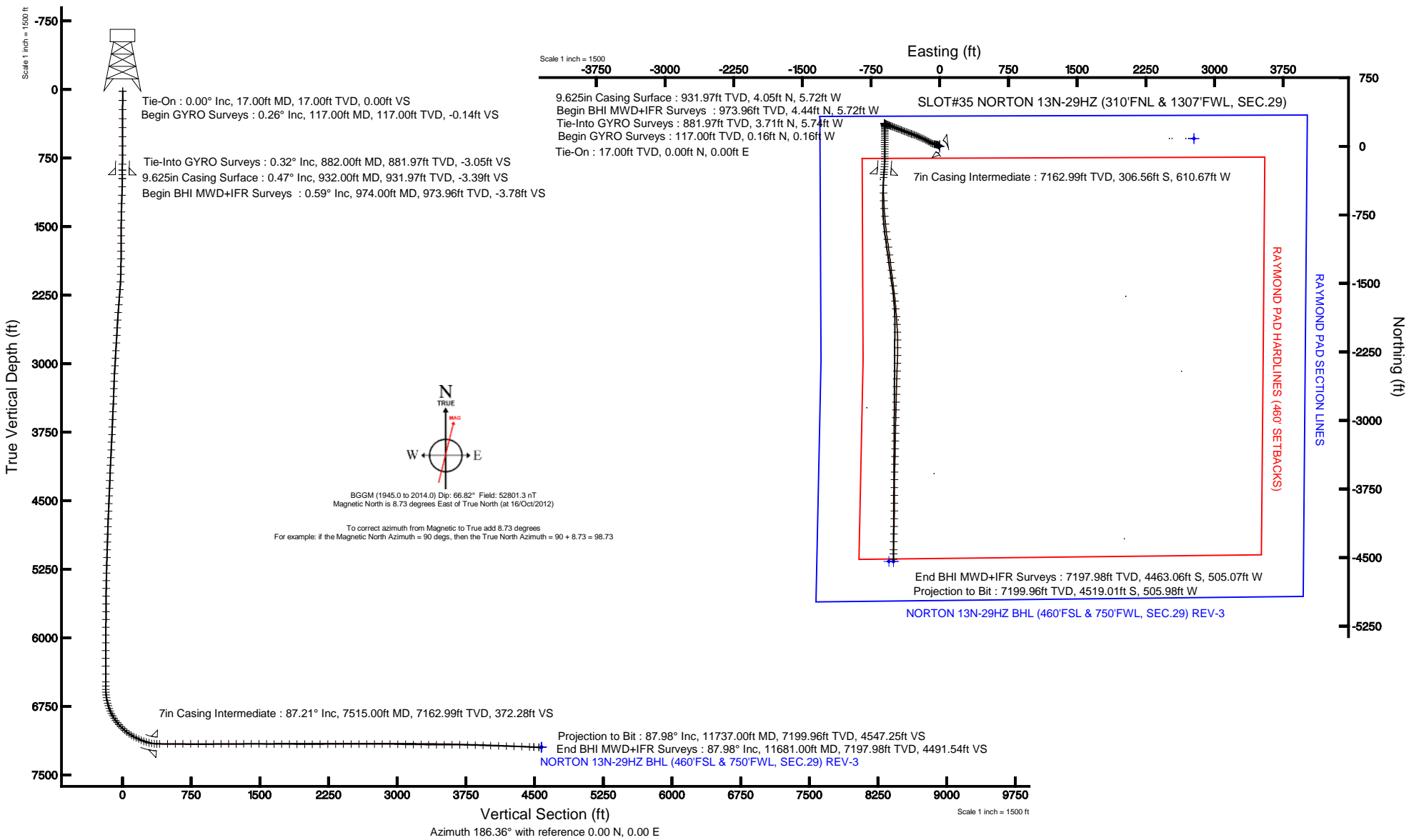


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29)
 Field: WELD COUNTY (KERR MCGEE) Well: NORTON 13N-29HZ
 Facility: SEC.29-T3N-R66W Wellbore: NORTON 13N-29HZ PWB

Plot reference wellpath is NORTON 13N-29HZ (REV-D.0) PWP

| | |
|--|--|
| True vertical depths are referenced to XTREME 6 (RKB) | Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet |
| Measured depths are referenced to XTREME 6 (RKB) | North Reference: True north |
| XTREME 6 (RKB) to Mean Sea Level: 4913 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: augnora on 07/Nov/2012 |





Actual Wellpath Report

NORTON 13N-29HZ AWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|-------------------------------------|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 3.0.0 |
| North Reference | True | User | Augunora |
| Scale | 0.999957 | Report Generated | 07/Nov/2012 at 10:29 |
| Convergence at slot | 0.45° East | Database/Source file | WA_ANADARKO/NORTON_13N-29HZ_AWB.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|-------------------|-------------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 824.03 | 265.91 | 3193859.94 | 1317252.32 | 40°12'07.819"N | 104°48'21.449"W |
| Facility Reference Pt | | | 3193600.49 | 1316426.28 | 40°11'59.676"N | 104°48'24.876"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | |
|--------------------------|-------------------|---|
| Calculation method | Minimum curvature | XTREME 6 (RKB) to Facility Vertical Datum |
| Horizontal Reference Pt | Slot | XTREME 6 (RKB) to Mean Sea Level |
| Vertical Reference Pt | XTREME 6 (RKB) | XTREME 6 (RKB) to Mud Line at Slot (SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL)) |
| MD Reference Pt | XTREME 6 (RKB) | Section Origin |
| Field Vertical Reference | Mean Sea Level | Section Azimuth |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

