

# Noble Energy Inc.- Weld County, CO (Grid North)

Well Name: **Moser H27-79HN**

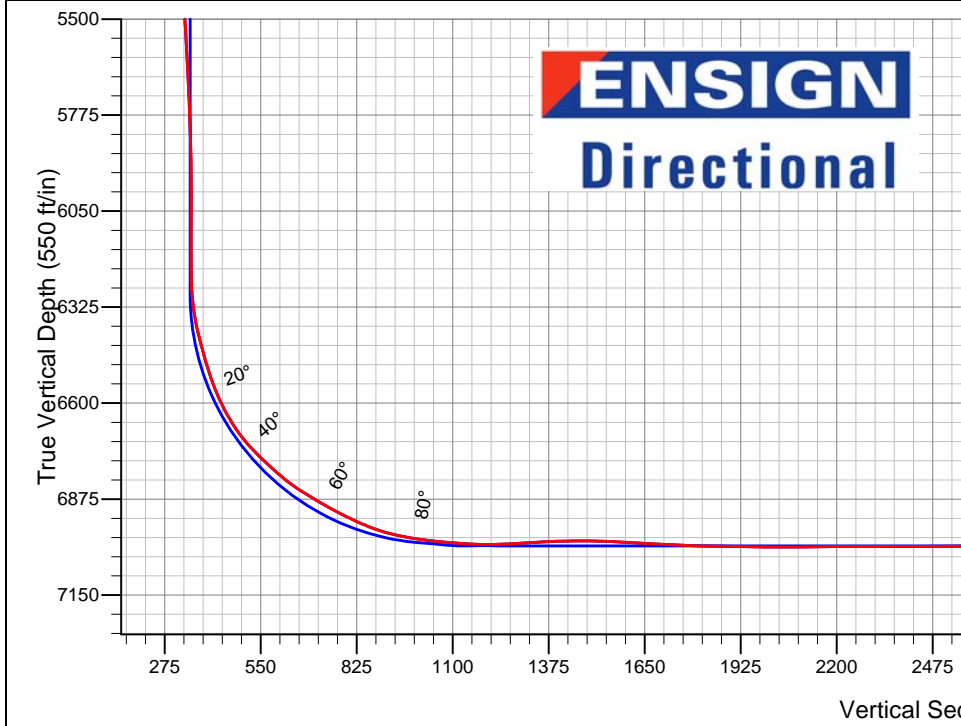
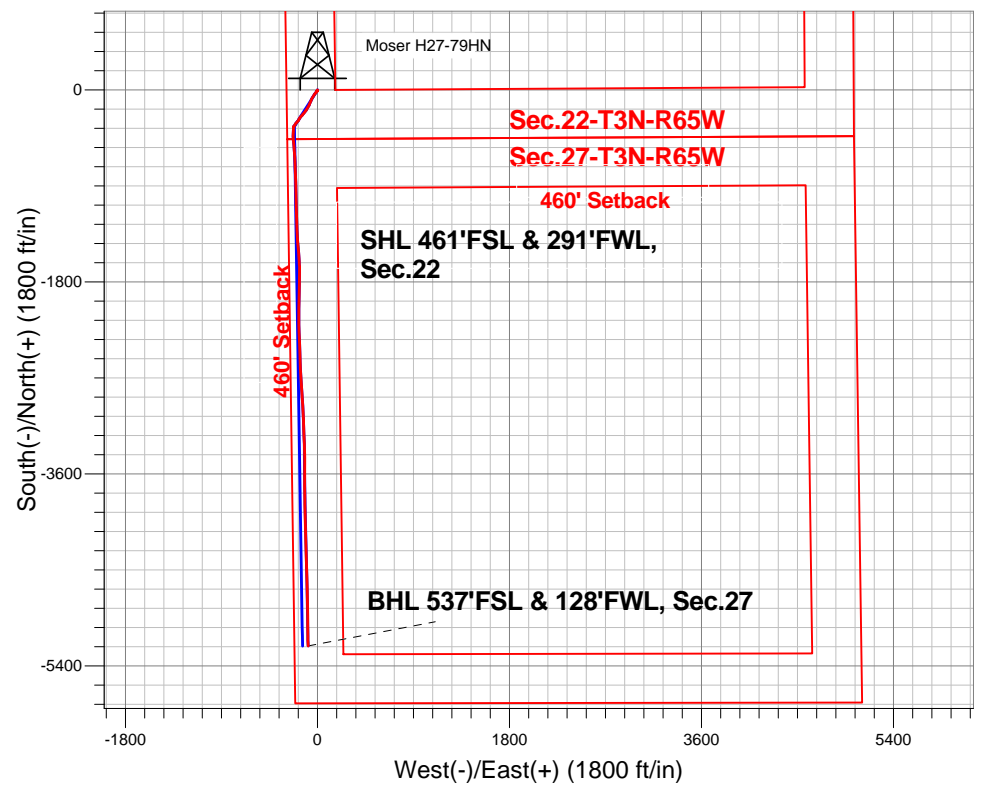
Surface Location: Moser H27-79HN Pad Sec.22-T3N-R65W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4813.0

