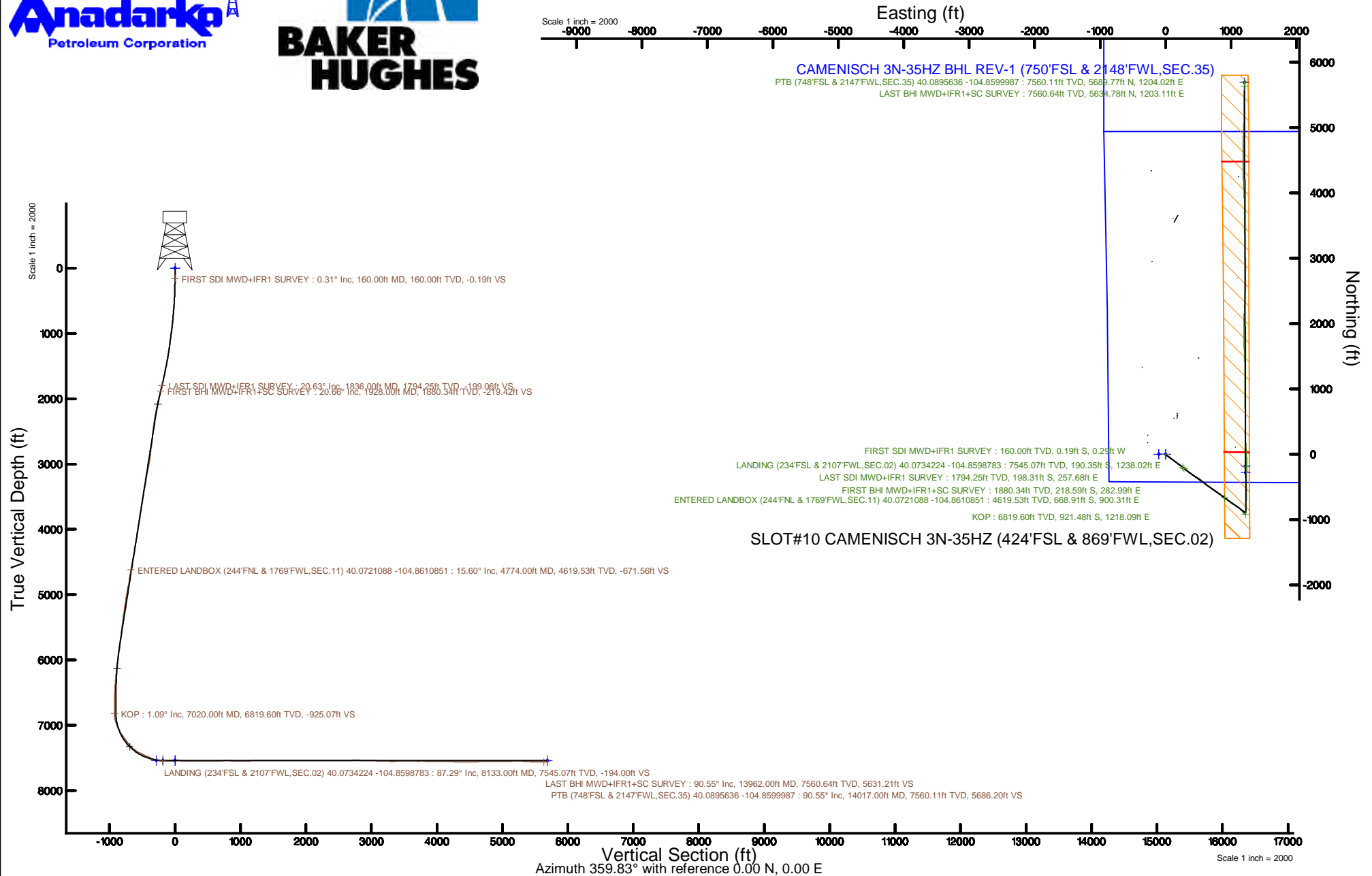


KERR-MCGEE OIL & GAS ONSHORE LP (WA)

Location: COLORADO Slot: SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02)
Field: WELD COUNTY (UTM/TRUE NORTH) Well: CAMENISCH 3N-35HZ
Facility: SEC.02-T1N-R67W Wellbore: CAMENISCH 3N-35HZ PWB

| | |
|--|--|
| Plot reference wellpath is CAMENISCH 3N-35HZ PWP Rev-B.1 | Grid System: NAD83 / UTM Zone 13 North, US feet |
| True vertical depths are referenced to NABORS X22 (32) (RT) | * = Wellpath was transformed from a different geodetic datum |
| Measured depths are referenced to NABORS X22 (32) (RT) | North Reference: True north |
| NABORS X22 (32) (RT) to Mean Sea Level: 5068 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: painsetr on 2017-05-15 |
| | Database: WA_DEN_Anadarko_Defn |



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|--------------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02) |
| Area | COLORADO | Well | CAMENISCH 3N-35HZ |
| Field | WELD COUNTY (UTM/TRUE NORTH) | Wellbore | CAMENISCH 3N-35HZ AWB |
| Facility | SEC.02-T1N-R67W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|------------------------------------|----------------------|--|
| Projection System | NAD83 / UTM Zone 13 North, US feet | Software System | WellArchitect® 5.0 |
| North Reference | True | User | Painsetr |
| Scale | 0.999602 | Report Generated | 5/15/2017 at 2:49 PM |
| Convergence at slot | 0.09° East | Database/Source file | WA_DEN_Anadarko_Defn/CAMENISCH_3N-35HZ_AWP.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | -3595.96 | -152.52 | 1678378.02 | 14553688.95 | 40°04'26.202"N | 104°51'51.487"W |
| Facility Reference Pt | | | 1678524.98 | 14557283.70 | 40°05'01.738"N | 104°51'49.525"W |
| Field Reference Pt | | | 1698235.31 | 14552047.82 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | | |
|--------------------------|-----------------------|--|-------------------|
| Calculation method | Minimum curvature | NABORS X22 (32') (RT) to Facility Vertical Datum | 5068.00ft |
| Horizontal Reference Pt | Slot | NABORS X22 (32') (RT) to Mean Sea Level | 5068.00ft |
| Vertical Reference Pt | NABORS X22 (32') (RT) | NABORS X22 (32') (RT) to Mud Line at Slot (SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02)) | 5068.00ft |
| MD Reference Pt | NABORS X22 (32') (RT) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 11.95° |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|--------------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL, SEC.02) |
| Area | COLORADO | Well | CAMENISCH 3N-35HZ |
| Field | WELD COUNTY (UTM/TRUE NORTH) | Wellbore | CAMENISCH 3N-35HZ AWP |
| Facility | SEC.02-T1N-R67W | | |

WELLPATH DATA (154 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|---------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|------------------------------|
| 0.00† | 0.000 | 236.580 | 0.00 | 0.00 | 0.00 | 0.00 | 1678378.02 | 14553688.95 | 40°04'26.202"N | 104°51'51.487"W | 0.00 | |
| 32.00 | 0.000 | 236.580 | 32.00 | 0.00 | 0.00 | 0.00 | 1678378.02 | 14553688.95 | 40°04'26.202"N | 104°51'51.487"W | 0.00 | |
| 160.00 | 0.310 | 236.580 | 160.00 | -0.25 | -0.19 | -0.29 | 1678377.73 | 14553688.76 | 40°04'26.200"N | 104°51'51.491"W | 0.24 | FIRST SDI MWD+IFR1 SURVEY |
