

EXTRACTION OIL & GAS

Broomfield County

Sec 9-T1S-R68W

UNITED B S16-20-16C

OWB

Design: FINAL SURVEY

Standard Survey Report

12 January, 2022



Project: Broomfield County
Site: Sec 9-T1S-R68W
Well: UNITED B S16-20-16C
Wellbore: OWB
Design: FINAL SURVEY

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



Azimuths to True North
Magnetic North: 7.97°
Magnetic Field
Strength: 51745.9nT
Dip Angle: 66.30°
Date: 2/4/2021
Model: IGRF2020

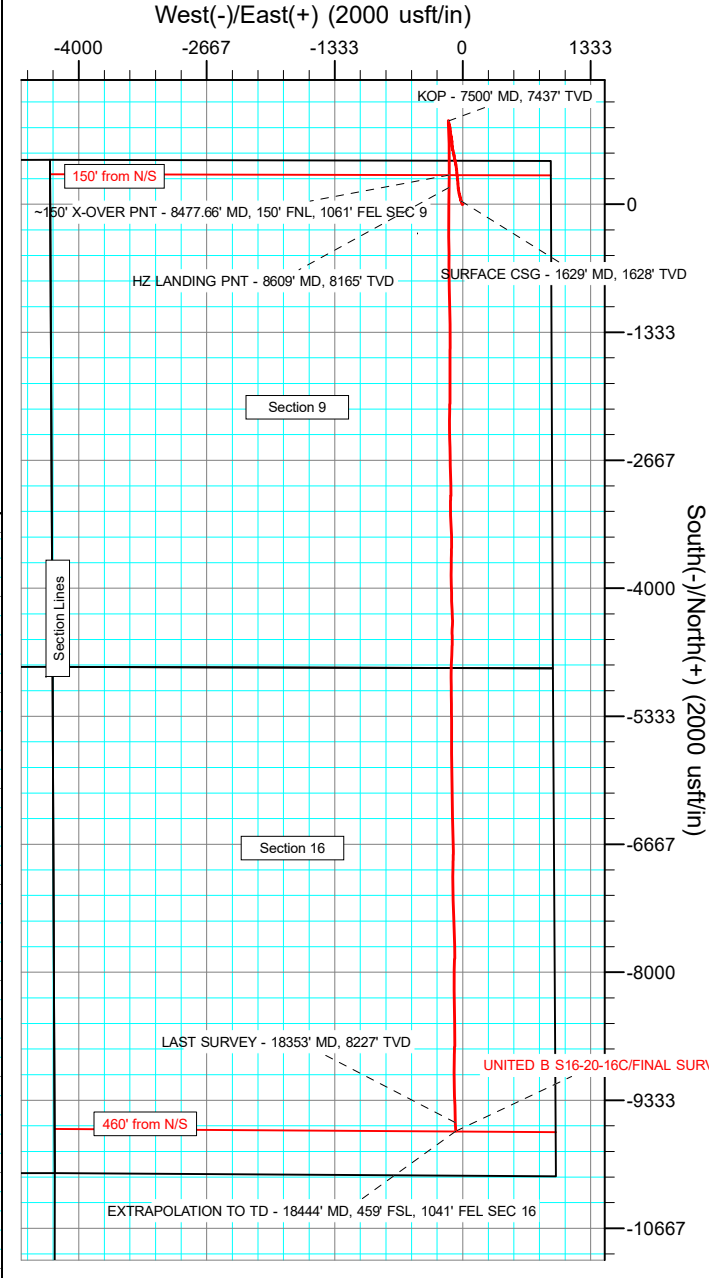
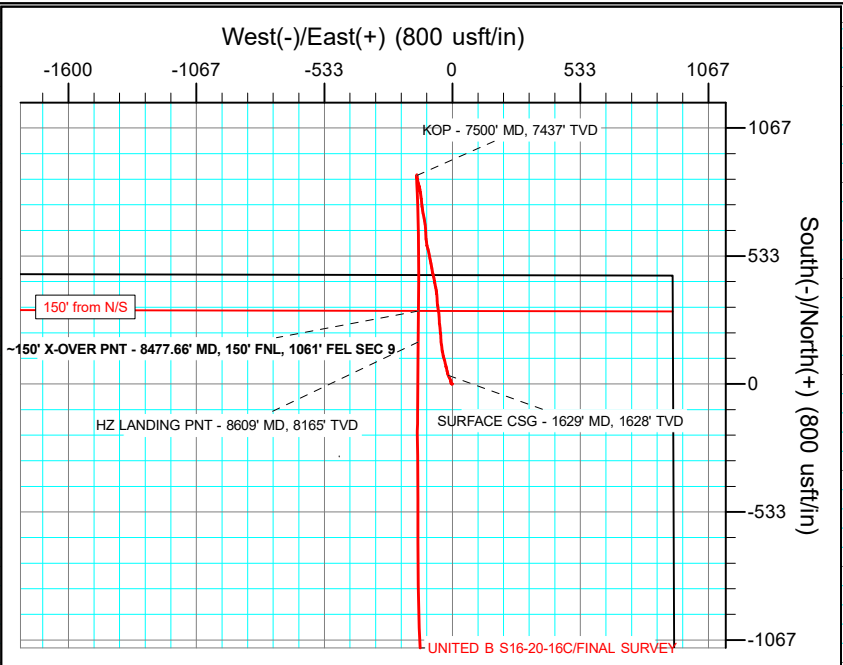
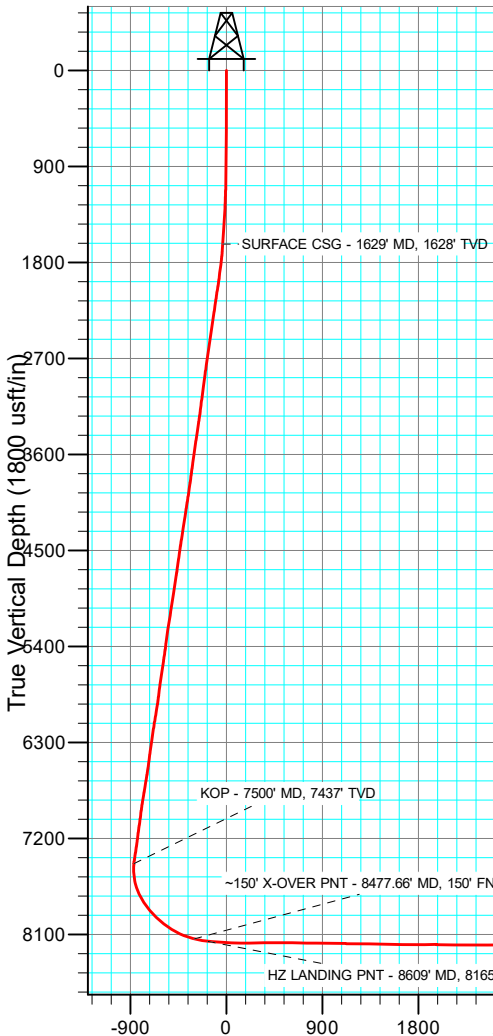
WELL DETAILS: UNITED B S16-20-16C