WELLPATH DATA (160 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 | 314.250 | 0.00 | 0.00 | 0.00 | 0.00 | 40°12'07.819"N | 104°48'21.449"W | 0.00 | |
| 17.00 | 0.000 | 314.250 | 17.00 | 0.00 | 0.00 | 0.00 | 40°12'07.819"N | 104°48'21.449"W | 0.00 | Tie-On |
| 117.00 | 0.260 | 314.250 | 117.00 | -0.14 | 0.16 | -0.16 | 40°12'07.821"N | 104°48'21.451"W | 0.26 | Begin GYRO Surveys |
| 217.00 | 0.470 | 279.270 | 217.00 | -0.30 | 0.38 | -0.73 | 40°12'07.823"N | 104°48'21.458"W | 0.30 | |
| 317.00 | 0.430 | 291.610 | 316.99 | -0.42 | 0.59 | -1.48 | 40°12'07.825"N | 104°48'21.468"W | 0.10 | |
| 417.00 | 0.570 | 286.140 | 416.99 | -0.60 | 0.86 | -2.31 | 40°12'07.828"N | 104°48'21.479"W | 0.15 | |
| 517.00 | 0.610 | 325.410 | 516.99 | -1.09 | 1.44 | -3.09 | 40°12'07.833"N | 104°48'21.489"W | 0.40 | |
| 617.00 | 0.780 | 306.830 | 616.98 | -1.83 | 2.29 | -3.94 | 40°12'07.842"N | 104°48'21.500"W | 0.28 | |
| 717.00 | 0.610 | 298.840 | 716.97 | -2.38 | 2.95 | -4.95 | 40°12'07.848"N | 104°48'21.513"W | 0.20 | |
| 817.00 | 0.330 | 312.550 | 816.97 | -2.76 | 3.40 | -5.63 | 40°12'07.853"N | 104°48'21.522"W | 0.30 | |
| 882.00 | 0.320 | 6.270 | 881.97 | -3.05 | 3.71 | -5.74 | 40°12'07.856"N | 104°48'21.523"W | 0.45 | Tie-Into GYRO Surveys |
| 974.00 | 0.590 | 359.300 | 973.96 | -3.77 | 4.44 | -5.72 | 40°12'07.863"N | 104°48'21.523"W | 0.30 | Begin BHI MWD+IFR Surveys |
| 1065.00 | 1.920 | 314.150 | 1064.94 | -5.17 | 5.97 | -6.82 | 40°12'07.878"N | 104°48'21.537"W | 1.72 | |
| 1156.00 | 3.270 | 319.680 | 1155.85 | -7.89 | 9.01 | -9.60 | 40°12'07.908"N | 104°48'21.573"W | 1.51 | |
| 1248.00 | 3.270 | 307.060 | 1247.70 | -11.02 | 12.59 | -13.39 | 40°12'07.943"N | 104°48'21.622"W | 0.78 | |
| 1339.00 | 3.510 | 293.120 | 1338.54 | -13.15 | 15.25 | -18.02 | 40°12'07.970"N | 104°48'21.681"W | 0.94 | |
| 1430.00 | 3.550 | 298.890 | 1429.37 | -15.03 | 17.70 | -23.05 | 40°12'07.994"N | 104°48'21.746"W | 0.39 | |
| 1515.00 | 3.520 | 281.250 | 1514.21 | -16.26 | 19.49 | -27.91 | 40°12'08.012"N | 104°48'21.809"W | 1.28 | |
| 1600.00 | 3.490 | 279.100 | 1599.05 | -16.60 | 20.40 | -33.03 | 40°12'08.021"N | 104°48'21.875"W | 0.16 | |
| 1684.00 | 3.620 | 283.280 | 1682.89 | -17.04 | 21.42 | -38.13 | 40°12'08.031"N | 104°48'21.940"W | 0.35 | |
| 1770.00 | 4.670 | 276.550 | 1768.66 | -17.38 | 22.44 | -44.25 | 40°12'08.041"N | 104°48'22.019"W | 1.34 | |
| 1855.00 | 6.060 | 278.480 | 1853.29 | -17.55 | 23.50 | -52.13 | 40°12'08.051"N | 104°48'22.121"W | 1.65 | |
| 1940.00 | 6.820 | 283.520 | 1937.75 | -18.34 | 25.34 | -61.47 | 40°12'08.069"N | 104°48'22.241"W | 1.11 | |
| 2025.00 | 8.530 | 285.940 | 2021.99 | -20.01 | 28.25 | -72.44 | 40°12'08.098"N | 104°48'22.383"W | 2.05 | |
| 2110.00 | 9.530 | 295.900 | 2105.94 | -23.41 | 33.05 | -84.83 | 40°12'08.146"N | 104°48'22.542"W | 2.18 | |
| 2195.00 | 11.140 | 299.690 | 2189.56 | -29.01 | 40.20 | -98.30 | 40°12'08.216"N | 104°48'22.716"W | 2.06 | |
| 2280.00 | 11.040 | 300.470 | 2272.97 | -35.58 | 48.39 | -112.45 | 40°12'08.297"N | 104°48'22.898"W | 0.21 | |
| 2365.00 | 10.580 | 299.550 | 2356.46 | -41.97 | 56.37 | -126.25 | 40°12'08.376"N | 104°48'23.076"W | 0.58 | |
| 2450.00 | 10.350 | 300.640 | 2440.05 | -48.17 | 64.11 | -139.61 | 40°12'08.452"N | 104°48'23.248"W | 0.36 | |
| 2535.00 | 10.650 | 296.910 | 2523.62 | -54.06 | 71.55 | -153.18 | 40°12'08.526"N | 104°48'23.423"W | 0.87 | |
| 2620.00 | 11.090 | 293.110 | 2607.10 | -59.17 | 78.31 | -167.70 | 40°12'08.593"N | 104°48'23.610"W | 0.99 | |
| 2705.00 | 11.310 | 293.100 | 2690.48 | -63.92 | 84.79 | -182.89 | 40°12'08.657"N | 104°48'23.806"W | 0.26 | |
| 2790.00 | 11.460 | 292.880 | 2773.81 | -68.71 | 91.35 | -198.34 | 40°12'08.722"N | 104°48'24.005"W | 0.18 | |
| 2875.00 | 10.770 | 295.520 | 2857.21 | -73.71 | 98.05 | -213.28 | 40°12'08.788"N | 104°48'24.198"W | 1.01 | |
| 2960.00 | 10.830 | 295.810 | 2940.71 | -78.97 | 104.95 | -227.64 | 40°12'08.856"N | 104°48'24.383"W | 0.10 | |
| 3045.00 | 10.380 | 294.010 | 3024.26 | -83.94 | 111.54 | -241.82 | 40°12'08.921"N | 104°48'24.566"W | 0.66 | |
| 3131.00 | 10.660 | 293.700 | 3108.81 | -88.65 | 117.89 | -256.18 | 40°12'08.984"N | 104°48'24.751"W | 0.33 | |
| 3216.00 | 10.180 | 288.600 | 3192.41 | -92.58 | 123.45 | -270.50 | 40°12'09.039"N | 104°48'24.935"W | 1.22 | |
| 3299.00 | 9.640 | 289.320 | 3274.17 | -95.69 | 128.09 | -284.01 | 40°12'09.085"N | 104°48'25.109"W | 0.67 | |
| 3384.00 | 9.190 | 288.760 | 3358.03 | -98.74 | 132.62 | -297.15 | 40°12'09.130"N | 104°48'25.279"W | 0.54 | |
| 3469.00 | 10.090 | 290.690 | 3441.83 | -102.03 | 137.44 | -310.55 | 40°12'09.177"N | 104°48'25.451"W | 1.12 | |
| 3554.00 | 9.730 | 291.050 | 3525.56 | -105.69 | 142.65 | -324.22 | 40°12'09.229"N | 104°48'25.627"W | 0.43 | |
| 3640.00 | 9.980 | 290.810 | 3610.29 | -109.38 | 147.91 | -337.97 | 40°12'09.281"N | 104°48'25.805"W | 0.29 | |
| 3724.00 | 9.920 | 289.870 | 3693.03 | -112.88 | 152.95 | -351.57 | 40°12'09.330"N | 104°48'25.980"W | 0.21 | |
| 3810.00 | 10.420 | 291.580 | 3777.67 | -116.65 | 158.33 | -365.77 | 40°12'09.384"N | 104°48'26.163"W | 0.68 | |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

