

PEAKVIEW OPERATING LLC
DO NOT MAIL-216 16th Street, Suite 1450
DENVER, Colorado 80202

Kowach 24-9 SWD

Aztec 781

Post Job Summary

Cement Multiple Stages

Date Prepared: 3/17/2014
Version: 2

Service Supervisor: GAMBLES, BRAYDEN

Submitted by: Vernal Cement Engineering

HALLIBURTON

HALLIBURTON

Wellbore Geometry

| Job Tubulars | | | | | MD | | Excess % | Shoe Joint Length ft |
|-------------------|-------------------------|---------|--------|-----------|--------|-----------|----------|----------------------|
| Type | Description | Size in | ID in | Wt lbm/ft | Top ft | Bottom ft | | |
| Open Hole Section | 26" Open Hole | | 26 | | 0 | 150 | | |
| Casing | 16" Conductor | 16 | | 42.1 | 0 | 150 | | |
| Open Hole Section | 12 1/4" Open Hole | | 12.250 | | 150 | 2,085 | 100 | |
| Casing | 8 5/8" Surface Casing | 8.63 | 7.921 | 32 | 0 | 2,082 | | 45.14 |
| Casing | Multiple Stage Cementer | 8.63 | | | | 1,490 | | |

Pumping Schedule

| Fluid # | Fluid Type | Fluid Name | Density lbm/gal | Avg Rate bbl/min | Volume |
|---------|---------------|---------------------------|-----------------|------------------|-----------|
| 1 | Spacer | Fresh Water | 8.33 | 2.00 | 10 bbls |
| 3 | Cement Slurry | VariCem V1 1st Stage Tail | 13.50 | 5.50 | 780 sacks |
| 4 | Spacer | Displacement Fluid | 8.40 | 6.00 | 124 bbls |

Fluids Pumped

Stage/Plug # 1 Fluid 1: Fresh Water

Fluid Density: 8.33 lbm/gal
Pump Rate: 2.00 bbl/min

Stage/Plug # 1 Fluid 3: VariCem V1 1st Stage Tail
VARICEM (TM) CEMENT
0.125 lbm Poly-E-Flake

Fluid Weight: 13.50 lbm/gal
Slurry Yield: 1.73 ft³/sack
Total Mixing Fluid: 9.20 Gal

Stage/Plug # 1 Fluid 4: Displacement Fluid

Fluid Density: 8.40 lbm/gal
Pump Rate: 6.00 bbl/min

HALLIBURTON

Job Summary

Job Information

| | |
|---|------------------------|
| Job Start Date | 8/16/2013 5:45:00 AM |
| Job MD | 2,085.0 ft |
| Job TVD | 2,085.0 ft |
| Height of Plug Container/Swage Above Rig Floor | 4.0 ft |
| Surface Temperature at Time of Job | 65 degF |
| Name of Mud Company | BAROID DRILLING FLUIDS |
| Time From End Mud Circ. to Job Start | 1,200.00 minute |
| Pipe Movement During Cementing | None |
| Calculated Displacement | 93.65 bbl |
| Amount of Cement Returns | 75.00 bbl |
| Job Displaced by (rig/halco) | Cement Unit HP Pumps |
| Annular flow Before Job? (Water/Gas) | Yes |
| Annular flow After Job? (Water/Gas) | No Flow Observed |
| Length of Rat Hole | 3.00 ft |

Cementing Equipment

| | |
|--|----------|
| Did Float Equipment Hold? | Yes |
| Plug set used? | Top Plug |
| Did Plugs Bump? | Yes |
| Did Stage Cementing Tool Open Properly? | Yes |

