

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

Well Name: **Mahalo State AA09-74-1AHNC**

Surface Location: Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

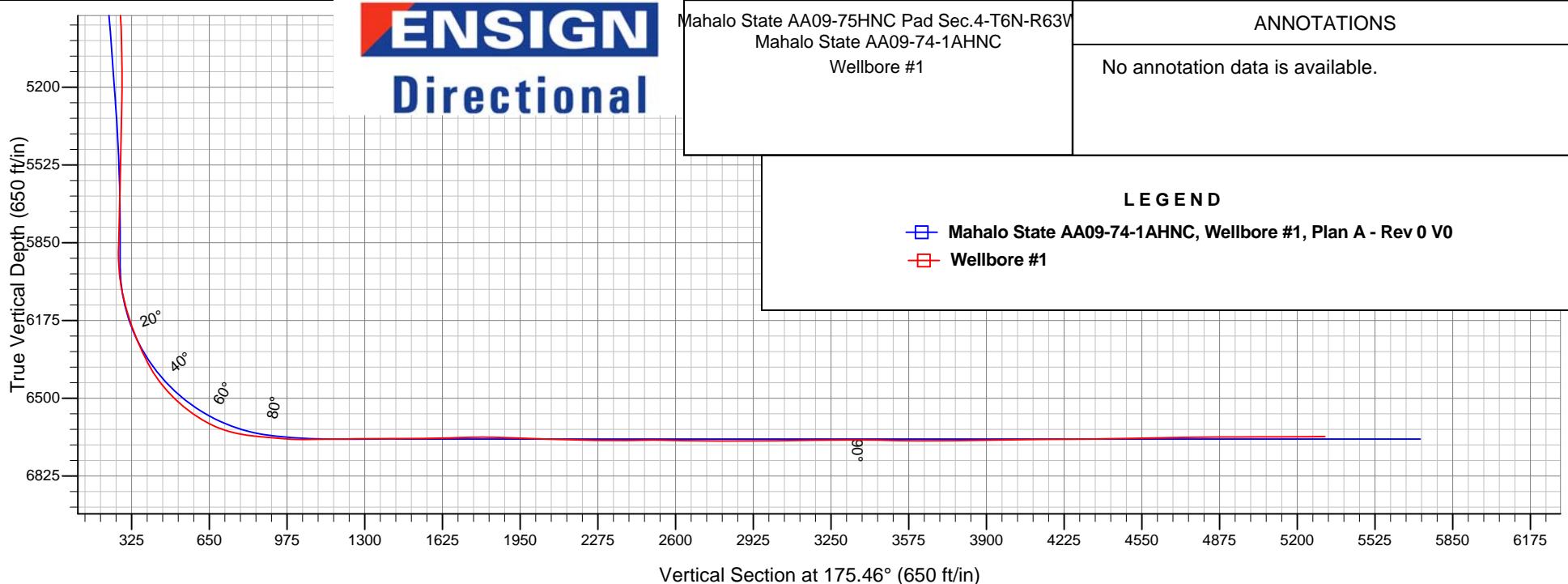
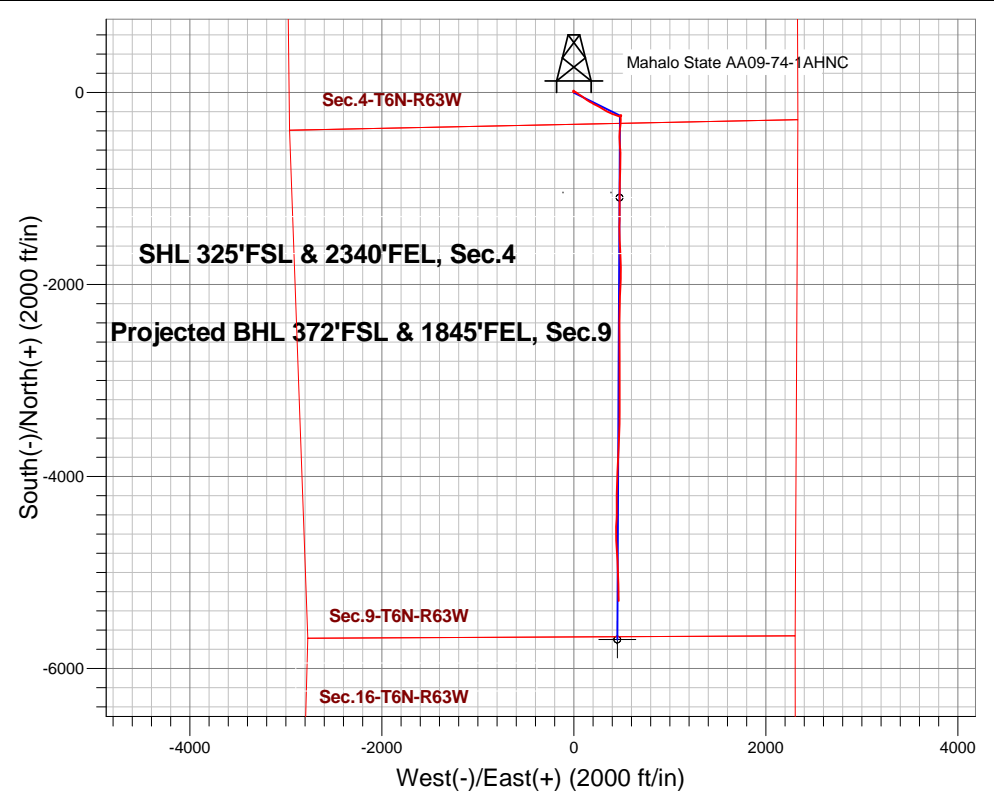
Ground Elevation: 4694.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1430207.46 | 3294575.89 | 40.509490 | -104.440580 | |
| PD 829 RKB - 16' WELL @ 4710.0ft (PD 829 RKB - 16') | | | | | | |