| | | | | | | | |
|-------|-------|------------|------------|-------------|--------------|------|--|
| | | 5254.00 | | | | | |
| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot | |
| 0.00 | 0.00 | 1237933.55 | 3139965.88 | 39.985430°N | 105.000500°W | | |

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSec | Departure | Annotation |
|----------|-------|--------|---------|----------|---------|---------|-----------|---|
| 1629.00 | 4.04 | 339.51 | 1627.93 | 35.35 | -16.72 | -35.22 | 44.76 | SURFACE CSG - 1629' MD, 1628' TVD |
| 7500.00 | 6.06 | 352.55 | 7436.97 | 868.90 | -147.44 | -867.76 | 890.23 | KOP - 7500' MD, 7437' TVD |
| 8477.66 | 75.70 | 180.55 | 8141.13 | 304.16 | -141.49 | -303.08 | 1464.30 | ~150' X-OVER PNT - 8477.66' MD, 150' FNL, 1061' FEL SEC 9 |
| 8609.00 | 83.93 | 180.42 | 8164.57 | 175.04 | -142.07 | -173.97 | 1593.44 | HZ LANDING PNT - 8609' MD, 8165' TVD |
| 18353.00 | 91.05 | 177.93 | 8226.72 | -9564.42 | -76.10 | 9564.72 | 11335.26 | LAST SURVEY - 18353' MD, 8227' TVD |
| 18444.00 | 91.05 | 177.93 | 8225.05 | -9655.34 | -72.81 | 9655.62 | 11426.24 | EXTRAPOLATION TO TD - 18444' MD, 459' FSL, 1041' FEL SEC 16 |

SHL:
454' FNL, 920' FEL
Sec 9-T1S-R68W
150' SETBACK X-OVER:
150' FNL, 1061' FEL
Sec 9-T1S-R68W
BHL:
459' FSL, 1041' FEL
Sec 16-T1S-R68W



Vertical Section at 180.43° (1800 usft/in)

Survey Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

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

| | | | | | | | |
|-----------------------|----------|----------------|--------------|--------|------------|-------------------|--------|
| Site | | Sec 9-T1S-R68W | | | | | |
| Site Position: | | Northing: | 1,238,372.37 | usft | Latitude: | 39.986700°N | |
| From: | Lat/Long | Easting: | 3,135,664.83 | usft | Longitude: | 105.015841°W | |
| Position Uncertainty: | 0.00 | usft | Slot Radius: | 13.200 | in | Grid Convergence: | 0.31 ° |

| Well | | UNITED B S16-20-16C | | | | |
|----------------------|-------|---------------------|---------------------|-------------------|---------------|---------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,237,933.55 usft | Latitude: | 39.985430°N |
| | +E/-W | 0.00 usft | Easting: | 3,139,965.88 usft | Longitude: | 105.000500°W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 5,254.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OWB | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2020 | 2/4/2021 | 7.97 | 66.30 | 51,745.91587231 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | FINAL SURVEY | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 180.43 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|---------------------|--|
| Survey Program | Date | 1/12/2022 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 135.00 | 1,569.00 | SURFACE (OWB) | MWD OWSG | OWSG MWD - Standard | |
| 1,675.00 | 18,444.00 | FINAL SURVEY (OWB) | MWD OWSG | OWSG MWD - Standard | |

| | | | | | | | | | | |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|------------------------------|-----------------------------|----------------------------|--|
| Survey | | | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 135.00 | 0.83 | 204.67 | 135.00 | -0.89 | -0.41 | 0.89 | 0.61 | 0.61 | 0.00 | |
| 227.00 | 0.35 | 311.11 | 226.99 | -1.31 | -0.90 | 1.32 | 1.07 | -0.52 | 115.70 | |
| 318.00 | 0.21 | 318.40 | 317.99 | -1.00 | -1.22 | 1.01 | 0.16 | -0.15 | 8.01 | |
| 407.00 | 0.39 | 317.52 | 406.99 | -0.66 | -1.53 | 0.67 | 0.20 | 0.20 | -0.99 | |
| 496.00 | 0.61 | 321.04 | 495.99 | -0.06 | -2.03 | 0.08 | 0.25 | 0.25 | 3.96 | |
| 586.00 | 0.74 | 340.29 | 585.98 | 0.85 | -2.53 | -0.84 | 0.29 | 0.14 | 21.39 | |
| 675.00 | 1.40 | 330.00 | 674.96 | 2.34 | -3.27 | -2.31 | 0.77 | 0.74 | -11.56 | |
| 764.00 | 0.65 | 292.21 | 763.95 | 3.47 | -4.28 | -3.44 | 1.09 | -0.84 | -42.46 | |
| 854.00 | 0.52 | 303.02 | 853.95 | 3.89 | -5.09 | -3.85 | 0.19 | -0.14 | 12.01 | |

