

Noble Energy (Rockies)

Garfield County, CO

Sec. 35-T7S-R95W (SGV 35D2 PAD)

BM 35-12A - A 9

Wellbore #1

Plan: Plan #1 Proposal

Sperry Drilling Services Proposal Report

21 October, 2009

Well Coordinates: 579,137.23 N, 1,301,236.13 E (39° 23' 50.68" N, 107° 58' 22.45" W)

Ground Level: 8,846.00 ft

Local Coordinate Origin:

Centered on Well BM 35-12A - Slot A 9

Viewing Datum:

RKB - 24' @ 8870.00ft

TVDs to System:

N

North Reference:

Grid

Unit System:

API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

HALLIBURTON

Plan Report for BM 35-12A - Plan #1 Proposal

| 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) | Toolface Azimuth (°) |
|--|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|----------------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BM 35-12A 100' FNL Hardline Tgt | | | | | | | | | | |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225.00 | 0.00 | 0.00 | 225.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Kickoff at 225.00ft | | | | | | | | | | |
| 300.00 | 1.50 | 105.83 | 299.99 | -0.27 | 0.94 | 0.98 | 2.00 | 2.00 | 0.00 | 105.83 |
| 345.00 | 2.40 | 105.83 | 344.96 | -0.69 | 2.42 | 2.51 | 2.00 | 2.00 | 0.00 | 0.00 |
| Build Rate = 2.00°/100ft | | | | | | | | | | |
| 400.00 | 3.50 | 105.83 | 399.89 | -1.46 | 5.14 | 5.34 | 2.00 | 2.00 | 0.00 | 0.00 |
| 471.97 | 4.94 | 105.83 | 471.66 | -2.90 | 10.24 | 10.62 | 2.00 | 2.00 | 0.00 | 0.00 |
| End Build at 470.32ft | | | | | | | | | | |
| 500.00 | 4.94 | 105.83 | 499.59 | -3.56 | 12.56 | 13.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 4.94 | 105.83 | 599.22 | -5.91 | 20.84 | 21.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 4.94 | 105.83 | 698.85 | -8.26 | 29.12 | 30.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 4.94 | 105.83 | 798.48 | -10.61 | 37.41 | 38.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 4.94 | 105.83 | 898.10 | -12.96 | 45.69 | 47.43 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 4.94 | 105.83 | 997.73 | -15.30 | 53.98 | 56.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 4.94 | 105.83 | 1,097.36 | -17.65 | 62.26 | 64.63 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 4.94 | 105.83 | 1,196.99 | -20.00 | 70.54 | 73.23 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 4.94 | 105.83 | 1,296.62 | -22.35 | 78.83 | 81.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 4.94 | 105.83 | 1,396.25 | -24.70 | 87.11 | 90.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 4.94 | 105.83 | 1,495.88 | -27.05 | 95.39 | 99.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 4.94 | 105.83 | 1,595.51 | -29.40 | 103.68 | 107.62 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 4.94 | 105.83 | 1,695.13 | -31.74 | 111.96 | 116.22 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 4.94 | 105.83 | 1,794.76 | -34.09 | 120.24 | 124.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 4.94 | 105.83 | 1,894.39 | -36.44 | 128.53 | 133.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 4.94 | 105.83 | 1,994.02 | -38.79 | 136.81 | 142.02 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 4.94 | 105.83 | 2,093.65 | -41.14 | 145.10 | 150.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 4.94 | 105.83 | 2,193.28 | -43.49 | 153.38 | 159.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 4.94 | 105.83 | 2,292.91 | -45.84 | 161.66 | 167.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,380.00 | 4.94 | 105.83 | 2,372.61 | -47.72 | 168.29 | 174.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 5/8" Casing Pt. | | | | | | | | | | |
| 2,400.00 | 4.94 | 105.83 | 2,392.53 | -48.19 | 169.95 | 176.41 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 4.94 | 105.83 | 2,492.16 | -50.53 | 178.23 | 185.01 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 4.94 | 105.83 | 2,591.79 | -52.88 | 186.51 | 193.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 4.94 | 105.83 | 2,691.42 | -55.23 | 194.80 | 202.21 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 4.94 | 105.83 | 2,791.05 | -57.58 | 203.08 | 210.81 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 4.94 | 105.83 | 2,890.68 | -59.93 | 211.37 | 219.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 4.94 | 105.83 | 2,990.31 | -62.28 | 219.65 | 228.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 4.94 | 105.83 | 3,089.93 | -64.63 | 227.93 | 236.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 4.94 | 105.83 | 3,189.56 | -66.97 | 236.22 | 245.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 4.94 | 105.83 | 3,289.19 | -69.32 | 244.50 | 253.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 4.94 | 105.83 | 3,388.82 | -71.67 | 252.78 | 262.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,470.00 | 4.94 | 105.83 | 3,458.56 | -73.32 | 258.58 | 268.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4.94 Inclination | | | | | | | | | | |
| 3,500.00 | 4.94 | 105.83 | 3,488.45 | -74.02 | 261.07 | 271.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 4.94 | 105.83 | 3,588.08 | -76.37 | 269.35 | 279.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 4.94 | 105.83 | 3,687.71 | -78.72 | 277.63 | 288.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 4.94 | 105.83 | 3,787.34 | -81.07 | 285.92 | 296.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 4.94 | 105.83 | 3,886.96 | -83.42 | 294.20 | 305.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 4.94 | 105.83 | 3,986.59 | -85.76 | 302.49 | 313.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 4.94 | 105.83 | 4,086.22 | -88.11 | 310.77 | 322.59 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 4.94 | 105.83 | 4,185.85 | -90.46 | 319.05 | 331.19 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 4.94 | 105.83 | 4,285.48 | -92.81 | 327.34 | 339.79 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 4.94 | 105.83 | 4,385.11 | -95.16 | 335.62 | 348.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 4.94 | 105.83 | 4,484.74 | -97.51 | 343.90 | 356.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 4.94 | 105.83 | 4,584.36 | -99.86 | 352.19 | 365.58 | 0.00 | 0.00 | 0.00 | 0.00 |

