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# **OXY GRAND JUNCTION EBUSINESS**

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**CC 697-09-10A  
GRAND VALLEY  
Garfield County , Colorado**

**Cement Surface Casing  
19-May-2011**

**Job Site Documents**

### The Road to Excellence Starts with Safety

|  |  |                       |                                     |  |  |                        |  |
|--|--|-----------------------|-------------------------------------|--|--|------------------------|--|
| Sold To #: 344034                                    |  | Ship To #: 2854576    |                                     | Quote #:   |  | Sales Order #: 8171888 |  |
| Customer: OXY GRAND JUNCTION EBUSINESS               |  |                       |                                     | Customer Rep:  |  |                        |  |
| Well Name: CC  |  |                       | Well #: 697-09-10A                  |  |  | API/UWI #: 05-04520024 |  |
| Field: GRAND VALLEY                                  |  | City (SAP): PARACHUTE |                                     | County/Parish: Garfield                                  |  | State: Colorado        |  |
| Lat: N 39.542 deg. OR N 39 deg. 32 min. 31.304 secs. |  |                       |                                     | Long: W 108.238 deg. OR W -109 deg. 45 min. 42.887 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: DUNNING, DUSTIN                        |  |                       | Srvc Supervisor: SMITH, CHRISTOPHER |  |  | MBU ID Emp #: 452619   |  |

### Job Personnel

| HES Emp Name             | Exp Hrs | Emp #  | HES Emp Name   | Exp Hrs | Emp #  | HES Emp Name       | Exp Hrs | Emp #  |
|--------------------------|---------|--------|----------------|---------|--------|--------------------|---------|--------|
| HAYES, JESSE Doug        |         | 403601 | LEIST, JAMES R |         | 362787 | SALAZAR, PAUL Omar |         | 445614 |
| SMITH, CHRISTOPHER Scott |         | 452619 |                |         |        |                    |         |        |

### Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10025041   | 240 mile       | 10616651C  | 240 mile       | 10741119   | 240 mile       | 10995025   | 240 mile       |
| 11259882   | 240 mile       |            |                |            |                |            |                |

### Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
|      |                   |                 |      |                   |                 |      |                   |                 |

**TOTAL** Total is the sum of each column separately

### Job

| Formation Name | Formation Depth (MD) | Top | Bottom | Job Type | Job depth MD | Job Depth TVD | Wk Ht Above Floor | Perforation Depth (MD) | From | To | Called Out      | On Location     | Job Started     | Job Completed   | Departed Loc    |
|----------------|----------------------|-----|--------|----------|--------------|---------------|-------------------|------------------------|------|----|-----------------|-----------------|-----------------|-----------------|-----------------|
|                |                      |     |        | BHST     | 2720. ft     | 2720. ft      | 3. ft             |                        |      |    | 18 - May - 2011 | 19 - May - 2011 | 19 - May - 2011 | 19 - May - 2011 | 19 - May - 2011 |
|                |                      |     |        |          |              |               |                   |                        |      |    | 21:00           | 05:00           | 12:48           | 18:01           |                 |
|                |                      |     |        |          |              |               |                   |                        |      |    | MST             | MST             | MST             | MST             | 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 |
|-----------------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| 14.75" OPEN HOLE      |            |                   |         | 14.75 |               |        |       | .         | 2720.        |            |               |
| 9.625" SURFACE CASING | Unknown    |                   | 9.625   | 8.921 | 36.           |        | J-55  | .         | 2701.        |            |               |

### 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

|                      |  |             |  |                   |  |             |  |                  |  |             |  |             |          |
|----------------------|--|-------------|--|-------------------|--|-------------|--|------------------|--|-------------|--|-------------|----------|
| <b>Gelling Agt</b>   |  | <b>Conc</b> |  | <b>Surfactant</b> |  | <b>Conc</b> |  | <b>Acid Type</b> |  | <b>Qty</b>  |  | <b>Conc</b> | <b>%</b> |
| <b>Treatment Fld</b> |  | <b>Conc</b> |  | <b>Inhibitor</b>  |  | <b>Conc</b> |  | <b>Sand Type</b> |  | <b>Size</b> |  | <b>Qty</b>  |          |