WELLPATH DATA (160 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|----------|
| 3894.00 | 10.050 | 291.500 | 3860.34 | -120.55 | 163.81 | -379.66 | 40°12'09.438"N | 104°48'26.342"W | 0.44 | |
| 3980.00 | 9.960 | 290.970 | 3945.03 | -124.38 | 169.22 | -393.58 | 40°12'09.491"N | 104°48'26.521"W | 0.15 | |
| 4065.00 | 10.150 | 292.820 | 4028.72 | -128.35 | 174.76 | -407.35 | 40°12'09.546"N | 104°48'26.699"W | 0.44 | |
| 4150.00 | 9.980 | 294.910 | 4112.42 | -132.80 | 180.76 | -420.93 | 40°12'09.605"N | 104°48'26.874"W | 0.47 | |
| 4235.00 | 9.190 | 288.350 | 4196.23 | -136.55 | 186.00 | -434.06 | 40°12'09.657"N | 104°48'27.043"W | 1.58 | |
| 4320.00 | 9.830 | 290.050 | 4280.06 | -139.67 | 190.63 | -447.32 | 40°12'09.703"N | 104°48'27.214"W | 0.82 | |
| 4405.00 | 9.580 | 288.410 | 4363.85 | -142.86 | 195.35 | -460.84 | 40°12'09.749"N | 104°48'27.388"W | 0.44 | |
| 4490.00 | 10.000 | 292.500 | 4447.61 | -146.38 | 200.41 | -474.37 | 40°12'09.799"N | 104°48'27.563"W | 0.96 | |
| 4575.00 | 9.620 | 292.130 | 4531.37 | -150.35 | 205.91 | -487.77 | 40°12'09.854"N | 104°48'27.735"W | 0.45 | |
| 4660.00 | 9.310 | 291.260 | 4615.21 | -154.05 | 211.08 | -500.76 | 40°12'09.905"N | 104°48'27.903"W | 0.40 | |
| 4746.00 | 8.590 | 290.630 | 4700.16 | -157.41 | 215.86 | -513.25 | 40°12'09.952"N | 104°48'28.064"W | 0.84 | |
| 4831.00 | 7.630 | 291.090 | 4784.31 | -160.41 | 220.13 | -524.46 | 40°12'09.994"N | 104°48'28.208"W | 1.13 | |
| 4916.00 | 7.000 | 290.150 | 4868.62 | -163.07 | 223.94 | -534.58 | 40°12'10.032"N | 104°48'28.339"W | 0.75 | |
| 5001.00 | 6.700 | 292.410 | 4953.01 | -165.67 | 227.62 | -544.03 | 40°12'10.068"N | 104°48'28.460"W | 0.47 | |
| 5086.00 | 6.520 | 291.620 | 5037.45 | -168.31 | 231.29 | -553.10 | 40°12'10.105"N | 104°48'28.577"W | 0.24 | |
| 5171.00 | 6.230 | 293.320 | 5121.92 | -170.92 | 234.89 | -561.82 | 40°12'10.140"N | 104°48'28.690"W | 0.41 | |
| 5257.00 | 5.500 | 292.840 | 5207.47 | -173.44 | 238.34 | -569.91 | 40°12'10.174"N | 104°48'28.794"W | 0.85 | |
| 5342.00 | 5.070 | 292.340 | 5292.11 | -175.63 | 241.35 | -577.13 | 40°12'10.204"N | 104°48'28.887"W | 0.51 | |
| 5427.00 | 4.830 | 293.370 | 5376.79 | -177.71 | 244.19 | -583.89 | 40°12'10.232"N | 104°48'28.974"W | 0.30 | |
| 5512.00 | 4.270 | 292.060 | 5461.52 | -179.61 | 246.80 | -590.11 | 40°12'10.258"N | 104°48'29.054"W | 0.67 | |
| 5597.00 | 3.520 | 289.700 | 5546.33 | -181.06 | 248.87 | -595.50 | 40°12'10.278"N | 104°48'29.124"W | 0.90 | |
| 5682.00 | 2.140 | 277.420 | 5631.22 | -181.69 | 249.95 | -599.53 | 40°12'10.289"N | 104°48'29.176"W | 1.76 | |
| 5767.00 | 1.080 | 273.660 | 5716.19 | -181.68 | 250.21 | -601.90 | 40°12'10.291"N | 104°48'29.206"W | 1.25 | |
| 5852.00 | 0.360 | 1.670 | 5801.18 | -181.91 | 250.53 | -602.70 | 40°12'10.295"N | 104°48'29.216"W | 1.33 | |
| 5938.00 | 0.620 | 341.590 | 5887.18 | -182.60 | 251.24 | -602.83 | 40°12'10.302"N | 104°48'29.218"W | 0.36 | |
| 6023.00 | 0.350 | 6.440 | 5972.18 | -183.28 | 251.93 | -602.95 | 40°12'10.309"N | 104°48'29.220"W | 0.40 | |
| 6108.00 | 0.490 | 345.210 | 6057.17 | -183.88 | 252.54 | -603.01 | 40°12'10.315"N | 104°48'29.221"W | 0.24 | |
| 6193.00 | 0.370 | 315.850 | 6142.17 | -184.39 | 253.09 | -603.30 | 40°12'10.320"N | 104°48'29.224"W | 0.29 | |
| 6278.00 | 0.440 | 272.570 | 6227.17 | -184.54 | 253.30 | -603.82 | 40°12'10.322"N | 104°48'29.231"W | 0.36 | |
| 6363.00 | 0.360 | 256.530 | 6312.17 | -184.43 | 253.26 | -604.40 | 40°12'10.322"N | 104°48'29.238"W | 0.16 | |
| 6449.00 | 0.460 | 244.730 | 6398.17 | -184.16 | 253.05 | -604.98 | 40°12'10.320"N | 104°48'29.246"W | 0.15 | |
| 6534.00 | 0.580 | 101.870 | 6483.16 | -183.94 | 252.81 | -604.86 | 40°12'10.317"N | 104°48'29.244"W | 1.16 | |
| 6580.00 | 0.590 | 142.690 | 6529.16 | -183.74 | 252.58 | -604.49 | 40°12'10.315"N | 104°48'29.240"W | 0.89 | |
| 6619.00 | 0.800 | 159.270 | 6568.16 | -183.36 | 252.16 | -604.27 | 40°12'10.311"N | 104°48'29.237"W | 0.74 | |
| 6649.00 | 2.660 | 185.570 | 6598.14 | -182.47 | 251.27 | -604.27 | 40°12'10.302"N | 104°48'29.237"W | 6.58 | |
| 6679.00 | 6.130 | 169.020 | 6628.05 | -180.25 | 249.01 | -604.03 | 40°12'10.280"N | 104°48'29.234"W | 12.20 | |
| 6709.00 | 10.190 | 171.080 | 6657.74 | -176.16 | 244.81 | -603.31 | 40°12'10.238"N | 104°48'29.224"W | 13.57 | |
| 6739.00 | 12.690 | 175.520 | 6687.14 | -170.36 | 238.90 | -602.64 | 40°12'10.180"N | 104°48'29.216"W | 8.83 | |
| 6769.00 | 15.040 | 177.520 | 6716.27 | -163.28 | 231.73 | -602.22 | 40°12'10.109"N | 104°48'29.210"W | 7.99 | |
| 6799.00 | 16.790 | 175.670 | 6745.12 | -155.18 | 223.52 | -601.72 | 40°12'10.028"N | 104°48'29.204"W | 6.07 | |
| 6829.00 | 19.430 | 176.650 | 6773.63 | -146.00 | 214.21 | -601.10 | 40°12'09.936"N | 104°48'29.196"W | 8.86 | |
| 6859.00 | 23.100 | 176.890 | 6801.58 | -135.27 | 203.35 | -600.49 | 40°12'09.828"N | 104°48'29.188"W | 12.24 | |
| 6889.00 | 26.180 | 178.590 | 6828.85 | -122.91 | 190.86 | -600.01 | 40°12'09.705"N | 104°48'29.182"W | 10.53 | |
| 6919.00 | 29.040 | 179.610 | 6855.43 | -109.12 | 176.96 | -599.80 | 40°12'09.568"N | 104°48'29.179"W | 9.66 | |
| 6949.00 | 32.330 | 180.530 | 6881.22 | -93.90 | 161.65 | -599.82 | 40°12'09.416"N | 104°48'29.179"W | 11.08 | |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

