

HALLIBURTON

iCem[®] Service

SYNERGY OIL & GAS LP

Date: Thursday, December 20, 2018

SRC Bost Farm 41N-8A-L Foam Production

Job Date: Thursday, December 20, 2018

Sincerely,

Bryce Hinsch

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Bost Farm 41N-8A-L** cement **foam production** 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.

Approximately 12 bbls of spacer were returned to surface.

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 Fort Lupton

The Road to Excellence Starts with Safety

| | | | | | | | | | | |
|---|-------------------|---|-------------------------|---|-----------------------------------|----------------------------------|----------------------|---------------------|----------------------------|----------------------|
| Sold To #: 359915 | | Ship To #: 3902193 | | Quote #: 0022525649 | | Sales Order #: 0905353170 | | | | |
| Customer: SRC ENERGY INC-EBUS | | | | Customer Rep: Lovel Young | | | | | | |
| Well Name: BOST FARM | | | Well #: 41N-8A-L | | API/UWI #: 05-123-47699-00 | | | | | |
| Field: WATTENBERG | | City (SAP): GREELEY | | County/Parish: WELD | | State: COLORADO | | | | |
| Legal Description: SW NW-7-5N-66W-1437FNL-940FWL | | | | | | | | | | |
| Contractor: PRECISION DRLG | | | | Rig/Platform Name/Num: PRECISION 462 | | | | | | |
| Job BOM: 14143 14143 | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | |
| Sales Person: HALAMERICA\HB41307 | | | | Srv Supervisor: Steven Markovich | | | | | | |
| Job | | | | | | | | | | |
| | | | | | | | | | | |
| Formation Name | | | | | | | | | | |
| Formation Depth (MD) | | Top | | Bottom | | | | | | |
| Form Type | | | | BHST | | | | | | |
| Job depth MD | | 17497ft | | 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 | LTC | J-55 | 0 | 1807 | | 1807 |
| Casing | | 5.5 | 4.778 | 20 | TXP-BTC | P110IC | 0 | 17497 | 0 | 0 |
| Open Hole Section | | | 8.5 | | | | 1807 | 17515 | 0 | 1807 |
| | | | | | | | | | | |
| Tools and Accessories | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | |
| Guide Shoe | 5.5 | | | 17497 | | Top Plug | 5.5 | | HES | |
| Float Shoe | 5.5 | | | | | Bottom Plug | 5.5 | | HES | |
| Float Collar | 5.5 | | | | | SSR plug set | 5.5 | | HES | |
| Insert Float | 5.5 | | | | | Plug Container | 5.5 | | HES | |
| Stage Tool | 5.5 | | | | | Centralizers | 5.5 | | HES | |
| | | | | | | | | | | |
| Fluid Data | | | | | | | | | | |
| Stage/Plug #: 1 | | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal | |
| 1 | Tuned Spacer III | Tuned Spacer III | 40 | bbl | 11.5 | 3.84 | | | | |
| 36.09 gal/bbl | | FRESH WATER | | | | | | | | |
| 0.50 gal/bbl | | DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665) | | | | | | | | |
| 145.18 lbm/bbl | | BARITE, BULK (100003681) | | | | | | | | |

| | | | | | | | | | |
|--------------|-------------------|--|-------|---------|---------------------------|-------------------|------------------|-----------------|------------------------|
| 0.50 gal/bbl | | MUSOL(R) A, 5 GAL PAIL (100064220) | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 2 | HalCem | HALCEM (TM) SYSTEM | 528 | sack | 15.6 | 1.18 | | 6 | 5.2 |
| 5.08 Gal | | FRESH WATER | | | | | | | |
| 2.50 % | | FOAMER 1026, TOTE (102166506) | | | | | | | |
| 0.30 % | | SCR-742, 50 LB BAG (102027729) | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 3 | HalSeal | HALSEAL (TM) SYSTEM | 770 | sack | 15.6 | 1.18 | | 6 | 5.2 |
| 2.50 % | | FOAMER 1026, TOTE (102166506) | | | | | | | |
| 5.08 Gal | | FRESH WATER | | | | | | | |
| 0.30 % | | SCR-742, 50 LB BAG (102027729) | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 4 | NeoCem | NeoCem TM | 1075 | sack | 13.2 | 2.06 | | 6 | 9.83 |
| 0.09 % | | SCR-100 (100003749) | | | | | | | |
| 9.83 Gal | | FRESH WATER | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 5 | MMCR Displacement | MMCR Displacement | 20 | bbl | 8.34 | | | | |
| 0.20 gal/bbl | | MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781) | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 6 | Water | Water | 294.4 | bbl | 8.33 | | | | |
| 1 gal/Mgal | | CLA-WEB - BULK (101985043) | | | | | | | |
| | | | | | | | | | |
| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft3/sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 7 | MMCR Displacement | MMCR Displacement | 70 | bbl | 8.34 | | | | |