### 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  | 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) | 170.0           | sacks                             | 12.8 | 2.07                | 10.67 |           | 10.67           |
|  | 10.67 Gal     | FRESH WATER                   |                 |                                   |      |                     |       |           |                 |
| 6  | Displacement  |                               | 205.00          | 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                   |                 |                                   |      |                     |       |           |                 |
| <b>Calculated Values</b>                 |               | <b>Pressures</b>              |                 | <b>Volumes</b>                    |      |                     |       |           |                 |
| Displacement                             |               | Shut In: Instant              |                 | Lost Returns                      |      | Cement Slurry       |       | Pad       |                 |
| Top Of Cement                            |               | 5 Min                         |                 | Cement Returns                    |      | Actual Displacement |       | Treatment |                 |
| Frac Gradient                            |               | 15 Min                        |                 | Spacers                           |      | Load and Breakdown  |       | Total Job |                 |
| <b>Rates</b>                             |               |                               |                 |                                   |      |                     |       |           |                 |
| Circulating                              |               | Mixing                        |                 | Displacement                      |      | Avg. Job            |       |           |                 |
| Cement Left In Pipe                      | Amount        | 49 ft                         | Reason          | Shoe Joint                        |      |                     |       |           |                 |
| Frac Ring # 1 @                          | ID            |                               | Frac ring # 2 @ | ID                                |      | Frac Ring # 3 @     | ID    |           | Frac Ring # 4 @ |
| The Information Stated Herein Is Correct |               |                               |                 | Customer Representative Signature |      |                     |       |           |                 |

*The Road to Excellence Starts with Safety*

|   |                              |   |                               |
|---|------------------------------|---|-------------------------------|
| <b>Sold To #:</b> 344034                                    | <b>Ship To #:</b> 2854576    | <b>Quote #:</b>   | <b>Sales Order #:</b> 8171888 |
| <b>Customer:</b> OXY GRAND JUNCTION EBUSINESS               |                              | <b>Customer Rep:</b>  |                               |
| <b>Well Name:</b> CC  | <b>Well #:</b> 697-09-10A    | <b>API/UWI #:</b> 05-04520024                                   |                               |
| <b>Field:</b> GRAND VALLEY                                  | <b>City (SAP):</b> PARACHUTE | <b>County/Parish:</b> Garfield                                  | <b>State:</b> Colorado        |
| <b>Legal Description:</b>                                   |                              |   |                               |
| <b>Lat:</b> N 39.542 deg. OR N 39 deg. 32 min. 31.304 secs. |                              | <b>Long:</b> W 108.238 deg. OR W -109 deg. 45 min. 42.887 secs. |                               |
| <b>Contractor:</b> H&P 353                                  |                              | <b>Rig/Platform Name/Num:</b> H&P 353                           |                               |
| <b>Job Purpose:</b> Cement Surface Casing                   |                              |   | <b>Ticket Amount:</b>         |
| <b>Well Type:</b> Development Well                          |                              | <b>Job Type:</b> Cement Surface Casing                          |                               |
| <b>Sales Person:</b> DUNNING, DUSTIN                        |                              | <b>Srvc Supervisor:</b> SMITH, CHRISTOPHER                      | <b>MBU ID Emp #:</b> 452619   |

| Activity Description                  | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments  |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
|                                       |                  |       |              | Stage      | Total | Tubing        | Casing |   |
| Pre-Convoy Safety Meeting             | 05/18/2011 21:00 |       |              |            |       |               |        | ALL HES PERSONEL  |
| Crew Leave Yard                       | 05/18/2011 23:30 |       |              |            |       |               |        |   |
| Arrive At Loc                         | 05/19/2011 05:00 |       |              |            |       |               |        | RIG RUNNING CASEING. CREW STAYED OFF LOCATION UNTILL SAFETY AND COMP REP WERE NOTIFIED OF OUR ARRIVAL.  |
| Assessment Of Location Safety Meeting | 05/19/2011 05:30 |       |              |            |       |               |        | ALL HES PERSONEL  |
| Rig-Up Equipment                      | 05/19/2011 12:00 |       |              |            |       |               |        | RIGGED UP AFTER RIG FINISHED CASING. HES STAYED OUT OF THE RED ZONE.                                    |
| Pre-Job Safety Meeting                | 05/19/2011 12:35 |       |              |            |       |               |        | ALL HES PERSONEL AND RIG CREW   |
| Start Job                             | 05/19/2011 12:48 |       |              |            |       |               |        | TD 2720', TP 2701', SJ 49', OH 14.75", CSG 9.625" 36# J-55 , MUD 9.2 PPG, YP- 15, PV- 42, TEMP- 79 DEG. |
| Other                                 | 05/19/2011 12:50 |       | 2            | 2          |       |               | 30.0   | FILL LINES  |
| Pressure Test                         | 05/19/2011 12:55 |       | 0.5          | 0.5        |       |               |        | ALL LINES HELD PRESSURE @ 2715 PSI  |
| Pump Spacer 1                         | 05/19/2011 12:59 |       | 6            | 20         |       |               | 236.0  | FRESH WATER   |
| Pump Spacer 2                         | 05/19/2011 13:04 |       | 6            | 20         |       |               | 142.0  | LGC SPACER  |