| +N/-S | +E/-W | Northing   | Easting    | Latitude  | Longitude   | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0   | 0.0   | 1318621.57 | 3235109.85 | 40.204950 | -104.658240 |      |

Ensign 131 RKB - 13' WELL @ 4826.0ft (Ensign 131 RKB - 13')

## FINAL SURVEY

Projected Bottom Hole Location  
 11568'MD 7001'TVD 5213'S & 88'W of SHL  
 92.70 degree Incl @ 178.86 degree AZM

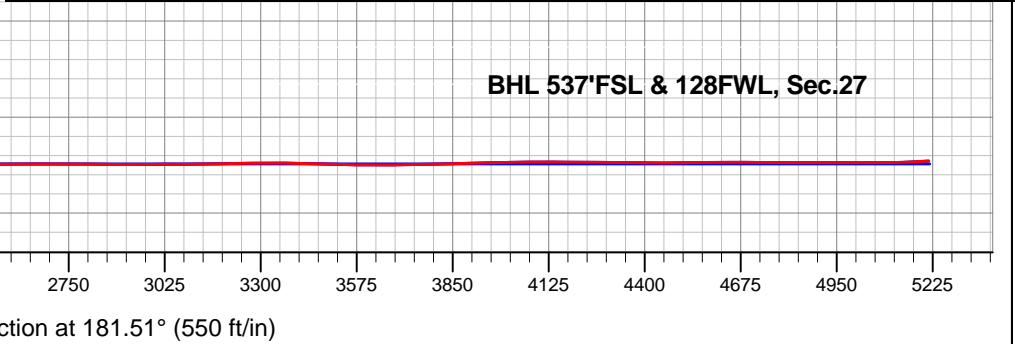


Moser H27-79HN Pad Sec.22-T3N-R65W  
 Moser H27-79HN  
 Wellbore #1  
 10:42, August 07 2013

**ANNOTATIONS**  
 No annotation data is available.

**LEGEND**

- Moser H27-79HN, Wellbore #1, Plan A - Rev 1 V0
- Wellbore #1
- Survey #1





# **Noble Energy Inc.- Weld County, CO (Grid North)**

**SEC.22-T3N-R65W**

**Moser H27-79HN Pad Sec.22-T3N-R65W**

**Moser H27-79HN**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**07 August, 2013**

|                  |   |                                     |  |
|------------------|---|-------------------------------------|--|
| <b>Company:</b>  | Noble Energy Inc.- Weld County, CO (Grid North) | <b>Local Co-ordinate Reference:</b> | Well Moser H27-79HN                    |
| <b>Project:</b>  | SEC.22-T3N-R65W                                 | <b>TVD Reference:</b>               | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Site:</b>     | Moser H27-79HN Pad Sec.22-T3N-R65W              | <b>MD Reference:</b>                | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Well:</b>     | Moser H27-79HN                                  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                                     | <b>Database:</b>                    | Landmark                               |

|                    |                                  |                      |                             |
|--------------------|----------------------------------|----------------------|-----------------------------|
| <b>Project</b>     | SEC.22-T3N-R65W, Weld County, CO |                      |                             |
| <b>Map System:</b> | US State Plane 1983              | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983        |                      | Using Well Reference Point  |
| <b>Map Zone:</b>   | Colorado Northern Zone           |                      | Using geodetic scale factor |

