



KANSAS CORPORATION COMMISSION 1060026  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34269  
Name: Apache Corporation  
Address 1: 2000 POST OAK BLVD, STE 100  
Address 2:  
City: HOUSTON State: TX Zip: 77056 +  
Contact Person: Danny Chaney  
Phone: ( 713 ) 296-6000  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Karl Graham  
Purchaser: NA

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SLOW  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.): Not producing

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled Permit #: \_\_\_\_\_  
 Dual Completion Permit #: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  
 GSW Permit #: \_\_\_\_\_

04/06/2011 04/12/2011 05/26/2011  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-119-21286-00-00

Spot Description:  
E2\_W2\_NW\_NE Sec. 33 Twp. 34 S. R. 26  East  West  
660 Feet from  North /  South Line of Section  
2220 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: Meade

Lease Name: DECKARD Well #: 1-33

Field Name: McKinney

Producing Formation: Cherokee

Elevation: Ground: 2335 Kelly Bushing: 2355

Total Depth: 6250 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 1623 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 5400 ppm Fluid volume: 100 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Gerriso Date: 08/03/2011



1060026

Operator Name: Apache Corporation Lease Name: DECKARD Well #: 1-33  
 Sec. 33 Twp. 34 S. R. 26  East  West County: Meade

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|   |   |       |     |       |          |      |       |        |      |       |         |      |       |
|---|---|-------|-----|-------|----------|------|-------|--------|------|-------|---------|------|-------|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><br>CPD/CN/ML | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br><table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Cherokee</td> <td>5866</td> <td>-3511</td> </tr> <tr> <td>Morrow</td> <td>6000</td> <td>-3645</td> </tr> <tr> <td>Chester</td> <td>6066</td> <td>-3711</td> </tr> </table> | Name  | Top | Datum | Cherokee | 5866 | -3511 | Morrow | 6000 | -3645 | Chester | 6066 | -3711 |
| Name  | Top   | Datum |     |       |          |      |       |        |      |       |         |      |       |
| Cherokee  | 5866  | -3511 |     |       |          |      |       |        |      |       |         |      |       |
| Morrow  | 6000  | -3645 |     |       |          |      |       |        |      |       |         |      |       |
| Chester   | 6066  | -3711 |     |       |          |      |       |        |      |       |         |      |       |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc.           |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| Surface   | 12.25             | 8.625                     | 24                | 1623          | A              | 650          |                            |
| Production  | 7.875             | 5.5                       | 17                | 6256          | Pox Prem 50/5C | 350          |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD         |                  |                |              |                            |
|---|------------------|----------------|--------------|----------------------------|
| Purpose:                                      | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input checked="" type="checkbox"/> Perforate |                  |                |              |                            |
| <input type="checkbox"/> Protect Casing       | -                |                |              |                            |
| <input type="checkbox"/> Plug Back TD         | -                |                |              |                            |
| <input type="checkbox"/> Plug Off Zone        | -                |                |              |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth     |
|----------------|---|--|-----------|
|                | 5926-5872   | Foamed Acid  | 5826-5870 |
| 6              | 6050-6094   |  |           |
|                |   |  |           |
|                |   |  |           |

|   |   |
|---|---|
| TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>5992</u> Packer At: <u>5992</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |   |
| Date of First, Resumed Production, SWD or ENHR.   | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Well is Shut In</u> |
| Estimated Production Per 24 Hours   | Oil Bbls. <u>0</u> Gas Mcf <u>0</u> Water Bbls. <u>0</u> Gas-Oil Ratio _____ Gravity _____  |

|  |   |  |
|--|---|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i><br><input checked="" type="checkbox"/> Other (Specify) <u>Produced 1 day, then shut in</u> | PRODUCTION INTERVAL:<br>_____<br>_____ |
|--|---|--|

