HALLIBURTON

# OXY GRAND JUNCTION EBUSINESS

**CC 697-04-57A**
**GRAND VALLEY**
**Garfield County , Colorado**

# Cement Surface Casing

**26-Mar-2012**

# Post Job Summary

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# *Cementing Job Summary*

***The Road to Excellence Starts with Safety***

| | | | |
|---|---|---|---|
| **Sold To #:** 344034 | **Ship To #:** 344034 | **Quote #:** | **Sales Order #:** 9340335 |
| **Customer:** OXY GRAND JUNCTION EBUSINESS | | **Customer Rep:** Adam, Derek | |
| **Well Name:** CC | **Well #:** 697-04-57A | | **API/UWI #:** 05-045-20716 |
| **Field:** GRAND VALLEY | **City (SAP):** PARACHUTE | **County/Parish:** Garfield | **State:** Colorado |
| **Lat:** N 39.549 deg. OR N 39 deg. 32 min. 55.824 secs. | | **Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.496 secs. | |
| **Contractor:** OXY | **Rig/Platform Name/Num:** H&P 330 | | |
| **Job Purpose:** Cement Surface Casing | | | |
| **Well Type:** Development Well | **Job Type:** Cement Surface Casing | | |
| **Sales Person:** HIMES, JEFFREY | **Srvc Supervisor:** NICKLE, RYON | **MBU ID Emp #:** 454759 | |

## Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---|---|---|---|---|---|---|---|---|
| BORSZICH, STEPHEN A | 18 | 412388 | JENSEN, SHANE Lynn | 18 | 441759 | NICKLE, RYON | 18 | 454759 |
| SPARKS, CLIFFORD Paul | 18 | 502476 | | | | | | |

## Equipment

| HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* |
|---|---|---|---|---|---|---|---|
| 10001431 | 60 mile | 10744648C | 60 mile | 10867304 | 60 mile | 10897797 | 60 mile |
| 10998054 | 60 mile | 10998508 | 60 mile | 11583934 | 60 mile | | |

## Job Hours

| Date | *On Location Hours* | Operating Hours | Date | *On Location Hours* | Operating Hours | Date | *On Location Hours* | Operating Hours |
|---|---|---|---|---|---|---|---|---|
| 3/26/2012 | 18 | 6 | | | | | | |
| **TOTAL** | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | | | |
|---|---|---|---|---|---|
| **Formation Name** | | | | | |
| **Formation Depth (MD)** | **Top** | 0 | **Bottom** | **2830** | |
| **Form Type** | | **BHST** | | | |
| **Job depth MD** | 2780. ft | **Job Depth TVD** | 2780. ft | | |
| **Water Depth** | | **Wk Ht Above Floor** | 4. ft | | |
| **Perforation Depth (MD)** | *From* | | **To** | | |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| **Called Out** | 25 - Mar - 2012 | 10:20 | MST |
| **On Location** | 26 - Mar - 2012 | 04:00 | MST |
| **Job Started** | 26 - Mar - 2012 | 12:54 | MST |
| **Job Completed** | 26 - Mar - 2012 | 20:05 | MST |
| **Departed Loc** | 26 - Mar - 2012 | 22:00 | 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 |
|---|---|---|---|---|
| R/A DENSOMETER W/CHART RECORDER,/JOB,ZI | 1 | JOB | | |
| PORT. DATA ACQUIS. W/OPTICEM RT W/HES | 1 | EA | | |
| ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI | 1 | JOB | | |
| 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 | 1 | HES |
| *Stage Tool* | | | | | | | | | | **Centralizers** | 9.625 | 14 | |

## 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**

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# *Cementing Job Summary*

| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | .0 | .0 | 2 | |
| 2 | Gel Water Spacer | | 20.00 | bbl | 8.34 | .0 | .0 | 2 | |
| | 0.25 gal/bbl | LGC-36 UC, BULK (101582749) | | | | | | | |
| 3 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | .0 | .0 | 4 | |
| 4 | Lead Cement | HALCEM (TM) SYSTEM (452986) | 1190.0 | sacks | 12.3 | 2.15 | 11.83 | 6 | 11.83 |
| | 11.83 Gal | FRESH WATER | | | | | | | |
| 5 | Tail Cement | VERSACEM (TM) SYSTEM (452010) | 170.0 | sacks | 12.8 | 2.07 | 10.67 | 6 | 10.67 |
| | 10.67 Gal | FRESH WATER | | | | | | | |
| 6 | Fresh Water Displacement | | 211.00 | bbl | 8.34 | .0 | .0 | 8 | |
| 7 | Top Out Cement | HALCEM (TM) SYSTEM (452986) | 92.0 | sacks | 12.5 | 1.97 | 10.96 | 2 | 10.96 |
| | 10.96 Gal | FRESH WATER | | | | | | | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Displacement* | 211.3 | Shut In: Instant | | Lost Returns | | *Cement Slurry* | 518.4 | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | 9 | Actual Displacement | 211.3 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 40 | Load and Breakdown | | Total Job | 770 |

