

HALLIBURTON

iCem[®] Service

SRC ENERGY INC-EBUS

Date: Thursday, January 25, 2018

Goetzl 32C-30-M2 PRODUCTION

Job Date: Friday, January 05, 2018

Sincerely,

JULIA NICHOLS

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **GOETZEL 32C-30-M2** 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.

Approximately 4 barrels of cement 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]



Cementing Job Summary

The Road to Excellence Starts with Safety

| Sold To #: 359915 | Ship To #: 3781551 | Quote #: | Sales Order #: 0904545857 | | | | | | | |
|--|---------------------|--|---------------------------|---------------|------------------------|-----------------------------|---------------|--------------|---------------------|---------------|
| Customer: SYNERGY RESOURCES CORPORATION | | Customer Rep: Tony Pershall | | | | | | | | |
| Well Name: GOETZEL | Well #: 32C-30-M2 | API/UWI #: 05-123-44186-00 | | | | | | | | |
| Field: WATTENBERG | City (SAP): GREELEY | County/Parish: WELD | State: COLORADO | | | | | | | |
| Legal Description: NE SW-29-6N-66W-2317FSL-2053FWL | | | | | | | | | | |
| Contractor: | | Rig/Platform Name/Num: Precision 462 | | | | | | | | |
| Job BOM: 7523 7523 | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | |
| Sales Person: HALAMERICA/HB41307 | | Srvc Supervisor: Nicholas Peterson | | | | | | | | |
| Job | | | | | | | | | | |
| Formation Name | | | | | | | | | | |
| Formation Depth (MD) | Top | Bottom | | | | | | | | |
| Form Type | | BHST | | | | | | | | |
| Job depth MD | 15,929' | Job Depth TVD | 7,087' | | | | | | | |
| Water Depth | | Wk Ht Above Floor | 5' | | | | | | | |
| 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 | 1792 | 0 | 0 |
| Casing | | 5.5 | 4.778 | 20 | | P-110 | 0 | 15929 | 0 | 0 |
| Open Hole Section | | | 8.5 | | | | 1800 | 15940 | 0 | 0 |
| Tools and Accessories | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | |
| Guide Shoe | 5.5 | 1 | WEATH | 15,929 | | Top Plug | 5.5 | 1 | WEATH | |
| Float Shoe | | | | | | Bottom Plug | 5.5 | 1 | WEATH | |
| Wet Shoe Sub | 5.5 | 1 | WEATH | 15,818 | | SSR plug set | | | | |
| Insert Float | | | | | | Plug Container | 5.5 | 1 | HES | |
| Stage Tool | | | | | | Centralizers | 5.5 | 254 | WEATH | |
| 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 | Tuned Spacer III | Tuned Spacer III | 40 | bbl | 11.5 | 3.8 | 23.8 | 6 | 952 | |
| 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) | | | | | | | | |