HALLIBURTON

Service Supervisor Reports

Job Log

| Date/Time | Activity Code | Rate (bpm) | Volume (bbl) | Pressure (psig) | Comments |
|------------------|--|------------|--------------|-----------------|---|
| 08/15/2013 09:30 | Call Out | | | | CALL OUT |
| 08/15/2013 11:30 | Pre-Convoy Safety Meeting | | | | PRE CONVOY MEETING |
| 08/15/2013 12:00 | Depart from Service Center or Other Site | | | | LEAVE YARD |
| 08/15/2013 15:00 | Arrive At Loc | | | | ARRIVE ON LOC |
| 08/15/2013 15:15 | Assessment Of Location Safety Meeting | | | | ASSESS LOC |
| 08/15/2013 15:30 | Other | | | | WAIT ON RIG TO RUN CASING |
| 08/15/2013 22:00 | Pre-Rig Up Safety Meeting | | | | PRE RIG MEETING |
| 08/15/2013 22:30 | Rig-Up Equipment | | | | RIG UP |
| 08/16/2013 00:30 | Other | | | | WAIT ON RIG TO FINISH CASING |
| 08/16/2013 05:00 | Rig-Up Completed | | | | FINISH RIG UP |
| 08/16/2013 05:30 | Pre-Job Safety Meeting | | | | PRE JOB SAFETY MEETING |
| 08/16/2013 05:50 | Test Lines | | | 3200.0 | TEST LINES |
| 08/16/2013 06:00 | Other | | | | TROUBLE MIXING |
| 08/16/2013 06:45 | Pump Spacer | 2.00 | 10 | 50.0 | PUMP WATER SPACER |
| 08/16/2013 06:52 | Pump Lead Cement | 5.50 | 240.3 | 200.0 | PUMP 240.3 BBLS 13.5 DEN, 1.73 YIELD, 9.2 GAL/SK, 780 SKS |
| 08/16/2013 07:39 | Shutdown | | | | SHUTDOWN |
| 08/16/2013 07:42 | Drop Plug | | | | DROP PLUG |
| 08/16/2013 07:45 | Pump Displacement | 6.00 | 124 | 600.0 | PUMP DISP |
| 08/16/2013 08:02 | Cement Returns to Surface | | | | CEMENT RETURNS TO SURFACE |
| 08/16/2013 08:14 | Bump Plug | | | 600.0 | BUMP PLUG TOOK 500 OVER |
| 08/16/2013 08:17 | Check Floats | | | | CHECK FLOATS 3/4 BBL BACK |
| 08/16/2013 08:20 | Drop Opening Device For Multiple Stage Cementer | | | | DROP OPENING TOOL |
| 08/16/2013 08:34 | Pressure Up | | | | PRESSURE UP ON TOOL |
| 08/16/2013 08:40 | Close Multiple Stage Cementer | | | 1300.0 | CLOSE TOOL TOOK TO 1800 |
| 08/16/2013 09:00 | Pre-Rig Down Safety Meeting | | | | PRE RIG DOWN MEETING |
| 08/16/2013 09:15 | Rig-Down Equipment | | | | RIG DOWN |
| 08/16/2013 10:30 | Pre-Convoy Safety Meeting | | | | PRE CONVOY MEETING |
| 08/16/2013 11:30 | Depart Location for Service Center or Other Site | | | | LEAVE LOC |

The Road to Excellence Starts with Safety

| | | | |
|--|---------------------------|--|------------------------------------|
| Sold To #: 365355 | Ship To #: 3088174 | Quote #: | Sales Order #: 900669205 |
| Customer: PEAKVIEW OPERATING LLC | | Customer Rep: | |
| Well Name: Kowach | | Well #: 24-9 SWD | API/UWI #: 05-081-07782 |
| Field: | City (SAP): CRAIG | County/Parish: Moffat | State: Colorado |
| Legal Description: SESW Section 9 Township 6N Range 90W | | | |
| Lat: N 40.485150 deg. | | Long: W -107.499180 deg. | |
| Contractor: Aztec | | Rig/Platform Name/Num: Aztec 781 | |
| Job Purpose: Cement Multiple Stages | | | |
| Well Type: Exploratory / Wildcat | | Job Type: Cement Multiple Stages | |
| Sales Person: EVANS, MATTHEW | | Srvc Supervisor: GAMBLES, BRAYDEN | MBU ID Emp #: 469413 |

Job Personnel

| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # |
|---------------------|---------|--------|--------------------------|---------|--------|------------------------------|---------|--------|
| FUCHS, ANDREW Peter | 20.5 | 489821 | FUCHS, BENJAMIN Reinhard | 20.5 | 470584 | GAMBLES, BRAYDEN Kade | 20.5 | 469413 |
| HAVILI, ETUATE S | 18.5 | 522123 | HINKLE, JOSHUA | 20.5 | 536739 | STINCHFIELD, ZACHARIAH Scott | 20.5 | 524221 |

Job Hours

| Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours | Date | On Location Hours | Operating Hours |
|--------------|-------------------|--|------------|-------------------|-----------------|------|-------------------|-----------------|
| 08.15.2013 | 9 | 0 | 08.15.2013 | 11.5 | 4 | | | |
| TOTAL | | Total is the sum of each column separately | | | | | | |