*Rates*

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Circulating* | *RIG* | *Mixing* | 6 | *Displacement* | 8 | Avg. Job | 7 |

| | | | | | |
|---|---|---|---|---|---|
| *Cement Left In Pipe* | Amount | *47 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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# *Cementing Job Log*

***The Road to Excellence Starts with Safety***

| | | | |
|---|---|---|---|
| **Sold To #:** 344034 | **Ship To #:** 344034 | **Quote #:** | **Sales Order #:** 9340335 |
| **Customer:** OXY GRAND JUNCTION EBUSINESS | | **Customer Rep:** Adam, Derek | |
| **Well Name:** CC | **Well #:** 697-04-57A | | **API/UWI #:** 05-045-20716 |
| **Field:** GRAND VALLEY | **City (SAP):** PARACHUTE | **County/Parish:** Garfield | **State:** Colorado |
| **Legal Description:** | | | |
| **Lat:** N 39.549 deg. OR N 39 deg. 32 min. 55.824 secs. | | **Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.496 secs. | |
| **Contractor:** OXY | **Rig/Platform Name/Num:** H&P 330 | | |
| **Job Purpose:** Cement Surface Casing | | | **Ticket Amount:** |
| **Well Type:** Development Well | **Job Type:** Cement Surface Casing | | |
| **Sales Person:** HIMES, JEFFREY | **Srvc Supervisor:** NICKLE, RYON | | **MBU ID Emp #:** 454759 |

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 03/25/2012 22:00 | | | | | | | HES CEMENT CREW |
| Pre-Convoy Safety Meeting | 03/26/2012 01:15 | | | | | | | ALL HES CEMENT CREW |
| Crew Leave Yard | 03/26/2012 01:30 | | | | | | | |
| Arrive At Loc | 03/26/2012 04:00 | | | | | | | RIG RIGGING UP CASING CREW |
| Assessment Of Location Safety Meeting | 03/26/2012 04:10 | | | | | | | ALL HES CEMENT CREW |
| Other | 03/26/2012 07:00 | | | | | | | SPOT EQUIPMENT; 1 CEMENTERS F 550, 1 ELITE PUMPING UNIT, 2 660 BULK TRANSPORT |
| Pre-Rig Up Safety Meeting | 03/26/2012 07:20 | | | | | | | ALL HES CEMENT CREW |
| Pre-Job Safety Meeting | 03/26/2012 09:40 | | | | | | | ALL HES CEMENT CREW, RIG CREW, COMPANY REP, AVAILABLE 3RD PARTY EE'S |
| Start Job | 03/26/2012 12:54 | | | | | | | TD- 2831' TP- 2780' SHOE- 47' OH- 14.75" SURFACE CASING- 9.625" 36#/FT J-55 CENTRALIZERS- 14 MUD- 9 PPG |
| Other | 03/26/2012 12:55 | | 2 | 2 | | | 17.0 | FILL LINES, FRESH WATER |
| **Activity Description** | **Date/Time** | **Cht #** | **Rate bbl/ min** | **Volume bbl** | | **Pressure psig** | | **Comments** |
| | | | | **Stage** | **Total** | **Tubing** | **Casing** | |

