



Extraction Oil & Gas

**WELD COUNTY, CO
Burroughs South Pad
Burroughs South 10**

Burroughs South 10

Survey: Survey #1

Standard Survey Report

28 March, 2017



| | | | |
|------------------|----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 10 |
| Project: | WELD COUNTY, CO | TVD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 10 | North Reference: | True |
| Wellbore: | Burroughs South 10 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 10 | 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 | Burroughs South Pad | | | | |
|-----------------------|---------------------|--------------|-------------------|-------------------|-------------------|
| Site Position: | | Northing: | 1,453,259.50 usft | Latitude: | 40° 34' 27.390 N |
| From: | Lat/Long | Easting: | 3,244,150.32 usft | Longitude: | 104° 37' 15.949 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16" | Grid Convergence: | 0.57 ° |

| Well | Burroughs South 10 | | | | | |
|----------------------|--------------------|---------|---------------------|-------------------|---------------|-------------------|
| Well Position | +N/-S | 0.00 ft | Northing: | 1,453,283.89 usft | Latitude: | 40° 34' 27.631 N |
| | +E/-W | 0.00 ft | Easting: | 3,244,150.07 usft | Longitude: | 104° 37' 15.949 W |
| Position Uncertainty | | 0.00 ft | Wellhead Elevation: | 0.00 ft | Ground Level: | 4,944.00 ft |

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|------------------|--------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Burroughs South 10 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 01/25/17 | 8.19 | 67.03 | 52,541 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| Design | Burroughs South 10 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 273.38 | |

| | | | | | |
|-----------------------|----------------|--------------------------------|------------------|--------------------|--|
| Survey Program | Date | 03/28/17 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 129.00 | 17,375.00 | Survey #1 (Burroughs South 10) | MWD | MWD - Standard | |

| | | | | | | | | | | |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 129.00 | 1.30 | 39.00 | 128.99 | 1.14 | 0.92 | -0.85 | 1.01 | 1.01 | 0.00 | |
| 192.00 | 1.60 | 47.80 | 191.97 | 2.28 | 2.02 | -1.88 | 0.59 | 0.48 | 13.97 | |
| 224.00 | 1.80 | 34.00 | 223.95 | 3.00 | 2.63 | -2.45 | 1.42 | 0.63 | -43.13 | |
| 256.00 | 1.80 | 44.80 | 255.94 | 3.77 | 3.27 | -3.04 | 1.06 | 0.00 | 33.75 | |
| 383.00 | 2.60 | 32.60 | 382.85 | 7.62 | 6.23 | -5.77 | 0.73 | 0.63 | -9.61 | |
| 415.00 | 2.50 | 37.00 | 414.81 | 8.78 | 7.04 | -6.51 | 0.69 | -0.31 | 13.75 | |
| 447.00 | 2.90 | 48.10 | 446.78 | 9.88 | 8.06 | -7.46 | 2.05 | 1.25 | 34.69 | |
| 478.00 | 4.00 | 63.00 | 477.72 | 10.90 | 9.61 | -8.95 | 4.55 | 3.55 | 48.06 | |
| 510.00 | 4.10 | 63.40 | 509.64 | 11.92 | 11.62 | -10.90 | 0.32 | 0.31 | 1.25 | |
| 542.00 | 4.50 | 67.90 | 541.55 | 12.90 | 13.81 | -13.03 | 1.63 | 1.25 | 14.06 | |
| 574.00 | 5.00 | 66.70 | 573.44 | 13.92 | 16.25 | -15.41 | 1.59 | 1.56 | -3.75 | |
| 637.00 | 5.40 | 64.80 | 636.18 | 16.27 | 21.46 | -20.46 | 0.69 | 0.63 | -3.02 | |

