



Extraction Oil & Gas

WELD COUNTY, CO

Burroughs South Pad

Burroughs South 13

Burroughs South 13

Survey: Survey #1

Standard Survey Report

07 February, 2018



| | | | |
|------------------|-----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 13 |
| 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 13 | North Reference: | True |
| Wellbore: | Burroughs South 13 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 13 OH | Database: | EDM 5000.14 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 13 | | | | | |
|----------------------|--------------------|---------|---------------------|-------------------|---------------|-------------------|
| Well Position | +N/-S | 0.00 ft | Northing: | 1,453,208.85 usft | Latitude: | 40° 34' 26.889 N |
| | +E/-W | 0.00 ft | Easting: | 3,244,150.82 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 13 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 11/23/16 | 8.21 | 67.03 | 52,561.05464519 |

| | | | | | |
|-------------------|--------------------------|---------------|---------------|------------------|------|
| Design | Burroughs South 13 OH | | | | |
| 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 | 125.73 | |

| | | | | | |
|-----------------------|----------------|--------------------------------|------------------|--------------------|--|
| Survey Program | Date | 02/07/18 | | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 129.00 | 11,175.00 | Survey #1 (Burroughs South 13) | 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 | 0.40 | 260.50 | 129.00 | -0.07 | -0.44 | -0.32 | 0.31 | 0.31 | 0.00 |
| 224.00 | 0.40 | 249.90 | 224.00 | -0.24 | -1.08 | -0.74 | 0.08 | 0.00 | -11.16 |
| 319.00 | 0.50 | 179.90 | 318.99 | -0.77 | -1.39 | -0.68 | 0.55 | 0.11 | -73.68 |
| 478.00 | 0.60 | 208.50 | 477.99 | -2.20 | -1.79 | -0.17 | 0.18 | 0.06 | 17.99 |
| 573.00 | 0.50 | 198.00 | 572.98 | -3.03 | -2.15 | 0.02 | 0.15 | -0.11 | -11.05 |
| 669.00 | 0.80 | 212.60 | 668.98 | -3.99 | -2.65 | 0.18 | 0.35 | 0.31 | 15.21 |
| 764.00 | 3.80 | 180.60 | 763.89 | -7.70 | -3.04 | 2.03 | 3.32 | 3.16 | -33.68 |
| 860.00 | 4.20 | 152.20 | 859.67 | -13.99 | -1.43 | 7.01 | 2.08 | 0.42 | -29.58 |
| 955.00 | 2.80 | 119.30 | 954.50 | -18.20 | 2.22 | 12.43 | 2.52 | -1.47 | -34.63 |
| 1,050.00 | 3.50 | 108.00 | 1,049.35 | -20.24 | 7.00 | 17.50 | 0.98 | 0.74 | -11.89 |
| 1,145.00 | 4.10 | 112.00 | 1,144.14 | -22.40 | 12.91 | 23.56 | 0.69 | 0.63 | 4.21 |
| 1,239.00 | 4.80 | 111.50 | 1,237.86 | -25.10 | 19.68 | 30.64 | 0.75 | 0.74 | -0.53 |

