

# HALLIBURTON

## Cementing Job Summary

*The Road to Excellence Starts with Safety*

|                                    |  |                      |                                 |                           |  |                            |                 |
|------------------------------------|--|----------------------|---------------------------------|---------------------------|--|----------------------------|-----------------|
| Sold To #: 356801                  |  | Ship To #: 2783559   |                                 | Quote #:                  |  | Sales Order #: 7359382     |                 |
| Customer: PINE RIDGE OIL & GAS LLC |  |                      |                                 | Customer Rep: Felman, Moe |  |                            |                 |
| Well Name: Apache Gold             |  |                      | Well #: 34-20                   |                           |  | API/UWI #: 05-043-06185-00 |                 |
| Field: FURY                        |  | City (SAP): FLORENCE |                                 | County/Parish: Fremont    |  |                            | State: Colorado |
| Contractor: FORT                   |  |                      | Rig/Platform Name/Num: FORT 5   |                           |  |                            |                 |
| Job Purpose: Cement Surface Casing |  |                      |                                 |                           |  |                            |                 |
| Well Type: Development Well        |  |                      | Job Type: Cement Surface Casing |                           |  |                            |                 |
| Sales Person: JACOBS, JESS         |  |                      | Srvc Supervisor: VALDEZ, JOHN   |                           |  | MBU ID Emp #: 316200       |                 |

### Job Personnel

| HES Emp Name     | Exp Hrs | Emp #  | HES Emp Name     | Exp Hrs | Emp #  | HES Emp Name   | Exp Hrs | Emp #  |
|------------------|---------|--------|------------------|---------|--------|----------------|---------|--------|
| COPELAND, GEORGE |         | 429242 | PETERSON, GARY L |         | 122020 | SINCLAIR, RICK |         | 368195 |
| VALDEZ, JOHN Ray |         | 316200 |                  |         |        |                |         |        |

### Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10241536C  | 100 mile       | 10248039   | 100 mile       | 10857080C  | 100 mile       | 10951205   | 100 mile       |
| 10977079C  | 100 mile       | 10246780   | 100 mile       |            |                |            |                |

### Job Hours

| Date    | On Location Hours                          | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|---------|--|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 5-13-10 | 6  | 3               |      |                   |                 |      |                   |                 |
| 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    |             | 12 - May - 2010 | 21:00           | MST       |     |
| Form Type              |  |         |  |                   | BHST   |         |  |               | On Location |                 | 13 - May - 2010 | 02:00     | MST |
| Job depth MD           |  | 680. ft |  | Job Depth TVD     |        | 680. ft |  | Job Started   |             | 13 - May - 2010 | 06:20           | MST       |     |
| Water Depth            |  |         |  | Wk Ht Above Floor |        | 4. ft   |  | Job Completed |             | 13 - May - 2010 | 07:40           | MST       |     |
| Perforation Depth (MD) |  | From    |  |                   | To     |         |  | Departed Loc  |             | 13 - May - 2010 | 08:30           | 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 |
|----------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
| Open Hole      |            |                   |         | 12.25 |               |        |       |           | 680.         |            |               |
| Surface Casing | Unknown    |                   | 9.625   | 9.001 | 32.3          | 8 RD   | J-55  |           | 680.         |            |               |

### Sales/Rental/3<sup>rd</sup> 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  |   |

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## Cementing Job Summary

| Fluid Data                               |                |   |        |                                       |                        |                           |                  |              |                        |
|--|----------------|---|--------|---------------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| Stage/Plug #: 1                          |                |   |        |                                       |                        |                           |                  |              |                        |
| Fluid #                                  | Stage Type     | Fluid Name  | Qty    | Qty uom                               | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1  | Water Spacer   |   | 10.00  | bbl                                   | 8.33                   | .0                        | .0               | .0           |                        |
| 2  | Lead Cement    | HALLIBURTON LIGHT STANDARD - SBM (12313)                | 195.0  | sacks                                 | 13.3                   | 1.62                      | 8.1              | 5.0          | 8.1                    |
|  | 0.25 lbm       | POLY-E-FLAKE (101216940)                                |        |                                       |                        |                           |                  |              |                        |
|  | 3 %            | CALCIUM CHLORIDE, PELLET, 50 LB (101509387)             |        |                                       |                        |                           |                  |              |                        |
|  | 8.1 Gal        | FRESH WATER   |        |                                       |                        |                           |                  |              |                        |
| 3  | Tail Cement    | CMT - PREMIUM - CLASS G, 94 LB SK (100003685)           | 100.0  | sacks                                 | 14.5                   | 1.41                      | 6.83             | 5.0          | 6.83                   |
|  | 94 lbm         | CMT - PREMIUM - CLASS G REG OR TYPE V, BULK (100003685) |        |                                       |                        |                           |                  |              |                        |
|  | 2 %            | CALCIUM CHLORIDE, PELLET, 50 LB (101509387)             |        |                                       |                        |                           |                  |              |                        |
|  | 0.25 lbm       | POLY-E-FLAKE (101216940)                                |        |                                       |                        |                           |                  |              |                        |
|  | 6.83 Gal       | FRESH WATER   |        |                                       |                        |                           |                  |              |                        |
| 4  | Top off Cement | CMT - STANDARD TYPE I / II CEMENT (101439798)           |        | sacks                                 | 15.8                   | 1.15                      | 5.0              |              | 5.0                    |
|  | 94 lbm         | TYPE I / II CEMENT, BULK (101439798)                    |        |                                       |                        |                           |                  |              |                        |
|  | 2 %            | CALCIUM CHLORIDE, PELLET, 50 LB (101509387)             |        |                                       |                        |                           |                  |              |                        |
|  | 5 Gal          | FRESH WATER   |        |                                       |                        |                           |                  |              |                        |
| Calculated Values                        |                | Pressures   |        | Volumes                               |                        |                           |                  |              |                        |
| Displacement                             | 51             | Shut In: Instant  |        | Lost Returns                          |                        | Cement Slurry             | 81               | Pad          |                        |
| Top Of Cement                            | surface        | 5 Min   |        | Cement Returns                        | 29                     | Actual Displacement       | 51               | Treatment    |                        |
| Frac Gradient                            |                | 15 Min  |        | Spacers                               | 10                     | Load and Breakdown        |                  | Total Job    |                        |
| Rates                                    |                |   |        |                                       |                        |                           |                  |              |                        |
| Circulating                              | 2              | Mixing  | 4      | Displacement                          | 3                      | Avg. Job                  | 3                |              |                        |
| Cement Left In Pipe                      | Amount         | 40 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<br> |                        |                           |                  |              |                        |