Survey Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Survey | | | | | | | | | |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 943.00 | 1.05 | 283.77 | 942.94 | 4.30 | -6.22 | -4.25 | 0.66 | 0.60 | -21.63 |
| 1,033.00 | 1.31 | 11.05 | 1,032.92 | 5.51 | -6.83 | -5.45 | 1.82 | 0.29 | 96.98 |
| 1,121.00 | 1.65 | 34.07 | 1,120.89 | 7.54 | -5.93 | -7.50 | 0.77 | 0.39 | 26.16 |
| 1,211.00 | 2.41 | 351.01 | 1,210.84 | 10.49 | -5.50 | -10.44 | 1.83 | 0.84 | -47.84 |
| 1,300.00 | 3.55 | 333.78 | 1,299.72 | 14.81 | -7.01 | -14.75 | 1.62 | 1.28 | -19.36 |
| 1,390.00 | 4.04 | 332.82 | 1,389.52 | 20.13 | -9.69 | -20.05 | 0.55 | 0.54 | -1.07 |
| 1,480.00 | 3.99 | 330.97 | 1,479.30 | 25.68 | -12.65 | -25.59 | 0.15 | -0.06 | -2.06 |
| 1,569.00 | 4.08 | 339.85 | 1,568.08 | 31.36 | -15.25 | -31.25 | 0.71 | 0.10 | 9.98 |
| 1,629.00 | 4.04 | 339.51 | 1,627.93 | 35.35 | -16.72 | -35.22 | 0.08 | -0.07 | -0.56 |
| SURFACE CSG - 1629' MD, 1628' TVD | | | | | | | | | |
| 1,675.00 | 4.01 | 339.25 | 1,673.82 | 38.37 | -17.86 | -38.23 | 0.08 | -0.07 | -0.57 |
| 1,764.00 | 6.21 | 346.09 | 1,762.46 | 45.95 | -20.12 | -45.80 | 2.56 | 2.47 | 7.69 |
| 1,853.00 | 7.56 | 347.41 | 1,850.82 | 56.34 | -22.55 | -56.17 | 1.53 | 1.52 | 1.48 |
| 1,942.00 | 7.46 | 344.66 | 1,939.05 | 67.63 | -25.36 | -67.43 | 0.42 | -0.11 | -3.09 |
| 2,031.00 | 9.43 | 347.73 | 2,027.09 | 80.32 | -28.43 | -80.11 | 2.27 | 2.21 | 3.45 |
| 2,121.00 | 9.12 | 345.90 | 2,115.91 | 94.45 | -31.74 | -94.20 | 0.48 | -0.34 | -2.03 |
| 2,210.00 | 8.23 | 341.38 | 2,203.89 | 107.32 | -35.49 | -107.05 | 1.26 | -1.00 | -5.08 |
| 2,299.00 | 8.91 | 350.39 | 2,291.90 | 120.16 | -38.68 | -119.86 | 1.69 | 0.76 | 10.12 |
| 2,388.00 | 8.34 | 347.01 | 2,379.90 | 133.24 | -41.28 | -132.93 | 0.86 | -0.64 | -3.80 |
| 2,477.00 | 8.97 | 355.03 | 2,467.88 | 146.44 | -43.33 | -146.11 | 1.53 | 0.71 | 9.01 |
| 2,566.00 | 8.32 | 351.97 | 2,555.87 | 159.73 | -44.83 | -159.39 | 0.89 | -0.73 | -3.44 |
| 2,655.00 | 7.49 | 350.16 | 2,644.03 | 171.82 | -46.72 | -171.47 | 0.97 | -0.93 | -2.03 |
| 2,745.00 | 8.56 | 358.86 | 2,733.15 | 184.30 | -47.86 | -183.93 | 1.80 | 1.19 | 9.67 |
| 2,834.00 | 8.04 | 357.28 | 2,821.22 | 197.14 | -48.28 | -196.77 | 0.64 | -0.58 | -1.78 |
| 2,923.00 | 7.01 | 353.34 | 2,909.45 | 208.75 | -49.21 | -208.37 | 1.29 | -1.16 | -4.43 |
| 3,012.00 | 8.16 | 355.92 | 2,997.67 | 220.45 | -50.29 | -220.06 | 1.35 | 1.29 | 2.90 |
| 3,101.00 | 7.51 | 353.74 | 3,085.84 | 232.53 | -51.37 | -232.13 | 0.80 | -0.73 | -2.45 |
| 3,190.00 | 6.87 | 350.73 | 3,174.14 | 243.56 | -52.86 | -243.16 | 0.83 | -0.72 | -3.38 |
| 3,279.00 | 8.74 | 358.39 | 3,262.31 | 255.58 | -53.91 | -255.16 | 2.40 | 2.10 | 8.61 |
| 3,368.00 | 7.71 | 356.49 | 3,350.39 | 268.30 | -54.47 | -267.88 | 1.20 | -1.16 | -2.13 |
| 3,457.00 | 9.43 | 356.04 | 3,438.40 | 281.53 | -55.34 | -281.10 | 1.93 | 1.93 | -0.51 |
| 3,546.00 | 8.16 | 352.24 | 3,526.35 | 295.06 | -56.69 | -294.63 | 1.57 | -1.43 | -4.27 |
| 3,635.00 | 7.26 | 349.74 | 3,614.54 | 306.85 | -58.55 | -306.40 | 1.08 | -1.01 | -2.81 |
| 3,724.00 | 8.62 | 352.47 | 3,702.69 | 319.00 | -60.42 | -318.54 | 1.59 | 1.53 | 3.07 |
| 3,813.00 | 7.06 | 352.14 | 3,790.86 | 331.03 | -62.04 | -330.55 | 1.75 | -1.75 | -0.37 |
| 3,902.00 | 8.86 | 357.19 | 3,879.00 | 343.30 | -63.13 | -342.81 | 2.17 | 2.02 | 5.67 |
| 3,991.00 | 7.74 | 356.80 | 3,967.06 | 356.13 | -63.80 | -355.64 | 1.26 | -1.26 | -0.44 |
| 4,080.00 | 9.70 | 354.06 | 4,055.03 | 369.57 | -64.91 | -369.07 | 2.25 | 2.20 | -3.08 |
| 4,169.00 | 8.01 | 353.30 | 4,142.96 | 383.19 | -66.41 | -382.67 | 1.90 | -1.90 | -0.85 |
| 4,257.00 | 9.67 | 348.89 | 4,229.92 | 396.53 | -68.55 | -396.00 | 2.04 | 1.89 | -5.01 |
| 4,346.00 | 8.32 | 347.95 | 4,317.82 | 410.16 | -71.33 | -409.61 | 1.53 | -1.52 | -1.06 |
| 4,435.00 | 9.64 | 351.42 | 4,405.73 | 423.83 | -73.79 | -423.26 | 1.60 | 1.48 | 3.90 |
| 4,524.00 | 7.68 | 347.26 | 4,493.71 | 437.00 | -76.21 | -436.41 | 2.31 | -2.20 | -4.67 |