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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/min | Total Mix Fluid Gal |
|--|----------------------|--|------------------------------|---------|------------------------|-----------------------------|---------------|--------------|---------------------|
| 2 | ElastiCern Lead | ELASTICEM (TM) SYSTEM | 1006 | sack | 13.2 | 1.57 | 7.54 | 8 | 7,585 |
| 7.54 Gal | | FRESH WATER | | | | | | | |
| 3 | NeoCern Tail | NeoCern TM | 1091 | sack | 13.2 | 2.04 | 9.77 | 8 | 10,659 |
| 9.77 Gal | | FRESH WATER | | | | | | | |
| 0.08 % | | SCR-100 (100003749) | | | | | | | |
| 4 | MMCR Displacement | MMCR Displacement | 10 | bbl | 8.34 | | | 10 | 420 |
| 0.50 gal/bbl | | MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781) | | | | | | | |
| 5 | Cla Web Displacement | Cla Web Displacement | 341 | bbl | 8.33 | | | 10 | |
| 0.0570 gal/bbl | | CLA-WEB - TOTE (101985045) | | | | | | | |
| Cement Left In Pipe | | Amount | Reason | | | | | | |
| Mix Water: pH 7.0 | | Mix Water Chloride: 0 ppm | Mix Water Temperature: 72 °F | | | | | | |
| Cement Temperature: ## °F | | Plug Displaced by: 8.33 lb/gal | Disp. Temperature: 72 °F | | | | | | |
| Plug Bumped? Yes | | Bump Pressure: 2,490 psi | Floats Held? Yes | | | | | | |
| Cement Returns: 4 bbl | | Returns Density: 13.2 lb/gal | Returns Temperature: ## °F | | | | | | |
| Comment: Pumped 40 bbls Tuned Spacer, 281 bbls Lead, 396 bbls Tail. Washed lines with 6 bbls Fresh water before dropping top plug. Dropped top plug and displaced 10 bbls MMCR, followed by 341 bbls Fresh water with ClayWeb and Biocide. Cement to surface @ 347 bbls away, 4 bbls cement to surface. Checked floats 2 bbls back to surface | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | Downhole Density <i>(ppg)</i> | Combined Pump Rate <i>(bbl/min)</i> | Driv-Side Pump Pressure <i>(psi)</i> | Comments |
|-------|----------|---------------------------|---------------------------|----------|----------|--------|----------------------------------|--|---|---|
| Event | 1 | Call Out | Call Out | 1/5/2018 | 14:00:00 | USER | | | | CREW CALLED OUT AT 14:00, REQUESTED ON LOCATION 19:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660 10867098, Bulk 660 10867415, AND PUMP 11189145. |
| Event | 2 | Pre-Convoy Safety Meeting | Pre-Convoy Safety Meeting | 1/5/2018 | 17:15:00 | USER | | | | CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW. |
| Event | 3 | Crew Leave Yard | Crew Leave Yard | 1/5/2018 | 17:30:00 | USER | | | | STARTED JOURNEY MANAGEMENT. |
| Event | 4 | Arrive At Loc | Arrive At Loc | 1/5/2018 | 19:15:00 | USER | | | | END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1,800', 5.5" CASING: 20 LB/FT TOTAL 15,928.72', 8.5" HOLE, TD 15,940', 110.27 SHOE TRAC, TVD- 7,087'. PUMP FRESH WATER DISPLACEMENT WITH MMCR FIRST 10 BBLS. CASING LANDED @ 18:45 01/05/2018. RIG CIRCULATED 2 BOTTOMS UP. |
| Event | 5 | Pre-Rig Up Safety Meeting | Pre-Rig Up Safety Meeting | 1/5/2018 | 19:20:00 | USER | | | | HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER. |
| Event | 6 | Rig-Up Equipment | Rig-Up Equipment | 1/5/2018 | 19:30:00 | USER | | | | CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB. |
| Event | 7 | Rig-Up Completed | Rig-Up Completed | 1/5/2018 | 20:30:00 | USER | 0.36 | 0.00 | 91.00 | WAITED ON RIG TO FINISH CIRCULATING. |
| Event | 8 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 1/5/2018 | 21:30:00 | USER | 8.45 | 0.00 | 16.00 | SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS. |
| Event | 9 | Start Job | Start Job | 1/5/2018 | 21:59:56 | COM5 | 0.85 | 0.00 | -8.00 | BEGIN RECORDING JOB DATA. |
| Event | 10 | Test Lines | Test Lines | 1/5/2018 | 22:06:04 | COM5 | 8.60 | 0.00 | 4952.00 | PRESSURE TESTED IRON TO 4,800 PSI. KICKOUTS SET @ 500 PSI, KICKED OUT @ 1,700 PSI, 5TH GEAR STALL OUT @ 2,230 PSI. |
| Event | 11 | Pump Spacer 1 | Pump Spacer 1 | 1/5/2018 | 22:19:17 | COM5 | 11.53 | 4.00 | 259.00 | PUMP 40 BBLS OF TUNED SPACER @ 11.5 LB/GAL, 10 |

GALLONS D-AIR, 20 GALS DUAL SPACER B, 20 GALS MUSOL A. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 4 BBLS/MIN @ 340 PSI.

