
OXY GRAND JUNCTION EBUSINESS

**CC 697-09-39
GRAND VALLEY
Garfield County , Colorado**

**Cement Surface Casing
05-Jul-2011**

Job Site Documents

The Road to Excellence Starts with Safety

| | | | | | | | |
|---|--|-----------------------|------------------------------------|--|--|-------------------------|--|
| Sold To #: 344034 | | Ship To #: 2825581 | | Quote #: | | Sales Order #: 8299205 | |
| Customer: OXY GRAND JUNCTION EBUSINESS | | | | Customer Rep: Benevides, Victor | | | |
| Well Name: CC | | | Well #: 697-09-39 | | | API/UWI #: 05-045-18139 | |
| Field: GRAND VALLEY | | City (SAP): PARACHUTE | | County/Parish: Garfield | | State: Colorado | |
| Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.241 secs. | | | | Long: W 108.222 deg. OR W -109 deg. 46 min. 40.361 secs. | | | |
| Contractor: H&P Drilling | | | Rig/Platform Name/Num: H&P 330 | | | | |
| Job Purpose: Cement Surface Casing | | | | | | | |
| Well Type: Development Well | | | Job Type: Cement Surface Casing | | | | |
| Sales Person: ROYSTER, JACOB | | | Srvs Supervisor: TRIPLETT, MICHEAL | | | MBU ID Emp #: 447908 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------------------|---------|--------|----------------------------|---------|--------|------------------------|---------|--------|
| DANIEL, EVERETT Dean | 10 | 337325 | HAYES, DIRK A | 9 | 336768 | SINGLETON, AUSTIN W | 10 | 487406 |
| TRIPLETT, MICHEAL Anthony | 10 | 447908 | WEAVER, CARLTON Russell | 10 | 457698 | WINKER, STEVEN | 9 | 478776 |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10567589C | 120 mile | 10592964 | 120 mile | 10744549 | 120 mile | 10857016 | 120 mile |
| 10938658 | 120 mile | 10938665 | 120 mile | 10951246 | 120 mile | 10988978 | 120 mile |
| 10995027 | 120 mile | | | | | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 07/05/2011 | 10 | 3.5 | | | | | | |

TOTAL Total is the sum of each column separately

Job

| Formation Name | Job | Date | Time | Time Zone |
|------------------------|------------|-------------------|-----------------|---|
| Formation Depth (MD) | Top Bottom | Called Out | 05 - Jul - 2011 | 02:00 MST |
| Form Type | BHST | On Location | 05 - Jul - 2011 | 08:00 MST |
| Job depth MD | 2740. ft | Job Depth TVD | 2740. ft | Job Started 05 - Jul - 2011 12:35 MST |
| Water Depth | | Wk Ht Above Floor | 4. ft | Job Completed 05 - Jul - 2011 16:08 MST |
| Perforation Depth (MD) | From To | Departed Loc | 05 - Jul - 2011 | 18:00 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 | | | |
| Float Shoe | | | | | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | | | | | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| 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 Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
|-----------------|------------|-----|---------|------------------------|---------------------------|------------------|--------------|------------------------|
| Fluid # | Stage Type | | | | | | | |