| | | | |
|------------------|-----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 13 |
| 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 13 | North Reference: | True |
| Wellbore: | Burroughs South 13 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 13 OH | Database: | EDM 5000.14 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) | |
| 1,335.00 | 5.20 | 107.70 | 1,333.49 | -27.90 | 27.56 | 38.67 | 0.54 | 0.42 | -3.96 | |
| 1,430.00 | 5.50 | 102.40 | 1,428.08 | -30.18 | 36.11 | 46.94 | 0.61 | 0.32 | -5.58 | |
| 1,525.00 | 5.00 | 114.90 | 1,522.69 | -32.91 | 44.31 | 55.19 | 1.31 | -0.53 | 13.16 | |
| 1,547.00 | 4.90 | 118.70 | 1,544.60 | -33.76 | 46.01 | 57.06 | 1.56 | -0.45 | 17.27 | |
| 1,648.00 | 5.19 | 127.53 | 1,645.21 | -38.61 | 53.41 | 65.91 | 0.82 | 0.29 | 8.74 | |
| 1,743.00 | 8.27 | 138.34 | 1,739.55 | -46.34 | 61.36 | 76.87 | 3.49 | 3.24 | 11.38 | |
| 1,837.00 | 8.62 | 121.38 | 1,832.55 | -55.06 | 71.87 | 90.50 | 2.67 | 0.37 | -18.04 | |
| 1,932.00 | 8.71 | 119.80 | 1,926.46 | -62.34 | 84.19 | 104.75 | 0.27 | 0.09 | -1.66 | |
| 2,026.00 | 8.71 | 118.30 | 2,019.38 | -69.25 | 96.64 | 118.89 | 0.24 | 0.00 | -1.60 | |
| 2,121.00 | 8.44 | 117.33 | 2,113.32 | -75.86 | 109.16 | 132.92 | 0.32 | -0.28 | -1.02 | |
| 2,215.00 | 8.27 | 116.89 | 2,206.32 | -82.09 | 121.32 | 146.42 | 0.19 | -0.18 | -0.47 | |
| 2,310.00 | 8.00 | 116.72 | 2,300.36 | -88.15 | 133.32 | 159.70 | 0.29 | -0.28 | -0.18 | |
| 2,405.00 | 7.65 | 117.60 | 2,394.48 | -94.05 | 144.83 | 172.49 | 0.39 | -0.37 | 0.93 | |
| 2,500.00 | 7.56 | 116.89 | 2,488.64 | -99.81 | 156.00 | 184.93 | 0.14 | -0.09 | -0.75 | |
| 2,594.00 | 7.39 | 118.65 | 2,581.84 | -105.50 | 166.82 | 197.04 | 0.30 | -0.18 | 1.87 | |
| 2,689.00 | 6.95 | 116.98 | 2,676.10 | -111.04 | 177.31 | 208.78 | 0.51 | -0.46 | -1.76 | |
| 2,784.00 | 6.60 | 118.48 | 2,770.44 | -116.25 | 187.23 | 219.88 | 0.41 | -0.37 | 1.58 | |
| 2,878.00 | 6.24 | 119.97 | 2,863.85 | -121.38 | 196.40 | 230.32 | 0.42 | -0.38 | 1.59 | |
| 2,973.00 | 8.44 | 129.20 | 2,958.07 | -128.37 | 206.28 | 242.42 | 2.62 | 2.32 | 9.72 | |
| 3,067.00 | 8.62 | 129.90 | 3,051.03 | -137.24 | 217.03 | 256.33 | 0.22 | 0.19 | 0.74 | |
| 3,162.00 | 8.18 | 128.58 | 3,145.01 | -146.03 | 227.77 | 270.18 | 0.51 | -0.46 | -1.39 | |
| 3,256.00 | 7.65 | 127.79 | 3,238.11 | -154.03 | 237.95 | 283.11 | 0.58 | -0.56 | -0.84 | |
| 3,351.00 | 7.21 | 128.06 | 3,332.31 | -161.58 | 247.64 | 295.39 | 0.46 | -0.46 | 0.28 | |
| 3,445.00 | 6.86 | 128.67 | 3,425.61 | -168.72 | 256.67 | 306.89 | 0.38 | -0.37 | 0.65 | |
| 3,540.00 | 6.51 | 127.44 | 3,519.96 | -175.54 | 265.37 | 317.94 | 0.40 | -0.37 | -1.29 | |