| | | | | | | | | | | |
|-------|----|-----------------------------|-----------------------------|----------|----------|------|-------|------|---------|---|
| Event | 12 | Drop Bottom Plug | Drop Bottom Plug | 1/5/2018 | 22:25:15 | USER | 11.78 | 4.70 | 328.00 | PLUG LEFT CONTAINER, VERIFIED BY CO. MAN. |
| Event | 13 | Pump Lead Cement | Pump Lead Cement | 1/5/2018 | 22:31:27 | COM5 | 13.31 | 4.70 | 296.00 | PUMPED 1,006 SKS OF ELASTICEM WITH CBL @ 13.2 LB/GAL, 1.57 FT3/SK, 7.54 GAL/SK. 281.29 BBLS, HOL CALCULATED @ 959', TOL CALCULATED @ SURFACE. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN 670 PSI. |
| Event | 14 | Pump Tail Cement | Pump Tail Cement | 1/5/2018 | 23:10:22 | COM5 | 13.18 | 7.90 | 550.00 | PUMP 1,091 SKS OF NEOCEM @ 13.2 LB/GAL, 2.04 FT3/SK, 9.77 GAL/SK, 396.38 BBLS. HOT CALCULATED @ 9,715.19', TOT CALCULATED @ 6,213.52'. DENSITY VERIFIED BY PRESSURIZED MUD SCALES. PUMP RATE 8 BBLS/MIN @ 1,300 PSI. |
| Event | 15 | Bump Plug | Bump Plug | 1/5/2018 | 23:19:41 | USER | 13.18 | 7.90 | 708.00 | BOTTOM PLUG RUPTURED. |
| Event | 16 | Clean Lines | Clean Lines | 1/6/2018 | 00:07:28 | USER | 12.97 | 0.00 | -20.00 | CLEAN LINES WITH 8 BBLS WATER BEFORE DISPLACING PLUG. |
| Event | 17 | Drop Top Plug | Drop Top Plug | 1/6/2018 | 00:13:39 | COM5 | 6.33 | 0.00 | -12.00 | PLUG LEFT CONTAINER, VERIFIED BY CO. MAN. |
| Event | 18 | Pump Displacement | Pump Displacement | 1/6/2018 | 00:15:36 | COM5 | 8.23 | 5.70 | 1268.00 | BEGIN CALCULATED DISPLACEMENT OF 351 BBLS WITH FRESH WATER. PUMPED THE FIRST 10 BBLS WITH MMCR, PUMPED 341 BBLS WITH BIOCID, AND CLAYWEB. CEMENT TO SURFACE 347 BBLS AWAY, 4 BBLS CEMENT TO SURFACE. |
| Event | 19 | Bump Plug | Bump Plug | 1/6/2018 | 01:17:47 | COM5 | 8.34 | 0.00 | 3634.00 | PLUG BUMPED AT CALCULATED DISPLACEMENT. 2,453 PSI PRESSURED 500 PSI OVER BUMP. |
| Event | 20 | Shift Tool Lower | Shift Tool Lower | 1/6/2018 | 01:21:06 | USER | 8.34 | 4.60 | 2822.00 | SHIFTED WET SHOE SUB @ 4,963 PSI. FOLLOWED BY 6 BBLS WET SHOE @ 5 BBLS/MIN. |
| Event | 21 | Check Floats | Check Floats | 1/6/2018 | 01:22:27 | USER | 8.32 | 0.00 | 2462.00 | RELEASED PRESSURE, FLOATS HELD, 2 BBLS BACK. |
| Event | 22 | End Job | End Job | 1/6/2018 | 01:24:04 | COM5 | | | | STOP RECORDING JOB DATA. |
| Event | 23 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 1/6/2018 | 01:30:00 | USER | 8.28 | 0.00 | 65.00 | DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES. |
| Event | 24 | Rig-Down Equipment | Rig-Down Equipment | 1/6/2018 | 02:00:00 | USER | | | | RIG DOWN BULK AND MIXING EQUIPMENT. |

| | | | | | | | |
|-------|----|---------------------------|---------------------------|----------|----------|------|---|
| Event | 25 | Rig-Down Completed | Rig-Down Completed | 1/6/2018 | 03:00:00 | USER | ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN. |
| Event | 26 | Pre-Convoy Safety Meeting | Pre-Convoy Safety Meeting | 1/6/2018 | 03:15:00 | USER | CREW DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW. |
| Event | 27 | Crew Leave Location | Crew Leave Location | 1/6/2018 | 03:30:00 | USER | THANK YOU FOR USING HALLIBURTON – NICK PETERSON AND CREW. |

3.0 Attachments

3.1 Custom Results – Job Chart with Events



3.2 Custom Results – Job Chart without Events

