

*The Road to Excellence Starts with Safety*

|  |                        |                                  |                           |
|--|------------------------|----------------------------------|---------------------------|
| Sold To #: 345242                                  | Ship To #: 3908446     | Quote #:                         | Sales Order #: 0906208548 |
| Customer: NOBLE ENERGY INC-EBUS                    |                        | Customer Rep: JIM TURNER         |                           |
| Well Name: GUTTERSEN                               | Well #: Y05-771        | API/UWI #: 05-123-48041-00       |                           |
| Field: WATTENBERG                                  | City (SAP): KEENESBURG | County/Parish: WELD              | State: COLORADO           |
| Legal Description: SW NW-29-3N-64W-2206FNL-1010FWL |                        |                                  |                           |
| Contractor: H & P DRLG                             |                        | Rig/Platform Name/Num: H & P 321 |                           |
| Job BOM: 7523 7523                                 |                        |                                  |                           |
| Well Type: HORIZONTAL OIL                          |                        |                                  |                           |
| Sales Person: HALAMERICA\HB31357                   |                        | Srvc Supervisor: Kyle Bath       |                           |

**Job**

|                               |             |  |                          |
|-------------------------------|-------------|--|--------------------------|
| <b>Formation Name</b>         |             |  |                          |
| <b>Formation Depth (MD)</b>   | <b>Top</b>  |  | <b>Bottom</b>            |
| <b>Form Type</b>              |             |  | <b>BHST</b>              |
| <b>Job depth MD</b>           | 19900ft     |  | <b>Job Depth TVD</b>     |
| <b>Water Depth</b>            |             |  | <b>Wk Ht Above Floor</b> |
| <b>Perforation Depth (MD)</b> | <b>From</b> |  | <b>To</b>                |

**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         | 1932         | 0          | 1932          |
| Casing            |            | 5.5     | 4.892 | 17            |        |       | 0         | 19900        | 0          | 6928          |
| Open Hole Section |            |         | 8.5   |               |        |       | 1932      | 19900        | 1932       | 6928          |

**Tools and Accessories**

| Type         | Size in | Qty | Make | Depth ft | Type           | Size in | Qty | Make |
|--------------|---------|-----|------|----------|----------------|---------|-----|------|
| Guide Shoe   | 5.5     |     |      | 19900    | Top Plug       | 5.5     |     | HES  |
| Float Shoe   | 5.5     |     |      |          | Bottom Plug    | 5.5     |     | HES  |
| Float Collar | 5.5     |     |      |          | SSR plug set   | 5.5     |     | HES  |
| Insert Float | 5.5     |     |      |          | Plug Container | 5.5     |     | HES  |
| Stage Tool   | 5.5     |     |      |          | Centralizers   | 5.5     |     | HES  |

**Fluid Data**

| <b>Stage/Plug #: 1</b> |                    |                                      |     |         |                        |                             |               |              |                     |  |
|------------------------|--------------------|--------------------------------------|-----|---------|------------------------|-----------------------------|---------------|--------------|---------------------|--|
| Fluid #                | Stage Type         | Fluid Name                           | Qty | Qty UoM | Mixing Density lbm/gal | Yield ft <sup>3</sup> /sack | Mix Fluid Gal | Rate bbl/min | Total Mix Fluid Gal |  |
| 1                      | Tuned Prime Spacer | SBM FDP-C1337-18 CEMENT SPACER SYS   | 120 | bbl     | 11.5                   | 3.87                        |               |              |                     |  |
| 1 lbm/bbl              |                    | <b>FE-2, 2000 LB BAG - (1005549)</b> |     |         |                        |                             |               |              |                     |  |
| 145.09 lbm/bbl         |                    | <b>BARITE, BULK (100003681)</b>      |     |         |                        |                             |               |              |                     |  |

|              |  |
|--------------|--|
| 3.50 lbm/bbl | <b>SEM-94P, 35 LB SACK - (1023987)</b>     |
| 3.50 lbm/bbl | <b>SEM-93P, 35 LB SACK - (1023977)</b>     |
| 0.33 gal/bbl | <b>D-AIR 3000L, 5 GAL PAIL (101007444)</b> |