HALLIBURTON

# Cementing Job Summary

The Road to Excellence Starts with Safety

|  |                    |                                 |                        |
|--|--------------------|---------------------------------|------------------------|
| Sold To #: 300496                                    | Ship To #: 2847282 | Quote #:                        | Sales Order #: 8086008 |
| Customer: APACHE CORP                                |                    | Customer Rep: Stanley, Josh     |                        |
| Well Name: Deckard                                   | Well #: 1-33       | API/UWI #: 15-119-21286         |                        |
| Field:   | City (SAP): MEADE  | County/Parish: Meade            | State: Kansas          |
| Legal Description: Section 33 Township 34S Range 26W |                    |                                 |                        |
| Contractor: Duke Drilling                            |                    | Rig/Platform Name/Num: 6        |                        |
| Job Purpose: Cement Surface Casing                   |                    |                                 |                        |
| Well Type: Development Well                          |                    | Job Type: Cement Surface Casing |                        |
| Sales Person: MEREDITH, JERRY                        |                    | Srvc Supervisor: SMITH, BOBBY   | MBU ID Emp #: 106036   |

**Job Personnel**

| HES Emp Name             | Exp Hrs | Emp #  | HES Emp Name       | Exp Hrs | Emp #  | HES Emp Name  | Exp Hrs | Emp #  |
|--------------------------|---------|--------|--------------------|---------|--------|---------------|---------|--------|
| AGUILERA, FABIAN<br>J    | 8       | 442123 | GOMEZ, OSCAR       | 8       | 490448 | LOPEZ, JUAN R | 8       | 198514 |
| MCJILTON, LONDON<br>Kyle | 8       | 489077 | SMITH, BOBBY Wayne | 8       | 106036 |               |         |        |

**Equipment**

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10240239   | 45 mile        | 10240245   | 45 mile        | 10243558   | 45 mile        | 10744298C  | 45 mile        |
| 10866807   | 45 mile        | 10949718   | 45 mile        | 10998524   | 45 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**

**Job Times**

| Formation Name                               | Date          | Time            | Time Zone |
|--|---------------|-----------------|-----------|
| Formation Depth (MD) Top Bottom              | Called Out    | 07 - Apr - 2011 | 05:00 CST |
| Form Type BHST 75 degF                       | On Location   | 07 - Apr - 2011 | 08:00 CST |
| Job depth MD 1623. ft Job Depth TVD 1626. ft | Job Started   | 07 - Apr - 2011 | 12:29 CST |
| Water Depth Wk Ht Above Floor 4. ft          | Job Completed | 07 - Apr - 2011 | 13:47 CST |
| Perforation Depth (MD) From To               | Departed Loc  | 07 - Apr - 2011 | 15:30 CST |

**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 |
|---------------------------|------------|-------------------|---------|--------|---------------|-------------|-------|-----------|--------------|------------|---------------|
| 12-1/4" Surface Open Hole |            |                   |         | 12.25  |               |             |       | 80.       | 1600.        |            |               |
| 20" Pre-Set Conductor     | New        |                   | 20.     | 19.124 | 94.           |             |       |           | 80.          |            |               |
| 8-5/8" Surface Casing     | New        |                   | 8.625   | 8.097  | 24.           | 8 RD (ST&C) | J-55  |           | 1600.        |            |               |