| | | | | | | | | | |
|--|---------------|-------------------------------|--------|-----------------------------------|------|---------------------|-------|-----------|-------|
| 1 | Water Spacer | | 20.00 | bbl | 8.33 | .0 | .0 | .0 | |
| 2 | Gel Spacer | | 20.00 | bbl | . | .0 | .0 | .0 | |
| 3 | Water Spacer | | 20.00 | bbl | . | .0 | .0 | .0 | |
| 4 | Lead Cement | VERSACEM (TM) SYSTEM (452010) | 1050.0 | sacks | 12.3 | 2.33 | 12.62 | | 12.62 |
| | 12.62 Gal | FRESH WATER | | | | | | | |
| 5 | Tail Cement | VERSACEM (TM) SYSTEM (452010) | 169.0 | sacks | 12.8 | 2.07 | 10.67 | | 10.67 |
| | 10.67 Gal | FRESH WATER | | | | | | | |
| 6 | Displacement | | 208.00 | bbl | . | .0 | .0 | .0 | |
| 7 | Topout Cement | HALCEM (TM) SYSTEM (452986) | | sacks | 12.5 | 1.97 | 10.96 | | 10.96 |
| | 10.96 Gal | FRESH WATER | | | | | | | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 206.8 | Shut In: Instant | | Lost Returns | 210 | Cement Slurry | 498 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 120 | Actual Displacement | | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 60 | Load and Breakdown | | Total Job | 765 |
| Rates | | | | | | | | | |
| Circulating | 6 | Mixing | 6 | Displacement | 6 | Avg. Job | 6 | | |
| Cement Left In Pipe | Amount | 44.45 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 | | | | | |

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| | | | |
|--|------------------------------|---|-------------------------------|
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| Field: GRAND VALLEY | City (SAP): PARACHUTE | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
| Lat: N 39.535 deg. OR N 39 deg. 32 min. 6.241 secs. | | Long: W 108.222 deg. OR W -109 deg. 46 min. 40.361 secs. | |
| Contractor: H&P Drilling | | 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: ROYSTER, JACOB | | Srv Supervisor: TRIPLETT, MICHEAL | MBU ID Emp #: 447908 |

