HALLIBURTON

# OXY GRAND JUNCTION EBUSINESS

**CC 697-04-65A**
**GRAND VALLEY**
**Garfield County , Colorado**

# Cement Surface Casing

**03-Mar-2012**

# Post Job Report

HALLIBURTON

# *Cementing Job Summary*

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

| | | | |
|---|---|---|---|
| **Sold To #:** 344034 | **Ship To #:** 344034 | **Quote #:** | **Sales Order #:** 9107604 |
| **Customer:** OXY GRAND JUNCTION EBUSINESS | | **Customer Rep:** Benevides, Victor | |
| **Well Name:** CC | **Well #:** 697-04-65A | | **API/UWI #:** 05-045-20722 |
| **Field:** GRAND VALLEY | **City (SAP):** ADDISON | **County/Parish:** Garfield | **State:** Colorado |
| **Lat:** N 39.549 deg. OR N 39 deg. 32 min. 55.716 secs. | | **Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.352 secs. | |
| **Contractor:** H&P 330 | **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:** **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 | Emp # |
|---|---|---|---|---|---|---|---|---|
| BROWN, TRAVIS A | 24.5 | 396848 | CARTER, ERIC Earl | 24.5 | 345598 | LINN, PAUL Andrew | 24.5 | 479143 |
| SIMINEO, JEROD M | 24.5 | 479954 | | | | | | |

## Equipment

| HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* | HES Unit # | *Distance-1 way* |
|---|---|---|---|---|---|---|---|
| 10567589C | 60 mile | 10867094 | 60 mile | 10897925 | 60 mile | 11259885 | 60 mile |
| 11808829 | 60 mile | | | | | | |

## Job Hours

| Date | *On Location Hours* | Operating Hours | Date | *On Location Hours* | Operating Hours | Date | *On Location Hours* | Operating Hours |
|---|---|---|---|---|---|---|---|---|
| 3/3/12 | 10 | 3 | 3/4/12 | 14.5 | 2 | | | |
| **TOTAL** | | | *Total is the sum of each column separately* | | | | | |

## Job

| | | | | | |
|---|---|---|---|---|---|
| **Formation Name** | | | | | |
| **Formation Depth (MD)** | **Top** 0 | **Bottom** | **2765 FT.** | | |
| **Form Type** | | **BHST** | | | |
| **Job depth MD** | 2765. ft | **Job Depth TVD** | 2765. ft | | |
| **Water Depth** | | **Wk Ht Above Floor** | N/A | | |
| **Perforation Depth (MD)** | *From* | **To** | | | |

## Job Times

| | Date | Time | Time Zone |
|---|---|---|---|
| **Called Out** | 03 - Mar - 2012 | 07:30 | MST |
| **On Location** | 03 - Mar - 2012 | 14:00 | MST |
| **Job Started** | 03 - Mar - 2012 | 20:48 | MST |
| **Job Completed** | 04 - Mar - 2012 | 12:59 | MST |
| **Departed Loc** | 04 - Mar - 2012 | 14:30 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OPEN HOLE | | | | 14.75 | | | | . | 2765. | | |
| SURFACE CASING | Unknown | | 9.625 | 8.921 | 36. | | J-55 | . | 2714. | | |

