

NOBLE ENERGY, INC

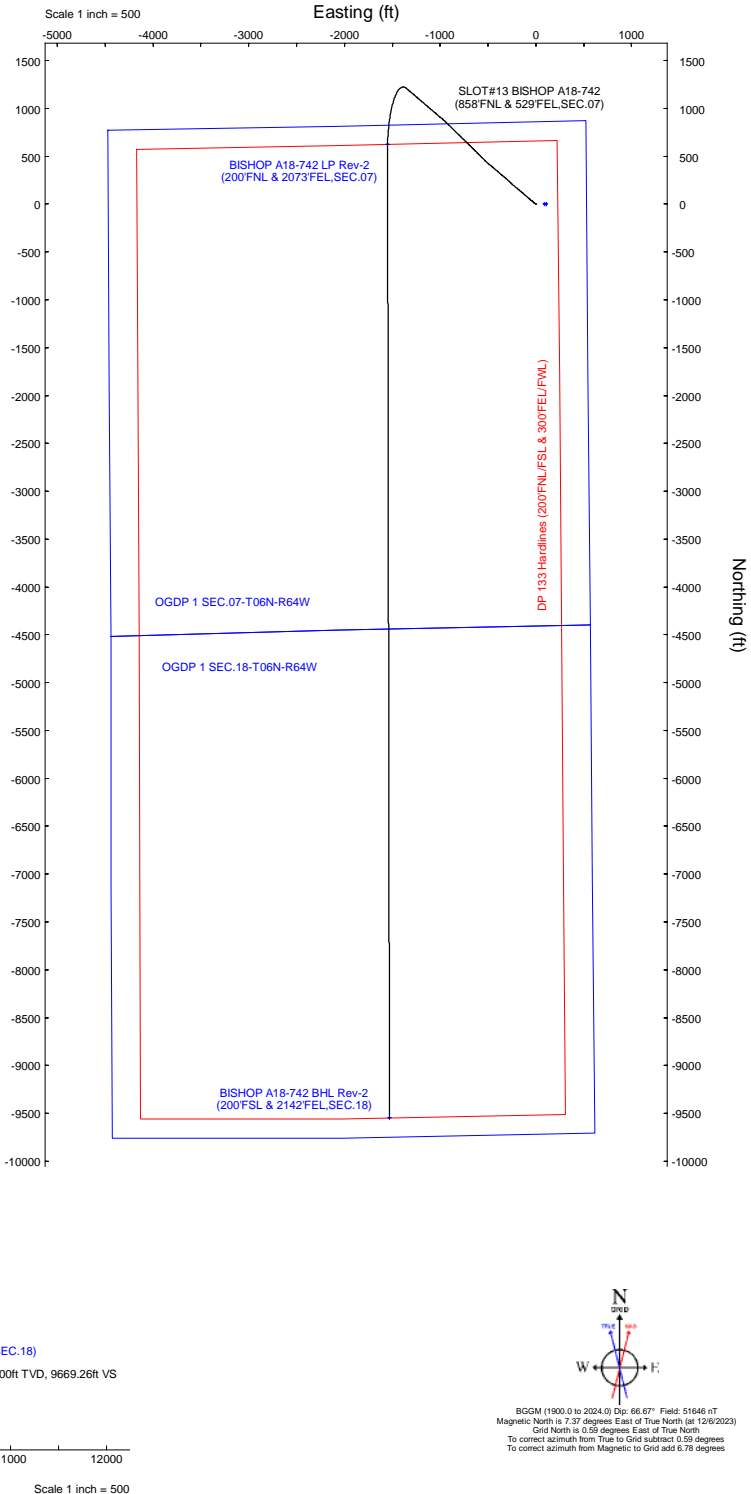
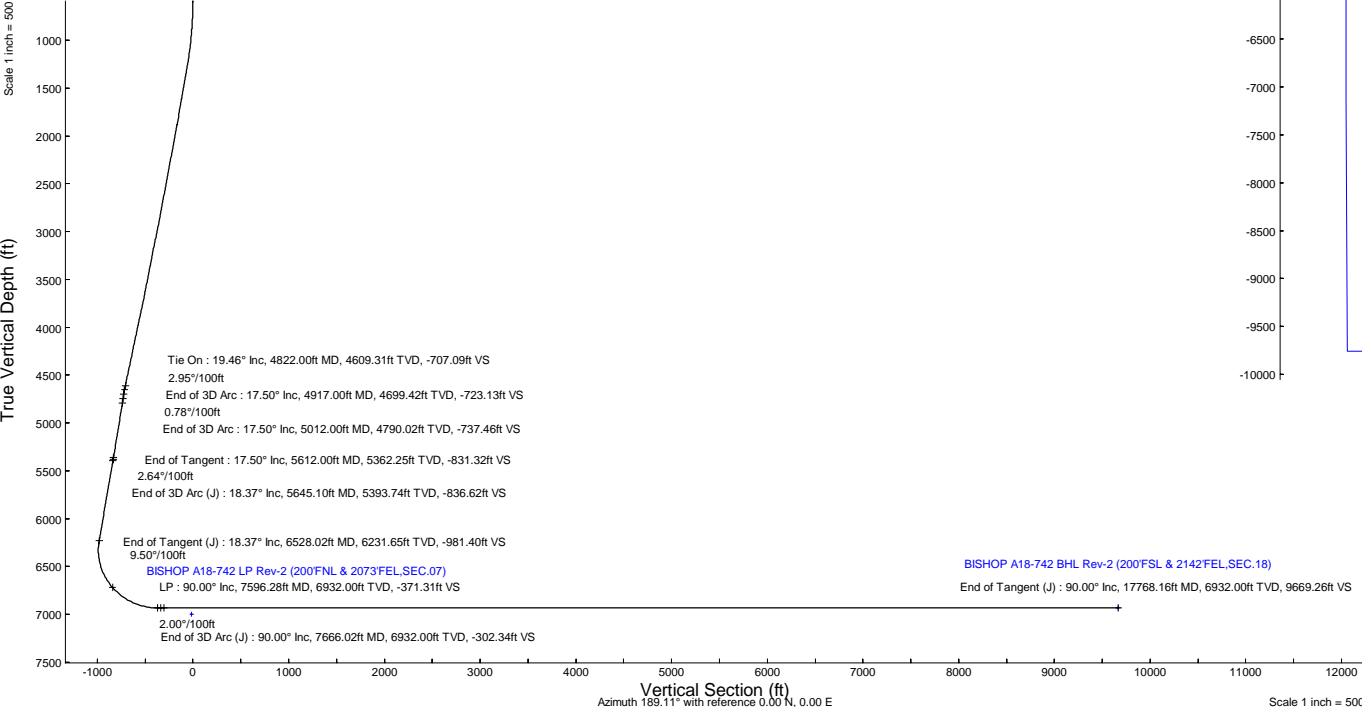
| | | | |
|--|---------------------------------|--|--|
| Location: | COLORADO | Slot: | SLOT#13 BISHOP A18-742 (858FNL & 529FEL, SEC.07) |
| Field: | WELD COUNTY (NOBLE NAD 83 GRID) | Well: | BISHOP A18-742 ST01 |
| Facility: | SEC.07-T06N-R64W | Wellbore: | BISHOP A18-742 ST01 PWB |
| Plot reference wellpath is BISHOP A18-742 ST01 (Rev-A.0) PWP | | | |
| True vertical depths are referenced to RIG (4740'GL+29'KB @4769'RKB) (RKB) | | Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | |
| Reference wellpath measured depths are referenced to RIG (4740'GL+29'KB @4769'RKB) (RKB) | | North Reference: Grid north | |
| RIG (4740'GL+29'KB @4769'RKB) (RKB) to Mean Sea Level: 4769 feet | | Scale: True distance | |
| Mean Sea Level to Ground level (At Slot: SLOT#13 BISHOP A18-742 (858FNL & 529FEL, SEC.07)): 0 feet | | Coordinates are in feet referenced to Slot | |
| Offset wellpath MDs are referenced to each path's default MD datum | | Depths are in feet | |
| | | Created by: martsam01 on 2024-01-01; Database: WA_Denver | |

