



Noble Energy Inc.

Weld County, CO

Sec 22, T9N, R58W, 6th PM

Fiscus LD22-76HN

Wellbore #1

Survey: MWD **FINAL**

DDC Survey Report

26 July, 2012



| | | | |
|-----------|---------------------------|------------------------------|------------------------------|
| Company: | Noble Energy Inc. | Local Co-ordinate Reference: | Well Fiscus LD22-76HN |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4853.0usft (H&P #326) |
| Site: | Sec 22, T9N, R58W, 6th PM | MD Reference: | WELL @ 4853.0usft (H&P #326) |
| Well: | Fiscus LD22-76HN | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| | | | |
|-------------|---------------------------|---------------|----------------|
| Project | Weld County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | |
|------|---------------------------|
| Site | Sec 22, T9N, R58W, 6th PM |
|------|---------------------------|

| | | | | | |
|-----------------------|----------|--------------|-------------------|-------------------|------------------|
| Site Position: | | Northing: | 1,513,350.45 usft | Latitude: | 40° 43' 51.140 N |
| From: | Map | Easting: | 3,456,997.20 usft | Longitude: | 103° 51' 3.580 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 1.07 ° |

| | | | | | | |
|----------------------|------------------|---------------------|-----------|-------------------|--------------|------------------|
| Well | Fiscus LD22-76HN | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 1,513,350.45 usft | Latitude: | 40° 43' 51.140 N |
| | +E/-W | 0.0 usft | Easting: | 3,456,997.20 usft | Longitude: | 103° 51' 3.580 W |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 4,823.0 usft | |

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|----------|-------------|
| Wellbore | Wellbore #1 |
|----------|-------------|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| | IGRF2010 | 7/3/2012 | 8.25 | 67.43 | 53,287 |

| | |
|--------|-------------|
| Design | Wellbore #1 |
|--------|-------------|

| | | | | | |
|--------------|-----|--------|--------|---------------|-----|
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|---------------|
| | 0.0 | 0.0 | 0.0 | 353.53 |

| Survey Program | | Date | 7/26/2012 | |
|----------------|-----------|-------------------|-------------|----------------|
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 1,688.0 | 10,079.0 | MWD (Wellbore #1) | MWD default | MWD - Standard |

| Survey | Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-------------------------------|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| TIE IN @ 1610' MD / 1610' TVD | | | | | | | | | | |
| | 1,610.0 | 0.00 | 0.00 | 1,610.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | 1,688.0 | 2.30 | 257.00 | 1,688.0 | -0.4 | -1.5 | -0.2 | 2.95 | 2.95 | 0.00 |
| | 1,781.0 | 3.90 | 230.40 | 1,780.8 | -2.8 | -5.8 | -2.1 | 2.27 | 1.72 | -28.60 |
| | 1,876.0 | 6.20 | 221.50 | 1,875.5 | -8.7 | -11.7 | -7.3 | 2.55 | 2.42 | -9.37 |
| | 1,969.0 | 7.40 | 218.50 | 1,967.8 | -17.1 | -18.7 | -14.9 | 1.35 | 1.29 | -3.23 |
| | 2,063.0 | 9.00 | 216.50 | 2,060.9 | -27.8 | -26.9 | -24.6 | 1.73 | 1.70 | -2.13 |
| | 2,155.0 | 8.60 | 213.00 | 2,151.8 | -39.3 | -34.9 | -35.2 | 0.73 | -0.43 | -3.80 |
| | 2,249.0 | 14.10 | 213.70 | 2,243.9 | -54.8 | -45.1 | -49.3 | 5.85 | 5.85 | 0.74 |
| | 2,343.0 | 15.10 | 220.10 | 2,334.9 | -73.7 | -59.3 | -66.5 | 2.02 | 1.06 | 6.81 |
| | 2,436.0 | 15.40 | 218.30 | 2,424.6 | -92.6 | -74.8 | -83.6 | 0.60 | 0.32 | -1.94 |

