
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-20A
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
23-Oct-2011

Post Job Report

The Road to Excellence Starts with Safety

| | | | |
|--|--|-------------------------|------------------------|
| Sold To #: 344034 | Ship To #: 2885913 | Quote #: | Sales Order #: 8551933 |
| Customer: OXY GRAND JUNCTION EBUSINESS | Customer Rep: VILLEGAS, ALEX | | |
| Well Name: CC | Well #: 697-05-20A | API/UWI #: 05-045-20369 | |
| Field: GRAND VALLEY | City (SAP): ADDISON | County/Parish: Garfield | State: Colorado |
| Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.488 secs. | Long: W 108.242 deg. OR W -109 deg. 45 min. 27.684 secs. | | |
| Contractor: H&P 353 | Rig/Platform Name/Num: H&P 353 | | |
| Job Purpose: Cement Surface Casing | | | |
| Well Type: Development Well | Job Type: Cement Surface Casing | | |
| Sales Person: HIMES, JEFFREY | Srv Supervisor: LEIST, JAMES | MBU ID Emp #: 362787 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------|---------|--------|----------------|---------|--------|--------------------|---------|--------|
| ANDERSON, ADAM S | 9 | 456683 | LEIST, JAMES R | 9 | 362787 | SALAZAR, PAUL Omar | 9 | 445614 |
| SINCLAIR, DAN J | 9 | 338784 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10248065 | 120 mile | 10867322 | 120 mile | 10897891 | 120 mile | 11259882 | 120 mile |
| 11560046 | 120 mile | 11562538 | 120 mile | 6543 | 120 mile | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|----------|-------------------|-----------------|----------|-------------------|-----------------|------|-------------------|-----------------|
| 10-22-11 | 16 | 7 | 10-23-11 | 4 | 2 | | | |

TOTAL Total is the sum of each column separately

Job

| Formation Name | Formation Depth (MD) | Top | Bottom | Form Type | Job depth MD | Job Depth TVD | Water Depth | Perforation Depth (MD) | From | To | Job Times | Date | Time | Time Zone |
|----------------|----------------------|-----|--------|-----------|--------------|---------------|-------------|------------------------|------|----|---------------|-----------------|-------|-----------|
| | | | | BHST | 2695. ft | 2695. ft | | | | | Called Out | 22 - Oct - 2011 | 01:30 | MST |
| | | | | | | | | | | | On Location | 22 - Oct - 2011 | 07:00 | MST |
| | | | | | | | | | | | Job Started | 22 - Oct - 2011 | 14:01 | MST |
| | | | | | | | | | | | Job Completed | 23 - Oct - 2011 | 03:41 | MST |
| | | | | | | | | | | | Departed Loc | 23 - Oct - 2011 | 06:00 | 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 | | |

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 | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | 9.625 | 1 | |
| 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

| 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 |
|---------|------------|------------|-----|---------|------------------------|---------------------------|------------------|--------------|------------------------|
|---------|------------|------------|-----|---------|------------------------|---------------------------|------------------|--------------|------------------------|

| 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 | 8.33 | .0 | .0 | 4 | |
| 2 | Gel Spacer | | 20.00 | bbl | . | .0 | .0 | 4 | |
| 3 | Water Spacer | | 20.00 | bbl | . | .0 | .0 | 4 | |
| 4 | Lead Cement | VERSACEM (TM) SYSTEM (452010) | 1069.0 | sacks | 12.3 | 2.33 | 12.62 | 6.5 | 12.62 |
| | | 12.62 Gal | FRESH WATER | | | | | | |
| 5 | Tail Cement | VERSACEM (TM) SYSTEM (452010) | 177.0 | sacks | 12.8 | 2.07 | 10.67 | 6.5 | 10.67 |
| | | 10.67 Gal | FRESH WATER | | | | | | |
| 6 | Displacement | | 204.00 | bbl | 8.4 | .0 | .0 | 6.5 | |
| 7 | Topout Cement | HALCEM (TM) SYSTEM (452986) | 455.0 | sacks | 12.5 | 1.97 | 10.96 | 3 | 10.96 |
| | | 10.96 Gal | FRESH WATER | | | | | | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 204 | Shut In: Instant | | Lost Returns | 772 | Cement Slurry | 508 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 2 | Actual Displacement | 204 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 60 | Load and Breakdown | | Total Job | 772 |
| Rates | | | | | | | | | |
| Circulating | | Mixing | 6.5 | Displacement | 6.5 | Avg. Job | 6.5 | | |
| 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

