

HALLIBURTON

iCem[®] Service

Post Job Report

BONANZA CREEK ENERGY

For: Sam Mares

Date: Wednesday, December 17, 2014

State Seventy Holes K21-024-4 HNB Intermediate

Sincerely,
Derek Trier

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1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **State Seventy Holes K21-024-4HNB** cement **Intermediate** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton [Brighton]

Job Times

| | Date | Time | Time Zone |
|-----------------------------------|-------------|-------------|------------------|
| Requested Time On Location | 12/17 | 2100 | MTN |
| Called Out | | 1500 | |
| On Location | | 2054 | |
| Job Started | | 2215 | |
| Job Completed | 12/18 | 0142 | |
| Departed Location | | 0300 | |

1.2 Cementing Job Summary

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Cementing Job Summary

The Road to Excellence Starts with Safety

| | | | | | | | | | | | |
|--|--------------------|--|-----------------------|-----------------------------------|---------------------------------|----------------------------|------------------------|-----------------------------|---------------|---------------|---------------------|
| Sold To #: 324725 | | Ship To #: 3463667 | | Quote #: | | Sales Order #: 0901934373 | | | | | |
| Customer: BONANZA CREEK ENERGY | | | | Customer Rep: Lee Perdue | | | | | | | |
| Well Name: STATE SEVENTY HOLES | | | Well #: K21-O24-4 HNB | | | API/UWI #: 05-123-39211-00 | | | | | |
| Field: WATTENBERG | | City (SAP): KERSEY | | County/Parish: WELD | | State: COLORADO | | | | | |
| Legal Description: NE NW-4-4N-62W-370FNL-1382FWL | | | | | | | | | | | |
| Contractor: | | | | Rig/Platform Name/Num: Frontier 4 | | | | | | | |
| Job BOM: 7522 | | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | | |
| Sales Person: HALAMERICA\H117930 | | | | | Srcv Supervisor: Bradley Hinkle | | | | | | |
| Job | | | | | | | | | | | |
| Formation Name | | | | | | | | | | | |
| Formation Depth (MD) | | Top | | | Bottom | | | | | | |
| Form Type | | | | | BHST | | | | | | |
| Job depth MD | | 6679ft | | | Job Depth TVD | | | | | | |
| Water Depth | | | | | Wk Ht Above Floor | | | | | | |
| Perforation Depth (MD) | | From | | | To | | | | | | |
| Well Data | | | | | | | | | | | |
| Description | New / Used | Size in | ID in | Weight lbm/ft | Thread | Grade | Top MD ft | Bottom MD ft | Top TVD ft | Bottom TVD ft | |
| Casing | | 9.625 | 8.921 | 36 | | | 0 | 450 | 0 | 0 | |
| Casing | | 7 | 6.276 | 26 | | P-110 | 0 | 6679 | 0 | 0 | |
| Open Hole Section | | | 8.75 | | | | 450 | 6689 | 0 | 0 | |
| Tools and Accessories | | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | | |
| Guide Shoe | 7 | | | 6679 | | Top Plug | 7 | | HES | | |
| Float Shoe | 7 | | | | | Bottom Plug | 7 | | HES | | |
| Float Collar | 7 | | | 6637 | | SSR plug set | 7 | | HES | | |
| Insert Float | 7 | | | | | Plug Container | 7 | | HES | | |
| Stage Tool | 7 | | | | | Centralizers | 7 | | HES | | |
| 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 /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 1 | Fresh Water Spacer | 20 bbs Fresh water, 10 bbis Mud Flush III, 20 bbis Fresh Water | | | 50 | bbl | 8.33 | | | 4 | |
| 42 gal/bbl | | FRESH WATER | | | | | | | | | |

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Cementing Job Summary

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
|------------------------------------|--------------|------------------------|----------------------------|--|---|--------------------------------|-----------------------------|---------------------|---------------------------|--|
| 2 | Lead Cement | ECONOCEM (TM) SYSTEM | 530 | sack | 12.5 | 1.89 | | 6 | 10.28 | |
| 10.28 Gal | | FRESH WATER | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
| 3 | Tail Cement | EXPANDACEM (TM) SYSTEM | 245 | sack | 14.6 | 1.46 | | 5 | 6.08 | |
| 6.08 Gal | | FRESH WATER | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
| 4 | Displacement | Fresh Water | 254 | bbl | 8.33 | | | 7 | | |
| Cement Left in Pipe | | Amount | 42 ft | | Reason | | | Shoe Joint | | |
| Mix Water: | | pH ## | Mix Water Chloride: ## ppm | | Mix Water Temperature: ## °F °C | | | | | |
| Cement Temperature: | | ## °F °C | | | Plug Displaced by: ## lb/gal kg/m ³ XXXX | | Disp. Temperature: ## °F °C | | | |
| Plug Bumped? | | Yes/No | | Bump Pressure: #### psi MPa | | Floats Held? Yes/No | | | | |
| Cement Returns: | | ## bbl m ³ | | Returns Density: ## lb/gal kg/m ³ | | Returns Temperature: ## °F °C | | | | |
| Comment 30 BBLs CEMENT TO SURFACE. | | | | | | | | | | |