| Location Information | | | | | |
|---|--------------|--------------|-------------------|--------------------|-----------------|
| Facility Name | | | Grid East (US ft) | Grid North (US ft) | Latitude |
| SEC.07-T06N-R64W | | | 3254380.716 | 1428262.611 | 40°30'19.3680"N |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude |
| SLOT#13 BISHOP A18-742 (858FNL & 529FEL, SEC.07) | 0.36 | -105.96 | 3254274.759 | 1428262.976 | 40°30'19.3624"N |
| RIG (4740'GL+29'KB @4769'RKB) (RKB) to Ground level (At Slot: SLOT#13 BISHOP A18-742 (858FNL & 529FEL, SEC.07)) | | | 4769 | | |
| Mean Sea Level to Ground level (At Slot: SLOT#13 BISHOP A18-742 (858FNL & 529FEL, SEC.07)) | | | 0 | | |
| RIG (4740'GL+29'KB @4769'RKB) (RKB) to Mean Sea Level | | | 4769 | | |

| Well Profile Data | | | | | | | | |
|--------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
| Tie On | 4822.00 | 19.460 | 314.350 | 4609.31 | 869.15 | -954.77 | 0.68 | -707.09 |
| End of 3D Arc | 4917.00 | 17.500 | 308.000 | 4699.42 | 889.01 | -977.35 | 2.95 | -723.13 |
| End of 3D Arc | 5012.00 | 17.500 | 310.452 | 4790.02 | 907.07 | -999.48 | 0.78 | -737.46 |
| End of Tangent | 5612.00 | 17.500 | 310.452 | 5362.25 | 1024.13 | -1136.77 | 0.00 | -831.32 |
| End of 3D Arc (J) | 5645.10 | 18.374 | 310.452 | 5393.74 | 1030.75 | -1144.52 | 2.64 | -836.62 |
| End of Tangent (J) | 6528.02 | 18.374 | 310.452 | 6231.65 | 1211.32 | -1356.30 | 0.00 | -981.40 |
| LP | 7596.28 | 90.000 | 181.280 | 6932.00 | 624.45 | -1549.80 | 9.50 | -371.31 |
| End of 3D Arc (J) | 7666.02 | 90.000 | 179.885 | 6932.00 | 554.71 | -1550.51 | 2.00 | -302.34 |
| End of Tangent (J) | 17768.16 | 90.000 | 179.885 | 6932.00 | -9547.40 | -1530.25 | 0.00 | 9669.26 |

| Targets | | | | | | | | |
|---|----------|----------|--------------|--------------|-------------------|--------------------|-----------------|------------------|
| Name | MD (ft) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| OGDP 1 SEC.07-T06N-R64W | N/A | -3.00 | -0.36 | 105.96 | 3254380.72 | 1428262.61 | 40°30'19.3680"N | 104°35'6.7200"W |
| OGDP 1 SEC.18-T06N-R64W | N/A | -3.00 | -0.36 | 105.96 | 3254380.72 | 1428262.61 | 40°30'19.3680"N | 104°35'6.7200"W |
| BISHOP A18-742 BHL Rev-2 (200FSL & 2142FEL, SEC.18) | 17768.16 | 6932.00 | -9547.40 | -1530.25 | 3252744.56 | 1418715.91 | 40°28'45.2003"N | 104°35'29.1669"W |
| BISHOP A18-742 LP Rev-2 (200FNL & 2073FEL, SEC.07) | 7596.28 | 6932.00 | 624.45 | -1549.80 | 3252725.01 | 1428887.41 | 40°30'25.7100"N | 104°35'28.0708"W |
| DP 133 Hardlines (200FNL/FSL & 300FEL/FWL) | N/A | 6998.00 | -0.17 | 89.83 | 3254364.58 | 1428262.81 | 40°30'19.3716"N | 104°35'6.9288"W |

| Survey Program | | | | | |
|----------------|-------------|---------------|-------------------------|--|-------------------------|
| Start MD (ft) | End MD (ft) | Tool | Model | Log Name/Comment | Wellbore |
| 29.00 | 2022.00 | OWSG MWD rev2 | OWSG MWD rev2 (MS+IFR1) | 13.5" EVO Surface OWSG MWD rev2 (MS + IFR1) <132'-2022'> | BISHOP A18-742 OWB AWB |
| 2022.00 | 4822.00 | OWSG MWD rev2 | OWSG MWD rev2 (MS+IFR1) | 8.5" Lucida OWSG MWD rev2 (MS+IFR1) <2169'-5390'> | BISHOP A18-742 OWB AWB |
| 4822.00 | 17768.16 | OWSG MWD rev2 | OWSG MWD rev2 (MS+IFR1) | | BISHOP A18-742 ST01 PWB |





Planned Wellpath Report
BISHOP A18-742 ST01 (Rev-A.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| REPORT SETUP INFORMATION | | | |
|--------------------------|---|------------------|------------------------|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 6.0 |
| North Reference | Grid | User | Guenaler |
| Scale | 0.999967 | Report Generated | 1/3/2024 at 9:27:28 AM |
| Convergence at slot | 0.59° East | Database | WA_Denver |

| WELLPATH LOCATION | | | | | | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|---------------|
| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 0.36 | -105.96 | 3254274.76 | 1428262.98 | 40.5053840° | -104.5855810° |
| Facility Reference Pt | | | 3254380.72 | 1428262.61 | 40.5053800° | -104.5852000° |
| Field Reference Pt | | | 3000000.00 | 4454105.15 | 48.7761986° | -105.5000000° |

| WELLPATH DATUM | | | |
|--------------------------|------------------------------------|--|-------------------|
| Calculation method | Minimum curvature | RIG (4740'GL+29'KB@4769'RKB) (RKB) to Facility Vertical Datum | 4769.00ft |
| Horizontal Reference Pt | Slot | RIG (4740'GL+29'KB@4769'RKB) (RKB) to Mean Sea Level | 4769.00ft |
| Vertical Reference Pt | RIG (4740'GL+29'KB@4769'RKB) (RKB) | RIG (4740'GL+29'KB@4769'RKB) (RKB) to Ground Level at Slot (SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07)) | 4769.00ft |
| MD Reference Pt | RIG (4740'GL+29'KB@4769'RKB) (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 189.11° |



