
OXY GRAND JUNCTION EBUSINESS

**CC 697-05-55B
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
20-Jan-2012

Post Job Report

The Road to Excellence Starts with Safety

| | | | |
|---|---------------------------------------|---|-------------------------------|
| Sold To #: 344034 | Ship To #: 2903378 | Quote #: | Sales Order #: 9107191 |
| Customer: OXY GRAND JUNCTION EBUSINESS | | Customer Rep: Wylier, Cal | |
| Well Name: CC | Well #: 697-05-55B | API/UWI #: 05-045-20382 | |
| Field: GRAND VALLEY | City (SAP): ADDISON | County/Parish: Garfield | State: Colorado |
| Lat: N 39.554 deg. OR N 39 deg. 33 min. 16.128 secs. | | Long: W 108.242 deg. OR W -109 deg. 45 min. 27.504 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: MAGERS, MICHAEL | MBU ID Emp #: 339439 |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---------------------|---------|--------|------------------------|---------|--------|---------------------|---------|--------|
| BORSZICH, STEPHEN A | 13 | 412388 | MAGERS, MICHAEL Gerard | 13 | 339439 | PONDER, THOMAS Lynn | 13 | 427112 |
| SINCLAIR, DAN J | 13 | 338784 | | | | | | |

Equipment

| HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10871245 | 60 mile | 10938673 | 60 mile | 10969711 | 60 mile | 11021972 | 60 mile |
| 11027039 | 60 mile | 11259886 | 60 mile | 11360881 | 60 mile | 6543 | 60 mile |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------------|-------------------|-----------------|-----------|-------------------|-----------------|------|-------------------|-----------------|
| 01/19/2012 | 6 | 0 | 1/20/2012 | 7 | 5 | | | |

TOTAL Total is the sum of each column separately

Job

Job Times

| Formation Name | Date | Time | Time Zone |
|--|----------------------|-----------------|-----------|
| Formation Depth (MD) Top Bottom | Called Out | 19 - Jan - 2012 | 10:30 MST |
| Form Type BHST | On Location | 19 - Jan - 2012 | 18:00 MST |
| Job depth MD 2730. ft Job Depth TVD 2730. ft | Job Started | 20 - Jan - 2012 | 00:15 MST |
| Water Depth Wk Ht Above Floor 3. ft | Job Completed | 20 - Jan - 2012 | 06:02 MST |
| Perforation Depth (MD) From To | Departed Loc | 20 - Jan - 2012 | 07:30 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 |
|--|------------|-------------------|---------|----------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 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 | |
| | | | | | | | |

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 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | .0 | .0 | 5.0 | |
| 2 | GEL WATER SPACER | SUPER FLUSH 101 - SBM (12199) | 20.00 | bbl | 10. | .0 | .0 | 5.0 | |
| 3 | Fresh Water Spacer | | 10.00 | bbl | 8.33 | .0 | .0 | 5.0 | |
| 4 | 12.3 VERSACEM LEAD | VERSACEM (TM) SYSTEM (452010) | 1060.0 | sacks | 12.3 | 2.33 | 12.62 | 6.0 | 12.62 |
| | 12.62 Gal | FRESH WATER | | | | | | | |
| 5 | 12.8 VERSACEM TAIL | VERSACEM (TM) SYSTEM (452010) | 160.0 | sacks | 12.8 | 2.07 | 10.67 | 6.0 | 10.67 |
| | 10.67 Gal | FRESH WATER | | | | | | | |
| 6 | Displacment Fluid | | 210.00 | bbl | 8.34 | .0 | .0 | 8.0 | |
| Calculated Values | | Pressures | | | Volumes | | | | |
| Displacement | 210 | Shut In: Instant | | Lost Returns | 325 | Cement Slurry | 499 | Pad | |
| Top Of Cement | SURFACE | 5 Min | | Cement Returns | 150 | Actual Displacement | 210 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 40 | Load and Breakdown | | Total Job | 749 |
| Rates | | | | | | | | | |
| Circulating | RIG | Mixing | 6 | Displacement | 6/2 | Avg. Job | | | 6 |
| 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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| Legal Description: | | | |
| Lat: N 39.554 deg. OR N 39 deg. 33 min. 16.128 secs. | | Long: W 108.242 deg. OR W -109 deg. 45 min. 27.504 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: MAGERS, MICHAEL | MBU ID Emp #: 339439 |

