

HALLIBURTON

iCem[®] Service

VERDAD RESOURCES LLC-EBUS

Ft. Lupton District, COLORADO

KBL 1930-08H

Production Casing

Job Date: Saturday, July 31, 2021

Sincerely,

KYLE BATH

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 KBL 1930-08H 5.5" 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 0 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 #: 380688 | | Ship To #: 9032746 | | Quote #: | | Sales Order #: 0907296674 | | | | |
|---|------------|----------------------------------|----------|---|--------|----------------------------------|--------------|--------------------|------------------|------------------|
| Customer: VERDAD RESOURCES LLC-EBUS | | | | Customer Rep: Verdad Rep | | | | | | |
| Well Name: KBL | | Well #: 1930-08H | | API/UWI #: 05-123-50889-00 | | | | | | |
| Field: WATTENBERG | | City (SAP): KEENESBURG | | County/Parish: WELD | | State: COLORADO | | | | |
| Legal Description: NW SE-19-2N-63W-1806FSL-2066FEL | | | | | | | | | | |
| Contractor: PRECISION DRLG | | | | Rig/Platform Name/Num: PRECISION 464 | | | | | | |
| Job BOM: 7523 7523 | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | |
| Sales Person: HALAMERICA\HX41066 | | | | Srvc Supervisor: Kyle Bath | | | | | | |
| Job | | | | | | | | | | |
| | | | | | | | | | | |
| Job depth MD | | 14775ft | | Job Depth TVD | | | | | | |
| | | | | | | | | | | |
| 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 | 1823 | 0 | 1823 |
| Casing | | 5.5 | 4.892 | 17 | | | 0 | 14759 | 0 | 6660 |
| Open Hole Section | | | 8.5 | | | | 1834 | 14775 | 1834 | 6660 |
| | | | | | | | | | | |
| Tools and Accessories | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | |
| Float Shoe | 5.5 | 1 | | 14759 | | Top Plug | 5.5 | 1 | HES | |
| Float Collar | 5.5 | 1 | | 14712 | | Bottom Plug | 5.5 | 1 | HES | |
| | | | | | | Plug Container | 5.5 | 1 | HES | |
| | | | | | | Centralizers | 5.5 | 155 | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| Fluid Data | | | | | | | | | |
|---------------------|--------------|--------------------|---------------------|---------|---------------------------|--------------------------------|------------------------|-----------------|------------------------|
| Stage #: 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 | Spacer | TUNED PRIME SPACER | 100 | bbl | 11.5 | 3.71 | | | |
| | | | | | | | | | |
| 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 | Cap Cement | ELASTICEM™ SYSTEM | 300 | sack | 13.2 | 1.6 | | 4 | 7.65 |
| | | | | | | | | | |
| 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 |
| 3 | Lead Cement | ELASTICEM™ SYSTEM | 914 | sack | 13.2 | 1.6 | | 4 | 7.66 |
| | | | | | | | | | |
| 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 |
| 4 | Tail Cement | NeoCem™ | 858 | sack | 13.2 | 2.03 | | 4 | 9.71 |
| | | | | | | | | | |
| 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 |
| 5 | Displacement | MMCR Water | 40 | bbl | 8.34 | | | | |
| | | | | | | | | | |
| 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 |
| 6 | Displacement | Biocide Water | 301 | bbl | 8.34 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Cement Left In Pipe | | Amount | 47 ft | | Reason | | | Shoe Joint | |
| Mix Water: | | pH 7 | Mix Water Chloride: | | 0 ppm | | Mix Water Temperature: | | 70 °F |
| Cement Temperature: | | 70 °F | Plug Displaced by: | | 8.34 lb/gal | | Disp. Temperature: | | 70 °F |
| Plug Bumped? | | Yes | Bump Pressure: | | 2870 psi | | Floats Held? | | Yes |
| Cement Returns: | | 0 bbl | Returns Density: | | | | Returns Temperature: | | |
| Comment | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Seq. No. | Activity | Date | Time | Comb Pump Rate (bbl/min) | DH Density (ppg) | DS Pump Press (psi) | Pump Stg Tot (bbl) | Comments |
|----------|---------------------------------------|-----------|----------|--------------------------|------------------|---------------------|--------------------|---|
| 1 | Call Out | 7/31/2021 | 02:00:00 | | | | | CREW CALLED OUT, REQUESTED ON LOCATION 8:00 |
| 2 | Depart Yard Safety Meeting | 7/31/2021 | 06:00:00 | | | | | PRE CONVOY SAFETY MEETING WITH ALL HES EE |
| 3 | Crew Leave Yard | 7/31/2021 | 06:15:00 | | | | | CREW DEPART YARD FOR LOCATION |
| 4 | Arrive At Loc | 7/31/2021 | 07:25:00 | | | | | ARRIVE ON LOCATION, RECIEVED NUMBERS FROM CO REP, TD 14775, TP 14759, SJ 47, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1834, HOLE 8.5, MUD 9.6, TVD 6660, 155 CENTALIZERS, WATER TEST, TEMP 70, CHLORIDES 0, PH 7 |
| 5 | Assessment Of Location Safety Meeting | 7/31/2021 | 07:35:00 | | | | | SAFETY MEETING WITH ALL HES EE TO ASSESS ALL HAZARDS |
| 6 | Safety Meeting - Pre Rig-Up | 7/31/2021 | 07:50:00 | | | | | PRE RIG UP SAFETY MEETING WITH ALL HES EE |
| 7 | Safety Meeting - Pre Job | 7/31/2021 | 10:00:00 | 0.00 | 0.05 | 8.00 | 0.00 | PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP |
| 8 | Start Job | 7/31/2021 | 11:11:28 | 0.00 | 8.77 | -3.00 | 0.00 | START RECORDING DATA |
| 9 | Test Lines | 7/31/2021 | 11:12:57 | 0.00 | 8.42 | 18.00 | 1.20 | TEST LINES TO 4850 PSI |
| 10 | Pump Spacer 1 | 7/31/2021 | 11:22:13 | 2.80 | 8.41 | 57.00 | 0.00 | PUMP 100 BBLS TUNED PRIME SPACER 11.5 PPG 6.5 BPM 290 PSI |
| 11 | Drop Bottom Plug | 7/31/2021 | 11:38:48 | 0.00 | 17.48 | -6.00 | 98.90 | LAUNCH BOTTOM PLUG |