|                              |                                    |                     |                 |                          |             |
|------------------------------|------------------------------------|---------------------|-----------------|--------------------------|-------------|
| <b>Site</b>                  | Moser H27-79HN Pad Sec.22-T3N-R65W |                     |                 |                          |             |
| <b>Site Position:</b>        |                                    | <b>Northing:</b>    | 1,318,621.58 ft | <b>Latitude:</b>         | 40.204950   |
| <b>From:</b>                 | Lat/Long                           | <b>Easting:</b>     | 3,235,109.85 ft | <b>Longitude:</b>        | -104.658240 |
| <b>Position Uncertainty:</b> | 0.0 ft                             | <b>Slot Radius:</b> | "               | <b>Grid Convergence:</b> | 0.54 °      |

|                             |                |        |                            |                 |                      |             |
|-----------------------------|----------------|--------|----------------------------|-----------------|----------------------|-------------|
| <b>Well</b>                 | Moser H27-79HN |        |                            |                 |                      |             |
| <b>Well Position</b>        | <b>+N/-S</b>   | 0.0 ft | <b>Northing:</b>           | 1,318,621.57 ft | <b>Latitude:</b>     | 40.204950   |
|                             | <b>+E/-W</b>   | 0.0 ft | <b>Easting:</b>            | 3,235,109.85 ft | <b>Longitude:</b>    | -104.658240 |
| <b>Position Uncertainty</b> |                | 0.0 ft | <b>Wellhead Elevation:</b> | ft              | <b>Ground Level:</b> | 4,813.0 ft  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 7/19/2013          | 8.51                   | 66.84                | 52,820                     |

|                          |             |                              |                   |                      |                      |
|--------------------------|-------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Wellbore #1 |                              |                   |                      |                      |
| <b>Audit Notes:</b>      |             |                              |                   |                      |                      |
| <b>Version:</b>          | 1.0         | <b>Phase:</b>                | ACTUAL            | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> |             | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          |             | 0.0                          | 0.0               | 0.0                  | 181.51               |

|                       |                |                          |                  |                    |
|-----------------------|----------------|--------------------------|------------------|--------------------|
| <b>Survey Program</b> | Date 8/7/2013  |                          |                  |                    |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |
| 608.0                 | 11,568.0       | Survey #1 (Wellbore #1)  | MWD              | MWD - Standard     |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|--|
| <b>Survey</b>              |                        |                    |                            |                   |                   |                              |                              |                             |                            |  |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |  |
| 0.0                        | 0.00                   | 0.00               | 0.0                        | 0.0               | 0.0               | 0.0                          | 0.00                         | 0.00                        | 0.00                       |  |
| 608.0                      | 1.00                   | 172.46             | 608.0                      | -5.3              | 0.7               | 5.2                          | 0.16                         | 0.16                        | 0.00                       |  |
| 780.0                      | 0.60                   | 186.46             | 780.0                      | -7.6              | 0.8               | 7.6                          | 0.26                         | -0.23                       | 8.14                       |  |
| 835.0                      | 0.50                   | 233.16             | 834.9                      | -8.1              | 0.6               | 8.1                          | 0.81                         | -0.18                       | 84.91                      |  |
| 930.0                      | 0.20                   | 166.36             | 929.9                      | -8.5              | 0.3               | 8.5                          | 0.48                         | -0.32                       | -70.32                     |  |
| 1,025.0                    | 0.30                   | 240.66             | 1,024.9                    | -8.8              | 0.1               | 8.8                          | 0.33                         | 0.11                        | 78.21                      |  |
| 1,119.0                    | 0.10                   | 65.06              | 1,118.9                    | -8.9              | 0.0               | 8.8                          | 0.43                         | -0.21                       | -186.81                    |  |
| 1,214.0                    | 0.40                   | 183.36             | 1,213.9                    | -9.1              | 0.0               | 9.1                          | 0.48                         | 0.32                        | 124.53                     |  |
| 1,308.0                    | 0.40                   | 204.26             | 1,307.9                    | -9.8              | -0.1              | 9.8                          | 0.15                         | 0.00                        | 22.23                      |  |
| 1,403.0                    | 0.30                   | 275.46             | 1,402.9                    | -10.1             | -0.5              | 10.1                         | 0.44                         | -0.11                       | 74.95                      |  |
| 1,496.0                    | 0.20                   | 285.56             | 1,495.9                    | -10.0             | -0.9              | 10.0                         | 0.12                         | -0.11                       | 10.86                      |  |
| 1,591.0                    | 0.40                   | 283.56             | 1,590.9                    | -9.9              | -1.4              | 9.9                          | 0.21                         | 0.21                        | -2.11                      |  |