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# *Cementing Job Log*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pressure Test | 03/26/2012 12:58 | | | | | | | STALL OUT @ 1390 PSI, HELD FOR 30 SEC. PRESSURE UP TO 3013 PSI HELD FOR 3 MIN, PRESSURE DROP TO 2967 PSI |
| Pump Spacer 1 | 03/26/2012 13:05 | | 4 | 10 | | | 47.0 | FRESH WATER |
| Pump Spacer 2 | 03/26/2012 13:11 | | 2 | 20 | | | 50.0 | GEL SPACER |
| Pump Spacer 1 | 03/26/2012 13:21 | | 4 | 10 | | | 130.0 | FRESH WATER |
| Pump Lead Cement | 03/26/2012 13:24 | | 6 | 455 | | | 267.0 | 1190 SKS; 12.3 PPG, 2.15 FT3/SK, 11.83 GAL/SK |
| Pump Tail Cement | 03/26/2012 14:40 | | 6 | 62.7 | | | 248.0 | 170 SKS; 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK |
| Shutdown | 03/26/2012 14:51 | | | | | | | WASH UP ON TOP OF PLUG PER CO REP |
| Drop Top Plug | 03/26/2012 14:52 | | | | | | | CO REP VERIFIED PLUG LAUNCHED |
| Pump Displacement | 03/26/2012 14:58 | | 6 | 201.3 | | | 832.0 | FRESH WATER, NO RETURNS THROUGHOUT DISPLACEMENT |
| Slow Rate | 03/26/2012 15:31 | | 2 | 10 | | | 612.0 | |
| Bump Plug | 03/26/2012 15:36 | | | | | | 1192.0 | |
| Check Floats | 03/26/2012 15:42 | | | | | | | FLOATS HELD, RETURNED 1 BBLS H20 |
| Pressure Up | 03/26/2012 15:42 | | | | | | 1568.0 | CASING TEST PER CO REP |
| Release Casing Pressure | 03/26/2012 16:15 | | | | | | | |
| Pump Water | 03/26/2012 16:40 | | 2 | 10 | | | 810.0 | PUMP 10 BBL H2O MIXED WITH 10 LB SUGAR THROUGH PARASITE |
| Shutdown | 03/26/2012 16:46 | | | | | | | |
| Pump Cement | 03/26/2012 17:35 | | 2 | 32 | | | 28.0 | TOPOUT CEMENT 92 SKS; 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, 23 BBLS TO BRING TO SURFACE, 9 BBLS TO SURFACE |
| **Activity Description** | **Date/Time** | **Cht** | **Rate bbl/ min** | **Volume bbl** | | **Pressure psig** | | **Comments** |

Sold To # : 344034 Ship To # :344034 Quote # : Sales Order # : 9340335

SUMMIT Version: 7.3.0021 Monday, March 26, 2012 07:38:00

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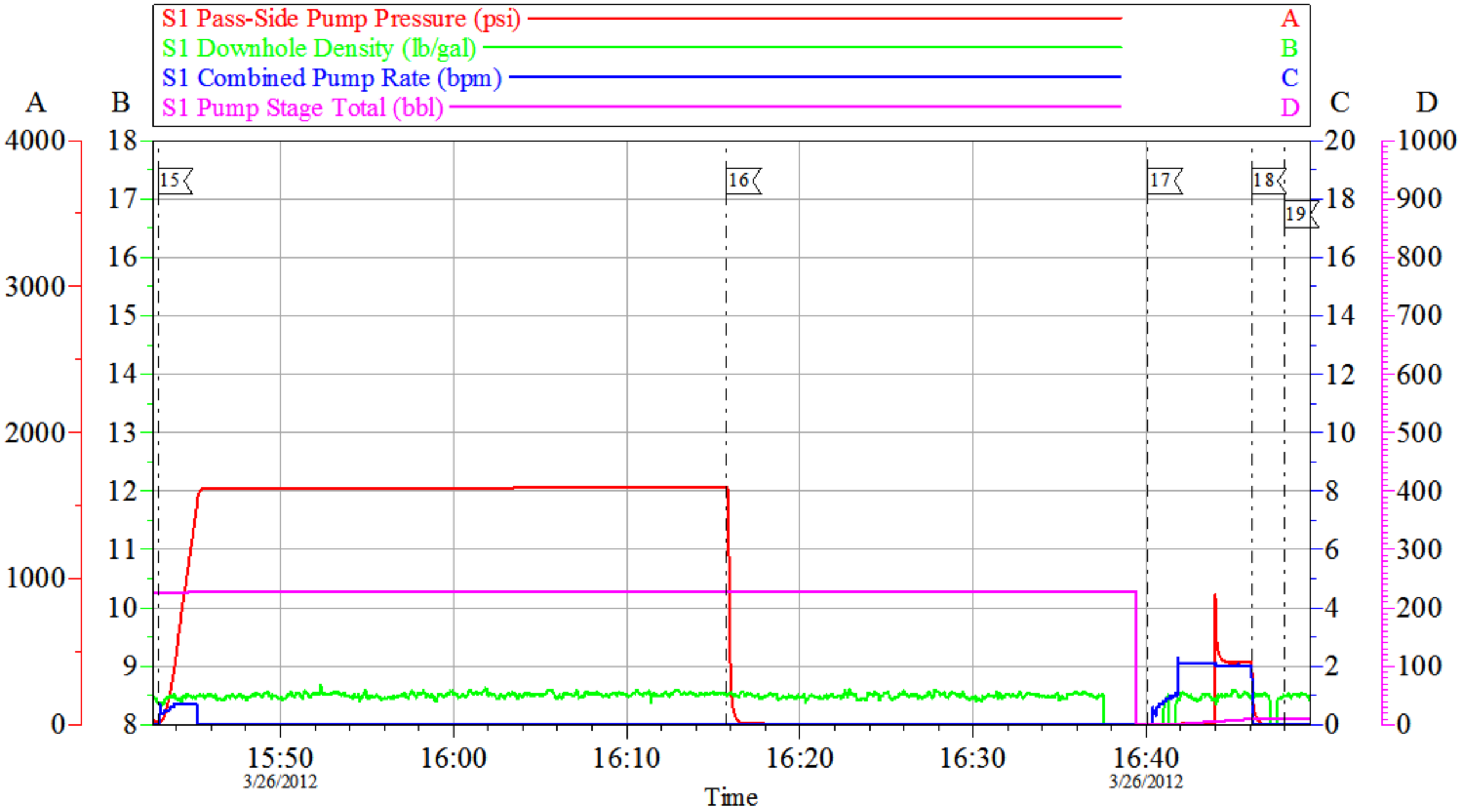
# *Cementing Job Log*