| Activity Description | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|----------------------|------------------|-------|--------------|------------|-------|---------------|--------|--|
|                      |                  |       |              | Stage      | Total | Tubing        | Casing |  |
| Pump Spacer 1        | 05/19/2011 13:08 |       | 6            | 20         |       |               | 236.0  | FRESH WATER  |
| Pump Lead Cement     | 05/19/2011 13:11 |       | 8            | 435.7      |       |               | 430.0  | 1050 SKS, 12.3 PPG, 2.33 FT3/SK, 12.62 GAL/SK, SET UP TIME 4:28 @ 70 BC.     |
| Pump Tail Cement     | 05/19/2011 14:12 |       | 8            | 62.7       |       |               | 385.0  | 170 SKS, 12.8 PPG, 2.07 FT3/ SK, 11.10.67 GAL/SK, SET UP TIME 4:28 @ 70 BC   |
| Shutdown             | 05/19/2011 14:20 |       |              |            |       |               |        |  |
| Drop Top Plug        | 05/19/2011 14:20 |       |              |            |       |               |        | PLUG WENT  |
| Pump Displacement    | 05/19/2011 14:21 |       | 8            | 195        |       |               | 815.0  | FRESH WATER  |
| Slow Rate            | 05/19/2011 14:45 |       | 2            | 10         |       |               | 550.0  |  |
| Bump Plug            | 05/19/2011 14:48 |       |              |            |       |               |        | PLUG BUMPED, BUMPED 500 PSI OVER TOP PSI PRIOR TO SLOWING RATE PER COMP REP. |
| Check Floats         | 05/19/2011 14:52 |       |              |            |       |               |        | FLOATS HELD  |
| Other                | 05/19/2011 14:56 |       | 0.5          | 0.5        |       |               | 1500.0 | PRESSURE TEST CASEING @ 1500 PSI FOR 30 MIN.                                 |
| Other                | 05/19/2011 15:31 |       | 3            | 10         |       |               | 950.0  | PUMP DOWN PARASITE WITH SUGAR WATER  |
| Pump Cement          | 05/19/2011 16:47 |       | 2            | 19         |       |               | 98.0   | 54 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, TOP OUT                         |
| Other                | 05/19/2011 16:56 |       | 2            | 2          |       |               | 90.0   | CLEAN LINES  |
| Shutdown             | 05/19/2011 16:57 |       |              |            |       |               |        | WAIT FOR NEXT TOP OUT  |
| Pump Cement          | 05/19/2011 17:48 |       | 2            | 24         |       |               | 105.0  | 69 SKS, 12.5 PPG, 1.97 FT3/SK, 10.96 GAL/SK, TOP OUT                         |
| Other                | 05/19/2011 17:59 |       | 2            | 2          |       |               | 95.0   | CLEAN LINES  |
| Shutdown             | 05/19/2011 18:00 |       |              |            |       |               |        |  |
| Activity Description | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|                      |                  |       |              | Stage      | Total | Tubing        | Casing |  |

## *Cementing Job Log*

|   |                     |  |  |  |  |  |  |  |
|---|---------------------|--|--|--|--|--|--|--|
| End Job                                   | 05/19/2011<br>18:01 |  |  |  |  |  |  | NO CIRCULATION<br>DURING JOB, 0 BBLs<br>OF CMT TO SURFACE<br>DURING PRIMARY<br>JOB, PIPE WAS NOT<br>MOVED, NO CEMENT<br>TO SURFACE ON<br>FIRST TOP OUT, 2 BBL<br>OF CEMENT TO<br>SURFACE ON<br>SECOND TOP OUT. |
| Post-Job Safety Meeting (Pre<br>Rig-Down) | 05/19/2011<br>18:20 |  |  |  |  |  |  | ALL HES PERSONEL   |
| Rig-Down Completed                        | 05/19/2011<br>18:50 |  |  |  |  |  |  |  |
| Depart Location Safety<br>Meeting         | 05/19/2011<br>19:00 |  |  |  |  |  |  | ALL HES PERSONEL   |
| Crew Leave Location                       | 05/19/2011<br>19:10 |  |  |  |  |  |  |  |
| Other                                     | 05/19/2011<br>19:11 |  |  |  |  |  |  | THANK YOU FOR<br>CHOOSING<br>HALLIBURTON, CHRIS<br>SMITH AND CREW  |