|                  |   |                                     |  |
|------------------|---|-------------------------------------|--|
| <b>Company:</b>  | Noble Energy Inc.- Weld County, CO (Grid North) | <b>Local Co-ordinate Reference:</b> | Well Moser H27-79HN                    |
| <b>Project:</b>  | SEC.22-T3N-R65W                                 | <b>TVD Reference:</b>               | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Site:</b>     | Moser H27-79HN Pad Sec.22-T3N-R65W              | <b>MD Reference:</b>                | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Well:</b>     | Moser H27-79HN                                  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                                     | <b>Database:</b>                    | Landmark                               |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 1,685.0             | 0.80            | 306.76      | 1,684.9             | -9.4       | -2.3       | 9.5                   | 0.49                  | 0.43                 | 24.68               |
| 1,778.0             | 0.70            | 334.06      | 1,777.9             | -8.5       | -3.0       | 8.6                   | 0.39                  | -0.11                | 29.35               |
| 1,872.0             | 0.90            | 305.76      | 1,871.9             | -7.5       | -3.9       | 7.6                   | 0.46                  | 0.21                 | -30.11              |
| 1,967.0             | 1.10            | 116.56      | 1,966.9             | -7.5       | -3.7       | 7.6                   | 2.10                  | 0.21                 | 179.79              |
| 2,062.0             | 3.00            | 223.46      | 2,061.9             | -9.7       | -4.6       | 9.8                   | 3.67                  | 2.00                 | 112.53              |
| 2,157.0             | 3.30            | 206.96      | 2,156.7             | -14.0      | -7.5       | 14.2                  | 1.00                  | 0.32                 | -17.37              |
| 2,252.0             | 3.80            | 212.26      | 2,251.5             | -19.1      | -10.4      | 19.3                  | 0.63                  | 0.53                 | 5.58                |
| 2,346.0             | 4.10            | 221.36      | 2,345.3             | -24.2      | -14.3      | 24.6                  | 0.74                  | 0.32                 | 9.68                |
| 2,441.0             | 4.50            | 212.56      | 2,440.1             | -29.9      | -18.6      | 30.4                  | 0.81                  | 0.42                 | -9.26               |
| 2,536.0             | 5.50            | 223.66      | 2,534.7             | -36.4      | -23.7      | 37.0                  | 1.46                  | 1.05                 | 11.68               |
| 2,631.0             | 5.90            | 210.46      | 2,629.2             | -43.9      | -29.3      | 44.6                  | 1.44                  | 0.42                 | -13.89              |
| 2,726.0             | 7.70            | 214.46      | 2,723.6             | -53.3      | -35.4      | 54.2                  | 1.96                  | 1.89                 | 4.21                |
| 2,820.0             | 7.60            | 211.86      | 2,816.7             | -63.8      | -42.2      | 64.9                  | 0.38                  | -0.11                | -2.77               |
| 2,915.0             | 7.10            | 207.86      | 2,910.9             | -74.3      | -48.3      | 75.6                  | 0.75                  | -0.53                | -4.21               |
| 3,010.0             | 7.10            | 205.76      | 3,005.2             | -84.8      | -53.6      | 86.2                  | 0.27                  | 0.00                 | -2.21               |
| 3,105.0             | 6.30            | 200.66      | 3,099.6             | -95.0      | -58.0      | 96.4                  | 1.05                  | -0.84                | -5.37               |
| 3,200.0             | 7.90            | 206.26      | 3,193.8             | -105.7     | -62.7      | 107.3                 | 1.83                  | 1.68                 | 5.89                |
| 3,295.0             | 7.40            | 202.16      | 3,288.0             | -117.2     | -67.9      | 119.0                 | 0.78                  | -0.53                | -4.32               |
| 3,389.0             | 7.70            | 204.66      | 3,381.2             | -128.5     | -72.8      | 130.4                 | 0.47                  | 0.32                 | 2.66                |
| 3,484.0             | 7.10            | 199.26      | 3,475.4             | -139.9     | -77.4      | 141.9                 | 0.97                  | -0.63                | -5.68               |
| 3,579.0             | 7.60            | 210.66      | 3,569.6             | -150.8     | -82.6      | 152.9                 | 1.62                  | 0.53                 | 12.00               |
| 3,674.0             | 7.00            | 208.56      | 3,663.8             | -161.3     | -88.5      | 163.6                 | 0.69                  | -0.63                | -2.21               |
| 3,768.0             | 6.30            | 213.96      | 3,757.2             | -170.6     | -94.1      | 173.0                 | 1.00                  | -0.74                | 5.74                |
| 3,863.0             | 6.00            | 209.56      | 3,851.7             | -179.3     | -99.5      | 181.8                 | 0.59                  | -0.32                | -4.63               |