| | | | |
|-----------|---------------------------|------------------------------|------------------------------|
| Company: | Noble Energy Inc. | Local Co-ordinate Reference: | Well Fiscus LD22-76HN |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4853.0usft (H&P #326) |
| Site: | Sec 22, T9N, R58W, 6th PM | MD Reference: | WELL @ 4853.0usft (H&P #326) |
| Well: | Fiscus LD22-76HN | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 2,528.0 | 16.60 | 219.70 | 2,513.0 | -112.3 | -90.7 | -101.4 | 1.37 | 1.30 | 1.52 |
| 2,620.0 | 17.00 | 219.40 | 2,601.1 | -132.8 | -107.7 | -119.8 | 0.44 | 0.43 | -0.33 |
| 2,712.0 | 16.10 | 223.70 | 2,689.3 | -152.4 | -125.0 | -137.4 | 1.65 | -0.98 | 4.67 |
| 2,806.0 | 15.50 | 223.70 | 2,779.7 | -170.9 | -142.7 | -153.8 | 0.64 | -0.64 | 0.00 |
| 2,900.0 | 14.30 | 222.70 | 2,870.6 | -188.6 | -159.3 | -169.4 | 1.31 | -1.28 | -1.06 |
| 2,995.0 | 15.00 | 225.70 | 2,962.5 | -205.8 | -176.0 | -184.6 | 1.09 | 0.74 | 3.16 |
| 3,090.0 | 12.40 | 226.60 | 3,054.8 | -221.4 | -192.2 | -198.3 | 2.75 | -2.74 | 0.95 |
| 3,185.0 | 13.60 | 217.80 | 3,147.3 | -237.2 | -206.5 | -212.4 | 2.43 | 1.26 | -9.26 |
| 3,280.0 | 16.00 | 213.20 | 3,239.2 | -257.0 | -220.5 | -230.5 | 2.81 | 2.53 | -4.84 |
| 3,375.0 | 16.60 | 213.00 | 3,330.4 | -279.3 | -235.1 | -251.1 | 0.63 | 0.63 | -0.21 |
| 3,470.0 | 15.90 | 218.50 | 3,421.6 | -300.9 | -250.6 | -270.7 | 1.78 | -0.74 | 5.79 |
| 3,566.0 | 16.90 | 218.60 | 3,513.7 | -322.1 | -267.5 | -289.9 | 1.04 | 1.04 | 0.10 |
| 3,661.0 | 16.00 | 221.30 | 3,604.8 | -342.7 | -284.7 | -308.4 | 1.24 | -0.95 | 2.84 |
| 3,756.0 | 13.70 | 221.60 | 3,696.6 | -361.0 | -300.8 | -324.8 | 2.42 | -2.42 | 0.32 |
| 3,851.0 | 10.60 | 219.70 | 3,789.5 | -376.1 | -313.9 | -338.3 | 3.29 | -3.26 | -2.00 |
| 3,946.0 | 8.20 | 215.80 | 3,883.2 | -388.3 | -323.4 | -349.4 | 2.61 | -2.53 | -4.11 |
| 4,041.0 | 7.10 | 216.70 | 3,977.3 | -398.5 | -330.9 | -358.7 | 1.16 | -1.16 | 0.95 |
| 4,136.0 | 6.30 | 219.40 | 4,071.7 | -407.3 | -337.7 | -366.6 | 0.90 | -0.84 | 2.84 |
| 4,231.0 | 4.70 | 229.50 | 4,166.3 | -413.8 | -344.0 | -372.4 | 1.96 | -1.68 | 10.63 |