**Sales/Rental/3<sup>rd</sup> Party (HES)**

| Description                                   | Qty | Qty uom | Depth | Supplier |
|---|-----|---------|-------|----------|
| SHOE, GID, 8-5/8 8RD                          | 1   | EA      |       |          |
| CENTRALIZER ASSY - API - 8-5/8 CSG X          | 5   | EA      |       |          |
| HALLIBURTON WELD-A KIT                        | 1   | EA      |       |          |
| CLAMP - LIMIT - 8-5/8 - HINGED -              | 2   | EA      |       |          |
| BASKET - CEMENT - 8 5/8 CSG X 12 1/4          | 1   | EA      |       |          |
| PLUG, CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA | 1   | EA      |       |          |
| CLR, FLT, TROPHY SEAL, 8-5/8 8RD              | 1   | EA      |       |          |
| AUTOFILL KIT, TROPHY SEAL                     | 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 #         | 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               | Lead Cement      | MIDCON-2 CEMENT STANDARD - SBM (15078)                   | 450.0  | sacks   | 11.4                   | 2.95                      | 18.09            | 8.0          | 18.09                  |  |
|                 | 3 %              | CALCIUM CHLORIDE - HI TEST PELLET (100005053)            |        |         |                        |                           |                  |              |                        |  |
|                 | 0.5 lbm          | POLY-E-FLAKE (101216940)                                 |        |         |                        |                           |                  |              |                        |  |
|                 | 0.1 %            | WG-17, 50 LB SK (100003623)                              |        |         |                        |                           |                  |              |                        |  |
|                 | 18.09 Gal        | FRESH WATER  |        |         |                        |                           |                  |              |                        |  |
| 2               | Tail Cement      | CMT - STANDARD CEMENT (100003684)                        | 200.0  | sacks   | 15.6                   | 1.2                       | 5.18             | 6.0          | 5.18                   |  |
|                 | 94 lbm           | CMT - STANDARD - CLASS A REG OR TYPE I, BULK (100003684) |        |         |                        |                           |                  |              |                        |  |
|                 | 2 %              | CALCIUM CHLORIDE - HI TEST PELLET (100005053)            |        |         |                        |                           |                  |              |                        |  |
|                 | 0.5 lbm          | POLY-E-FLAKE (101216940)                                 |        |         |                        |                           |                  |              |                        |  |
|                 | 5.177 Gal        | FRESH WATER  |        |         |                        |                           |                  |              |                        |  |
| 3               | Mud Displacement |  | 101.00 | bbl     | 9.                     | .0                        | .0               | 8.0          |                        |  |

| Calculated Values |  |                  | Pressures |                |    | Volumes             |  |           |
|-------------------|--|------------------|-----------|----------------|----|---------------------|--|-----------|
| Displacement      |  | Shut In: Instant |           | Lost Returns   |    | Cement Slurry       |  | Pad       |
| Top Of Cement     |  | 5 Min            |           | Cement Returns | 50 | Actual Displacement |  | Treatment |
| Frac Gradient     |  | 15 Min           |           | Spacers        |    | Load and Breakdown  |  | Total Job |

| Rates               |        |                 |        |                 |    |                 |    |  |  |  |
|---------------------|--------|-----------------|--------|-----------------|----|-----------------|----|--|--|--|
| Circulating         |        | Mixing          |        | Displacement    |    | Avg. Job        |    |  |  |  |
| 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  


## Cementing Job Log

The Road to Excellence Starts with Safety

|  |                              |   |                        |
|--|------------------------------|---|------------------------|
| Sold To #: 300496                                    | Ship To #: 2847282           | Quote #:                                  | Sales Order #: 8086008 |
| Customer: APACHE CORP                                |                              | Customer Rep: Stanley, Josh               |                        |
| Well Name: Deckard                                   | Well #: 1-33                 | API/UWI #: 15-119-21286                   |                        |
| Field:   | City (SAP): MEADE            | County/Parish: Meade                      | State: Kansas          |
| Legal Description: Section 33 Township 34S Range 26W |                              |   |                        |
| 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: Duke Drilling                            | Rig/Platform Name/Num: 6     |   |                        |
| Job Purpose: Cement Surface Casing                   |                              |   | Ticket Amount:         |
| Well Type: Development Well                          |                              | Job Type: Cement Surface Casing           |                        |
| Sales Person: MEREDITH, JERRY                        | Srv Supervisor: SMITH, BOBBY | MBU ID Emp #: 106036                      |                        |