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|---|----------------------------|---|-------------------------------|
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| Well Name: CC | Well #: 697-05-20A | API/UWI #: 05-045-20369 | |
| Field: GRAND VALLEY | City (SAP): ADDISON | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
| Lat: N 39.555 deg. OR N 39 deg. 33 min. 16.488 secs. | | Long: W 108.242 deg. OR W -109 deg. 45 min. 27.684 secs. | |
| Contractor: H&P 353 | | Rig/Platform Name/Num: H&P 353 | |
| Job Purpose: Cement Surface Casing | | | Ticket Amount: |
| Well Type: Development Well | | Job Type: Cement Surface Casing | |
| Sales Person: HIMES, JEFFREY | | Srvc Supervisor: LEIST, JAMES | MBU ID Emp #: 362787 |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 10/22/2011 01:30 | | | | | | | |
| Pre-Convoy Safety Meeting | 10/22/2011 03:30 | | | | | | | WITH ALL HES PERSONNEL |
| Arrive At Loc | 10/22/2011 07:00 | | | | | | | |
| Pre-Rig Up Safety Meeting | 10/22/2011 07:15 | | | | | | | WITH ALL ON HES PERSONNEL |
| Rig-Up Completed | 10/22/2011 08:00 | | | | | | | |
| Pre-Job Safety Meeting | 10/22/2011 13:45 | | | | | | | WITH ALL ON LOCATION PERSONNEL, RIG CIRULATED BOTTOMS UP NO CIRULATION THROUGHOUT JOB |
| Start Job | 10/22/2011 14:03 | | | | | | | TP-2695 FT.9.625 J-55 36#, TD-2715 FT., S.J.-45, HOLE- 14 3/4 |
| Pressure Test | 10/22/2011 14:05 | | | | | | | 2687 PSI |
| Pump Spacer | 10/22/2011 14:10 | | 4 | 20 | | | 38.0 | FRESH WATER |
| Pump Spacer | 10/22/2011 14:14 | | 4 | 20 | | | 40.0 | GEL SPACER |
| Pump Spacer | 10/22/2011 14:20 | | 4 | 20 | | | 40.0 | FRESH WATER |
| Pump Lead Cement | 10/22/2011 14:26 | | 6.5 | 443 | | | 150.0 | 1069 SKS, 1`2.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK, TUFF FIBER MIX ON FLY |
| Pump Tail Cement | 10/22/2011 16:04 | | 6.5 | 65 | | | 180.0 | 177 SKS, 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK |
| Shutdown | 10/22/2011 16:16 | | | | | | | TO DROP TOP PLUG |