Plan Report for BM 35-12A - Plan #1 Proposal

| 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) | Toolface Azimuth (°) |
|---|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|----------------------------|
| 4,700.00 | 4.94 | 105.83 | 4,683.99 | -102.20 | 360.47 | 374.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 4.94 | 105.83 | 4,783.62 | -104.55 | 368.75 | 382.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 4.94 | 105.83 | 4,883.25 | -106.90 | 377.04 | 391.38 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 4.94 | 105.83 | 4,982.88 | -109.25 | 385.32 | 399.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 4.94 | 105.83 | 5,082.51 | -111.60 | 393.61 | 408.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 4.94 | 105.83 | 5,182.14 | -113.95 | 401.89 | 417.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 4.94 | 105.83 | 5,281.76 | -116.30 | 410.17 | 425.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 4.94 | 105.83 | 5,381.39 | -118.65 | 418.46 | 434.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 4.94 | 105.83 | 5,481.02 | -120.99 | 426.74 | 442.97 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 4.94 | 105.83 | 5,580.65 | -123.34 | 435.02 | 451.57 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 4.94 | 105.83 | 5,680.28 | -125.69 | 443.31 | 460.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 4.94 | 105.83 | 5,779.91 | -128.04 | 451.59 | 468.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 4.94 | 105.83 | 5,879.54 | -130.39 | 459.87 | 477.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 4.94 | 105.83 | 5,979.16 | -132.74 | 468.16 | 485.96 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 4.94 | 105.83 | 6,078.79 | -135.09 | 476.44 | 494.56 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 4.94 | 105.83 | 6,178.42 | -137.44 | 484.73 | 503.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 4.94 | 105.83 | 6,278.05 | -139.78 | 493.01 | 511.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6,363.30 | 4.94 | 105.83 | 6,341.12 | -141.27 | 498.25 | 517.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Drop at 6363.30ft | | | | | | | | | | |
| 6,400.00 | 4.39 | 105.83 | 6,377.69 | -142.08 | 501.12 | 520.18 | 1.50 | -1.50 | 0.00 | 180.00 |
| 6,440.00 | 3.79 | 105.83 | 6,417.59 | -142.86 | 503.87 | 523.03 | 1.50 | -1.50 | 0.00 | 180.00 |
| Drop Rate = 1.50°/100ft | | | | | | | | | | |
| 6,500.00 | 2.89 | 105.83 | 6,477.49 | -143.82 | 507.23 | 526.52 | 1.50 | -1.50 | 0.00 | -180.00 |
| 6,600.00 | 1.39 | 105.83 | 6,577.42 | -144.83 | 510.82 | 530.25 | 1.50 | -1.50 | 0.00 | 180.00 |
| 6,692.05 | 0.01 | 105.83 | 6,669.46 | -145.14 | 511.90 | 531.37 | 1.50 | -1.50 | 0.00 | -180.00 |
| BM 35-12A Plan #1 Zone Tgt | | | | | | | | | | |
| 6,692.59 | 0.00 | 0.00 | 6,670.00 | -145.14 | 511.90 | 531.37 | 1.50 | -1.50 | 0.00 | -180.00 |
| End Drop at 6692.59ft - Williams Fork - BM 35-12A Plan #1 Driller's Tgt | | | | | | | | | | |
| 6,700.00 | 0.01 | 256.51 | 6,677.41 | -145.14 | 511.90 | 531.37 | 0.08 | 0.08 | 0.00 | 256.51 |
| 6,800.00 | 0.09 | 256.51 | 6,777.41 | -145.16 | 511.82 | 531.30 | 0.08 | 0.08 | 0.00 | 0.00 |