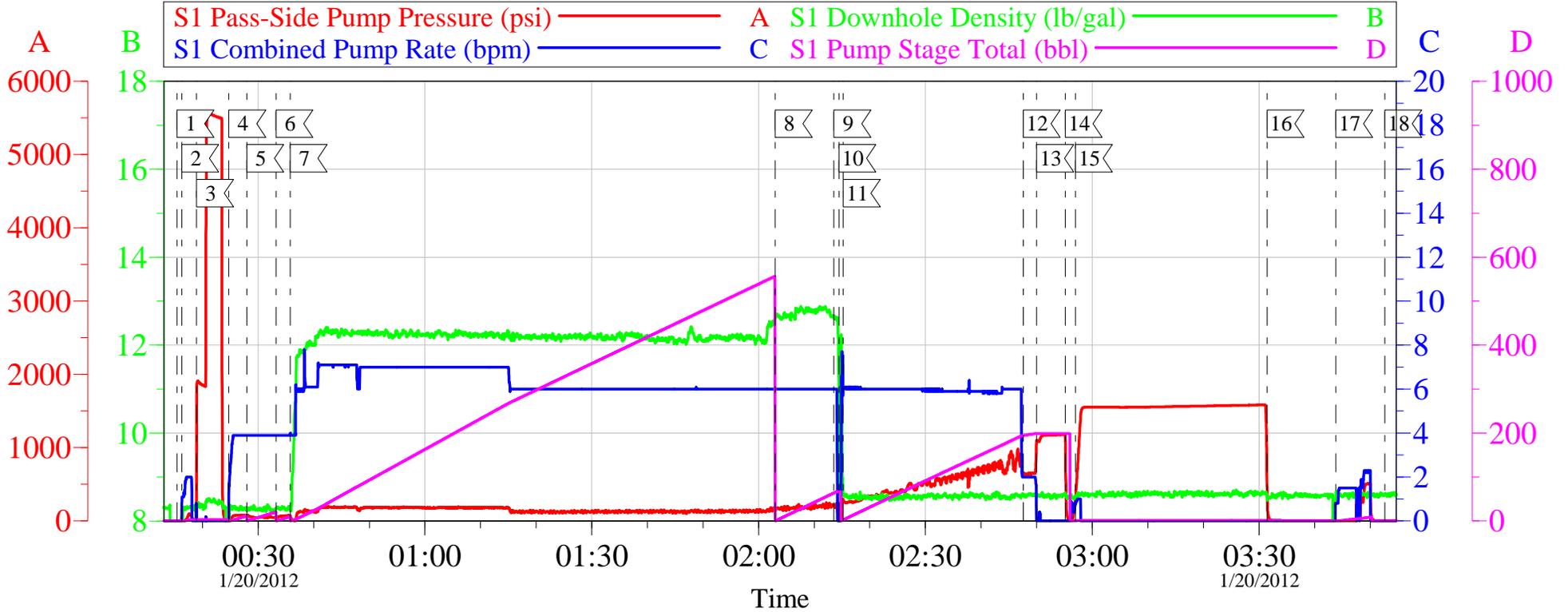
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|---------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Crew Leave Yard | 01/19/2012 13:00 | | | | | | | HES ALL PRESENT |
| Arrive At Loc | 01/19/2012 18:00 | | | | | | | HES ARRIVED ON LOCATION 1 HR EARLY/RIG JUST STARTED RUNNING CASING/RIG CIRCULATED FOR 1 HR WHILE HES RIGGED UP |
| Assessment Of Location Safety Meeting | 01/19/2012 18:10 | | | | | | | LOCATION ICY AND SEMI-SNOWPACKED/MUD/W EATHER COLD |
| Pre-Rig Up Safety Meeting | 01/19/2012 22:45 | | | | | | | JSA ON RIGGING UP |
| Rig-Up Equipment | 01/19/2012 23:00 | | | | | | | 1 PICKUP 1 ELITE 1 BULK TRUCK 1 SILO |
| Safety Huddle | 01/20/2012 00:01 | | | | | | | RIG CREW AND HES ALL PRESENT |
| Start Job | 01/20/2012 00:15 | | | | | | | TD-2730 TP-2714 SJ-47 MW- 9.2 CSG-9 5/8 36# J-55 OH- 14.75" |
| Other | 01/20/2012 00:16 | | 2 | 2 | | | 102.0 | FILL LINES |
| Pressure Test | 01/20/2012 00:18 | | 0.5 | 0.5 | | | 5498.0 | PSI TEST OK |
| Pump Spacer 1 | 01/20/2012 00:24 | | 3 | 10 | | | 77.0 | FRESH WATER |
| Pump Spacer 2 | 01/20/2012 00:27 | | 3 | 20 | | | 48.0 | GEL SPACER 5 GALS LGC 2.5 GALS PER 10 BBLS |
| Pump Spacer 1 | 01/20/2012 00:33 | | 3 | 10 | | | 74.0 | FRESH WATER |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|-------------------------|---------------------|-------|--------------|------------|-------|---------------|------------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Lead Cement | 01/20/2012 00:35 | | 6 | 440 | | | 188.0 | VERSACEM 1060 SKS 12.3 PPG 2.33 FT3/SK 12.62 GAL/SK 7 BOXES OF TUF-FIBER |
| Pump Tail Cement | 01/20/2012 02:02 | | 6 | 59 | | | 200.0 | VERSACEM 160 SKS 12.8 PPG 2.07 FT3/SK 10.67 GAL/SK |
| Shutdown | 01/20/2012 02:13 | | | | | | | GOT RETURNS AT 194 BBLs INTO LEAD CEMENT/LOST RETURNS AT 234/GAINED RETURNS AT 290 LOST AT 314/HAD RETURNS THROUGHOUT THE REST OF THE JOB AT 350 BBLs INTO LEAD CEMENT |