| | | | |
|------------------|----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 10 |
| Project: | WELD COUNTY, CO | TVD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 10 | North Reference: | True |
| Wellbore: | Burroughs South 10 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 10 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 669.00 | 5.60 | 62.80 | 668.04 | 17.63 | 24.21 | -23.13 | 0.87 | 0.63 | -6.25 | |
| 701.00 | 5.70 | 59.60 | 699.88 | 19.15 | 26.97 | -25.79 | 1.03 | 0.31 | -10.00 | |
| 733.00 | 6.00 | 57.30 | 731.71 | 20.85 | 29.75 | -28.47 | 1.19 | 0.94 | -7.19 | |
| 765.00 | 6.20 | 53.50 | 763.53 | 22.78 | 32.54 | -31.15 | 1.41 | 0.63 | -11.88 | |
| 796.00 | 6.40 | 49.80 | 794.35 | 24.90 | 35.21 | -33.68 | 1.46 | 0.65 | -11.94 | |
| 828.00 | 6.50 | 47.20 | 826.14 | 27.28 | 37.90 | -36.23 | 0.96 | 0.31 | -8.13 | |
| 890.00 | 7.30 | 46.70 | 887.69 | 32.36 | 43.34 | -41.36 | 1.29 | 1.29 | -0.81 | |
| 1,020.00 | 6.68 | 59.27 | 1,016.73 | 41.89 | 55.85 | -53.29 | 1.27 | -0.48 | 9.67 | |
| 1,051.00 | 7.10 | 59.30 | 1,047.51 | 43.79 | 59.05 | -56.37 | 1.35 | 1.35 | 0.10 | |
| 1,115.00 | 5.80 | 65.50 | 1,111.10 | 47.15 | 65.39 | -62.50 | 2.30 | -2.03 | 9.69 | |
| 1,147.00 | 5.00 | 66.10 | 1,142.96 | 48.39 | 68.14 | -65.17 | 2.51 | -2.50 | 1.88 | |
| 1,210.00 | 4.80 | 65.60 | 1,205.73 | 50.59 | 73.05 | -69.94 | 0.32 | -0.32 | -0.79 | |
| 1,242.00 | 4.90 | 63.90 | 1,237.62 | 51.74 | 75.50 | -72.32 | 0.55 | 0.31 | -5.31 | |
| 1,274.00 | 5.00 | 61.30 | 1,269.50 | 53.01 | 77.95 | -74.69 | 0.77 | 0.31 | -8.13 | |
| 1,305.00 | 5.40 | 58.80 | 1,300.37 | 54.42 | 80.38 | -77.04 | 1.48 | 1.29 | -8.06 | |
| 1,337.00 | 5.50 | 54.40 | 1,332.23 | 56.09 | 82.92 | -79.47 | 1.34 | 0.31 | -13.75 | |
| 1,369.00 | 5.70 | 55.90 | 1,364.07 | 57.87 | 85.48 | -81.92 | 0.77 | 0.63 | 4.69 | |
| 1,400.00 | 6.00 | 55.80 | 1,394.91 | 59.65 | 88.09 | -84.43 | 0.97 | 0.97 | -0.32 | |
| 1,432.00 | 6.20 | 53.00 | 1,426.73 | 61.63 | 90.86 | -87.07 | 1.12 | 0.63 | -8.75 | |
| 1,525.00 | 5.00 | 54.50 | 1,519.28 | 67.00 | 98.17 | -94.05 | 1.30 | -1.29 | 1.61 | |
| 1,557.00 | 5.00 | 55.10 | 1,551.16 | 68.61 | 100.45 | -96.23 | 0.16 | 0.00 | 1.88 | |
| 1,659.00 | 5.39 | 58.58 | 1,652.74 | 73.65 | 108.18 | -103.65 | 0.49 | 0.38 | 3.41 | |
| 1,754.00 | 5.30 | 58.05 | 1,747.33 | 78.30 | 115.71 | -110.90 | 0.11 | -0.09 | -0.56 | |
| 1,849.00 | 5.08 | 63.34 | 1,841.94 | 82.51 | 123.19 | -118.12 | 0.55 | -0.23 | 5.57 | |
| 1,943.00 | 4.91 | 62.72 | 1,935.59 | 86.22 | 130.49 | -125.18 | 0.19 | -0.18 | -0.66 | |
| 2,038.00 | 6.01 | 65.23 | 2,030.15 | 90.17 | 138.62 | -133.06 | 1.18 | 1.16 | 2.64 | |