| 6,900.00 | 0.17 | 256.51 | 6,877.41 | -145.21 | 511.61 | 531.12 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,000.00 | 0.25 | 256.51 | 6,977.41 | -145.29 | 511.26 | 530.81 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,100.00 | 0.33 | 256.51 | 7,077.41 | -145.41 | 510.77 | 530.39 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,200.00 | 0.41 | 256.51 | 7,177.40 | -145.56 | 510.15 | 529.85 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,300.00 | 0.49 | 256.51 | 7,277.40 | -145.74 | 509.40 | 529.19 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,400.00 | 0.57 | 256.51 | 7,377.40 | -145.95 | 508.50 | 528.42 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,500.00 | 0.65 | 256.51 | 7,477.39 | -146.20 | 507.47 | 527.52 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,600.00 | 0.73 | 256.51 | 7,577.38 | -146.48 | 506.31 | 526.51 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,674.62 | 0.79 | 256.51 | 7,652.00 | -146.71 | 505.35 | 525.68 | 0.08 | 0.08 | 0.00 | 0.00 |
| Top of Gas | | | | | | | | | | |
| 7,700.00 | 0.81 | 256.51 | 7,677.37 | -146.79 | 505.01 | 525.38 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,800.00 | 0.89 | 256.51 | 7,777.36 | -147.14 | 503.57 | 524.13 | 0.08 | 0.08 | 0.00 | 0.00 |
| 7,900.00 | 0.97 | 256.51 | 7,877.35 | -147.51 | 502.00 | 522.76 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,000.00 | 1.05 | 256.51 | 7,977.34 | -147.92 | 500.30 | 521.28 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,100.00 | 1.13 | 256.51 | 8,077.32 | -148.37 | 498.45 | 519.68 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,200.00 | 1.21 | 256.51 | 8,177.30 | -148.84 | 496.47 | 517.96 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,300.00 | 1.29 | 256.51 | 8,277.27 | -149.35 | 494.36 | 516.12 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,400.00 | 1.37 | 256.51 | 8,377.25 | -149.89 | 492.11 | 514.16 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,500.00 | 1.45 | 256.51 | 8,477.22 | -150.46 | 489.72 | 512.09 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,510.32 | 1.45 | 256.51 | 8,487.53 | -150.52 | 489.47 | 511.87 | 0.08 | 0.08 | 0.00 | 0.00 |
| 8,600.00 | 1.40 | 256.51 | 8,577.19 | -151.04 | 487.30 | 509.98 | 0.07 | -0.07 | 0.00 | 180.00 |
| 8,700.00 | 1.33 | 256.51 | 8,677.16 | -151.60 | 484.99 | 507.97 | 0.07 | -0.07 | 0.00 | 180.00 |
| 8,800.00 | 1.27 | 256.51 | 8,777.13 | -152.12 | 482.79 | 506.06 | 0.07 | -0.07 | 0.00 | 180.00 |
| 8,900.00 | 1.20 | 256.51 | 8,877.11 | -152.63 | 480.69 | 504.24 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,000.00 | 1.14 | 256.51 | 8,977.09 | -153.10 | 478.71 | 502.51 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,100.00 | 1.07 | 256.51 | 9,077.07 | -153.55 | 476.84 | 500.88 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,200.00 | 1.01 | 256.51 | 9,177.05 | -153.97 | 475.08 | 499.35 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,235.95 | 0.98 | 256.51 | 9,213.00 | -154.12 | 474.47 | 498.83 | 0.07 | -0.07 | 0.00 | -180.00 |
| Cameo | | | | | | | | | | |