| | | # | | Stage | Total | Tubing | Casing | |
|---|---|---|---|---|---|---|---|---|
| Shutdown | 03/26/2012 17:57 | | | | | | | PER COMPANY REP, CREW TO WAIT 2 HOURS UNTIL 2000, MEASUREMENT WILL BE TAKEN AND CO REP WILL DECIDE IF ADDITIONAL TOP OUT NEEDS TO BE PUMPED |
| End Job | 03/26/2012 20:05 | | | | | | | OFFLINE CEMENT JOB, GAINED SHORT BURST OF RETURNS AT 50 BBLS AWAY ON LEAD CEMENT, LOST RETURNS IMMEDIATELY, GAINED RETURNS AGAIN AT 277 BBLS AWAY ON LEAD CEMENT AND MAINTAINED UNTIL SHUTDOWN TO DROP PLUG. |
| Post-Job Safety Meeting (Pre Rig-Down) | 03/26/2012 20:10 | | | | | | | ALL HES CEMENT CREW |
| Pre-Convoy Safety Meeting | 03/26/2012 21:15 | | | | | | | ALL HES CEMENT CREW |
| Crew Leave Location | 03/26/2012 22:00 | | | | | | | THANK YOU FOR USING HALLIBURTON CEMENTING, RYON NICKLE AND CREW |