| 4,326.0 | 3.10 | 254.70 | 4,261.0 | -417.0 | -349.4 | -375.0 | 2.43 | -1.68 | 26.53 |
| 4,421.0 | 1.40 | 355.00 | 4,356.0 | -416.5 | -352.0 | -374.2 | 3.81 | -1.79 | 105.58 |
| 4,516.0 | 3.10 | 14.00 | 4,450.9 | -412.9 | -351.5 | -370.7 | 1.93 | 1.79 | 20.00 |
| 4,611.0 | 3.20 | 30.00 | 4,545.8 | -408.1 | -349.5 | -366.1 | 0.93 | 0.11 | 16.84 |
| 4,706.0 | 1.30 | 53.40 | 4,640.7 | -405.2 | -347.3 | -363.4 | 2.18 | -2.00 | 24.63 |
| 4,801.0 | 1.50 | 49.70 | 4,735.7 | -403.7 | -345.5 | -362.2 | 0.23 | 0.21 | -3.89 |
| 4,896.0 | 1.30 | 51.10 | 4,830.6 | -402.2 | -343.7 | -360.9 | 0.21 | -0.21 | 1.47 |
| 4,991.0 | 1.40 | 56.80 | 4,925.6 | -400.9 | -341.9 | -359.8 | 0.18 | 0.11 | 6.00 |
| 5,085.0 | 1.20 | 50.80 | 5,019.6 | -399.7 | -340.2 | -358.8 | 0.26 | -0.21 | -6.38 |
| 5,180.0 | 5.30 | 353.50 | 5,114.4 | -394.7 | -339.9 | -353.9 | 5.01 | 4.32 | -60.32 |
| 5,225.0 | 9.40 | 344.50 | 5,159.0 | -389.1 | -341.1 | -348.2 | 9.44 | 9.11 | -20.00 |
| 5,275.0 | 14.30 | 348.00 | 5,208.0 | -379.1 | -343.5 | -338.0 | 9.90 | 9.80 | 7.00 |
| 5,320.0 | 18.20 | 352.20 | 5,251.2 | -366.7 | -345.6 | -325.4 | 9.05 | 8.67 | 9.33 |
| 5,370.0 | 21.90 | 353.50 | 5,298.1 | -349.7 | -347.7 | -308.3 | 7.45 | 7.40 | 2.60 |
| 5,415.0 | 24.80 | 352.80 | 5,339.4 | -332.0 | -349.9 | -290.4 | 6.47 | 6.44 | -1.56 |
| 5,465.0 | 26.50 | 352.80 | 5,384.5 | -310.5 | -352.6 | -268.8 | 3.40 | 3.40 | 0.00 |
| 5,510.0 | 27.70 | 356.30 | 5,424.6 | -290.1 | -354.5 | -248.3 | 4.43 | 2.67 | 7.78 |
| 5,560.0 | 29.40 | 1.40 | 5,468.5 | -266.2 | -355.0 | -224.5 | 5.94 | 3.40 | 10.20 |
| 5,605.0 | 33.30 | 359.80 | 5,506.9 | -242.8 | -354.8 | -201.3 | 8.86 | 8.67 | -3.56 |
| 5,655.0 | 38.70 | 356.80 | 5,547.4 | -213.5 | -355.7 | -172.0 | 11.36 | 10.80 | -6.00 |
| 5,700.0 | 43.80 | 355.80 | 5,581.2 | -183.9 | -357.6 | -142.4 | 11.43 | 11.33 | -2.22 |
| 5,750.0 | 49.20 | 355.40 | 5,615.6 | -147.7 | -360.4 | -106.2 | 10.82 | 10.80 | -0.80 |
| 5,795.0 | 54.50 | 355.60 | 5,643.4 | -112.5 | -363.2 | -70.8 | 11.78 | 11.78 | 0.44 |
| 5,845.0 | 59.20 | 356.50 | 5,670.7 | -70.7 | -366.0 | -29.0 | 9.52 | 9.40 | 1.80 |

