

HALLIBURTON

iCem[®] Service

NICKEL ROAD OPERATING LLC

Ft. Lupton District, CO

Reeman 4X-HNC-04-06-65 Surface

Job Date: Monday, March 21, 2022

Sincerely,

Meghan Van Zyl

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 **Reeman 4X-HNC-04-06-65** 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 47 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

| | | | | | | | |
|--|--|---------------------------|--------------------------------|--|-------------------|----------------------------------|--|
| Sold To #: 382767 | | Ship To #: 9107734 | | Quote #: | | Sales Order #: 0907754175 | |
| Customer: NICKEL ROAD OPERATING LLC | | | | Customer Rep: Todd Stephens | | | |
| Well Name: REEMAN | | | Well #: 4X-HNC-04-06-65 | | API/UWI #: | | |
| Field: | | City (SAP): EATON | | County/Parish: Weld | | State: COLORADO | |
| Legal Description: | | | | | | | |
| Contractor: IKON DRLG | | | | Rig/Platform Name/Num: IKON 12 | | | |
| Job BOM: 7521 7521 | | | | | | | |
| Well Type: OIL | | | | | | | |
| Sales Person: HALAMERICA\HX41066 | | | | Srvc Supervisor: Michael Loughran | | | |

| Job | | | |
|-------------------------------|-------------|--|--------------------------|
| Formation Name | | | |
| Formation Depth (MD) | Top | | Bottom |
| Form Type | | | BHST |
| Job depth MD | 1744ft | | 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 | | 16 | 15.376 | 55 | | | 0 | 80 | | |
| Casing | | 9.625 | 8.921 | 36 | LTC | J-55 | 0 | 1744 | | |
| Open Hole Section | | | 13.5 | | | | 80 | 1744 | | |

| Tools and Accessories | | | | | | | | | |
|-----------------------|---------|-----|------|----------|--|----------------|---------|-----|------|
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make |
| Guide Shoe | 9.625 | | | 1744 | | Top Plug | 9.625 | 1 | HES |
| Float Shoe | 9.625 | | | | | Bottom Plug | 9.625 | 1 | HES |
| Float Collar | 9.625 | | | | | SSR plug set | 9.625 | | HES |
| Insert Float | 9.625 | | | | | Plug Container | 9.625 | 1 | 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 ft ³ /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |
| 1 | Fresh Water | Fresh Water | 10 | bbl | 8.33 | | | 5 | |
| 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 | SwiftCem | SBM SWIFTCEM CEMENT SYSTEM CEM | 650 | sack | 13.5 | 1.75 | | 8 | 9.25 |

| Fluid # | Stage Type | Fluid Name | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft ³ /sack | Mix Fluid Gal | Rate bbl/mi n | Total Mix Fluid Gal | |
|-----------------------|-----------------------|--------------------|----------------------------|---------|---------------------------|--------------------------------|------------------------|---------------------|------------------------|----------|
| 3 | Displacement Fluid | Displacement Fluid | 131.75 | bbl | 8.34 | | | | | |
| | | | | | | | | | | |
| Cement Left In Pipe | | Amount | 39.64 ft | | Reason | | | Shoe Joint | | |
| Mix Water: | | pH 7 | Mix Water Chloride: | | Less 200 ppm | | Mix Water Temperature: | | | 69°F |
| Cement Temperature: | | | Plug Displaced by: | | 8.33 lb/gal | | Disp. Temperature: | | | |
| Plug Bumped? | | Yes | Bump Pressure: | | 1100 psi | | Floats Held? | | | Yes |
| Cement Returns: | | 47 bbl | Returns Density: | | 13.5 lb/gal | | Returns Temperature: | | | ## °F °C |
| Comment TOC=0' | | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Seq No. | Activity | Graph Label | Date | Time | Dwnhole Density (ppg) | Cmb Pump Rate (bbl/min) | Pump B Pressure (psi) | Cmb Stg Total (bbl) | Comments |
|---------|---------------------------|---------------------------|-----------|----------|--------------------------|----------------------------|--------------------------|------------------------|---|
| 1 | Call Out | Call Out | 3/21/2022 | 13:00:00 | | | | | CREW STAGED ON LOCATION. CALLED OUT AT 1300 HRS. REQUESTED ON LOCATION 1500 HRS. |
| 2 | Pre-Convoy Safety Meeting | Pre-Convoy Safety Meeting | 3/21/2022 | 13:05:00 | | | | | CREW ON LOC. |
| 3 | Crew Leave Yard | Crew Leave Yard | 3/21/2022 | 13:10:00 | | | | | CREW ON LOC. |
| 4 | Arrive At Loc | Arrive At Loc | 3/21/2022 | 13:15:00 | | | | | MEET WITH CUSTOMER. 1744' J-55 36# 9.625" CASING. TD 1744' F/C 1704.36', 13.5"HOLE, WATER 69 DEGREES, CHLORIDES LESS THAN 200 PPM, PH 7 |
| 5 | Pre-Rig Up Safety Meeting | Pre-Rig Up Safety Meeting | 3/21/2022 | 13:20:00 | | | | | HAZARD HUNT, JSA SAFE RIG UP |
| 6 | Rig-Up Equipment | Rig-Up Equipment | 3/21/2022 | 13:25:00 | | | | | RIG UP ALL HES EQUIPMENT AND IRON TO BUFFER ZONE |
| 7 | Pre-Job Safety Meeting | Pre-Job Safety Meeting | 3/21/2022 | 18:00:00 | 8.30 | 0.00 | -0.70 | 15.60 | DISCUSS HAZARDS OF HES EQUIPMENT AND PRESSURE |
| 8 | Start Job | Start Job | 3/21/2022 | 18:14:52 | 8.36 | 0.00 | -3.25 | 0.00 | BEGIN RECORDING DATA. RIG CIRCULATED 1 BOTTOMS UP |
| 9 | Drop Bottom Plug | Drop Bottom Plug | 3/21/2022 | 18:14:58 | 8.37 | 0.00 | -3.75 | 0.00 | SCEPTRE BOTTOM PLUG VERIFIED BY TODD |
| 10 | Test Lines | Test Lines | 3/21/2022 | 18:16:15 | 8.53 | 0.00 | 7.20 | 2.39 | TEST HES LINES 3500 PSI |