# OXY - CC 697-04-57A

## OFFLINE SURFACE




Local Event Log

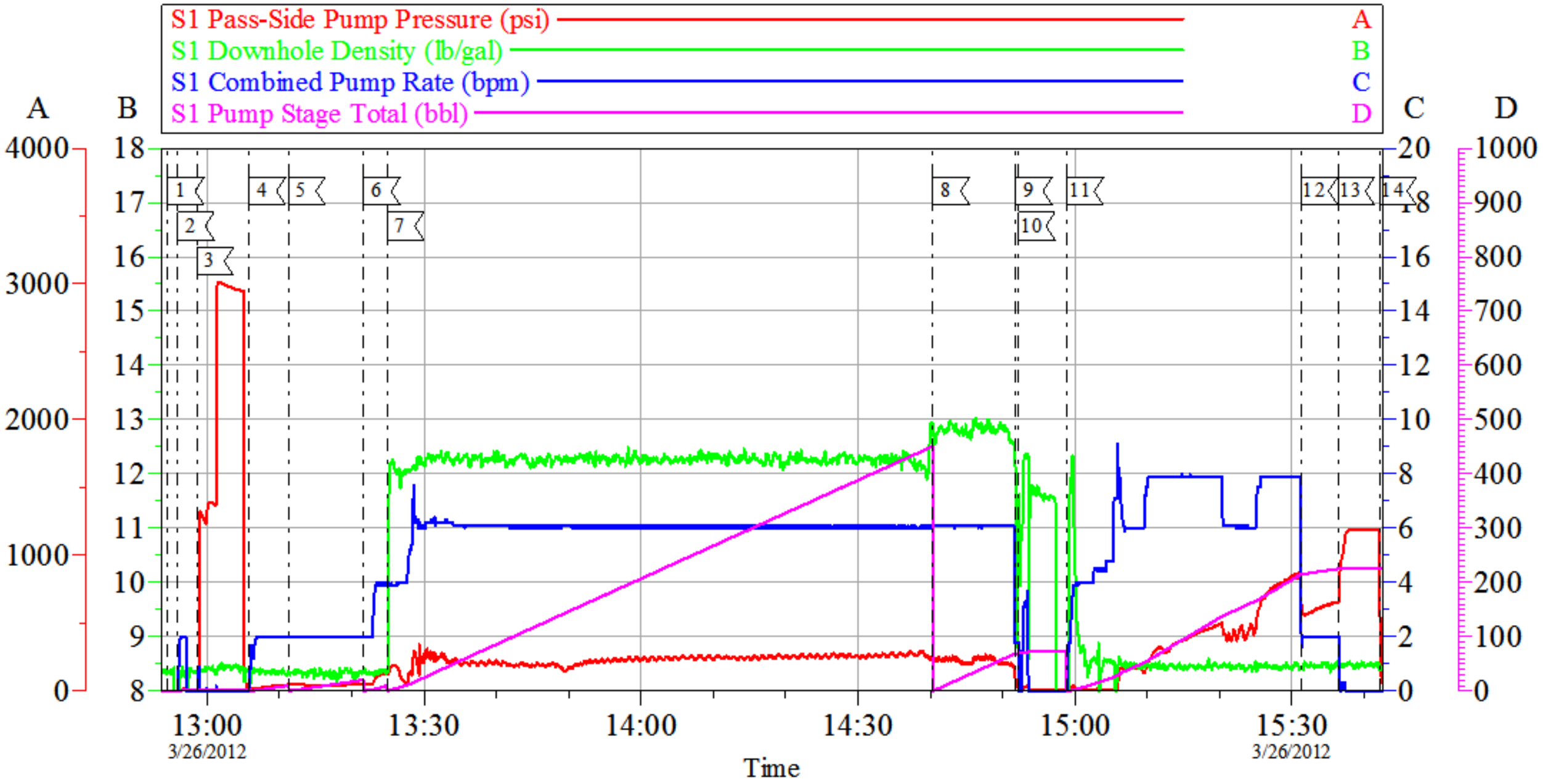
| | | | | | |
|---|---|---|---|---|---|
| 15 | PRESSURE UP CASING | 15:42:56 | 16 | RELEASE CASING PRESSURE | 16:15:46 |
| 17 | PUMP THROUGH PARASITE | 16:40:07 | 18 | SHUTDOWN | 16:46:05 |
| 19 | END JOB | 16:47:57 | | | |

| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 26-Mar-2012 | Sales Order #: | 9340335 |
| Well Description: | CC 697-04-57A | Job Type: | OFFLINE SURFACE | ADC Used: | YES |
| Company Rep: | VICTOR BENEVIDES | Cement Supervisor: | RYON NICKLE | Elite # / Operator: | E6 / STEVE BORSZICH |