| | | | |
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| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,890.0 | 62.10 | 356.50 | 5,692.8 | -31.6 | -368.4 | 10.1 | 6.44 | 6.44 | 0.00 |
| 5,940.0 | 65.10 | 356.60 | 5,715.0 | 13.1 | -371.1 | 54.9 | 6.00 | 6.00 | 0.20 |
| 5,985.0 | 67.00 | 358.60 | 5,733.3 | 54.2 | -372.8 | 95.9 | 5.86 | 4.22 | 4.44 |
| CROSSED HARD LINE @ 6023' MD / 5747' TVD | | | | | | | | | |
| 6,022.5 | 70.74 | 1.40 | 5,746.8 | 89.2 | -372.8 | 130.6 | 12.17 | 9.98 | 7.46 |
| 6,035.0 | 72.00 | 2.30 | 5,750.8 | 101.0 | -372.4 | 142.3 | 12.17 | 10.06 | 7.22 |
| 6,080.0 | 77.90 | 3.30 | 5,762.4 | 144.4 | -370.3 | 185.2 | 13.29 | 13.11 | 2.22 |
| 6,130.0 | 83.80 | 2.30 | 5,770.4 | 193.7 | -367.9 | 233.9 | 11.96 | 11.80 | -2.00 |
| 6,182.0 | 87.80 | 1.70 | 5,774.2 | 245.5 | -366.1 | 285.2 | 7.78 | 7.69 | -1.15 |
| 6,266.0 | 90.50 | 2.10 | 5,775.4 | 329.4 | -363.3 | 368.3 | 3.25 | 3.21 | 0.48 |
| 6,361.0 | 91.50 | 1.50 | 5,773.8 | 424.4 | -360.3 | 462.3 | 1.23 | 1.05 | -0.63 |
| 6,456.0 | 90.80 | 0.90 | 5,771.9 | 519.3 | -358.3 | 556.4 | 0.97 | -0.74 | -0.63 |
| 6,551.0 | 89.90 | 0.30 | 5,771.3 | 614.3 | -357.4 | 650.7 | 1.14 | -0.95 | -0.63 |
| 6,646.0 | 90.80 | 0.50 | 5,770.7 | 709.3 | -356.7 | 745.0 | 0.97 | 0.95 | 0.21 |
| 6,741.0 | 90.00 | 359.10 | 5,770.1 | 804.3 | -357.0 | 839.4 | 1.70 | -0.84 | -1.47 |
| 6,836.0 | 88.70 | 0.50 | 5,771.1 | 899.3 | -357.4 | 933.9 | 2.01 | -1.37 | 1.47 |
| 6,931.0 | 89.30 | 0.50 | 5,772.8 | 994.3 | -356.5 | 1,028.1 | 0.63 | 0.63 | 0.00 |
| 7,027.0 | 90.20 | 0.30 | 5,773.2 | 1,090.3 | -355.9 | 1,123.4 | 0.96 | 0.94 | -0.21 |
| 7,122.0 | 91.50 | 0.30 | 5,771.8 | 1,185.3 | -355.4 | 1,217.8 | 1.37 | 1.37 | 0.00 |
| 7,217.0 | 89.00 | 358.90 | 5,771.4 | 1,280.3 | -356.0 | 1,312.2 | 3.02 | -2.63 | -1.47 |
| 7,312.0 | 88.80 | 356.30 | 5,773.2 | 1,375.2 | -360.0 | 1,407.0 | 2.74 | -0.21 | -2.74 |
| 7,407.0 | 89.50 | 356.80 | 5,774.6 | 1,470.0 | -365.7 | 1,501.8 | 0.91 | 0.74 | 0.53 |
| 7,502.0 | 90.80 | 356.30 | 5,774.4 | 1,564.8 | -371.4 | 1,596.7 | 1.47 | 1.37 | -0.53 |
| 7,597.0 | 90.70 | 356.50 | 5,773.1 | 1,659.6 | -377.4 | 1,691.6 | 0.24 | -0.11 | 0.21 |
| 7,692.0 | 90.60 | 0.00 | 5,772.1 | 1,754.5 | -380.3 | 1,786.2 | 3.69 | -0.11 | 3.68 |
| 7,787.0 | 89.40 | 359.50 | 5,772.1 | 1,849.5 | -380.7 | 1,880.6 | 1.37 | -1.26 | -0.53 |
| 7,882.0 | 89.90 | 0.00 | 5,772.6 | 1,944.5 | -381.1 | 1,975.1 | 0.74 | 0.53 | 0.53 |
| 7,977.0 | 90.80 | 0.20 | 5,772.1 | 2,039.5 | -381.0 | 2,069.5 | 0.97 | 0.95 | 0.21 |
| 8,072.0 | 88.40 | 358.60 | 5,772.7 | 2,134.5 | -382.0 | 2,164.0 | 3.04 | -2.53 | -1.68 |
| 8,167.0 | 89.20 | 357.70 | 5,774.7 | 2,229.4 | -385.0 | 2,258.6 | 1.27 | 0.84 | -0.95 |
| 8,262.0 | 90.00 | 358.20 | 5,775.4 | 2,324.4 | -388.4 | 2,353.3 | 0.99 | 0.84 | 0.53 |
| 8,357.0 | 90.70 | 357.30 | 5,774.8 | 2,419.3 | -392.1 | 2,448.1 | 1.20 | 0.74 | -0.95 |
| 8,452.0 | 90.50 | 358.90 | 5,773.8 | 2,514.2 | -395.3 | 2,542.8 | 1.70 | -0.21 | 1.68 |
| 8,547.0 | 88.80 | 0.50 | 5,774.4 | 2,609.2 | -395.8 | 2,637.2 | 2.46 | -1.79 | 1.68 |
| 8,642.0 | 89.30 | 0.20 | 5,776.0 | 2,704.2 | -395.2 | 2,731.5 | 0.61 | 0.53 | -0.32 |
| 8,737.0 | 89.90 | 1.00 | 5,776.6 | 2,799.2 | -394.2 | 2,825.8 | 1.05 | 0.63 | 0.84 |
| 8,832.0 | 90.50 | 1.50 | 5,776.3 | 2,894.2 | -392.1 | 2,919.9 | 0.82 | 0.63 | 0.53 |
| 8,927.0 | 91.00 | 359.30 | 5,775.0 | 2,989.2 | -391.5 | 3,014.2 | 2.37 | 0.53 | -2.32 |
| 9,022.0 | 91.00 | 359.80 | 5,773.4 | 3,084.1 | -392.2 | 3,108.7 | 0.53 | 0.00 | 0.53 |
| 9,117.0 | 89.60 | 359.50 | 5,772.9 | 3,179.1 | -392.8 | 3,203.1 | 1.51 | -1.47 | -0.32 |
| 9,212.0 | 90.00 | 358.70 | 5,773.2 | 3,274.1 | -394.3 | 3,297.7 | 0.94 | 0.42 | -0.84 |
| 9,307.0 | 90.50 | 359.10 | 5,772.8 | 3,369.1 | -396.1 | 3,392.3 | 0.67 | 0.53 | 0.42 |
| 9,402.0 | 91.20 | 359.10 | 5,771.4 | 3,464.1 | -397.6 | 3,486.8 | 0.74 | 0.74 | 0.00 |