| 2,132.00 | 6.01 | 62.45 | 2,123.64 | 94.51 | 147.45 | -141.62 | 0.31 | 0.00 | -2.96 | |
| 2,321.00 | 5.48 | 64.44 | 2,311.69 | 102.98 | 164.36 | -158.01 | 0.30 | -0.28 | 1.05 | |
| 2,416.00 | 5.21 | 63.03 | 2,406.27 | 106.89 | 172.30 | -165.70 | 0.32 | -0.28 | -1.48 | |
| 2,511.00 | 4.82 | 60.34 | 2,500.91 | 110.82 | 179.61 | -172.77 | 0.48 | -0.41 | -2.83 | |
| 2,606.00 | 6.41 | 73.12 | 2,595.45 | 114.34 | 188.15 | -181.09 | 2.12 | 1.67 | 13.45 | |
| 2,796.00 | 5.30 | 73.65 | 2,784.46 | 119.89 | 206.72 | -199.30 | 0.58 | -0.58 | 0.28 | |
| 2,890.00 | 4.91 | 71.14 | 2,878.09 | 122.41 | 214.70 | -207.11 | 0.48 | -0.41 | -2.67 | |
| 2,984.00 | 7.11 | 70.12 | 2,971.57 | 125.69 | 223.97 | -216.18 | 2.34 | 2.34 | -1.09 | |
| 3,079.00 | 6.81 | 70.52 | 3,065.86 | 129.56 | 234.81 | -226.78 | 0.32 | -0.32 | 0.42 | |
| 3,173.00 | 6.32 | 66.02 | 3,159.25 | 133.53 | 244.80 | -236.51 | 0.76 | -0.52 | -4.79 | |
| 3,268.00 | 5.61 | 68.62 | 3,253.73 | 137.34 | 253.90 | -245.37 | 0.80 | -0.75 | 2.74 | |
| 3,362.00 | 4.91 | 67.52 | 3,347.34 | 140.56 | 261.89 | -253.16 | 0.75 | -0.74 | -1.17 | |
| 3,457.00 | 4.82 | 67.74 | 3,442.00 | 143.62 | 269.34 | -260.42 | 0.10 | -0.09 | 0.23 | |
| 3,551.00 | 4.20 | 66.42 | 3,535.70 | 146.50 | 276.15 | -267.04 | 0.67 | -0.66 | -1.40 | |
| 3,646.00 | 4.68 | 58.93 | 3,630.42 | 149.89 | 282.66 | -273.34 | 0.79 | 0.51 | -7.88 | |
| 3,740.00 | 6.41 | 63.16 | 3,723.98 | 154.24 | 290.63 | -281.04 | 1.89 | 1.84 | 4.50 | |
| 3,835.00 | 5.48 | 66.02 | 3,818.46 | 158.47 | 299.50 | -289.65 | 1.03 | -0.98 | 3.01 | |
| 3,930.00 | 4.20 | 66.73 | 3,913.12 | 161.69 | 306.85 | -296.79 | 1.35 | -1.35 | 0.75 | |
| 4,024.00 | 4.91 | 81.76 | 4,006.83 | 163.63 | 313.99 | -303.81 | 1.47 | 0.76 | 15.99 | |
| 4,119.00 | 6.41 | 76.73 | 4,101.36 | 165.43 | 323.17 | -312.87 | 1.66 | 1.58 | -5.29 | |
| 4,213.00 | 6.72 | 73.25 | 4,194.75 | 168.22 | 333.55 | -323.06 | 0.54 | 0.33 | -3.70 | |
| 4,308.00 | 7.11 | 73.25 | 4,289.06 | 171.51 | 344.50 | -333.80 | 0.41 | 0.41 | 0.00 | |
| 4,403.00 | 6.01 | 70.52 | 4,383.43 | 174.87 | 354.82 | -343.90 | 1.20 | -1.16 | -2.87 | |
| 4,497.00 | 4.99 | 72.55 | 4,477.00 | 177.73 | 363.36 | -352.26 | 1.10 | -1.09 | 2.16 | |
| 4,591.00 | 4.11 | 71.36 | 4,570.70 | 180.04 | 370.45 | -359.20 | 0.94 | -0.94 | -1.27 | |
| 4,687.00 | 5.39 | 74.66 | 4,666.37 | 182.33 | 378.06 | -366.66 | 1.36 | 1.33 | 3.44 | |
| 4,781.00 | 5.30 | 71.44 | 4,759.96 | 184.88 | 386.43 | -374.87 | 0.33 | -0.10 | -3.43 | |
| 4,876.00 | 5.39 | 74.84 | 4,854.55 | 187.44 | 394.90 | -383.17 | 0.35 | 0.09 | 3.58 | |

