

HALLIBURTON

iCem[®] Service

CONFLUENCE DJ LLC-EBUS

Ft. Lupton District, COLORADO

Date: Monday, March 02, 2020

SILVERTON 5-5-2L Surface

Job Date: Monday, March 02, 2020

Sincerely,

JOSHUA WASHBURN

Legal Notice

Disclaimer:

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Table of Contents

1.0 Cementing Job Summary 4

 1.1 Executive Summary4

2.0 Real-Time Job Summary 7

 2.1 Job Event Log7

3.0 Attachments..... 10

 3.1 CONFLUENCE SILVERTON 5-5-2L 906357316-Custom Results.png10

1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Silverton 5-5-2L** cement **surface** 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 28 bbls 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

The Road to Excellence Starts with Safety

| | | | | | | | | | | | |
|--|------------------------|--------------------|----------------|-----------------------------------|----------------------------|---------------------------|------------------------|----------------|---------------|---------------|---------------------|
| Sold To #: 375989 | | Ship To #: 3917418 | | Quote #: | | Sales Order #: 0906357316 | | | | | |
| Customer: CONFLUENCE DJ LLC-EBUS | | | | Customer Rep: BRYAN OLMSTAD | | | | | | | |
| Well Name: SILVERTON | | | Well #: 5-5-2L | | API/UWI #: 05-123-48434-00 | | | | | | |
| Field: WATTENBERG | | City (SAP): KERSEY | | County/Parish: WELD | | State: COLORADO | | | | | |
| Legal Description: SW NW-4-4N-63W-2659FNL-255FWL | | | | | | | | | | | |
| Contractor: ENSIGN DRLG | | | | Rig/Platform Name/Num: ENSIGN 122 | | | | | | | |
| Job BOM: 7521 7521 | | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | | |
| Sales Person: HALAMERICA/H171328 | | | | Srvc Supervisor: JOSHUA WASHBURN | | | | | | | |
| Job | | | | | | | | | | | |
| | | | | | | | | | | | |
| Formation Name | | | | | | | | | | | |
| Formation Depth (MD) | | Top | | Bottom | | | | | | | |
| Form Type | | | | BHST | | | | | | | |
| Job depth MD | | 1580ft | | 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 | 1580 | 0 | 0 | |
| Open Hole Section | | | 13.5 | | | | 0 | 1592 | | 0 | |
| | | | | | | | | | | | |
| Tools and Accessories | | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | | |
| Guide Shoe | 9.625 | | | 1580 | | Top Plug | 9.625 | | HES | | |
| Float Shoe | 9.625 | | | | | Bottom Plug | 9.625 | | HES | | |
| Float Collar | 9.625 | | | | | SSR plug set | 9.625 | | HES | | |
| Insert Float | 9.625 | | | | | Plug Container | 9.625 | | HES | | |
| Stage Tool | 9.625 | | | | | Centralizers | 9.625 | | 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 | Mud Flush III (Powder) | Mud Flush III | | | 40 | bbl | 8.4 | | | 8 | |
| 42 gal/bbl | | 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 |
|---------------------|--------------------|----------------------|---------------------------|--|---------------------------|--------------------------------|------------------------------|-----------------|---------------------------|
| 2 | 12.5# SwiftCem | SWIFTCEN (TM) SYSTEM | 275 | sack | 12.5 | 2.16 | 12.28 | 8 | |
| 12.28 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 | 13.5# SwiftCem | SWIFTCEN (TM) SYSTEM | 195 | sack | 13.5 | 1.74 | 9.16 | 8 | |
| 9.16 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 | Displacement fluid | | 119 | bbl | 8.3 | | | 8 | |
| | | | | | | | | | |
| | | | | | | | | | |
| Cement Left In Pipe | | Amount | 44 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/m3 XXXX | | | Disp. Temperature:## °F °C | | |
| Plug Bumped? | | Yes/No | | Bump Pressure:#### psi MPa | | | Floats Held?Yes/No | | |
| Cement Returns: | | ## bbl m3 | | Returns Density:## lb/gal kg/m3 | | | Returns Temperature:## °F °C | | |
| Comment | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq. No. | Activity | Graph Label | Date | Time | Source | Comb Pump Rate (bbl/min) | DS Pump Press (psi) | DH Density (ppg) | Pump Stg Tot (bbl) | Comments |
|-------|----------|--|--|----------|----------|--------|-----------------------------|------------------------|---------------------|-----------------------|---|
| Event | 1 | Call Out | Call Out | 3/2/2020 | 02:00:00 | USER | | | | | CREW CALLED OUT 02:00 |
| Event | 2 | Depart Yard Safety Meeting | Depart Yard Safety Meeting | 3/2/2020 | 03:00:00 | USER | | | | | DISCUSS ROUTE AND HAZARDS |
| Event | 3 | Crew Leave Yard | Crew Leave Yard | 3/2/2020 | 03:15:00 | USER | | | | | CREW DEPART YARD |
| Event | 4 | Arrive at Location from Service Center | Arrive at Location from Service Center | 3/2/2020 | 04:30:00 | USER | | | | | ARRIVE ON LOCATION, RIG DRILLING UPON HES ARRIVAL, SPOKE WITH THE COMPNAY MAN AND GOT NUMBERS. TD- 1592 TP- 1580 FC- 1535.95 CSG 9 5/8 36# OPEN HOLE 13.5 PREVE CSG 16" 80' MUD WEIGHT 8.4# |
| Event | 5 | Assessment Of Location Safety Meeting | Assessment Of Location Safety Meeting | 3/2/2020 | 04:45:00 | USER | | | | | DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, TESTED WATER PH-7 CHLORIDES-O TEMP- 55 DEGREES. |
| Event | 6 | Safety Meeting - Pre Rig-Up | Safety Meeting - Pre Rig-Up | 3/2/2020 | 11:00:00 | USER | 0.00 | 17.00 | 0.00 | 0.00 | DISCUSS HAZARDS AND WAYS TO MITIGATE THEM |
| Event | 7 | Safety Meeting - Pre Job | Safety Meeting - Pre Job | 3/2/2020 | 11:30:00 | USER | 1.10 | 172.00 | 8.47 | 12.90 | PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP |
| Event | 8 | Start Job | Start Job | 3/2/2020 | 11:51:39 | COM4 | 0.00 | 1.00 | 8.41 | 0.00 | STARTED RECORDING DATA. |
| Event | 9 | Test Lines | Test Lines | 3/2/2020 | 11:55:12 | COM4 | 0.00 | 15.00 | 8.34 | 3.20 | TESTED LINES TO 3000 PSI. |
| Event | 10 | Pump Spacer 1 | Pump Spacer 1 | 3/2/2020 | 12:03:55 | COM4 | 0.00 | 12.00 | 8.32 | 0.00 | MIXED AND PUMP 160 #'S OF MUD FLUSH AND 1 |