| 259.00 | 1.230 | 159.800 | 258.99 | -1.34 | -1.34 | -0.15 | 1678377.87 | 14553687.61 | 40°04'26.189"N | 104°51'51.489"W | 1.21 | |
| 345.00 | 2.540 | 157.480 | 344.94 | -3.69 | -3.96 | 0.90 | 1678378.93 | 14553684.99 | 40°04'26.163"N | 104°51'51.475"W | 1.53 | |
| 434.00 | 3.530 | 134.470 | 433.82 | -6.79 | -7.70 | 3.61 | 1678381.64 | 14553681.25 | 40°04'26.126"N | 104°51'51.441"W | 1.74 | |
| 523.00 | 5.140 | 130.030 | 522.56 | -10.14 | -12.19 | 8.62 | 1678386.66 | 14553676.78 | 40°04'26.082"N | 104°51'51.376"W | 1.85 | |
| 612.00 | 6.720 | 129.100 | 611.08 | -14.39 | -18.04 | 15.72 | 1678393.76 | 14553670.94 | 40°04'26.024"N | 104°51'51.285"W | 1.78 | |
| 698.00 | 8.100 | 126.780 | 696.36 | -19.23 | -24.84 | 24.47 | 1678402.52 | 14553664.16 | 40°04'25.957"N | 104°51'51.172"W | 1.64 | |
| 787.00 | 9.530 | 124.270 | 784.31 | -24.66 | -32.74 | 35.59 | 1678413.64 | 14553656.28 | 40°04'25.878"N | 104°51'51.029"W | 1.66 | |
| 876.00 | 11.050 | 125.460 | 871.88 | -30.87 | -41.84 | 48.62 | 1678426.68 | 14553647.20 | 40°04'25.789"N | 104°51'50.862"W | 1.72 | |
| 965.00 | 12.210 | 127.500 | 959.05 | -38.33 | -52.52 | 63.04 | 1678441.11 | 14553636.55 | 40°04'25.683"N | 104°51'50.676"W | 1.38 | |
| 1052.00 | 12.720 | 127.740 | 1044.00 | -46.46 | -63.98 | 77.91 | 1678455.99 | 14553625.11 | 40°04'25.570"N | 104°51'50.485"W | 0.59 | |
| 1138.00 | 12.750 | 126.180 | 1127.88 | -54.48 | -75.38 | 93.06 | 1678471.15 | 14553613.75 | 40°04'25.457"N | 104°51'50.290"W | 0.40 | |
| 1225.00 | 13.760 | 124.980 | 1212.56 | -62.47 | -86.98 | 109.28 | 1678487.39 | 14553602.18 | 40°04'25.342"N | 104°51'50.081"W | 1.20 | |
| 1312.00 | 15.210 | 125.620 | 1296.80 | -71.10 | -99.55 | 127.04 | 1678505.16 | 14553589.63 | 40°04'25.218"N | 104°51'49.853"W | 1.68 | |
| 1398.00 | 15.850 | 127.740 | 1379.66 | -80.74 | -113.31 | 145.50 | 1678523.63 | 14553575.90 | 40°04'25.082"N | 104°51'49.615"W | 0.99 | |
| 1487.00 | 17.300 | 126.810 | 1464.96 | -91.59 | -128.68 | 165.71 | 1678543.85 | 14553560.57 | 40°04'24.930"N | 104°51'49.355"W | 1.66 | |
| 1576.00 | 18.000 | 126.940 | 1549.77 | -102.96 | -144.88 | 187.29 | 1678565.46 | 14553544.42 | 40°04'24.770"N | 104°51'49.078"W | 0.79 | |
| 1707.00 | 20.180 | 126.910 | 1673.55 | -121.05 | -170.61 | 221.54 | 1678599.73 | 14553518.74 | 40°04'24.516"N | 104°51'48.637"W | 1.66 | |
| 1793.00 | 21.010 | 127.380 | 1754.06 | -133.93 | -188.88 | 245.65 | 1678623.86 | 14553500.52 | 40°04'24.335"N | 104°51'48.327"W | 0.98 | |
| 1836.00 | 20.630 | 128.770 | 1794.25 | -140.66 | -198.31 | 257.68 | 1678635.90 | 14553491.12 | 40°04'24.242"N | 104°51'48.172"W | 1.45 | LAST SDI MWD+IFR1 SURVEY |
| 1928.00 | 20.660 | 128.650 | 1880.34 | -155.27 | -218.59 | 282.99 | 1678661.23 | 14553470.88 | 40°04'24.042"N | 104°51'47.847"W | 0.06 | FIRST BHI MWD+IFR1+SC SURVEY |
| 2021.00 | 20.260 | 128.750 | 1967.47 | -169.90 | -238.92 | 308.37 | 1678686.62 | 14553450.60 | 40°04'23.841"N | 104°51'47.520"W | 0.43 | |
| 2116.00 | 19.380 | 129.040 | 2056.85 | -184.49 | -259.14 | 333.44 | 1678711.72 | 14553430.42 | 40°04'23.641"N | 104°51'47.198"W | 0.93 | |
| 2210.00 | 18.930 | 129.200 | 2145.64 | -198.58 | -278.60 | 357.37 | 1678735.66 | 14553411.01 | 40°04'23.449"N | 104°51'46.890"W | 0.48 | |