| Drop Plug | 01/20/2012 02:14 | | | | | | | PLUG AWAY NO PROBLEMS |
| Pump Displacement | 01/20/2012 02:15 | | 6 | 210 | | | 930.0 | FRESH WATER |
| Slow Rate | 01/20/2012 02:47 | | 2 | 195 | | | 691.0 | GOT 150 BBLs BACK TO SURFACE |
| Bump Plug | 01/20/2012 02:50 | | 2 | 210 | | | 652.0 | BUMPED PLUG |
| Check Floats | 01/20/2012 02:55 | | | 210 | | | 1162. 0 | FLOATS HELD/GOT 1 BBL BACK INTO TANK |
| Pressure Test | 01/20/2012 02:56 | | 1 | 1 | | | 1530. 0 | PRESURE TEST 9 625. SURFACE CASING TO 1500 PSI |
| Release Casing Pressure | 01/20/2012 03:31 | | | | | | 1590. 0 | RELEASE PRESSURE AT 1590 PSI |
| Pump Spacer 1 | 01/20/2012 03:43 | | 2.25 | 10 | | | 501.0 | PUMP 10 BBLs OF SUGAR WATER |
| End Job | 01/20/2012 03:52 | | | | | | | SHUT DOWN CEMENT FELL BACK 50' / PER COMPANY REP TOPOUT AT 5:00AM |
| Start Job | 01/20/2012 05:20 | | | | | | | RIG UP TO 1 INCH PIPE |
| Pump Spacer 1 | 01/20/2012 05:21 | | 1 | 0.5 | | | | FRESH WATER |
| Pump Cement | 01/20/2012 05:23 | | 2.5 | 8 | | | 21.0 | TOPOUT 108 SKS 12.5 PPG 1.97 FT3/SK 10.96 GAL/SK 38 BBLs TOTAL OF TOPOUT PUMPED |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|----------------------|---------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Shutdown | 01/20/2012 05:29 | | | | | | | |
| Pump Cement | 01/20/2012 05:34 | | 2.5 | 7 | | | 17.0 | TOPOUT/CEMENT TO SURFACE |
| Shutdown | 01/20/2012 05:38 | | | | | | | |
| Pump Cement | 01/20/2012 05:48 | | 2.5 | 8 | | | 21.0 | TOPOUT TO SURFACE |
| Shutdown | 01/20/2012 05:52 | | | | | | | |
| Pump Cement | 01/20/2012 05:55 | | 2.5 | 6 | | | 21.0 | TOPOUT TO SURFACE |
| Shutdown | 01/20/2012 05:58 | | | | | | | |
| Pump Cement | 01/20/2012 06:00 | | 1 | 1 | | | 1.0 | TOPOUT TO SURFACE |
| Shutdown | 01/20/2012 06:01 | | 2.5 | 8 | | | | SENT 8 BBLS OF CEMENT TO THE PIT/STILL HAD CEMENT IN TUBS |
| End Job | 01/20/2012 06:02 | | | | | | | THANKS FOR USING HES AND THE CREW OF MIKE MAGERS |

