

The Road to Excellence Starts with Safety

| Sold To #: 345242 | | Ship To #: 9029981 | | Quote #: | | Sales Order #: 0906913026 | | | | |
|---|------------|---------------------------|------------------------|----------------------------|---|-----------------------------------|------------------------|--------------------|------------------|------------------|
| Customer: NOBLE ENERGY INC-EBUS | | | | | Customer Rep: Charles Colver | | | | | |
| Well Name: REVEILLE | | | Well #: A34-714 | | | API/UWI #: 05-123-50800-00 | | | | |
| Field: WATTENBERG | | City (SAP): GILL | | County/Parish: WELD | | | State: COLORADO | | | |
| Legal Description: SW SW-35-6N-64W-260FSL-338FWL | | | | | | | | | | |
| Contractor: H & P DRLG | | | | | Rig/Platform Name/Num: H & P 517 | | | | | |
| Job BOM: 7523 | | | | | | | | | | |
| Well Type: HORIZONTAL OIL | | | | | | | | | | |
| Sales Person: HALAMERICA\HX41066 | | | | | Srvc Supervisor: Kyle Bath | | | | | |
| Job | | | | | | | | | | |
| | | | | | | | | | | |
| Job depth MD | | 16988ft | | Job Depth TVD | | 6714ft | | | | |
| | | | | | | | | | | |
| 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 | 0 | 9.625 | 8.921 | 36 | | | 0 | 1934 | 0 | 1934 |
| Casing | 0 | 5.5 | 4.892 | 17 | | | 0 | 16988 | 0 | 6714 |
| Open Hole Section | | | 8.5 | | | | 1934 | 17015 | 1935 | 6714 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Tools and Accessories | | | | | | | | | | |
| Type | Size in | Qty | Make | Depth ft | | Type | Size in | Qty | Make | |
| Float Shoe | 5.5 | 1 | HES | 16988 | | Top Plug | 5.5 | 1 | HES | |
| Float Collar | 5.5 | 1 | HES | 16938 | | Bottom Plug | 5.5 | 2 | HES | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| 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 | Tuned Prime | TUNED PRIME SPACER | 0 | bbl | 11.5 | 3.7 | | | 4254 |
| | | | | | | | | | |
| 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 | ElastiCem | ELASTICEM™ SYSTEM | 140 | sack | 13.2 | 1.6 | 7.63 | 8 | 1068 |
| | | | | | | | | | |
| 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 | ElastiCem w/ SCBL | ELASTICEM™ SYSTEM | 705 | sack | 13.2 | 1.67 | 8.03 | 8 | 5661 |
| | | | | | | | | | |
| 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 | NeoCem | NEOCEM™ SYSTEM | 1132 | sack | 13.2 | 2.04 | 9.79 | 8 | 11082 |
| | | | | | | | | | |
| 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 | Treated Water Displacement | 0 | bbl | 8.33 | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Cement Left In Pipe | | Amount | 50ft | | Reason | | | Shoe Joint | |
| Mix Water: | | pH 7 | Mix Water Chloride: | | 0 ppm | | Mix Water Temperature: | | 65 °F |
| Plug Bumped? | | Yes | Plug Displaced by: | | 8.33 lb/gal Treated Water | | Floats Held? | | Yes |
| Cement Returns: | | 0 bbl | Bump Pressure: | | 2451 psi | | | | |
| Comment: RECIEVED 70 BBLS TUNED PRIME SPACER TO SURFACE. CALCULATED TOCAP 959, CALCULATED TOLC 1792, CALCULATED TOTC 6907. | | | | | | | | | |

2.0 Real-Time Job Summary

2.1 Job Event Log

| Type | Seq No. | Activity | Date | Time | Comb Pump Rate (bbl/min) | DH Density (ppg) | DS Pump Press (psi) | Pump Stg Tot (bbl) | Comments |
|-------|------------|---------------------------------------|-----------|----------|--------------------------------|------------------------|---------------------------|--------------------------|--|
| Event | 1 | Call Out | 1/13/2021 | 23:00:00 | | | | | CREW CALLED OUT, REQUESTED ON LOCATION 0500 |
| Event | 2 | Depart Yard Safety Meeting | 1/14/2021 | 02:45:00 | | | | | DEPART LOCATION SAFETY MEETING WITH ALL HES EE |
| Event | 3 | Crew Leave Yard | 1/14/2021 | 03:00:00 | | | | | DEPART YARD |
| Event | 4 | Arrive At Loc | 1/14/2021 | 04:00:00 | | | | | ARRIVE ON LOCATION, RECIEVE NUMBERS FROM CO REP TD 17015, TP 16988.1, SJ 49.57, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1934 , HOLE 8.5, MUD 9.8, TVD 6714, WATER TEST, TEMP 65, PH 7, CHLORIDES 0 |
| Event | 5 | Assessment Of Location Safety Meeting | 1/14/2021 | 04:15:00 | | | | | HAZARD ASSESMENT SAFETY MEETING WITH ALL HES EE |
| Event | 6 | Safety Meeting - Pre Rig-Up | 1/14/2021 | 04:30:00 | | | | | PRE RIG UP SAFETY MEETING AND COMMENCE RIG UP |
| Event | 7 | Safety Meeting - Pre Job | 1/14/2021 | 08:00:00 | 0.00 | 0.00 | -6.00 | 0.00 | PRE JOB SAFETY MEETING WITH RIG CREW, CO REP AND HES EE |
| Event | 8 | Start Job | 1/14/2021 | 08:46:15 | 0.00 | 8.44 | -26.00 | 20.20 | START RECORDING DATA |
| Event | 9 | Drop Bottom Plug | 1/14/2021 | 08:46:44 | 0.00 | 0.49 | -27.00 | 0.00 | LAUNCH BOTTOM PLUG, CO REP WITNESSED |
| Event | 10 | Test Lines | 1/14/2021 | 08:49:14 | 0.00 | 8.51 | 151.00 | 3.40 | TEST LINES TO 4526 PSI |