| 3,957.0             | 6.00            | 210.46      | 3,945.1             | -187.8     | -104.4     | 190.4                 | 0.10                  | 0.00                 | 0.96                |
| 4,052.0             | 6.90            | 220.46      | 4,039.5             | -196.4     | -110.6     | 199.2                 | 1.51                  | 0.95                 | 10.53               |
| 4,147.0             | 7.70            | 218.16      | 4,133.8             | -205.7     | -118.3     | 208.8                 | 0.90                  | 0.84                 | -2.42               |
| 4,242.0             | 7.50            | 216.76      | 4,227.9             | -215.7     | -125.9     | 218.9                 | 0.29                  | -0.21                | -1.47               |
| 4,336.0             | 8.30            | 222.76      | 4,321.0             | -225.6     | -134.2     | 229.0                 | 1.22                  | 0.85                 | 6.38                |
| 4,431.0             | 6.20            | 213.46      | 4,415.3             | -234.9     | -141.7     | 238.6                 | 2.53                  | -2.21                | -9.79               |
| 4,526.0             | 7.70            | 229.76      | 4,509.6             | -243.3     | -149.4     | 247.1                 | 2.59                  | 1.58                 | 17.16               |
| 4,621.0             | 8.90            | 215.86      | 4,603.6             | -253.4     | -158.5     | 257.5                 | 2.45                  | 1.26                 | -14.63              |
| 4,715.0             | 7.50            | 217.86      | 4,696.6             | -264.1     | -166.6     | 268.4                 | 1.52                  | -1.49                | 2.13                |
| 4,810.0             | 5.50            | 210.06      | 4,791.0             | -272.9     | -172.6     | 277.4                 | 2.30                  | -2.11                | -8.21               |
| 4,905.0             | 5.40            | 200.26      | 4,885.6             | -281.1     | -176.5     | 285.6                 | 0.98                  | -0.11                | -10.32              |
| 5,000.0             | 5.30            | 220.66      | 4,980.2             | -288.6     | -180.9     | 293.3                 | 1.99                  | -0.11                | 21.47               |
| 5,095.0             | 6.50            | 224.56      | 5,074.7             | -295.8     | -187.5     | 300.6                 | 1.33                  | 1.26                 | 4.11                |
| 5,190.0             | 5.50            | 219.06      | 5,169.2             | -303.1     | -194.2     | 308.1                 | 1.21                  | -1.05                | -5.79               |
| 5,285.0             | 5.90            | 218.86      | 5,263.7             | -310.5     | -200.1     | 315.6                 | 0.42                  | 0.42                 | -0.21               |
| 5,379.0             | 5.50            | 216.96      | 5,357.2             | -317.8     | -205.8     | 323.1                 | 0.47                  | -0.43                | -2.02               |
| 5,474.0             | 4.30            | 212.96      | 5,451.9             | -324.5     | -210.5     | 329.9                 | 1.31                  | -1.26                | -4.21               |
| 5,569.0             | 3.70            | 209.26      | 5,546.7             | -330.1     | -213.9     | 335.6                 | 0.69                  | -0.63                | -3.89               |
| 5,664.0             | 3.10            | 208.16      | 5,641.5             | -335.1     | -216.7     | 340.6                 | 0.64                  | -0.63                | -1.16               |
| 5,759.0             | 2.40            | 203.26      | 5,736.4             | -339.1     | -218.7     | 344.8                 | 0.78                  | -0.74                | -5.16               |
| 5,854.0             | 2.30            | 198.86      | 5,831.3             | -342.8     | -220.1     | 348.4                 | 0.22                  | -0.11                | -4.63               |
| 5,948.0             | 0.90            | 263.06      | 5,925.3             | -344.7     | -221.4     | 350.4                 | 2.21                  | -1.49                | 68.30               |
| 6,043.0             | 0.50            | 244.36      | 6,020.3             | -344.9     | -222.5     | 350.7                 | 0.48                  | -0.42                | -19.68              |
| 6,138.0             | 0.40            | 281.66      | 6,115.3             | -345.0     | -223.2     | 350.8                 | 0.32                  | -0.11                | 39.26               |
| 6,233.0             | 0.40            | 339.26      | 6,210.3             | -344.7     | -223.7     | 350.4                 | 0.41                  | 0.00                 | 60.63               |
| 6,328.0             | 5.50            | 180.76      | 6,305.1             | -348.9     | -223.8     | 354.7                 | 6.18                  | 5.37                 | -166.84             |
| 6,423.0             | 13.90           | 184.66      | 6,398.7             | -364.9     | -224.8     | 370.6                 | 8.86                  | 8.84                 | 4.11                |
| 6,517.0             | 16.10           | 181.66      | 6,489.5             | -389.1     | -226.1     | 395.0                 | 2.48                  | 2.34                 | -3.19               |
| 6,612.0             | 23.40           | 182.86      | 6,578.8             | -421.2     | -227.4     | 427.0                 | 7.70                  | 7.68                 | 1.26                |