Plan Report for BM 35-12A - Plan #1 Proposal

| 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) | Toolface Azimuth (°) |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|----------------------|
| 9,300.00 | 0.94 | 256.51 | 9,277.04 | -154.37 | 473.43 | 497.92 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,400.00 | 0.88 | 256.51 | 9,377.03 | -154.74 | 471.89 | 496.58 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,500.00 | 0.81 | 256.51 | 9,477.01 | -155.08 | 470.45 | 495.33 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,600.00 | 0.75 | 256.51 | 9,577.01 | -155.40 | 469.14 | 494.19 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,609.00 | 0.74 | 256.51 | 9,586.00 | -155.43 | 469.02 | 494.09 | 0.07 | -0.07 | 0.00 | 180.00 |
| Rollins | | | | | | | | | | |
| 9,700.00 | 0.68 | 256.51 | 9,677.00 | -155.69 | 467.93 | 493.14 | 0.07 | -0.07 | 0.00 | -180.00 |
| 9,800.00 | 0.61 | 256.51 | 9,776.99 | -155.95 | 466.83 | 492.18 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,900.00 | 0.55 | 256.51 | 9,876.99 | -156.19 | 465.84 | 491.32 | 0.07 | -0.07 | 0.00 | 180.00 |
| 9,957.02 | 0.51 | 256.51 | 9,934.00 | -156.31 | 465.32 | 490.87 | 0.07 | -0.07 | 0.00 | 180.00 |
| Cozzette | | | | | | | | | | |
| 10,000.00 | 0.48 | 256.51 | 9,976.98 | -156.40 | 464.96 | 490.56 | 0.07 | -0.07 | 0.00 | -180.00 |
| 10,100.00 | 0.42 | 256.51 | 10,076.98 | -156.58 | 464.19 | 489.89 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,200.00 | 0.35 | 256.51 | 10,176.98 | -156.74 | 463.54 | 489.32 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,254.02 | 0.32 | 256.51 | 10,231.00 | -156.82 | 463.23 | 489.05 | 0.07 | -0.07 | 0.00 | -180.00 |
| Corcora | | | | | | | | | | |
| 10,300.00 | 0.29 | 256.51 | 10,276.97 | -156.87 | 462.99 | 488.84 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,400.00 | 0.22 | 256.51 | 10,376.97 | -156.98 | 462.55 | 488.46 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,495.03 | 0.16 | 256.51 | 10,472.00 | -157.05 | 462.24 | 488.19 | 0.07 | -0.07 | 0.00 | 180.00 |
| Mancos | | | | | | | | | | |
| 10,500.00 | 0.16 | 256.51 | 10,476.97 | -157.06 | 462.23 | 488.18 | 0.07 | -0.07 | 0.00 | -180.00 |
| 10,600.00 | 0.09 | 256.51 | 10,576.97 | -157.11 | 462.01 | 487.99 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,700.00 | 0.03 | 256.51 | 10,676.97 | -157.13 | 461.91 | 487.90 | 0.07 | -0.07 | 0.00 | 180.00 |
| 10,745.03 | 0.00 | 360.00 | 10,722.00 | -157.14 | 461.90 | 487.89 | 0.07 | -0.07 | 0.00 | 180.00 |
| BM 35-12A Plan #1 BH Tgt | | | | | | | | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
|---------------------|---------------------|-------------------|------------|--------------------------|
| | | +N/-S (ft) | +E/-W (ft) | |
| 225.00 | 225.00 | 0.00 | 0.00 | Kickoff at 225.00ft |
| 345.00 | 344.96 | -0.69 | 2.42 | Build Rate = 2.00°/100ft |
| 471.97 | 471.66 | -2.90 | 10.24 | End Build at 470.32ft |
| 3,470.00 | 3,458.56 | -73.32 | 258.58 | 4.94 Inclination |
| 6,363.30 | 6,341.12 | -141.27 | 498.25 | Begin Drop at 6363.30ft |
| 6,440.00 | 6,417.59 | -142.86 | 503.87 | Drop Rate = 1.50°/100ft |
| 6,692.59 | 6,670.00 | -145.14 | 511.90 | End Drop at 6692.59ft |
| 10,745.03 | 10,722.00 | -157.14 | 461.90 | Total Depth = 10745.03ft |

