

BONANZA CREEK ENERGY

PRONGHORN
Pronghorn 11-41-28HNB

CADE 22

Post Job Summary
Cement Intermediate Casing

Date Prepared: 1/19/2014
Version: 1

Service Supervisor: BIRCHELL, DEVIN

Submitted by: ESTENSSORO, SEBASTIAN

HALLIBURTON

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Wellbore Geometry

| Job Tubulars | | | | | MD | | TVD | | Shoe Joint Length ft |
|-------------------|--------------------------|---------|-------|-----------|--------|-----------|--------|-----------|----------------------|
| Type | Description | Size in | ID in | Wt lbm/ft | Top ft | Bottom ft | Top ft | Bottom ft | |
| Casing | 9 5/8" Surface Casing | 9.63 | 8.921 | 36.00 | 0.00 | 763.00 | | | 42.00 |
| Open Hole Section | 8 3/4" Open Hole Section | | 8.750 | | 763.00 | 6,550.00 | 763.00 | 6,082.00 | 0.00 |
| Casing | 7" Intermediate Casing | 7.00 | 6.276 | 26.00 | 0.00 | 6,550.00 | 0.00 | 6,082.00 | 42.00 |

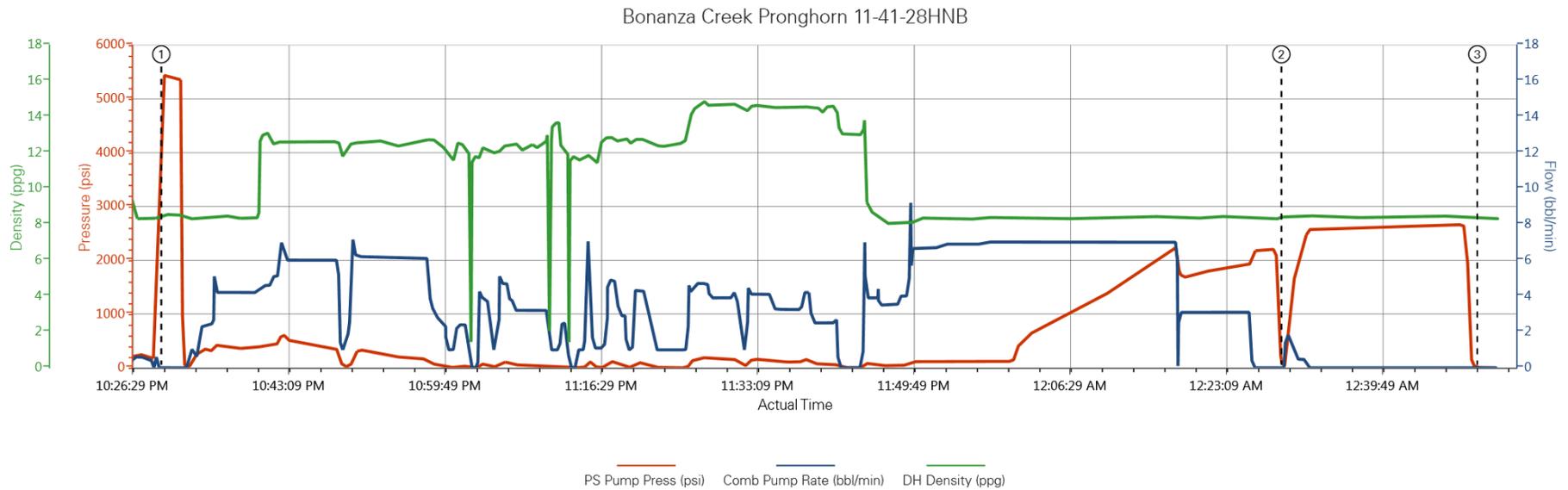
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Pumping Schedule

| Stage /Plug # | Fluid # | Fluid Type | Fluid Name | Surface Density lbm/gal | Avg Rate bbl/min | Surface Volume | Downhole Volume |
|----------------------|----------------|-------------------|---------------------|--------------------------------|-------------------------|-----------------------|------------------------|
| 1 | 1 | Spacer | MudFlush III | 8.40 | 4.00 | 24.0 bbl | 24.0 bbl |
| 1 | 2 | Cement Slurry | Econocem B2 12.5# | 12.50 | 6.00 | 537.0 sacks | 537.0 sacks |
| 1 | 3 | Cement Slurry | ExpandaCem B1 14.6# | 14.60 | 4.50 | 215.0 sacks | 215.0 sacks |
| 1 | 4 | Spacer | Displacement | 8.33 | 4.00 | 246.0 bbl | 246.0 bbl |