| 3,634.00 | 5.89 | 127.00 | 3,613.41 | -181.69 | 273.45 | 328.08 | 0.66 | -0.66 | -0.47 | |
| 3,729.00 | 5.80 | 129.29 | 3,707.92 | -187.66 | 281.06 | 337.75 | 0.26 | -0.09 | 2.41 | |
| 3,824.00 | 5.54 | 125.77 | 3,802.45 | -193.38 | 288.50 | 347.12 | 0.46 | -0.27 | -3.71 | |
| 3,918.00 | 5.19 | 124.28 | 3,896.04 | -198.43 | 295.69 | 355.91 | 0.40 | -0.37 | -1.59 | |
| 4,013.00 | 5.36 | 122.43 | 3,990.64 | -203.23 | 302.99 | 364.64 | 0.25 | 0.18 | -1.95 | |
| 4,107.00 | 5.28 | 119.53 | 4,084.23 | -207.71 | 310.46 | 373.32 | 0.30 | -0.09 | -3.09 | |
| 4,201.00 | 5.54 | 116.72 | 4,177.81 | -211.88 | 318.27 | 382.10 | 0.39 | 0.28 | -2.99 | |
| 4,296.00 | 5.80 | 115.58 | 4,272.35 | -216.02 | 326.70 | 391.36 | 0.30 | 0.27 | -1.20 | |
| 4,391.00 | 5.63 | 114.17 | 4,366.88 | -220.00 | 335.28 | 400.65 | 0.23 | -0.18 | -1.48 | |
| 4,485.00 | 4.92 | 112.32 | 4,460.48 | -223.42 | 343.22 | 409.08 | 0.78 | -0.76 | -1.97 | |
| 4,580.00 | 6.42 | 117.33 | 4,555.01 | -227.40 | 351.70 | 418.30 | 1.66 | 1.58 | 5.27 | |
| 4,675.00 | 9.32 | 127.44 | 4,649.11 | -234.52 | 362.53 | 431.25 | 3.37 | 3.05 | 10.64 | |
| 4,769.00 | 8.88 | 127.79 | 4,741.93 | -243.59 | 374.31 | 446.11 | 0.47 | -0.47 | 0.37 | |
| 4,864.00 | 8.44 | 127.35 | 4,835.84 | -252.32 | 385.65 | 460.40 | 0.47 | -0.46 | -0.46 | |
| 4,959.00 | 6.86 | 123.84 | 4,930.00 | -259.71 | 395.90 | 473.04 | 1.73 | -1.66 | -3.69 | |
| 5,052.00 | 5.28 | 120.23 | 5,022.47 | -264.95 | 404.21 | 482.86 | 1.75 | -1.70 | -3.88 | |
| 5,147.00 | 3.78 | 118.83 | 5,117.17 | -268.66 | 410.73 | 490.32 | 1.58 | -1.58 | -1.47 | |
| 5,241.00 | 6.60 | 119.18 | 5,210.78 | -272.79 | 418.17 | 498.76 | 3.00 | 3.00 | 0.37 | |
| 5,336.00 | 9.23 | 127.09 | 5,304.87 | -280.05 | 429.01 | 511.80 | 2.99 | 2.77 | 8.33 | |
| 5,430.00 | 8.09 | 128.50 | 5,397.79 | -288.72 | 440.20 | 525.95 | 1.23 | -1.21 | 1.50 | |
| 5,525.00 | 7.12 | 124.89 | 5,491.96 | -296.24 | 450.26 | 538.51 | 1.14 | -1.02 | -3.80 | |
| 5,620.00 | 5.98 | 122.34 | 5,586.34 | -302.26 | 459.27 | 549.34 | 1.24 | -1.20 | -2.68 | |
| 5,715.00 | 5.80 | 123.57 | 5,680.84 | -307.56 | 467.45 | 559.08 | 0.23 | -0.19 | 1.29 | |
| 5,810.00 | 4.75 | 124.37 | 5,775.43 | -312.44 | 474.70 | 567.81 | 1.11 | -1.11 | 0.84 | |
| 5,905.00 | 4.13 | 122.52 | 5,870.15 | -316.50 | 480.83 | 575.15 | 0.67 | -0.65 | -1.95 | |
| 5,999.00 | 3.87 | 113.12 | 5,963.92 | -319.56 | 486.60 | 581.63 | 0.75 | -0.28 | -10.00 | |
| 6,094.00 | 3.34 | 114.87 | 6,058.73 | -321.98 | 492.06 | 587.47 | 0.57 | -0.56 | 1.84 | |
| 6,188.00 | 2.81 | 111.71 | 6,152.59 | -323.99 | 496.69 | 592.40 | 0.59 | -0.56 | -3.36 | |
| 6,282.00 | 2.11 | 98.97 | 6,246.51 | -325.11 | 500.54 | 596.18 | 0.94 | -0.74 | -13.55 | |