| Activity Description                  | Date/Time           | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |                 | Comments   |
|---------------------------------------|---------------------|-------|--------------|------------|-------|---------------|-----------------|--|
|                                       |                     |       |              | Stage      | Total | Tubing        | Casing          |  |
| Call Out                              | 04/07/2011<br>05:00 |       |              |            |       |               |                 |  |
| Depart Location Safety Meeting        | 04/07/2011<br>06:30 |       |              |            |       |               |                 |  |
| Arrive At Loc                         | 04/07/2011<br>08:00 |       |              |            |       |               |                 |  |
| Assessment Of Location Safety Meeting | 04/07/2011<br>08:00 |       |              |            |       |               |                 | Rig pulling drill pipe                             |
| Pre-Rig Up Safety Meeting             | 04/07/2011<br>08:05 |       |              |            |       |               |                 |  |
| Other                                 | 04/07/2011<br>08:55 |       |              |            |       |               |                 | drill pipe out of the hole casing crew rigging up. |
| Rig-Up Completed                      | 04/07/2011<br>09:00 |       |              |            |       |               |                 |  |
| Other                                 | 04/07/2011<br>09:30 |       |              |            |       |               |                 | casing going in the hole                           |
| Other                                 | 04/07/2011<br>12:00 |       |              |            |       |               |                 | casing on bottom rig is circulating.               |
| Safety Meeting - Pre Job              | 04/07/2011<br>12:20 |       |              |            |       |               |                 |  |
| Start Job                             | 04/07/2011<br>12:29 |       |              |            |       |               |                 |  |
| Test Lines                            | 04/07/2011<br>12:30 |       |              |            |       |               | 3000.0          |  |
| Pump Lead Cement                      | 04/07/2011<br>12:36 |       | 6            | 236.4      | 2     |               | 100.0           | 450 sx = 1327.5 ft3 = top of cement surface        |
| Other                                 | 04/07/2011<br>12:37 |       |              |            |       |               |                 | mud returns  |
| Pump Tail Cement                      | 04/07/2011<br>13:12 |       | 6            | 42.74      |       |               | 100.0           | 200 sx = 240 ft3. top of cement 1081.04 ft         |
| Drop Top Plug                         | 04/07/2011<br>13:22 |       |              |            |       |               |                 |  |
| Pump Displacement                     | 04/07/2011<br>13:24 |       | 6            | 0          |       |               | 50.0            | water  |
| Bump Plug                             | 04/07/2011<br>13:45 |       | 6            | 100.7      | 2     |               | 400.0<br>1300.0 |  |

Sold To #: 300496

Ship To #: 2847282

Quote #:

Sales Order #:

8086008

SUMMIT Version: 7.20.130

Thursday, April 07, 2011 02:22:00

HALLIBURTON

### Cementing Job Log

| Activity Description                             | Date/Time           | Cnt # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|--|---------------------|-------|--------------|------------|-------|---------------|--------|--|
|  |                     |       |              | Stage      | Total | Tubing        | Casing |  |
| Check Floats                                     | 04/07/2011<br>13:46 |       |              |            |       |               |        | float held.                                      |
| End Job  | 04/07/2011<br>13:47 |       |              |            |       |               |        | 50 bbis of cement back to surface.               |
| Safety Meeting - Pre Rig-Down                    | 04/07/2011<br>13:50 |       |              |            |       |               |        |  |
| Rig-Down Completed                               | 04/07/2011<br>15:00 |       |              |            |       |               |        |  |
| Safety Meeting - Departing Location              | 04/07/2011<br>15:15 |       |              |            |       |               |        |  |
| Depart Location for Service Center or Other Site | 04/07/2011<br>15:30 |       |              |            |       |               |        | Thank you for calling Halliburton. Bob and crew. |

Sold To #: 300496

Ship To #: 2847282

Quote #:

Sales Order #: 8086008

SUMMIT Version: 7.20.130

Thursday, April 07, 2011 02:22:00

HALLIBURTON

*Cementing Job Summary*

The Road to Excellence Starts with Safety

|  |                    |                                    |                        |
|--|--------------------|------------------------------------|------------------------|
| Sold To #: 300496                                    | Ship To #: 2847282 | Quote #:                           | Sales Order #: 8099455 |
| Customer: APACHE CORP                                |                    | Customer Rep: STANLEY, JOSH        |                        |
| Well Name: Deckard                                   | Well #: 1-33       | API/UWI #: 15-119-21286            |                        |
| Field:   | City (SAP): MEADE  | County/Parish: Meade               | State: Kansas          |
| Legal Description: Section 33 Township 34S Range 26W |                    |                                    |                        |
| Contractor: Duke                                     |                    | Rig/Platform Name/Num: #6          |                        |
| Job Purpose: Cement Production Casing                |                    |                                    |                        |
| Well Type: Development Well                          |                    | Job Type: Cement Production Casing |                        |
| Sales Person: MEREDITH, JERRY                        |                    | Srvc Supervisor: CARRILLO, EDUARDO | MBU ID Emp #: 371263   |

**Job Personnel**

| HES Emp Name       | Exp Hrs | Emp #  | HES Emp Name               | Exp Hrs | Emp #  | HES Emp Name               | Exp Hrs | Emp #  |
|--------------------|---------|--------|----------------------------|---------|--------|----------------------------|---------|--------|
| AGUILERA, FABIAN J | 5       | 442123 | CARRILLO, EDUARDO Carrillo | 5       | 371263 | RODRIGUEZ, EDGAR Alejandro | 5       | 442125 |
| SMITH, BOBBY Wayne | 5       | 106036 |                            |         |        |                            |         |        |

**Equipment**

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10714253C  | 45 mile        | 10744298C  | 45 mile        | 10988832   | 45 mile        | 10994449   | 45 mile        |
| 11133699   | 45 mile        |            |                |            |                |            |                |

**Job Hours**

| Date         | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 4-13-2011    | 5                 | 4               |      |                   |                 |      |                   |                 |
| <b>TOTAL</b> |                   |                 |      |                   |                 |      |                   |                 |

Total is the sum of each column separately

**Job**

**Job Times**

| Formation Name         | Formation Depth (MD) | Top | Bottom            | Called Out   | Date            | Time  | Time Zone |
|------------------------|----------------------|-----|-------------------|--------------|-----------------|-------|-----------|
|                        |                      |     |                   |              | 13 - Apr - 2011 | 03:00 | CST       |
| Form Type              |                      |     | BHST              | 148 degF     | 13 - Apr - 2011 | 06:30 | CST       |
| Job depth MD           | 6256. ft             |     | Job Depth TVD     | 6256. ft     | 13 - Apr - 2011 | 08:54 | CST       |
| Water Depth            |                      |     | Wk Ht Above Floor | 5. ft        | 13 - Apr - 2011 | 10:24 | CST       |
| Perforation Depth (MD) | From                 |     | To                | Departed Loc | 13 - Apr - 2011 | 12:00 | CST       |

**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 |
|---------------------------------|------------|-------------------|---------|-------|---------------|-------------|-------|-----------|--------------|------------|---------------|
| 7-7/8" Production Open Hole     |            |                   |         | 7.875 |               |             |       | 1600.     | 6200.        |            |               |
| 5-1/2" 17 ppf Production Casing | New        |                   | 5.5     | 4.892 | 17.           | 8 RD (LT&C) | J-55  |           | 6200.        |            |               |
| 8-5/8" Surface Casing           | New        |                   | 8.625   | 8.097 | 24.           | 8 RD (ST&C) | J-55  |           | 1600.        |            |               |