## 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” | 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* | |

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# *Cementing Job Summary*

| Fluid Data | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Stage/Plug #: 1** | | | | | | | | | |
| **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** | **bbl** | **8.33** | **.0** | **.0** | **4** | |
| **2** | **Gel Spacer** | | **20** | **bbl** | **.** | **.0** | **.0** | **4** | |
| **3** | **Fresh Water Spacer** | | **10** | **bbl** | **8.33** | **.0** | **.0** | **4** | |
| **4** | **HalCem Lead** | **HALCEM (TM) SYSTEM (452986)** | **1080.0** | **sacks** | **12.3** | **2.15** | **11.83** | **6.0** | **11.83** |
| | 11.83 Gal | FRESH WATER | | | | | | | |
| **5** | **VariCem Tail Cement** | **VARICEM (TM) CEMENT (452009)** | **170.0** | **sacks** | **12.8** | **2.07** | **10.67** | **6.0** | **10.67** |
| | 10.67 Gal | FRESH WATER | | | | | | | |
| **6** | **Fresh Water Displacement** | | **206.2** | **bbl** | **8.34** | **.0** | **.0** | **8.0** | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Displacement* | 206.2 | **Shut In: Instant** | | **Lost Returns** | YES | *Cement Slurry* | 631.9 | **Pad** | |
| **Top Of Cement** | SURFACE | **5 Min** | | **Cement Returns** | 10 | **Actual Displacement** | 206.2 | **Treatment** | |
| **Frac Gradient** | | **15 Min** | | **Spacers** | 40 | **Load and Breakdown** | | **Total Job** | **856.9** |

| *Rates* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Circulating* | *RIG* | | *Mixing* | 6 | *Displacement* | 8 | **Avg. Job** | 7 | | | | | |
| *Cement Left In Pipe* | **Amount** | ***46.9 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 #:** 9107604 |
| **Customer:** OXY GRAND JUNCTION EBUSINESS | | **Customer Rep:** Benevides, Victor | |
| **Well Name:** CC | **Well #:** 697-04-65A | | **API/UWI #:** 05-045-20722 |
| **Field:** GRAND VALLEY | **City (SAP):** ADDISON | **County/Parish:** Garfield | **State:** Colorado |
| **Legal Description:** | | | |
| **Lat:** N 39.549 deg. OR N 39 deg. 32 min. 55.716 secs. | | **Long:** W 108.23 deg. OR W -109 deg. 46 min. 11.352 secs. | |
| **Contractor:** H&P 330 | **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:** **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 | 03/03/2012 07:30 | | | | | | | |
| Depart Yard Safety Meeting | 03/03/2012 10:50 | | | | | | | ATTENDED BY ALL HES CREW |
| Crew Leave Yard | 03/03/2012 11:00 | | | | | | | |
| Arrive At Loc | 03/03/2012 14:00 | | | | | | | RIG RINNING CASING |
| Assessment Of Location Safety Meeting | 03/03/2012 14:30 | | | | | | | ATTENDED BY ALL HES CREW |
| Other | 03/03/2012 17:00 | | | | | | | SPOT EQUIPMENT |
| Pre-Rig Up Safety Meeting | 03/03/2012 17:20 | | | | | | | ATTENDED BY ALL HES CREW |
| Rig-Up Equipment | 03/03/2012 17:30 | | | | | | | |
| Pre-Job Safety Meeting | 03/03/2012 20:10 | | | | | | | ATTENDED BY ALL HES CREW, RIG CREW AND COMPANY REP |
| Start Job | 03/03/2012 20:48 | | | | | | | TP 2714', TD 2765', SJ 46.91', FC 2667.09', MW 9.1 PPG, CASING 9.625", 36#, J-55, 14.75" HOLE, 14 CENTRALIZERS |
| Other | 03/03/2012 20:48 | | 2 | 2 | | | 30.0 | FILL LINES |
| Test Lines | 03/03/2012 20:51 | | | | | | | PRESSURED UP TO 2820 PSI, NO SIGNS OF LEAKS |
| Pump Spacer 1 | 03/03/2012 20:55 | | 4 | 10 | | | 200.0 | FRESH WATER |
| Pump Spacer 2 | 03/03/2012 20:59 | | 4 | 20 | | | 210.0 | LGC SPACER |
| Pump Spacer 1 | 03/03/2012 21:04 | | 4 | 10 | | | 150.0 | FRESH WATER |