| | | | |
|-----------|---------------------------|------------------------------|------------------------------|
| Company: | Noble Energy Inc. | Local Co-ordinate Reference: | Well Fiscus LD22-76HN |
| Project: | Weld County, CO | TVD Reference: | WELL @ 4853.0usft (H&P #326) |
| Site: | Sec 22, T9N, R58W, 6th PM | MD Reference: | WELL @ 4853.0usft (H&P #326) |
| Well: | Fiscus LD22-76HN | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

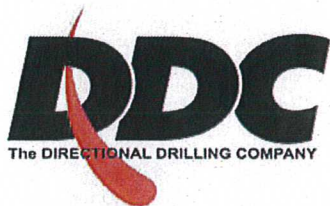
Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 9,497.0 | 90.00 | 358.40 | 5,770.4 | 3,559.0 | -399.7 | 3,581.4 | 1.46 | -1.26 | -0.74 |
| 9,592.0 | 89.70 | 358.40 | 5,770.6 | 3,654.0 | -402.3 | 3,676.1 | 0.32 | -0.32 | 0.00 |
| 9,687.0 | 89.20 | 358.20 | 5,771.6 | 3,749.0 | -405.2 | 3,770.7 | 0.57 | -0.53 | -0.21 |
| 9,782.0 | 89.70 | 358.20 | 5,772.5 | 3,843.9 | -408.1 | 3,865.4 | 0.53 | 0.53 | 0.00 |
| 9,877.0 | 90.80 | 358.70 | 5,772.1 | 3,938.9 | -410.7 | 3,960.1 | 1.27 | 1.16 | 0.53 |
| 9,972.0 | 91.30 | 359.10 | 5,770.3 | 4,033.8 | -412.5 | 4,054.6 | 0.67 | 0.53 | 0.42 |
| 10,022.0 | 92.50 | 359.80 | 5,768.7 | 4,083.8 | -413.0 | 4,104.3 | 2.78 | 2.40 | 1.40 |
| TD @ 10079' MD / 5766' TVD | | | | | | | | | |
| 10,079.0 | 92.50 | 359.80 | 5,766.2 | 4,140.8 | -413.2 | 4,160.9 | 0.00 | 0.00 | 0.00 |

Survey Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|--|
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,610.0 | 1,610.0 | 0.0 | 0.0 | TIE IN @ 1610' MD / 1610' TVD |
| 6,022.5 | 5,746.8 | 89.2 | -372.8 | CROSSED HARD LINE @ 6023' MD / 5747' TVD |
| 10,079.0 | 5,766.2 | 4,140.8 | -413.2 | TD @ 10079' MD / 5766' TVD |