| | | | | | | | | | |
|-------|----|-------------------|-----------|----------|------|-------|---------|--------|---|
| Event | 11 | Pump Spacer 1 | 1/14/2021 | 08:55:58 | 0.00 | 8.47 | 15.00 | 0.00 | PUMP 120 BBLS TUNED PRIME SPACER 11.5 PPG 5 BPM 600 PSI |
| Event | 12 | Drop Bottom Plug | 1/14/2021 | 09:21:00 | 0.00 | 11.81 | 29.00 | 127.40 | LAUNCH BOTTOM PLUG, CO REP WITNESSED |
| Event | 13 | Pump Cement | 1/14/2021 | 09:23:29 | 0.00 | 11.80 | 5.00 | 127.40 | MIX AND PUMP 140 SKS 39.9 BBLS CAP CEMENT 13.2 PPG, 1.6 FT3/SK, 7.63 GAL/SK 6 BPM 450 PSI, CALCULATED TOCAP 959 |
| Event | 14 | Pump Lead Cement | 1/14/2021 | 09:24:05 | 1.70 | 11.79 | 11.00 | 0.00 | MIX AND PUMP 705 SKS 209.7 BBLS LEAD CEMENT 13.2 PPG, 1.67 FT3/SK, 8.03 GAL/SK 8 BPM 650 PSI, CALCULATED TOLC 1792 |
| Event | 15 | Check Weight | 1/14/2021 | 09:50:39 | 8.50 | 13.22 | 684.00 | 149.30 | |
| Event | 16 | Check Weight | 1/14/2021 | 09:54:56 | 8.50 | 13.25 | 668.00 | 185.50 | |
| Event | 17 | Pump Tail Cement | 1/14/2021 | 10:00:24 | 8.50 | 13.19 | 664.00 | 231.90 | MIX AND PUMP 1132 SKS 411.3 BBLS TAIL CEMENT 13.2 PPG, 2.04 FT3/SK, 9.79 GAL/SK 8.5 BPM 1000 PSI, CALCULATED TOTC 6907 |
| Event | 18 | Check Weight | 1/14/2021 | 10:04:48 | 8.50 | 13.20 | 897.00 | 37.10 | |
| Event | 19 | Check Weight | 1/14/2021 | 10:24:33 | 8.50 | 13.23 | 932.00 | 204.50 | |
| Event | 20 | Shutdown | 1/14/2021 | 10:52:10 | 6.30 | 13.23 | 550.00 | 430.70 | SHUTDOWN, WASH PUMPS AND LINES TO PIT |
| Event | 21 | Shutdown | 1/14/2021 | 10:54:12 | 0.00 | 13.20 | 4.00 | 431.80 | |
| Event | 22 | Drop Top Plug | 1/14/2021 | 11:00:31 | 0.00 | 8.32 | -41.00 | 446.70 | LAUNCH TOP PLUG, CO REP WITNESSED |
| Event | 23 | Pump Displacement | 1/14/2021 | 11:00:35 | 0.00 | 8.32 | -41.00 | 446.70 | PUMP 393 BBLS PRODUCED WATER DISPLACEMENT 10 BPM, 2800 PSI, FIRST 20 BBLS WITH MMCR, RECIEVED 70 BBLS TUNED SPACER TO SURFACE |
| Event | 24 | Bump Plug | 1/14/2021 | 11:51:35 | 0.00 | -0.14 | 2878.00 | 398.80 | BUMP PLUG AT 2451 PSI TOOK TO 2990 PSI |
| Event | 25 | Check Floats | 1/14/2021 | 11:56:49 | 0.00 | -0.14 | 2321.00 | 398.80 | CHECK FLOATS, FLOATS HELD TOOK 5.5 BBLS BACK |
| Event | 26 | End Job | 1/14/2021 | 11:59:00 | 0.00 | -0.14 | -49.00 | 398.80 | STOP RECORDING DATA |

| | | | | | |
|-------|----|-----------------------------------|-----------|----------|---|
| Event | 27 | Safety Meeting - Pre Rig-Down | 1/14/2021 | 12:05:00 | PRE RIG DOWN SAFETY MEETING WITH ALL HES EE |
| Event | 28 | Depart Location Safety Meeting | 1/14/2021 | 13:00:00 | PRE DEPARTURE SAFETY MEETING WITH ALL HES EE |
| Event | 29 | Crew Leave Location | 1/14/2021 | 13:15:00 | THANK YOU FOR USING HALLIBURTON, KYLE BATH AND CREW |

3.0 Attachments

3.1 Job Chart