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# *Cementing Job Log*

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Lead Cement | 03/03/2012 21:08 | | 6 | 413.5 | | | 248.0 | 1080 SKS MIXED AT 12.3 PPG, 2.15 YIELD, 11.83 GL/SK |
| Pump Tail Cement | 03/03/2012 22:18 | | 6 | 62.7 | | | 195.0 | 170 SKS MIXED AT 12.8 PPG, 2.07 YIELD, 10.67 GL/SK |
| Shutdown | 03/03/2012 22:31 | | | | | | | |
| Drop Top Plug | 03/03/2012 22:32 | | | | | | | COMPANY REP VERIFIED THAT PLUG LAUNCHED |
| Pump Displacement | 03/03/2012 22:33 | | 8 | 126 | | | 330.0 | FRESH WATER |
| Slow Rate | 03/03/2012 22:51 | | 6 | 80.2 | | | 504.0 | |
| Bump Plug | 03/03/2012 23:05 | | | | | | 1050.0 | PLUG LANDED, NO CIRCULATION THROUGH OUT JOB |
| Check Floats | 03/03/2012 23:10 | | | | | | | FLOATS HELD |
| Pressure Up | 03/03/2012 23:13 | | | | | | 1550.0 | PRESSURE TEST CASING, PRESSURE HELD |
| Release Casing Pressure | 03/03/2012 23:44 | | | | | | | |
| Other | 03/03/2012 23:55 | | 1 | 10 | | | 115.0 | PUMP THROUGH PARASITE. SUGAR WATER |
| Pump Cement | 03/04/2012 01:13 | | 2 | 30.2 | | | | 86 SKS MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GL/SK |
| Shutdown | 03/04/2012 01:30 | | | | | | | CALLED FOR 500 SKS TOP OUT CEMENT AT COMPANY REP'S REQUEST |
| Pump Cement | 03/04/2012 03:39 | | 2 | 52.6 | | | | 150 SKS MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GL/SK |
| Shutdown | 03/04/2012 04:07 | | | | | | | |
| Pump Cement | 03/04/2012 06:35 | | 3 | 44.9 | | | | 128 SKS MIXED AT 12.5 PPG, 1/97 YIELD, 10.96 GL/SK |
| Shutdown | 03/04/2012 06:53 | | | | | | | |

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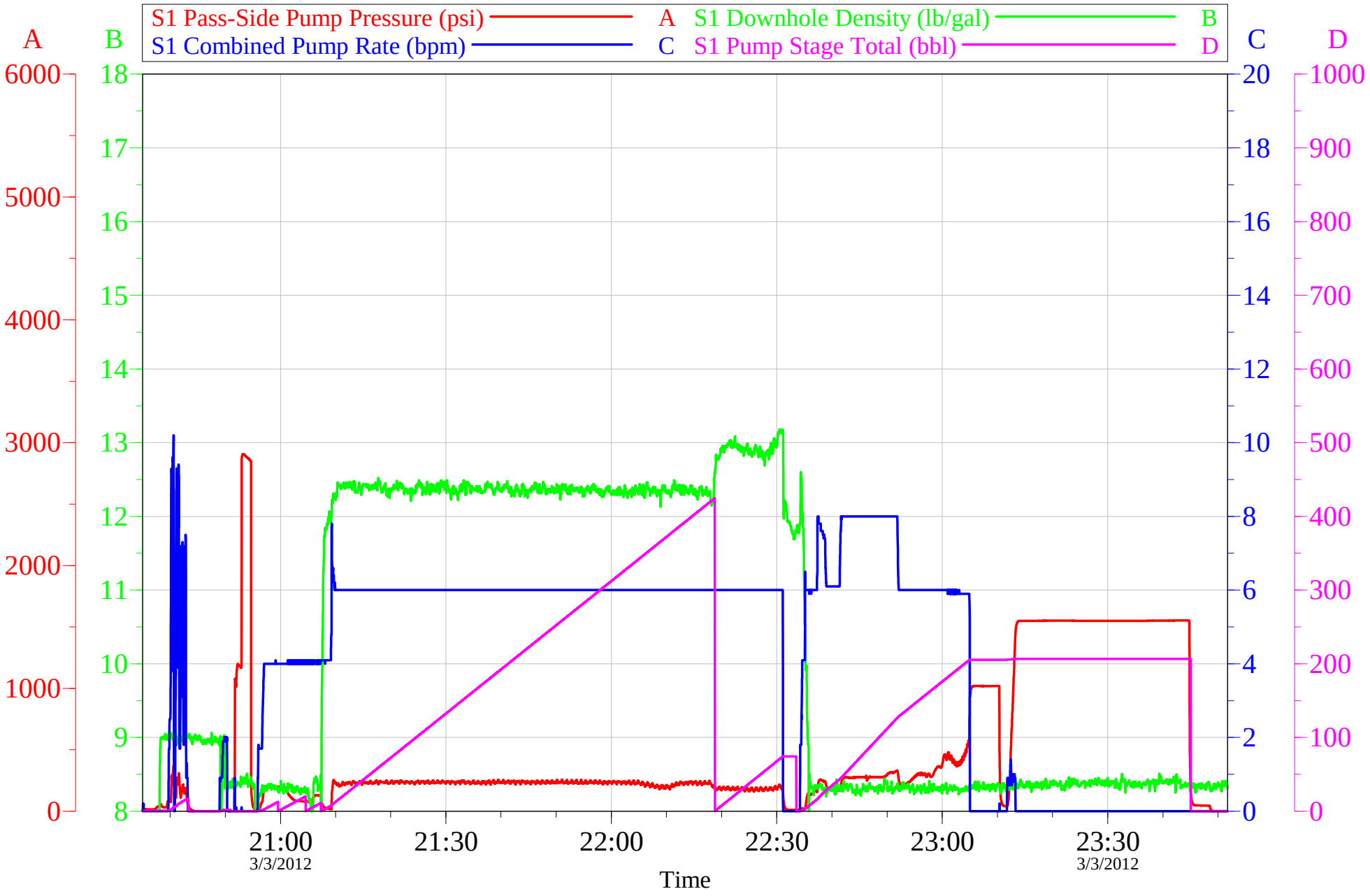
# *Cementing Job Log*