Survey Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Survey | | | | | | | | | |
|---------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,614.00 | 9.06 | 347.79 | 4,582.75 | 449.79 | -79.04 | -449.18 | 1.54 | 1.53 | 0.59 |
| 4,702.00 | 7.53 | 345.26 | 4,669.83 | 462.14 | -81.97 | -461.51 | 1.79 | -1.74 | -2.87 |
| 4,791.00 | 9.47 | 351.64 | 4,757.85 | 475.02 | -84.52 | -474.37 | 2.42 | 2.18 | 7.17 |
| 4,881.00 | 8.10 | 348.47 | 4,846.79 | 488.56 | -86.86 | -487.89 | 1.61 | -1.52 | -3.52 |
| 4,970.00 | 9.60 | 350.25 | 4,934.73 | 502.02 | -89.37 | -501.33 | 1.71 | 1.69 | 2.00 |
| 5,059.00 | 8.15 | 347.34 | 5,022.66 | 515.49 | -92.01 | -514.78 | 1.71 | -1.63 | -3.27 |
| 5,148.00 | 9.57 | 350.06 | 5,110.60 | 528.93 | -94.67 | -528.21 | 1.66 | 1.60 | 3.06 |
| 5,237.00 | 9.04 | 348.82 | 5,198.43 | 543.08 | -97.31 | -542.33 | 0.64 | -0.60 | -1.39 |
| 5,326.00 | 8.72 | 345.45 | 5,286.36 | 556.47 | -100.36 | -555.70 | 0.69 | -0.36 | -3.79 |
| 5,415.00 | 7.24 | 342.83 | 5,374.49 | 568.36 | -103.71 | -567.56 | 1.71 | -1.66 | -2.94 |
| 5,437.00 | 7.06 | 343.49 | 5,396.32 | 570.98 | -104.50 | -570.18 | 0.90 | -0.82 | 3.00 |
| 5,526.00 | 9.04 | 353.78 | 5,484.45 | 583.18 | -106.81 | -582.36 | 2.74 | 2.22 | 11.56 |
| 5,616.00 | 8.05 | 350.18 | 5,573.45 | 596.42 | -108.65 | -595.58 | 1.25 | -1.10 | -4.00 |
| 5,705.00 | 8.91 | 357.33 | 5,661.48 | 609.44 | -110.04 | -608.59 | 1.53 | 0.97 | 8.03 |
| 5,794.00 | 8.10 | 357.59 | 5,749.50 | 622.59 | -110.62 | -621.74 | 0.91 | -0.91 | 0.29 |
| 5,883.00 | 6.52 | 356.36 | 5,837.77 | 633.90 | -111.21 | -633.04 | 1.78 | -1.78 | -1.38 |
| 5,972.00 | 8.60 | 357.58 | 5,925.99 | 645.59 | -111.81 | -644.73 | 2.34 | 2.34 | 1.37 |
| 6,061.00 | 9.82 | 352.42 | 6,013.84 | 659.76 | -113.09 | -658.89 | 1.65 | 1.37 | -5.80 |
| 6,150.00 | 9.13 | 351.06 | 6,101.63 | 674.26 | -115.19 | -673.38 | 0.82 | -0.78 | -1.53 |
| 6,239.00 | 7.89 | 350.75 | 6,189.65 | 687.27 | -117.27 | -686.36 | 1.39 | -1.39 | -0.35 |
| 6,328.00 | 9.19 | 348.13 | 6,277.66 | 700.25 | -119.71 | -699.33 | 1.52 | 1.46 | -2.94 |
| 6,417.00 | 8.23 | 348.88 | 6,365.63 | 713.46 | -122.40 | -712.52 | 1.09 | -1.08 | 0.84 |
| 6,506.00 | 7.02 | 351.44 | 6,453.84 | 725.09 | -124.44 | -724.13 | 1.41 | -1.36 | 2.88 |
| 6,595.00 | 8.18 | 354.06 | 6,542.06 | 736.76 | -125.91 | -735.79 | 1.36 | 1.30 | 2.94 |
| 6,684.00 | 10.02 | 352.00 | 6,629.94 | 750.73 | -127.64 | -749.75 | 2.10 | 2.07 | -2.31 |
| 6,773.00 | 8.66 | 356.24 | 6,717.76 | 765.08 | -129.16 | -764.09 | 1.71 | -1.53 | 4.76 |
| 6,862.00 | 10.05 | 352.03 | 6,805.57 | 779.46 | -130.67 | -778.45 | 1.74 | 1.56 | -4.73 |
| 6,951.00 | 8.62 | 351.04 | 6,893.39 | 793.74 | -132.79 | -792.72 | 1.62 | -1.61 | -1.11 |
| 7,040.00 | 6.83 | 350.92 | 6,981.58 | 805.56 | -134.66 | -804.52 | 2.01 | -2.01 | -0.13 |
| 7,129.00 | 9.02 | 345.49 | 7,069.73 | 817.54 | -137.25 | -816.48 | 2.60 | 2.46 | -6.10 |
| 7,218.00 | 7.20 | 346.60 | 7,157.83 | 829.72 | -140.29 | -828.64 | 2.05 | -2.04 | 1.25 |
| 7,307.00 | 7.94 | 344.11 | 7,246.06 | 841.06 | -143.26 | -839.95 | 0.91 | 0.83 | -2.80 |
| 7,396.00 | 9.39 | 353.41 | 7,334.04 | 854.18 | -145.78 | -853.06 | 2.26 | 1.63 | 10.45 |
| 7,486.00 | 7.43 | 353.84 | 7,423.07 | 867.26 | -147.25 | -866.13 | 2.18 | -2.18 | 0.48 |
| 7,500.00 | 6.06 | 352.55 | 7,436.97 | 868.90 | -147.44 | -867.76 | 9.83 | -9.77 | -9.23 |
| KOP - 7500' MD, 7437' TVD | | | | | | | | | |
| 7,575.00 | 1.54 | 207.99 | 7,511.85 | 871.94 | -148.43 | -870.79 | 9.83 | -6.03 | -192.74 |
| 7,664.00 | 12.42 | 179.97 | 7,600.07 | 861.28 | -148.98 | -860.13 | 12.45 | 12.22 | -31.48 |
| 7,753.00 | 21.60 | 177.20 | 7,685.09 | 835.29 | -148.18 | -834.15 | 10.35 | 10.31 | -3.11 |
| 7,842.00 | 31.03 | 176.75 | 7,764.77 | 795.93 | -146.07 | -794.81 | 10.60 | 10.60 | -0.51 |
| 7,931.00 | 36.20 | 177.31 | 7,838.87 | 746.75 | -143.54 | -745.64 | 5.82 | 5.81 | 0.63 |
| 8,020.00 | 42.78 | 179.80 | 7,907.52 | 690.20 | -142.20 | -689.11 | 7.60 | 7.39 | 2.80 |
| 8,109.00 | 48.68 | 179.49 | 7,969.62 | 626.50 | -141.79 | -625.42 | 6.63 | 6.63 | -0.35 |
| 8,198.00 | 55.46 | 179.07 | 8,024.29 | 556.35 | -140.90 | -555.27 | 7.63 | 7.62 | -0.47 |