| 2303.00 | 17.560 | 124.760 | 2233.97 | -210.93 | -296.13 | 380.58 | 1678758.90 | 14553393.51 | 40°04'23.276"N | 104°51'46.591"W | 2.10 | |
| 2397.00 | 16.200 | 124.330 | 2323.92 | -221.42 | -311.61 | 403.06 | 1678781.39 | 14553378.07 | 40°04'23.123"N | 104°51'46.302"W | 1.45 | |
| 2491.00 | 12.300 | 122.260 | 2415.01 | -229.89 | -324.36 | 422.37 | 1678800.71 | 14553365.36 | 40°04'22.997"N | 104°51'46.054"W | 4.18 | |
| 2584.00 | 11.260 | 120.570 | 2506.05 | -236.23 | -334.26 | 438.56 | 1678816.91 | 14553355.49 | 40°04'22.899"N | 104°51'45.846"W | 1.18 | |
| 2677.00 | 12.020 | 124.930 | 2597.14 | -242.91 | -344.43 | 454.32 | 1678832.68 | 14553345.35 | 40°04'22.798"N | 104°51'45.643"W | 1.25 | |
| 2771.00 | 13.770 | 122.300 | 2688.76 | -250.62 | -356.01 | 471.80 | 1678850.17 | 14553333.80 | 40°04'22.684"N | 104°51'45.418"W | 1.96 | |
| 2864.00 | 15.630 | 117.400 | 2778.72 | -257.81 | -367.69 | 492.28 | 1678870.66 | 14553322.16 | 40°04'22.568"N | 104°51'45.155"W | 2.40 | |
| 2958.00 | 14.470 | 115.890 | 2869.49 | -264.01 | -378.65 | 514.09 | 1678892.48 | 14553311.24 | 40°04'22.460"N | 104°51'44.874"W | 1.30 | |
| 3053.00 | 14.620 | 129.140 | 2961.47 | -272.35 | -391.40 | 534.07 | 1678912.47 | 14553298.52 | 40°04'22.334"N | 104°51'44.617"W | 3.50 | |
| 3147.00 | 16.900 | 132.860 | 3051.94 | -284.80 | -408.19 | 553.29 | 1678931.71 | 14553281.77 | 40°04'22.168"N | 104°51'44.370"W | 2.65 | |
| 3241.00 | 15.260 | 132.370 | 3142.26 | -298.08 | -425.82 | 572.45 | 1678950.88 | 14553264.18 | 40°04'21.994"N | 104°51'44.123"W | 1.75 | |
| 3336.00 | 13.640 | 132.960 | 3234.25 | -310.18 | -441.88 | 589.88 | 1678968.34 | 14553248.15 | 40°04'21.835"N | 104°51'43.899"W | 1.71 | |
| 3429.00 | 13.470 | 133.130 | 3324.66 | -321.44 | -456.76 | 605.81 | 1678984.28 | 14553233.30 | 40°04'21.688"N | 104°51'43.694"W | 0.19 | |
| 3523.00 | 15.380 | 131.580 | 3415.69 | -333.27 | -472.51 | 623.13 | 1679001.62 | 14553217.57 | 40°04'21.532"N | 104°51'43.472"W | 2.07 | |
| 3617.00 | 14.940 | 124.540 | 3506.43 | -344.09 | -487.66 | 642.44 | 1679020.94 | 14553202.47 | 40°04'21.383"N | 104°51'43.223"W | 2.01 | |
| 3710.00 | 15.250 | 120.770 | 3596.22 | -352.64 | -500.71 | 662.82 | 1679041.34 | 14553189.45 | 40°04'21.254"N | 104°51'42.961"W | 1.11 | |
| 3804.00 | 16.680 | 125.420 | 3686.59 | -362.01 | -514.86 | 684.44 | 1679062.97 | 14553175.34 | 40°04'21.114"N | 104°51'42.683"W | 2.04 | |
| 3897.00 | 14.800 | 126.050 | 3776.10 | -372.17 | -529.58 | 704.92 | 1679083.46 | 14553160.65 | 40°04'20.968"N | 104°51'42.419"W | 2.03 | |
| 3991.00 | 15.750 | 125.610 | 3866.78 | -382.20 | -544.08 | 725.00 | 1679103.56 | 14553146.19 | 40°04'20.825"N | 104°51'42.161"W | 1.02 | |

| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|--------------------------------------|--|--|----------|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | | | Slot |
| Area | COLORADO | | | Well |
| Field | WELD COUNTY (UTM/TRUE NORTH) | | | Wellbore |
| Facility | SEC.02-T1N-R67W | | | |
| | | | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02) | |
| | | | CAMENISCH 3N-35HZ | |
| | | | CAMENISCH 3N-35HZ AWB | |

| WELLPATH DATA (154 stations) † = interpolated/extrapolated station | | | | | | | | | | | | |