| 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        | ElastiCem  | ELASTICEM (TM) SYSTEM                   | 140 | sack    | 13.21                  | 1.66           |               | 6            | 8.39                |
| 8.39 Gal |            | <b>FRESH WATER</b>                      |     |         |                        |                |               |              |                     |
| 0.70 %   |            | <b>SCR-100, 1200 LB BAG - (1126328)</b> |     |         |                        |                |               |              |                     |

| 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        | ElastiCem w/ SCBL | ELASTICEM (TM) SYSTEM                   | 503 | sack    | 13.2                   | 1.67           |               | 6            | 8.04                |
| 8.04 Gal |                   | <b>FRESH WATER</b>                      |     |         |                        |                |               |              |                     |
| 0.30 %   |                   | <b>SCR-100, 1200 LB BAG - (1126328)</b> |     |         |                        |                |               |              |                     |

| 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        | NeoCem NT1 | NeoCem TM                               | 1441 | sack    | 13.2                   | 2.04           |               | 6            | 9.79                |
| 0.10 %   |            | <b>FE-2, 2000 LB BAG - (1005549)</b>    |      |         |                        |                |               |              |                     |
| 9.79 Gal |            | <b>FRESH WATER</b>                      |      |         |                        |                |               |              |                     |
| 0.10 %   |            | <b>SCR-100, 1200 LB BAG - (1126328)</b> |      |         |                        |                |               |              |                     |

| 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 |
|--------------|-------------------|---|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 5            | MMCR Displacement | MMCR Displacement   | 20  | bbl     | 8.33                   |                |               |              |                     |
| 0.50 gal/bbl |                   | <b>MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)</b> |     |         |                        |                |               |              |                     |

| 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 |
|---------|--------------|--------------|-----|---------|------------------------|----------------|---------------|--------------|---------------------|
| 6       | Displacement | Displacement | 440 | bbl     | 8.33                   |                |               |              |                     |

|                            |               |       |               |                   |
|----------------------------|---------------|-------|---------------|-------------------|
| <b>Cement Left In Pipe</b> | <b>Amount</b> | 42 ft | <b>Reason</b> | <b>Shoe Joint</b> |
|----------------------------|---------------|-------|---------------|-------------------|

|                     |           |                     |                      |                        |          |
|---------------------|-----------|---------------------|----------------------|------------------------|----------|
| 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 |
| <b>Comment</b>      |           |                     |                      |                        |          |

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

| Type  | Seq. No. | Activity                               | Date     | Time     | Comments   |
|-------|----------|--|----------|----------|--|
| Event | 1        | Call Out                               | 1/2/2020 | 16:30:00 | CREW CALLED OUT, REQUESTED ON LOCATION 22:30   |
| Event | 2        | Depart Yard Safety Meeting             | 1/2/2020 | 20:00:00 | DISCUSS ROUTE AND HAZARDS  |
| Event | 3        | Crew Leave Yard                        | 1/2/2020 | 20:25:00 | CREW DEPART YARD   |
| Event | 4        | Arrive at Location from Service Center | 1/2/2020 | 21:00:00 | ARRIVE ON LOCATION, RIG RUNNING CASING UPON HES ARRIVAL, RECIEVED NUMBERS FROM CO REP, TD 19900, TP 19880.9, SJ 47.3, CSG 5.5 17#, PREV CSG 9 5/8 36# @ 1932.5, HOLE 8.5 MUD 9.7 |
| Event | 5        | Assessment Of Location Safety Meeting  | 1/2/2020 | 21:15:00 | DISCUSS LOCATION HAZARDS AND HOW TO MITIGATE THEM, WATER TEST TEMP 65, CHLORIDES 0, PH 7   |
| Event | 6        | Safety Meeting - Pre Rig-Up            | 1/2/2020 | 21:30:00 | DISCUSS HAZARDS AND WAYS TO MITIGATE THEM  |
| Event | 7        | Safety Meeting - Pre Job               | 1/2/2020 | 23:00:00 | PRE JOB SAFETY MEETING WITH RIG CREW AND CO REP  |
| Event | 8        | Start Job                              | 1/3/2020 | 00:47:51 | STARTED RECORDING DATA.  |
| Event | 9        | Test Lines                             | 1/3/2020 | 00:54:31 | TEST LINES TO 6000, K/O 6300 PSI   |