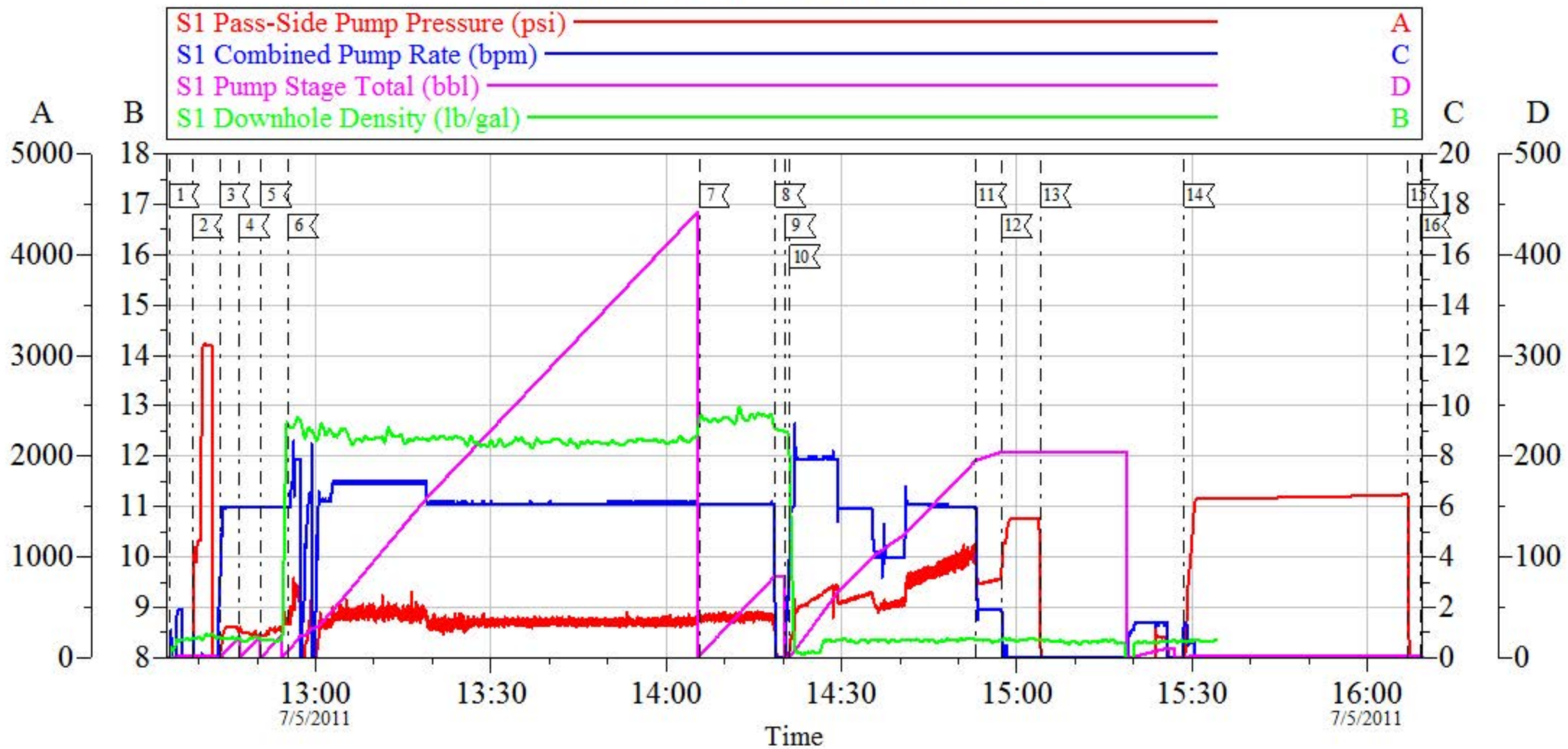
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 07/05/2011 02:20 | | | | | | | |
| Pre-Convoy Safety Meeting | 07/05/2011 05:00 | | | | | | | |
| Crew Leave Yard | 07/05/2011 05:15 | | | | | | | |
| Arrive At Loc | 07/05/2011 08:00 | | | | | | | |
| Assessment Of Location Safety Meeting | 07/05/2011 08:05 | | | | | | | |
| Other | 07/05/2011 08:15 | | | | | | | SPOT EQUIPMENT, 1 RCM PUMP TRUCK |
| Pre-Rig Up Safety Meeting | 07/05/2011 08:30 | | | | | | | GO OVER JSA AND HAVE CREW SIGN |
| Rig-Up Equipment | 07/05/2011 08:40 | | | | | | | |
| Pre-Job Safety Meeting | 07/05/2011 12:15 | | | | | | | GO OVER JOB PROCEDURES AND SAFETY INFORMATION |
| Start Job | 07/05/2011 12:34 | | | | | | | TD:2740', TP:2720', SJ:44.45', MW:9.1, CASING: 9.625 36#, OH: 14.75 |
| Test Lines | 07/05/2011 12:38 | | | | | | 3000.0 | PRESSURE TEST PUMPS AND LINES STARTED AT PSI AND ENDED AT PSI, LOST PSI IN TWO MINUTES. |
| Pump Spacer 1 | 07/05/2011 12:43 | | 6 | 20 | | | 317.0 | FRESH WATER |
| Pump Spacer 2 | 07/05/2011 12:46 | | 6 | 20 | | | 250.0 | LGC SPACER, 2.5 GALLONS PER 10BBLs. |
| Pump Spacer 3 | 07/05/2011 12:50 | | 6 | 20 | | | 245.0 | FRESH WATER |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Lead Cement | 07/05/2011 12:55 | | 6 | 435.7 | | | 463.0 | 1050 SACKS MIXED @ 12.3, 2.33 YIELD, 12.62GAL/SACK, TRUCK KICKED OUT ON OWN TWICE WHEN ON CLEAD CEMENT. |
| Pump Tail Cement | 07/05/2011 14:05 | | 6 | 62.3 | | | 444.0 | 169 SACKS MIXED @ 12.8, 2.07 YIELD, 10.67 GAL/SACK |
| Shutdown | 07/05/2011 14:18 | | | | | | | |
| Drop Top Plug | 07/05/2011 14:20 | | | | | | | VERIFY PLUG LEFT |
| Pump Displacement | 07/05/2011 14:21 | | 6 | 206.8 | | | 1073.0 | FRESHWATER |
| Slow Rate | 07/05/2011 14:53 | | 2 | 196.8 | | | 775.0 | SLOWED RATE LAST 10BBLs OF DISPLACEMENT |
| Bump Plug | 07/05/2011 14:57 | | | | | | 800.0 | BUMP PLUG AND WENT 500PSI OVER TO 1300PSI |
| Check Floats | 07/05/2011 15:04 | | | | | | | FLOATS HELD |
| Pressure Test | 07/05/2011 15:28 | | | | | | | PRESSURE TEST CASING AT 1500 PSI FOR 30 MINUTES. |
| End Job | 07/05/2011 16:08 | | | | | | | RELEASE CASING PRESSURE AND END JOB. HAD GOOD CIRCULATION UNTIL 158 BBLs OF LEAD CEMENT AWAY, GOT RETURNS BACK WITH 375 BBLs OF LEAD CEMENT AWAY. GOT CEMENT BACK WITH 75 BBLs OF DISPLACEMENT AWAY, GOT 120 BBLs OF CEMENT BACK TO SURFACE. 1 ADDITIONAL HOUR ADDED TO TICKET. 20 POUNDS OF SUGAR USED. |
| Post-Job Safety Meeting (Pre Rig-Down) | 07/05/2011 16:10 | | | | | | | |
| Rig-Down Equipment | 07/05/2011 16:15 | | | | | | | |