WELLPATH DATA (160 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|-----------------|
| 6979.00 | 35.390 | 180.780 | 6906.13 | -77.27 | 144.94 | -600.01 | 40°12'09.251"N | 104°48'29.182"W | 10.21 | |
| 7009.00 | 38.550 | 180.660 | 6930.10 | -59.32 | 126.90 | -600.24 | 40°12'09.073"N | 104°48'29.185"W | 10.54 | |
| 7039.00 | 41.780 | 181.130 | 6953.02 | -40.06 | 107.56 | -600.55 | 40°12'08.882"N | 104°48'29.189"W | 10.81 | |
| 7069.00 | 44.890 | 181.140 | 6974.84 | -19.57 | 86.97 | -600.95 | 40°12'08.678"N | 104°48'29.194"W | 10.37 | |
| 7099.00 | 47.340 | 180.750 | 6995.63 | 1.96 | 65.36 | -601.31 | 40°12'08.465"N | 104°48'29.199"W | 8.22 | |
| 7129.00 | 49.460 | 180.130 | 7015.55 | 24.27 | 42.92 | -601.48 | 40°12'08.243"N | 104°48'29.201"W | 7.23 | |
| 7159.00 | 52.210 | 180.020 | 7034.50 | 47.39 | 19.67 | -601.51 | 40°12'08.013"N | 104°48'29.201"W | 9.17 | |
| 7189.00 | 55.380 | 179.540 | 7052.21 | 71.43 | -4.54 | -601.41 | 40°12'07.774"N | 104°48'29.200"W | 10.65 | |
| 7219.00 | 58.430 | 179.300 | 7068.59 | 96.37 | -29.67 | -601.16 | 40°12'07.526"N | 104°48'29.197"W | 10.19 | |
| 7249.00 | 60.880 | 178.490 | 7083.75 | 122.04 | -55.55 | -600.66 | 40°12'07.270"N | 104°48'29.190"W | 8.49 | |
| 7279.00 | 63.620 | 179.620 | 7097.72 | 148.37 | -82.09 | -600.22 | 40°12'07.008"N | 104°48'29.184"W | 9.72 | |
| 7309.00 | 65.850 | 180.090 | 7110.52 | 175.32 | -109.22 | -600.15 | 40°12'06.740"N | 104°48'29.184"W | 7.57 | |
| 7339.00 | 66.810 | 180.390 | 7122.56 | 202.64 | -136.70 | -600.27 | 40°12'06.468"N | 104°48'29.185"W | 3.33 | |
| 7369.00 | 69.360 | 181.530 | 7133.76 | 230.34 | -164.52 | -600.74 | 40°12'06.193"N | 104°48'29.191"W | 9.20 | |
| 7399.00 | 73.000 | 183.390 | 7143.44 | 258.67 | -192.88 | -601.96 | 40°12'05.913"N | 104°48'29.207"W | 13.48 | |
| 7429.00 | 76.360 | 184.450 | 7151.36 | 287.57 | -221.75 | -603.94 | 40°12'05.628"N | 104°48'29.232"W | 11.71 | |
| 7459.00 | 80.780 | 184.680 | 7157.31 | 316.95 | -251.05 | -606.28 | 40°12'05.338"N | 104°48'29.263"W | 14.75 | |
| 7489.00 | 84.570 | 184.740 | 7161.13 | 346.69 | -280.70 | -608.73 | 40°12'05.045"N | 104°48'29.294"W | 12.63 | |
| 7515.00† | 87.210 | 183.873 | 7162.99 | 372.60 | -306.56 | -610.67 | 40°12'04.790"N | 104°48'29.319"W | 10.69 | 7" Casing Point |
| 7547.00 | 90.460 | 182.810 | 7163.64 | 404.55 | -338.49 | -612.54 | 40°12'04.474"N | 104°48'29.343"W | 10.69 | |
| 7633.00 | 90.700 | 180.610 | 7162.77 | 490.25 | -424.44 | -615.10 | 40°12'03.625"N | 104°48'29.376"W | 2.57 | |
| 7718.00 | 90.400 | 178.350 | 7161.96 | 574.62 | -509.43 | -614.33 | 40°12'02.785"N | 104°48'29.366"W | 2.68 | |
