

**CHEVRON - MID-CONTINENT EBIZ  
11111 S WILCREST DR - DO NOT MAIL  
HOUSTON, Texas**

SKR  
SKR 698-04-AV-14

**H&P 318/H&P/318**

## **Post Job Summary**

# **Cement Surface Casing**

Prepared for: DAN MEIER  
Date Prepared: 01/09/09  
Version: 1

Service Supervisor: CALDWELL, JEFFREY

Submitted by:

**HALLIBURTON**

## The Road to Excellence Starts with Safety

|  |                       |                                   |                        |
|--|-----------------------|-----------------------------------|------------------------|
| Sold To #: 338668                      | Ship To #: 2695770    | Quote #:                          | Sales Order #: 6430617 |
| Customer: CHEVRON - MID-CONTINENT EBIZ |                       | Customer Rep: MEIER, DAN          |                        |
| Well Name: SKR                         |                       | Well #: 698-04-AV-14              | API/UWI #:             |
| Field: SKINNER RIDGE                   | City (SAP): PARACHUTE | County/Parish: Garfield           | State: Colorado        |
| Contractor: H&P 318                    |                       | Rig/Platform Name/Num: H&P 318    |                        |
| Job Purpose: Cement Surface Casing     |                       |                                   |                        |
| Well Type: Development Well            |                       | Job Type: Cement Surface Casing   |                        |
| Sales Person: HARTLEY, RICHARD         |                       | Srv Supervisor: CALDWELL, JEFFREY | MBU ID Emp #: 369111   |

## Job Personnel

| HES Emp Name        | Exp Hrs | Emp #  | HES Emp Name         | Exp Hrs | Emp #  | HES Emp Name          | Exp Hrs | Emp #  |
|---------------------|---------|--------|----------------------|---------|--------|-----------------------|---------|--------|
| CALDWELL, JEFFREY S | 4       | 369111 | MADRIGAL, MARK Henry | 4       | 444368 | SMITH, DUSTIN Michael | 4       | 418015 |
| WEAVER, RUSTY       | 4       | 457698 | WILKINSON, JAMES     | 4       | 459794 |                       |         |        |

## Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10025041   | 120 mile       | 10086132C  | 120 mile       | 10719782   | 120 mile       | 10872429   | 120 mile       |
| 10988978   | 120 mile       |            |                |            |                |            |                |

## Job Hours

| Date     | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|----------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 01/09/09 | 4                 | .75             |      |                   |                 |      |                   |                 |

TOTAL Total is the sum of each column separately

## Job

| Formation Name | Formation Depth (MD) | Top | Bottom | Form Type | Job depth MD | Job Depth TVD | Water Depth | Perforation Depth (MD) | From | To |
|----------------|----------------------|-----|--------|-----------|--------------|---------------|-------------|------------------------|------|----|
|                |                      |     |        | BHST      | 1019. ft     | 1019. ft      |             |                        |      |    |
|                |                      |     |        |           |              | 5. ft         |             |                        |      |    |

## Job Times

|               | Date            | Time  | Time Zone |
|---------------|-----------------|-------|-----------|
| Called Out    | 09 - Jan - 2009 | 04:00 | MST       |
| On Location   | 09 - Jan - 2009 | 08:00 | MST       |
| Job Started   | 09 - Jan - 2009 | 10:10 | MST       |
| Job Completed | 09 - Jan - 2009 | 10:54 | MST       |
| Departed Loc  | 09 - Jan - 2009 | 12:30 | MST       |

## Well Data

| Description | New / Used | Max pressure psig | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft |
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|
|-------------|------------|-------------------|---------|-------|---------------|--------|-------|-----------|--------------|------------|---------------|

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

| Description                                  | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG, TOP, 8 5/8, HWE, 7.20 MIN/8.09 MA | 1   | EA      |       |          |
| ADC (AUTO DENSITY CTRL) SYS, /JOB, ZI        | 1   | JOB     |       |          |
| PORT. DAS W/CEMWIN; ACQUIRE W/HES, ZI        | 1   | JOB     |       |          |

## Tools and Accessories

| Type         | Size | Qty | Make | Depth | Type        | Size | Qty | Make | Depth | Type           | Size  | Qty | Make |
|--------------|------|-----|------|-------|-------------|------|-----|------|-------|----------------|-------|-----|------|
| Guide Shoe   |      |     |      |       | Packer      |      |     |      |       | Top Plug       | 8.625 | 1   |      |
| Float Shoe   |      |     |      |       | Bridge Plug |      |     |      |       | Bottom Plug    |       |     |      |
| Float Collar |      |     |      |       | Retainer    |      |     |      |       | SSR plug set   |       |     |      |
| Insert Float |      |     |      |       |             |      |     |      |       | Plug Container | 8.625 | 1   |      |
| Stage Tool   |      |     |      |       |             |      |     |      |       | Centralizers   |       |     |      |