Surface Location: Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
Ground Elevation: 4694.0

| S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|---|-------|------------------|------------------------------------|-----------|-------------|------|
| | 0.0 | 1430207.46 | 3294575.89 | 40.509490 | -104.440580 | |
| | | PD 829 RKB - 16' | WELL @ 4710.0ft (PD 829 RKB - 16') | | | |

Projected Bottom Hole Location
11481'MD 6660'TVD 5295'S & 466'E of SHL
90.5 degree Incl @ 178.4 degree AZM





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

Sec.4-T6N-R63W

Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W

Mahalo State AA09-74-1AHNC

Wellbore #1

Design: Wellbore #1

Final Survey

22 January, 2015

| | | | |
|------------------|---|-------------------------------------|------------------------------------|
| Company: | Noble Energy Inc.- Weld County, CO (Grid North) | Local Co-ordinate Reference: | Well Mahalo State AA09-74-1AHNC |
| Project: | Sec.4-T6N-R63W | TVD Reference: | WELL @ 4710.0ft (PD 829 RKB - 16') |
| Site: | Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W | MD Reference: | WELL @ 4710.0ft (PD 829 RKB - 16') |
| Well: | Mahalo State AA09-74-1AHNC | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| | | | |
|--------------------|---------------------------------------|----------------------|-----------------------------|
| Project | Sec.4-T6N-R63W, Weld County, Colorado | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|--|--------------|-----------------|-------------------|-------------|
| Site | Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W | | | | |
| Site Position: | | Northing: | 1,430,207.90 ft | Latitude: | 40.509490 |
| From: | Lat/Long | Easting: | 3,294,612.04 ft | Longitude: | -104.440450 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | " | Grid Convergence: | 0.68 ° |

| | | | | | | |
|----------------------|----------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Mahalo State AA09-74-1AHNC | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,430,207.46 ft | Latitude: | 40.509490 |
| | +E/-W | 0.0 ft | Easting: | 3,294,575.89 ft | Longitude: | -104.440580 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,694.0 ft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 12/31/2014 | 8.22 | 67.07 | 52,849 |

| | | | | | |
|-------------------|--------------------------|---------------|---------------|------------------|-----|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 6,670.0 | 0.0 | 0.0 | 175.46 | |

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|-----------------------|----------------|----------------------------------|------------------|---------------------|--|
| Survey Program | Date | 1/22/2015 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 300.0 | 681.0 | Surface (Wellbore #1) | Flexi-Shot | VES Flexi-Shot Tool | |
| 921.0 | 6,945.0 | Intermediate/Curve (Wellbore #1) | MWD | MWD - Standard | |
| 7,039.0 | 11,481.0 | Lateral (Wellbore #1) | MWD | MWD - Standard | |