|--|--------------------|----------------|-------------|----------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|---|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 4085.00 | 15.950 | 120.940 | 3957.21 | -391.52 | -558.15 | 746.45 | 1679125.02 | 14553132.16 | 40°04'20.686"N | 104°51'41.885"W | 1.37 | |
| 4179.00 | 15.950 | 125.880 | 4047.60 | -400.96 | -572.36 | 767.99 | 1679146.58 | 14553117.99 | 40°04'20.546"N | 104°51'41.608"W | 1.44 | |
| 4272.00 | 16.850 | 123.890 | 4136.81 | -411.18 | -587.36 | 789.54 | 1679168.13 | 14553103.02 | 40°04'20.397"N | 104°51'41.331"W | 1.14 | |
| 4366.00 | 14.570 | 123.630 | 4227.30 | -420.64 | -601.51 | 810.69 | 1679189.30 | 14553088.92 | 40°04'20.258"N | 104°51'41.059"W | 2.43 | |
| 4460.00 | 15.380 | 127.120 | 4318.10 | -430.31 | -615.58 | 830.48 | 1679209.10 | 14553074.88 | 40°04'20.119"N | 104°51'40.804"W | 1.29 | |
| 4554.00 | 17.720 | 127.240 | 4408.20 | -441.73 | -631.76 | 851.81 | 1679230.45 | 14553058.74 | 40°04'19.959"N | 104°51'40.530"W | 2.49 | |
| 4647.00 | 15.960 | 128.250 | 4497.21 | -453.44 | -648.25 | 873.12 | 1679251.77 | 14553042.29 | 40°04'19.796"N | 104°51'40.256"W | 1.92 | |
| 4741.00 | 15.330 | 126.620 | 4587.73 | -464.36 | -663.66 | 893.24 | 1679271.91 | 14553026.92 | 40°04'19.643"N | 104°51'39.997"W | 0.82 | |
| 4774.00† | 15.604 | 126.577 | 4619.53 | -468.03 | -668.91 | 900.31 | 1679278.98 | 14553021.68 | 40°04'19.592"N | 104°51'39.906"W | 0.83 | ENTERED LANDBOX (244'FNL & 1769'FWL,SEC.11) 40.0721088 -104.8610851 |
| 4835.00† | 16.110 | 126.500 | 4678.21 | -474.96 | -678.83 | 913.70 | 1679292.38 | 14553011.79 | 40°04'19.494"N | 104°51'39.734"W | 0.83 | |
| 4929.00 | 14.450 | 127.140 | 4768.89 | -485.37 | -693.67 | 933.53 | 1679312.23 | 14552996.98 | 40°04'19.347"N | 104°51'39.479"W | 1.78 | |
| 5022.00 | 16.470 | 129.240 | 4858.52 | -496.36 | -709.02 | 952.99 | 1679331.71 | 14552981.67 | 40°04'19.195"N | 104°51'39.228"W | 2.25 | |
| 5142.00 | 15.240 | 129.450 | 4973.95 | -511.44 | -729.80 | 978.35 | 1679357.09 | 14552960.94 | 40°04'18.990"N | 104°51'38.902"W | 1.03 | |
| 5236.00 | 15.900 | 123.630 | 5064.51 | -521.90 | -744.78 | 998.61 | 1679377.36 | 14552945.99 | 40°04'18.842"N | 104°51'38.642"W | 1.80 | |
| 5329.00 | 14.770 | 121.450 | 5154.19 | -530.57 | -758.02 | 1019.33 | 1679398.10 | 14552932.79 | 40°04'18.711"N | 104°51'38.375"W | 1.36 | |
| 5424.00 | 15.910 | 121.740 | 5245.81 | -539.02 | -771.19 | 1040.74 | 1679419.51 | 14552919.66 | 40°04'18.581"N | 104°51'38.100"W | 1.20 | |
| 5518.00 | 15.160 | 121.670 | 5336.37 | -547.53 | -784.42 | 1062.16 | 1679440.94 | 14552906.46 | 40°04'18.450"N | 104°51'37.824"W | 0.80 | |
| 5611.00 | 13.610 | 120.160 | 5426.46 | -555.05 | -796.30 | 1081.97 | 1679460.77 | 14552894.61 | 40°04'18.333"N | 104°51'37.570"W | 1.71 | |
| 5706.00 | 11.760 | 122.970 | 5519.13 | -562.02 | -807.19 | 1099.76 | 1679478.56 | 14552883.76 | 40°04'18.225"N | 104°51'37.341"W | 2.05 | |
| 5800.00 | 12.760 | 126.730 | 5610.99 | -569.81 | -818.61 | 1116.11 | 1679494.93 | 14552872.37 | 40°04'18.112"N | 104°51'37.130"W | 1.36 | |
| 5893.00 | 11.580 | 127.600 | 5701.90 | -578.16 | -830.45 | 1131.74 | 1679510.57 | 14552860.56 | 40°04'17.995"N | 104°51'36.929"W | 1.28 | |
| 5988.00 | 11.370 | 131.900 | 5795.00 | -586.96 | -842.52 | 1146.26 | 1679525.11 | 14552848.51 | 40°04'17.876"N | 104°51'36.742"W | 0.93 | |