## JOB PROCEDURE

# HP353

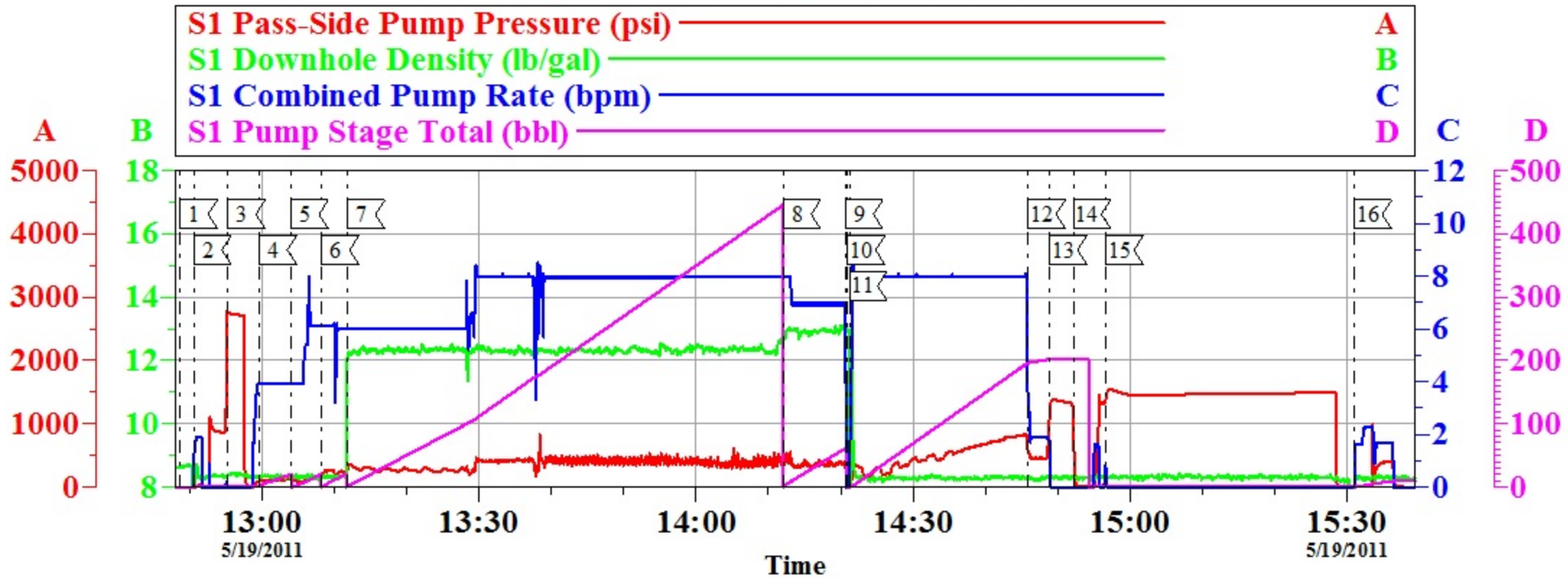
## Pre-Planned Job Procedure Single Stage

| EVENT #                     | EVENT                  | VOLUME                                | SACKS               | WEIGHT                    | YIELD  | GAL/ SK  |
|-----------------------------|------------------------|---------------------------------------|---------------------|---------------------------|--------|----------|
| 1                           | Start Job              |                                       | MAX PSI 1616        |                           |        |          |
| 6                           | Test Lines             | 2000.0                                |                     |                           |        |          |
| 9                           | H2O Spacer             | 20.0                                  |                     |                           |        |          |
| 10                          | LGC Spacer             | 20.0                                  |                     |                           |        |          |
| 10                          | H2O Spacer             | 20.0                                  |                     |                           |        |          |
| 13                          | Lead Cement            | 435.7                                 | 1050                | 12.3                      | 2.33   | 12.62    |
| 15                          | Tail Cement            | 62.7                                  | 170                 | 12.8                      | 2.07   | 10.67    |
|                             | SHUTDOWN               |                                       |                     |                           |        |          |
|                             | DROP PLUG              |                                       |                     |                           |        |          |
| 22                          | Displacement           | 205.0                                 |                     | Mud Wt.                   | 9.2    |          |
| 1085                        | Slow Rate              | 195.0                                 |                     | Casing                    | 9.625  | 36       |
| 26                          | Land Plug              | 558                                   |                     | Open Hole                 | 14.75  |          |
|                             | Release Psi / Job Over | 1058                                  |                     |                           |        |          |
|                             | Check Floats           |                                       |                     |                           |        |          |
| 22                          | END JOB                |                                       |                     |                           |        |          |
|                             |                        |                                       |                     | Disp Fluid                | 8.33   |          |
|                             |                        |                                       |                     |                           |        |          |
|                             |                        |                                       |                     |                           |        |          |
|                             |                        |                                       | Do Not Overdisplace |                           |        |          |
| DISPLACEMENT                | TOTAL PIPE             | SHOE JOINT LENGTH                     |                     | ANN FACTOR                | BBL/FT | H2O REQ. |
| 205.00                      | 2701                   | 49.00                                 |                     | 0.1214                    | 0.0773 | 624      |
| PSI to Lift Pipe            | 1148.5                 | *****Use Mud Scales on Each Tier***** |                     |                           |        |          |
| Total Displacement          | 205.00                 |                                       |                     |                           |        |          |
| CALCULATED DIFFERENTIAL PSI |                        | 558                                   |                     | TOTAL FLUID PUMPED        |        | 763      |
| Collapse                    | 2020                   | Burst                                 | 3520                |                           | S.O.#  | 8171888  |
| HOT                         | 485.1                  | TOT                                   | 2215.9              | Company Rep: HENRY COOMBS |        |          |
| Bbls to Pit                 | 166.7                  |                                       |                     |                           |        |          |