Job

| Formation Name | | | | | Job Times | | | | | | |
|------------------------|--|----------|--------|---------------|-------------------|---------------|-----------------|-----------------|-----------------|-------|-----|
| Formation Depth (MD) | | Top | Bottom | | | Date | Time | Time Zone | | | |
| Form Type | | BHST | | | | Called Out | 15 - Aug - 2013 | 09:30 | MST | | |
| Job depth MD | | 2085. ft | | Job Depth TVD | | 2085. ft | On Location | 15 - Aug - 2013 | 15:00 | MST | |
| Water Depth | | | | | Wk Ht Above Floor | | 4. ft | Job Started | 16 - Aug - 2013 | 05:45 | MST |
| Perforation Depth (MD) | | From | To | | | Job Completed | 16 - Apr - 2013 | 09:30 | MST | | |
| | | | | | Departed Loc | | 16 - Aug - 2013 | 11:30 | 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 |
|-------------------------|------------|-------------------|---------|-------|---------------|--------|---------|-----------|--------------|------------|---------------|
| 12 1/4" Open Hole | | | | 12.25 | | | | 150. | 2085. | | |
| 16" Conductor | New | | 16 | | 42.1 | | Unknown | . | 150 | | |
| 8 5/8" Surface Casing | New | | 8.625 | 7.921 | 32 | LTC | J-55 | . | 2082. | | |
| Multiple Stage Cementer | New | | 8.625 | . | | | L-80 | . | 1490 | | |

| Tools and Accessories | | | | | | | | | | | | | |
|-----------------------|--------|-----|-------------|--------|-------------|------|-----|------|-------|----------------|--------|-----|-------------|
| Type | Size | Qty | Make | Depth | Type | Size | Qty | Make | Depth | Type | Size | Qty | Make |
| Guide Shoe | | | | | Packer | | | | | Top Plug | | | |
| Float Shoe | 8.625" | 1 | Davis Lynch | 2,082' | Bridge Plug | | | | | Bottom Plug | | | |
| Float Collar | 8.625" | 1 | Davis Lynch | 2,034' | Retainer | | | | | SSR plug set | | | |
| Insert Float | | | | | | | | | | Plug Container | | | |
| Stage Tool | 8.625" | 1 | Davis Lynch | 1,490' | | | | | | Centralizers | 8.625" | 10 | Davis Lynch |

| Fluid Data | | | | | | | | | |
|-----------------|---------------------------|------------------------------|-----|---------|------------------------|--------------|------------------|--------------|------------------------|
| Stage/Plug #: 1 | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty uom | Mixing Density lbm/gal | Yield ft3/sk | Mix Fluid Gal/sk | Rate bbl/min | Total Mix Fluid Gal/sk |
| 1 | Fresh Water | | 10 | bbl | 8.33 | | | 2 | |
| 2 | VariCem V1 1st Stage Lead | VARICEM (TM) CEMENT (452009) | 115 | sacks | 13.5 | 1.73 | 9.2 | 5.5 | 9.2 |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 0.2 % | FE-2 (100001615) | | | | | | | |
| | 13.12 Gal | FRESH WATER | | | | | | | |
| 3 | VariCem V1 1st Stage Tail | VARICEM (TM) CEMENT (452009) | 665 | sacks | 13.5 | 1.73 | 9.2 | 5.5 | 9.2 |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 9.2 Gal | FRESH WATER | | | | | | | |
| 4 | Displacement Fluid | | 124 | bbl | 8.4 | | | 6 | |

| Calculated Values | | Pressures | | Volumes | | | | | |
|-------------------|-----|------------------|--|----------------|----|---------------------|-------|-----------|-------|
| Displacement | 124 | Shut In: Instant | | Lost Returns | | Cement Slurry | 240.3 | Pad | |
| Top Of Cement | | 5 Min | | Cement Returns | | Actual Displacement | 124 | Treatment | |
| Frac Gradient | | 15 Min | | Spacers | 10 | Load and Breakdown | | Total Job | 374.3 |

| Rates | | | | | | | | | |
|---------------------|--------|----------|-----------------|------------|--------------|-----------------|----|----------|-----------------|
| Circulating | | Mixing | | 5.5 | Displacement | | 6 | Avg. Job | 5.5 |
| Cement Left In Pipe | Amount | 45.14 ft | Reason | Shoe Joint | | | | | |
| Frac Ring # 1 @ | ID | | Frac ring # 2 @ | ID | | Frac Ring # 3 @ | ID | | Frac Ring # 4 @ |
| | | | | | | | | | |

| | |
|--|-----------------------------------|
| The Information Stated Herein Is Correct | Customer Representative Signature |
|--|-----------------------------------|