OptiCem v6.4.10
26-Mar-12 17:03

# OXY - CC 697-04-57A

## OFFLINE SURFACE




Local Event Log

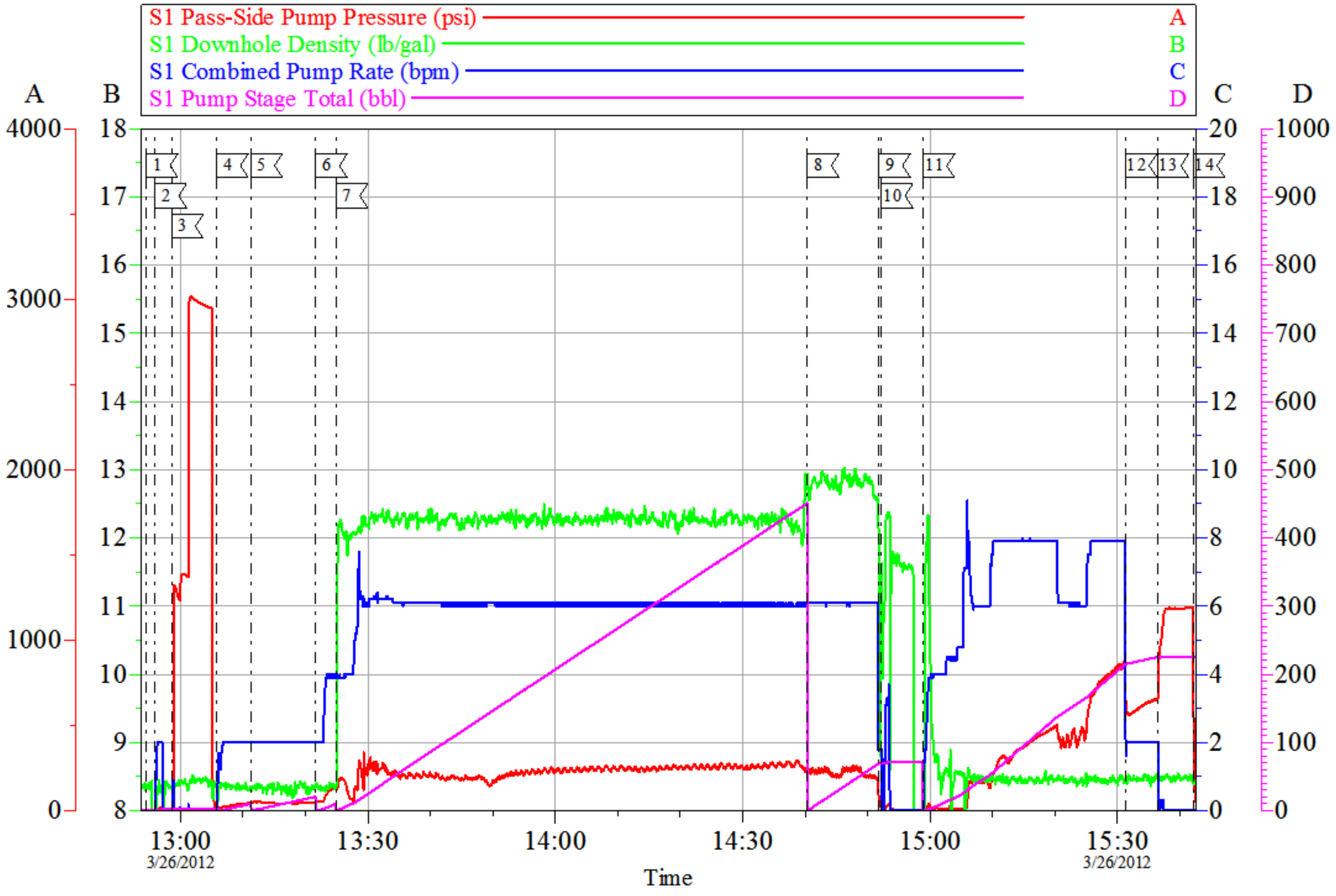
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | START JOB | 12:54:30 | 2 | FILL LINES | 12:55:55 | 3 | PRESSURE TEST | 12:58:34 |
| 4 | PUMP H2O SPACER | 13:05:47 | 5 | PUMP GEL SPACER | 13:11:15 | 6 | PUMP H2O SPACER | 13:21:38 |
| 7 | PUMP LEAD CEMENT | 13:24:55 | 8 | PUMP TAIL CEMENT | 14:40:22 | 9 | SHUTDOWN | 14:51:46 |
| 10 | DROP TOP PLUG | 14:52:11 | 11 | PUMP DISPLACEMENT | 14:58:52 | 12 | SLOW RATE | 15:31:15 |
| 13 | BUMP PLUG | 15:36:21 | 14 | CHECK FLOATS | 15:42:07 | | | |

| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 26-Mar-2012 | Sales Order #: | 9340335 |
| Well Description: | CC 697-04-57A | Job Type: | OFFLINE SURFACE | ADC Used: | YES |
| Company Rep: | VICTOR BENEVIDES | Cement Supervisor: | RYON NICKLE | Elite # / Operator: | E6 / STEVE BORSZICH |