| 7803.00 | 89.660 | 177.640 | 7161.91 | 658.71 | -594.38 | -611.36 | 40°12'01.945"N | 104°48'29.328"W | 1.21 | |
| 7888.00 | 89.810 | 176.230 | 7162.31 | 742.55 | -679.25 | -606.81 | 40°12'01.107"N | 104°48'29.269"W | 1.67 | |
| 7973.00 | 89.900 | 175.270 | 7162.52 | 826.09 | -764.02 | -600.51 | 40°12'00.269"N | 104°48'29.188"W | 1.13 | |
| 8058.00 | 89.900 | 173.990 | 7162.67 | 909.31 | -848.64 | -592.56 | 40°11'59.433"N | 104°48'29.085"W | 1.51 | |
| 8144.00 | 89.840 | 173.690 | 7162.86 | 993.25 | -934.14 | -583.33 | 40°11'58.588"N | 104°48'28.967"W | 0.36 | |
| 8229.00 | 90.150 | 172.280 | 7162.87 | 1075.93 | -1018.51 | -572.95 | 40°11'57.754"N | 104°48'28.833"W | 1.70 | |
| 8314.00 | 89.220 | 171.890 | 7163.34 | 1158.30 | -1102.69 | -561.25 | 40°11'56.922"N | 104°48'28.682"W | 1.19 | |
| 8399.00 | 90.330 | 172.700 | 7163.67 | 1240.74 | -1186.92 | -549.85 | 40°11'56.090"N | 104°48'28.535"W | 1.62 | |
| 8484.00 | 91.070 | 172.660 | 7162.63 | 1323.31 | -1271.22 | -539.02 | 40°11'55.257"N | 104°48'28.395"W | 0.87 | |
| 8569.00 | 89.350 | 173.310 | 7162.32 | 1405.99 | -1355.58 | -528.64 | 40°11'54.423"N | 104°48'28.262"W | 2.16 | |
| 8654.00 | 89.470 | 173.090 | 7163.20 | 1488.74 | -1439.98 | -518.58 | 40°11'53.589"N | 104°48'28.132"W | 0.29 | |
| 8740.00 | 89.440 | 173.210 | 7164.02 | 1572.45 | -1525.36 | -508.32 | 40°11'52.745"N | 104°48'28.000"W | 0.14 | |
| 8825.00 | 89.530 | 172.520 | 7164.78 | 1655.09 | -1609.70 | -497.76 | 40°11'51.912"N | 104°48'27.864"W | 0.82 | |
| 8910.00 | 89.570 | 173.960 | 7165.45 | 1737.86 | -1694.11 | -487.76 | 40°11'51.078"N | 104°48'27.735"W | 1.69 | |
| 8995.00 | 89.690 | 175.410 | 7166.00 | 1821.09 | -1778.74 | -479.88 | 40°11'50.242"N | 104°48'27.633"W | 1.71 | |
| 9080.00 | 89.780 | 175.990 | 7166.39 | 1904.61 | -1863.50 | -473.51 | 40°11'49.404"N | 104°48'27.551"W | 0.69 | |
| 9165.00 | 89.910 | 175.820 | 7166.62 | 1988.19 | -1948.28 | -467.44 | 40°11'48.566"N | 104°48'27.473"W | 0.25 | |
| 9250.00 | 89.940 | 177.400 | 7166.73 | 2071.96 | -2033.13 | -462.42 | 40°11'47.728"N | 104°48'27.408"W | 1.86 | |
| 9335.00 | 90.250 | 179.340 | 7166.59 | 2156.12 | -2118.09 | -460.00 | 40°11'46.888"N | 104°48'27.377"W | 2.31 | |
| 9421.00 | 90.460 | 180.930 | 7166.06 | 2241.60 | -2204.08 | -460.20 | 40°11'46.038"N | 104°48'27.379"W | 1.86 | |
| 9506.00 | 90.620 | 180.570 | 7165.26 | 2326.19 | -2289.07 | -461.31 | 40°11'45.198"N | 104°48'27.394"W | 0.46 | |
| 9591.00 | 90.150 | 182.090 | 7164.68 | 2410.85 | -2374.04 | -463.29 | 40°11'44.359"N | 104°48'27.419"W | 1.87 | |
| 9676.00 | 89.380 | 182.580 | 7165.03 | 2495.64 | -2458.97 | -466.75 | 40°11'43.519"N | 104°48'27.464"W | 1.07 | |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

