
OXY GRAND JUNCTION EBUSINESS

**CC 697-16-17A
GRAND VALLEY
Garfield County , Colorado**

Cement Surface Casing
22-Mar-2010

Post Job Report

The Road to Excellence Starts with Safety

| | | | |
|---|---|-------------------------|------------------------|
| Sold To #: 344034 | Ship To #: 2774896 | Quote #: | Sales Order #: 7252951 |
| Customer: OXY GRAND JUNCTION EBUSINESS | Customer Rep: Benevides, Simon | | |
| Well Name: CC | Well #: 697-16-17A | API/UWI #: 05-045-18059 | |
| Field: GRAND VALLEY | City (SAP): PARACHUTE | County/Parish: Garfield | State: Colorado |
| Lat: N 39.522 deg. OR N 39 deg. 31 min. 18.52 secs. | Long: W 108.231 deg. OR W -109 deg. 46 min. 6.802 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: DUNNING, DUSTIN | Srvc 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 # |
|-----------------|---------|--------|-----------------------------|---------|--------|----------------|---------|--------|
| BROWN, TRAVIS A | 8 | 396848 | HOEFER, FREEMAN Dennis | 8 | 369666 | LEIST, JAMES R | 8 | 362787 |
| SCOTT, DALLAS D | 8 | 334750 | ZUMWALT, ORVILLE Raymond | 8 | 398157 | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|-----------------------|----------------|-----------------------|----------------|------------|----------------|
| 11259882 | 120 | 10897797- 10296152 | 120 | 10998512- 10867322 | 120 | | |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---------|----------------------|--------------------|---------|----------------------|--------------------|------|----------------------|--------------------|
| 3-21-10 | 3 | 0 | 2-22-10 | 15 | 8 | | | |

| | | | | | | | | |
|-------|--|--|--|--|--|--|--|--|
| TOTAL | Total is the sum of each column separately | | | | | | | |
|-------|--|--|--|--|--|--|--|--|

Job

Job Times

| Formation Name | Formation Depth (MD) | Top | Bottom | Form Type | Job depth MD | Job Depth TVD | Water Depth | Perforation Depth (MD) | From | To | Called Out | Date | Time | Time Zone |
|----------------|----------------------|-----|--------|-----------|--------------|---------------|-------------|------------------------|------|----|---------------|-----------------|-------|-----------|
| | | | | BHST | 2735. ft | 2735. ft | 4. ft | | | | | 21 - Mar - 2010 | 16:00 | MST |
| | | | | | | | | | | | On Location | 21 - Mar - 2010 | 21:00 | MST |
| | | | | | | | | | | | Job Started | 22 - Mar - 2010 | 08:02 | MST |
| | | | | | | | | | | | Job Completed | 22 - Mar - 2010 | 14:05 | MST |
| | | | | | | | | | | | Departed Loc | 22 - Mar - 2010 | 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 | 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 | | | | | | | | | |
|--|--------------------|--------------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| 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 | SUPER FLUSH 101 | 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) | 1100.0 | sacks | 12.3 | 2.34 | 12.71 | 6.0 | 12.71 |
| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 0.1 % | | TUF FIBER 594, 15 LB BOX (101350514) | | | | | | | |
| 12.71 Gal | | FRESH WATER | | | | | | | |
| 5 | 12.8 VERSACEM TAIL | VERSACEM (TM) SYSTEM (452010) | 180.0 | sacks | 12.8 | 2.08 | 10.75 | 6.0 | 10.75 |
| 0.25 lbm | | POLY-E-FLAKE (101216940) | | | | | | | |
| 10.75 Gal | | FRESH WATER | | | | | | | |
| 6 | Water Spacer | | 207.00 | bbl | 8.34 | .0 | .0 | 8.0 | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 207 | Shut In: Instant | | Lost Returns | | Cement Slurry | | Pad | |
| Top Of Cement | SURFCE | 5 Min | | Cement Returns | 2 | Actual Displacement | | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 40 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | 2 | Mixing | 5 | Displacement | 5 | Avg. Job | 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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| Legal Description: | | | | | | | |
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| 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: DUNNING, DUSTIN | | | Srvc Supervisor: LEIST, JAMES | | | MBU ID Emp #: 362787 | |