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| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 10 | North Reference: | True |
| Wellbore: | Burroughs South 10 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 10 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 4,970.00 | 5.70 | 72.72 | 4,948.11 | 189.98 | 403.62 | -391.73 | 0.40 | 0.33 | -2.26 | |
| 5,064.00 | 5.39 | 59.06 | 5,041.67 | 193.64 | 411.86 | -399.74 | 1.44 | -0.33 | -14.53 | |
| 5,159.00 | 5.70 | 59.33 | 5,136.23 | 198.34 | 419.75 | -407.34 | 0.33 | 0.33 | 0.28 | |
| 5,253.00 | 5.39 | 58.75 | 5,229.79 | 203.01 | 427.54 | -414.84 | 0.34 | -0.33 | -0.62 | |
| 5,348.00 | 4.82 | 59.85 | 5,324.41 | 207.33 | 434.80 | -421.84 | 0.61 | -0.60 | 1.16 | |
| 5,442.00 | 3.80 | 61.04 | 5,418.15 | 210.82 | 440.94 | -427.76 | 1.09 | -1.09 | 1.27 | |
| 5,537.00 | 3.89 | 37.25 | 5,512.94 | 214.91 | 445.65 | -432.22 | 1.67 | 0.09 | -25.04 | |
| 5,631.00 | 4.20 | 55.76 | 5,606.71 | 219.39 | 450.42 | -436.72 | 1.42 | 0.33 | 19.69 | |
| 5,726.00 | 5.30 | 59.06 | 5,701.38 | 223.60 | 457.06 | -443.10 | 1.19 | 1.16 | 3.47 | |
| 5,821.00 | 4.99 | 58.14 | 5,796.00 | 228.04 | 464.34 | -450.10 | 0.34 | -0.33 | -0.97 | |
| 5,916.00 | 4.29 | 51.53 | 5,890.69 | 232.43 | 470.63 | -456.12 | 0.93 | -0.74 | -6.96 | |
| 6,011.00 | 3.18 | 52.23 | 5,985.48 | 236.26 | 475.49 | -460.75 | 1.17 | -1.17 | 0.74 | |
| 6,105.00 | 2.52 | 52.32 | 6,079.37 | 239.12 | 479.19 | -464.27 | 0.70 | -0.70 | 0.10 | |
| 6,200.00 | 2.61 | 33.15 | 6,174.27 | 242.20 | 482.02 | -466.92 | 0.90 | 0.09 | -20.18 | |
| 6,294.00 | 0.80 | 138.74 | 6,268.24 | 243.50 | 483.63 | -468.45 | 3.12 | -1.93 | 112.33 | |
| 6,388.00 | 0.80 | 193.42 | 6,362.23 | 242.37 | 483.91 | -468.79 | 0.78 | 0.00 | 58.17 | |
| 6,483.00 | 0.40 | 163.63 | 6,457.23 | 241.41 | 483.85 | -468.79 | 0.52 | -0.42 | -31.36 | |
| 6,578.00 | 0.40 | 341.62 | 6,552.23 | 241.40 | 483.84 | -468.78 | 0.84 | 0.00 | 187.36 | |
| 6,673.00 | 10.30 | 278.34 | 6,646.70 | 242.95 | 475.31 | -460.17 | 10.66 | 10.42 | -66.61 | |
| 6,767.00 | 17.81 | 270.45 | 6,737.83 | 244.29 | 452.58 | -437.41 | 8.23 | 7.99 | -8.39 | |
| 6,862.00 | 26.60 | 273.45 | 6,825.70 | 245.68 | 416.75 | -401.56 | 9.33 | 9.25 | 3.16 | |
| 6,956.00 | 32.30 | 272.66 | 6,907.52 | 248.12 | 370.62 | -355.36 | 6.08 | 6.06 | -0.84 | |
| 7,050.00 | 36.81 | 266.05 | 6,984.95 | 247.34 | 317.39 | -302.27 | 6.23 | 4.80 | -7.03 | |
| 7,145.00 | 42.11 | 263.36 | 7,058.27 | 241.70 | 257.31 | -242.63 | 5.86 | 5.58 | -2.83 | |
| 7,239.00 | 47.02 | 267.85 | 7,125.24 | 236.76 | 191.59 | -177.32 | 6.20 | 5.22 | 4.78 | |
| 7,333.00 | 55.81 | 268.82 | 7,183.81 | 234.66 | 118.22 | -104.19 | 9.39 | 9.35 | 1.03 | |