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|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|--|
| Survey | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | |
| 300.0 | 0.37 | 275.66 | 300.0 | 0.1 | -1.0 | -0.2 | 0.12 | |
| 681.0 | 1.10 | 330.22 | 681.0 | 3.4 | -4.0 | -3.7 | 0.25 | |
| 921.0 | 1.70 | 7.30 | 920.9 | 8.9 | -4.7 | -9.3 | 0.44 | |
| 1,100.0 | 1.60 | 6.70 | 1,099.8 | 14.0 | -4.1 | -14.3 | 0.06 | |
| 1,195.0 | 1.80 | 4.00 | 1,194.8 | 16.8 | -3.8 | -17.1 | 0.23 | |
| 1,290.0 | 1.80 | 3.00 | 1,289.7 | 19.8 | -3.6 | -20.0 | 0.03 | |
| 1,385.0 | 1.10 | 208.60 | 1,384.7 | 20.5 | -4.0 | -20.8 | 2.98 | |
| 1,480.0 | 0.80 | 216.90 | 1,479.7 | 19.2 | -4.8 | -19.5 | 0.35 | |
| 1,575.0 | 2.00 | 149.40 | 1,574.7 | 17.2 | -4.4 | -17.5 | 1.95 | |

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|------------------|---|-------------------------------------|------------------------------------|
| Company: | Noble Energy Inc.- Weld County, CO (Grid North) | Local Co-ordinate Reference: | Well Mahalo State AA09-74-1AHNC |
| Project: | Sec.4-T6N-R63W | TVD Reference: | WELL @ 4710.0ft (PD 829 RKB - 16') |
| Site: | Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W | MD Reference: | WELL @ 4710.0ft (PD 829 RKB - 16') |
| Well: | Mahalo State AA09-74-1AHNC | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | |
|------------------------|--------------------|----------------|------------------------|---------------|---------------|--------------------------|--------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
| 1,670.0 | 2.90 | 121.10 | 1,669.6 | 14.6 | -1.5 | -14.6 | 1.56 |
| 1,765.0 | 4.90 | 110.50 | 1,764.4 | 11.9 | 4.4 | -11.5 | 2.23 |
| 1,860.0 | 5.50 | 113.50 | 1,859.0 | 8.7 | 12.4 | -7.7 | 0.69 |
| 1,955.0 | 6.10 | 126.50 | 1,953.5 | 3.8 | 20.6 | -2.2 | 1.52 |
| 2,037.0 | 7.90 | 122.00 | 2,034.9 | -1.7 | 28.9 | 4.0 | 2.29 |
| 2,127.0 | 8.70 | 128.70 | 2,123.9 | -9.3 | 39.4 | 12.4 | 1.39 |
| 2,216.0 | 10.20 | 120.20 | 2,211.7 | -17.4 | 51.5 | 21.5 | 2.30 |
| 2,306.0 | 9.90 | 120.00 | 2,300.4 | -25.3 | 65.1 | 30.4 | 0.34 |
| 2,396.0 | 9.40 | 129.20 | 2,389.1 | -33.8 | 77.5 | 39.9 | 1.80 |
| 2,485.0 | 10.90 | 129.60 | 2,476.7 | -43.8 | 89.6 | 50.7 | 1.69 |
| 2,575.0 | 11.80 | 125.00 | 2,564.9 | -54.5 | 103.7 | 62.5 | 1.42 |
| 2,664.0 | 10.70 | 124.20 | 2,652.2 | -64.4 | 118.0 | 73.5 | 1.25 |