**Sales/Rental/3<sup>rd</sup> Party (HES)**

| Description                              | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| CTRZR ASSY,5 1/2 CSG X 7 7/8 HOLE,HINGED | 10  | EA      |       |          |
| CLAMP - LIMIT - 5-1/2 - HINGED -         | 1   | EA      |       |          |
| PLUG ASSY,5 1/2 OMEGA/HWE,4.38 MIN/5.09  | 1   | EA      |       |          |

**Tools and Accessories**

| Type         | Size | Qty | Make | Depth | Type        | Size | Qty | Make | Depth | Type           | Size  | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|-------|-----|------|
| Guide Shoe   |      |     |      |       | Packer      |      |     |      |       | Top Plug       | 5 1/2 | 1   | h    |
| Float Shoe   |      |     |      |       | Bridge Plug |      |     |      |       | Bottom Plug    |       |     |      |
| Float Collar |      |     |      |       | Retainer    |      |     |      |       | SSR plug set   |       |     |      |
| Insert Float |      |     |      |       |             |      |     |      |       | Plug Container | 5 1/2 | 1   | h    |
| Stage Tool   |      |     |      |       |             |      |     |      |       | Centralizers   |       |     |      |

| Miscellaneous Materials                  |                           |  |        |                  |   |                     |                  |                |                        |           |      |
|--|---------------------------|--|--------|------------------|---|---------------------|------------------|----------------|------------------------|-----------|------|
| Gelling Agt                              | Conc                      | Surfactant                                     | Conc   | Acid Type        | Qty   | Conc                | %                | Treatment Fld  | Conc                   | Inhibitor | Conc |
|  |                           |  |        | Sand Type        | Size  |                     |                  |                |                        |           |      |
| <b>Fluid Data</b>                        |                           |  |        |                  |   |                     |                  |                |                        |           |      |
| <b>Stage/Plug #: 1</b>                   |                           |  |        |                  |   |                     |                  |                |                        |           |      |
| 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              |  |        | bbl              | 8.33  | .0                  | .0               | .0             |                        |           |      |
| 2  | Superflush                |  |        | bbl              | 9.3   | .0                  | .0               | .0             |                        |           |      |
|  |                           | 68 lbm/bbl HALLIBURTON SUPER FLUSH (100003639) |        |                  |   |                     |                  |                |                        |           |      |
| 3  | Water Spacer              |  |        | bbl              | 8.33  | .0                  | .0               | .0             |                        |           |      |
| 4  | Lead Cement               | POZ PREMIUM 50/50 - SBM (12302)                |        | sacks            | 12.8  | 1.83                | 8.9              |                | 8.9                    |           |      |
|  |                           | 8.896 Gal FRESH WATER                          |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 0.6 % HALAD(R)-322, 50 LB (100003646)          |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 3 lbm KOL-SEAL, BULK (100064233)               |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 5 % CAL-SEAL 60, 50 LB BAG (101217146)         |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 10 % SALT, 100 LB BAG (100003652)              |        |                  |   |                     |                  |                |                        |           |      |
| 5  | Tail Cement               | POZ PREMIUM 50/50 - SBM (12302)                |        | sacks            | 14.2  | 1.36                | 5.54             |                | 5.54                   |           |      |
|  |                           | 5.535 Gal FRESH WATER                          |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 0.6 % HALAD(R)-322, 50 LB (100003646)          |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 3 lbm KOL-SEAL, BULK (100064233)               |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 5 % CAL-SEAL 60, 50 LB BAG (101217146)         |        |                  |   |                     |                  |                |                        |           |      |
|  |                           | 10 % SALT, 100 LB BAG (100003652)              |        |                  |   |                     |                  |                |                        |           |      |
| 6  | 2% KCL Water Displacement |  |        | bbl              | 8.4   | .0                  | .0               | .0             |                        |           |      |
|  |                           | 7 lbm/bbl POTASSIUM CHLORIDE 7% (100001585)    |        |                  |   |                     |                  |                |                        |           |      |
| <b>Calculated Values</b>                 |                           |  |        | <b>Pressures</b> |   |                     |                  | <b>Volumes</b> |                        |           |      |
| Displacement                             | 144                       | Shut In: Instant                               |        | Lost Returns     | 0   | Cement Slurry       | 98               | Pad            |                        |           |      |
| Top Of Cement                            | 3144                      | 5 Min  |        | Cement Returns   | 0   | Actual Displacement | 144              | Treatment      |                        |           |      |
| Frac Gradient                            |                           | 15 Min   |        | Spacers          | 60  | Load and Breakdown  |                  | Total Job      | 302                    |           |      |
| <b>Rates</b>                             |                           |  |        |                  |   |                     |                  |                |                        |           |      |
| Circulating                              | 6                         | 5  | Mixing | Displacement     | 6   | Avg. Job            | 6                |                |                        |           |      |
| 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><i>[Signature]</i> |                     |                  |                |                        |           |      |