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|---|---|---|---|---|---|---|---|---|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Cement | 03/04/2012 12:27 | | 2 | 17 | | | | 80 SKS MIXED AT 12.5 PPG, 1.97 YIELD, 10.96 GL/SK, CEMENT TO SURFACE |
| Other | 03/04/2012 12:36 | | | | | | | HESITATE |
| Resume | 03/04/2012 12:40 | | 0.5 | 1.5 | | | | |
| Other | 03/04/2012 12:41 | | | | | | | HESITATE |
| Resume | 03/04/2012 12:46 | | 0.5 | 1.5 | | | | |
| Other | 03/04/2012 12:46 | | | | | | | HESITATE |
| Resume | 03/04/2012 12:52 | | 1 | 7 | | | | |
| Shutdown | 03/04/2012 12:58 | | | | | | | |
| End Job | 03/04/2012 12:59 | | | | | | | 10 BBLS CEMENT TO SURFACE, PIPE WAS NOT MOVED DURING JOB, |
| Post-Job Safety Meeting (Pre Rig-Down) | 03/04/2012 13:10 | | | | | | | ATTENDED BY ALL HES CREW |
| Rig-Down Equipment | 03/04/2012 13:20 | | | | | | | |
| Depart Location Safety Meeting | 03/04/2012 14:20 | | | | | | | ATTENDED BY ALL HES CREW |
| Crew Leave Location | 03/04/2012 14:30 | | | | | | | THANK YOU FOR USING HALLIBURTON CEMENT, ERIC CARTER AND CREW. |