OXY H&P 353 CC 697-05-55B

9.625 SURFACE

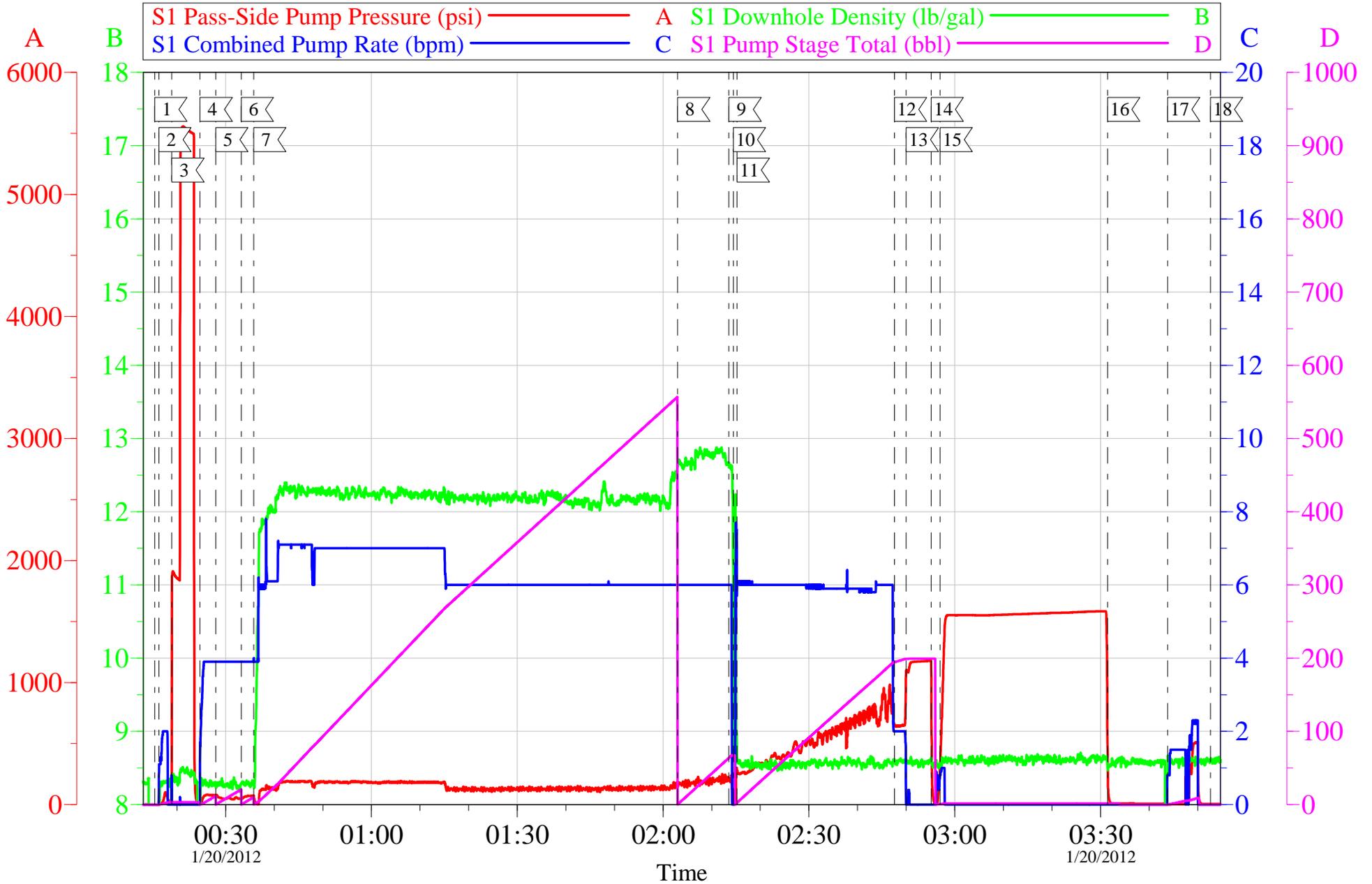


| Local Event Log | | |
|-----------------|----------------------------|----------|
| 1 | START JOB | 00:15:25 |
| 2 | FILL LINES | 00:16:16 |
| 3 | PRESSURE TEST | 00:18:56 |
| 4 | PUMP SPACER | 00:24:45 |
| 5 | PUMP GEL SPACER | 00:27:57 |
| 6 | PUMP SPACER | 00:33:13 |
| 7 | PUMP LEAD CEMENT | 00:35:47 |
| 8 | PUMP TAIL CEMENT | 02:02:59 |
| 9 | SHUT DOWN | 02:13:33 |
| 10 | DROP PLUG | 02:14:26 |
| 11 | PUMP FRSH WTR DISPLACEMENT | 02:15:14 |
| 12 | SLOW RATE | 02:47:35 |
| 13 | BUMP PLUG | 02:50:00 |
| 14 | CHECK FLOATS | 02:55:09 |
| 15 | PRESSURE TEST CASING | 02:56:58 |
| 16 | RELEASE PRESSURE | 03:31:27 |
| 17 | PUMP SUGAR WATER | 03:43:47 |
| 18 | END JOB | 03:52:35 |

| | | |
|---------------------------------|--------------------------------|--------------------------|
| Customer: OXY H&P 353 | Job Date: 19-Jan-2012 | Sales Order #: 9107191 |
| Well Description: CC 697-05-55B | Job Type: SURFACE | ADC Used: YES |
| Company Rep: CAL WYLIER | Cement Supervisor: MIKE MAGERS | Elite # 8 STEVE BORSZICH |