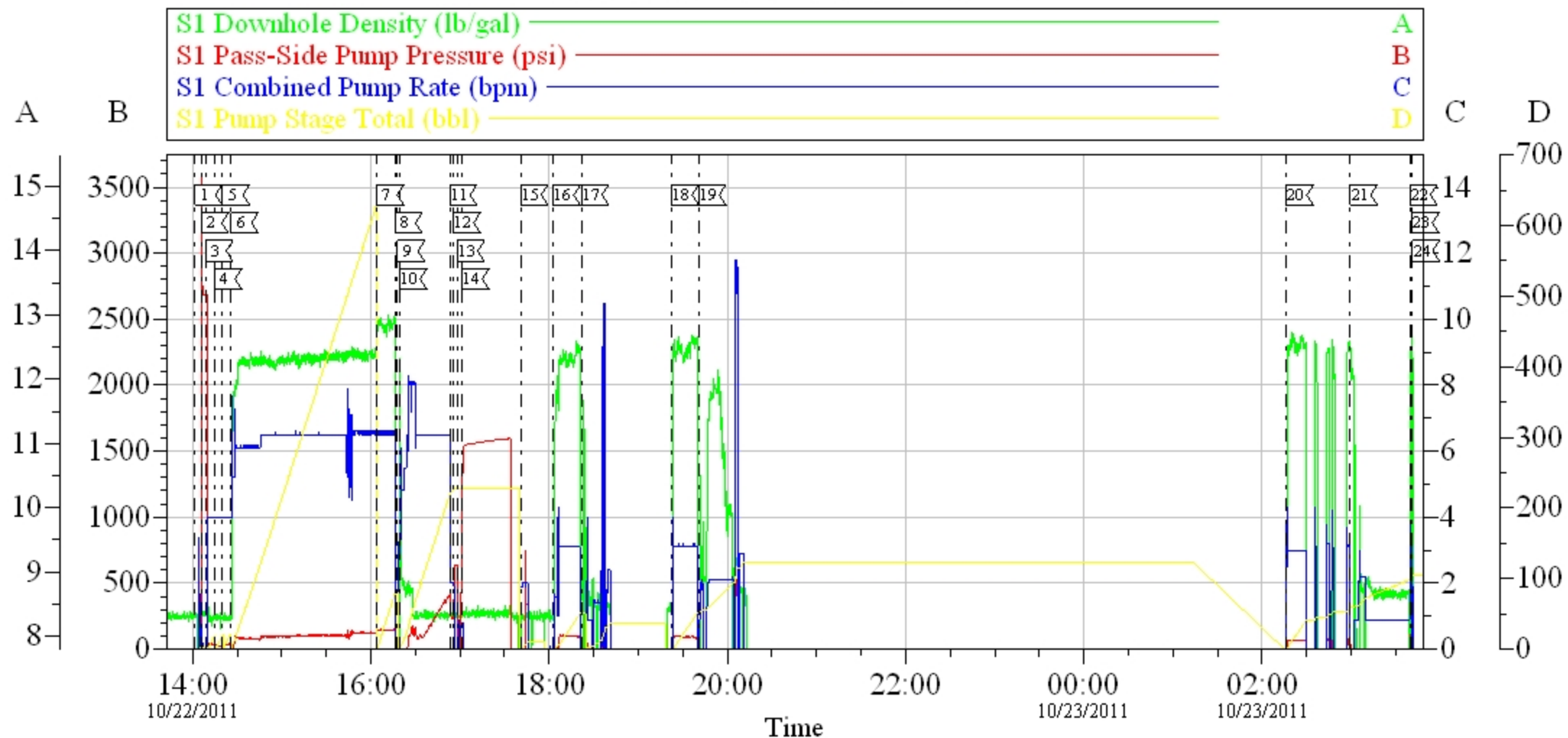
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|-----------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Drop Top Plug | 10/22/2011 16:17 | | | | | | | AWAY |
| Pump Displacement | 10/22/2011 16:18 | | 6.5 | 204 | | | 420.0 | FRESH WATER |
| Slow Rate | 10/22/2011 16:53 | | 2 | 194 | | | 280.0 | TO BUMP PLUG |
| Bump Plug | 10/22/2011 16:55 | | 2 | 204 | | | 280.0 | PLUG BUMPED |
| Check Floats | 10/22/2011 16:58 | | | | | | 760.0 | HOLDING |
| Other | 10/22/2011 17:01 | | | | | | 1573.0 | CASING TEST 1573 PSI FOR 30 MIN. HELD |
| Other | 10/22/2011 17:41 | | 2 | 10 | | | 600.0 | PUMP PARISITE STRING WITH SUGAR WATER |
| Pump Cement | 10/22/2011 18:02 | | 3 | 50 | | | 120.0 | 142 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK |
| Shutdown | 10/22/2011 18:21 | | | | | | | |
| Pump Cement | 10/22/2011 19:22 | | 3 | 50 | | | 120.0 | 142 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, WAIT ON TOPOUT TRUCK TO ARRIVE FROM HES |
| Shutdown | 10/22/2011 19:40 | | | | | | | |
| Pump Cement | 10/23/2011 02:16 | | 3 | 50 | | | 115.0 | 142 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, CMT TO SURFACE BUT FELL BACK |
| Shutdown | 10/23/2011 02:59 | | | | | | | |
| Pump Cement | 10/23/2011 03:39 | | 3 | 11.5 | | | 115.0 | 33 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, CMT TO SURFACE |
| Shutdown | 10/23/2011 03:41 | | | | | | | |
| End Job | 10/23/2011 03:41 | | | | | | | |
| Pre-Rig Down Safety Meeting | 10/23/2011 04:00 | | | | | | | WITH ALL HES PERSONNEL |
| Rig-Down Completed | 10/23/2011 05:45 | | | | | | | |
| Pre-Convoy Safety Meeting | 10/23/2011 05:50 | | | | | | | WITH ALL HES PERSONNEL |

Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|----------------------|---------------------|----------|---------------------|---------------|-------|------------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Comment | 10/23/2011 05:50 | | | | | | | THANKYOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW |

OXY

SURFACE CASING/TOP OUTS



| Local Event Log | | | | | |
|-----------------|-----------------|---------------------|----|-------------------|---------------------|
| 1 | START JOB | 10/22/2011 14:01:32 | 2 | PRESSURE TEST | 10/22/2011 14:05:57 |
| 3 | PUMP H2O SPACER | 10/22/2011 14:08:50 | 4 | PUMP GEL SPACER | 10/22/2011 14:14:51 |
| 5 | PUMP H2O SPACER | 10/22/2011 14:20:03 | 6 | PUMP LEAD CMT | 10/22/2011 14:25:51 |
| 7 | PUMP TAIL CMT | 10/22/2011 16:04:00 | 8 | SHUTDOWN | 10/22/2011 16:16:16 |
| 9 | DROP TOP PLUG | 10/22/2011 16:17:55 | 10 | PUMP DISPLACEMENT | 10/22/2011 16:19:18 |
| 11 | SLOW RATE | 10/22/2011 16:53:06 | 12 | BUMP PLUG | 10/22/2011 16:55:24 |
| 13 | CHECK FLOATS | 10/22/2011 16:58:11 | 14 | CASING TEST | 10/22/2011 17:01:12 |
| 15 | PUMP PARISITE | 10/22/2011 17:41:02 | 16 | PUMP TOP OUT 1 | 10/22/2011 18:02:52 |
| 17 | SHUTDOWN | 10/22/2011 18:21:52 | 18 | PUMP TOPOUT2 | 10/22/2011 19:22:34 |
| 19 | SHUTDOWN | 10/22/2011 19:40:52 | 20 | PUMP TOPOUT 3 | 10/23/2011 02:16:27 |
| 21 | SHUTDOWN | 10/23/2011 02:59:30 | 22 | PUMP TOP OUT 4 | 10/23/2011 03:39:38 |
| 23 | SHUTDOWN | 10/23/2011 03:41:05 | 24 | END JOB | 10/23/2011 03:41:09 |

Customer: OXY
Well Description: CC 697-05-20A
Company Rep: ALAX VILLEGAS

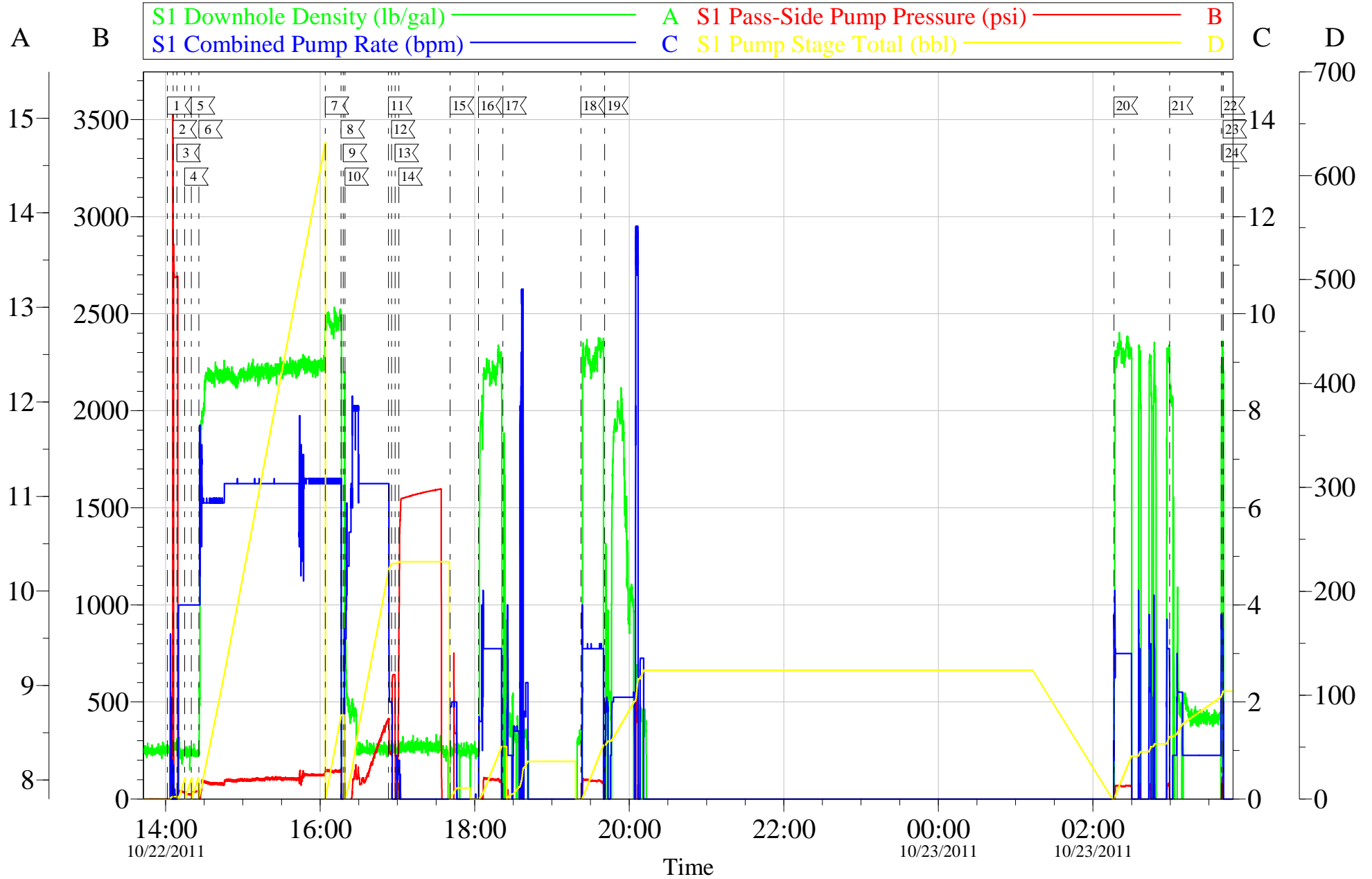
Job Date: 22-Oct-2011
Job Type: SURFACE
Cement Supervisor: JAMES LEIST