# Oxy - CC 697-04-65A

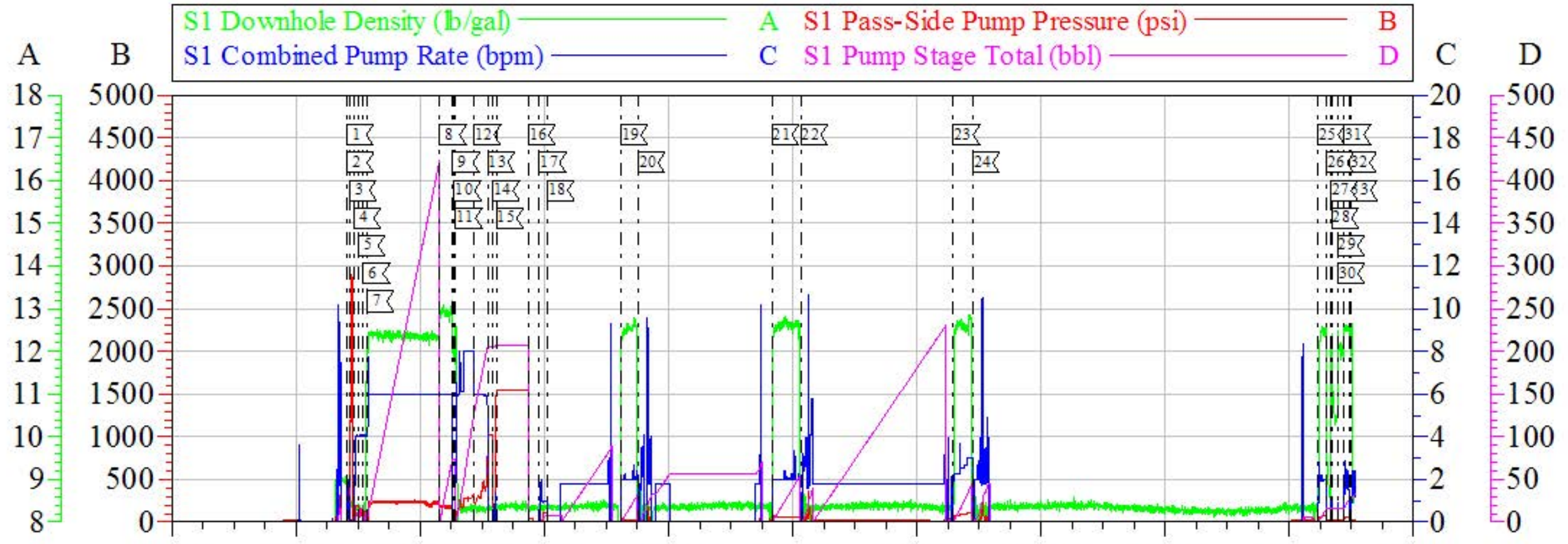
Surface




| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 03-Mar-2012 | Sales Order #: | 9107604 |
| Well Description: | CC 697-04-65A | Job Type: | Surface | ADC Used: | Yes |
| Company Rep: | Darryl Clark | Cement Supervisor: | Eric Carter | Elite #3 | Travis Brown |