|                  |   |                                     |  |
|------------------|---|-------------------------------------|--|
| <b>Company:</b>  | Noble Energy Inc.- Weld County, CO (Grid North) | <b>Local Co-ordinate Reference:</b> | Well Moser H27-79HN                    |
| <b>Project:</b>  | SEC.22-T3N-R65W                                 | <b>TVD Reference:</b>               | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Site:</b>     | Moser H27-79HN Pad Sec.22-T3N-R65W              | <b>MD Reference:</b>                | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Well:</b>     | Moser H27-79HN                                  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                                     | <b>Database:</b>                    | Landmark                               |

#### Survey

| Measured Depth (ft)              | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,707.0                          | 32.70           | 174.56      | 6,662.6             | -465.7     | -225.9     | 471.5                 | 10.60                 | 9.79                 | -8.74               |
| 6,802.0                          | 44.70           | 174.06      | 6,736.6             | -524.7     | -220.0     | 530.3                 | 12.64                 | 12.63                | -0.53               |
| 6,897.0                          | 48.70           | 177.06      | 6,801.8             | -593.6     | -214.7     | 599.0                 | 4.80                  | 4.21                 | 3.16                |
| 6,991.0                          | 58.70           | 177.96      | 6,857.3             | -669.2     | -211.5     | 674.5                 | 10.67                 | 10.64                | 0.96                |
| 7,086.0                          | 61.20           | 177.76      | 6,904.9             | -751.4     | -208.4     | 756.6                 | 2.64                  | 2.63                 | -0.21               |
| 7,181.0                          | 66.80           | 178.26      | 6,946.5             | -836.7     | -205.5     | 841.8                 | 5.91                  | 5.89                 | 0.53                |
| 7,228.0                          | 71.10           | 177.56      | 6,963.4             | -880.5     | -203.9     | 885.5                 | 9.25                  | 9.15                 | -1.49               |
| 7,276.0                          | 77.10           | 178.66      | 6,976.6             | -926.6     | -202.3     | 931.6                 | 12.69                 | 12.50                | 2.29                |
| 7,323.0                          | 80.50           | 178.46      | 6,985.7             | -972.7     | -201.2     | 977.6                 | 7.25                  | 7.23                 | -0.43               |
| 7,344.0                          | 80.80           | 178.96      | 6,989.1             | -993.4     | -200.7     | 998.3                 | 2.75                  | 1.43                 | 2.38                |
| 7,398.0                          | 84.50           | 178.86      | 6,996.0             | -1,046.9   | -199.7     | 1,051.8               | 6.85                  | 6.85                 | -0.19               |
| 7,445.0                          | 85.50           | 178.96      | 7,000.1             | -1,093.7   | -198.8     | 1,098.6               | 2.14                  | 2.13                 | 0.21                |
| 7,484.4                          | 86.24           | 178.14      | 7,002.9             | -1,133.1   | -197.8     | 1,137.9               | 2.80                  | 1.87                 | -2.08               |
| <b>Moser H27-79HN Landing Pt</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 7,493.0                          | 86.40           | 177.96      | 7,003.5             | -1,141.6   | -197.5     | 1,146.4               | 2.80                  | 1.88                 | -2.08               |
| 7,540.0                          | 89.30           | 178.86      | 7,005.3             | -1,188.5   | -196.2     | 1,193.3               | 6.46                  | 6.17                 | 1.91                |
| 7,588.0                          | 93.40           | 178.96      | 7,004.1             | -1,236.5   | -195.3     | 1,241.2               | 8.54                  | 8.54                 | 0.21                |
| 7,682.0                          | 93.10           | 177.06      | 6,998.8             | -1,330.3   | -192.0     | 1,334.9               | 2.04                  | -0.32                | -2.02               |
| 7,777.0                          | 91.50           | 175.16      | 6,995.0             | -1,425.0   | -185.6     | 1,429.4               | 2.61                  | -1.68                | -2.00               |
| 7,872.0                          | 87.50           | 175.46      | 6,995.8             | -1,519.7   | -177.8     | 1,523.8               | 4.22                  | -4.21                | 0.32                |
| 7,967.0                          | 87.00           | 176.16      | 7,000.4             | -1,614.3   | -170.9     | 1,618.2               | 0.90                  | -0.53                | 0.74                |
| 8,061.0                          | 87.20           | 181.06      | 7,005.1             | -1,708.1   | -168.6     | 1,712.0               | 5.21                  | 0.21                 | 5.21                |
| 8,156.0                          | 88.50           | 180.56      | 7,008.7             | -1,803.0   | -170.0     | 1,806.9               | 1.47                  | 1.37                 | -0.53               |
| 8,251.0                          | 88.90           | 180.56      | 7,010.8             | -1,898.0   | -170.9     | 1,901.8               | 0.42                  | 0.42                 | 0.00                |
| 8,346.0                          | 89.60           | 181.66      | 7,012.1             | -1,993.0   | -172.7     | 1,996.8               | 1.37                  | 0.74                 | 1.16                |