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Data Acquisition



① 5436,0,8.53

② 18,0,8.39

③ 0,0,8.4

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Service Supervisor Reports

Job Log

| Date/Time | Chart # | Activity Code | Pump Rate | Cum Vol | Pump | Pressure (psig) | Comments |
|------------------|---------|---|-----------|---------|------|-----------------|--|
| 01/18/2014 13:30 | | Call Out | | | | | Called out for Bonanza Creek Pronghorn 11-41-28HNB Intermediate |
| 01/18/2014 17:30 | | Pre-Convoy Safety Meeting | | | | | Discuss road and weather conditions, fatigue and following distance |
| 01/18/2014 18:00 | | Depart from Service Center or Other Site | | | | | Call journey management, Depart for location |
| 01/18/2014 19:00 | | Arrive At Loc | | | | | Close journey, talk with compan rep on valumes, rates, and depth, rig still running casing |
| 01/18/2014 19:05 | | Wait on Customer or Customer Sub-Contractor Equip | | | | | Wait for rig crew to finish running casing |
| 01/18/2014 20:30 | | Casing on Bottom | | | | | Casing on bottom rig will circulate until HES is rigged up |
| 01/18/2014 20:30 | | Pre-Rig Up Safety Meeting | | | | | Discussed rig up, line of fire, slips, and pinch points |
| 01/18/2014 20:40 | | Rig-Up Equipment | | | | | Rig up ground line, and suction hoses |
| 01/18/2014 21:50 | | Pre-Job Safety Meeting | | | | | Discuss pump schedule, procedure, high pressure iron, and emergency plan |
| 01/18/2014 22:20 | | Other | | | | | Stop circulating rigged up cement head and tied into stand pipe |
| 01/18/2014 22:25 | | Other | | | | | filled lines to pressure test pump and lines |
| 01/18/2014 22:28 | | Pressure Test | | | | 5436.0 | Pressure test pump and lines to 5436 psi held for 3 minutes |
| 01/18/2014 22:32 | | Pump Spacer | 4 | 24 | | 383.0 | Pump 24 bbls Mud Flush Spacer III at 8.4 ppg |
| 01/18/2014 22:39 | | Pump Lead Cement | 6 | 181 | | 416.0 | Pump lead cement at 12.5 ppg Y: 1.89ft ³ /sk W: 10.82gal/sk (537sks) |
| 01/18/2014 23:24 | | Slow Rate | | | | | Slowed rate to swap pods from lead to tail |
| 01/18/2014 23:25 | | Pump Tail Cement | 4.5 | 56 | | 186.0 | Pump tail cement at 14.6 ppg Y: 1.46ft ³ /sk W: 6.07gal/sk (215sks) |
| 01/18/2014 23:42 | | Shutdown | | | | | Shutdown to drop top plug |
| 01/18/2014 23:43 | | Drop Top Plug | | | | | Dropped top plug, washed pump and lines on plug |
| 01/18/2014 23:44 | | Pump Displacement - Start | 4 | | | 42.0 | Pump displacement 246 bbls water |
| 01/18/2014 23:47 | | Returns To Surface | 7 | 10 | | 46.0 | Returns seen at surface with 10 bbls displacement away |
| 01/19/2014 00:01 | | Displ Reached Cmmt | 7 | 98 | | 414.0 | displacement reached cement with 98 bbls away |
| 01/19/2014 00:15 | | Spacer Returns to Surface | 7 | 203 | | 1570.0 | With 203 bbls displacement away spacer returns to surface (24 bbls) |
| 01/19/2014 00:21 | | Cement Returns to Surface | 3 | 227 | | 1805.0 | With 227 bbls displacement away Cement returns to surface (19 bbls) |
| 01/19/2014 00:26 | | Bump Plug | 3 | 246 | | 1760.0 | Bumped plug with 246 bbls with 1760 psi took pressure to 2197 psi |
| 01/19/2014 00:28 | | Check Floats | | | | | Checked floats, floats held with 1.5 bbls back to truck |
| 01/19/2014 00:31 | | Pressure Up | | | | 2590.0 | Pressure up casing to 2590 psi and hold for 15 minutes |
| 01/19/2014 00:49 | | Release Casing Pressure | | | | | Released pressure ready for rig down |
| 01/19/2014 00:55 | | Rig-Down Equipment | | | | | Begin rigging down all iron and suction hoses |
| 01/19/2014 01:55 | | Pre-Convoy Safety Meeting | | | | | Discussed fatigue, wildlife, weather, and journey management |
| 01/19/2014 02:00 | | Depart Location for Service Center or Other Site | | | | | Depart for Halliburton Service Center |
| 01/19/2014 16:11 | | Pre-Rig Down Safety Meeting | | | | | Discussed trapped pressure, slips, trips, falls, and overhead loads |