| 2,754.0 | 9.90 | 125.00 | 2,740.8 | -73.5 | 131.2 | 83.6 | 0.90 |
| 2,843.0 | 11.40 | 121.30 | 2,828.2 | -82.5 | 145.0 | 93.7 | 1.85 |
| 2,933.0 | 11.40 | 120.50 | 2,916.5 | -91.6 | 160.3 | 104.0 | 0.18 |
| 3,023.0 | 10.50 | 118.60 | 3,004.8 | -100.0 | 175.1 | 113.6 | 1.08 |
| 3,112.0 | 9.80 | 119.50 | 3,092.4 | -107.6 | 188.9 | 122.2 | 0.81 |
| 3,201.0 | 9.20 | 120.20 | 3,180.2 | -115.0 | 201.6 | 130.5 | 0.69 |
| 3,291.0 | 9.50 | 118.10 | 3,269.0 | -122.1 | 214.4 | 138.6 | 0.50 |
| 3,381.0 | 8.50 | 112.60 | 3,357.9 | -128.1 | 227.1 | 145.7 | 1.46 |
| 3,471.0 | 8.20 | 116.50 | 3,447.0 | -133.5 | 238.9 | 152.0 | 0.71 |
| 3,560.0 | 8.70 | 120.70 | 3,535.0 | -139.8 | 250.4 | 159.2 | 0.89 |
| 3,650.0 | 11.30 | 122.40 | 3,623.6 | -148.0 | 263.7 | 168.4 | 2.91 |
| 3,740.0 | 11.90 | 121.40 | 3,711.8 | -157.6 | 279.1 | 179.2 | 0.70 |
| 3,829.0 | 12.10 | 120.60 | 3,798.8 | -167.1 | 294.9 | 189.9 | 0.29 |
| 3,918.0 | 12.30 | 120.30 | 3,885.8 | -176.6 | 311.2 | 200.7 | 0.24 |
| 4,008.0 | 11.60 | 118.70 | 3,973.9 | -185.8 | 327.4 | 211.1 | 0.86 |
| 4,098.0 | 11.30 | 117.20 | 4,062.1 | -194.2 | 343.1 | 220.7 | 0.47 |
| 4,188.0 | 10.60 | 116.30 | 4,150.4 | -201.9 | 358.4 | 229.6 | 0.80 |
| 4,277.0 | 10.30 | 116.10 | 4,238.0 | -209.0 | 372.9 | 237.9 | 0.34 |
| 4,367.0 | 9.40 | 114.90 | 4,326.6 | -215.7 | 386.8 | 245.6 | 1.03 |
| 4,456.0 | 10.30 | 111.10 | 4,414.3 | -221.6 | 400.8 | 252.6 | 1.25 |
| 4,546.0 | 9.40 | 109.40 | 4,503.0 | -226.9 | 415.2 | 259.0 | 1.05 |
| 4,636.0 | 7.60 | 107.90 | 4,592.0 | -231.2 | 427.8 | 264.3 | 2.01 |
| 4,726.0 | 6.50 | 109.40 | 4,681.3 | -234.7 | 438.3 | 268.6 | 1.24 |
| 4,815.0 | 6.10 | 113.20 | 4,769.8 | -238.2 | 447.4 | 272.9 | 0.65 |
| 4,905.0 | 5.60 | 111.90 | 4,859.3 | -241.8 | 455.9 | 277.1 | 0.57 |
| 4,995.0 | 5.10 | 111.40 | 4,948.9 | -244.9 | 463.7 | 280.8 | 0.56 |
| 5,084.0 | 5.40 | 97.30 | 5,037.6 | -246.8 | 471.5 | 283.4 | 1.48 |
| 5,174.0 | 4.80 | 94.00 | 5,127.2 | -247.6 | 479.5 | 284.8 | 0.74 |
| 5,264.0 | 3.60 | 80.10 | 5,217.0 | -247.4 | 486.0 | 285.1 | 1.74 |
| 5,353.0 | 3.10 | 45.50 | 5,305.8 | -245.2 | 490.5 | 283.3 | 2.30 |
| 5,443.0 | 1.30 | 31.10 | 5,395.7 | -242.7 | 492.7 | 280.9 | 2.08 |
| 5,532.0 | 0.60 | 346.80 | 5,484.7 | -241.3 | 493.2 | 279.6 | 1.09 |
| 5,622.0 | 1.50 | 339.00 | 5,574.7 | -239.8 | 492.6 | 278.0 | 1.01 |