| 7,428.00 | 63.72 | 268.73 | 7,231.61 | 232.91 | 36.22 | -22.44 | 8.33 | 8.33 | -0.09 | |
| 7,522.00 | 73.71 | 269.84 | 7,265.69 | 231.84 | -51.24 | 64.81 | 10.68 | 10.63 | 1.18 | |
| 7,617.00 | 82.50 | 272.66 | 7,285.26 | 233.91 | -144.08 | 157.61 | 9.70 | 9.25 | 2.97 | |
| 7,712.00 | 87.80 | 273.05 | 7,293.29 | 238.62 | -238.59 | 252.23 | 5.59 | 5.58 | 0.41 | |
| 7,830.00 | 90.90 | 272.44 | 7,294.62 | 244.27 | -356.43 | 370.20 | 2.68 | 2.63 | -0.52 | |
| 7,925.00 | 90.81 | 272.83 | 7,293.21 | 248.64 | -451.32 | 465.18 | 0.42 | -0.09 | 0.41 | |
| 8,020.00 | 88.11 | 273.36 | 7,294.10 | 253.77 | -546.17 | 560.17 | 2.90 | -2.84 | 0.56 | |
| 8,114.00 | 90.01 | 274.86 | 7,295.64 | 260.50 | -639.91 | 654.14 | 2.58 | 2.02 | 1.60 | |
| 8,209.00 | 89.31 | 274.95 | 7,296.21 | 268.62 | -734.56 | 749.10 | 0.74 | -0.74 | 0.09 | |
| 8,304.00 | 91.21 | 275.12 | 7,295.78 | 276.96 | -829.18 | 844.06 | 2.01 | 2.00 | 0.18 | |
| 8,399.00 | 90.10 | 274.02 | 7,294.69 | 284.53 | -923.87 | 939.03 | 1.64 | -1.17 | -1.16 | |
| 8,493.00 | 89.22 | 272.52 | 7,295.25 | 289.89 | -1,017.71 | 1,033.02 | 1.85 | -0.94 | -1.60 | |
| 8,588.00 | 90.99 | 272.04 | 7,295.07 | 293.67 | -1,112.64 | 1,128.00 | 1.93 | 1.86 | -0.51 | |
| 8,682.00 | 83.61 | 269.22 | 7,299.50 | 294.71 | -1,206.45 | 1,221.71 | 8.40 | -7.85 | -3.00 | |
| 8,777.00 | 88.69 | 270.85 | 7,305.88 | 294.77 | -1,301.20 | 1,316.30 | 5.61 | 5.35 | 1.72 | |
| 8,872.00 | 91.60 | 270.63 | 7,305.64 | 296.00 | -1,396.18 | 1,411.19 | 3.07 | 3.06 | -0.23 | |
| 8,966.00 | 90.28 | 271.73 | 7,304.09 | 297.93 | -1,490.15 | 1,505.11 | 1.83 | -1.40 | 1.17 | |
| 9,061.00 | 89.48 | 273.23 | 7,304.29 | 302.04 | -1,585.05 | 1,600.09 | 1.79 | -0.84 | 1.58 | |
| 9,156.00 | 87.80 | 272.52 | 7,306.55 | 306.81 | -1,679.90 | 1,695.06 | 1.92 | -1.77 | -0.75 | |
| 9,251.00 | 89.79 | 271.95 | 7,308.55 | 310.51 | -1,774.81 | 1,790.01 | 2.18 | 2.09 | -0.60 | |
| 9,345.00 | 92.49 | 271.25 | 7,306.68 | 313.14 | -1,868.74 | 1,883.94 | 2.97 | 2.87 | -0.74 | |
| 9,440.00 | 82.19 | 269.75 | 7,311.08 | 313.97 | -1,963.51 | 1,978.59 | 10.96 | -10.84 | -1.58 | |
| 9,535.00 | 89.22 | 269.04 | 7,318.19 | 312.97 | -2,058.17 | 2,073.03 | 7.44 | 7.40 | -0.75 | |
| 9,630.00 | 91.21 | 271.03 | 7,317.83 | 313.02 | -2,153.16 | 2,167.86 | 2.96 | 2.09 | 2.09 | |
| 9,725.00 | 90.90 | 273.76 | 7,316.08 | 316.99 | -2,248.05 | 2,262.82 | 2.89 | -0.33 | 2.87 | |
| 9,819.00 | 87.19 | 273.54 | 7,317.65 | 322.98 | -2,341.83 | 2,356.79 | 3.95 | -3.95 | -0.23 | |
| 9,914.00 | 87.80 | 272.83 | 7,321.80 | 328.25 | -2,436.60 | 2,451.70 | 0.98 | 0.64 | -0.75 | |
| 10,009.00 | 91.60 | 272.51 | 7,322.30 | 332.67 | -2,531.47 | 2,546.67 | 4.01 | 4.00 | -0.34 | |