Checked By: _____ Approved By: _____ Date: _____



Survey Certification Sheet

Noble Energy
Company

RM-12507
Job Number

7/26/2012
Date

Sec 22, T9N, R58W, 6th PM
Lease

Fiscus LD22-76HN
Well Name

Weld, CO
County & State

Surveyed from a depth of:

1610 feet to 10079 feet MD

Type of Survey:

MWD

Directional Supervisor/Surveyor:

Kurt Buresh

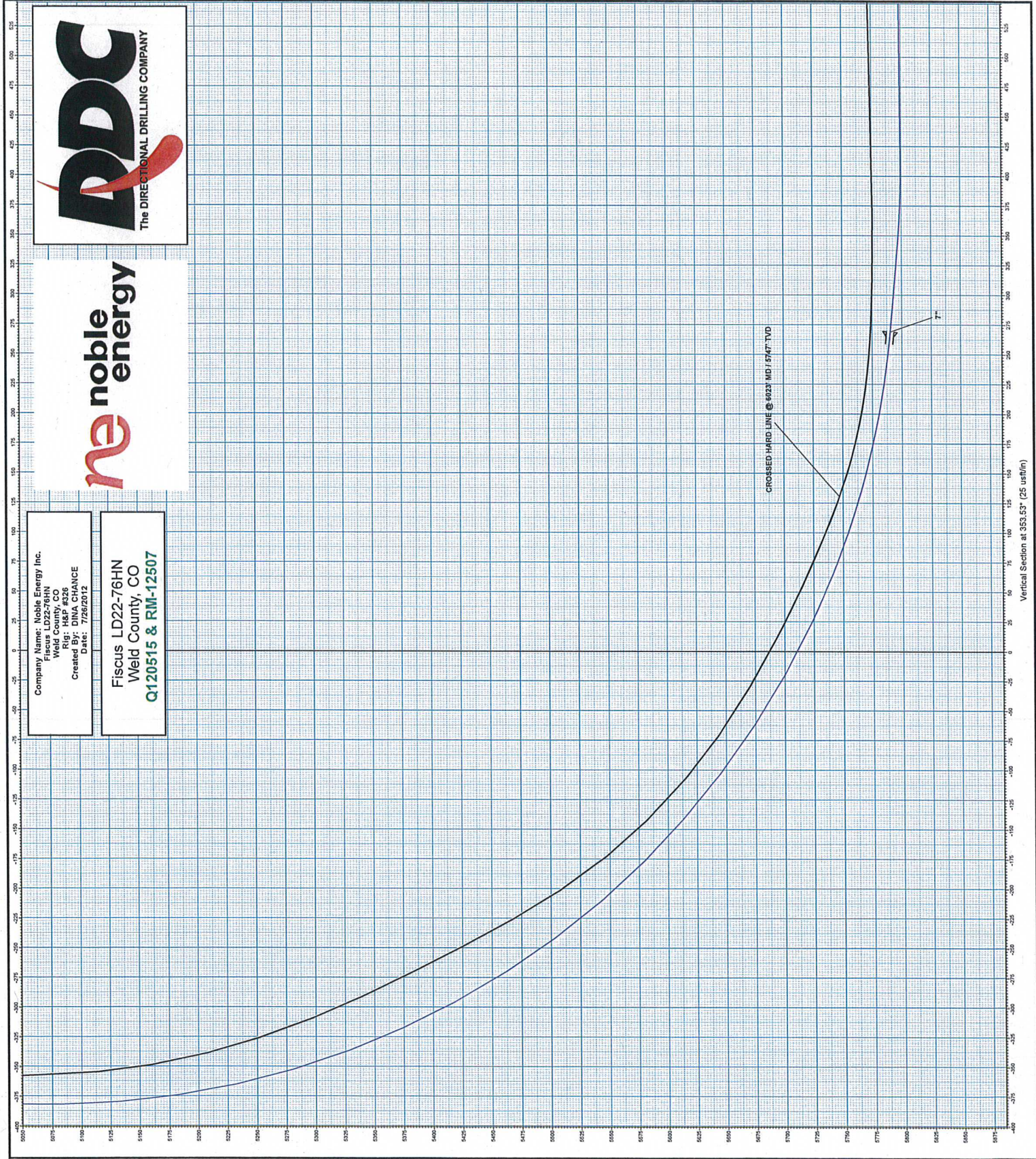
The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by **The Directional Drilling Company (DDC)**. This report represents a true and correct Directional survey of this well based on the original data obtained at the well site. Wellbore Coordinates are calculated using minimum curvature.