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|------------------|-----------------------|-------------------------------------|---------------------------------|
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| Site: | Burroughs South Pad | MD Reference: | New KB @ 4972.00ft (Cyclone 37) |
| Well: | Burroughs South 13 | North Reference: | True |
| Wellbore: | Burroughs South 13 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 13 OH | Database: | EDM 5000.14 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) |
| 6,377.00 | 2.02 | 84.81 | 6,341.45 | -325.23 | 503.93 | 599.01 | 0.54 | -0.09 | -14.91 |
| 6,495.00 | 1.41 | 78.18 | 6,459.39 | -324.75 | 507.43 | 601.56 | 0.54 | -0.52 | -5.62 |
| 6,590.00 | 0.79 | 262.83 | 6,554.39 | -324.59 | 507.92 | 601.87 | 2.31 | -0.65 | -184.58 |
| 6,684.00 | 12.05 | 280.32 | 6,647.65 | -322.91 | 497.59 | 592.50 | 12.02 | 11.98 | 18.61 |
| 6,779.00 | 18.38 | 288.23 | 6,739.28 | -316.44 | 473.58 | 569.23 | 7.00 | 6.66 | 8.33 |
| 6,873.00 | 23.48 | 279.80 | 6,827.07 | -308.61 | 441.02 | 538.23 | 6.29 | 5.43 | -8.97 |
| 6,968.00 | 33.68 | 270.48 | 6,910.43 | -305.15 | 395.89 | 499.57 | 11.69 | 10.74 | -9.81 |
| 7,062.00 | 44.32 | 273.56 | 6,983.38 | -302.89 | 336.88 | 450.35 | 11.50 | 11.32 | 3.28 |
| 7,157.00 | 50.91 | 270.13 | 7,047.39 | -300.74 | 266.80 | 392.20 | 7.43 | 6.94 | -3.61 |
| 7,251.00 | 56.01 | 271.45 | 7,103.34 | -299.67 | 191.31 | 330.29 | 5.54 | 5.43 | 1.40 |
| 7,345.00 | 62.61 | 268.55 | 7,151.30 | -299.74 | 110.54 | 264.76 | 7.50 | 7.02 | -3.09 |
| 7,440.00 | 65.77 | 269.16 | 7,192.66 | -301.45 | 25.04 | 196.35 | 3.38 | 3.33 | 0.64 |
| 7,534.00 | 64.63 | 270.57 | 7,232.09 | -301.65 | -60.28 | 127.20 | 1.82 | -1.21 | 1.50 |
| 7,629.00 | 79.40 | 271.01 | 7,261.34 | -300.39 | -150.38 | 53.32 | 15.55 | 15.55 | 0.46 |
| 7,724.00 | 88.81 | 272.59 | 7,271.09 | -297.42 | -244.73 | -25.00 | 10.04 | 9.91 | 1.66 |
| 7,818.00 | 86.44 | 273.29 | 7,274.98 | -292.60 | -338.51 | -103.95 | 2.63 | -2.52 | 0.74 |
| 7,913.00 | 84.06 | 272.76 | 7,282.85 | -287.61 | -433.05 | -183.61 | 2.57 | -2.51 | -0.56 |
| 8,008.00 | 88.81 | 272.24 | 7,288.75 | -283.47 | -527.75 | -262.91 | 5.03 | 5.00 | -0.55 |
| 8,102.00 | 88.29 | 272.15 | 7,291.13 | -279.87 | -621.65 | -341.24 | 0.56 | -0.55 | -0.10 |
| 8,197.00 | 88.72 | 271.62 | 7,293.61 | -276.75 | -716.56 | -420.11 | 0.72 | 0.45 | -0.56 |
| 8,292.00 | 90.13 | 271.89 | 7,294.56 | -273.84 | -811.51 | -498.89 | 1.51 | 1.48 | 0.28 |
| 8,387.00 | 87.67 | 272.33 | 7,296.39 | -270.34 | -906.42 | -577.98 | 2.63 | -2.59 | 0.46 |
| 8,481.00 | 88.81 | 272.06 | 7,299.27 | -266.74 | -1,000.31 | -656.30 | 1.25 | 1.21 | -0.29 |
| 8,576.00 | 89.69 | 271.80 | 7,300.52 | -263.55 | -1,095.24 | -735.24 | 0.97 | 0.93 | -0.27 |
| 8,670.00 | 90.66 | 272.15 | 7,300.23 | -260.31 | -1,189.19 | -813.40 | 1.10 | 1.03 | 0.37 |
| 8,765.00 | 91.98 | 272.59 | 7,298.04 | -256.38 | -1,284.08 | -892.72 | 1.46 | 1.39 | 0.46 |
| 8,860.00 | 92.42 | 270.92 | 7,294.40 | -253.47 | -1,378.96 | -971.45 | 1.82 | 0.46 | -1.76 |
| 8,954.00 | 89.96 | 271.62 | 7,292.44 | -251.39 | -1,472.91 | -1,048.93 | 2.72 | -2.62 | 0.74 |