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|------------------|----------------------|-------------------------------------|---------------------------------|
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| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 10 | North Reference: | True |
| Wellbore: | Burroughs South 10 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 10 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 10,104.00 | 90.19 | 271.27 | 7,320.82 | 335.81 | -2,626.41 | 2,641.63 | 1.98 | -1.48 | -1.31 | |
| 10,199.00 | 91.60 | 271.27 | 7,319.33 | 337.91 | -2,721.37 | 2,736.55 | 1.48 | 1.48 | 0.00 | |
| 10,293.00 | 90.41 | 270.48 | 7,317.68 | 339.35 | -2,815.34 | 2,830.44 | 1.52 | -1.27 | -0.84 | |
| 10,388.00 | 89.31 | 272.37 | 7,317.91 | 341.71 | -2,910.31 | 2,925.38 | 2.30 | -1.16 | 1.99 | |
| 10,483.00 | 90.01 | 271.80 | 7,318.48 | 345.16 | -3,005.24 | 3,020.35 | 0.95 | 0.74 | -0.60 | |
| 10,578.00 | 88.60 | 273.70 | 7,319.63 | 349.72 | -3,100.12 | 3,115.33 | 2.49 | -1.48 | 2.00 | |
| 10,672.00 | 87.89 | 273.39 | 7,322.51 | 355.53 | -3,193.89 | 3,209.29 | 0.82 | -0.76 | -0.33 | |
| 10,767.00 | 89.70 | 272.77 | 7,324.51 | 360.63 | -3,288.73 | 3,304.26 | 2.01 | 1.91 | -0.65 | |
| 10,862.00 | 90.10 | 272.37 | 7,324.67 | 364.89 | -3,383.63 | 3,399.25 | 0.60 | 0.42 | -0.42 | |
| 10,957.00 | 91.21 | 271.80 | 7,323.59 | 368.35 | -3,478.56 | 3,494.22 | 1.31 | 1.17 | -0.60 | |
| 11,052.00 | 88.60 | 272.11 | 7,323.74 | 371.59 | -3,573.50 | 3,589.18 | 2.77 | -2.75 | 0.33 | |
| 11,147.00 | 88.60 | 271.67 | 7,326.07 | 374.72 | -3,668.42 | 3,684.12 | 0.46 | 0.00 | -0.46 | |
| 11,242.00 | 89.00 | 271.67 | 7,328.06 | 377.49 | -3,763.36 | 3,779.06 | 0.42 | 0.42 | 0.00 | |
| 11,336.00 | 90.28 | 272.37 | 7,328.65 | 380.80 | -3,857.29 | 3,873.03 | 1.55 | 1.36 | 0.74 | |
| 11,431.00 | 90.90 | 272.60 | 7,327.67 | 384.92 | -3,952.20 | 3,968.01 | 0.70 | 0.65 | 0.24 | |
| 11,525.00 | 91.30 | 272.60 | 7,325.86 | 389.19 | -4,046.09 | 4,061.98 | 0.43 | 0.43 | 0.00 | |
| 11,621.00 | 90.50 | 272.99 | 7,324.36 | 393.87 | -4,141.96 | 4,157.97 | 0.93 | -0.83 | 0.41 | |
| 11,715.00 | 90.99 | 272.77 | 7,323.13 | 398.59 | -4,235.83 | 4,251.95 | 0.57 | 0.52 | -0.23 | |
| 11,810.00 | 90.41 | 272.90 | 7,321.97 | 403.29 | -4,330.71 | 4,346.94 | 0.63 | -0.61 | 0.14 | |
| 11,905.00 | 86.79 | 271.49 | 7,324.29 | 406.92 | -4,425.59 | 4,441.88 | 4.09 | -3.81 | -1.48 | |
| 12,000.00 | 88.20 | 271.80 | 7,328.45 | 409.65 | -4,520.46 | 4,536.74 | 1.52 | 1.48 | 0.33 | |
| 12,095.00 | 89.62 | 273.21 | 7,330.25 | 413.80 | -4,615.35 | 4,631.71 | 2.11 | 1.49 | 1.48 | |
| 12,189.00 | 90.50 | 272.90 | 7,330.15 | 418.81 | -4,709.21 | 4,725.70 | 0.99 | 0.94 | -0.33 | |
| 12,284.00 | 89.62 | 273.08 | 7,330.05 | 423.77 | -4,804.08 | 4,820.70 | 0.95 | -0.93 | 0.19 | |
| 12,379.00 | 87.50 | 272.37 | 7,332.44 | 428.28 | -4,898.94 | 4,915.66 | 2.35 | -2.23 | -0.75 | |