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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|--------------------|----------------|-------------|-------------------|---------------|--------------|------------|--------------|------------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 0.00† | 0.000 | 280.610 | 0.00 | 0.00 | 0.00 | 0.00 | 40.5053840 | -104.5855810 | 0.00 | |
| 29.00 | 0.000 | 280.610 | 29.00 | 0.00 | 0.00 | 0.00 | 40.5053840 | -104.5855810 | 0.00 | |
| 129.00† | 0.223 | 280.610 | 129.00 | -0.01 | 0.04 | -0.19 | 40.5053841 | -104.5855817 | 0.22 | |
| 132.00 | 0.230 | 280.610 | 132.00 | -0.01 | 0.04 | -0.20 | 40.5053841 | -104.5855817 | 0.22 | |
| 223.00 | 0.060 | 15.420 | 223.00 | -0.06 | 0.12 | -0.37 | 40.5053843 | -104.5855823 | 0.27 | |
| 229.00† | 0.066 | 10.588 | 229.00 | -0.06 | 0.12 | -0.37 | 40.5053844 | -104.5855823 | 0.13 | |
| 316.00 | 0.170 | 345.050 | 316.00 | -0.23 | 0.30 | -0.39 | 40.5053848 | -104.5855824 | 0.13 | |
| 329.00† | 0.140 | 339.633 | 329.00 | -0.26 | 0.33 | -0.40 | 40.5053849 | -104.5855824 | 0.26 | |
| 411.00 | 0.110 | 226.590 | 411.00 | -0.29 | 0.37 | -0.50 | 40.5053850 | -104.5855828 | 0.26 | |
| 429.00† | 0.108 | 255.899 | 429.00 | -0.27 | 0.36 | -0.52 | 40.5053850 | -104.5855829 | 0.31 | |
| 506.00 | 0.280 | 311.250 | 506.00 | -0.34 | 0.46 | -0.74 | 40.5053853 | -104.5855836 | 0.31 | |
| 529.00† | 0.691 | 303.794 | 529.00 | -0.43 | 0.58 | -0.89 | 40.5053856 | -104.5855842 | 1.80 | |
| 600.00 | 1.970 | 300.530 | 599.98 | -1.05 | 1.43 | -2.30 | 40.5053880 | -104.5855892 | 1.80 | |
| 629.00† | 2.537 | 304.515 | 628.95 | -1.51 | 2.05 | -3.26 | 40.5053897 | -104.5855926 | 2.03 | |
| 695.00 | 3.850 | 309.160 | 694.85 | -3.25 | 4.28 | -6.18 | 40.5053959 | -104.5856031 | 2.03 | |
| 729.00† | 4.763 | 306.296 | 728.75 | -4.46 | 5.83 | -8.20 | 40.5054002 | -104.5856103 | 2.76 | |
| 790.00 | 6.420 | 303.210 | 789.46 | -7.01 | 9.20 | -13.10 | 40.5054096 | -104.5856278 | 2.76 | |
| 829.00† | 7.103 | 306.678 | 828.19 | -9.02 | 11.84 | -16.86 | 40.5054170 | -104.5856412 | 2.04 | |
| 884.00 | 8.100 | 310.560 | 882.71 | -12.62 | 16.39 | -22.53 | 40.5054296 | -104.5856614 | 2.04 | |
| 929.00† | 9.549 | 309.742 | 927.17 | -16.17 | 20.83 | -27.81 | 40.5054420 | -104.5856802 | 3.23 | |
| 979.00 | 11.160 | 309.080 | 976.36 | -20.70 | 26.54 | -34.75 | 40.5054578 | -104.5857050 | 3.23 | |
| 1029.00† | 12.207 | 309.040 | 1025.32 | -25.76 | 32.92 | -42.61 | 40.5054756 | -104.5857330 | 2.09 | |
| 1074.00 | 13.150 | 309.010 | 1069.22 | -30.68 | 39.14 | -50.29 | 40.5054928 | -104.5857604 | 2.09 | |
| 1129.00† | 14.282 | 310.386 | 1122.65 | -37.33 | 47.47 | -60.32 | 40.5055160 | -104.5857961 | 2.14 | |
| 1169.00 | 15.110 | 311.260 | 1161.35 | -42.66 | 54.11 | -67.99 | 40.5055344 | -104.5858235 | 2.14 | |
| 1229.00† | 16.482 | 311.340 | 1219.08 | -51.37 | 64.89 | -80.26 | 40.5055644 | -104.5858672 | 2.29 | |
| 1263.00 | 17.260 | 311.380 | 1251.61 | -56.63 | 71.41 | -87.67 | 40.5055825 | -104.5858936 | 2.29 | |
| 1329.00† | 17.705 | 311.247 | 1314.57 | -67.20 | 84.49 | -102.56 | 40.5056188 | -104.5859467 | 0.68 | |
| 1358.00 | 17.900 | 311.190 | 1342.18 | -71.91 | 90.34 | -109.23 | 40.5056350 | -104.5859704 | 0.68 | |
| 1429.00† | 18.431 | 311.379 | 1409.64 | -83.70 | 104.94 | -125.86 | 40.5056756 | -104.5860297 | 0.75 | |
| 1453.00 | 18.610 | 311.440 | 1432.40 | -87.77 | 109.98 | -131.58 | 40.5056896 | -104.5860501 | 0.75 | |
| 1529.00† | 18.985 | 310.500 | 1504.34 | -100.70 | 126.04 | -150.07 | 40.5057342 | -104.5861160 | 0.63 | |
| 1548.00 | 19.080 | 310.270 | 1522.30 | -103.92 | 130.05 | -154.79 | 40.5057453 | -104.5861328 | 0.63 | |
| 1629.00† | 18.907 | 308.928 | 1598.89 | -117.29 | 146.86 | -175.10 | 40.5057920 | -104.5862052 | 0.58 | |
| 1642.00 | 18.880 | 308.710 | 1611.19 | -119.38 | 149.50 | -178.38 | 40.5057994 | -104.5862169 | 0.58 | |
| 1729.00† | 18.962 | 310.240 | 1693.49 | -133.64 | 167.43 | -200.16 | 40.5058492 | -104.5862945 | 0.58 | |
| 1737.00 | 18.970 | 310.380 | 1701.06 | -134.99 | 169.11 | -202.14 | 40.5058539 | -104.5863016 | 0.58 | |
| 1829.00† | 18.147 | 308.978 | 1788.27 | -149.89 | 187.81 | -224.67 | 40.5059058 | -104.5863819 | 1.02 | |
| 1832.00 | 18.120 | 308.930 | 1791.12 | -150.35 | 188.40 | -225.39 | 40.5059075 | -104.5863845 | 1.02 | |
| 1927.00 | 19.050 | 313.680 | 1881.18 | -166.50 | 208.39 | -248.10 | 40.5059630 | -104.5864654 | 1.87 | |
| 1929.00† | 19.034 | 313.664 | 1883.07 | -166.87 | 208.84 | -248.57 | 40.5059642 | -104.5864671 | 0.84 | |
| 2022.00 | 18.290 | 312.880 | 1971.18 | -183.58 | 229.24 | -270.24 | 40.5060208 | -104.5865442 | 0.84 | |
| 2029.00† | 18.357 | 312.761 | 1977.82 | -184.81 | 230.74 | -271.85 | 40.5060250 | -104.5865500 | 1.10 | |
| 2129.00† | 19.321 | 311.151 | 2072.46 | -202.31 | 252.31 | -295.87 | 40.5060849 | -104.5866355 | 1.10 | |
| 2169.00 | 19.710 | 310.550 | 2110.17 | -209.34 | 261.05 | -305.98 | 40.5061092 | -104.5866716 | 1.10 | |