| | | | | | |
|---|--------|---|----------|------------------------|----------|
| 0.20 gal/bbl | | MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781) | | | |
| | | | | | |
| Cement Left In Pipe | Amount | 0 ft | | Reason | Wet Shoe |
| Mix Water: | pH 7 | Mix Water Chloride: | <200 ppm | Mix Water Temperature: | 60 °F °C |
| <p>Comment 170 gallons of Foamer 1026 used. The N2 unit started with 169,700 scf and ended with 101,000. Total N2 used for the job was 68,700 scf (39,518 scf for foam cement and 29,182 scf during conditioning and cool down) Pump 384 bbls of fresh water displacement, 10 gallons of MMCR in first 20 bbls and 10 gallons in last 70 bbls. 20 gallons of Cla-Web and 3 lbs of Be-3 used throughout. Returns diverted at 372 bbls into displacement to three-sided tank. Density on returns was 11.2ppg prior to diverting. 12 bbls of spacer returned to surface</p> <p>Bump plug at 2990 psi brought up to 3600 psi to ensure seat before continuing on to shear the wet shoe sub. Sheared wet shoe sub at 5908psi, pumped 6 bbls wet shoe at 4bbl/min. Opened release line to check floats, after 5bbls back floats held. Company mand requested we pump that back in plus 2 bbls for a total of 7bbls back in. Checked floats again and after 4.5bbls back float held. Estimated Top of Cap Cement 561', Estimated Top of Lead Cement 3068' and Estimated Top of Tail Cement 7870'.</p> | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | Truck 1 Pressure (psi) | Truck 1 Density (ppg) | Pump Stg Tot (bbl) | Foamer Rate (gpm) | N2 Pressure (psi) | Comments |
|-------|----------|--|--|------------|----------|--------|------------------------|-----------------------|--------------------|-------------------|-------------------|---|
| Event | 1 | Call Out | Call Out | 12/19/2018 | 23:00:00 | USER | | | | | | Job called out at 2300 with an on location time of 0500 |
| Event | 2 | Crew Leave Yard | Crew Leave Yard | 12/20/2018 | 03:00:00 | USER | | | | | | JSA with HES crew on directions and road hazards on the way to location |
| Event | 3 | Arrive at Location from Service Center | Arrive at Location from Service Center | 12/20/2018 | 05:00:00 | USER | | | | | | Arrive on location, rig had a few joints left to run |
| Event | 4 | Pre-Rig Up Safety Meeting | Pre-Rig Up Safety Meeting | 12/20/2018 | 05:15:00 | USER | | | | | | JSA and hazard hunt with HES crew |
| Event | 5 | Rig-Up Equipment | Rig-Up Equipment | 12/20/2018 | 05:25:00 | USER | | | | | | Began to rig-up equipment and lines while rig was circulating |
| Event | 6 | Safety Meeting | Safety Meeting | 12/20/2018 | 08:30:00 | USER | 38.00 | 8.58 | 13.50 | 0.0 | 66.25 | Safety meeting held with all personnel on location to discuss job hazards and procedure. Hazards of foam operations as well as contingencies were discussed in detail |
| Event | 7 | Start Job | Start Job | 12/20/2018 | 09:24:53 | COM12 | 19.00 | 9.28 | | 0.1 | 57.19 | TD 17515' TP 17497' 5 1/2" 20# WSS 17394.5' OH 8.5" PC 1807' 9 5/8" 36# TVD 7143' MW 10.2 |
| Event | 8 | Drop Bottom Plug | Drop Bottom Plug | 12/20/2018 | 09:46:47 | COM11 | 55.00 | 10.79 | 4.20 | 0.1 | 40.07 | Bottom plug dropped, witnessed by company man |
| Event | 9 | Pump Spacer 1 | Pump Spacer 1 | 12/20/2018 | 09:47:00 | COM11 | 56.00 | 10.79 | 4.20 | 0.1 | 37.05 | Pump 40 bbls of 11.5ppg Tuned Spacer III, 3.84 yield, 20 gallons each of Musol A and Dual B added on the fly, 10 gallons D-Air 3000L used |