# HALLIBURTON

## Cementing Job Log

*The Road to Excellence Starts with Safety*

|  |                           |   |                        |
|--|---------------------------|---|------------------------|
| Sold To #: 300496                                    | Ship To #: 2847282        | Quote #:                                  | Sales Order #: 8099455 |
| Customer: APACHE CORP                                |                           | Customer Rep: STANLEY, JOSH               |                        |
| Well Name: Deckard                                   | Well #: 1-33              | API/UWI #: 15-119-21286                   |                        |
| Field:   | City (SAP): MEADE         | County/Parish: Meade                      | State: Kansas          |
| Legal Description: Section 33 Township 34S Range 26W |                           |   |                        |
| 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: Duke                                     | Rig/Platform Name/Num: #6 |   |                        |
| Job Purpose: Cement Production Casing                |                           |   | Ticket Amount:         |
| Well Type: Development Well                          |                           | Job Type: Cement Production Casing        |                        |
| Sales Person: MEREDITH, JERRY                        |                           | Srvc Supervisor: CARRILLO, EDUARDO        | MBU ID Emp #: 371263   |

| Activity Description                  | Date/Time           | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments   |
|---------------------------------------|---------------------|-------|--------------|------------|-------|---------------|--------|--|
|                                       |                     |       |              | Stage      | Total | Tubing        | Casing |  |
| Call Out                              | 04/13/2011<br>03:00 |       |              |            |       |               |        | Dispatch Called Cement Crew For Job On The Apache Corp Well Deckard # 1-33 5 1/2 Production                                      |
| Other                                 | 04/13/2011<br>04:15 |       |              |            |       |               |        | Loading Equipment And Chemicals For Job  |
| Pre-Convoy Safety Meeting             | 04/13/2011<br>05:15 |       |              |            |       |               |        | Discuss Route to take and Hazards on the road  |
| Arrive At Loc                         | 04/13/2011<br>06:15 |       |              |            |       |               |        |  |
| Assessment Of Location Safety Meeting | 04/13/2011<br>06:25 |       |              |            |       |               |        | Rig Runing Last Joint's Of Casing  |
| Other                                 | 04/13/2011<br>06:30 |       |              |            |       |               |        | Casing On Bottom Rig Circulating For One HR Per Customer Rep. He Said To Pump Rat And Mouse Hol Last.                            |
| Pre-Rig Up Safety Meeting             | 04/13/2011<br>06:35 |       |              |            |       |               |        | Discused All Red Zones Went Over JSA.  |
| Rig-Up Completed                      | 04/13/2011<br>07:35 |       |              |            |       |               |        |  |
| Other                                 | 04/13/2011<br>08:20 |       |              |            |       |               |        | Mixed Chemicals For Super Flush.   |
| Pre-Job Safety Meeting                | 04/13/2011<br>08:45 |       |              |            |       |               |        | Discussed Job Went Over Depths And Volumes Have Rig Crew Sing Saftey Sheet. Talked To Customer On How Fast To Pump And Pressers. |
| Start Job                             | 04/13/2011<br>08:54 |       |              |            |       |               |        | Ready for Halliburton  |