| 9,049.00 | 90.22 | 270.74 | 7,292.29 | -249.43 | -1,567.89 | -1,127.18 | 0.97 | 0.27 | -0.93 |
| 9,144.00 | 89.16 | 272.68 | 7,292.81 | -246.60 | -1,662.84 | -1,205.92 | 2.33 | -1.12 | 2.04 |
| 9,239.00 | 89.78 | 272.94 | 7,293.69 | -241.94 | -1,757.72 | -1,285.66 | 0.71 | 0.65 | 0.27 |
| 9,333.00 | 88.55 | 272.50 | 7,295.06 | -237.48 | -1,851.60 | -1,364.48 | 1.39 | -1.31 | -0.47 |
| 9,428.00 | 89.52 | 272.68 | 7,296.66 | -233.19 | -1,946.49 | -1,444.02 | 1.04 | 1.02 | 0.19 |
| 9,523.00 | 87.49 | 272.15 | 7,299.14 | -229.19 | -2,041.37 | -1,523.38 | 2.21 | -2.14 | -0.56 |
| 9,618.00 | 88.37 | 272.24 | 7,302.57 | -225.55 | -2,136.23 | -1,602.52 | 0.93 | 0.93 | 0.09 |
| 9,713.00 | 89.34 | 272.85 | 7,304.46 | -221.33 | -2,231.12 | -1,682.01 | 1.21 | 1.02 | 0.64 |
| 9,807.00 | 89.69 | 272.68 | 7,305.26 | -216.80 | -2,325.01 | -1,760.87 | 0.41 | 0.37 | -0.18 |
| 9,902.00 | 88.11 | 270.92 | 7,307.08 | -213.81 | -2,419.94 | -1,839.68 | 2.49 | -1.66 | -1.85 |
| 9,997.00 | 88.99 | 270.66 | 7,309.49 | -212.51 | -2,514.90 | -1,917.53 | 0.97 | 0.93 | -0.27 |
| 10,091.00 | 89.78 | 270.66 | 7,310.50 | -211.42 | -2,608.88 | -1,994.47 | 0.84 | 0.84 | 0.00 |
| 10,186.00 | 90.92 | 270.22 | 7,309.92 | -210.69 | -2,703.88 | -2,072.01 | 1.29 | 1.20 | -0.46 |
| 10,281.00 | 89.34 | 269.95 | 7,309.70 | -210.55 | -2,798.87 | -2,149.21 | 1.69 | -1.66 | -0.28 |
| 10,376.00 | 90.92 | 269.86 | 7,309.49 | -210.71 | -2,893.87 | -2,226.24 | 1.67 | 1.66 | -0.09 |
| 10,470.00 | 89.96 | 271.71 | 7,308.76 | -209.42 | -2,987.85 | -2,303.29 | 2.22 | -1.02 | 1.97 |
| 10,565.00 | 90.48 | 271.71 | 7,308.40 | -206.59 | -3,082.81 | -2,382.03 | 0.55 | 0.55 | 0.00 |
| 10,660.00 | 89.87 | 272.68 | 7,308.11 | -202.95 | -3,177.74 | -2,461.22 | 1.21 | -0.64 | 1.02 |
| 10,755.00 | 90.92 | 273.12 | 7,307.45 | -198.14 | -3,272.61 | -2,541.04 | 1.20 | 1.11 | 0.46 |
| 10,850.00 | 88.02 | 273.73 | 7,308.33 | -192.47 | -3,367.43 | -2,621.33 | 3.12 | -3.05 | 0.64 |
| 10,945.00 | 87.76 | 273.73 | 7,311.83 | -186.29 | -3,462.16 | -2,701.84 | 0.27 | -0.27 | 0.00 |
| Last Svy | | | | | | | | | |
| 11,040.00 | 86.26 | 270.66 | 7,316.79 | -182.66 | -3,556.95 | -2,780.91 | 3.59 | -1.58 | -3.23 |
| Proj Svy | | | | | | | | | |
| 11,175.00 | 86.26 | 270.66 | 7,325.59 | -181.11 | -3,691.65 | -2,891.17 | 0.00 | 0.00 | 0.00 |



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|------------------|-----------------------|-------------------------------------|---------------------------------|
| Company: | Extraction Oil & Gas | Local Co-ordinate Reference: | Well Burroughs South 13 |
| 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 13 | North Reference: | True |
| Wellbore: | Burroughs South 13 | Survey Calculation Method: | Minimum Curvature |
| Design: | Burroughs South 13 OH | Database: | EDM 5000.14 Single User Db |

| Survey Annotations | | | | |
|---------------------------|---------------------------|-------------------|---------------|----------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 11,040.00 | 7,316.79 | -182.66 | -3,556.95 | Last Svy |
| 11,175.00 | 7,325.59 | -181.11 | -3,691.65 | Proj Svy |

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