

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

SKR
SKR 598-36-BV-11

H&P 316/H&P/316

Post Job Summary

Cement Production Casing

Prepared for:
Date Prepared:
Version: 1

Service Supervisor: Main, Chad

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

| | | | |
|--|------------------------------------|---------------------------------|------------------------|
| Sold To #: 338668 | Ship To #: 2695485 | Quote #: | Sales Order #: 6473216 |
| Customer: CHEVRON - MID-CONTINENT EBIZ | | Customer Rep: LINDSEY, JONATHAN | |
| Well Name: SKR | Well #: 598-36-BV-11 | API/UWI #: | |
| Field: SKINNER RIDGE | City (SAP): PARACHUTE | County/Parish: Garfield | State: Colorado |
| Contractor: H&P 316 | Rig/Platform Name/Num: H&P 316 | | |
| Job Purpose: Cement Production Casing | | | |
| Well Type: Development Well | Job Type: Cement Production Casing | | |
| Sales Person: HARTLEY, RICHARD | Srv Supervisor: Main, Chad | MBU ID Emp #: 335770 | |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|------------------------|---------|--------|--------------|---------|--------|------------------------------------|---------|--------|
| ARNOLD, EDWARD John | 12 | 439784 | Main, Chad | 12 | 335770 | SHAHNOOSHI, ALIREZA Faroooshani | 12 | 391960 |
| YOUNG, JEREMY R | 12 | 418013 | | | | | | |

Equipment

| HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way | HES Unit # | Distance-1 way |
|------------|----------------|------------|----------------|------------|----------------|------------|----------------|
| 10822535 | 120 mile | 10871245 | 120 mile | 10885522 | 120 mile | 10951244 | 120 mile |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|----------|-------------------|-----------------|------|-------------------|-----------------|------|-------------------|-----------------|
| 02/01/09 | 12 | 6 | | | | | | |

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 | 7137. ft | 7137. ft | | | | |
| | | | | | | | Wk Ht Above Floor | | | 3. ft |

Job Times

| Date | Time | Time Zone |
|-----------------|-------|-----------|
| 01 - Feb - 2009 | 01:00 | MST |
| 01 - Feb - 2009 | 03:30 | MST |
| 01 - Feb - 2009 | 12:00 | MST |
| 01 - Feb - 2009 | 13:26 | MST |
| 01 - Feb - 2009 | 15:30 | 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/3rd Party (HES)

| Description | Qty | Qty uom | Depth | Supplier |
|--|-----|---------|-------|----------|
| PLUG,CMTG,TOP,4 1/2,HWE,3.65 MIN/4.14 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 | | | |
| 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 ³ /sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | Dyed PolyFlake Spacer | | 50.00 | bbl | 8.33 | .0 | .0 | .0 | |
| 2 | Lead Cement | VARICEM (TM) CEMENT (452009) | 322.0 | sacks | 12.8 | 1.6 | 7.31 | | 7.31 |
| | 2 % | HALLIBURTON GEL, 50 LB SK (100064040) | | | | | | | |
| | 7.285 Gal | WATER - FRESH - GAL (24047) | | | | | | | |
| | 0.6 % | HALAD(R)-23, 50 LB (101209204) | | | | | | | |
| | 0.3 % | HALAD(R)-322, 50 LB (100003646) | | | | | | | |
| | 0.2 % | SUPER CBL, 50 LB PAIL (100003668) | | | | | | | |
| | 0.3 % | VERSASET, 55 LB SK (101376573) | | | | | | | |
| | 0.35 % | ENSUR, 50 LB BAG (101569121) | | | | | | | |
| | 3 lbm | SILICALITE - COMPACTED, 50 LB SK (100012223) | | | | | | | |
| | 8 lbm | KOL-SEAL, 50 LB BAG (100064232) | | | | | | | |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| 3 | Tail Cement | VARICEM (TM) CEMENT (452009) | 755.0 | sacks | 13.2 | 1.47 | 6.32 | | 6.32 |
| 4 | KCL Displacement | | 110.00 | bbl | . | .0 | .0 | .0 | |
| Calculated Values | | Pressures | | Volumes | | | | | |
| Displacement | 109.5 | Shut In: Instant | | Lost Returns | 0 | Cement Slurry | 289.3 | Pad | |
| Top Of Cement | 24 | 5 Min | | Cement Returns | 0 | Actual Displacement | 109.5 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 50 | Load and Breakdown | | Total Job | |
| Rates | | | | | | | | | |
| Circulating | 4 | Mixing | 8 | Displacement | 8 | Avg. Job | 8 | | |
| Cement Left In Pipe | Amount | 45 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | Frac ring # 2 @ | ID | Frac Ring # 3 @ | ID | Frac Ring # 4 @ | ID | | |
| The Information Stated Herein Is Correct | | | | Customer Representative Signature | | | | | |