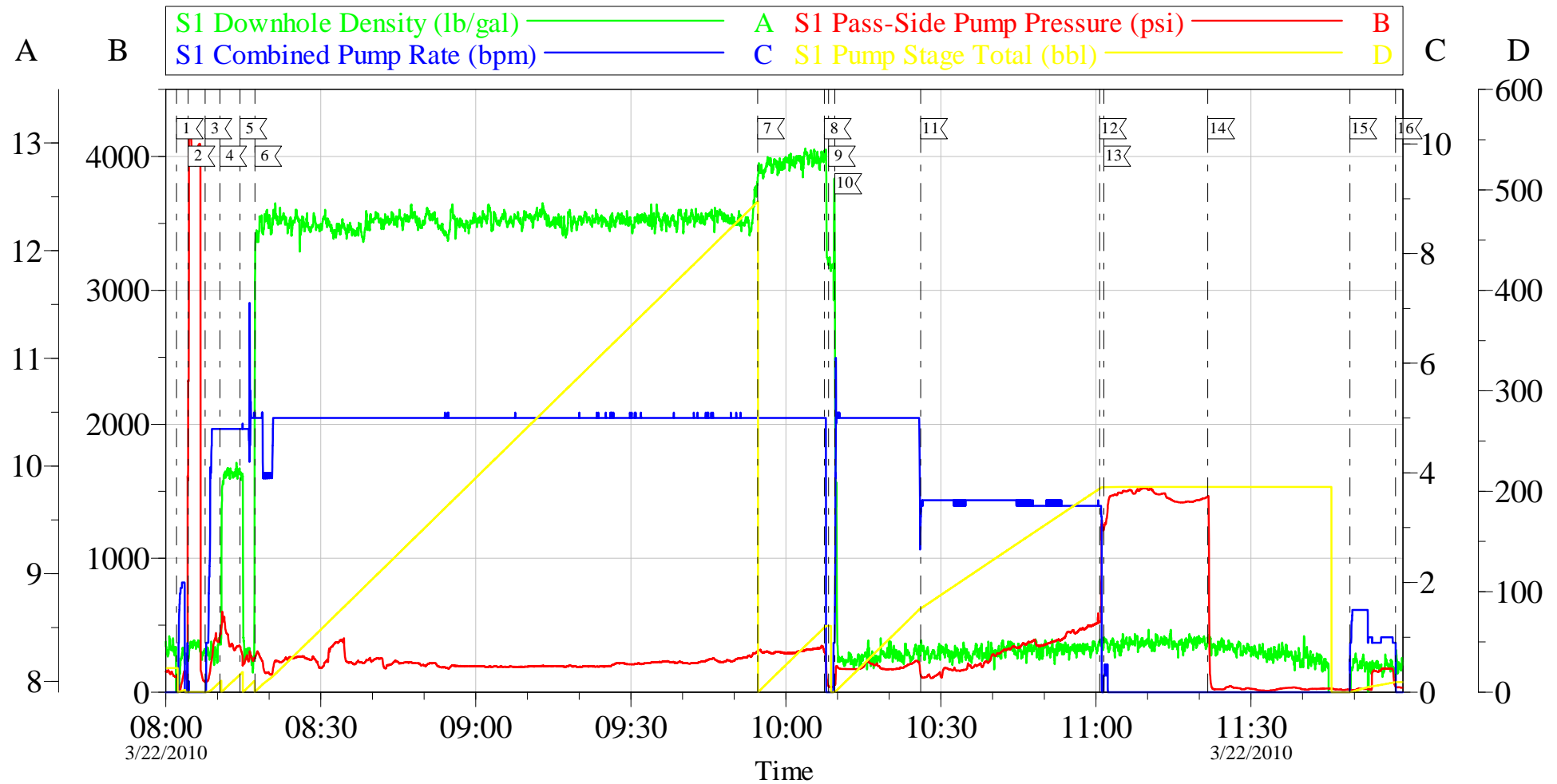
| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Call Out | 03/21/2010 16:00 | | | | | | | TP-2735, TD-2763, S.J.-45, MUD#-10, HOLE-14 3/4, MUD PV-16, YP-10, TEMP WAS 78 |
| Pre-Convoy Safety Meeting | 03/21/2010 17:59 | | | | | | | WITH ALL HES PERSONNEL |
| Crew Leave Yard | 03/21/2010 18:00 | | | | | | | RIG CIRULATED FOR 4 HOURS PRIOR TO CMT JOB WITH NO RETURNS AT 30 ST/MIN WITH -30PSI |
| Arrive At Loc | 03/21/2010 19:45 | | | | | | | RUNNING CASING |
| Assessment Of Location Safety Meeting | 03/21/2010 21:00 | | | | | | | WITH ALL HES PERSONNEL |
| Pre-Rig Up Safety Meeting | 03/22/2010 01:30 | | | | | | | WITH ALL HES PERSONNEL |
| Rig-Up Completed | 03/22/2010 03:30 | | | | | | | TRANSPORT ON LOCATION @ 0130 LEFT LOCATION @ 1230 |
| Pre-Job Safety Meeting | 03/22/2010 07:30 | | | | | | | WITH ALL ON LOCATION PERSONNEL |
| Start Job | 03/22/2010 08:02 | | | | | | | NO PIPE MOVEMENT DURING JOB |
| Pressure Test | 03/22/2010 08:04 | | | | | | | 4180 PSI |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|----------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Spacer 1 | 03/22/2010 08:07 | | 5 | 10 | | | 246.0 | FRESH WATER, HAD NO RETURNS UNTILL 384 GONE ON LEAD CMT, LOST RETURNS 10 BBLS PRIOR TO END OF TAIL CMT NEVER REGAINED THEM AGAIN UNTILL TOP OUTS |
| Pump Spacer 1 | 03/22/2010 08:10 | | 5 | 20 | | | 340.0 | SUPER FLUSH 101 |
| Pump Spacer 1 | 03/22/2010 08:14 | | 5 | 10 | | | 254.0 | FRESH WATER |
| Pump Lead Cement | 03/22/2010 08:17 | | 5 | 458 | | | 256.0 | 1104 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK |
| Pump Tail Cement | 03/22/2010 09:54 | | 5 | 66.7 | | | 330.0 | 180 SKS, 12.8 PPG, 2.07 FT3/SK, 10.67 GAL/SK |
| Shutdown | 03/22/2010 10:07 | | | | | | | |
| Drop Top Plug | 03/22/2010 10:08 | | | | | | | AWAY |
| Pump Displacement | 03/22/2010 10:09 | | 5 | 207 | | | 200.0 | FRESH WATER |
| Slow Rate | 03/22/2010 10:26 | | 3.5 | 197 | | | 110.0 | TO BUMP PLUG |
| Bump Plug | 03/22/2010 11:00 | | 3.5 | 207 | | | 520.0 | PLUG BUMPED |
| Check Floats | 03/22/2010 11:21 | | | | | | 1500.0 | THE FLOATS ARE HOLDING |
| Pump Displacement | 03/22/2010 11:49 | | 1.5 | 10 | | | 45.0 | PUMPED PARASITE STRING WITH SUGAR WATER |
| Shutdown | 03/22/2010 11:57 | | | | | | | AFTER PUMPING PARASITE GOT READY TO TOP OUT WELL, RAN 40 FT OF OUR 1 IN. TUBING IN ANNULAS |
| Pump Cement | 03/22/2010 12:42 | | 2 | 40 | | | 137.0 | TOP OUT 114 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK |
| Pump Displacement | 03/22/2010 13:02 | | 2 | 4 | | | 135.0 | FRESH WATER DISPLACED IRON AND TUBING |