Survey Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 8,287.00 | 60.02 | 180.29 | 8,071.79 | 481.11 | -140.50 | -480.04 | 5.25 | 5.12 | 1.37 |
| 8,377.00 | 68.85 | 180.14 | 8,110.59 | 400.00 | -140.80 | -398.93 | 9.81 | 9.81 | -0.17 |
| 8,466.00 | 75.00 | 180.63 | 8,138.19 | 315.44 | -141.37 | -314.36 | 6.93 | 6.91 | 0.55 |
| 8,477.66 | 75.70 | 180.55 | 8,141.13 | 304.16 | -141.49 | -303.08 | 6.04 | 6.00 | -0.70 |
| ~150' X-OVER PNT - 8477.66' MD, 150' FNL, 1061' FEL SEC 9 | | | | | | | | | |
| 8,555.00 | 80.34 | 180.02 | 8,157.18 | 228.53 | -141.86 | -227.45 | 6.04 | 6.00 | -0.68 |
| 8,609.00 | 83.93 | 180.42 | 8,164.57 | 175.04 | -142.07 | -173.97 | 6.69 | 6.65 | 0.74 |
| HZ LANDING PNT - 8609' MD, 8165' TVD | | | | | | | | | |
| 8,644.00 | 86.26 | 180.68 | 8,167.56 | 140.18 | -142.41 | -139.10 | 6.69 | 6.65 | 0.74 |
| 8,733.00 | 85.71 | 180.36 | 8,173.80 | 51.40 | -143.21 | -50.32 | 0.71 | -0.62 | -0.36 |
| 8,822.00 | 88.49 | 180.81 | 8,178.30 | -37.47 | -144.12 | 38.56 | 3.16 | 3.12 | 0.51 |
| 8,911.00 | 88.74 | 180.61 | 8,180.45 | -126.44 | -145.22 | 127.53 | 0.36 | 0.28 | -0.22 |
| 9,000.00 | 90.76 | 179.99 | 8,180.84 | -215.43 | -145.69 | 216.53 | 2.37 | 2.27 | -0.70 |
| 9,089.00 | 90.74 | 179.33 | 8,179.67 | -304.43 | -145.16 | 305.51 | 0.74 | -0.02 | -0.74 |
| 9,178.00 | 90.85 | 179.10 | 8,178.44 | -393.41 | -143.94 | 394.48 | 0.29 | 0.12 | -0.26 |
| 9,267.00 | 91.28 | 180.02 | 8,176.78 | -482.39 | -143.26 | 483.46 | 1.14 | 0.48 | 1.03 |
| 9,356.00 | 88.81 | 180.20 | 8,176.71 | -571.38 | -143.43 | 572.45 | 2.78 | -2.78 | 0.20 |
| 9,445.00 | 88.47 | 179.53 | 8,178.83 | -660.36 | -143.22 | 661.42 | 0.84 | -0.38 | -0.75 |
| 9,535.00 | 89.22 | 179.50 | 8,180.64 | -750.33 | -142.46 | 751.39 | 0.83 | 0.83 | -0.03 |
| 9,624.00 | 89.41 | 179.56 | 8,181.70 | -839.32 | -141.73 | 840.37 | 0.22 | 0.21 | 0.07 |
| 9,713.00 | 89.38 | 178.68 | 8,182.64 | -928.31 | -140.36 | 929.34 | 0.99 | -0.03 | -0.99 |
| 9,802.00 | 89.26 | 178.17 | 8,183.70 | -1,017.27 | -137.91 | 1,018.28 | 0.59 | -0.13 | -0.57 |
| 9,891.00 | 88.47 | 177.19 | 8,185.46 | -1,106.18 | -134.31 | 1,107.16 | 1.41 | -0.89 | -1.10 |
| 9,980.00 | 89.04 | 178.71 | 8,187.40 | -1,195.09 | -131.13 | 1,196.05 | 1.82 | 0.64 | 1.71 |
| 10,069.00 | 89.80 | 180.18 | 8,188.30 | -1,284.08 | -130.27 | 1,285.03 | 1.86 | 0.85 | 1.65 |
| 10,159.00 | 89.72 | 180.39 | 8,188.67 | -1,374.08 | -130.71 | 1,375.03 | 0.25 | -0.09 | 0.23 |
| 10,248.00 | 88.27 | 180.66 | 8,190.24 | -1,463.06 | -131.53 | 1,464.01 | 1.66 | -1.63 | 0.30 |
| 10,337.00 | 87.84 | 180.53 | 8,193.26 | -1,552.00 | -132.45 | 1,552.96 | 0.50 | -0.48 | -0.15 |
| 10,426.00 | 88.86 | 180.15 | 8,195.82 | -1,640.96 | -132.98 | 1,641.92 | 1.22 | 1.15 | -0.43 |
| 10,515.00 | 90.52 | 179.95 | 8,196.30 | -1,729.96 | -133.06 | 1,730.91 | 1.88 | 1.87 | -0.22 |
| 10,604.00 | 90.54 | 180.05 | 8,195.48 | -1,818.96 | -133.06 | 1,819.91 | 0.11 | 0.02 | 0.11 |
| 10,694.00 | 90.74 | 179.63 | 8,194.47 | -1,908.95 | -132.81 | 1,909.90 | 0.52 | 0.22 | -0.47 |
| 10,783.00 | 87.60 | 180.46 | 8,195.76 | -1,997.93 | -132.88 | 1,998.87 | 3.65 | -3.53 | 0.93 |
| 10,872.00 | 89.29 | 181.13 | 8,198.18 | -2,086.88 | -134.11 | 2,087.84 | 2.04 | 1.90 | 0.75 |
| 10,961.00 | 90.05 | 180.95 | 8,198.69 | -2,175.87 | -135.73 | 2,176.83 | 0.88 | 0.85 | -0.20 |
| 11,050.00 | 90.15 | 180.44 | 8,198.53 | -2,264.86 | -136.81 | 2,265.83 | 0.58 | 0.11 | -0.57 |
| 11,139.00 | 90.21 | 179.47 | 8,198.25 | -2,353.86 | -136.74 | 2,354.82 | 1.09 | 0.07 | -1.09 |
| 11,228.00 | 90.80 | 178.56 | 8,197.47 | -2,442.84 | -135.21 | 2,443.79 | 1.22 | 0.66 | -1.02 |
| 11,317.00 | 91.26 | 177.97 | 8,195.87 | -2,531.78 | -132.51 | 2,532.71 | 0.84 | 0.52 | -0.66 |
| 11,406.00 | 88.91 | 179.41 | 8,195.74 | -2,620.75 | -130.48 | 2,621.66 | 3.10 | -2.64 | 1.62 |
| 11,495.00 | 88.85 | 178.50 | 8,197.48 | -2,709.72 | -128.86 | 2,710.61 | 1.02 | -0.07 | -1.02 |
| 11,585.00 | 90.27 | 178.92 | 8,198.17 | -2,799.69 | -126.83 | 2,800.57 | 1.65 | 1.58 | 0.47 |
| 11,673.00 | 90.55 | 178.26 | 8,197.54 | -2,887.66 | -124.66 | 2,888.52 | 0.81 | 0.32 | -0.75 |