1.3 Job Overview

| | | Units | Description |
|-----------|---|-------------------------------------|--------------------|
| 1 | Surface temperature at time of job | °F | |
| 2 | Mud type (OBM, WBM, SBM, Water, Brine) | - | WBM |
| 3 | Actual mud density | lb/gal | 9.3 |
| 4 | Actual mud Plastic Viscosity (PV) | cP | |
| 5 | Actual mud Yield Point (YP) | lb _f /100ft ² | |
| 6 | Actual mud 30 min Gel Strength | lb _f /100ft ² | |
| 7 | Time circulated before job | HH:MM | |
| 8 | Mud volume circulated | Bbls | |
| 9 | Rate at which well was circulated | Bpm | |
| 10 | Pipe movement during hole circulation | Y/N | N |
| 11 | Rig pressure while circulating | Psi | |
| 12 | Time from end mud circulation to start of job | HH:MM | |
| 13 | Pipe movement during cementing | Y/N | N |
| 14 | Calculated displacement | Bbls | 254 |
| 15 | Job displaced by | Rig/HES | HES |
| 16 | Annular flow before job | Y/N | N |
| 17 | Annular flow after job | Y/N | N |
| 18 | Length of rat hole | Ft | |
| 19 | Units of gas detected while circulating | Units | |
| 20 | Was lost circulation experienced at any time? | Y/N | N |

1.4 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | DH Density (ppg) | PS Pump Press (psi) | PS Pump Rate (bbl/min) | Pump Stg Tot (bbl) | Comment |
|-------|----------|--|--|-----------|----------|--------|------------------|---------------------|------------------------|--------------------|---|
| Event | 1 | Arrive at Location from Service Center | Arrive at Location from Service Center | 12/2/2014 | 21:00:00 | USER | | | | | Arrived on location rig down |
| Event | 2 | Assessment Of Location Safety Meeting | Assessment Of Location Safety Meeting | 12/2/2014 | 21:10:00 | USER | | | | | JSA and hazard hunt with HES crew |
| Event | 3 | Rig-Up Equipment | Rig-Up Equipment | 12/3/2014 | 11:00:00 | USER | 2.16 | 5.00 | 0.00 | 0.0 | Rigged up HES lines and equipment |
| Event | 4 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 12/3/2014 | 11:30:00 | USER | 2.10 | 6.00 | 0.00 | 0.0 | JSA with HES and rig crew on job procedure |
| Event | 5 | Start Job | Start Job | 12/3/2014 | 11:45:52 | COM6 | 8.28 | 10.00 | 0.00 | 30.8 | |
| Event | 6 | Test Lines | Test Lines | 12/3/2014 | 11:51:53 | COM6 | 8.34 | 902.00 | 0.00 | 2.3 | Test lines to 4000psi |
| Event | 7 | Pump Spacer 1 | Pump Spacer 1 | 12/3/2014 | 11:57:20 | COM6 | 8.34 | 20.00 | 0.00 | 2.3 | Pump 20bbls of Mud Flush |
| Event | 8 | Pump Spacer 2 | Pump Spacer 2 | 12/3/2014 | 12:04:54 | COM6 | 8.26 | 204.00 | 3.10 | 0.0 | Pump 20bbls of Water |
| Event | 9 | Pump Lead Cement | Pump Lead Cement | 12/3/2014 | 12:16:09 | COM6 | 8.31 | 77.00 | 0.80 | 20.1 | Pump 188bbls of 12.5ppg Lead Cement |
| Event | 10 | Pump Tail Cement | Pump Tail Cement | 12/3/2014 | 12:54:24 | COM6 | 14.47 | 53.00 | 2.30 | 181.7 | Pump 55bbls of 14.6ppg Tail Cement |
| Event | 11 | Shutdown | Shutdown | 12/3/2014 | 13:11:34 | COM6 | 14.54 | 21.00 | 0.00 | 17.5 | |
| Event | 12 | Drop Top Plug | Drop Top Plug | 12/3/2014 | 13:15:34 | COM6 | 14.49 | 15.00 | 0.00 | 17.5 | Plug pre loaded in HES head |
| Event | 13 | Pump Displacement | Pump Displacement | 12/3/2014 | 13:17:58 | COM6 | 14.49 | 23.00 | 0.90 | 17.6 | Pump 268bbls of Mud. Mudflush to surface at 235away giving us 38bbls of spacer to surface |
| Event | 14 | Bump Plug | Bump Plug | 12/3/2014 | 14:03:52 | COM6 | 8.13 | 2269.00 | 4.00 | 257.2 | Bumped plug at 1897 took 500 over and held for 3 mins |
| Event | 15 | Check Floats | Check Floats | 12/3/2014 | 14:08:26 | USER | 8.09 | 210.00 | 0.00 | 257.6 | Checked floats, floats good |
| Event | 16 | Test Lines | Test Lines | 12/3/2014 | 14:11:26 | COM6 | 8.16 | 23.00 | 0.90 | 257.6 | Casing test 2500psi for 30 mins. |
| Event | 17 | End Job | End Job | 12/3/2014 | 14:45:32 | COM6 | 8.22 | 10.00 | 0.00 | 259.7 | Thank you Markovich and crew |

3.0 Appendix