## Miscellaneous Materials

| Gelling Agt   | Conc | Surfactant | Conc | Acid Type | Qty  | Conc | % |
|---------------|------|------------|------|-----------|------|------|---|
| Treatment Fld | Conc | Inhibitor  | Conc | Sand Type | Size | Qty  |   |



| Fluid Data                               |                          |                                    |        |                                   |                        |                           |                  |              |                        |
|--|--------------------------|------------------------------------|--------|-----------------------------------|------------------------|---------------------------|------------------|--------------|------------------------|
| Stage/Plug #: 1                          |                          |                                    |        |                                   |                        |                           |                  |              |                        |
| Fluid #                                  | Stage Type               | Fluid Name                         | Qty    | Qty uom                           | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1  | PolyFlake Spacer         |                                    | 50     | bbl                               | 8.33                   | .0                        | .0               | 7.0          |                        |
| 2  | Lead Cement              | VERSACEM (TM) SYSTEM (452010)      | 150    | sacks                             | 12.3                   | 2.38                      | 13.75            | 7.0          |                        |
|  | 2 %                      | CAL-SEAL 60, 50 LB BAG (101217146) |        |                                   |                        |                           |                  |              |                        |
|  | 2 %                      | ECONOLITE (100001580)              |        |                                   |                        |                           |                  |              |                        |
|  | 0.3 %                    | VERSASET, 55 LB SK (101376573)     |        |                                   |                        |                           |                  |              |                        |
|  | 5.64 lbm                 | SALT, 100 LB BAG (100003652)       |        |                                   |                        |                           |                  |              |                        |
|  | 0.125 lbm                | POLY-E-FLAKE (101216940)           |        |                                   |                        |                           |                  |              |                        |
|  | 0.25 %                   | D-AIR 3000 (101007446)             |        |                                   |                        |                           |                  |              |                        |
|  | 13.75 Gal                | FRESH WATER                        |        |                                   |                        |                           |                  |              |                        |
| 3  | Tail Cement              | VERSACEM (TM) SYSTEM (452010)      | 155    | sacks                             | 12.8                   | 2.11                      | 11.75            | 7.0          |                        |
|  | 2 %                      | CAL-SEAL 60, 50 LB BAG (101217146) |        |                                   |                        |                           |                  |              |                        |
|  | 2 %                      | ECONOLITE (100001580)              |        |                                   |                        |                           |                  |              |                        |
|  | 0.3 %                    | VERSASET, 55 LB SK (101376573)     |        |                                   |                        |                           |                  |              |                        |
|  | 5.64 lbm                 | SALT, 100 LB BAG (100003652)       |        |                                   |                        |                           |                  |              |                        |
|  | 11.75 Gal                | FRESH WATER                        |        |                                   |                        |                           |                  |              |                        |
| 4  | Fresh Water Displacement |                                    | 63.5   | bbl                               | 8.33                   | .0                        | .0               | 8.0          |                        |
| Calculated Values                        |                          | Pressures                          |        | Volumes                           |                        |                           |                  |              |                        |
| Displacement                             | 63.5                     | Shut In: Instant                   |        | Lost Returns                      | 0                      | Cement Slurry             | 113.6            | Pad          |                        |
| Top Of Cement                            | SURFACE                  | 5 Min                              |        | Cement Returns                    | 25                     | Actual Displacement       | 63.5             | Treatment    |                        |
| Frac Gradient                            |                          | 15 Min                             |        | Spacers                           | 50                     | Load and Breakdown        |                  | Total Job    | 227.1                  |
| Rates                                    |                          |                                    |        |                                   |                        |                           |                  |              |                        |
| Circulating                              | RIG                      | Mixing                             | 7      | Displacement                      | 8                      | Avg. Job                  | 7.5              |              |                        |
| Cement Left In Pipe                      | Amount                   | 43.45 ft                           | Reason | Shoe Joint                        |                        |                           |                  |              |                        |
| Frac Ring # 1 @                          | ID                       | Frac ring # 2 @                    | ID     | Frac Ring # 3 @                   | ID                     | Frac Ring # 4 @           | ID               |              |                        |
| The Information Stated Herein Is Correct |                          |                                    |        | Customer Representative Signature |                        |                           |                  |              |                        |