| 6082.00 | 10.530 | 139.170 | 5887.29 | -596.78 | -855.21 | 1158.78 | 1679537.63 | 14552835.85 | 40°04'17.750"N | 104°51'36.582"W | 1.72 | |
| 6176.00 | 8.890 | 138.080 | 5979.94 | -606.26 | -867.11 | 1169.25 | 1679548.12 | 14552823.97 | 40°04'17.633"N | 104°51'36.447"W | 1.76 | |
| 6270.00 | 8.380 | 142.720 | 6072.88 | -615.02 | -877.97 | 1178.25 | 1679557.13 | 14552813.13 | 40°04'17.525"N | 104°51'36.331"W | 0.92 | |
| 6363.00 | 8.790 | 145.070 | 6164.84 | -624.30 | -889.19 | 1186.42 | 1679565.32 | 14552801.93 | 40°04'17.415"N | 104°51'36.226"W | 0.58 | |
| 6458.00 | 7.140 | 139.840 | 6258.92 | -632.89 | -899.65 | 1194.39 | 1679573.30 | 14552791.48 | 40°04'17.311"N | 104°51'36.124"W | 1.90 | |
| 6552.00 | 5.200 | 138.270 | 6352.37 | -639.00 | -907.29 | 1200.99 | 1679579.91 | 14552783.85 | 40°04'17.236"N | 104°51'36.039"W | 2.07 | |
| 6646.00 | 4.200 | 135.880 | 6446.05 | -643.44 | -912.94 | 1206.22 | 1679585.15 | 14552778.21 | 40°04'17.180"N | 104°51'35.971"W | 1.08 | |
| 6740.00 | 3.700 | 130.780 | 6539.83 | -646.83 | -917.40 | 1210.92 | 1679589.85 | 14552773.77 | 40°04'17.136"N | 104°51'35.911"W | 0.65 | |
| 6835.00 | 3.160 | 125.570 | 6634.66 | -649.36 | -920.92 | 1215.37 | 1679594.30 | 14552770.25 | 40°04'17.101"N | 104°51'35.854"W | 0.66 | |
| 6929.00 | 0.290 | 77.210 | 6728.61 | -650.29 | -922.38 | 1217.71 | 1679596.64 | 14552768.80 | 40°04'17.087"N | 104°51'35.824"W | 3.17 | |
| 7020.00† | 1.087 | 10.962 | 6819.60 | -649.33 | -921.48 | 1218.09 | 1679597.03 | 14552769.70 | 40°04'17.095"N | 104°51'35.819"W | 1.11 | KOP |
| 7024.00 | 1.130 | 10.370 | 6823.60 | -649.26 | -921.40 | 1218.11 | 1679597.04 | 14552769.77 | 40°04'17.096"N | 104°51'35.818"W | 1.11 | |
| 7116.00 | 12.440 | 3.350 | 6914.81 | -638.52 | -910.58 | 1218.85 | 1679597.77 | 14552780.59 | 40°04'17.203"N | 104°51'35.809"W | 12.30 | |
| 7208.00 | 22.080 | 5.290 | 7002.56 | -611.48 | -883.41 | 1221.03 | 1679599.91 | 14552807.76 | 40°04'17.472"N | 104°51'35.781"W | 10.50 | |
| 7300.00 | 29.000 | 1.200 | 7085.53 | -572.35 | -843.84 | 1223.10 | 1679601.91 | 14552847.31 | 40°04'17.863"N | 104°51'35.754"W | 7.76 | |
| 7393.00 | 34.850 | 1.480 | 7164.43 | -524.03 | -794.70 | 1224.26 | 1679602.99 | 14552896.44 | 40°04'18.348"N | 104°51'35.739"W | 6.29 | |
| 7485.00 | 36.070 | 4.340 | 7239.37 | -471.33 | -741.41 | 1226.98 | 1679605.64 | 14552949.71 | 40°04'18.875"N | 104°51'35.704"W | 2.24 | |
| 7577.00 | 42.860 | 5.160 | 7310.35 | -413.34 | -683.17 | 1231.85 | 1679610.42 | 14553007.93 | 40°04'19.450"N | 104°51'35.641"W | 7.40 | |
| 7668.00 | 51.240 | 357.920 | 7372.34 | -348.03 | -616.73 | 1233.35 | 1679611.82 | 14553074.35 | 40°04'20.107"N | 104°51'35.622"W | 10.88 | |
| 7760.00 | 62.530 | 0.670 | 7422.53 | -272.95 | -539.81 | 1232.53 | 1679610.87 | 14553151.24 | 40°04'20.867"N | 104°51'35.633"W | 12.52 | |
| 7852.00 | 65.300 | 0.430 | 7462.98 | -191.96 | -457.19 | 1233.32 | 1679611.54 | 14553233.82 | 40°04'21.684"N | 104°51'35.622"W | 3.02 | |
| 7944.00 | 68.080 | 359.390 | 7499.38 | -109.34 | -372.71 | 1233.18 | 1679611.27 | 14553318.27 | 40°04'22.518"N | 104°51'35.624"W | 3.20 | |
| 8038.00 | 74.160 | 2.250 | 7529.79 | -22.11 | -283.83 | 1234.49 | 1679612.44 | 14553407.11 | 40°04'23.397"N | 104°51'35.607"W | 7.08 | |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|--------------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02) |