WELLPATH DATA (160 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|-------------------------|
| 9761.00 | 90.220 | 181.380 | 7165.33 | 2580.38 | -2543.92 | -469.69 | 40°11'42.680"N | 104°48'27.502"W | 1.72 | |
| 9847.00 | 90.220 | 181.420 | 7165.00 | 2666.06 | -2629.89 | -471.79 | 40°11'41.830"N | 104°48'27.529"W | 0.05 | |
| 9932.00 | 90.710 | 181.880 | 7164.31 | 2750.76 | -2714.85 | -474.23 | 40°11'40.991"N | 104°48'27.560"W | 0.79 | |
| 10017.00 | 89.260 | 181.330 | 7164.33 | 2835.47 | -2799.82 | -476.61 | 40°11'40.151"N | 104°48'27.591"W | 1.82 | |
| 10102.00 | 89.140 | 181.350 | 7165.52 | 2920.13 | -2884.79 | -478.60 | 40°11'39.312"N | 104°48'27.616"W | 0.14 | |
| 10187.00 | 88.980 | 181.440 | 7166.91 | 3004.79 | -2969.75 | -480.67 | 40°11'38.472"N | 104°48'27.643"W | 0.22 | |
| 10272.00 | 88.400 | 181.170 | 7168.86 | 3089.44 | -3054.71 | -482.61 | 40°11'37.632"N | 104°48'27.668"W | 0.75 | |
| 10358.00 | 89.750 | 181.210 | 7170.25 | 3175.07 | -3140.67 | -484.39 | 40°11'36.783"N | 104°48'27.691"W | 1.57 | |
| 10443.00 | 89.380 | 181.080 | 7170.89 | 3259.71 | -3225.65 | -486.09 | 40°11'35.943"N | 104°48'27.713"W | 0.46 | |
| 10527.00 | 89.260 | 180.570 | 7171.89 | 3343.31 | -3309.64 | -487.30 | 40°11'35.113"N | 104°48'27.728"W | 0.62 | |
| 10613.00 | 89.930 | 181.520 | 7172.50 | 3428.93 | -3395.62 | -488.87 | 40°11'34.263"N | 104°48'27.749"W | 1.35 | |
| 10698.00 | 89.720 | 181.510 | 7172.75 | 3513.62 | -3480.59 | -491.12 | 40°11'33.424"N | 104°48'27.777"W | 0.25 | |
| 10783.00 | 89.690 | 181.040 | 7173.19 | 3598.28 | -3565.57 | -493.01 | 40°11'32.584"N | 104°48'27.802"W | 0.55 | |
| 10867.00 | 89.840 | 181.170 | 7173.54 | 3681.93 | -3649.55 | -494.63 | 40°11'31.754"N | 104°48'27.823"W | 0.24 | |
| 10953.00 | 88.200 | 180.390 | 7175.01 | 3767.50 | -3735.53 | -495.80 | 40°11'30.905"N | 104°48'27.838"W | 2.11 | |
| 11038.00 | 88.290 | 179.820 | 7177.61 | 3851.95 | -3820.49 | -495.95 | 40°11'30.065"N | 104°48'27.840"W | 0.68 | |
| 11123.00 | 88.180 | 180.150 | 7180.23 | 3936.38 | -3905.45 | -495.93 | 40°11'29.225"N | 104°48'27.839"W | 0.41 | |
| 11208.00 | 87.830 | 179.820 | 7183.19 | 4020.80 | -3990.40 | -495.91 | 40°11'28.386"N | 104°48'27.839"W | 0.57 | |
| 11294.00 | 88.820 | 181.580 | 7185.70 | 4106.33 | -4076.35 | -496.96 | 40°11'27.537"N | 104°48'27.853"W | 2.35 | |
| 11379.00 | 88.640 | 181.190 | 7187.59 | 4190.99 | -4161.30 | -499.01 | 40°11'26.697"N | 104°48'27.879"W | 0.51 | |
| 11463.00 | 88.270 | 181.350 | 7189.85 | 4274.62 | -4245.25 | -500.87 | 40°11'25.867"N | 104°48'27.903"W | 0.48 | |
| 11548.00 | 87.840 | 181.140 | 7192.74 | 4359.23 | -4330.18 | -502.72 | 40°11'25.028"N | 104°48'27.927"W | 0.56 | |
| 11634.00 | 87.590 | 180.960 | 7196.16 | 4444.79 | -4416.10 | -504.29 | 40°11'24.179"N | 104°48'27.947"W | 0.36 | |
| 11681.00 | 87.980 | 180.930 | 7197.98 | 4491.54 | -4463.06 | -505.07 | 40°11'23.715"N | 104°48'27.957"W | 0.83 | End BHI MWD+IFR Surveys |
| 11737.00 | 87.980 | 180.930 | 7199.96 | 4547.25 | -4519.01 | -505.98 | 40°11'23.162"N | 104°48'27.969"W | 0.00 | Projection to Bit |