Planned Wellpath Report
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|--------------------|----------------|-------------|-------------------|---------------|--------------|------------|--------------|------------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 2229.00† | 19.741 | 310.183 | 2166.64 | -219.85 | 274.17 | -321.41 | 40.5061456 | -104.5867266 | 0.21 | |
| 2264.00 | 19.760 | 309.970 | 2199.59 | -225.94 | 281.79 | -330.46 | 40.5061668 | -104.5867588 | 0.21 | |
| 2329.00† | 19.794 | 310.312 | 2260.75 | -237.28 | 295.96 | -347.27 | 40.5062062 | -104.5868188 | 0.19 | |
| 2359.00 | 19.810 | 310.470 | 2288.98 | -242.55 | 302.55 | -355.01 | 40.5062245 | -104.5868463 | 0.19 | |
| 2429.00† | 19.729 | 310.235 | 2354.85 | -254.83 | 317.88 | -373.05 | 40.5062670 | -104.5869107 | 0.16 | |
| 2454.00 | 19.700 | 310.150 | 2378.39 | -259.19 | 323.32 | -379.50 | 40.5062822 | -104.5869336 | 0.16 | |
| 2529.00† | 19.588 | 310.477 | 2449.02 | -272.25 | 339.63 | -398.72 | 40.5063275 | -104.5870021 | 0.21 | |
| 2548.00 | 19.560 | 310.560 | 2466.92 | -275.57 | 343.77 | -403.56 | 40.5063390 | -104.5870194 | 0.21 | |
| 2629.00† | 19.858 | 310.389 | 2543.18 | -289.79 | 361.50 | -424.34 | 40.5063882 | -104.5870935 | 0.38 | |
| 2643.00 | 19.910 | 310.360 | 2556.34 | -292.26 | 364.59 | -427.97 | 40.5063968 | -104.5871064 | 0.38 | |
| 2729.00† | 19.657 | 310.306 | 2637.27 | -307.35 | 383.43 | -450.16 | 40.5064491 | -104.5871855 | 0.30 | |
| 2738.00 | 19.630 | 310.300 | 2645.74 | -308.92 | 385.38 | -452.46 | 40.5064546 | -104.5871937 | 0.30 | |
| 2829.00† | 19.668 | 310.213 | 2731.44 | -324.75 | 405.16 | -475.82 | 40.5065095 | -104.5872769 | 0.05 | |
| 2927.00 | 19.710 | 310.120 | 2823.72 | -341.78 | 426.45 | -501.05 | 40.5065687 | -104.5873669 | 0.05 | |
| 2929.00† | 19.712 | 310.186 | 2825.60 | -342.13 | 426.89 | -501.56 | 40.5065699 | -104.5873687 | 1.11 | |
| 3022.00 | 19.810 | 313.230 | 2913.12 | -359.07 | 447.80 | -525.03 | 40.5066279 | -104.5874523 | 1.11 | |
| 3029.00† | 19.760 | 313.331 | 2919.71 | -360.40 | 449.43 | -526.75 | 40.5066324 | -104.5874585 | 0.86 | |
| 3117.00 | 19.140 | 314.650 | 3002.69 | -377.15 | 469.77 | -547.84 | 40.5066889 | -104.5875335 | 0.86 | |
| 3129.00† | 19.208 | 314.740 | 3014.02 | -379.45 | 472.55 | -550.64 | 40.5066966 | -104.5875435 | 0.61 | |
| 3211.00 | 19.670 | 315.340 | 3091.35 | -395.46 | 491.86 | -569.92 | 40.5067501 | -104.5876121 | 0.61 | |
| 3229.00† | 19.672 | 315.251 | 3108.30 | -399.04 | 496.16 | -574.18 | 40.5067621 | -104.5876273 | 0.17 | |
| 3306.00 | 19.680 | 314.870 | 3180.80 | -414.26 | 514.51 | -592.50 | 40.5068129 | -104.5876925 | 0.17 | |
| 3329.00† | 19.164 | 314.881 | 3202.49 | -418.73 | 519.91 | -597.92 | 40.5068279 | -104.5877118 | 2.24 | |
| 3401.00 | 17.550 | 314.920 | 3270.83 | -431.99 | 535.92 | -613.98 | 40.5068723 | -104.5877689 | 2.24 | |
| 3429.00† | 17.425 | 314.941 | 3297.53 | -436.92 | 541.86 | -619.93 | 40.5068888 | -104.5877901 | 0.45 | |
| 3495.00 | 17.130 | 314.990 | 3360.55 | -448.40 | 555.71 | -633.80 | 40.5069272 | -104.5878395 | 0.45 | |
| 3529.00† | 17.645 | 314.802 | 3393.00 | -454.34 | 562.88 | -641.00 | 40.5069471 | -104.5878651 | 1.52 | |
| 3590.00 | 18.570 | 314.490 | 3450.98 | -465.36 | 576.20 | -654.49 | 40.5069840 | -104.5879131 | 1.52 | |
| 3629.00† | 18.878 | 314.486 | 3487.92 | -472.61 | 584.98 | -663.42 | 40.5070083 | -104.5879449 | 0.79 | |
| 3685.00 | 19.320 | 314.480 | 3540.83 | -483.22 | 597.82 | -676.49 | 40.5070440 | -104.5879914 | 0.79 | |
| 3729.00† | 19.172 | 314.439 | 3582.37 | -491.61 | 607.97 | -686.85 | 40.5070721 | -104.5880283 | 0.34 | |
| 3780.00 | 19.000 | 314.390 | 3630.57 | -501.25 | 619.65 | -698.76 | 40.5071045 | -104.5880707 | 0.34 | |
| 3829.00† | 19.464 | 314.289 | 3676.84 | -510.56 | 630.93 | -710.30 | 40.5071358 | -104.5881118 | 0.95 | |
| 3874.00 | 19.890 | 314.200 | 3719.21 | -519.28 | 641.50 | -721.16 | 40.5071651 | -104.5881504 | 0.95 | |
| 3929.00† | 19.902 | 314.223 | 3770.92 | -530.05 | 654.55 | -734.57 | 40.5072013 | -104.5881982 | 0.03 | |
| 3969.00 | 19.910 | 314.240 | 3808.54 | -537.88 | 664.05 | -744.33 | 40.5072277 | -104.5882329 | 0.03 | |
| 4029.00† | 20.137 | 314.215 | 3864.91 | -549.70 | 678.38 | -759.05 | 40.5072674 | -104.5882853 | 0.38 | |
| 4064.00 | 20.270 | 314.200 | 3897.75 | -556.65 | 686.81 | -767.72 | 40.5072908 | -104.5883162 | 0.38 | |
| 4129.00† | 20.422 | 314.075 | 3958.70 | -569.63 | 702.55 | -783.94 | 40.5073344 | -104.5883739 | 0.24 | |
| 4158.00 | 20.490 | 314.020 | 3985.87 | -575.43 | 709.59 | -791.22 | 40.5073540 | -104.5883998 | 0.24 | |
| 4229.00† | 20.505 | 314.192 | 4052.38 | -589.69 | 726.90 | -809.07 | 40.5074020 | -104.5884634 | 0.09 | |
| 4253.00 | 20.510 | 314.250 | 4074.85 | -594.53 | 732.76 | -815.10 | 40.5074182 | -104.5884848 | 0.09 | |
| 4329.00† | 20.214 | 314.266 | 4146.11 | -609.75 | 751.21 | -834.04 | 40.5074694 | -104.5885523 | 0.39 | |
| 4348.00 | 20.140 | 314.270 | 4163.94 | -613.53 | 755.79 | -838.73 | 40.5074821 | -104.5885690 | 0.39 | |
| 4429.00† | 20.140 | 314.389 | 4239.99 | -629.61 | 775.28 | -858.68 | 40.5075362 | -104.5886400 | 0.05 | |