Digitally signed by Larry Wright
DN: cn=Larry Wright, o=The
Directional Drilling Company,
ou=GM of Guidance Services,
email=larryw@directionaldrillers
.com, c=US
Date: 2012.07.26 14:37:39 -05'00'

Larry Wright
MWD General Manager

Company Name: Noble Energy Inc.
Fiscus LD22-76HN
Weld County, CO
Rig: H&P #326
Created By: DINA CHANCE
Date: 7/26/2012

Fiscus LD22-76HN
Weld County, CO
Q120515 & RM-12507

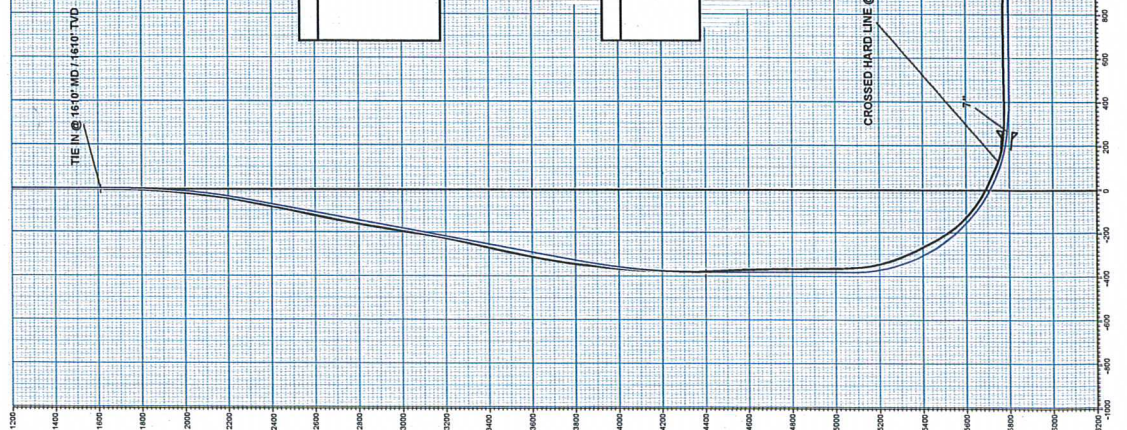


Vertical Section at 353.53° (25 usft/m)

Company Name: Noble Energy Inc.
Fiscus LD22-76HN
Weld County, CO
Rig: H&P #328
Created By: DINA CHANCE
Date: 7/26/2012

Fiscus LD22-76HN
Weld County, CO
Q120515 & RM-12507
Design #1

PROJECT DETAILS: Weld County, CO
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level



| WELL DETAILS: Fiscus LD22-76HN | | | |
|--------------------------------|------|---------------|------------------|
| +NUS | +E/W | Ground Level: | |
| 0.0 | 0.0 | Northing | 4823.0 |
| | | Eastings | 151350.45 |
| | | Latitude | 40° 43' 51.146 N |
| | | Longitude | 103° 51' 3.580 W |

| ANNOTATIONS | | | | | |
|-----------------------------------|-------|--------|--------|--------|--------|
| MD | Inc | Adj | TVD | +NUS | +E/W |
| 6022.5 | 70.74 | 1.40 | 5748.8 | 88.2 | -372.8 |
| 10073.0 | 92.50 | 353.80 | 5786.2 | 4160.3 | -411.2 |
| 10073.0 TD @ 1007' MD / 5768' TVD | | | | | |

| DESIGN TARGET DETAILS | | | | | |
|--------------------------------|--------|--------|------------|------------------|------------------|
| Name | MD | Inc | TVD | +NUS | +E/W |
| TIE IN @ 1610' MD / 1510' TVD | 1610.0 | 0.0 | 1510.0 | 40° 43' 51.140 N | 103° 51' 3.580 W |
| VP Fiscus LD22-76HN | 4000.0 | -426.0 | 151252.45 | 3456531.20 | 40° 43' 46.599 N |
| PBNA - plan this target center | 5772.9 | 4195.2 | 1517486.59 | 3456528.43 | 40° 44' 12.080 N |
| PBNA - plan this target center | 5772.9 | 4195.2 | 1517486.59 | 3456528.43 | 40° 44' 12.080 N |