| Pre-Convoy Safety Meeting | 07/05/2011 17:55 | | | | | | | |
|---------------------------|---------------------|----------|---------------------|---------------|-------|------------------|--------|---|
| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
| | | | | Stage | Total | Tubing | Casing | |
| Crew Leave Location | 07/05/2011 18:00 | | | | | | | THANKS FOR USING HALLIBURTON MIKE TRIPLETT AND CREW |

| EVENT # | EVENT | VOLUME | SACKS | WEIGHT | YIELD | GAL/ SK |
|-----------------------------|------------------------|--|---------------------|--------------------|--------|----------|
| 1 | Start Job | | 1392 <u>Max Psi</u> | | | |
| 6 | Test Lines | 3000.0 | | | | |
| 9 | FRESH WATER | 20.0 | | | | |
| 10 | LGC | 20.0 | | | | |
| 9 | FRESHWATER | 20.0 | | | | |
| 13 | Lead Cement | 435.7 | 1050 | 12.3 | 2.33 | 12.62 |
| 15 | Tail Cement | 62.3 | 169 | 12.8 | 2.07 | 10.67 |
| 22 | Drop Plug | | | | | |
| 23 | KCL DISPLACEMENT | 206.8 | | | | |
| | SLOW RATE | 196.8 | | | | |
| 26 | Land Plug | 563+500 | | | | |
| 2 | Release Psi / Job Over | | | | | |
| | | | | | | |
| | | | Do Not Overdisplace | | | |
| DISPLACEMENT | TOTAL PIPE | SHOE JOINT LENGTH | | FLOAT COLLAR | BBL/FT | H2O REQ. |
| 206.82 | 2720 | 44.45 | | 2675.55 | 0.0773 | 411 |
| PSI to Lift Pipe | 1158 | ***** <u>Use Mud Scales on Each Tier</u> ***** | | | | |
| Total Displacement | 206.82 | | | | | |
| CALCULATED DIFFERENTIAL PSI | | 563 | | TOTAL FLUID PUMPED | | 765 |
| Collapse | 1740 | Burst | 2560 | | SO# | 8299205 |