OXY H&P 353 CC 697-05-55B

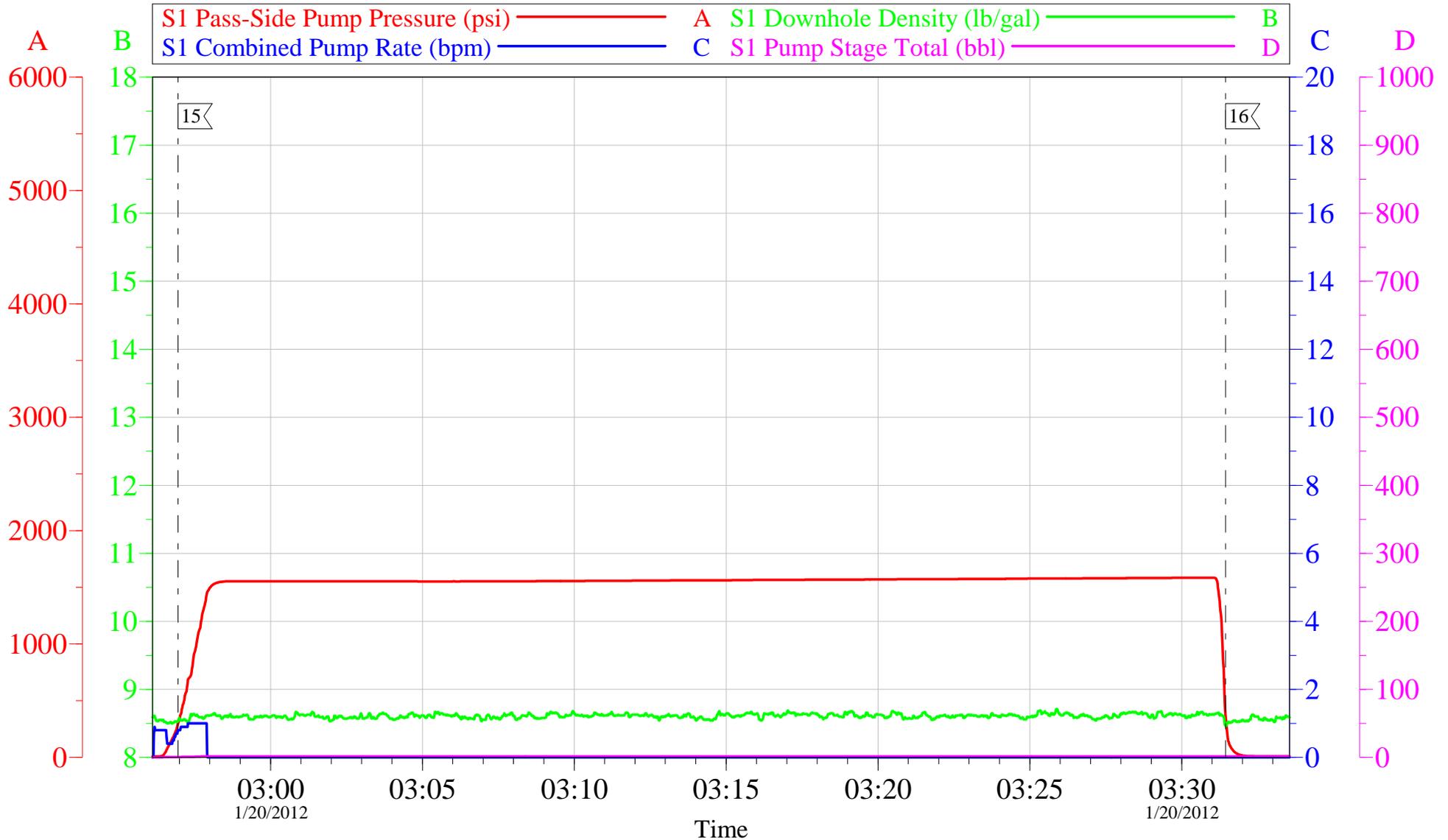
9.625 SURFACE



| | | |
|---------------------------------|--------------------------------|--------------------------|
| Customer: OXY H&P 353 | Job Date: 19-Jan-2012 | Sales Order #: 9107191 |
| Well Description: CC 697-05-55B | Job Type: SURFACE | ADC Used: YES |
| Company Rep: CAL WYLIER | Cement Supervisor: MIKE MAGERS | Elite # 8 STEVE BORSZICH |

