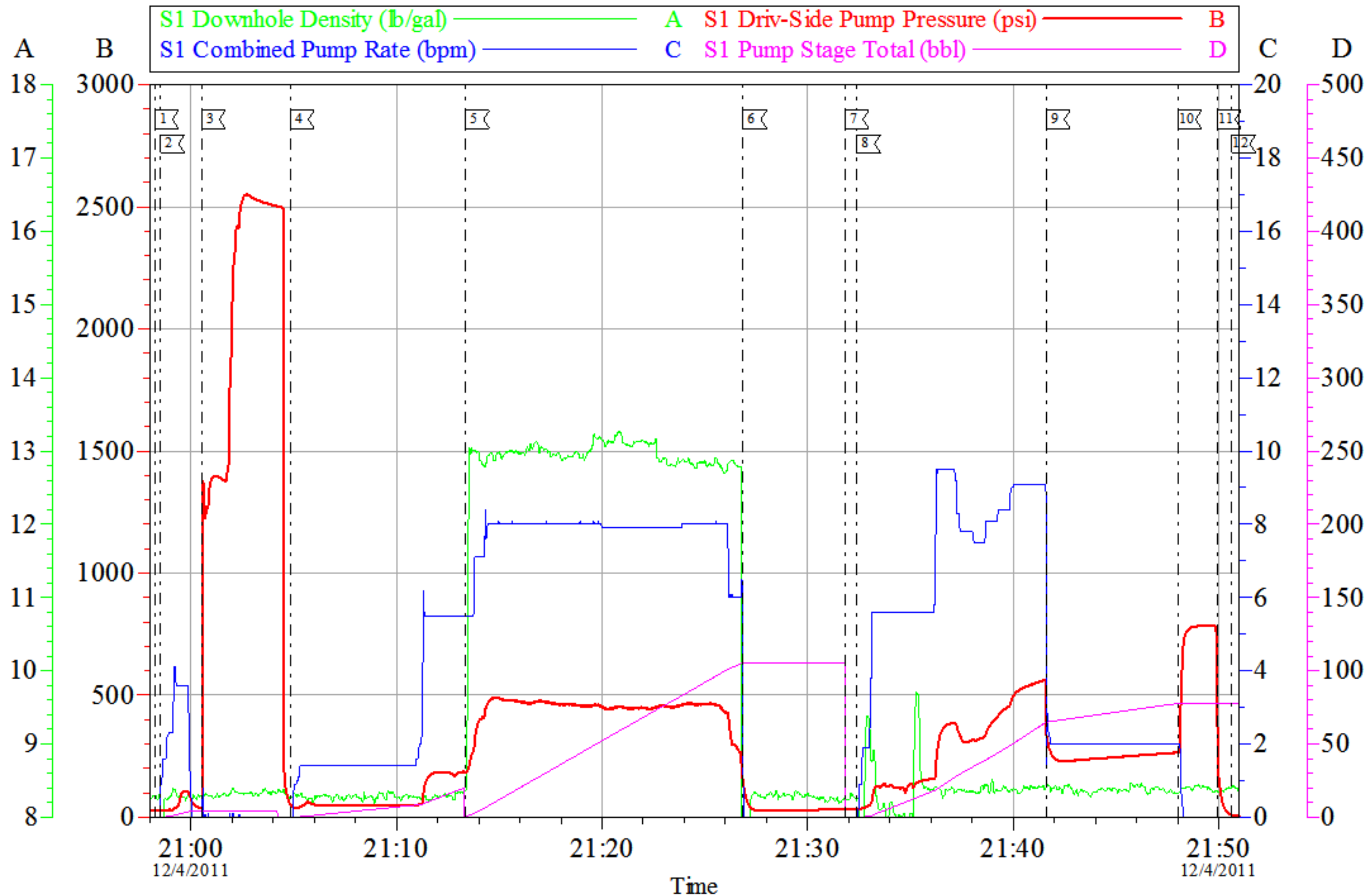


| Local Event Log | | | |
|--------------------|----------|-------------------------|----------|
| 1 STARTJOB | 20:58:14 | 2 FILL LINES | 20:58:32 |
| 3 TEST LINES | 21:00:31 | 4 PUMP H2O SPACER | 21:04:51 |
| 5 PUMP TAIL CEMENT | 21:13:22 | 6 SHUTDOWN | 21:26:52 |
| 7 DROP TOP PLUG | 21:31:50 | 8 PUMP H2O DISPLACEMENT | 21:32:24 |
| 9 SLOW RATE | 21:41:38 | 10 BUMP PLUG | 21:48:01 |
| 11 CHECK FLOATS | 21:49:56 | 12 END JOB | 21:50:39 |

| | | | | | |
|-------------------|------------------------------------|--------------------|-------------|-------------------|---------------|
| Customer: | WILLIAMS PRODUCTION RMT INC - EBUS | Job Date: | 04-Dec-2011 | Sales Order #: | 9084264 |
| Well Description: | SG 323-35 | Job Type: | SURFACE | ADC Used: | YES |
| Company Rep: | RICK OAKS | Cement Supervisor: | ERIC CARTER | Elite #/Operator: | 3/BRENT BANKS |

WILLIAMS/SG 323-35

9.625" SURFACE



| | | | | | |
|-------------------|------------------------------------|--------------------|-------------|-------------------|---------------|
| Customer: | WILLIAMS PRODUCTION RMT INC - EBUS | Job Date: | 04-Dec-2011 | Sales Order #: | 9084264 |
| Well Description: | SG 323-35 | Job Type: | SURFACE | ADC Used: | YES |
| Company Rep: | RICK OAKS | Cement Supervisor: | ERIC CARTER | Elite #/Operator: | 3/BRENT BANKS |

| | | |
|--|--|--|
| Sales Order #: 9084264 | Line Item: 10 | Survey Conducted Date: 12/4/2011 |
| Customer: WILLIAMS PRODUCTION RMT INC - EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: RICK OAKS | | API / UWI: (leave blank if unknown) 05-045-20275 |
| Well Name: SG | | Well Number: 323-35 |
| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: | 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 | 12/4/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | ERIC CARTER (HX15491) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | RICK OAKS |
| 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 #: 9084264 | Line Item: 10 | Survey Conducted Date: 12/4/2011 |
| Customer: WILLIAMS PRODUCTION RMT INC - EBUS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: RICK OAKS | | API / UWI: (leave blank if unknown) 05-045-20275 |
| Well Name: SG | | Well Number: 323-35 |
| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: | Well State: Colorado | Well County: Garfield |

KEY PERFORMANCE INDICATORS

| General | |
|---|-----------|
| Survey Conducted Date The date the survey was conducted | 12/4/2011 |

| 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. | 2.5 |
| 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 | 5 |
| 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 #: 9084264 | Line Item: 10 | Survey Conducted Date: 12/4/2011 |
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| Customer Representative: RICK OAKS | | API / UWI: (leave blank if unknown) 05-045-20275 |
| Well Name: SG | | Well Number: 323-35 |
| Well Type: Development Well | Well Country: United States of America | |
| H2S Present: | 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 | 89 |
| 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 | 89 |
| 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 |