OXY SURFACE CC 697-09-39



Local Event Log

| | | | | | |
|-----------------------|----------|-------------------------------|----------|----------------------------|----------|
| 1 START JOB | 12:43:36 | 2 PRESSURE TEST | 12:46:57 | 3 START FRESH WATER SPACER | 12:50:42 |
| 4 START LGC SPACER | 12:55:12 | 5 START FRESHWATER SPACER | 14:05:39 | 6 START LEAD | 14:21:11 |
| 7 START TAIL | 14:28:39 | 8 SHUTDOWN | 14:53:03 | 9 DROP PLUG | 15:04:04 |
| 10 START DISPLACEMENT | 15:08:59 | 11 SLOW RATE | 15:28:39 | 12 BUMP PLUG | 15:43:36 |
| 13 CHECK FLOATS | 15:57:23 | 14 START CASING PRESSURE TEST | 16:06:50 | 15 RELEASE PRESSURE | |
| 16 END JOB | | | | | |

Customer: OXY
Well Description: CC 697-09-39
ADC USED: YES

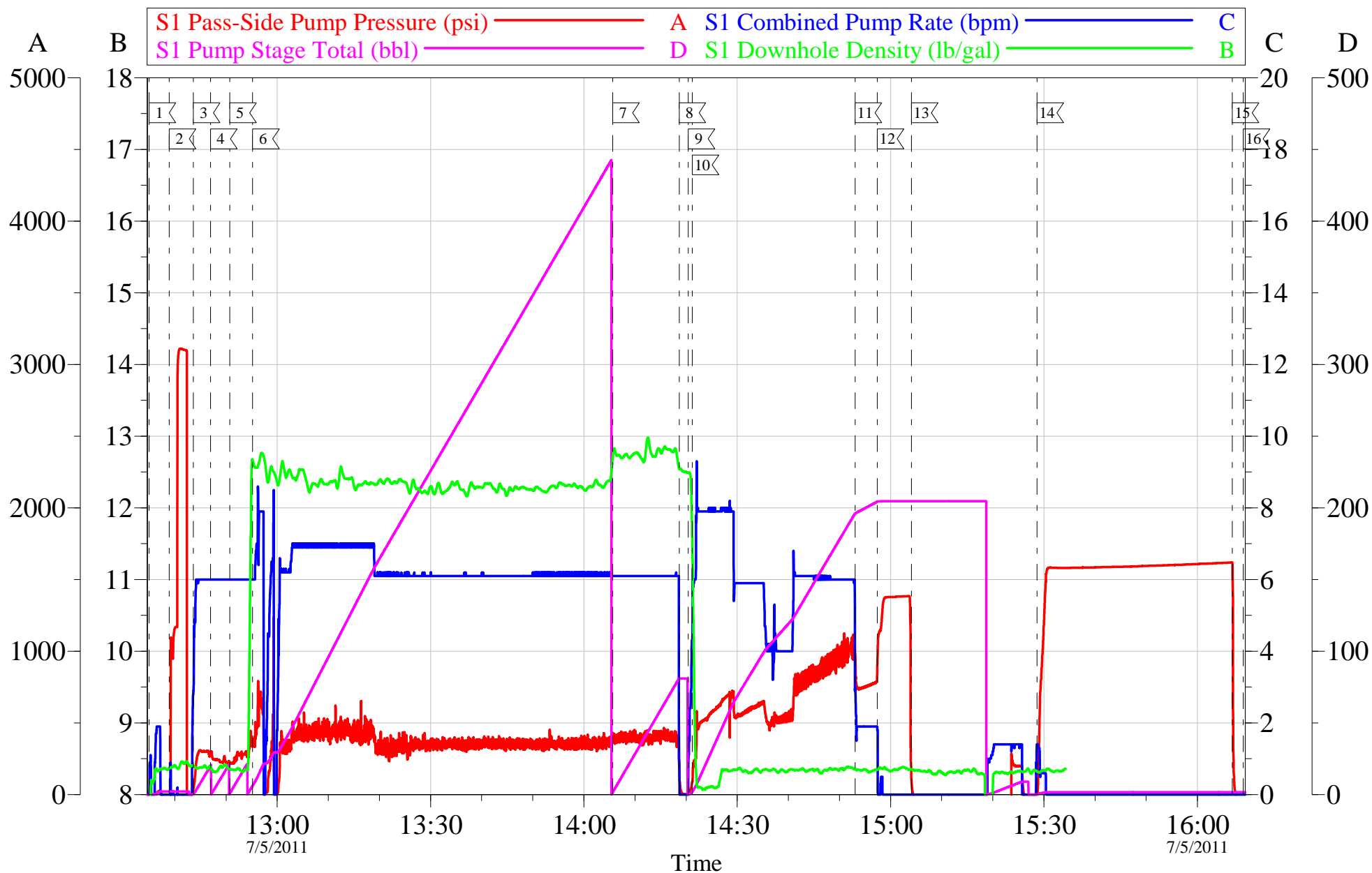
Job Date: 05-Jul-2011
JOB TYPE: SURFACE
SERVICE SUPERVISOR: MIKE TRIPLETT