OXY H&P 353 CC 697-05-55B

CASING PRESSURE TEST

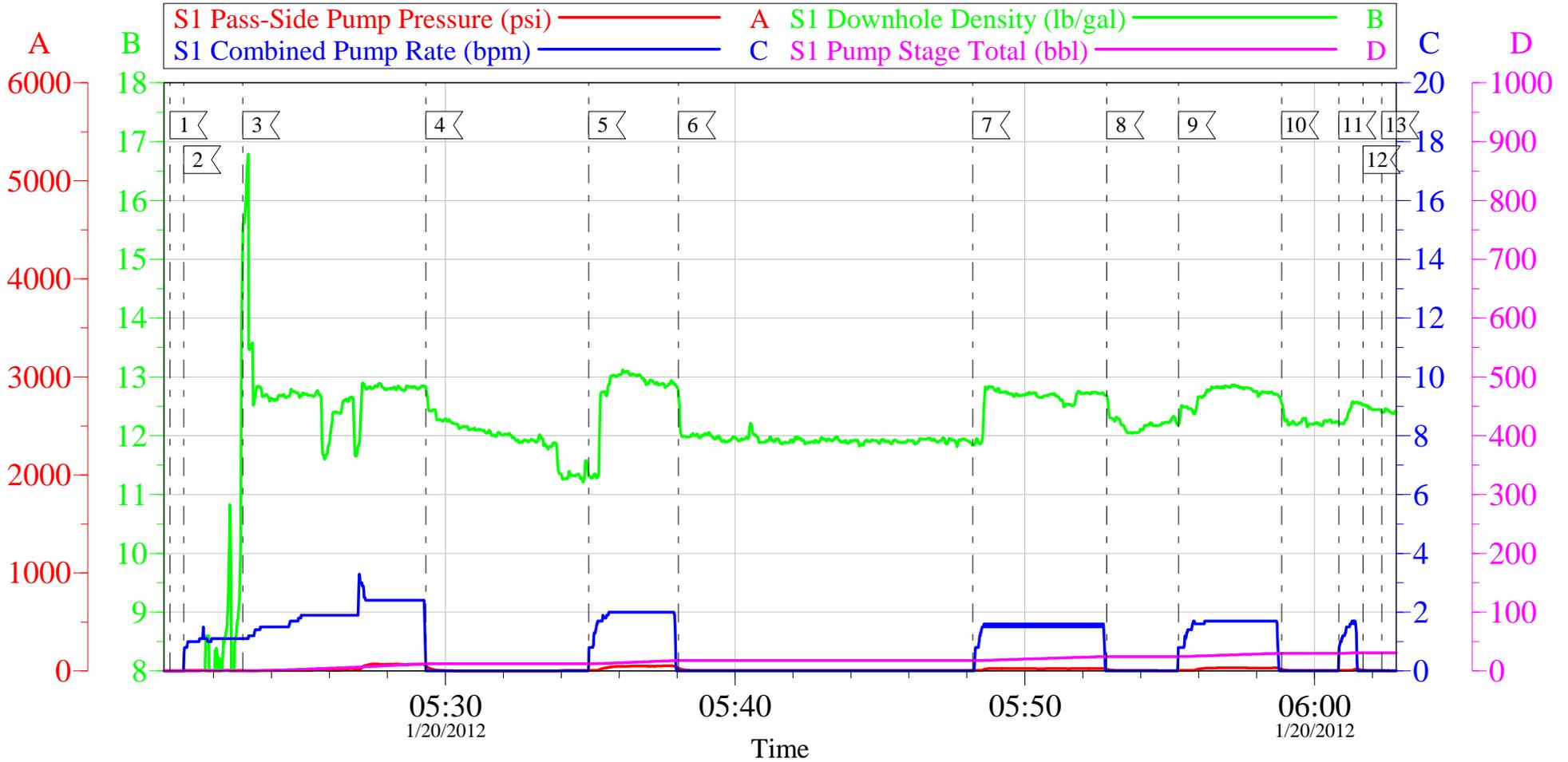


| Local Event Log | | | |
|-----------------|----------------------|----------|------------------|
| 15 | PRESSURE TEST CASING | 02:56:58 | 16 |
| | | | RELEASE PRESSURE |
| | | | 03:31:27 |