| 12,474.00 | 87.80 | 271.89 | 7,336.34 | 431.81 | -4,993.79 | 5,010.56 | 0.60 | 0.32 | -0.51 | |
| 12,569.00 | 88.51 | 271.89 | 7,339.40 | 434.94 | -5,088.69 | 5,105.47 | 0.75 | 0.75 | 0.00 | |
| 12,664.00 | 86.08 | 270.61 | 7,343.88 | 437.01 | -5,183.55 | 5,200.29 | 2.89 | -2.56 | -1.35 | |
| 12,758.00 | 88.38 | 272.60 | 7,348.42 | 439.64 | -5,277.40 | 5,294.13 | 3.23 | 2.45 | 2.12 | |
| 12,853.00 | 85.99 | 271.80 | 7,353.09 | 443.28 | -5,372.20 | 5,388.99 | 2.65 | -2.52 | -0.84 | |
| 12,948.00 | 86.92 | 272.11 | 7,358.96 | 446.52 | -5,466.96 | 5,483.77 | 1.03 | 0.98 | 0.33 | |
| 13,042.00 | 90.01 | 272.37 | 7,361.48 | 450.19 | -5,560.85 | 5,577.71 | 3.30 | 3.29 | 0.28 | |
| 13,137.00 | 91.38 | 272.37 | 7,360.33 | 454.12 | -5,655.76 | 5,672.69 | 1.44 | 1.44 | 0.00 | |
| 13,232.00 | 92.49 | 272.37 | 7,357.12 | 458.05 | -5,750.62 | 5,767.62 | 1.17 | 1.17 | 0.00 | |
| 13,326.00 | 93.20 | 272.29 | 7,352.45 | 461.86 | -5,844.43 | 5,861.48 | 0.76 | 0.76 | -0.09 | |
| 13,421.00 | 92.40 | 271.80 | 7,347.81 | 465.25 | -5,939.25 | 5,956.34 | 0.99 | -0.84 | -0.52 | |
| 13,516.00 | 93.42 | 272.51 | 7,342.99 | 468.82 | -6,034.06 | 6,051.20 | 1.31 | 1.07 | 0.75 | |
| 13,610.00 | 90.50 | 271.80 | 7,339.78 | 472.35 | -6,127.93 | 6,145.11 | 3.20 | -3.11 | -0.76 | |
| 13,704.00 | 86.48 | 270.39 | 7,342.25 | 474.14 | -6,221.86 | 6,238.98 | 4.53 | -4.28 | -1.50 | |
| 13,799.00 | 87.41 | 270.88 | 7,347.31 | 475.20 | -6,316.71 | 6,333.74 | 1.11 | 0.98 | 0.52 | |
| 13,893.00 | 88.29 | 271.98 | 7,350.84 | 477.54 | -6,410.62 | 6,427.61 | 1.50 | 0.94 | 1.17 | |
| 13,989.00 | 89.31 | 271.27 | 7,352.85 | 480.26 | -6,506.55 | 6,523.55 | 1.29 | 1.06 | -0.74 | |
| 14,084.00 | 89.48 | 270.17 | 7,353.86 | 481.46 | -6,601.54 | 6,618.44 | 1.17 | 0.18 | -1.16 | |
| 14,178.00 | 88.82 | 272.37 | 7,355.25 | 483.54 | -6,695.50 | 6,712.36 | 2.44 | -0.70 | 2.34 | |
| 14,273.00 | 88.51 | 272.20 | 7,357.46 | 487.32 | -6,790.40 | 6,807.31 | 0.37 | -0.33 | -0.18 | |
| 14,367.00 | 89.09 | 272.11 | 7,359.43 | 490.86 | -6,884.31 | 6,901.27 | 0.62 | 0.62 | -0.10 | |
| 14,462.00 | 90.10 | 271.89 | 7,360.10 | 494.17 | -6,979.25 | 6,996.24 | 1.09 | 1.06 | -0.23 | |
| 14,557.00 | 90.10 | 271.41 | 7,359.94 | 496.91 | -7,074.21 | 7,091.20 | 0.51 | 0.00 | -0.51 | |
| 14,651.00 | 91.60 | 271.67 | 7,358.54 | 499.44 | -7,168.16 | 7,185.14 | 1.62 | 1.60 | 0.28 | |
| 14,746.00 | 91.78 | 270.61 | 7,355.74 | 501.32 | -7,263.10 | 7,280.02 | 1.13 | 0.19 | -1.12 | |
| 14,841.00 | 90.10 | 271.80 | 7,354.18 | 503.32 | -7,358.06 | 7,374.93 | 2.17 | -1.77 | 1.25 | |
| 14,936.00 | 90.50 | 271.98 | 7,353.69 | 506.46 | -7,453.01 | 7,469.90 | 0.46 | 0.42 | 0.19 | |
| 15,031.00 | 88.38 | 271.19 | 7,354.61 | 509.08 | -7,547.96 | 7,564.84 | 2.38 | -2.23 | -0.83 | |
| 15,125.00 | 88.91 | 271.41 | 7,356.84 | 511.22 | -7,641.91 | 7,658.76 | 0.61 | 0.56 | 0.23 | |