Planned Wellpath Report
BISHOP A18-742 ST01 (Rev-A.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|--------------------|----------------|----------------------|-------------------|---------------|--------------|------------|--------------|------------------|--------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 4443.00 | 20.140 | 314.410 | 4253.13 | -632.40 | 778.65 | -862.12 | 40.5075455 | -104.5886523 | 0.05 | |
| 4529.00† | 19.966 | 314.291 | 4333.92 | -649.41 | 799.26 | -883.21 | 40.5076027 | -104.5887273 | 0.21 | |
| 4537.00 | 19.950 | 314.280 | 4341.44 | -650.99 | 801.17 | -885.17 | 40.5076080 | -104.5887343 | 0.21 | |
| 4629.00† | 20.066 | 314.338 | 4427.88 | -669.13 | 823.16 | -907.69 | 40.5076690 | -104.5888145 | 0.13 | |
| 4632.00 | 20.070 | 314.340 | 4430.70 | -669.73 | 823.88 | -908.43 | 40.5076710 | -104.5888171 | 0.13 | |
| 4727.00 | 20.110 | 314.310 | 4519.92 | -688.55 | 846.68 | -931.77 | 40.5077342 | -104.5889002 | 0.04 | |
| 4729.00† | 20.096 | 314.311 | 4521.80 | -688.94 | 847.16 | -932.26 | 40.5077355 | -104.5889019 | 0.68 | |
| 4822.00 | 19.460 | 314.350 | 4609.31 | -707.09 | 869.15 | -954.77 | 40.5077965 | -104.5889821 | 0.68 | Tie On |
| 4829.00† | 19.309 | 313.925 | 4615.92 | -708.43 | 870.77 | -956.44 | 40.5078010 | -104.5889880 | 2.95 | |
| 4917.00 | 17.500 | 308.000 | 4699.42 | -723.13 | 889.01 | -977.35 | 40.5078517 | -104.5890625 | 2.95 | End of 3D Arc |
| 4929.00† | 17.498 | 308.310 | 4710.86 | -724.88 | 891.24 | -980.19 | 40.5078579 | -104.5890726 | 0.78 | |
| 5012.00 | 17.500 | 310.452 | 4790.02 | -737.46 | 907.07 | -999.48 | 40.5079019 | -104.5891414 | 0.78 | End of 3D Arc |
| 5029.00† | 17.500 | 310.452 | 4806.24 | -740.12 | 910.39 | -1003.37 | 40.5079111 | -104.5891553 | 0.00 | |
| 5129.00† | 17.500 | 310.452 | 4901.61 | -755.77 | 929.90 | -1026.25 | 40.5079653 | -104.5892368 | 0.00 | |
| 5229.00† | 17.500 | 310.452 | 4996.98 | -771.41 | 949.41 | -1049.13 | 40.5080195 | -104.5893184 | 0.00 | |
| 5329.00† | 17.500 | 310.452 | 5092.35 | -787.05 | 968.92 | -1072.01 | 40.5080737 | -104.5894000 | 0.00 | |
| 5429.00† | 17.500 | 310.452 | 5187.72 | -802.69 | 988.43 | -1094.89 | 40.5081279 | -104.5894815 | 0.00 | |
| 5529.00† | 17.500 | 310.452 | 5283.09 | -818.34 | 1007.94 | -1117.78 | 40.5081821 | -104.5895631 | 0.00 | |
| 5612.00 | 17.500 | 310.452 | 5362.25 | -831.32 | 1024.13 | -1136.77 | 40.5082270 | -104.5896308 | 0.00 | End of Tangent |
| 5629.00† | 17.949 | 310.452 | 5378.45 | -834.01 | 1027.49 | -1140.71 | 40.5082364 | -104.5896448 | 2.64 | |
| 5645.10 | 18.374 | 310.452 | 5393.74 | -836.62 | 1030.75 | -1144.52 | 40.5082454 | -104.5896584 | 2.64 | End of 3D Arc (J) |
| 5729.00† | 18.374 | 310.452 | 5473.37 | -850.38 | 1047.90 | -1164.65 | 40.5082931 | -104.5897302 | 0.00 | |
| 5829.00† | 18.374 | 310.452 | 5568.27 | -866.78 | 1068.36 | -1188.64 | 40.5083499 | -104.5898157 | 0.00 | |
| 5929.00† | 18.374 | 310.452 | 5663.17 | -883.18 | 1088.81 | -1212.62 | 40.5084067 | -104.5899012 | 0.00 | |
| 6029.00† | 18.374 | 310.452 | 5758.07 | -899.57 | 1109.26 | -1236.61 | 40.5084635 | -104.5899867 | 0.00 | |
| 6129.00† | 18.374 | 310.452 | 5852.98 | -915.97 | 1129.71 | -1260.59 | 40.5085203 | -104.5900722 | 0.00 | |
| 6229.00† | 18.374 | 310.452 | 5947.88 | -932.37 | 1150.16 | -1284.58 | 40.5085771 | -104.5901577 | 0.00 | |
| 6329.00† | 18.374 | 310.452 | 6042.78 | -948.77 | 1170.61 | -1308.57 | 40.5086339 | -104.5902432 | 0.00 | |
| 6429.00† | 18.374 | 310.452 | 6137.68 | -965.17 | 1191.07 | -1332.55 | 40.5086907 | -104.5903287 | 0.00 | |
| 6528.02 | 18.374 | 310.452 | 6231.65 | -981.40 | 1211.32 | -1356.30 | 40.5087470 | -104.5904133 | 0.00 | End of Tangent (J) |
| 6529.00† | 18.317 | 310.217 | 6232.58 | -981.56 | 1211.52 | -1356.54 | 40.5087475 | -104.5904142 | 9.50 | |
| 6629.00† | 14.561 | 278.823 | 6328.66 | -989.64 | 1223.62 | -1381.02 | 40.5087814 | -104.5905017 | 9.50 | |
| 6729.00† | 16.284 | 243.102 | 6425.27 | -981.31 | 1219.19 | -1406.00 | 40.5087700 | -104.5905917 | 9.50 | |
| 6829.00† | 22.248 | 220.292 | 6519.76 | -956.82 | 1198.36 | -1430.80 | 40.5087135 | -104.5906817 | 9.50 | |
| 6929.00† | 30.021 | 207.743 | 6609.54 | -916.83 | 1161.70 | -1454.74 | 40.5086136 | -104.5907691 | 9.50 | |
| 7029.00† | 38.521 | 200.153 | 6692.14 | -862.44 | 1110.21 | -1477.17 | 40.5084729 | -104.5908517 | 9.50 | |
| 7129.00† | 47.355 | 194.999 | 6765.30 | -795.14 | 1045.30 | -1497.46 | 40.5082953 | -104.5909270 | 9.50 | |
| 7229.00† | 56.362 | 191.145 | 6827.01 | -716.77 | 968.76 | -1515.07 | 40.5080857 | -104.5909932 | 9.50 | |
| 7329.00† | 65.465 | 188.030 | 6875.58 | -629.49 | 882.68 | -1529.50 | 40.5078498 | -104.5910482 | 9.50 | |
| 7429.00† | 74.623 | 185.341 | 6909.68 | -535.70 | 789.42 | -1540.37 | 40.5075942 | -104.5910908 | 9.50 | |
| 7529.00† | 83.812 | 182.880 | 6928.37 | -437.95 | 691.55 | -1547.37 | 40.5073258 | -104.5911195 | 9.50 | |
| 7596.28 | 90.000 | 181.280 | 6932.00 ¹ | -371.31 | 624.45 | -1549.80 | 40.5071417 | -104.5911308 | 9.50 | LP |
| 7629.00† | 90.000 | 180.626 | 6932.00 | -338.92 | 591.73 | -1550.34 | 40.5070519 | -104.5911339 | 2.00 | |
| 7666.02 | 90.000 | 179.885 | 6932.00 | -302.34 | 554.71 | -1550.51 | 40.5069503 | -104.5911359 | 2.00 | End of 3D Arc (J) |
| 7729.00† | 90.000 | 179.885 | 6932.00 | -240.17 | 491.73 | -1550.38 | 40.5067774 | -104.5911378 | 0.00 | |