| | | | | | | | | | | | |
|-------|----|-------------------|-------------------|----------|----------|------|------|--------|-------|--------|--|
| | | | | | | | | | | | BOTTLE OF RED DYE INTO 40 BBLS OF FRESH WATER. PUMPED AT 8 BPM 195 PSI. |
| Event | 11 | Check Weight | Check Weight | 3/2/2020 | 12:09:07 | COM4 | 7.90 | 229.00 | 8.23 | 23.90 | CHECKED WEIGHT WITH PRESSURIZED SCALES. |
| Event | 12 | Pump Lead Cement | Pump Lead Cement | 3/2/2020 | 12:11:19 | COM4 | 7.90 | 273.00 | 11.33 | 0.10 | MIXED AND PUMPED 275 SACKS 105.79 BBLS OF LEAD CEMENT, 12.5 PPG, 2.16 YIELD, 12.28 GAL/SK, PUMPED AT 8 BPM 360 PSI. |
| Event | 13 | Pump Tail Cement | Pump Tail Cement | 3/2/2020 | 12:25:03 | COM4 | 7.90 | 290.00 | 12.53 | 0.10 | MIXED AND PUMPED 195 SACKS 60.43 BBLS OF TAIL CEMENT, 13.5 PPG, 1.74 YIELD, 9.16 GAL/SK, PUMPED 8 BPM 400 PSI. TOTC 924.48 ' |
| Event | 14 | Drop Top Plug | Drop Top Plug | 3/2/2020 | 12:35:54 | COM4 | 0.00 | 0.00 | 22.01 | 75.90 | LAUNCHED TOP PLUG. |
| Event | 15 | Pump Displacement | Pump Displacement | 3/2/2020 | 12:35:59 | COM4 | 0.00 | 0.00 | 22.20 | 0.00 | PUMPED 119 BBLS OF FRESH WATER DISPLACEMENT AT 10 BPM AT 550 PSI. GOT RED DYE SPACER BACK AT 60 BBLS AWAY AND GOT CEMENT TO SURFACE AT 91 BBLS AWAY. 28 BBLS TO SURFACE. |
| Event | 16 | Bump Plug | Bump Plug | 3/2/2020 | 12:54:33 | USER | 3.10 | 447.00 | 7.98 | 122.50 | BUMPED PLUG AT CALCULATED DISPLACEMENT , LAST CIRCULATING PSI 450, PRESSURE K/O 850 AND JUMPED AT 1350 PSI, LEVELED BACK DOWN TO 1182 PSI. |
| Event | 17 | Other | Other | 3/2/2020 | 12:57:08 | COM4 | 0.00 | 3.00 | 7.97 | 0.00 | CHECKED FLOATS TO THE PUMP, 1 BBL RETURNED. |

| | | | | | | | | | | | |
|-------|----|--------------------------------|--------------------------------|----------|----------|------|------|------|------|------|---|
| Event | 18 | End Job | End Job | 3/2/2020 | 12:57:14 | COM4 | 0.00 | 3.00 | 7.97 | 0.00 | STOPPED RECORDING DATA. |
| Event | 19 | Safety Meeting - Pre Rig-Down | Safety Meeting - Pre Rig-Down | 3/2/2020 | 13:00:00 | USER | | | | | DISCUSS HAZARDS AND WAYS TO MITIGATE THEM |
| Event | 20 | Depart Location Safety Meeting | Depart Location Safety Meeting | 3/2/2020 | 14:00:00 | USER | | | | | DISCUSS HAZARDS AND ROUTE |
| Event | 21 | Crew Leave Location | Crew Leave Location | 3/2/2020 | 14:30:00 | USER | | | | | THANK YOU FOR USING HALLIBURTON, JOSHUA WASHBURN AND CREW |

3.0 Attachments

3.1 CONFLUENCE SILVERTON 5-5-2L 906357316-Custom Results.png