| Area | COLORADO | Well | CAMENISCH 3N-35HZ |
| Field | WELD COUNTY (UTM/TRUE NORTH) | Wellbore | CAMENISCH 3N-35HZ AWB |
| Facility | SEC.02-T1N-R67W | | |

WELLPATH DATA (154 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------------|---|
| 8133.00 | 87.290 | 2.080 | 7545.07 | 70.08 | -190.35 | 1238.02 | 1679615.83 | 14553500.57 | 40°04'24.321"N | 104°51'35.562"W | 13.82 | LANDING (234'FSL & 2107'FWL,SEC.02) 40.0734224 -104.8598783 |
| 8227.00 | 92.120 | 358.030 | 7545.55 | 162.02 | -96.39 | 1238.11 | 1679615.78 | 14553594.48 | 40°04'25.249"N | 104°51'35.561"W | 6.70 | |
| 8321.00 | 92.120 | 356.890 | 7542.08 | 252.96 | -2.55 | 1233.95 | 1679611.47 | 14553688.28 | 40°04'26.176"N | 104°51'35.614"W | 1.21 | |
| 8415.00 | 88.120 | 355.870 | 7541.88 | 343.50 | 91.24 | 1228.01 | 1679605.40 | 14553782.02 | 40°04'27.103"N | 104°51'35.690"W | 4.39 | |
| 8509.00 | 89.720 | 355.590 | 7543.65 | 433.74 | 184.96 | 1221.02 | 1679598.26 | 14553875.70 | 40°04'28.030"N | 104°51'35.780"W | 1.73 | |
| 8602.00 | 88.680 | 358.570 | 7544.95 | 523.60 | 277.82 | 1216.28 | 1679593.39 | 14553968.51 | 40°04'28.947"N | 104°51'35.841"W | 3.39 | |
| 8697.00 | 90.340 | 0.760 | 7545.76 | 616.41 | 372.80 | 1215.72 | 1679592.69 | 14554063.46 | 40°04'29.886"N | 104°51'35.848"W | 2.89 | |
| 8790.00 | 92.060 | 0.980 | 7543.81 | 707.66 | 465.77 | 1217.14 | 1679593.95 | 14554156.39 | 40°04'30.805"N | 104°51'35.830"W | 1.86 | |
| 8883.00 | 89.140 | 359.460 | 7542.84 | 798.70 | 558.75 | 1217.49 | 1679594.17 | 14554249.33 | 40°04'31.723"N | 104°51'35.825"W | 3.54 | |
| 8977.00 | 90.310 | 358.950 | 7543.29 | 890.38 | 652.74 | 1216.19 | 1679592.72 | 14554343.28 | 40°04'32.652"N | 104°51'35.842"W | 1.36 | |
| 9070.00 | 91.790 | 359.970 | 7541.59 | 981.16 | 745.71 | 1215.31 | 1679591.70 | 14554436.22 | 40°04'33.571"N | 104°51'35.853"W | 1.93 | |
| 9165.00 | 88.310 | 359.210 | 7541.50 | 1073.95 | 840.70 | 1214.63 | 1679590.88 | 14554531.16 | 40°04'34.510"N | 104°51'35.862"W | 3.75 | |
| 9258.00 | 89.230 | 359.320 | 7543.50 | 1164.65 | 933.67 | 1213.44 | 1679589.55 | 14554624.09 | 40°04'35.428"N | 104°51'35.877"W | 1.00 | |
| 9352.00 | 90.710 | 359.400 | 7543.55 | 1256.39 | 1027.66 | 1212.39 | 1679588.35 | 14554718.04 | 40°04'36.357"N | 104°51'35.891"W | 1.58 | |
| 9446.00 | 90.340 | 0.740 | 7542.69 | 1348.37 | 1121.65 | 1212.50 | 1679588.33 | 14554812.00 | 40°04'37.286"N | 104°51'35.889"W | 1.48 | |
| 9540.00 | 92.370 | 359.820 | 7540.47 | 1440.40 | 1215.62 | 1212.96 | 1679588.64 | 14554905.93 | 40°04'38.215"N | 104°51'35.883"W | 2.37 | |
| 9634.00 | 88.890 | 358.780 | 7539.43 | 1532.10 | 1309.59 | 1211.81 | 1679587.35 | 14554999.86 | 40°04'39.143"N | 104°51'35.898"W | 3.86 | |
| 9728.00 | 89.040 | 358.360 | 7541.13 | 1623.53 | 1403.55 | 1209.47 | 1679584.86 | 14555093.77 | 40°04'40.072"N | 104°51'35.928"W | 0.47 | |
| 9822.00 | 90.090 | 358.100 | 7541.84 | 1714.85 | 1497.50 | 1206.57 | 1679581.82 | 14555187.68 | 40°04'41.000"N | 104°51'35.965"W | 1.15 | |
| 9916.00 | 91.790 | 357.770 | 7540.30 | 1806.03 | 1591.42 | 1203.18 | 1679578.29 | 14555281.56 | 40°04'41.928"N | 104°51'36.009"W | 1.84 | |