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|-------|----|------------------|------------------|------------|----------|-------|---------|-------|--------|-----|---------|--|
| | | | | | | | | | | | | as well. Pumped at 4 bbls/min at 400 psi |
| Event | 10 | Pump Lead Cement | Pump Lead Cement | 12/20/2018 | 10:05:09 | COM11 | 63.00 | 10.54 | 0.00 | 0.0 | 64.24 | Pump 111 bbls (528 sacks) of unfoamed cap cement at 15.6ppg, 1.18 yield. Pumped at 5 bbls/min at 600 psi. Top of cap cement at ~561' |
| Event | 11 | Check Weight | Check Weight | 12/20/2018 | 10:08:14 | COM11 | 763.00 | 15.67 | 9.90 | 3.0 | 70.28 | Weight verified by pressurized mud scale. |
| Event | 12 | Pump Cement | Pump Foam Cement | 12/20/2018 | 10:29:48 | COM11 | 1047.00 | 15.67 | 0.00 | 3.0 | 2524.00 | Pump 162 bbls (770 sacks) foamed lead cement at 15.6ppg, 1.18 yield. Foamed down to 13.2ppg. Pumped at 5 bbls/min at 1400 psi. Top of foam cement at ~3068' |
| Event | 13 | Check Weight | Check Weight | 12/20/2018 | 10:32:24 | COM11 | 1146.00 | 15.69 | 12.90 | 3.1 | 2718.32 | Weight verified by pressurized mud scale. |
| Event | 14 | Comment | Comment | 12/20/2018 | 10:47:34 | USER | 1416.00 | 15.68 | 88.50 | 3.1 | 4124.90 | 170 gallons of Foamer 1026 used. The N2 unit started with 169,700 scf and ended with 101,000. Total N2 used for the job was 68,700 scf (39,518 scf for foam cement and 29,182 scf during conditioning and cool down) |
| Event | 15 | Pump Tail Cement | Pump Tail Cement | 12/20/2018 | 11:02:43 | COM11 | 1172.00 | 14.57 | 163.90 | 3.1 | 2728.39 | Pumped 395 bbls (1078 sacks) tail cement at 13.2ppg, 2.057 yield. 5 gallons of D-Air 3000L used. Pumped at 8 bbls/min at 1500 psi. Top of tail cement at ~7870' |
| Event | 16 | Check Weight | Check Weight | 12/20/2018 | 11:03:07 | COM11 | 1053.00 | 14.05 | 1.90 | 3.1 | 2671.00 | Weight verified by pressurized mud scale. |

| | | | | | | | | | | | | |
|-------|----|-------------------|--------------------|------------|----------|-------|---------|-------|--------|-----|-------|---|
| Event | 17 | Check Weight | Check Weight | 12/20/2018 | 11:07:14 | COM11 | 675.00 | 13.14 | 21.70 | 0.0 | -3.22 | Weight verified by pressurized mud scale. |
| Event | 18 | Shutdown | Shutdown | 12/20/2018 | 11:57:06 | COM11 | 160.00 | 9.30 | 431.10 | 0.0 | -8.26 | Shutdown to wash pumps and lines, annulars closed |
| Event | 19 | Clean Lines | Clean Lines | 12/20/2018 | 11:58:18 | COM11 | 34.00 | 0.93 | 432.00 | 0.0 | -6.24 | Wash pumps and lines |
| Event | 20 | Drop Top Plug | Drop Top Plug | 12/20/2018 | 12:06:04 | COM11 | 38.00 | 8.36 | 450.40 | 0.0 | -7.25 | Drop top plug, witnessed by company man |
| Event | 21 | Pump Displacement | Pump Displacement | 12/20/2018 | 12:06:10 | COM11 | 38.00 | 8.36 | 450.40 | 0.0 | -6.24 | Pump 384 bbls of fresh water displacement, 10 gallons and MMCR in first 20 bbls and 10 gallons in last 70 bbls. 20 gallons of Cla-Web and 3 lbs of Be-3 used throughout. Returns diverted at 372 bbls into displacement to three-sided tank. Density on returns was 11.2ppg prior to diverting. 12 bbls of spacer returned to surface |
| Event | 22 | Bump Plug | Bump Plug | 12/20/2018 | 12:56:32 | COM11 | 3624.00 | 8.34 | 394.20 | 0.0 | -3.22 | Bump plug at 2990 psi brought up to 3600 psi to ensure seat before continuing on to shear the wet shoe sub |
| Event | 23 | Comment | Shear Wet Shoe Sub | 12/20/2018 | 12:58:02 | USER | 5810.00 | 8.39 | 397.00 | 0.0 | -4.23 | Sheared wet shoe sub at 5908psi, pumped 6 bbls wet shoe |
| Event | 24 | Check Floats | Check Floats | 12/20/2018 | 13:02:26 | USER | 2953.00 | 8.31 | 403.80 | 0.0 | -3.22 | Floats held, 5 bbls back to truck |
| Event | 25 | Comment | Comment | 12/20/2018 | 13:09:16 | USER | 324.00 | 8.30 | 403.80 | 0.0 | -4.23 | 7 more bbls pumped for wet shoe |
| Event | 26 | Check Floats | Check Floats | 12/20/2018 | 13:13:30 | USER | 3247.00 | 8.38 | 410.80 | 0.0 | -3.22 | Floats held a second time. 4.5 bbls back to the truck |

| | | | | | | | | | | | |
|-------|----|-----------------------------|-----------------------------|------------|----------|-------|-------|------|-----|-------|--|
| Event | 27 | End Job | End Job | 12/20/2018 | 13:16:22 | COM11 | 33.00 | 8.32 | 0.0 | -3.22 | Thank you from Steve Markovich and crew |
| Event | 28 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 12/20/2018 | 13:20:00 | USER | | | | | Rig down safety meeting held with HES crew on location prior to rigging down equipment and lines |

3.0 Attachments

3.1 SRC Bost Farm 41N-8A-L Foam Production Job Chart