| 8,440.0                          | 90.40           | 181.26      | 7,012.1             | -2,087.0   | -175.1     | 2,090.8               | 0.95                  | 0.85                 | -0.43               |
| 8,535.0                          | 90.50           | 178.16      | 7,011.3             | -2,181.9   | -174.7     | 2,185.8               | 3.26                  | 0.11                 | -3.26               |
| 8,630.0                          | 90.00           | 178.26      | 7,010.9             | -2,276.9   | -171.7     | 2,280.6               | 0.54                  | -0.53                | 0.11                |
| 8,725.0                          | 90.00           | 177.96      | 7,010.9             | -2,371.8   | -168.6     | 2,375.4               | 0.32                  | 0.00                 | -0.32               |
| 8,819.0                          | 90.70           | 177.26      | 7,010.4             | -2,465.8   | -164.6     | 2,469.2               | 1.05                  | 0.74                 | -0.74               |
| 8,914.0                          | 90.40           | 178.26      | 7,009.4             | -2,560.7   | -160.9     | 2,564.0               | 1.10                  | -0.32                | 1.05                |
| 9,009.0                          | 90.00           | 177.96      | 7,009.1             | -2,655.6   | -157.8     | 2,658.9               | 0.53                  | -0.42                | -0.32               |
| 9,104.0                          | 89.60           | 175.16      | 7,009.4             | -2,750.4   | -152.1     | 2,753.5               | 2.98                  | -0.42                | -2.95               |
| 9,198.0                          | 89.20           | 176.86      | 7,010.4             | -2,844.2   | -145.6     | 2,847.0               | 1.86                  | -0.43                | 1.81                |
| 9,293.0                          | 90.20           | 176.56      | 7,010.9             | -2,939.0   | -140.1     | 2,941.7               | 1.10                  | 1.05                 | -0.32               |
| 9,388.0                          | 90.60           | 176.56      | 7,010.3             | -3,033.9   | -134.4     | 3,036.4               | 0.42                  | 0.42                 | 0.00                |
| 9,483.0                          | 90.40           | 178.66      | 7,009.4             | -3,128.8   | -130.4     | 3,131.1               | 2.22                  | -0.21                | 2.21                |
| 9,577.0                          | 91.50           | 177.56      | 7,007.9             | -3,222.7   | -127.3     | 3,224.9               | 1.65                  | 1.17                 | -1.17               |
| 9,672.0                          | 90.10           | 177.46      | 7,006.5             | -3,317.6   | -123.2     | 3,319.7               | 1.48                  | -1.47                | -0.11               |
| 9,767.0                          | 88.60           | 178.86      | 7,007.6             | -3,412.5   | -120.2     | 3,414.5               | 2.16                  | -1.58                | 1.47                |
| 9,862.0                          | 88.20           | 180.96      | 7,010.3             | -3,507.5   | -120.0     | 3,509.4               | 2.25                  | -0.42                | 2.21                |
| 9,956.0                          | 90.10           | 179.86      | 7,011.7             | -3,601.5   | -120.7     | 3,603.4               | 2.34                  | 2.02                 | -1.17               |
| 10,051.0                         | 90.10           | 179.56      | 7,011.5             | -3,696.5   | -120.2     | 3,698.4               | 0.32                  | 0.00                 | -0.32               |
| 10,146.0                         | 91.40           | 179.56      | 7,010.3             | -3,791.5   | -119.5     | 3,793.3               | 1.37                  | 1.37                 | 0.00                |
| 10,241.0                         | 91.90           | 177.76      | 7,007.5             | -3,886.4   | -117.3     | 3,888.1               | 1.97                  | 0.53                 | -1.89               |
| 10,335.0                         | 91.20           | 179.16      | 7,005.0             | -3,980.3   | -114.7     | 3,982.0               | 1.66                  | -0.74                | 1.49                |
| 10,430.0                         | 90.30           | 178.96      | 7,003.7             | -4,075.3   | -113.2     | 4,076.9               | 0.97                  | -0.95                | -0.21               |
| 10,525.0                         | 89.70           | 178.66      | 7,003.7             | -4,170.3   | -111.2     | 4,171.8               | 0.71                  | -0.63                | -0.32               |
| 10,620.0                         | 89.30           | 178.26      | 7,004.6             | -4,265.3   | -108.6     | 4,266.6               | 0.60                  | -0.42                | -0.42               |
| 10,715.0                         | 89.40           | 178.86      | 7,005.6             | -4,360.2   | -106.3     | 4,361.5               | 0.64                  | 0.11                 | 0.63                |
| 10,810.0                         | 90.20           | 177.46      | 7,006.0             | -4,455.2   | -103.2     | 4,456.3               | 1.70                  | 0.84                 | -1.47               |
| 10,905.0                         | 90.70           | 178.26      | 7,005.2             | -4,550.1   | -99.7      | 4,551.1               | 0.99                  | 0.53                 | 0.84                |
| 11,000.0                         | 90.20           | 178.86      | 7,004.5             | -4,645.1   | -97.3      | 4,646.0               | 0.82                  | -0.53                | 0.63                |

