

HALLIBURTON

iCem[®] Service

SYNERGY RESOURCES CORPORATION

Falken 30C-14-S Production

Job Date: Thursday, December 28, 2017

Sincerely,

Fort Lupton District Cement

Legal Notice

Disclaimer:

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Falken 30C-14-S** cement 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.

20 bbls of cement 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 #: 3815882 | | Quote #: | | Sales Order #: 0904528066 | | | | |
| Customer: SYNERGY RESOURCES CORPORATION | | | | Customer Rep: . | | | | | | |
| Well Name: FALKEN | | | Well #: 30C-14-S | | | API/UWI #: 05-123-45119-00 | | | | |
| Field: WATTENBERG | | City (SAP): GREELEY | | County/Parish: WELD | | State: COLORADO | | | | |
| Legal Description: NE SE-11-6N-66W-1709FSL-276FEL | | | | | | | | | | |
| Contractor: PRECISION DRLG | | | | Rig/Platform Name/Num: PRECISION 562 | | | | | | |
| Job BOM: 7523 7523 | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | |
| Sales Person: HALAMERICA\HB41307 | | | | Srv Supervisor: Jordan Larue | | | | | | |
| Job | | | | | | | | | | |
| | | | | | | | | | | |
| Formation Name | | | | | | | | | | |
| Formation Depth (MD) | | Top | | Bottom | | | | | | |
| Form Type | | | | BHST | | | | | | |
| Job depth MD | | 13673ft | | Job Depth TVD | | 7279' | | | | |
| Water Depth | | | | Wk Ht Above Floor | | 4' | | | | |
| 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 | 1771 | 0 | 1771 |
| Casing | | 5.5 | 4.778 | 20 | | P-110 | 0 | 13652 | 0 | 7265 |
| Open Hole Section | | | 8.5 | | | | 1771 | 13673 | 1771 | 7265 |
| | | | | | | | | | | |
| Tools and Accessories | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | |
| Guide Shoe | 5.5 | | | | | Top Plug | 5.5 | 1 | WF | |
| Float Shoe | 5.5 | | | | | Bottom Plug | 5.5 | 1 | WF | |
| Float Collar | 5.5 | | | | | SSR plug set | 5.5 | | HES | |
| Insert Float | 5.5 | | | | | Plug Container | 5.5 | 1 | 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 | 3.8 | 23.8 | 6 | | |
| 35.10 gal/bbl | | FRESH WATER | | | | | | | | |
| 0.50 gal/bbl | | DUAL SPACER SURFACTANT B, 5 GAL PAIL (100003665) | | | | | | | | |
| 0.50 gal/bbl | | MUSOL A, 330 GAL TOTE - (790828) | | | | | | | | |

| | | | | | | | | | | |
|--|----------------------|--|---------------------|---------|---------------------------|-------------------|------------------|------------------------|------------------------|---------------|
| 147.42 lbm/bbl | | BARITE, BULK (100003681) | | | | | | | | |
| | | | | | | | | | | |
| 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 | ElastiCem Lead | ELASTICEM (TM) SYSTEM | 1076 | sack | 13.2 | 1.57 | | 8 | 7.54 | |
| 7.54 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 | |
| 3 | NeoCem | NeoCem TM | 782 | sack | 13.2 | 2.04 | | 8 | 9.77 | |
| 0.08 % | | SCR-100 (100003749) | | | | | | | | |
| 9.77 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 | |
| 4 | MMCR Displacement | MMCR Displacement | 10 | bbl | 8.34 | | | 10 | | |
| 0.50 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 | |
| 5 | Cla Web Displacement | Cla Web Displacement | 292 | bbl | 8.33 | | | 8 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Cement Left In Pipe | | Amount | 0 ft | | Reason | | | WET Shoe Joint | | |
| Mix Water: | | pH 7 | Mix Water Chloride: | | | 200 ppm | | Mix Water Temperature: | | 70 °F |
| Cement Temperature: | | NA | Plug Displaced by: | | | 8.33# H2O | | Disp. Temperature: | | 60 |
| Plug Bumped? | | Yes | Bump Pressure: | | | 2800 psi | | Floats Held? | | Yes 1BBL BACK |
| Cement Returns: | | 20 bbl | Returns Density: | | | 13.2# | | Returns Temperature: | | NA |
| Comment : BURST PLUG @ 4800 PSI BUMPED ON CALCULATED 302BBLs GONE 40BBLs SPACER AND 20 BBLs CMT TO SURFACE... TOP OF TAIL CMT 6712'... | | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | DS Pump Press (psi) | DH Density (ppg) | Comb Pump Rate (bbl/min) | Comments |
|-------|----------|---------------------------------------|---------------------------------------|------------|----------|--------|------------------------|---------------------|-----------------------------|---|
| Event | 1 | Call Out | Call Out | 12/27/2017 | 16:00:00 | USER | | | | ON LOCATION TIME 2230 |
| Event | 2 | Arrive At Loc | Arrive at location | 12/27/2017 | 21:00:00 | USER | | | | RIG RUNNING CASING |
| Event | 3 | Assessment Of Location Safety Meeting | Assessment Of Location Safety Meeting | 12/27/2017 | 21:15:00 | USER | | | | TALK TO CO REP WALK LOC FOR HAZARDS |
| Event | 4 | Other | Well Info | 12/27/2017 | 21:30:00 | USER | | | | TD 13673, TP 13652, FC @ 13602, OH 1771 TO 13673, 5.5" CS P110 20#, PC 9.625" 36# J55 1771, WF 10.3#OBM |
| Event | 5 | Other | Water Test | 12/27/2017 | 21:40:00 | USER | | | | ph 7, cl <200, temp 70°F, TANN PASS... |
| Event | 6 | Pre-Rig Up Safety Meeting | PRE RIG UP SAFETY MEETING | 12/27/2017 | 21:45:00 | USER | | | | JSA COMPLETED... HANDS SIGN JSA ON CEMENTING PROGRAM |
| Event | 7 | Rig-Up Equipment | RIG UP EQUIPMENT | 12/27/2017 | 22:00:00 | USER | | | | NO ACCIDENTS OR INJURIES |
| Event | 8 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 12/28/2017 | 02:00:00 | USER | 0.00 | 0.00 | 0.00 | JSA COMPLETED: ALL PERSONNEL SIGNED SIGN UP SHEET. REVIEW PUMP SCHEDULE AND WASH UP. |
| Event | 9 | Start Job | Start Job | 12/28/2017 | 02:02:27 | COM10 | | | | |
| Event | 10 | Test Lines | Test Lines | 12/28/2017 | 02:20:19 | COM10 | | | | 6000 PSI TEST GOOD |
| Event | 11 | Pump Spacer 1 | Pump Spacer 1 | 12/28/2017 | 02:21:46 | COM10 | | | | 40BBLs TUNED SPACER |