Vertical Section Information

| Angle Type | Target | Azimuth (°) | Origin Type | +N/-S (ft) | +E/-W (ft) | Start TVD (ft) |
|------------|--------------------------|-------------|-------------|------------|------------|----------------|
| Target | BM 35-12A Plan #1 BH Tgt | 108.79 | Slot | 0.00 | 0.00 | 0.00 |

Survey tool program

| From (ft) | To (ft) | Survey/Plan | Survey Tool |
|-----------|-----------|------------------|-------------|
| 0.00 | 10,744.81 | Plan #1 Proposal | MWD |

Plan Report for BM 35-12A - Plan #1 Proposal

Casing Details

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---------------------------|---------------------------|-------------------|---------------------------|-------------------------|
| 2,380.00 | 2,372.61 | 8 5/8" Casing Pt. | 8-5/8 | 11 |

Formation Details

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------------|---------------------------|---------------|-----------|------------|-------------------------|
| 6,692.59 | 6,670.00 | Williams Fork | | 0.00 | |
| 7,674.62 | 7,652.00 | Top of Gas | | 0.00 | |
| 9,235.95 | 9,213.00 | Cameo | | 0.00 | |
| 9,609.00 | 9,586.00 | Rollins | | 0.00 | |
| 9,957.02 | 9,934.00 | Cozzette | | 0.00 | |
| 10,254.02 | 10,231.00 | Corcora | | 0.00 | |
| 10,495.03 | 10,472.00 | Mancos | | 0.00 | |

Targets associated with this wellbore

| Target Name | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Shape |
|---------------------------------|-------------|---------------|---------------|-----------|
| BM 35-12A Plan #1 BH Tgt | 10,722.00 | -157.14 | 461.90 | Point |
| BM 35-12A Plan #1 Driller's Tgt | 6,670.00 | -145.14 | 511.90 | Rectangle |
| BM 35-12A Plan #1 Zone Tgt | 6,670.00 | -157.14 | 461.90 | Rectangle |
| BM 35-12A 100' FNL Hardline Tgt | 0.00 | 0.00 | 0.00 | Polygon |

North Reference Sheet for Sec. 35-T7S-R95W (SGV 35D2 PAD) - BM 35-12A - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB - 24' @ 8870.00ft. Northing and Easting are relative to BM 35-12A - Slot A 9

Coordinate System is US State Plane 1927 (Exact solution), Colorado Central 502 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -105.50°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin: 39° 45' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99994926

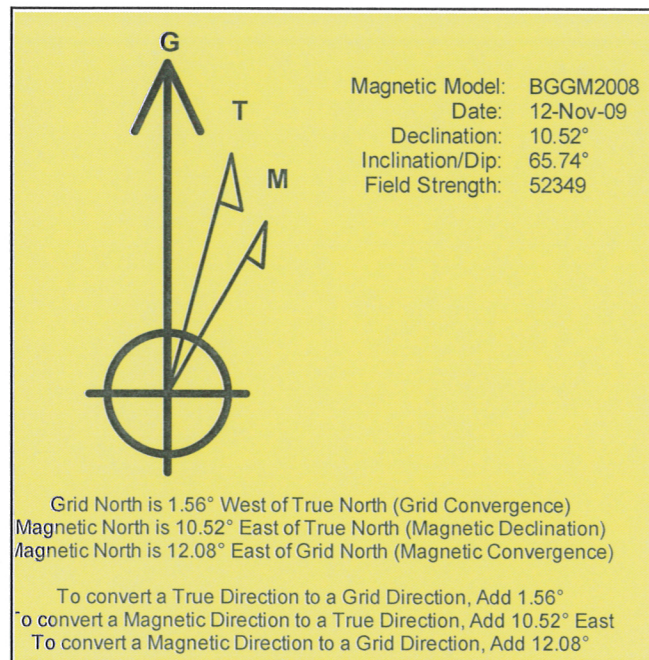
Grid Coordinates of Well: 579,137.23 ft N, 1,301,236.13 ft E

Geographical Coordinates of Well: 39° 23' 50.68" N, 107° 58' 22.45" W

Grid Convergence at Surface is: -1.56°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,745.03ft
the Bottom Hole Displacement is 487.89ft in the Direction of 108.79° (Grid).