|                  |   |                                     |  |
|------------------|---|-------------------------------------|--|
| <b>Company:</b>  | Noble Energy Inc.- Weld County, CO (Grid North) | <b>Local Co-ordinate Reference:</b> | Well Moser H27-79HN                    |
| <b>Project:</b>  | SEC.22-T3N-R65W                                 | <b>TVD Reference:</b>               | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Site:</b>     | Moser H27-79HN Pad Sec.22-T3N-R65W              | <b>MD Reference:</b>                | WELL @ 4826.0ft (Ensign 131 RKB - 13') |
| <b>Well:</b>     | Moser H27-79HN                                  | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                                     | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                                     | <b>Database:</b>                    | Landmark                               |

Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 11,094.0            | 89.20           | 178.96      | 7,005.0             | -4,739.0   | -95.5      | 4,739.9               | 1.07                  | -1.06                | 0.11                |
| 11,189.0            | 90.10           | 178.26      | 7,005.6             | -4,834.0   | -93.2      | 4,834.8               | 1.20                  | 0.95                 | -0.74               |
| 11,284.0            | 90.00           | 179.56      | 7,005.5             | -4,929.0   | -91.4      | 4,929.7               | 1.37                  | -0.11                | 1.37                |
| 11,379.0            | 89.60           | 179.66      | 7,005.8             | -5,024.0   | -90.7      | 5,024.6               | 0.43                  | -0.42                | 0.11                |
| 11,473.0            | 91.50           | 179.16      | 7,004.9             | -5,118.0   | -89.8      | 5,118.6               | 2.09                  | 2.02                 | -0.53               |
| 11,513.0            | 92.70           | 178.86      | 7,003.4             | -5,157.9   | -89.1      | 5,158.5               | 3.09                  | 3.00                 | -0.75               |
| 11,568.0            | 92.70           | 178.86      | 7,000.8             | -5,212.9   | -88.0      | 5,213.4               | 0.00                  | 0.00                 | 0.00                |

Moser H27-79HN BHL 535'FSL & 75'FWL

|                   |                    |             |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|