Sales Order #: 8299205
COMPANY REP: VICTOR BENEVIDES
ELITE/OPERATER 3/ DEAN DANIEL

OptiCem v6.4.9
05-Jul-11 16:11

OXY

SURFACE CC 697-09-39



| | | |
|--------------------------------|-----------------------------------|-------------------------------|
| Customer: OXY | Job Date: 05-Jul-2011 | Sales Order #: 8299205 |
| Well Description: CC 697-09-39 | JOB TYPE: SURFACE | COMPANY REP: VICTOR BENEVIDES |
| ADC USED: YES | SERVICE SUPERVISOR: MIKE TRIPLETT | ELITE/OPERATER 3/ DEAN DANIEL |

OptiCem v6.4.9
05-Jul-11 16:11

HALLIBURTON

Water Analysis Report

Company: WILLIAMS

Submitted by: MIKE TRIPLETT

Attention: JON TROUT

Lease: CC

Well #: 697-09-39

Date: 12/21/2010

Date Rec.: 7/5/2011

S.O.#: 8299205

Job Type: SURFACE

| | | |
|-----------------------------|--------------|--------------------|
| Specific Gravity | <i>MAX</i> | 1 |
| pH | <i>8</i> | 7 |
| Potassium (K) | <i>5000</i> | 450 Mg / L |
| Calcium (Ca) | <i>500</i> | 120 Mg / L |
| Iron (FE2) | <i>300</i> | 0 Mg / L |
| Chlorides (Cl) | <i>3000</i> | 500 Mg / L |
| Sulfates (SO ₄) | <i>1500</i> | -100 Mg / L |
| Chlorine (Cl ₂) | | 0 Mg / L |
| Temp | <i>40-80</i> | 55 Deg |
| Total Dissolved Solids | | 35 Mg / L |

Respectfully: MIKE TRIPLETT

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 report or

| | | |
|---|--|--|
| Sales Order #: 8299205 | Line Item: 10 | Survey Conducted Date: 7/5/2011 |
| Customer: OXY GRAND JUNCTION EBUSINESS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: VICTOR BENEVIDES | | API / UWI: (leave blank if unknown) 05-045-18139 |
| Well Name: CC | | Well Number: 697-09-39 |
| 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 | 7/5/2011 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | MICHEAL TRIPLETT (HB15721) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | VICTOR BENEVIDES |
| 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 #: 8299205 | Line Item: 10 | Survey Conducted Date: 7/5/2011 |
| Customer: OXY GRAND JUNCTION EBUSINESS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: VICTOR BENEVIDES | | API / UWI: (leave blank if unknown) 05-045-18139 |
| Well Name: CC | | Well Number: 697-09-39 |
| 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 | 7/5/2011 |

| 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. | 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. | 3.5 |
| 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 | 7 |
| 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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| Well Name: CC | | Well Number: 697-09-39 |
| 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 | 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 |