HOLE & CASING SECTIONS - Ref Wellbore: NORTON 13N-29HZ AWB Ref Wellpath: NORTON 13N-29HZ AWP

| String/Diameter | Start MD [ft] | End MD [ft] | Interval [ft] | Start TVD [ft] | End TVD [ft] | Start N/S [ft] | Start E/W [ft] | End N/S [ft] | End E/W [ft] |
|-------------------------|---------------|-------------|---------------|----------------|--------------|----------------|----------------|--------------|--------------|
| 13.5in Open Hole | 17.00 | 932.00 | 915.00 | 17.00 | 931.97 | 0.00 | 0.00 | 4.05 | -5.72 |
| 9.625in Casing Surface | 17.00 | 932.00 | 915.00 | 17.00 | 931.97 | 0.00 | 0.00 | 4.05 | -5.72 |
| 8.75in Open Hole | 932.00 | 7530.00 | 6598.00 | 931.97 | 7163.52 | 4.05 | -5.72 | -321.52 | -611.62 |
| 7in Casing Intermediate | 17.00 | 7515.00 | 7498.00 | 17.00 | 7162.99 | 0.00 | 0.00 | -306.56 | -610.67 |
| 6.125in Open Hole | 7515.00 | 11737.00 | 4222.00 | 7162.99 | 7199.96 | -306.56 | -610.67 | -4519.01 | -505.98 |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|---|---------|----------|------------|-----------|-------------------|--------------------|-----------------------|------------------------|---------|
| RAYMOND PAD SECTION LINES | | -29.00 | 86.17 | 2777.13 | 3196636.19 | 1317360.22 | 40°12'08.669"N | 104°47'45.658"W | polygon |
| NORTON 13N-29HZ BHL (460'FSL & 750'FWL, SEC.29) REV-2 | | 7198.00 | -4544.22 | -506.21 | 3193389.34 | 1312704.48 | 40°11'22.913"N | 104°48'27.972"W | point |
| NORTON 13N-29HZ BHL ON PLAT (460'FSL & 750'FWL, SEC.29) REV-1 | | 7198.00 | -4544.22 | -556.21 | 3193339.34 | 1312704.09 | 40°11'22.913"N | 104°48'28.616"W | point |
| NORTON 13N-29HZ LAND BOX | | 7200.00 | 0.00 | 0.00 | 3193859.94 | 1317252.32 | 40°12'07.819"N | 104°48'21.449"W | polygon |
| NORTON 13N-29HZ BHL (460'FSL & 750'FWL, SEC.29) REV-3 | | 7203.00 | -4544.22 | -506.21 | 3193389.34 | 1312704.48 | 40°11'22.913"N | 104°48'27.972"W | point |
| RAYMOND PAD HARDLINES (460' SETBACKS) | | 7471.00 | 86.17 | 2777.13 | 3196636.19 | 1317360.22 | 40°12'08.669"N | 104°47'45.658"W | polygon |