| | | | |
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| Well: | Mahalo State AA09-74-1AHNC | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | |
|---|--------------------|----------------|------------------------|---------------|---------------|--------------------------|--------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
| 5,712.0 | 1.50 | 335.80 | 5,664.7 | -237.6 | 491.7 | 275.8 | 0.09 |
| 5,801.0 | 1.70 | 344.20 | 5,753.7 | -235.3 | 490.9 | 273.4 | 0.35 |
| 5,891.0 | 1.40 | 347.10 | 5,843.6 | -232.9 | 490.3 | 271.0 | 0.34 |
| 5,936.0 | 0.60 | 340.60 | 5,888.6 | -232.2 | 490.1 | 270.2 | 1.79 |
| 5,981.0 | 2.70 | 196.20 | 5,933.6 | -233.0 | 489.7 | 271.0 | 7.13 |
| 6,026.0 | 6.10 | 191.80 | 5,978.5 | -236.3 | 488.9 | 274.2 | 7.59 |
| 6,070.0 | 9.30 | 190.80 | 6,022.1 | -242.1 | 487.8 | 279.9 | 7.28 |
| 6,115.0 | 12.10 | 182.50 | 6,066.3 | -250.4 | 486.9 | 288.1 | 7.09 |
| 6,160.0 | 14.80 | 181.00 | 6,110.0 | -260.9 | 486.6 | 298.5 | 6.05 |
| 6,205.0 | 17.30 | 180.30 | 6,153.3 | -273.3 | 486.4 | 310.9 | 5.57 |
| 6,250.0 | 19.30 | 181.00 | 6,196.0 | -287.4 | 486.3 | 325.0 | 4.47 |
| 6,295.0 | 21.70 | 179.20 | 6,238.1 | -303.2 | 486.3 | 340.7 | 5.51 |
| 6,340.0 | 24.10 | 179.90 | 6,279.6 | -320.7 | 486.4 | 358.1 | 5.37 |
| 6,384.0 | 26.10 | 184.30 | 6,319.4 | -339.3 | 485.7 | 376.7 | 6.21 |
| 6,429.0 | 28.70 | 188.40 | 6,359.4 | -359.9 | 483.4 | 397.0 | 7.14 |
| 6,474.0 | 33.00 | 188.00 | 6,398.0 | -382.7 | 480.1 | 419.5 | 9.57 |
| 6,519.0 | 37.70 | 184.60 | 6,434.7 | -408.6 | 477.3 | 445.1 | 11.32 |
| 6,563.0 | 42.70 | 182.40 | 6,468.3 | -436.9 | 475.6 | 473.2 | 11.81 |
| 6,608.0 | 46.40 | 177.20 | 6,500.4 | -468.5 | 475.7 | 504.6 | 11.54 |
| 6,653.0 | 49.60 | 177.30 | 6,530.5 | -501.9 | 477.3 | 538.0 | 7.11 |
| 6,698.0 | 53.20 | 177.30 | 6,558.6 | -537.0 | 479.0 | 573.2 | 8.00 |
| 6,743.0 | 58.20 | 175.90 | 6,583.9 | -574.1 | 481.2 | 610.3 | 11.40 |
| 6,787.0 | 63.30 | 177.20 | 6,605.4 | -612.4 | 483.5 | 648.7 | 11.87 |
| 6,832.0 | 68.20 | 178.60 | 6,623.9 | -653.4 | 485.0 | 689.7 | 11.25 |
| 6,877.0 | 73.70 | 180.70 | 6,638.6 | -695.9 | 485.2 | 732.1 | 12.99 |
| 6,922.0 | 79.30 | 181.70 | 6,649.1 | -739.6 | 484.3 | 775.6 | 12.63 |
| 6,945.0 | 82.70 | 181.70 | 6,652.7 | -762.3 | 483.6 | 798.2 | 14.78 |
| 7,039.0 | 84.60 | 181.40 | 6,663.1 | -855.7 | 481.1 | 891.1 | 2.05 |
| 7,070.0 | 84.90 | 181.60 | 6,665.9 | -886.6 | 480.3 | 921.8 | 1.16 |
| 7,101.0 | 85.50 | 181.10 | 6,668.5 | -917.5 | 479.6 | 952.5 | 2.52 |
| 7,133.0 | 86.90 | 181.20 | 6,670.6 | -949.4 | 478.9 | 984.3 | 4.39 |
| 7,164.0 | 88.50 | 181.10 | 6,671.9 | -980.3 | 478.3 | 1,015.1 | 5.17 |
| 7,195.0 | 89.80 | 180.90 | 6,672.3 | -1,011.3 | 477.8 | 1,046.0 | 4.24 |
| 7,226.0 | 90.80 | 180.80 | 6,672.2 | -1,042.3 | 477.3 | 1,076.8 | 3.24 |
| 7,277.0 | 90.96 | 180.42 | 6,671.4 | -1,093.3 | 476.8 | 1,127.6 | 0.81 |
| Mahalo State AA09-74-1AHNC Landing Pt. | | | | | | | |
| 7,320.0 | 91.10 | 180.10 | 6,670.6 | -1,136.3 | 476.6 | 1,170.4 | 0.81 |
| 7,413.0 | 89.80 | 180.30 | 6,669.9 | -1,229.3 | 476.3 | 1,263.1 | 1.41 |
| 7,507.0 | 90.90 | 180.20 | 6,669.3 | -1,323.3 | 475.8 | 1,356.8 | 1.18 |
| 7,599.0 | 90.20 | 180.00 | 6,668.4 | -1,415.3 | 475.7 | 1,448.5 | 0.79 |
| 7,720.0 | 90.70 | 178.30 | 6,667.5 | -1,536.3 | 477.5 | 1,569.2 | 1.46 |
| 7,810.0 | 92.00 | 176.70 | 6,665.3 | -1,626.2 | 481.4 | 1,659.1 | 2.29 |
| 7,899.0 | 90.90 | 176.90 | 6,663.1 | -1,715.0 | 486.4 | 1,748.1 | 1.26 |
| 7,989.0 | 88.80 | 179.10 | 6,663.3 | -1,804.9 | 489.5 | 1,838.0 | 3.38 |