# OXY

9.625" SURFACE/ CC 697-09-10A



| Local Event Log |                       |                |         |                    |                |
|-----------------|-----------------------|----------------|---------|--------------------|----------------|
| Maximum         |                       |                | Maximum |                    |                |
|                 |                       | SPPP           |         |                    | SPPP           |
| 1               | START JOB             | 12:48:40 1.000 | 2       | FILL LINES         | 12:50:34 2769  |
| 3               | TEST LINES            | 12:55:16 2761  | 4       | PUMP H2O SPACER    | 12:59:38 117.0 |
| 5               | PUMP LGC SPACER       | 13:04:01 177.0 | 6       | PUMP H2O SPACER    | 13:08:13 294.1 |
| 7               | PUMP LEAD CEMENT      | 13:11:49 844.0 | 8       | PUMP TAIL CEMENT   | 14:12:04 562.0 |
| 9               | SHUTDOWN              | 14:20:39 402.0 | 10      | DROP PLUG          | 14:20:58 58.00 |
| 11              | PUMP H2O DISPLACEMENT | 14:21:15 838.0 | 12      | SLOW RATE          | 14:45:56 1155  |
| 13              | BUMP PLUG             | 14:48:55 1380  | 14      | CHECK FLOATS       | 14:52:11 1448  |
| 15              | PRESSURE TEST CASING  | 14:56:43 1539  | 16      | PUMP DOWN PARASITE | 15:31:03 988.0 |

Customer: OXY GRAND JUNCTION EBUSINESS  
Well Description: CC 697-09-10A  
Customer Rep: HENRY COOMBS