The Road to Excellence Starts with Safety

| | | | | | | | | | | | |
|---|--------------------------|-------------------------------|---|---|--------------------------------|------------------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|
| Sold To #: 324725 | | Ship To #: 3274567 | | Quote #: | | Sales Order #: 901047879 | | | | | |
| Customer: BONANZA CREEK ENERGY | | | | Customer Rep: JOEL, TIM | | | | | | | |
| Well Name: Pronghorn | | | Well #: 11-41-28HNB | | API/UWI #: 05-123-38633 | | | | | | |
| Field: WATTENBERG | | City (SAP): MASTERS | | County/Parish: Weld | | State: Colorado | | | | | |
| Lat: N 40.375 deg. OR N 40 deg. 22 min. 31.008 secs. | | | | Long: W 104.222 deg. OR W -105 deg. 46 min. 39.756 secs. | | | | | | | |
| Contractor: CADE | | | Rig/Platform Name/Num: Cade 22 | | | | | | | | |
| Job Purpose: Cement Intermediate Casing | | | | | | | | | | | |
| Well Type: Development Well | | | | Job Type: Cement Intermediate Casing | | | | | | | |
| Sales Person: FLING, MATTHEW | | | Srvc Supervisor: BIRCHELL, DEVIN | | | MBU ID Emp #: 466993 | | | | | |
| Job Personnel | | | | | | | | | | | |
| HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | HES Emp Name | Exp Hrs | Emp # | | | |
| BIRCHELL, DEVIN Ray | 0.0 | 466993 | MILLER, GEOFFREY Alan | 0.0 | 460232 | NESBITT, ROY Iverson | 0.0 | 537416 | | | |
| Equipment | | | | | | | | | | | |
| HES Unit # | <i>Distance-1 way</i> | HES Unit # | <i>Distance-1 way</i> | HES Unit # | <i>Distance-1 way</i> | HES Unit # | <i>Distance-1 way</i> | | | | |
| 10866493C | 50 mile | 11106651 | 50 mile | 11341988C | 50 mile | 11398319 | 50 mile | | | | |
| 11562544C | 50 mile | 11645065 | 50 mile | | | | | | | | |
| Job Hours | | | | | | | | | | | |
| Date | <i>On Location Hours</i> | Operating Hours | Date | <i>On Location Hours</i> | Operating Hours | Date | <i>On Location Hours</i> | Operating Hours | | | |
| | | | | | | | | | | | |
| TOTAL | | | | <i>Total is the sum of each column separately</i> | | | | | | | |
| Job | | | | Job Times | | | | | | | |
| Formation Name | | | | Date | | | | | | | |
| Formation Depth (MD) Top Bottom | | | | Time | | | | | | | |
| Form Type | | | | Time Zone | | | | | | | |
| BHST | | | | Called Out | | | | | | | |
| Job depth MD 6450. ft | | | | 18 - Jan - 2014 13:30 MST | | | | | | | |
| Job Depth TVD 6081. ft | | | | On Location 18 - Jan - 2014 00:00 MST | | | | | | | |
| Water Depth | | | | Job Started 18 - Jan - 2014 22:30 MST | | | | | | | |
| Wk Ht Above Floor 6. ft | | | | Job Completed 19 - Jan - 2014 00:50 MST | | | | | | | |
| Perforation Depth (MD) From To | | | | Departed Loc 19 - Jan - 2014 02:00 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 |
| 8 3/4" Open Hole Section | | | | 8.75 | | | | 763. | 6550. | 763. | 6082. |
| 7" Intermediate Casing | Unknown | | 7. | 6.276 | 26. | | P-110 | . | 6550. | . | 6082. |
| 9 5/8" Surface Casing | Unknown | | 9.625 | 8.921 | 36. | | J-55 | . | 763. | | |

| 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 | MudFlush III | | 24.00 | bbl | 8.4 | | | 4.0 | |
| | 2.08 lbm/bbl | MUD FLUSH III, 40 LB SACK (101633304) | | | | | | | |
| 2 | Econocem B2 12.5# | ECONOCEM (TM) SYSTEM (452992) | 537.0 | sacks | 12.5 | 1.89 | 10.28 | 6.0 | 10.28 |
| | 0.125 lbm | POLY-E-FLAKE (101216940) | | | | | | | |
| | 10.28 Gal | FRESH WATER | | | | | | | |
| 3 | Expandacem B1 14.6# | HALCEM (TM) SYSTEM (452986) | 215.0 | sacks | 14.6 | 1.46 | 6.07 | 4.5 | 6.07 |
| | 6.07 Gal | FRESH WATER | | | | | | | |
| 4 | Displacement | | 246.0 | bbl | 8.33 | | | 4.0 | |
| <i>The Information Stated Herein Is Correct</i> | | | <i>Customer Representative Signature</i> | | | | | | |