Survey Report

| | | | |
|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|-------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 11,762.00 | 90.59 | 179.77 | 8,196.65 | -2,976.64 | -123.13 | 2,977.49 | 1.70 | 0.04 | | 1.70 |
| 11,851.00 | 90.65 | 182.83 | 8,195.69 | -3,065.60 | -125.15 | 3,066.46 | 3.44 | 0.07 | | 3.44 |
| 11,940.00 | 90.23 | 180.63 | 8,195.01 | -3,154.56 | -127.84 | 3,155.43 | 2.52 | -0.47 | | -2.47 |
| 12,029.00 | 88.75 | 177.18 | 8,195.80 | -3,243.52 | -126.14 | 3,244.38 | 4.22 | -1.66 | | -3.88 |
| 12,119.00 | 89.00 | 176.55 | 8,197.57 | -3,333.37 | -121.22 | 3,334.19 | 0.75 | 0.28 | | -0.70 |
| 12,208.00 | 89.14 | 178.22 | 8,199.01 | -3,422.26 | -117.16 | 3,423.05 | 1.88 | 0.16 | | 1.88 |
| 12,297.00 | 89.48 | 179.58 | 8,200.08 | -3,511.23 | -115.45 | 3,512.01 | 1.58 | 0.38 | | 1.53 |
| 12,386.00 | 89.89 | 181.74 | 8,200.57 | -3,600.22 | -116.48 | 3,601.00 | 2.47 | 0.46 | | 2.43 |
| 12,475.00 | 90.39 | 180.65 | 8,200.35 | -3,689.20 | -118.33 | 3,689.99 | 1.35 | 0.56 | | -1.22 |
| 12,564.00 | 89.27 | 181.03 | 8,200.62 | -3,778.19 | -119.64 | 3,778.98 | 1.33 | -1.26 | | 0.43 |
| 12,653.00 | 89.61 | 179.97 | 8,201.49 | -3,867.18 | -120.41 | 3,867.98 | 1.25 | 0.38 | | -1.19 |
| 12,742.00 | 89.16 | 177.25 | 8,202.44 | -3,956.14 | -118.25 | 3,956.92 | 3.10 | -0.51 | | -3.06 |
| 12,831.00 | 86.42 | 179.16 | 8,205.88 | -4,045.02 | -115.47 | 4,045.77 | 3.75 | -3.08 | | 2.15 |
| 12,920.00 | 87.73 | 179.02 | 8,210.42 | -4,133.89 | -114.06 | 4,134.63 | 1.48 | 1.47 | | -0.16 |
| 13,009.00 | 89.25 | 177.10 | 8,212.76 | -4,222.80 | -111.04 | 4,223.52 | 2.75 | 1.71 | | -2.16 |
| 13,098.00 | 90.60 | 178.91 | 8,212.88 | -4,311.74 | -107.95 | 4,312.43 | 2.54 | 1.52 | | 2.03 |
| 13,187.00 | 90.54 | 181.19 | 8,211.99 | -4,400.73 | -108.02 | 4,401.42 | 2.56 | -0.07 | | 2.56 |
| 13,276.00 | 90.26 | 179.16 | 8,211.37 | -4,489.72 | -108.30 | 4,490.41 | 2.30 | -0.31 | | -2.28 |
| 13,365.00 | 91.81 | 182.20 | 8,209.76 | -4,578.69 | -109.35 | 4,579.38 | 3.83 | 1.74 | | 3.42 |
| 13,454.00 | 90.59 | 182.49 | 8,207.90 | -4,667.59 | -112.99 | 4,668.31 | 1.41 | -1.37 | | 0.33 |
| 13,543.00 | 91.03 | 182.31 | 8,206.64 | -4,756.51 | -116.72 | 4,757.25 | 0.53 | 0.49 | | -0.20 |
| 13,633.00 | 90.68 | 181.47 | 8,205.30 | -4,846.45 | -119.69 | 4,847.21 | 1.01 | -0.39 | | -0.93 |
| 13,722.00 | 89.04 | 180.25 | 8,205.52 | -4,935.43 | -121.02 | 4,936.20 | 2.30 | -1.84 | | -1.37 |
| 13,810.00 | 88.04 | 178.19 | 8,207.76 | -5,023.39 | -119.82 | 5,024.15 | 2.60 | -1.14 | | -2.34 |
| 13,900.00 | 89.88 | 179.52 | 8,209.39 | -5,113.35 | -118.03 | 5,114.09 | 2.52 | 2.04 | | 1.48 |
| 13,989.00 | 90.71 | 179.39 | 8,208.93 | -5,202.34 | -117.18 | 5,203.08 | 0.94 | 0.93 | | -0.15 |
| 14,078.00 | 90.65 | 179.34 | 8,207.88 | -5,291.33 | -116.19 | 5,292.06 | 0.09 | -0.07 | | -0.06 |
| 14,167.00 | 90.63 | 180.30 | 8,206.88 | -5,380.32 | -115.91 | 5,381.05 | 1.08 | -0.02 | | 1.08 |
| 14,256.00 | 91.11 | 179.77 | 8,205.53 | -5,469.31 | -115.97 | 5,470.03 | 0.80 | 0.54 | | -0.60 |
| 14,345.00 | 90.32 | 179.78 | 8,204.42 | -5,558.31 | -115.62 | 5,559.02 | 0.89 | -0.89 | | 0.01 |
| 14,434.00 | 89.41 | 180.03 | 8,204.63 | -5,647.30 | -115.47 | 5,648.01 | 1.06 | -1.02 | | 0.28 |
| 14,523.00 | 87.97 | 179.63 | 8,206.67 | -5,736.28 | -115.21 | 5,736.98 | 1.68 | -1.62 | | -0.45 |
| 14,612.00 | 88.64 | 179.42 | 8,209.30 | -5,825.23 | -114.47 | 5,825.93 | 0.79 | 0.75 | | -0.24 |
| 14,701.00 | 89.34 | 179.13 | 8,210.87 | -5,914.21 | -113.34 | 5,914.90 | 0.85 | 0.79 | | -0.33 |
| 14,790.00 | 88.40 | 179.38 | 8,212.62 | -6,003.19 | -112.19 | 6,003.86 | 1.09 | -1.06 | | 0.28 |
| 14,879.00 | 88.92 | 179.05 | 8,214.70 | -6,092.15 | -110.97 | 6,092.82 | 0.69 | 0.58 | | -0.37 |
| 14,968.00 | 88.11 | 179.98 | 8,217.01 | -6,181.12 | -110.22 | 6,181.77 | 1.39 | -0.91 | | 1.04 |
| 15,057.00 | 88.68 | 179.00 | 8,219.50 | -6,270.08 | -109.42 | 6,270.73 | 1.27 | 0.64 | | -1.10 |
| 15,146.00 | 89.25 | 178.61 | 8,221.11 | -6,359.05 | -107.57 | 6,359.68 | 0.78 | 0.64 | | -0.44 |
| 15,235.00 | 89.90 | 177.40 | 8,221.77 | -6,447.99 | -104.47 | 6,448.59 | 1.54 | 0.73 | | -1.36 |
| 15,324.00 | 89.84 | 177.86 | 8,221.97 | -6,536.91 | -100.79 | 6,537.48 | 0.52 | -0.07 | | 0.52 |
| 15,413.00 | 91.13 | 178.76 | 8,221.22 | -6,625.87 | -98.16 | 6,626.42 | 1.77 | 1.45 | | 1.01 |
| 15,503.00 | 90.48 | 180.13 | 8,219.95 | -6,715.85 | -97.29 | 6,716.39 | 1.68 | -0.72 | | 1.52 |
| 15,592.00 | 89.45 | 182.13 | 8,220.01 | -6,804.83 | -99.05 | 6,805.38 | 2.53 | -1.16 | | 2.25 |