OptiCem v6.4.10
26-Mar-12 17:01

# OXY - CC 697-04-57A

OFFLINE SURFACE

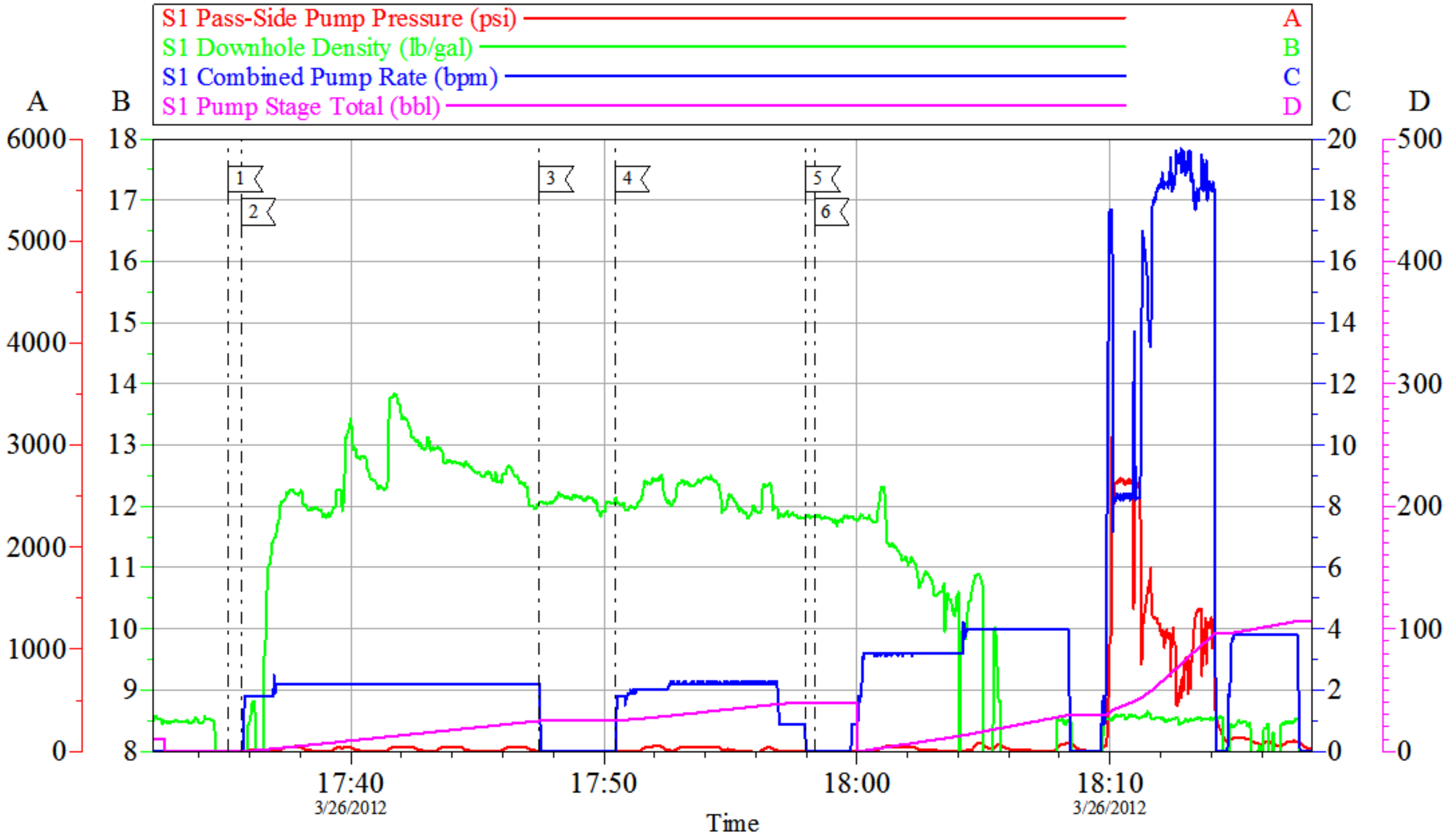



| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 26-Mar-2012 | Sales Order #: | 9340335 |
| Well Description: | CC 697-04-57A | Job Type: | OFFLINE SURFACE | ADC Used: | YES |
| Company Rep: | VICTOR BENEVIDES | Cement Supervisor: | RYON NICKLE | Elite # / Operator: | E6 / STEVE BORSZICH |

OptiCem v6.4.10
26-Mar-12 17:01

# OXY - CC 697-04-57A

TOP OUT




Local Event Log

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | START JOB | 17:35:10 | 2 | PUMP TOP OUT CEMENT | 17:35:40 | 3 | SHUTDOWN | 17:47:27 |
| 4 | PUMP REMAINDER OF TUM | 17:50:27 | 5 | SHUTDOWN | 17:57:58 | 6 | CLEAN LINES | 17:58:19 |

| | | |
|---|---|---|
| Customer: | Job Date: 26-Mar-2012 | Sales Order #: 9340335 |
| Well Description: | Job Type: | ADC Used: |
| Company Rep: | Cement Supervisor: | Elite # / Operator: |