| | | | | | | | | |
|----|--------------------------------|-----------|----------|------|-------|---------|--------|---|
| 12 | Pump Cap Cement | 7/31/2021 | 11:38:57 | 0.00 | 17.29 | -6.00 | 98.90 | MIX AND PUMP 300 SKS 85.5 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.65 GAL/SK 7.5 BPM 240 PSI, CALCULATED TOCC SURFACE |
| 13 | Pump Lead Cement | 7/31/2021 | 11:50:34 | 7.60 | 13.12 | 215.00 | 0.10 | MIX AND PUMP 914 SKS 260.5 BBLS LEAD CEMENT 13.2 PPG, 1.6 FT3/SK, 7.66 GAL/SK 9 BPM 365 PSI, CALCULATED TOLC 927' |
| 14 | Pump Tail Cement | 7/31/2021 | 12:23:04 | 9.50 | 13.10 | 402.00 | 272.90 | MIX AND PUMP 858 SKS 310 BBLS TAIL CEMENT 13.2 PPG, 2.03 FT3/SK, 9.71 GAL/SK 9 BPM 500 PSI, CALCULATED TOTC 7156' |
| 15 | Shutdown | 7/31/2021 | 13:01:53 | 0.00 | 14.07 | 48.00 | 307.10 | SHUTDOWN, WASH PUMPS AND LINES |
| 16 | Drop Top Plug | 7/31/2021 | 13:09:43 | 0.00 | 8.00 | -22.00 | 324.90 | LAUNCH TOP PLUG |
| 17 | Pump Displacement | 7/31/2021 | 13:09:45 | 0.00 | 8.01 | -22.00 | 324.90 | PUMP 341 BBLS DISPLACEMENT WITH BIOCIDES, FIRST 40 BBLS WITH MMCR, 10 BPM, RECEIVED 70 BBLS TUNED PRIME SPACER TO SURFACE |
| 18 | Bump Plug | 7/31/2021 | 13:48:55 | 0.00 | 8.13 | 3366.00 | 343.50 | BUMPED PLUG AT 2870 PSI TOOK TO 3390 PSI |
| 19 | Other | 7/31/2021 | 13:54:33 | 0.00 | 8.13 | 3373.00 | 343.50 | CHECK FLOATS, FLOATS HELD TOOK 4 BBLS BACK |
| 20 | End Job | 7/31/2021 | 13:55:40 | 0.00 | 8.05 | -10.00 | 0.00 | STOP RECORDING DATA |
| 21 | Safety Meeting - Pre Rig-Down | 7/31/2021 | 14:00:00 | | | | | PRE RIG DOWN SAFETY MEETING WITH ALL HES EE |
| 22 | Depart Location Safety Meeting | 7/31/2021 | 15:00:00 | | | | | PRE DEPARTURE SAFETY MEETING WITH ALL HES EE |
| 23 | Crew Leave Location | 7/31/2021 | 15:30:00 | | | | | THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW |

3.0 Attachments

3.1 Job Chart