| 10010.00 | 90.220 | 356.780 | 7538.65 | 1896.95 | 1685.29 | 1198.71 | 1679573.68 | 14555375.39 | 40°04'42.856"N | 104°51'36.066"W | 1.97 | |
| 10103.00 | 90.030 | 359.920 | 7538.45 | 1987.33 | 1778.24 | 1196.03 | 1679570.86 | 14555468.30 | 40°04'43.775"N | 104°51'36.101"W | 3.38 | |
| 10197.00 | 92.160 | 359.970 | 7536.65 | 2079.25 | 1872.22 | 1195.94 | 1679570.63 | 14555562.24 | 40°04'44.703"N | 104°51'36.102"W | 2.27 | |
| 10291.00 | 88.520 | 359.710 | 7536.10 | 2171.14 | 1966.20 | 1195.68 | 1679570.22 | 14555656.19 | 40°04'45.632"N | 104°51'36.105"W | 3.88 | |
| 10384.00 | 88.890 | 2.990 | 7538.20 | 2262.52 | 2059.14 | 1197.87 | 1679572.27 | 14555749.09 | 40°04'46.551"N | 104°51'36.077"W | 3.55 | |
| 10478.00 | 89.690 | 2.690 | 7539.36 | 2355.33 | 2153.02 | 1202.53 | 1679576.78 | 14555842.94 | 40°04'47.478"N | 104°51'36.017"W | 0.91 | |
| 10572.00 | 91.200 | 2.470 | 7538.63 | 2448.07 | 2246.92 | 1206.76 | 1679580.87 | 14555936.80 | 40°04'48.406"N | 104°51'35.962"W | 1.62 | |
| 10666.00 | 88.430 | 1.460 | 7538.94 | 2540.64 | 2340.85 | 1209.98 | 1679583.95 | 14556030.70 | 40°04'49.334"N | 104°51'35.921"W | 3.14 | |
| 10761.00 | 90.030 | 2.410 | 7540.21 | 2634.18 | 2435.78 | 1213.19 | 1679587.01 | 14556125.60 | 40°04'50.273"N | 104°51'35.880"W | 1.96 | |
| 10855.00 | 91.940 | 1.750 | 7538.60 | 2726.77 | 2529.70 | 1216.60 | 1679590.28 | 14556219.49 | 40°04'51.201"N | 104°51'35.836"W | 2.15 | |
| 10948.00 | 90.180 | 0.340 | 7536.88 | 2818.07 | 2622.67 | 1218.30 | 1679591.83 | 14556312.42 | 40°04'52.119"N | 104°51'35.814"W | 2.42 | |
| 11043.00 | 91.570 | 359.960 | 7535.43 | 2911.05 | 2717.65 | 1218.55 | 1679591.93 | 14556407.37 | 40°04'53.058"N | 104°51'35.811"W | 1.52 | |
| 11137.00 | 88.580 | 358.890 | 7535.30 | 3002.80 | 2811.63 | 1217.60 | 1679590.85 | 14556501.31 | 40°04'53.987"N | 104°51'35.823"W | 3.38 | |
| 11231.00 | 90.400 | 359.840 | 7536.14 | 3094.53 | 2905.62 | 1216.56 | 1679589.66 | 14556595.26 | 40°04'54.916"N | 104°51'35.836"W | 2.18 | |
| 11325.00 | 86.800 | 358.990 | 7538.44 | 3186.25 | 2999.57 | 1215.60 | 1679588.56 | 14556689.17 | 40°04'55.844"N | 104°51'35.848"W | 3.93 | |
| 11419.00 | 87.200 | 359.110 | 7543.36 | 3277.75 | 3093.43 | 1214.05 | 1679586.86 | 14556782.99 | 40°04'56.772"N | 104°51'35.868"W | 0.44 | |
| 11514.00 | 88.370 | 359.160 | 7547.03 | 3370.31 | 3188.35 | 1212.61 | 1679585.28 | 14556877.86 | 40°04'57.710"N | 104°51'35.887"W | 1.23 | |
| 11608.00 | 89.320 | 358.960 | 7548.92 | 3461.93 | 3282.31 | 1211.07 | 1679583.60 | 14556971.79 | 40°04'58.638"N | 104°51'35.906"W | 1.03 | |
| 11702.00 | 90.770 | 358.670 | 7548.85 | 3553.47 | 3376.29 | 1209.13 | 1679581.51 | 14557065.73 | 40°04'59.567"N | 104°51'35.931"W | 1.57 | |
| 11796.00 | 89.510 | 359.380 | 7548.62 | 3645.08 | 3470.27 | 1207.53 | 1679579.77 | 14557159.67 | 40°05'00.496"N | 104°51'35.952"W | 1.54 | |
| 11889.00 | 90.990 | 359.110 | 7548.21 | 3735.80 | 3563.26 | 1206.30 | 1679578.40 | 14557252.62 | 40°05'01.415"N | 104°51'35.967"W | 1.62 | |
| 11984.00 | 88.950 | 0.010 | 7548.26 | 3828.58 | 3658.25 | 1205.57 | 1679577.53 | 14557347.57 | 40°05'02.353"N | 104°51'35.977"W | 2.35 | |
| 12077.00 | 90.520 | 0.150 | 7548.69 | 3919.59 | 3751.25 | 1205.70 | 1679577.52 | 14557440.53 | 40°05'03.272"N | 104°51'35.975"W | 1.69 | |