| | | | | | | | | | |
|----|-----------------------------|-----------------------------|-----------|----------|-------|------|---------|--------|--|
| 11 | Pump Spacer 1 | Pump Spacer 1 | 3/21/2022 | 18:28:02 | 8.03 | 0.00 | 0.08 | 0.00 | 10 BBLS FRESH WATER SPACER W/.5 LBS. GREEN DYE |
| 12 | Pump Cement | Pump Cement | 3/21/2022 | 18:31:19 | 8.43 | 3.54 | 51.12 | 0.06 | 650 SACKS SBM SWIFT CEM. 202.6 BBLS. 13.5 PPG, 1.75 YIELD, 9.25 GAL/SACK. 47 BBLS. CEMENT TO SURFACE. TOC=0' |
| 13 | Shutdown | Shutdown | 3/21/2022 | 18:59:54 | 10.51 | 0.00 | 75.97 | 230.34 | SHUTDOWN |
| 14 | Drop Top Plug | Drop Top Plug | 3/21/2022 | 19:05:40 | -1.51 | 0.00 | 1.21 | 0.00 | SCEPTRE TOP PLUG VERIFIED BY TODD |
| 15 | Pump Displacement | Pump Displacement | 3/21/2022 | 19:05:43 | -1.51 | 0.00 | 1.44 | 0.00 | 131.8 BBLS. FRESH WATER DISPLACEMENT |
| 16 | Shutdown | Shutdown | 3/21/2022 | 19:20:15 | 8.42 | 0.00 | 588.53 | 120.80 | SHUTDOWN TO STAGE CEMENT |
| 17 | Resume | Resume | 3/21/2022 | 19:25:40 | 8.37 | 0.00 | 437.06 | 120.80 | RESUME PUMPING AT 2 BBL/MIN |
| 18 | Bump Plug | Bump Plug | 3/21/2022 | 19:30:23 | 8.47 | 0.00 | 1199.59 | 129.87 | FCP 2 BPM/645 PSI. BUMP 1100 PSI |
| 19 | Check Floats | Check Floats | 3/21/2022 | 19:31:02 | 8.46 | 0.00 | 1186.81 | 129.87 | FLOATS HOLD/.5 BBL. BACK |
| 20 | End Job | End Job | 3/21/2022 | 19:31:40 | 8.35 | 0.00 | 20.27 | 0.00 | STOP RECORDING DATA. PUMPED 15 BBL FOR RIG CELLAR PUMP CLEANOUT |
| 21 | Pre-Rig Down Safety Meeting | Pre-Rig Down Safety Meeting | 3/21/2022 | 19:45:00 | | | | | JSA SAFE RIG-DOWN |
| 22 | Rig-Down Equipment | Rig-Down Equipment | 3/21/2022 | 19:50:00 | | | | | RIG DOWN HES EQUIPMENT |
| 23 | Rig-Down Completed | Rig-Down Completed | 3/21/2022 | 20:30:00 | | | | | RIG-DOWN COMPLETED |
| 24 | Crew Leave Location | Crew Leave Location | 3/21/2022 | 21:00:00 | | | | | CREW STAGED ON LOCATION FOR NEXT WELL. |

3.0 Attachments

3.1 Real Time iCem Job Chart