Sold To #: 300496

Ship To #: 2847282

Quote #:

Sales Order #:

8099455

SUMMIT Version: 7.20.130

XXX,XXX 00,0000 00:00:00

# HALLIBURTON

## Cementing Job Log

| Activity Description        | Date/Time           | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments  |
|-----------------------------|---------------------|-------|--------------|------------|-------|---------------|--------|---|
|                             |                     |       |              | Stage      | Total | Tubing        | Casing |   |
| Test Lines                  | 04/13/2011<br>08:55 |       |              |            |       |               | 4000.0 | Tested @ 4000 PSI<br>Heald Released Presser<br>On The Iron On Releas<br>Line    |
| Pump Spacer 1               | 04/13/2011<br>09:03 |       | 5            | 20         | 20    |               | 220.0  | Pumped 20 bbls H2O<br>Spacer  |
| Pump Spacer 2               | 04/13/2011<br>09:08 |       | 5            | 20         | 40    |               | 280.0  | Pumped 20 bbls Super<br>Flush Spacer  |
| Pump Spacer 1               | 04/13/2011<br>09:13 |       | 5            | 20         | 60    |               | 285.0  | Pumped 20 bbls H2O<br>Spacer  |
| Pump Lead Cement            | 04/13/2011<br>09:17 |       | 5            | 49         | 109   |               | 250.0  | Pumped 150 SKS CMT<br>@ 12.8 ppg // 49 bbls<br>CMT // 150 X 1.83 = 274<br>CU/FT |
| Pump Tail Cement            | 04/13/2011<br>09:28 |       | 5            | 49         | 158   |               |        | Pumped 200 SKS CMT<br>@ 14.2 ppg // 49 bbls<br>CMT // 200 X 1.36 = 272<br>CU/FT |
| Shutdown                    | 04/13/2011<br>09:40 |       |              |            |       |               |        |   |
| Drop Top Plug               | 04/13/2011<br>09:41 |       |              |            |       |               |        | HWE   |
| Pump Displacement           | 04/13/2011<br>09:51 |       | 6            | 144        | 301   |               | 200.0  | Pumped 144 bbls<br>Displacement KCL<br>Water                                    |
| Displ Reached Cmnt          | 04/13/2011<br>10:09 |       | 6            | 101        | 301   |               | 285.0  | Displacement Reached<br>CMT @ 101 bbls got 285<br>PSI.                          |
| Slow Rate                   | 04/13/2011<br>10:18 |       | 2            | 134        | 301   |               | 850.0  | Slowed Down Last 10<br>bbls @ 2 BPM .   |
| Bump Plug                   | 04/13/2011<br>10:19 |       |              |            |       |               |        | Bumped Plug @<br>1350 Took To 1850<br>Heald For 5 min Per<br>Customer Rep.      |
| Check Floats                | 04/13/2011<br>10:23 |       |              |            |       |               |        | Floats Heald Got 1 BBL<br>Back  |
| End Job                     | 04/13/2011<br>10:25 |       |              |            |       |               |        |   |
| Pre-Rig Down Safety Meeting | 04/13/2011<br>10:35 |       |              |            |       |               |        | Discuss Pinchpoint and<br>Tripping Hazards                                      |
| Rig-Down Completed          | 04/13/2011<br>11:45 |       |              |            |       |               |        |   |
| Other                       | 04/13/2011<br>12:05 |       |              |            |       |               |        | THANK YOU FOR<br>CHOOSING<br>HALLIBURTON  |
| Crew Leave Location         | 04/13/2011<br>12:10 |       |              |            |       |               |        |   |

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SUMMIT Version: 7.20.130

XXX, XXX 00, 0000 00:00:00