Survey Report

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|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Survey | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 15,681.00 | 89.98 | 181.73 | 8,220.45 | -6,893.77 | -102.04 | 6,894.35 | 0.75 | 0.60 | -0.45 |
| 15,770.00 | 90.85 | 180.61 | 8,219.81 | -6,982.75 | -103.86 | 6,983.34 | 1.59 | 0.98 | -1.26 |
| 15,859.00 | 88.04 | 179.56 | 8,220.67 | -7,071.74 | -103.99 | 7,072.32 | 3.37 | -3.16 | -1.18 |
| 15,948.00 | 88.12 | 178.16 | 8,223.65 | -7,160.67 | -102.22 | 7,161.23 | 1.57 | 0.09 | -1.57 |
| 16,038.00 | 88.47 | 177.56 | 8,226.33 | -7,250.56 | -98.87 | 7,251.10 | 0.77 | 0.39 | -0.67 |
| 16,127.00 | 89.68 | 179.11 | 8,227.77 | -7,339.51 | -96.28 | 7,340.03 | 2.21 | 1.36 | 1.74 |
| 16,216.00 | 90.15 | 178.36 | 8,227.90 | -7,428.49 | -94.32 | 7,428.99 | 0.99 | 0.53 | -0.84 |
| 16,305.00 | 90.81 | 177.17 | 8,227.15 | -7,517.41 | -90.84 | 7,517.89 | 1.53 | 0.74 | -1.34 |
| 16,394.00 | 89.82 | 177.94 | 8,226.66 | -7,606.33 | -87.05 | 7,606.77 | 1.41 | -1.11 | 0.87 |
| 16,483.00 | 91.52 | 178.13 | 8,225.62 | -7,695.27 | -84.00 | 7,695.68 | 1.92 | 1.91 | 0.21 |
| 16,572.00 | 90.96 | 180.27 | 8,223.70 | -7,784.23 | -82.75 | 7,784.64 | 2.48 | -0.63 | 2.40 |
| 16,661.00 | 89.66 | 181.85 | 8,223.21 | -7,873.21 | -84.40 | 7,873.63 | 2.30 | -1.46 | 1.78 |
| 16,750.00 | 89.68 | 181.47 | 8,223.73 | -7,962.17 | -86.98 | 7,962.60 | 0.43 | 0.02 | -0.43 |
| 16,839.00 | 89.96 | 181.20 | 8,224.01 | -8,051.15 | -89.05 | 8,051.59 | 0.44 | 0.31 | -0.30 |
| 16,928.00 | 90.52 | 180.27 | 8,223.63 | -8,140.14 | -90.19 | 8,140.59 | 1.22 | 0.63 | -1.04 |
| 17,017.00 | 91.16 | 179.14 | 8,222.33 | -8,229.13 | -89.74 | 8,229.57 | 1.46 | 0.72 | -1.27 |
| 17,106.00 | 91.36 | 178.62 | 8,220.37 | -8,318.09 | -88.00 | 8,318.52 | 0.63 | 0.22 | -0.58 |
| 17,195.00 | 91.49 | 178.42 | 8,218.16 | -8,407.03 | -85.70 | 8,407.44 | 0.27 | 0.15 | -0.22 |
| 17,284.00 | 90.65 | 179.49 | 8,216.50 | -8,496.00 | -84.08 | 8,496.39 | 1.53 | -0.94 | 1.20 |
| 17,373.00 | 91.28 | 179.03 | 8,215.00 | -8,584.98 | -82.93 | 8,585.36 | 0.88 | 0.71 | -0.52 |
| 17,462.00 | 90.59 | 179.91 | 8,213.55 | -8,673.96 | -82.10 | 8,674.33 | 1.26 | -0.78 | 0.99 |
| 17,552.00 | 89.31 | 182.01 | 8,213.62 | -8,763.94 | -83.61 | 8,764.32 | 2.73 | -1.42 | 2.33 |
| 17,640.00 | 87.92 | 181.90 | 8,215.75 | -8,851.86 | -86.61 | 8,852.26 | 1.58 | -1.58 | -0.12 |
| 17,730.00 | 87.27 | 180.86 | 8,219.53 | -8,941.75 | -88.78 | 8,942.17 | 1.36 | -0.72 | -1.16 |
| 17,819.00 | 87.94 | 180.14 | 8,223.25 | -9,030.67 | -89.55 | 9,031.09 | 1.10 | 0.75 | -0.81 |
| 17,908.00 | 88.79 | 179.31 | 8,225.79 | -9,119.63 | -89.13 | 9,120.05 | 1.33 | 0.96 | -0.93 |