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## Cementing Job Log

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|  |                            |   |                        |
|--|----------------------------|---|------------------------|
| Sold To #: 356801                        | Ship To #: 2783559         | Quote #:                                  | Sales Order #: 7359382 |
| Customer: PINE RIDGE OIL & GAS LLC       |                            | Customer Rep: Felman, Moe                 |                        |
| Well Name: Apache Gold                   | Well #: 34-20 <del>2</del> | API/UWI #: 05-043-06185-00                |                        |
| Field: FURY                              | City (SAP): FLORENCE       | County/Parish: Fremont                    | State: Colorado        |
| Legal Description:                       |                            |   |                        |
| Lat: N 0 deg. OR N 0 deg. 0 min. 0 secs. |                            | Long: E 0 deg. OR E 0 deg. 0 min. 0 secs. |                        |
| Contractor: FORT                         |                            | Rig/Platform Name/Num: FORT 5             |                        |
| Job Purpose: Cement Surface Casing       |                            |   | Ticket Amount:         |
| Well Type: Development Well              |                            | Job Type: Cement Surface Casing           |                        |
| Sales Person: JACOBS, JESS               |                            | Srv Supervisor: VALDEZ, JOHN              | MBU ID Emp #: 316200   |

| Activity Description          | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments  |
|-------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
|                               |                  |       |              | Stage      | Total | Tubing        | Casing |   |
| Arrive At Loc                 | 05/13/2010 02:00 |       |              |            |       |               |        | Running casing  |
| Pre-Rig Up Safety Meeting     | 05/13/2010 05:00 |       |              |            |       |               |        |   |
| Rig-Up Equipment              | 05/13/2010 05:10 |       |              |            |       |               |        |   |
| Pre-Job Safety Meeting        | 05/13/2010 06:00 |       |              |            |       |               |        | TD 680'. No float collar due to LCM, calculated displacement to leave 40' shoe. |
| Test Lines                    | 05/13/2010 06:23 | 1     |              |            |       |               |        | Test lines to 2300 psi.   |
| Pump Water                    | 05/13/2010 06:24 | 2     | 1.6          | 10         |       |               | 40.0   | 10 bbl water ahead.   |
| Pump Lead Cement              | 05/13/2010 06:30 | 3     | 4            | 56         |       |               | 135.0  | 195 sks HLC lead cement at 13.3 ppg.  |
| Pump Tail Cement              | 05/13/2010 06:43 | 4     | 4            | 25         |       |               | 140.0  | 100 sks Premium tail cement at 14.5 ppg   |
| Drop Top Plug                 | 05/13/2010 06:50 | 5     | 1            |            |       |               |        | Drop plug on the fly.   |
| Pump Displacement             | 05/13/2010 06:51 | 6     | 4            | 51         |       |               | 150.0  | Displace with 51 bbl water to leave 40' shoe.                                   |
| Cement Returns to Surface     | 05/13/2010 06:56 | 7     | 3            |            | 22    |               | 130.0  | Slowed rate to 3 bpm at 22 away, cement to surface.                             |
| Other                         | 05/13/2010 07:03 | 8     | 1            |            | 43    |               | 185.0  | Slow to 1 bpm for last 8 bbl.   |
| Shutdown                      | 05/13/2010 07:08 | 9     |              |            |       |               |        | Close in well, break off lines, watch cement 30 min.                            |
| End Job                       | 05/13/2010 07:40 |       |              |            |       |               |        | Cement staying in place, end job  |
| Safety Meeting - Pre Rig-Down | 05/13/2010 08:40 |       |              |            |       |               |        |   |

Sold To #: 356801

Ship To #: 2783559

Quote #:

Sales Order #: 7359382

SUMMIT Version: 7.20.130

Thursday, May 13, 2010 09:07:00

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## *Cementing Job Log*

| Activity Description                                | Date/Time           | Cht<br># | Rate<br>bbl/<br>min | Volume<br>bbl |       | Pressure<br>psig |        | Comments |
|---|---------------------|----------|---------------------|---------------|-------|------------------|--------|----------|
|   |                     |          |                     | Stage         | Total | Tubing           | Casing |          |
| Rig-Down Equipment                                  | 05/13/2010<br>08:40 |          |                     |               |       |                  |        |          |
| Safety Meeting - Departing<br>Location              | 05/13/2010<br>08:40 |          |                     |               |       |                  |        |          |
| Depart Location for Service<br>Center or Other Site | 05/13/2010<br>08:40 |          |                     |               |       |                  |        |          |

Sold To # : 356801

Ship To # : 2783559

Quote # :

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Thursday, May 13, 2010 09:07:00