Sales Order #: 8551933
ADC Used: YES
Elite #5 PAUL SALAZAR

OptiCern v6.4.9
23-Oct-11 03:59

OXY

SURFACE CASING/TOP OUTS



Customer: OXY
Well Description: CC 697-05-20A
Company Rep: ALAX VILLEGAS

Job Date: 22-Oct-2011
Job Type: SURFACE
Cement Supervisor: JAMES LEIST

Sales Order #: 8551933
ADC Used: YES
Elite #:5 PAUL SALAZAR

OptiCem v6.4.9
23-Oct-11 03:59

| | | |
|--|--|--|
| Sales Order #: 8551933 | Line Item: 10 | Survey Conducted Date: 10/23/2011 |
| Customer: OXY GRAND JUNCTION EBUSINESS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: ALAX VILLEGAS | | API / UWI: (leave blank if unknown) 05-045-20369 |
| Well Name: CC | | Well Number: 697-05-20A |
| 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 | 10/23/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | JAMES LEIST (HX18202) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | ALAX VILLEGAS |
| 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 |
|---------------------------|

| | | |
|--|--|--|
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| Customer Representative: ALAX VILLEGAS | | API / UWI: (leave blank if unknown) 05-045-20369 |
| Well Name: CC | | Well Number: 697-05-20A |
| 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 | 10/23/2011 |
| The date the survey was conducted | |

| Cementing KPI Survey | |
|---|-------------------------|
| Type of Job | 0 |
| Select the type of job. (Cementing or Non-Cementing) | |
| Select the Maximum Deviation range for this Job | Deviated |
| What is the highest deviation for the job you just completed? This may not be the maximum well deviation. | |
| Total Operating Time (hours) | 11 |
| Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format. | |
| HSE Incident, Accident, Injury | No |
| HSE Incident, Accident, Injury. This should be recordable incidents only. | |
| Was the job purpose achieved? | Yes |
| Was the job delivered correctly as per customer agreed design? | |
| Operating Hours (Pumping Hours) | 9 |
| Total number of hours pumping fluid on this job. Enter in decimal format. | |
| Customer Non-Productive Rig Time (hrs) | 0 |
| 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. | |
| Type of Rig Classification Job Was Performed | Drilling Rig (Portable) |
| Type Of Rig (classification) Job Was Performed On | |
| Number Of JSAs Performed | 4 |
| Number Of Jsas Performed | |
| Number of Unplanned Shutdowns | 0 |
| Unplanned shutdown is when injection stops for any period of time. | |
| Was this a Primary Cement Job (Yes / No) | Yes |

| | | |
|--|--|--|
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| Well Name: CC | | Well Number: 697-05-20A |
| 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 | 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 |