Planned Wellpath Report
BISHOP A18-742 ST01 (Rev-A.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|--------------------|----------------|-------------|-------------------|---------------|--------------|------------|--------------|------------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 7829.00† | 90.000 | 179.885 | 6932.00 | -141.47 | 391.73 | -1550.18 | 40.5065029 | -104.5911407 | 0.00 | |
| 7929.00† | 90.000 | 179.885 | 6932.00 | -42.76 | 291.73 | -1549.98 | 40.5062285 | -104.5911437 | 0.00 | |
| 8029.00† | 90.000 | 179.885 | 6932.00 | 55.95 | 191.73 | -1549.78 | 40.5059540 | -104.5911466 | 0.00 | |
| 8129.00† | 90.000 | 179.885 | 6932.00 | 154.66 | 91.73 | -1549.58 | 40.5056795 | -104.5911496 | 0.00 | |
| 8229.00† | 90.000 | 179.885 | 6932.00 | 253.37 | -8.26 | -1549.38 | 40.5054050 | -104.5911526 | 0.00 | |
| 8329.00† | 90.000 | 179.885 | 6932.00 | 352.07 | -108.26 | -1549.18 | 40.5051306 | -104.5911555 | 0.00 | |
| 8429.00† | 90.000 | 179.885 | 6932.00 | 450.78 | -208.26 | -1548.98 | 40.5048561 | -104.5911585 | 0.00 | |
| 8529.00† | 90.000 | 179.885 | 6932.00 | 549.49 | -308.26 | -1548.78 | 40.5045816 | -104.5911615 | 0.00 | |
| 8629.00† | 90.000 | 179.885 | 6932.00 | 648.20 | -408.26 | -1548.58 | 40.5043071 | -104.5911644 | 0.00 | |
| 8729.00† | 90.000 | 179.885 | 6932.00 | 746.90 | -508.26 | -1548.38 | 40.5040327 | -104.5911674 | 0.00 | |
| 8829.00† | 90.000 | 179.885 | 6932.00 | 845.61 | -608.26 | -1548.18 | 40.5037582 | -104.5911704 | 0.00 | |
| 8929.00† | 90.000 | 179.885 | 6932.00 | 944.32 | -708.26 | -1547.98 | 40.5034837 | -104.5911733 | 0.00 | |
| 9029.00† | 90.000 | 179.885 | 6932.00 | 1043.03 | -808.26 | -1547.78 | 40.5032092 | -104.5911763 | 0.00 | |
| 9129.00† | 90.000 | 179.885 | 6932.00 | 1141.74 | -908.26 | -1547.58 | 40.5029348 | -104.5911793 | 0.00 | |
| 9229.00† | 90.000 | 179.885 | 6932.00 | 1240.44 | -1008.26 | -1547.38 | 40.5026603 | -104.5911822 | 0.00 | |
| 9329.00† | 90.000 | 179.885 | 6932.00 | 1339.15 | -1108.26 | -1547.17 | 40.5023858 | -104.5911852 | 0.00 | |
| 9429.00† | 90.000 | 179.885 | 6932.00 | 1437.86 | -1208.26 | -1546.97 | 40.5021113 | -104.5911881 | 0.00 | |
| 9529.00† | 90.000 | 179.885 | 6932.00 | 1536.57 | -1308.26 | -1546.77 | 40.5018369 | -104.5911911 | 0.00 | |
| 9629.00† | 90.000 | 179.885 | 6932.00 | 1635.27 | -1408.26 | -1546.57 | 40.5015624 | -104.5911941 | 0.00 | |
| 9729.00† | 90.000 | 179.885 | 6932.00 | 1733.98 | -1508.26 | -1546.37 | 40.5012879 | -104.5911970 | 0.00 | |
| 9829.00† | 90.000 | 179.885 | 6932.00 | 1832.69 | -1608.26 | -1546.17 | 40.5010134 | -104.5912000 | 0.00 | |
| 9929.00† | 90.000 | 179.885 | 6932.00 | 1931.40 | -1708.26 | -1545.97 | 40.5007389 | -104.5912030 | 0.00 | |
| 10029.00† | 90.000 | 179.885 | 6932.00 | 2030.11 | -1808.26 | -1545.77 | 40.5004645 | -104.5912059 | 0.00 | |
| 10129.00† | 90.000 | 179.885 | 6932.00 | 2128.81 | -1908.26 | -1545.57 | 40.5001900 | -104.5912089 | 0.00 | |
| 10229.00† | 90.000 | 179.885 | 6932.00 | 2227.52 | -2008.26 | -1545.37 | 40.4999155 | -104.5912119 | 0.00 | |
| 10329.00† | 90.000 | 179.885 | 6932.00 | 2326.23 | -2108.26 | -1545.17 | 40.4996410 | -104.5912148 | 0.00 | |
| 10429.00† | 90.000 | 179.885 | 6932.00 | 2424.94 | -2208.26 | -1544.97 | 40.4993666 | -104.5912178 | 0.00 | |
| 10529.00† | 90.000 | 179.885 | 6932.00 | 2523.65 | -2308.26 | -1544.77 | 40.4990921 | -104.5912208 | 0.00 | |
| 10629.00† | 90.000 | 179.885 | 6932.00 | 2622.35 | -2408.26 | -1544.57 | 40.4988176 | -104.5912237 | 0.00 | |
| 10729.00† | 90.000 | 179.885 | 6932.00 | 2721.06 | -2508.26 | -1544.37 | 40.4985431 | -104.5912267 | 0.00 | |
| 10829.00† | 90.000 | 179.885 | 6932.00 | 2819.77 | -2608.26 | -1544.17 | 40.4982687 | -104.5912296 | 0.00 | |
| 10929.00† | 90.000 | 179.885 | 6932.00 | 2918.48 | -2708.26 | -1543.97 | 40.4979942 | -104.5912326 | 0.00 | |
| 11029.00† | 90.000 | 179.885 | 6932.00 | 3017.18 | -2808.26 | -1543.77 | 40.4977197 | -104.5912356 | 0.00 | |
| 11129.00† | 90.000 | 179.885 | 6932.00 | 3115.89 | -2908.26 | -1543.57 | 40.4974452 | -104.5912385 | 0.00 | |
| 11229.00† | 90.000 | 179.885 | 6932.00 | 3214.60 | -3008.26 | -1543.37 | 40.4971708 | -104.5912415 | 0.00 | |
| 11329.00† | 90.000 | 179.885 | 6932.00 | 3313.31 | -3108.26 | -1543.16 | 40.4968963 | -104.5912445 | 0.00 | |
| 11429.00† | 90.000 | 179.885 | 6932.00 | 3412.02 | -3208.26 | -1542.96 | 40.4966218 | -104.5912474 | 0.00 | |
| 11529.00† | 90.000 | 179.885 | 6932.00 | 3510.72 | -3308.26 | -1542.76 | 40.4963473 | -104.5912504 | 0.00 | |
| 11629.00† | 90.000 | 179.885 | 6932.00 | 3609.43 | -3408.26 | -1542.56 | 40.4960729 | -104.5912534 | 0.00 | |
| 11729.00† | 90.000 | 179.885 | 6932.00 | 3708.14 | -3508.26 | -1542.36 | 40.4957984 | -104.5912563 | 0.00 | |
| 11829.00† | 90.000 | 179.885 | 6932.00 | 3806.85 | -3608.26 | -1542.16 | 40.4955239 | -104.5912593 | 0.00 | |
| 11929.00† | 90.000 | 179.885 | 6932.00 | 3905.55 | -3708.26 | -1541.96 | 40.4952494 | -104.5912622 | 0.00 | |
| 12029.00† | 90.000 | 179.885 | 6932.00 | 4004.26 | -3808.26 | -1541.76 | 40.4949750 | -104.5912652 | 0.00 | |
| 12129.00† | 90.000 | 179.885 | 6932.00 | 4102.97 | -3908.26 | -1541.56 | 40.4947005 | -104.5912682 | 0.00 | |
| 12229.00† | 90.000 | 179.885 | 6932.00 | 4201.68 | -4008.26 | -1541.36 | 40.4944260 | -104.5912711 | 0.00 | |