Job Date: 19-May-2011  
Job type: 05-04520024  
Service Supervisor: C. SMITH

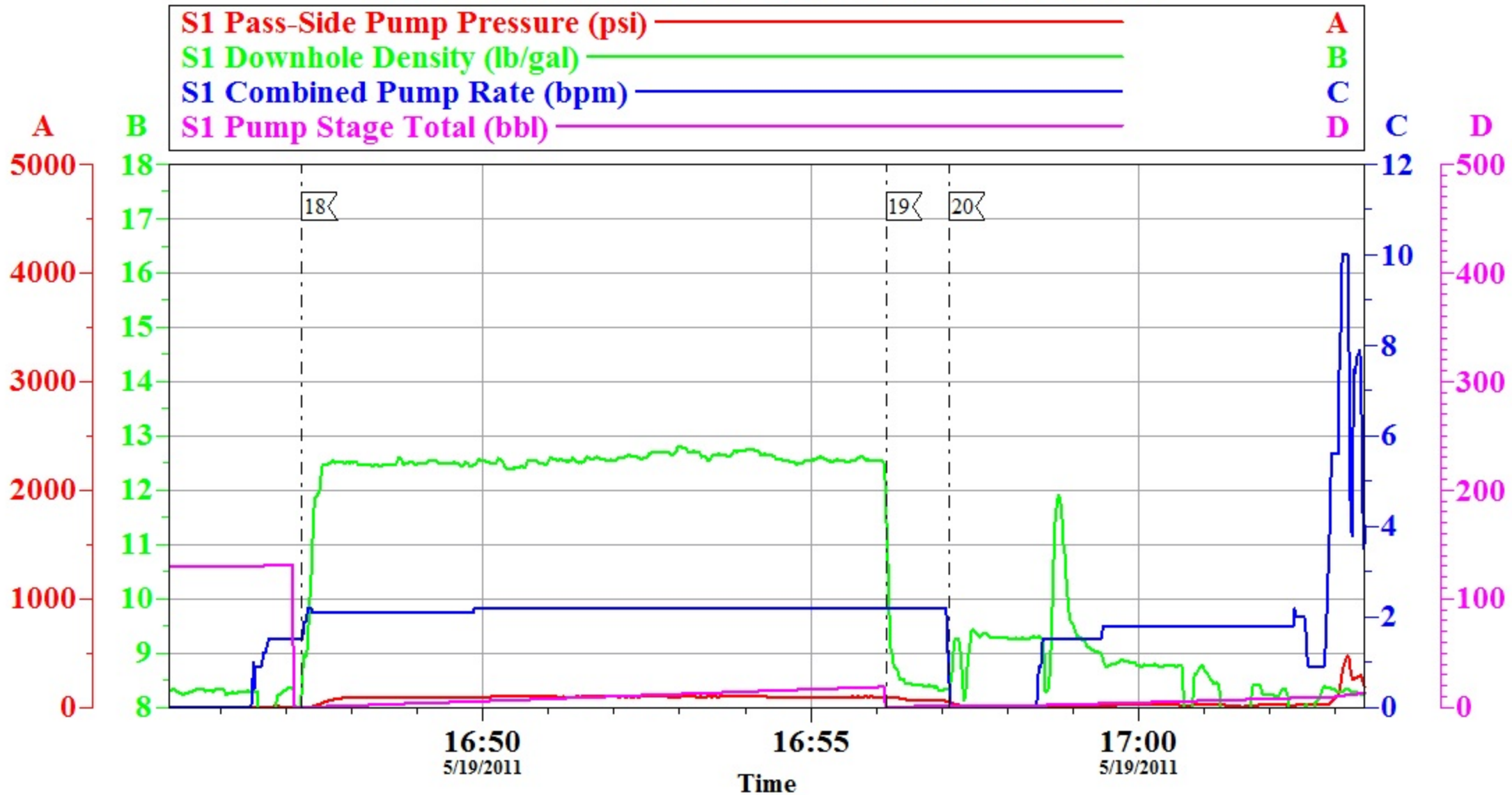
Sales Order #: 8171888  
ADC Used: YES  
Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9  
19-May-11 16:22



# OXY

## 9.625" SURFACE TOP OUT #1/ CC 697-09-10A



### Local Event Log

| Maximum |                     |          |       | SPPP |             | Maximum  |       |  |  | SPPP |  |
|---------|---------------------|----------|-------|------|-------------|----------|-------|--|--|------|--|
| 18      | PUMP TOP OUT CEMENT | 16:47:14 | 104.0 | 19   | CLEAN LINES | 16:56:09 | 92.00 |  |  |      |  |
| 20      | SHUTDOWN            | 16:57:06 | 475.0 |      |             |          |       |  |  |      |  |

Customer: OXY GRAND JUNCTION EBUSINESS  
 Well Description: CC 697-09-10A  
 Customer Rep: HENRY COOMBS