Magnetic Convergence at surface is: -12.08° (12 November 2009, , BGGM2008)



Project: Garfield County, CO
Site: Sec. 35-T7S-R95W (SGV 35D2 PAD)
Well: BM 35-12A
Wellbore: Wellbore #1
Plan: Plan #1 Proposal

Noble Energy (Rockies)

HALLIBURTON

SECTION DETAILS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec |
|----------|------|--------|----------|---------|--------|------|--------|--------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225.00 | 0.00 | 0.00 | 225.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 471.97 | 4.94 | 105.83 | 471.66 | -2.90 | 10.24 | 2.00 | 105.83 | 10.62 |
| 6363.30 | 4.94 | 105.83 | 6341.12 | -141.27 | 498.25 | 0.00 | 0.00 | 517.20 |
| 6692.59 | 0.00 | 0.00 | 6670.00 | -145.14 | 511.90 | 1.50 | 180.00 | 531.37 |
| 8510.32 | 1.45 | 256.51 | 8487.53 | -150.52 | 489.47 | 0.08 | 256.51 | 511.87 |
| 10745.03 | 0.00 | 360.00 | 10722.00 | -157.14 | 461.90 | 0.07 | 180.00 | 487.89 |

BM 35-12A Plan #1 Driller's Tgt
BM 35-12A Plan #1 BH Tgt

WELL DETAILS: BM 35-12A

| | | | |
|---------------|------------|-----------|-------------------|
| Ground Level: | 8846.00 | Longitude | 107° 58' 22.454 W |
| North | 579137.23 | Latitude | 39° 23' 50.685 N |
| East | 1301236.13 | | |