Planned Wellpath Report
BISHOP A18-742 ST01 (Rev-A.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|--------------------|----------------|-------------|-------------------|---------------|--------------|------------|--------------|------------------|----------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 12329.00† | 90.000 | 179.885 | 6932.00 | 4300.39 | -4108.26 | -1541.16 | 40.4941515 | -104.5912741 | 0.00 | |
| 12429.00† | 90.000 | 179.885 | 6932.00 | 4399.09 | -4208.26 | -1540.96 | 40.4938770 | -104.5912771 | 0.00 | |
| 12529.00† | 90.000 | 179.885 | 6932.00 | 4497.80 | -4308.26 | -1540.76 | 40.4936026 | -104.5912800 | 0.00 | |
| 12629.00† | 90.000 | 179.885 | 6932.00 | 4596.51 | -4408.26 | -1540.56 | 40.4933281 | -104.5912830 | 0.00 | |
| 12729.00† | 90.000 | 179.885 | 6932.00 | 4695.22 | -4508.26 | -1540.36 | 40.4930536 | -104.5912860 | 0.00 | |
| 12829.00† | 90.000 | 179.885 | 6932.00 | 4793.93 | -4608.26 | -1540.16 | 40.4927791 | -104.5912889 | 0.00 | |
| 12929.00† | 90.000 | 179.885 | 6932.00 | 4892.63 | -4708.26 | -1539.96 | 40.4925047 | -104.5912919 | 0.00 | |
| 13029.00† | 90.000 | 179.885 | 6932.00 | 4991.34 | -4808.26 | -1539.76 | 40.4922302 | -104.5912948 | 0.00 | |
| 13129.00† | 90.000 | 179.885 | 6932.00 | 5090.05 | -4908.26 | -1539.56 | 40.4919557 | -104.5912978 | 0.00 | |
| 13229.00† | 90.000 | 179.885 | 6932.00 | 5188.76 | -5008.25 | -1539.36 | 40.4916812 | -104.5913008 | 0.00 | |
| 13329.00† | 90.000 | 179.885 | 6932.00 | 5287.46 | -5108.25 | -1539.15 | 40.4914068 | -104.5913037 | 0.00 | |
| 13429.00† | 90.000 | 179.885 | 6932.00 | 5386.17 | -5208.25 | -1538.95 | 40.4911323 | -104.5913067 | 0.00 | |
| 13529.00† | 90.000 | 179.885 | 6932.00 | 5484.88 | -5308.25 | -1538.75 | 40.4908578 | -104.5913097 | 0.00 | |
| 13629.00† | 90.000 | 179.885 | 6932.00 | 5583.59 | -5408.25 | -1538.55 | 40.4905833 | -104.5913126 | 0.00 | |
| 13729.00† | 90.000 | 179.885 | 6932.00 | 5682.30 | -5508.25 | -1538.35 | 40.4903089 | -104.5913156 | 0.00 | |
| 13829.00† | 90.000 | 179.885 | 6932.00 | 5781.00 | -5608.25 | -1538.15 | 40.4900344 | -104.5913186 | 0.00 | |
| 13929.00† | 90.000 | 179.885 | 6932.00 | 5879.71 | -5708.25 | -1537.95 | 40.4897599 | -104.5913215 | 0.00 | |
| 14029.00† | 90.000 | 179.885 | 6932.00 | 5978.42 | -5808.25 | -1537.75 | 40.4894854 | -104.5913245 | 0.00 | |
| 14129.00† | 90.000 | 179.885 | 6932.00 | 6077.13 | -5908.25 | -1537.55 | 40.4892109 | -104.5913274 | 0.00 | |
| 14229.00† | 90.000 | 179.885 | 6932.00 | 6175.83 | -6008.25 | -1537.35 | 40.4889365 | -104.5913304 | 0.00 | |
| 14329.00† | 90.000 | 179.885 | 6932.00 | 6274.54 | -6108.25 | -1537.15 | 40.4886620 | -104.5913334 | 0.00 | |
| 14429.00† | 90.000 | 179.885 | 6932.00 | 6373.25 | -6208.25 | -1536.95 | 40.4883875 | -104.5913363 | 0.00 | |
| 14529.00† | 90.000 | 179.885 | 6932.00 | 6471.96 | -6308.25 | -1536.75 | 40.4881130 | -104.5913393 | 0.00 | |
| 14629.00† | 90.000 | 179.885 | 6932.00 | 6570.67 | -6408.25 | -1536.55 | 40.4878386 | -104.5913423 | 0.00 | |
| 14729.00† | 90.000 | 179.885 | 6932.00 | 6669.37 | -6508.25 | -1536.35 | 40.4875641 | -104.5913452 | 0.00 | |
| 14829.00† | 90.000 | 179.885 | 6932.00 | 6768.08 | -6608.25 | -1536.15 | 40.4872896 | -104.5913482 | 0.00 | |
| 14929.00† | 90.000 | 179.885 | 6932.00 | 6866.79 | -6708.25 | -1535.95 | 40.4870151 | -104.5913511 | 0.00 | |
| 15029.00† | 90.000 | 179.885 | 6932.00 | 6965.50 | -6808.25 | -1535.75 | 40.4867407 | -104.5913541 | 0.00 | |
| 15129.00† | 90.000 | 179.885 | 6932.00 | 7064.21 | -6908.25 | -1535.55 | 40.4864662 | -104.5913571 | 0.00 | |
| 15229.00† | 90.000 | 179.885 | 6932.00 | 7162.91 | -7008.25 | -1535.35 | 40.4861917 | -104.5913600 | 0.00 | |
| 15329.00† | 90.000 | 179.885 | 6932.00 | 7261.62 | -7108.25 | -1535.14 | 40.4859172 | -104.5913630 | 0.00 | |
| 15429.00† | 90.000 | 179.885 | 6932.00 | 7360.33 | -7208.25 | -1534.94 | 40.4856427 | -104.5913660 | 0.00 | |
| 15529.00† | 90.000 | 179.885 | 6932.00 | 7459.04 | -7308.25 | -1534.74 | 40.4853683 | -104.5913689 | 0.00 | |
| 15629.00† | 90.000 | 179.885 | 6932.00 | 7557.74 | -7408.25 | -1534.54 | 40.4850938 | -104.5913719 | 0.00 | |
| 15729.00† | 90.000 | 179.885 | 6932.00 | 7656.45 | -7508.25 | -1534.34 | 40.4848193 | -104.5913749 | 0.00 | |
| 15829.00† | 90.000 | 179.885 | 6932.00 | 7755.16 | -7608.25 | -1534.14 | 40.4845448 | -104.5913778 | 0.00 | |
| 15929.00† | 90.000 | 179.885 | 6932.00 | 7853.87 | -7708.25 | -1533.94 | 40.4842704 | -104.5913808 | 0.00 | |
| 16029.00† | 90.000 | 179.885 | 6932.00 | 7952.58 | -7808.25 | -1533.74 | 40.4839959 | -104.5913837 | 0.00 | |
| 16129.00† | 90.000 | 179.885 | 6932.00 | 8051.28 | -7908.25 | -1533.54 | 40.4837214 | -104.5913867 | 0.00 | |
| 16229.00† | 90.000 | 179.885 | 6932.00 | 8149.99 | -8008.25 | -1533.34 | 40.4834469 | -104.5913897 | 0.00 | |
| 16329.00† | 90.000 | 179.885 | 6932.00 | 8248.70 | -8108.25 | -1533.14 | 40.4831725 | -104.5913926 | 0.00 | |
| 16429.00† | 90.000 | 179.885 | 6932.00 | 8347.41 | -8208.25 | -1532.94 | 40.4828980 | -104.5913956 | 0.00 | |
| 16529.00† | 90.000 | 179.885 | 6932.00 | 8446.11 | -8308.25 | -1532.74 | 40.4826235 | -104.5913986 | 0.00 | |
| 16629.00† | 90.000 | 179.885 | 6932.00 | 8544.82 | -8408.25 | -1532.54 | 40.4823490 | -104.5914015 | 0.00 | |
| 16729.00† | 90.000 | 179.885 | 6932.00 | 8643.53 | -8508.25 | -1532.34 | 40.4820745 | -104.5914045 | 0.00 | |