| | | | |
|------------------|----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 10 |
| Project: | WELD COUNTY, CO | TVD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 10 | North Reference: | True |
| Wellbore: | Burroughs South 10 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 10 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 15,220.00 | 89.00 | 270.30 | 7,358.57 | 512.63 | -7,736.88 | 7,753.65 | 1.17 | 0.09 | -1.17 |
| 15,315.00 | 89.22 | 271.27 | 7,360.04 | 513.93 | -7,831.86 | 7,848.54 | 1.05 | 0.23 | 1.02 |
| 15,410.00 | 89.31 | 270.88 | 7,361.26 | 515.72 | -7,926.84 | 7,943.45 | 0.42 | 0.09 | -0.41 |
| 15,504.00 | 89.62 | 272.29 | 7,362.14 | 518.32 | -8,020.80 | 8,037.40 | 1.54 | 0.33 | 1.50 |
| 15,599.00 | 90.59 | 272.68 | 7,361.97 | 522.43 | -8,115.70 | 8,132.39 | 1.10 | 1.02 | 0.41 |
| 15,694.00 | 91.12 | 272.20 | 7,360.55 | 526.48 | -8,210.61 | 8,227.36 | 0.75 | 0.56 | -0.51 |
| 15,789.00 | 88.69 | 272.77 | 7,360.71 | 530.60 | -8,305.51 | 8,322.34 | 2.63 | -2.56 | 0.60 |
| 15,884.00 | 89.00 | 272.37 | 7,362.62 | 534.86 | -8,400.39 | 8,417.31 | 0.53 | 0.33 | -0.42 |
| 15,979.00 | 87.98 | 271.80 | 7,365.13 | 538.31 | -8,495.30 | 8,512.26 | 1.23 | -1.07 | -0.60 |
| 16,074.00 | 88.20 | 271.89 | 7,368.29 | 541.37 | -8,590.20 | 8,607.17 | 0.25 | 0.23 | 0.09 |
| 16,168.00 | 88.20 | 271.01 | 7,371.24 | 543.75 | -8,684.12 | 8,701.07 | 0.94 | 0.00 | -0.94 |
| 16,263.00 | 87.98 | 271.67 | 7,374.41 | 545.97 | -8,779.04 | 8,795.95 | 0.73 | -0.23 | 0.69 |
| 16,357.00 | 87.89 | 271.80 | 7,377.80 | 548.81 | -8,872.93 | 8,889.85 | 0.17 | -0.10 | 0.14 |
| 16,453.00 | 89.79 | 272.20 | 7,379.74 | 552.16 | -8,968.85 | 8,985.80 | 2.02 | 1.98 | 0.42 |
| 16,547.00 | 90.41 | 272.99 | 7,379.58 | 556.42 | -9,062.75 | 9,079.79 | 1.07 | 0.66 | 0.84 |
| 16,642.00 | 89.88 | 272.29 | 7,379.34 | 560.79 | -9,157.65 | 9,174.78 | 0.92 | -0.56 | -0.74 |
| 16,737.00 | 90.72 | 273.30 | 7,378.84 | 565.42 | -9,252.54 | 9,269.78 | 1.38 | 0.88 | 1.06 |
| 16,832.00 | 91.52 | 272.29 | 7,376.98 | 570.06 | -9,347.40 | 9,364.75 | 1.36 | 0.84 | -1.06 |
| 16,926.00 | 91.78 | 271.58 | 7,374.28 | 573.23 | -9,441.31 | 9,458.68 | 0.80 | 0.28 | -0.76 |
| 17,021.00 | 90.72 | 271.58 | 7,372.20 | 575.85 | -9,536.25 | 9,553.61 | 1.12 | -1.12 | 0.00 |
| Last Svy | | | | | | | | | |
| 17,115.00 | 90.72 | 271.19 | 7,371.02 | 578.12 | -9,630.21 | 9,647.55 | 0.41 | 0.00 | -0.41 |
| Proj Svy | | | | | | | | | |
| 17,375.00 | 90.72 | 271.19 | 7,367.75 | 583.52 | -9,890.14 | 9,907.34 | 0.00 | 0.00 | 0.00 |

| Survey Annotations | | | | |
|---------------------|---------------------|-------------------|------------|----------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 17,115.00 | 7,371.02 | 578.12 | -9,630.21 | Last Svy |
| 17,375.00 | 7,367.75 | 583.52 | -9,890.14 | Proj Svy |

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