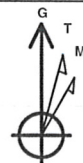
A 9

WELLBORE TARGET DETAILS

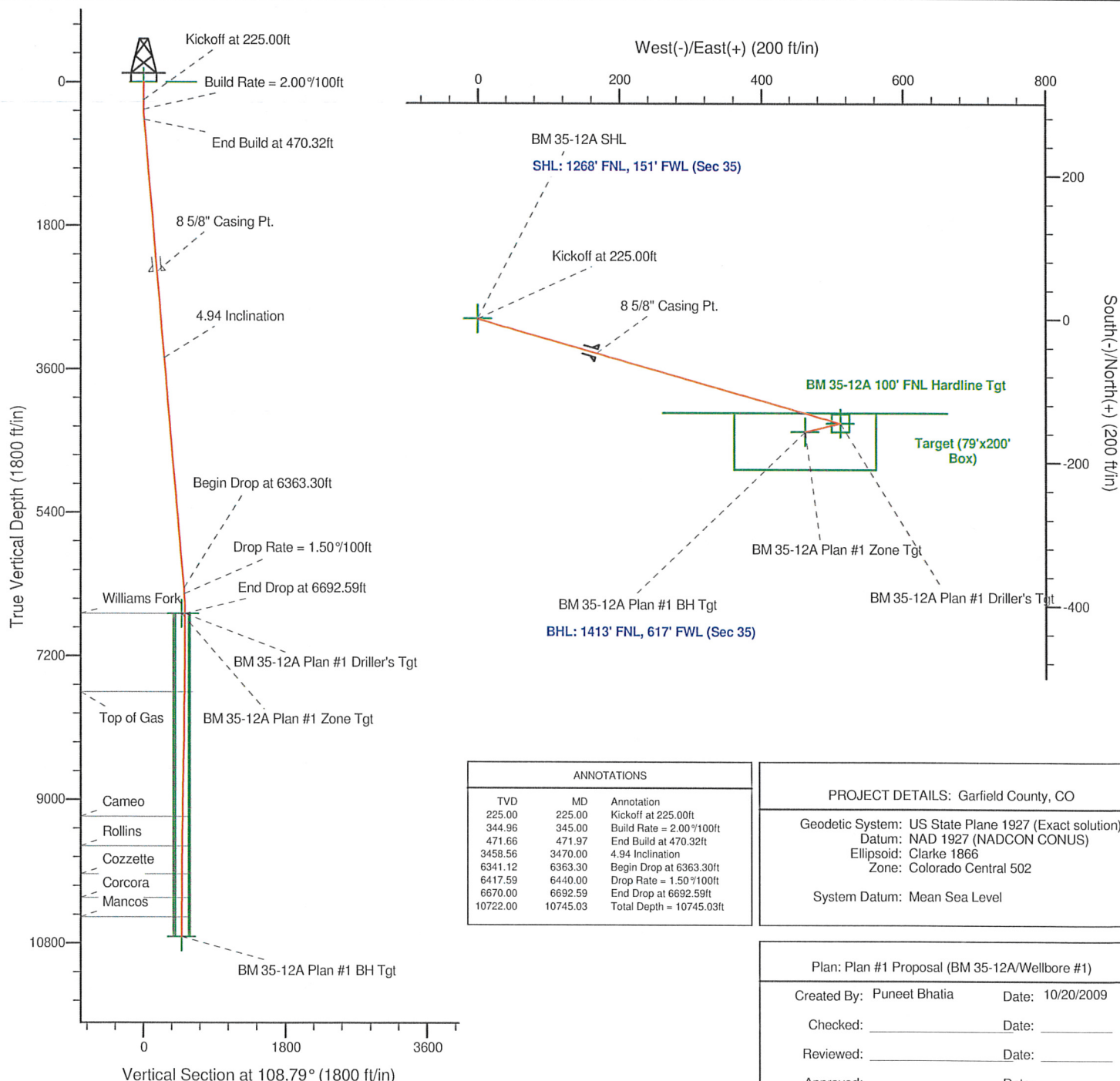
| Name | TVD | +N/-S | +E/-W | Shape |
|---------------------------------|----------|---------|--------|-----------------------------------|
| BM 35-12A 100' FNL Hardline Tgt | 0.00 | 0.00 | 0.00 | Polygon |
| BM 35-12A Plan #1 Driller's Tgt | 6670.00 | -145.14 | 511.90 | Rectangle (Sides: L25.00 W25.00) |
| BM 35-12A Plan #1 Zone Tgt | 6670.00 | -157.14 | 461.90 | Rectangle (Sides: L79.00 W200.00) |
| BM 35-12A Plan #1 BH Tgt | 10722.00 | -157.14 | 461.90 | Point |

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|----------|----------|---------------|
| 6670.00 | 6692.59 | Williams Fork |
| 7652.00 | 7674.62 | Top of Gas |
| 9213.00 | 9235.95 | Cameo |
| 9586.00 | 9609.00 | Rollins |
| 9934.00 | 9957.02 | Cozzette |
| 10231.00 | 10254.02 | Corcora |
| 10472.00 | 10495.03 | Mancos |



Azimuths to Grid North
True North: 1.56°
Magnetic North: 12.08°
Magnetic Field
Strength: 52348.7snT
Dip Angle: 65.74°
Date: 11/12/2009
Model: BGGM2008



ANNOTATIONS

| TVD | MD | Annotation |
|----------|----------|--------------------------|
| 225.00 | 225.00 | Kickoff at 225.00ft |
| 344.96 | 345.00 | Build Rate = 2.00%/100ft |
| 471.66 | 471.97 | End Build at 470.32ft |
| 3458.56 | 3470.00 | 4.94 Incline |
| 6341.12 | 6363.30 | Begin Drop at 6363.30ft |
| 6417.59 | 6440.00 | Drop Rate = 1.50%/100ft |
| 6692.00 | 6692.59 | End Drop at 6692.59ft |
| 10722.00 | 10745.03 | Total Depth = 10745.03ft |

PROJECT DETAILS: Garfield County, CO

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Colorado Central 502

System Datum: Mean Sea Level

Plan: Plan #1 Proposal (BM 35-12A/Wellbore #1)

Created By: Puneet Bhatia Date: 10/20/2009

Checked: _____ Date: _____

Reviewed: _____ Date: _____

Approved: _____ Date: _____