Planned Wellpath Report

BISHOP A18-742 ST01 (Rev-A.0) PWP

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| WELLPATH DATA (236 stations) † = interpolated, ‡ = extrapolated station | | | | | | | | | | |
|---|-----------------|-------------|----------------------|----------------|------------|-----------|------------|--------------|---------------|--------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 16829.00† | 90.000 | 179.885 | 6932.00 | 8742.24 | -8608.25 | -1532.14 | 40.4818001 | -104.5914074 | 0.00 | |
| 16929.00† | 90.000 | 179.885 | 6932.00 | 8840.95 | -8708.25 | -1531.94 | 40.4815256 | -104.5914104 | 0.00 | |
| 17029.00† | 90.000 | 179.885 | 6932.00 | 8939.65 | -8808.25 | -1531.74 | 40.4812511 | -104.5914134 | 0.00 | |
| 17129.00† | 90.000 | 179.885 | 6932.00 | 9038.36 | -8908.25 | -1531.54 | 40.4809766 | -104.5914163 | 0.00 | |
| 17229.00† | 90.000 | 179.885 | 6932.00 | 9137.07 | -9008.25 | -1531.34 | 40.4807022 | -104.5914193 | 0.00 | |
| 17329.00† | 90.000 | 179.885 | 6932.00 | 9235.78 | -9108.25 | -1531.13 | 40.4804277 | -104.5914223 | 0.00 | |
| 17429.00† | 90.000 | 179.885 | 6932.00 | 9334.48 | -9208.25 | -1530.93 | 40.4801532 | -104.5914252 | 0.00 | |
| 17529.00† | 90.000 | 179.885 | 6932.00 | 9433.19 | -9308.25 | -1530.73 | 40.4798787 | -104.5914282 | 0.00 | |
| 17629.00† | 90.000 | 179.885 | 6932.00 | 9531.90 | -9408.25 | -1530.53 | 40.4796042 | -104.5914311 | 0.00 | |
| 17729.00† | 90.000 | 179.885 | 6932.00 | 9630.61 | -9508.25 | -1530.33 | 40.4793298 | -104.5914341 | 0.00 | |
| 17768.16 | 90.000 | 179.885 | 6932.00 ² | 9669.26 | -9547.40 | -1530.25 | 40.4792223 | -104.5914353 | 0.00 | End of Tangent (J) |

| TARGETS | | | | | | | | | |
|---|---------------------------------------|----------|------------|-----------|-------------------|--------------------|------------|--------------|---------|
| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
| OGDP 1 SEC.07-T06N-R64W | N/A | -3.00 | -0.36 | 105.96 | 3254380.72 | 1428262.61 | 40.5053800 | -104.5852000 | polygon |
| | 2D Polygon: dimensions not calculated | | | | | | | | |
| OGDP 1 SEC.18-T06N-R64W | N/A | -3.00 | -0.36 | 105.96 | 3254380.72 | 1428262.61 | 40.5053800 | -104.5852000 | polygon |
| | 2D Polygon: dimensions not calculated | | | | | | | | |
| 2) BISHOP A18-742 BHL Rev-2 (200'FSL & 2142'FEL,SEC.18) | 17768.16 | 6932.00 | -9547.40 | -1530.25 | 3252744.56 | 1418715.91 | 40.4792223 | -104.5914353 | point |
| 1) BISHOP A18-742 LP Rev-2 (200'FNL & 2073'FEL,SEC.07) | 7596.28 | 6932.00 | 624.45 | -1549.80 | 3252725.01 | 1428887.41 | 40.5071417 | -104.5911308 | point |
| DP 133 Hardlines (200'FNL/FSL & 300'FEL/FWL) | N/A | 6998.00 | -0.17 | 89.83 | 3254364.58 | 1428262.81 | 40.5053810 | -104.5852580 | polygon |
| | 2D Polygon: dimensions not calculated | | | | | | | | |

| SURVEY PROGRAM - Ref Wellbore: BISHOP A18-742 ST01 PWB Ref Wellpath: BISHOP A18-742 ST01 (Rev-A.0) PWP | | | | |
|--|-------------|------------------------------|--|-------------------------|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 29.00 | 2022.00 | OWSG MWD rev2 (MS+IFR1) | 13.5" EVO Surface OWSG MWD rev2 (MS + IFR1) <132'-2022'> | BISHOP A18-742 OWB AWB |
| 2022.00 | 4822.00 | OWSG MWD rev2 (MS+IFR1) | 8.5" Lucida OWSG MWD rev2 (MS+IFR1) <2169'-5390'> | BISHOP A18-742 OWB AWB |
| 4822.00 | 17768.16 | OWSG MWD rev2 (MS+IFR1) | | BISHOP A18-742 ST01 PWB |



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BISHOP A18-742 ST01 (Rev-A.0) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---|----------------|--------------------------------------|
| Operator | NOBLE ENERGY, INC | Well | BISHOP A18-742 ST01 |
| Field | WELD COUNTY (NOBLE NAD 83 GRID) | API/Legal | |
| Facility | SEC.07-T06N-R64W | Wellbore | BISHOP A18-742 ST01 PWB |
| Slot | SLOT#13 BISHOP A18-742 (858'FNL & 529'FEL,SEC.07) | Sidetrack from | BISHOP A18-742 OWB AWP at 4822.00 MD |

| DESIGN COMMENTS | | | | |
|-----------------|--------------------|----------------|-------------|--------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
| 4822.00 | 19.460 | 314.350 | 4609.31 | Tie On |
| 4917.00 | 17.500 | 308.000 | 4699.42 | End of 3D Arc |
| 5012.00 | 17.500 | 310.452 | 4790.02 | End of 3D Arc |
| 5612.00 | 17.500 | 310.452 | 5362.25 | End of Tangent |
| 5645.10 | 18.374 | 310.452 | 5393.74 | End of 3D Arc (J) |
| 6528.02 | 18.374 | 310.452 | 6231.65 | End of Tangent (J) |
| 7596.28 | 90.000 | 181.280 | 6932.00 | LP |
| 7666.02 | 90.000 | 179.885 | 6932.00 | End of 3D Arc (J) |
| 17768.16 | 90.000 | 179.885 | 6932.00 | End of Tangent (J) |