WELLPATH COMPOSITION - Ref Wellbore: NORTON 13N-29HZ AWB Ref Wellpath: NORTON 13N-29HZ AWP

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|--------------------------------------|--|-------------------|
| 17.00 | 882.00 | Generic gyro - continuous (Standard) | GYRODATA SURVEYS <117-882> | NORTON 13N-29HZ A |
| 882.00 | 7489.00 | NaviTrak (MAGCORR,IFR) | BHI MWD+IFR SURVEYS 8 3/4" HOLE <974-7489> | NORTON 13N-29HZ A |
| 7489.00 | 11681.00 | NaviTrak (Standard) | BHI MWD+IFR SURVEYS 6 1/8" HOLE <7547-11681> | NORTON 13N-29HZ A |
| 11681.00 | 11737.00 | Blind Drilling (std) | Projection to bit | NORTON 13N-29HZ A |



Actual Wellpath Report

NORTON 13N-29HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#35 NORTON 13N-29HZ (310'FNL & 1307'FWL, SEC.29) |
| Area | COLORADO | Well | NORTON 13N-29HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | NORTON 13N-29HZ AWB |
| Facility | SEC.29-T3N-R66W | | |

WELLPATH COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|------------|--------------------|----------------|-------------|---------------------------|
| 17.00 | 0.000 | 314.250 | 17.00 | Tie-On |
| 117.00 | 0.260 | 314.250 | 117.00 | Begin GYRO Surveys |
| 882.00 | 0.320 | 6.270 | 881.97 | Tie-Into GYRO Surveys |
| 974.00 | 0.590 | 359.300 | 973.96 | Begin BHI MWD+IFR Surveys |
| 7515.00 | 87.210 | 183.873 | 7162.99 | 7" Casing Point |
| 11681.00 | 87.980 | 180.930 | 7197.98 | End BHI MWD+IFR Surveys |
| 11737.00 | 87.980 | 180.930 | 7199.96 | Projection to Bit |