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| Field: SKINNER RIDGE | City (SAP): PARACHUTE | County/Parish: Garfield | State: Colorado |
| Legal Description: | | | |
| Lat: | | Long: | |
| Contractor: H&P 316 | Rig/Platform Name/Num: H&P 316 | | |
| Job Purpose: Cement Production Casing | Ticket Amount: | | |
| Well Type: Development Well | Job Type: Cement Production Casing | | |
| Sales Person: HARTLEY, RICHARD | Srvc Supervisor: Main, Chad | MBU ID Emp #: 335770 | |

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|---------------------|-------|--------------|------------|-------|---------------|------------|---|
| | | | | Stage | Total | Tubing | Casing | |
| Arrive At Loc | 02/01/2009 03:30 | | | | | | | TD 7137' CSG 7111' SJ 45' SURFACE CSG 1416' MUD 11.2 PPG |
| Assessment Of Location Safety Meeting | 02/01/2009 03:45 | | | | | | | RIG WAS RUNNING CASING WHEN HES ARRIVED |
| Pre-Rig Up Safety Meeting | 02/01/2009 03:55 | | | | | | | RIG CIRCULATED ON WELL OR 1 HR 2X HOLE VOLUME |
| Rig-Up Equipment | 02/01/2009 04:00 | | | | | | | |
| Rig-Up Completed | 02/01/2009 06:00 | | | | | | | |
| Pre-Job Safety Meeting | 02/01/2009 11:45 | | | | | | | |
| Start Job | 02/01/2009 12:00 | | | | | | | |
| Pressure Test | 02/01/2009 12:02 | | | | | | | NO PIPE MOVEMENT DURING CEMENT JOB |
| Pump Spacer 1 | 02/01/2009 12:05 | | 4 | 20 | | | 354.0 | DYE AND PLOYFLAKE SPACER HES HAD FULL CIRCULATION ENTIRE JOB |
| Pump Spacer 2 | 02/01/2009 12:10 | | 4 | 30 | | | 590.0 | H2O SPACER |
| Pump Lead Cement | 02/01/2009 12:20 | | 8 | 91.7 | | | 1174. 0 | 322 SKS AT 12.8 PPG 1.6 FT3/SK 7.31 GAL/SK |
| Pump Tail Cement | 02/01/2009 12:31 | | 8 | 197.6 | | | 1570. 0 | 755 SKS AT 13.2 PPG 1.47 FT3/SK 6.32 GAL/SK |
| Shutdown | 02/01/2009 12:55 | | | | | | | |
| Clean Lines | 02/01/2009 13:02 | | | 15 | | | | |

Cementing Job Log

| Activity Description | Date/Time | Cht # | Rate bbl/min | Volume bbl | | Pressure psig | | Comments |
|--|------------------|-------|--------------|------------|-------|---------------|--------|--|
| | | | | Stage | Total | Tubing | Casing | |
| Drop Plug | 02/01/2009 13:04 | | | | | | | |
| Pump Displacement | 02/01/2009 13:05 | | 8 | 109.5 | | | 252.0 | KCL DISPLACEMENT |
| Bump Plug | 02/01/2009 13:23 | | 2 | 109.5 | | | 2600.0 | PUMP 1000 PSI OVER BUMP PSI PER CUSTOMER |
| Check Floats | 02/01/2009 13:25 | | | | | | | FLOATS HELD HES RETURNED 30 BBLS OF A SPACER AND MUD MIX |
| End Job | 02/01/2009 13:26 | | | | | | | |
| Safety Meeting - Pre Rig-Down | 02/01/2009 13:30 | | | | | | | HES COULD NOT BRING UP A JOB CHART COMPUTER WAS READING IT WRONG |
| Rig-Down Equipment | 02/01/2009 13:40 | | | | | | | |
| Rig-Down Completed | 02/01/2009 15:00 | | | | | | | |
| Depart from Service Center or Other Site | 02/01/2009 15:30 | | | | | | | |
| Other | 02/01/2009 15:31 | | | | | | | THANK YOU FOR USING HALLIBURTON GRAND JUNCTION |