| | | | | | | | | | | |
|-------|----|-----------------------------|-----------------------------|------------|----------|-------|--------|------|------|---|
| 7 | | | | | | | | | | SCALED @ 11.5# |
| Event | 12 | Drop Bottom Plug | Drop Bottom Plug | 12/28/2017 | 02:28:38 | COM10 | | | | SLOWED TO 1BPM DROPED ON FLY BETWEEN SPACER AND LEAD CMT |
| Event | 13 | Pump Lead Cement | Pump Lead Cement | 12/28/2017 | 02:28:41 | COM10 | | | | 1076 SKS SCALED @ 13.2# |
| Event | 14 | Pump Tail Cement | Pump Tail Cement | 12/28/2017 | 03:05:59 | COM10 | | | | 782 SKS SCALED @ 13.2# |
| Event | 15 | Drop Top Plug | Drop Top Plug | 12/28/2017 | 03:52:51 | COM10 | | | | WASH PUMPS AND LINES DROPED TOP PLUG |
| Event | 16 | Pump Displacement | Pump Displacement | 12/28/2017 | 03:52:58 | COM10 | 112.00 | 8.06 | 5.00 | 302 BBLS H2O W/ MMCR 1ST 10BBL AND CLAY WEB AND BIOCIDES LAST 292 BBLS... 40 BBLS SPACER TO SURFACE AND 20BBLS CMT CALLED TO SURFACE... FINAL LIFT PSI 2250 PSI |
| Event | 17 | Bump Plug | Bump Plug | 12/28/2017 | 04:31:49 | COM10 | | | | BUMPED ON CALC 302BBLS GONE TOOK TO 2800 PSI HELD FOR 4MIN... |
| Event | 18 | Other | BURST PLUG | 12/28/2017 | 04:35:31 | COM10 | | | | BURST PLUG 4800 PSI |
| Event | 19 | Other | PUMP WET SHOE 6BBL | 12/28/2017 | 04:36:24 | COM10 | | | | PUMP 6BBLS WET SHOE |
| Event | 20 | Other | CHECK FLOATS | 12/28/2017 | 04:39:21 | COM10 | | | | CHECK FLOATS THEY HELD 1BBL BACK |
| Event | 21 | End Job | End Job | 12/28/2017 | 04:40:07 | COM10 | | | | |
| Event | 22 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 12/28/2017 | 04:45:00 | USER | 12.00 | 0.43 | 1.00 | DISCUSS HAZARDS |
| Event | 23 | Rig-Down Equipment | Rig-Down Equipment | 12/28/2017 | 04:50:00 | USER | 1.00 | 0.36 | 0.00 | NO ACCIDENTS OR INJURIES |
| Event | 24 | Pre-Convoy Safety | Pre-Convoy Safety | 12/28/2017 | 06:30:00 | USER | | | | REVIEW DIRECTIONS |

| | | | | | | | | |
|-------|----|---------------------|---------------------|------------|----------|------|---|--|
| | | Meeting | Meeting | 7 | | | | |
| Event | 25 | Crew Leave Location | Crew Leave Location | 12/28/2017 | 07:00:00 | USER | BULK HEADING BACK TO YARD AND PUMP CREW SLEEPING ON LOC | |

3.0 Job Chart

3.1 Job Chart