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|  |                       |                                   |                        |
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| Customer: CHEVRON - MID-CONTINENT EBIZ |                       | Customer Rep: MEIER, DAN          |                        |
| Well Name: SKR                         | Well #: 698-04-AV-14  | API/UWI #:                        |                        |
| Field: SKINNER RIDGE                   | City (SAP): PARACHUTE | County/Parish: Garfield           | State: Colorado        |
| Legal Description:                     |                       |                                   |                        |
| Lat:                                   |                       | Long:                             |                        |
| Contractor: H&P 318                    |                       | Rig/Platform Name/Num: H&P 318    |                        |
| Job Purpose: Cement Surface Casing     |                       |                                   | Ticket Amount:         |
| Well Type: Development Well            |                       | Job Type: Cement Surface Casing   |                        |
| Sales Person: HARTLEY, RICHARD         |                       | Srv Supervisor: CALDWELL, JEFFREY | MBU ID Emp #: 369111   |

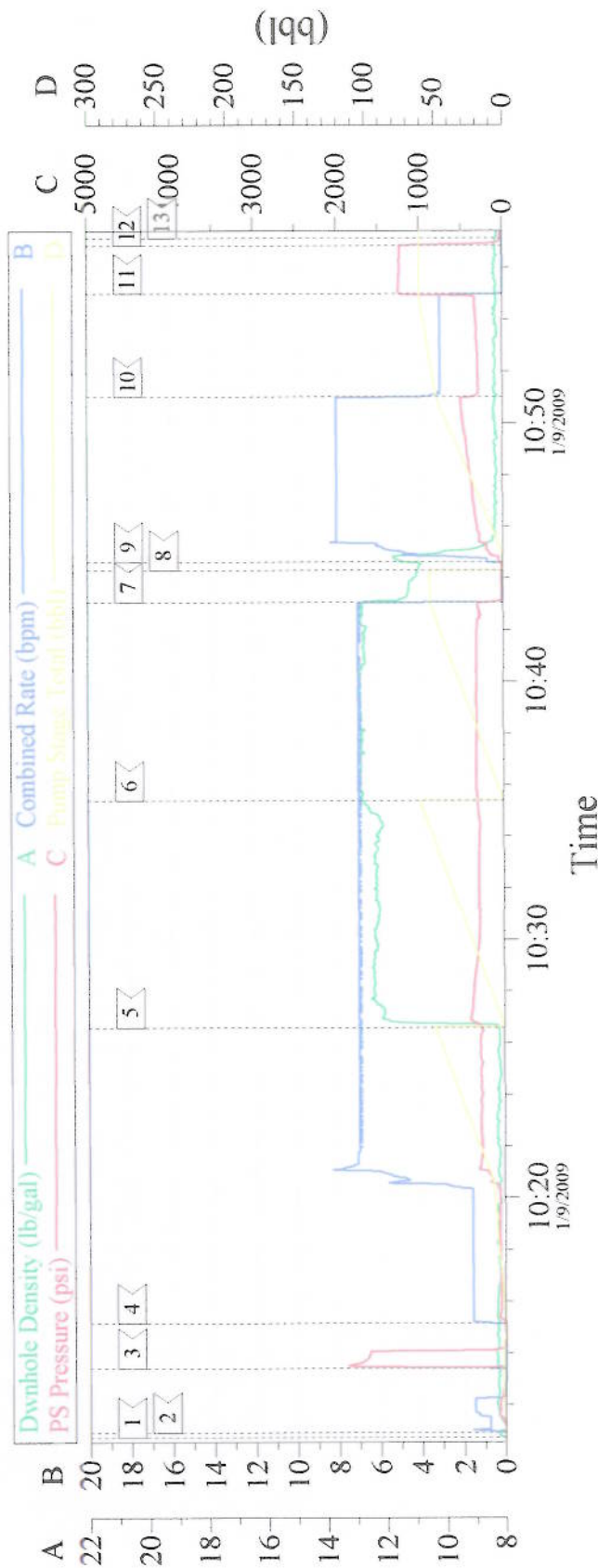
| Activity Description                  | Date/Time        | Cht # | Rate bbl/min | Volume bbl |       | Pressure psig |        | Comments  |
|---------------------------------------|------------------|-------|--------------|------------|-------|---------------|--------|---|
|                                       |                  |       |              | Stage      | Total | Tubing        | Casing |   |
| Call Out                              | 01/09/2009 04:00 |       |              |            |       |               |        | ELITE #11   |
| Crew Leave Yard                       | 01/09/2009 06:00 |       |              |            |       |               |        | PLUG CONTAINER #D1418                                     |
| Arrive At Loc                         | 01/09/2009 08:00 |       |              |            |       |               |        | CASING WAS STILL BEING RUN.                               |
| Assessment Of Location Safety Meeting | 01/09/2009 08:05 |       |              |            |       |               |        |   |
| Rig-Up Equipment                      | 01/09/2009 08:15 |       |              |            |       |               |        |   |
| Safety Huddle                         | 01/09/2009 09:45 |       |              |            |       |               |        |   |
| Start Job                             | 01/09/2009 10:10 |       |              |            |       |               |        | TD:1019 TP:1009.83<br>SJ:43.45 MUD:9.2 PPG<br>121/4" HOLE |
| Prime Pumps                           | 01/09/2009 10:10 |       | 1.5          | 1.5        | 1.5   |               | 70.0   | H2O   |
| Test Lines                            | 01/09/2009 10:13 |       |              |            |       | 2000.0        |        |   |
| Pump Spacer 1                         | 01/09/2009 10:15 |       | 7            | 50         | 50    |               | 290.0  | H2O W/10 LBS. POLYFLAKE.                                  |
| Pump Lead Cement                      | 01/09/2009 10:26 |       | 7            | 63.6       | 60.4  |               | 325.0  | 150 SKS 12.3 PPG 2.38 CUFT/SAK 13.75 GAL/SAK              |
| Pump Tail Cement                      | 01/09/2009 10:35 |       | 7            | 58.2       | 53.2  |               | 310.0  | 155 SKS 12.8 PPG 2.11 CUFT/SAK 11.75 GAL/SAK              |
| Shutdown                              | 01/09/2009 10:43 |       |              |            |       |               |        |   |
| Drop Plug                             | 01/09/2009 10:44 |       |              |            |       |               |        | PLUG AWAY   |
| Pump Displacement                     | 01/09/2009 10:44 |       | 8            | 63.5       | 63.5  |               | 497.0  | H2O   |