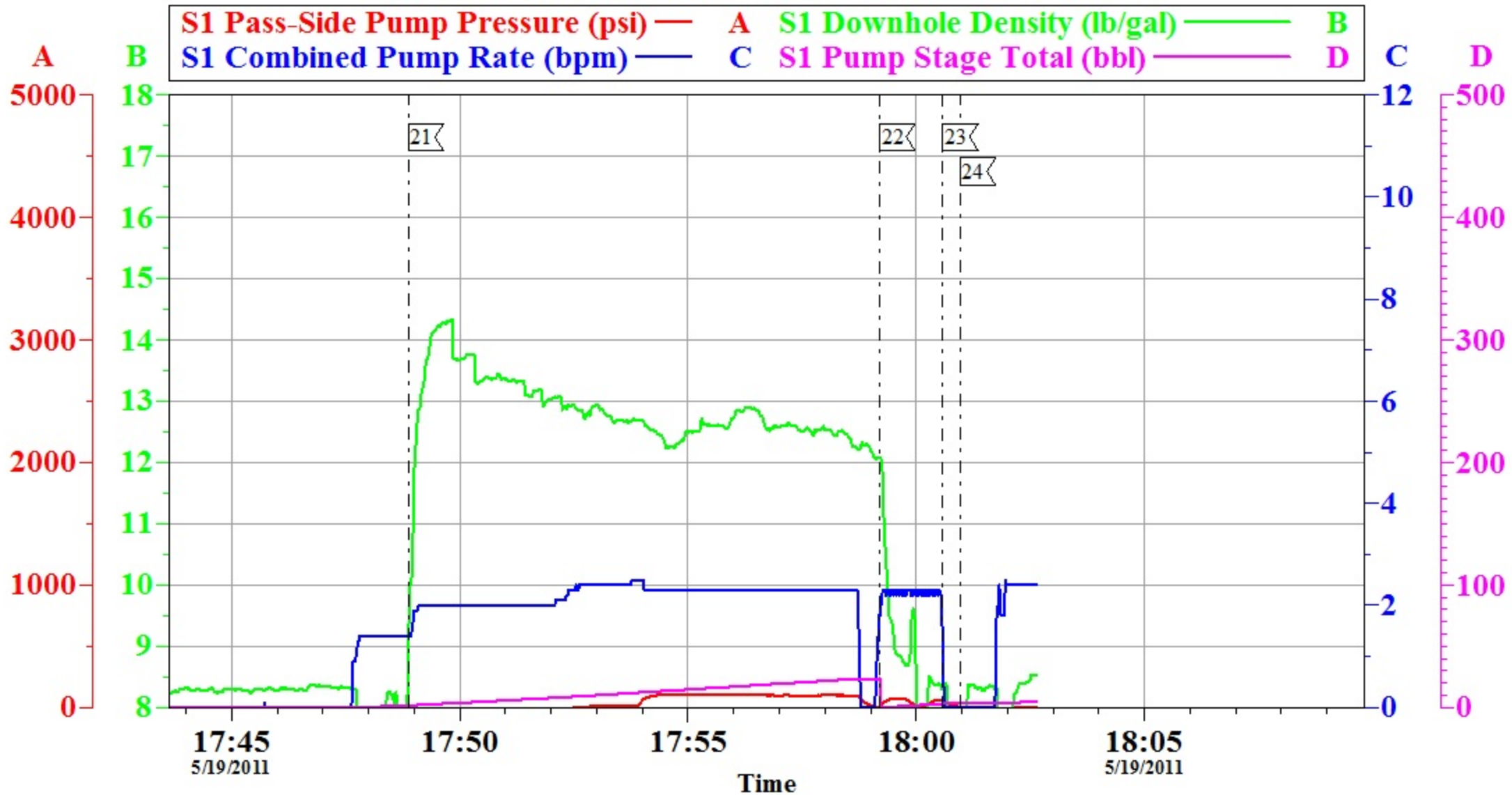
Job Date: 19-May-2011  
 Job type: 05-04520024  
 Service Supervisor: C. SMITH

Sales Order #: 8171888  
 ADC Used: YES  
 Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9  
 19-May-11 17:03

# OXY

## 9.625" SURFACE TOP OUT #2/ CC 697-09-10A



### Local Event Log

| Maximum |                     |          | SPPP  | Maximum |             |          | SPPP  |
|---------|---------------------|----------|-------|---------|-------------|----------|-------|
| 21      | PUMP TOP OUT CEMENT | 17:48:52 | 110.0 | 22      | CLEAN LINES | 17:59:11 | 69.00 |
| 23      | SHUTDOWN            | 18:00:34 | 63.00 | 24      | END JOB     | 18:00:57 | 7.000 |

Customer: OXY GRAND JUNCTION EBUSINESS  
 Well Description: CC 697-09-10A  
 Customer Rep: HENRY COOMBS

Job Date: 19-May-2011  
 Job type: 05-04520024  
 Service Supervisor: C. SMITH

Sales Order #: 8171888  
 ADC Used: YES  
 Operator/ Pump: J. HAYES/ E4

OptiCem v6.4.9  
 19-May-11 18:10

# HALLIBURTON

## Water Analysis Report

|               |                      |            |                   |
|---------------|----------------------|------------|-------------------|
| Company:      | <u>Oxy</u>           | Date:      | <u>05.19.2011</u> |
| Submitted by: | <u>Chris Smith</u>   | Date Rec.: | <u>05.19.2011</u> |
| Attention:    | <u>J.Trout</u>       | S.O.#      | <u>8171888</u>    |
| Lease         | <u>HP353</u>         | Job Type:  | <u>SURFACE</u>    |
| Well #        | <u>CC 697-09-10A</u> |            |                   |

|                             |              |                       |
|-----------------------------|--------------|-----------------------|
| Specific Gravity            | <i>MAX</i>   | <i>1</i>              |
| pH                          | <i>8</i>     | <i>7</i>              |
| Potassium (K)               | <i>5000</i>  | <i>450</i> Mg / L     |
| Hrdness                     | <i>500</i>   | <i>250</i> Mg / L     |
| Iron (FE2)                  | <i>300</i>   | <i>0</i> Mg / L       |
| Chlorides (Cl)              | <i>3000</i>  | <i>0</i> Mg / L       |
| Sulfates (SO <sub>4</sub> ) | <i>1500</i>  | <i>&lt;200</i> Mg / L |
| Temp                        | <i>40-80</i> | <i>50</i> Deg         |
| Total Dissolved Solids      |              | <i>380</i> Mg / L     |