| | | | |
|------------------|---|-------------------------------------|------------------------------------|
| Company: | Noble Energy Inc.- Weld County, CO (Grid North) | Local Co-ordinate Reference: | Well Mahalo State AA09-74-1AHNC |
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| Site: | Mahalo State AA09-75HNC Pad Sec.4-T6N-R63W | MD Reference: | WELL @ 4710.0ft (PD 829 RKB - 16') |
| Well: | Mahalo State AA09-74-1AHNC | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | |
|------------------------|--------------------|----------------|------------------------|---------------|---------------|--------------------------|--------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) |
| 8,078.0 | 87.90 | 181.30 | 6,665.9 | -1,893.9 | 489.2 | 1,926.6 | 2.67 |
| 8,168.0 | 88.40 | 182.60 | 6,668.8 | -1,983.8 | 486.1 | 2,016.0 | 1.55 |
| 8,258.0 | 88.00 | 182.40 | 6,671.6 | -2,073.7 | 482.2 | 2,105.3 | 0.50 |
| 8,347.0 | 87.90 | 182.10 | 6,674.8 | -2,162.5 | 478.7 | 2,193.6 | 0.36 |
| 8,437.0 | 90.20 | 180.80 | 6,676.3 | -2,252.5 | 476.4 | 2,283.1 | 2.94 |
| 8,527.0 | 90.30 | 180.90 | 6,675.9 | -2,342.5 | 475.1 | 2,372.7 | 0.16 |
| 8,616.0 | 90.50 | 180.40 | 6,675.3 | -2,431.5 | 474.1 | 2,461.3 | 0.61 |
| 8,706.0 | 89.40 | 179.90 | 6,675.4 | -2,521.5 | 473.9 | 2,551.0 | 1.34 |
| 8,796.0 | 89.00 | 179.50 | 6,676.6 | -2,611.4 | 474.3 | 2,640.8 | 0.63 |
| 8,886.0 | 89.10 | 179.50 | 6,678.1 | -2,701.4 | 475.1 | 2,730.5 | 0.11 |
| 8,975.0 | 90.40 | 178.80 | 6,678.5 | -2,790.4 | 476.4 | 2,819.4 | 1.66 |
| 9,065.0 | 90.20 | 180.40 | 6,678.0 | -2,880.4 | 477.1 | 2,909.1 | 1.79 |
| 9,154.0 | 90.60 | 180.10 | 6,677.4 | -2,969.4 | 476.7 | 2,997.8 | 0.56 |
| 9,244.0 | 90.50 | 179.90 | 6,676.5 | -3,059.4 | 476.7 | 3,087.5 | 0.25 |
| 9,334.0 | 90.70 | 179.30 | 6,675.6 | -3,149.4 | 477.3 | 3,177.3 | 0.70 |
| 9,423.0 | 90.60 | 180.90 | 6,674.6 | -3,238.4 | 477.2 | 3,266.0 | 1.80 |