## 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 |  |
| Slow Rate            | 01/09/2009<br>10:51 |          | 3                   | 50            | 50    |                  | 293.0  |  |
| Bump Plug            | 01/09/2009<br>10:54 |          | 3                   | 63.5          | 63.5  |                  | 1248.0 | PLUG BUMPED.25<br>BBLS OF CEMENT<br>BACK TO SURFACE                    |
| Check Floats         | 01/09/2009<br>10:56 |          |                     |               |       |                  |        | FLOATS HELD 1/2 BBL<br>BACK. GOOD<br>CIRCULATION<br>THROUGH OUT JOB.   |
| End Job              | 01/09/2009<br>10:57 |          |                     |               |       |                  |        | THANK YOU FOR<br>CHOOSING<br>HALLIBURTON JEFF<br>CALDWELL AND<br>CREW. |



# 8 5/8" Surface



| Event Log           |                 |                             |                 |
|---------------------|-----------------|-----------------------------|-----------------|
| Intersection        |                 | Intersection                |                 |
| 1 START JOB         | 10:10:45 -1.000 | 2 PRIME LINES               | 10:10:56 -1.000 |
| 3 TEST LINES        | 10:13:24 51.32  | 4 PUMP SPACER               | 10:15:09 12.61  |
| 5 PUMP LEAD CEMENT  | 10:26:36 292.7  | 6 PUMP TAIL CEMENT          | 10:35:23 327.8  |
| 7 SHUT DOWN         | 10:43:04 193.4  | 8 DROP TOP PLUG             | 10:44:18 25.90  |
| 9 PUMP DISPLACEMENT | 10:44:37 49.50  | 10 SLOW RATE                | 10:51:01 356.7  |
| 11 BUMP PLUG        | 10:54:59 1238   | 12 CHECK FLOATS/FLOATS HELD | 10:56:51 1163   |
| 13 END JOB          | 10:57:09 35.04  |                             |                 |

|                               |                         |                                       |
|-------------------------------|-------------------------|---------------------------------------|
| Customer: Chevron             | Job Date: 01/09/09      | Ticket #: 6430617                     |
| Well Number: SKR 698-04-AV-14 | Job Type: 8 5/8 surface | ADC Used: Yes                         |
| Supervisor: Jeff Caldwell     | Company Rep.: Dan Meier | Pump/Operator: Elite 11/Mark Madrigal |