| Activity Description | Date/Time | Cht # | Rate bbl/ min | Volume bbl | | Pressure psig | | Comments |
|-----------------------------|---------------------|----------|---------------------|---------------|-------|------------------|--------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Pump Spacer 1 | 03/22/2010 14:02 | | 2 | 2 | | | 10.0 | PUMPED 2 BBLS H2O AHEAD TO MAKE SURE NOT PLUGGED OFF |
| Pump Cement | 03/22/2010 14:03 | | 2 | 2.5 | | | 20.0 | TOP OUT 7 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK 2 BBLS CMT TO SURFACE |
| End Job | 03/22/2010 14:05 | | | | | | | |
| Pre-Rig Down Safety Meeting | 03/22/2010 14:25 | | | | | | | WITH ALL HES PERSONNEL |
| Rig-Down Completed | 03/22/2010 17:00 | | | | | | | |
| Pre-Convoy Safety Meeting | 03/22/2010 17:45 | | | | | | | WITH ALL HES PERSONNEL |
| Crew Leave Location | 03/22/2010 18:00 | | | | | | | |
| Comment | 03/22/2010 18:00 | | | | | | | THANKYOU FOR USING HALLIBURTON CEMENT, JAMES LEIST AND CREW |

OXY

9 5/8 SURFACE CASING



| Local Event Log | | | | | |
|-----------------|-----------------|----------|----|-------------------|----------|
| 1 | START JOB | 08:02:05 | 2 | PRESSURE TEST | 08:04:20 |
| 3 | PUMP H2O SPACER | 08:07:36 | 4 | PUMP SUPERFLUSH | 08:10:29 |
| 5 | PUMP H2O SPACER | 08:14:23 | 6 | PUMP LEAD CMT | 08:17:15 |
| 7 | PUMP TAIL CMT | 09:54:33 | 8 | SHUTDOWN | 10:07:28 |
| 9 | DROP TOP PLUG | 10:08:16 | 10 | PUMP DISPLACEMENT | 10:09:30 |
| 11 | SLOW RATE | 10:26:06 | 12 | BUMP PLUG | 11:00:44 |
| 13 | CASING TEST | 11:01:33 | 14 | CHECK FLOATS | 11:21:39 |
| 15 | PUMP PARASITE | 11:49:10 | 16 | SHUTDOWN/WASH UP | 11:57:59 |

Customer: OXY
Well Description: CC 697-16-17A
Company Rep: SIMON BENEVIDES

Job Date: 22-Mar-2010
Job Type: SURFACE
Cement Supervisor: JAMES LEIST

Sales Order #: 7252951
ADC Used: YES
Elite #:9 TRAVIS BROWN

OptiCem v6.3.4
22-Mar-10 14:46