OptiCem v6.4.10
26-Mar-12 18:34

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# Water Analysis Report

| | | | |
|---|---|---|---|
| **Company:** | OXY | **Date:** | 3/25/2012 |
| **Submitted by:** | RYON NICKLE | **Date Rec.:** | 3/25/2012 |
| **Attention:** | LAB | **S.O.#** | 93040335 |
| **Lease** | H&P 330 | **Job Type:** | SURFACE |
| **Well #** | CC 697-04-57A | | |

| | | | |
|---|---|---|---|
| **Specific Gravity** | *MAX* | 1 | |
| **pH** | *8* | 7 | |
| **Potassium (K)** | *5000* | 0 | Mg / L |
| **Hrdness** | *500* | 420 | Mg / L |
| **Iron (FE2)** | *300* | 3 | Mg / L |
| **Chlorides (Cl)** | *3000* | 250 | Mg / L |
| **Sulfates ($SO_4$)** | *1500* | <200 | Mg / L |
| **Temp** | *40-80* | 42 | Deg |
| **Total Dissolved Solids** | | 460 | Mg / L |

**Respectfully:** RYON NICKLE

**Title:** CEMENTING SUPERVISOR

**Location:** Grand Junction, CO

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# CUSTOMER SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
| 9340335 | 10 | 3/26/2012 |
| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| ADRIAN DEERMAN | | 05-045-20716 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-57A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| | Colorado | 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** | **3/26/2012** |
| **Survey Interviewer** | **The survey interviewer is the person who initiated the survey.** | **RYON NICKLE (HB22175)** |
| **Customer Participation** | **Did the customer partipcipate in this survey? (Y/N)** | **Yes** |
| **Customer Representative** | **Enter the Customer representative name** | **ADRIAN DEERMAN** |
| **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**

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# CUSTOMER SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
| 9340335 | 10 | 3/26/2012 |
| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| ADRIAN DEERMAN | | 05-045-20716 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-57A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| | Colorado | Garfield |

## *KEY PERFORMANCE INDICATORS*

| General | |
|---|---|
| **Survey Conducted Date**<br>The date the survey was conducted | 3/26/2012 |

| Cementing KPI Survey | |
|---|---|
| **Type of Job**<br>Select the type of job. (Cementing or Non-Cementing) | 0 |
| **Select the Maximum Deviation range for this Job**<br>What is the highest deviation for the job you just completed? This may not be the maximum well deviation. | Vertical |
| **Total Operating Time (hours)**<br>Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format. | 12 |
| **HSE Incident, Accident, Injury**<br>HSE Incident, Accident, Injury. This should be recordable incidents only. | No |
| **Was the job purpose achieved?**<br>Was the job delivered correctly as per customer agreed design? | Yes |
| **Operating Hours (Pumping Hours)**<br>Total number of hours pumping fluid on this job. Enter in decimal format. | 6 |
| **Customer Non-Productive Rig Time (hrs)**<br>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**<br>Type Of Rig (classification) Job Was Performed On | Drilling Rig (Portable) |
| **Number Of JSAs Performed**<br>Number Of Jsas Performed | 5 |
| **Number of Unplanned Shutdowns**<br>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 SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
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| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| ADRIAN DEERMAN | | 05-045-20716 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-57A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| | Colorado | Garfield |

| | |
|---|---|
| Primary Cement Job= Casing job, Liner job, or Tie-back job. | |
| **Did We Run Wiper Plugs?**<br>Did We Run Top And Bottom Casing Wiper Plugs? | Top |
| **Mixing Density of Job Stayed in Designed Density Range (0-100%)**<br>Density Range defined as +/- .20 ppg. Calculation: Total BBLs cment mixed at designed density divided by total BBLs of cement multiplied by 100 | 92.5 |
| **Was Automated Density Control Used?**<br>Was Automated Density Control (ADC) Used ? | Yes |
| **Pump Rate (percent) of Job Stayed At Designed Pump Rate**<br>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 | 92.5 |
| **Nbr of Remedial Sqz Jobs Rqd - Competition**<br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition | 0 |
| **Nbr of Remedial Plug Jobs Rqd - HES**<br>Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES | 0 |
| **Nbr of Remedial Sqz Jobs Rqd - HES**<br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES | 0 |