| 17,997.00 | 89.95 | 178.40 | 8,226.76 | -9,208.61 | -87.35 | 9,209.01 | 1.66 | 1.30 | -1.02 |
| 18,086.00 | 90.44 | 177.88 | 8,226.46 | -9,297.56 | -84.46 | 9,297.93 | 0.80 | 0.55 | -0.58 |
| 18,175.00 | 89.20 | 178.52 | 8,226.74 | -9,386.51 | -81.66 | 9,386.86 | 1.57 | -1.39 | 0.72 |
| 18,264.00 | 89.89 | 178.19 | 8,227.45 | -9,475.47 | -79.11 | 9,475.80 | 0.86 | 0.78 | -0.37 |
| 18,353.00 | 91.05 | 177.93 | 8,226.72 | -9,564.42 | -76.10 | 9,564.72 | 1.34 | 1.30 | -0.29 |
| LAST SURVEY - 18353' MD, 8227' TVD | | | | | | | | | |
| 18,444.00 | 91.05 | 177.93 | 8,225.05 | -9,655.34 | -72.81 | 9,655.62 | 0.00 | 0.00 | 0.00 |
| EXTRAPOLATION TO TD - 18444' MD, 459' FSL, 1041' FEL SEC 16 | | | | | | | | | |

Survey Report

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|------------------|----------------------|-------------------------------------|--------------------------|
| Company: | EXTRACTION OIL & GAS | Local Co-ordinate Reference: | Well UNITED B S16-20-16C |
| Project: | Broomfield County | TVD Reference: | KB 28' @ 5282.00usft |
| Site: | Sec 9-T1S-R68W | MD Reference: | KB 28' @ 5282.00usft |
| Well: | UNITED B S16-20-16C | North Reference: | True |
| Wellbore: | OWB | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURVEY | Database: | EDT_32Bit_ODBC |

| Design Targets | | | | | | | | | |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-------------|--------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| UNITED B S16-16C - LF - actual wellpath misses target center by 67.20usft at 8480.86usft MD (8141.92 TVD, 301.06 N, -141.52 E) - Point | 0.00 | 0.00 | 8,155.00 | 304.16 | -207.36 | 1,238,236.54 | 3,139,756.81 | 39.986265°N | 105.001240°W |
| UNITED B S16-16C - PE - actual wellpath misses target center by 82.51usft at 18442.05usft MD (8225.09 TVD, -9653.40 N, -72.88 E) - Point | 0.00 | 0.00 | 8,213.00 | -9,656.13 | -154.46 | 1,228,276.71 | 3,139,865.81 | 39.958922°N | 105.001051°W |

| Design Annotations | | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|---|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 1,629.00 | 1,627.93 | 35.35 | -16.72 | SURFACE CSG - 1629' MD, 1628' TVD | |
| 7,500.00 | 7,436.97 | 868.90 | -147.44 | KOP - 7500' MD, 7437' TVD | |
| 8,477.66 | 8,141.13 | 304.16 | -141.49 | ~150' X-OVER PNT - 8477.66' MD, 150' FNL, 1061' FEL SEC 9 | |
| 8,609.00 | 8,164.57 | 175.04 | -142.07 | HZ LANDING PNT - 8609' MD, 8165' TVD | |
| 18,353.00 | 8,226.72 | -9,564.42 | -76.10 | LAST SURVEY - 18353' MD, 8227' TVD | |
| 18,444.00 | 8,225.05 | -9,655.34 | -72.81 | EXTRAPOLATION TO TD - 18444' MD, 459' FSL, 1041' FEL SEC 16 | |

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