| | | | | | |
|-------------------|---------------|--------------------|-------------|----------------|----------------|
| Customer: | OXY H&P 353 | Job Date: | 19-Jan-2012 | Sales Order #: | 9107191 |
| Well Description: | CC 697-05-55B | Job Type: | SURFACE | ADC Used: | YES |
| Company Rep: | CAL WYLIER | Cement Supervisor: | MIKE MAGERS | Elite # 8 | STEVE BORSZICH |

OXY H&P 353 CC 697-05-55B

TOPOUT 1



| Local Event Log | | | | | | | | |
|-----------------|-------------|----------|----|-------------------|----------|----|-------------|----------|
| 1 | START JOB | 05:20:30 | 2 | PUMP WATER SPACER | 05:20:58 | 3 | PUMP TOPOUT | 05:23:00 |
| 4 | SHUT DOWN | 05:29:19 | 5 | PUMP TOPOUT | 05:34:57 | 6 | SHUTDOWN | 05:38:03 |
| 7 | PUMP TOPOUT | 05:48:13 | 8 | SHUT DOWN | 05:52:50 | 9 | PUMP TOPOUT | 05:55:19 |
| 10 | SHUT DOWN | 05:58:52 | 11 | PUMP TOPOUT | 06:00:51 | 12 | SHUTDOWN | 06:01:41 |
| 13 | END JOB | 06:02:20 | | | | | | |

| | | | | | |
|-------------------|---------------|--------------------|-------------|----------------|----------------|
| Customer: | OXY H&P 353 | Job Date: | 20-Jan-2012 | Sales Order #: | 9107191 |
| Well Description: | CC 697-05-55B | Job Type: | TOPOUT 1 | ADC Used: | YES |
| Company Rep: | CAL WYLIER | Cement Supervisor: | MIKE MAGERS | Elite # 8 | STEVE BORSZICH |

| | | |
|--|--|--|
| Sales Order #: 9107191 | Line Item: 10 | Survey Conducted Date: 1/20/2012 |
| Customer: OXY GRAND JUNCTION EBUSINESS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: CAL WYLIER | | API / UWI: (leave blank if unknown) 05-045-20382 |
| Well Name: CC | | Well Number: 697-05-55B |
| 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 | 1/20/2012 |
| Survey Interviewer | The survey interviewer is the person who initiated the survey. | MICHAEL MAGERS (HX13672) |
| Customer Participation | Did the customer participate in this survey? (Y/N) | Yes |
| Customer Representative | Enter the Customer representative name | CAL WYLIER |
| 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 | CIR CEMENT TO SURFACE, GOOD JOB |

| |
|---------------------------|
| CUSTOMER SIGNATURE |
|---------------------------|

| | | |
|--|--|--|
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| Customer: OXY GRAND JUNCTION EBUSINESS | | Job Type (BOM): CMT SURFACE CASING BOM |
| Customer Representative: CAL WYLIER | | API / UWI: (leave blank if unknown) 05-045-20382 |
| Well Name: CC | | Well Number: 697-05-55B |
| 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 | 1/20/2012 |
| 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 | Vertical |
| What is the highest deviation for the job you just completed? This may not be the maximum well deviation. | |
| Total Operating Time (hours) | 7 |
| 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) | 5 |
| 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: 697-05-55B |
| 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 | 94 |
| 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 | 94 |
| 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 |