OptiCem v6.4.9
17-Mar-12 11:46

# OXY-CC 697 04 65A
## 9.625" SURFACE



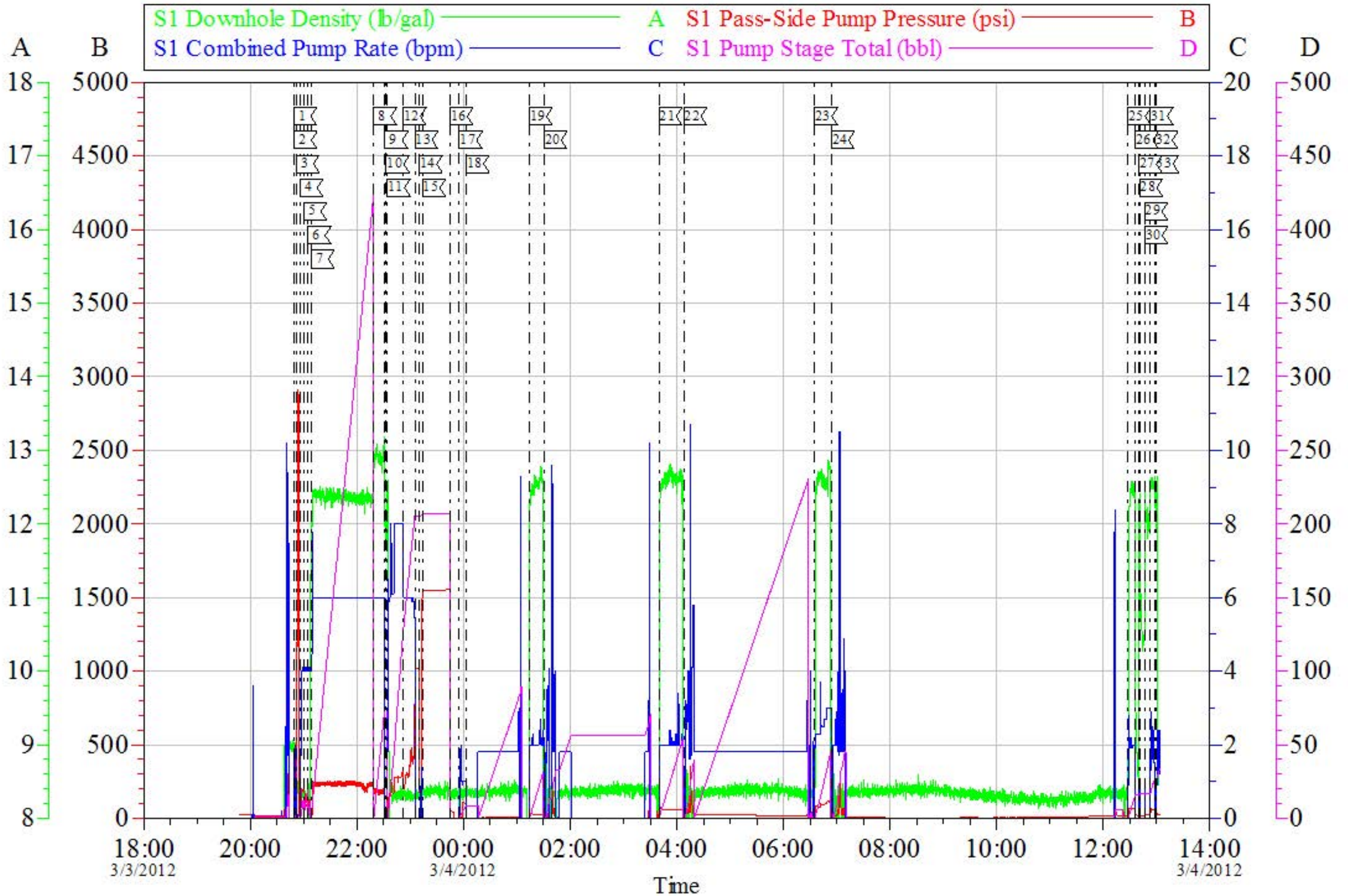

Local Event Log

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | START JOB | 3/3/2012 20:48:24 | 2 | FILL LINES | 3/3/2012 20:48:58 | 3 | TEST LINES | 3/3/2012 20:51:22 |
| 4 | PUMP H20 SPACER | 3/3/2012 20:55:35 | 5 | PUMP GEL SPACER | 3/3/2012 20:59:39 | 6 | PUMP H20 SPACER | 3/3/2012 21:04:28 |
| 7 | PUMP LEAD CEMENT | 3/3/2012 21:08:05 | 8 | PUMP TAIL CEMENT | 3/3/2012 22:18:40 | 9 | SHUTDOWN | 3/3/2012 22:31:18 |
| 10 | DROP TOP PLUG | 3/3/2012 22:32:53 | 11 | PUMP H20 DISPLACEMET | 3/3/2012 22:33:51 | 12 | SLOW RATE | 3/3/2012 22:51:46 |
| 13 | BUMP PLUG | 3/3/2012 23:05:00 | 14 | CHECK FLOATS | 3/3/2012 23:10:08 | 15 | PRESSURE UP CASING | 3/3/2012 23:13:35 |
| 16 | RELEASE CASING PRESSURE | 3/3/2012 23:44:32 | 17 | PUMP THROUGH PARASITE | 3/3/2012 23:55:04 | 18 | SHUTDOWN | 3/4/2012 00:02:49 |
| 19 | PUMP CEMENT | 3/4/2012 01:13:49 | 20 | SHUTDOWN | 3/4/2012 01:30:22 | 21 | PUMP CEMENT | 3/4/2012 03:39:54 |
| 22 | SHUTDWON | 3/4/2012 04:07:37 | 23 | PUMP CEMENT | 3/4/2012 06:35:09 | 24 | SHUTDWON | 3/4/2012 06:53:57 |
| 25 | PUMP CEMENT | 3/4/2012 12:27:52 | 26 | HESITATE | 3/4/2012 12:36:25 | 27 | RESUME | 3/4/2012 12:40:28 |
| 28 | HESITATE | 3/4/2012 12:41:04 | 29 | RESUME | 3/4/2012 12:46:36 | 30 | HESITATE | 3/4/2012 12:46:59 |
| 31 | RESUME | 3/4/2012 12:52:50 | 32 | SHUTDOWN | 3/4/2012 12:58:22 | 33 | END JOB | 3/4/2012 12:59:11 |

| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 03-Mar-2012 | Sales Order #: | 9107604 |
| Well Description: | CC 697-04-65A | Job Type: | SURFACE | ADC Used: | YES |
| Company Rep: | DARRYL CLARK | Cement Supervisor: | ERIC CARTER | Elite #/Operator: | 3/TRAVIS BROWN |

OptiCem v6.4.0
04-Mar-12 13:07

# OXY-CC 697 04 65A
## 9.625" SURFACE




| | | | | | |
|---|---|---|---|---|---|
| Customer: | OXY GRAND JUNCTION EBUSINESS | Job Date: | 03-Mar-2012 | Sales Order #: | 9107604 |
| Well Description: | CC 697-04-65A | Job Type: | SURFACE | ADC Used: | YES |
| Company Rep: | DARRYL CLARK | Cement Supervisor: | ERIC CARTER | Elite #/Operator: | 3/TRAVIS BROWN |

OptiCem v6.4.0
04-Mar-12 13:08

HALLIBURTON

# CUSTOMER SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
| 9107604 | 10 | 3/4/2012 |
| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| DARRYL CLARK | | 05-045-20722 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-65A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| No | 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** | **3/4/2012** |
| **Survey Interviewer** | **The survey interviewer is the person who initiated the survey.** | **ERIC CARTER (HX15491)** |
| **Customer Participation** | **Did the customer partipcipate in this survey? (Y/N)** | **Yes** |
| **Customer Representative** | **Enter the Customer representative name** | **DARRYL CLARK** |
| **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**

HALLIBURTON

# CUSTOMER SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
| 9107604 | 10 | 3/4/2012 |
| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| DARRYL CLARK | | 05-045-20722 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-65A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| No | Colorado | Garfield |

## *KEY PERFORMANCE INDICATORS*

| General | |
|---|---|
| **Survey Conducted Date**<br>The date the survey was conducted | 3/4/2012 |

| 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. | 9.5 |
| **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. | 7.5 |
| **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 |

HALLIBURTON

# CUSTOMER SURVEY

| | | |
|---|---|---|
| **Sales Order #:** | **Line Item:** | **Survey Conducted Date:** |
| 9107604 | 10 | 3/4/2012 |
| **Customer:** | | **Job Type (BOM):** |
| OXY GRAND JUNCTION EBUSINESS | | CMT SURFACE CASING BOM |
| **Customer Representative:** | | **API / UWI: (leave blank if unknown)** |
| DARRYL CLARK | | 05-045-20722 |
| **Well Name:** | | **Well Number:** |
| CC | | 697-04-65A |
| **Well Type:** | **Well Country:** | |
| Development Well | United States of America | |
| **H2S Present:** | **Well State:** | **Well County:** |
| No | 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 | 98 |
| **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 | 98 |
| **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 |