Respectfully: Chris Smith

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 repor

|  |  |   |
|--|--|---|
| <b>Sales Order #:</b><br>8171888                 | <b>Line Item:</b><br>10                          | <b>Survey Conducted Date:</b><br>5/19/2011                |
| <b>Customer:</b><br>OXY GRAND JUNCTION EBUSINESS |  | <b>Job Type (BOM):</b><br>CMT SURFACE CASING BOM          |
| <b>Customer Representative:</b><br>HENRY COMBS   |  | <b>API / UWI: (leave blank if unknown)</b><br>05-04520024 |
| <b>Well Name:</b><br>CC                          |  | <b>Well Number:</b><br>697-09-10A                         |
| <b>Well Type:</b><br>Development Well            | <b>Well Country:</b><br>United States of America |   |
| <b>H2S Present:</b>                              | <b>Well State:</b><br>Colorado                   | <b>Well County:</b><br>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                                    | 5/19/2011                   |
| Survey Interviewer      | The survey interviewer is the person who initiated the survey.       | CHRISTOPHER SMITH (HB20137) |
| Customer Participation  | Did the customer participate in this survey? (Y/N)                   | Yes                         |
| Customer Representative | Enter the Customer representative name                               | HENRY COMBS                 |
| 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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| <b>H2S Present:</b>                              | <b>Well State:</b><br>Colorado                   | <b>Well County:</b><br>Garfield                           |

### KEY PERFORMANCE INDICATORS

| General                           |           |
|-----------------------------------|-----------|
| <b>Survey Conducted Date</b>      | 5/19/2011 |
| The date the survey was conducted |           |

| Cementing KPI Survey  |                         |
|---|-------------------------|
| <b>Type of Job</b>  | 0                       |
| Select the type of job. (Cementing or Non-Cementing)  |                         |
| <b>Select the Maximum Deviation range for this Job</b>  | Vertical                |
| What is the highest deviation for the job you just completed? This may not be the maximum well deviation.   |                         |
| <b>Total Operating Time (hours)</b>   | 6                       |
| Total Operating Hours Including Rig-up, Pumping, Rig-down. Enter in decimal format.   |                         |
| <b>HSE Incident, Accident, Injury</b>   | No                      |
| HSE Incident, Accident, Injury. This should be recordable incidents only.   |                         |
| <b>Was the job purpose achieved?</b>  | Yes                     |
| Was the job delivered correctly as per customer agreed design?  |                         |
| <b>Operating Hours (Pumping Hours)</b>  | 5.5                     |
| Total number of hours pumping fluid on this job. Enter in decimal format.   |                         |
| <b>Customer Non-Productive Rig Time (hrs)</b>   | 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. |                         |
| <b>Type of Rig Classification Job Was Performed</b>   | Drilling Rig (Portable) |
| Type Of Rig (classification) Job Was Performed On   |                         |
| <b>Number Of JSAs Performed</b>   | 7                       |
| Number Of Jsas Performed  |                         |
| <b>Number of Unplanned Shutdowns</b>  | 0                       |
| Unplanned shutdown is when injection stops for any period of time.  |                         |
| <b>Was this a Primary Cement Job (Yes / No)</b>   | Yes                     |

|  |  |   |
|--|--|---|
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|  |     |
|--|-----|
| Primary Cement Job= Casing job, Liner job, or Tie-back job.  |     |
| <b>Did We Run Wiper Plugs?</b><br>Did We Run Top And Bottom Casing Wiper Plugs?  | Top |
| <b>Mixing Density of Job Stayed in Designed Density Range (0-100%)</b><br>Density Range defined as +/- .20 ppg. Calculation: Total BBLs cement mixed at designed density divided by total BBLs of cement multiplied by 100       | 97  |
| <b>Was Automated Density Control Used?</b><br>Was Automated Density Control (ADC) Used ?   | Yes |
| <b>Pump Rate (percent) of Job Stayed At Designed Pump Rate</b><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 | 96  |
| <b>Nbr of Remedial Sqz Jobs Rqd - Competition</b><br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By Competition   | 0   |
| <b>Nbr of Remedial Plug Jobs Rqd - HES</b><br>Number Of Remedial Plug Jobs Needed After Primary Plug Pumped By HES   | 0   |
| <b>Nbr of Remedial Sqz Jobs Rqd - HES</b><br>Number Of Remedial Squeeze Jobs Required After Primary Job Performed By HES   | 0   |