| 9,513.0 | 89.80 | 180.90 | 6,674.3 | -3,328.4 | 475.7 | 3,355.6 | 0.89 |
| 9,603.0 | 89.20 | 180.50 | 6,675.1 | -3,418.4 | 474.6 | 3,445.2 | 0.80 |
| 9,692.0 | 88.90 | 181.40 | 6,676.5 | -3,507.3 | 473.2 | 3,533.8 | 1.07 |
| 9,782.0 | 89.90 | 182.40 | 6,677.5 | -3,597.3 | 470.2 | 3,623.2 | 1.57 |
| 9,871.0 | 90.10 | 182.40 | 6,677.5 | -3,686.2 | 466.5 | 3,711.5 | 0.22 |
| 9,961.0 | 90.90 | 183.00 | 6,676.7 | -3,776.1 | 462.2 | 3,800.8 | 1.11 |
| 10,051.0 | 90.90 | 182.50 | 6,675.3 | -3,866.0 | 457.9 | 3,890.1 | 0.56 |
| 10,140.0 | 90.70 | 183.30 | 6,674.0 | -3,954.9 | 453.4 | 3,978.3 | 0.93 |
| 10,230.0 | 90.90 | 181.30 | 6,672.8 | -4,044.8 | 449.8 | 4,067.7 | 2.23 |
| 10,319.0 | 90.60 | 180.70 | 6,671.6 | -4,133.8 | 448.2 | 4,156.3 | 0.75 |
| 10,409.0 | 90.30 | 180.40 | 6,670.9 | -4,223.7 | 447.4 | 4,245.9 | 0.47 |
| 10,498.0 | 90.20 | 180.20 | 6,670.5 | -4,312.7 | 446.9 | 4,334.6 | 0.25 |
| 10,588.0 | 91.00 | 181.10 | 6,669.6 | -4,402.7 | 445.9 | 4,424.2 | 1.34 |
| 10,677.0 | 91.60 | 182.30 | 6,667.6 | -4,491.7 | 443.2 | 4,512.7 | 1.51 |
| 10,767.0 | 91.40 | 180.90 | 6,665.2 | -4,581.6 | 440.7 | 4,602.1 | 1.57 |
| 10,857.0 | 90.10 | 178.50 | 6,664.0 | -4,671.6 | 441.2 | 4,691.8 | 3.03 |
| 10,946.0 | 90.80 | 175.10 | 6,663.3 | -4,760.4 | 446.2 | 4,780.8 | 3.90 |
| 11,036.0 | 90.30 | 176.60 | 6,662.5 | -4,850.2 | 452.7 | 4,870.8 | 1.76 |
| 11,126.0 | 90.50 | 178.00 | 6,661.8 | -4,940.1 | 456.9 | 4,960.7 | 1.57 |
| 11,215.0 | 90.00 | 178.30 | 6,661.4 | -5,029.0 | 459.8 | 5,049.6 | 0.66 |
| 11,305.0 | 90.20 | 178.70 | 6,661.3 | -5,119.0 | 462.2 | 5,139.5 | 0.50 |
| 11,394.0 | 90.40 | 178.80 | 6,660.8 | -5,208.0 | 464.1 | 5,228.4 | 0.25 |
| 11,419.0 | 90.50 | 178.40 | 6,660.6 | -5,233.0 | 464.7 | 5,253.3 | 1.65 |
| 11,481.0 | 90.50 | 178.40 | 6,660.1 | -5,294.9 | 466.4 | 5,315.2 | 0.00 |

Mahalo State AA09-74-1AHNC BHL 30'FNL & 1860'FEL

Checked By: _____ Approved By: _____ Date: _____