|       |    |                  |          |          |  |
|-------|----|------------------|----------|----------|--|
| Event | 10 | Drop Bottom Plug | 1/3/2020 | 01:03:07 | BOTTOM PLUG DROPPED , VERIFIED BY CO MAN.  |
| Event | 11 | Pump Spacer 1    | 1/3/2020 | 01:03:12 | PUMPED 174 SACKS/ 120 BBLS OF SPACER AT 11.5 PPG, 3.87 YIELD, AND 24.5 GAL/SK. PUMPED AT A RATE OF 6 BPM WITH A PSI OF 360.    |
| Event | 12 | Check Weight     | 1/3/2020 | 01:06:19 | VERIFIED WEIGHT WITH PRESSURIZED SCALES.   |
| Event | 13 | Shutdown         | 1/3/2020 | 01:28:47 | SHUT DOWN TO DROP 2ND BOTTOM PLUG.   |
| Event | 14 | Drop Bottom Plug | 1/3/2020 | 01:28:53 | BOTTOM PLUG DROPPED , VERIFIED BY CO MAN.  |
| Event | 15 | Pump Cap Cement  | 1/3/2020 | 01:29:20 | PUMPED 140 SACKS / 41.39 BBLS CAP CEMENT 13.21 PPG, 1.66 YIELD, 8.39 GAL/SK. PUMPED AT 8 BPM 640 PSI. TOP OF CAP-2393'         |
| Event | 16 | Check Weight     | 1/3/2020 | 01:33:07 | VERIFIED WEIGHT WITH PRESSURIZED SCALES.   |
| Event | 17 | Pump Lead Cement | 1/3/2020 | 01:36:47 | PUMPED 503 SACKS / 149.61 BBLS LEAD CEMENT AT 13.2 PPG, 1.67 YIELD, 8.04 GAL/SK. PUMPED AT 8 BPM 650 PSI. TOP OF LEAD 2- 3408' |
| Event | 18 | Check Weight     | 1/3/2020 | 01:49:44 | VERIFIED WEIGHT WITH PRESSURIZED SCALES.   |
| Event | 19 | Pump Tail Cement | 1/3/2020 | 01:56:25 | PUMPED 1441 SACKS / 523.55 BBLS TAIL CEMENT AT 13.2 PPG , 2.04 YIELD, 9.79 GAL/SK. PUMPED AT 8 BPM 830 PSI. TOP OF TAIL- 7075' |

|       |    |                                |          |          |  |
|-------|----|--------------------------------|----------|----------|--|
| Event | 20 | Shutdown                       | 1/3/2020 | 02:07:59 |  |
| Event | 21 | Check Weight                   | 1/3/2020 | 02:17:16 | VERIFIED WEIGHT WITH PRESSURIZED SCALES.   |
| Event | 22 | Check Weight                   | 1/3/2020 | 02:43:38 | VERIFIED WEIGHT WITH PRESSURIZED SCALES.   |
| Event | 23 | Shutdown                       | 1/3/2020 | 03:05:06 | STOPPED RECORDING DATA.  |
| Event | 24 | Drop Top Plug                  | 1/3/2020 | 03:15:30 | DROPPED TOP PLUG, VERIFIED BY CO MAN.  |
| Event | 25 | Pump Displacement              | 1/3/2020 | 03:15:35 | PUMPED 460 BBLs OF FRESH WATER DISPLACEMENT. 10 GALLONS OF MMCR IN THE FIRST 20 BBLs, AND 6 #s OF BE-3, 10 BPM 2700 PSI, RECEIVED TRACES OF TUNED PRIME TO SURFACE |
| Event | 26 | Bump Plug                      | 1/3/2020 | 04:09:45 | BUMP AT 2200 PSI TOOK TO 2650 PSI  |
| Event | 27 | Other                          | 1/3/2020 | 04:15:39 | CHECK FLOATS, FLOATS HELD TOOK 5 BBLs BACK   |
| Event | 28 | End Job                        | 1/3/2020 | 04:17:18 |  |
| Event | 29 | Safety Meeting - Pre Rig-Down  | 1/3/2020 | 04:21:00 | DISCUSS HAZARDS AND WAYS TO MITIGATE THEM  |
| Event | 30 | Depart Location Safety Meeting | 1/3/2020 | 05:45:00 | DISCUSS HAZARDS AND ROUTE  |
| Event | 31 | Crew Leave Location            | 1/3/2020 | 06:15:00 | THANK YOU FOR USING HALLIBURTON, KYLE BATH/ JOSHUA WASHBURN AND CREW   |

3.0 Attachments

3.1 Job Chart