| 12171.00 | 88.670 | 358.370 | 7549.36 | 4011.29 | 3845.23 | 1204.49 | 1679576.16 | 14557534.47 | 40°05'04.201"N | 104°51'35.991"W | 2.73 | |
| 12266.00 | 89.540 | 357.660 | 7550.84 | 4103.48 | 3940.16 | 1201.20 | 1679572.73 | 14557629.36 | 40°05'05.139"N | 104°51'36.033"W | 1.18 | |

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|--------------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02) |
| Area | COLORADO | Well | CAMENISCH 3N-35HZ |
| Field | WELD COUNTY (UTM/TRUE NORTH) | Wellbore | CAMENISCH 3N-35HZ AWB |
| Facility | SEC.02-T1N-R67W | | |

WELLPATH DATA (154 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | DLS ["/(100ft)] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|----------------|-----------------|-----------------|---|
| 12360.00 | 91.290 | 358.010 | 7550.16 | 4194.64 | 4034.09 | 1197.65 | 1679569.04 | 14557723.24 | 40°05'06.067"N | 104°51'36.079"W | 1.90 | |
| 12454.00 | 88.580 | 356.080 | 7550.27 | 4285.46 | 4127.95 | 1192.80 | 1679564.05 | 14557817.06 | 40°05'06.995"N | 104°51'36.141"W | 3.54 | |
| 12549.00 | 87.110 | 358.280 | 7553.84 | 4377.25 | 4222.76 | 1188.13 | 1679559.24 | 14557911.82 | 40°05'07.932"N | 104°51'36.201"W | 2.78 | |
| 12642.00 | 87.530 | 358.820 | 7558.19 | 4467.62 | 4315.63 | 1185.78 | 1679556.75 | 14558004.65 | 40°05'08.850"N | 104°51'36.231"W | 0.74 | |
| 12736.00 | 90.000 | 359.880 | 7560.21 | 4559.33 | 4409.59 | 1184.71 | 1679555.54 | 14558098.57 | 40°05'09.778"N | 104°51'36.245"W | 2.86 | |
| 12830.00 | 91.850 | 359.950 | 7558.70 | 4651.24 | 4503.57 | 1184.58 | 1679555.25 | 14558192.52 | 40°05'10.707"N | 104°51'36.246"W | 1.97 | |
| 12923.00 | 91.420 | 1.010 | 7556.04 | 4742.35 | 4596.53 | 1185.35 | 1679555.89 | 14558285.44 | 40°05'11.625"N | 104°51'36.236"W | 1.23 | |
| 13017.00 | 89.600 | 0.120 | 7555.21 | 4834.49 | 4690.52 | 1186.28 | 1679556.67 | 14558379.39 | 40°05'12.554"N | 104°51'36.224"W | 2.16 | |
| 13110.00 | 91.050 | 0.720 | 7554.68 | 4925.61 | 4783.51 | 1186.96 | 1679557.21 | 14558472.35 | 40°05'13.473"N | 104°51'36.216"W | 1.69 | |
| 13205.00 | 89.200 | 1.960 | 7554.47 | 5018.98 | 4878.48 | 1189.18 | 1679559.29 | 14558567.28 | 40°05'14.412"N | 104°51'36.187"W | 2.34 | |
| 13299.00 | 90.650 | 2.250 | 7554.59 | 5111.59 | 4972.41 | 1192.64 | 1679562.60 | 14558661.18 | 40°05'15.340"N | 104°51'36.142"W | 1.57 | |
| 13393.00 | 92.180 | 1.930 | 7552.27 | 5204.18 | 5066.32 | 1196.06 | 1679565.88 | 14558755.06 | 40°05'16.268"N | 104°51'36.098"W | 1.66 | |
| 13487.00 | 92.740 | 0.470 | 7548.24 | 5296.44 | 5160.21 | 1198.03 | 1679567.70 | 14558848.91 | 40°05'17.196"N | 104°51'36.073"W | 1.66 | |
| 13581.00 | 89.290 | 359.290 | 7546.57 | 5388.33 | 5254.18 | 1197.83 | 1679567.36 | 14558942.84 | 40°05'18.124"N | 104°51'36.075"W | 3.88 | |
| 13675.00 | 86.180 | 0.920 | 7550.29 | 5480.24 | 5348.09 | 1198.00 | 1679567.39 | 14559036.72 | 40°05'19.053"N | 104°51'36.073"W | 3.73 | |
| 13769.00 | 86.920 | 1.120 | 7555.94 | 5572.37 | 5441.90 | 1199.67 | 1679568.92 | 14559130.50 | 40°05'19.980"N | 104°51'36.052"W | 0.82 | |
| 13863.00 | 88.430 | 1.010 | 7559.76 | 5664.60 | 5535.81 | 1201.42 | 1679570.52 | 14559224.36 | 40°05'20.908"N | 104°51'36.029"W | 1.61 | |
| 13962.00 | 90.550 | 0.950 | 7560.64 | 5761.78 | 5634.78 | 1203.11 | 1679572.06 | 14559323.30 | 40°05'21.886"N | 104°51'36.007"W | 2.14 | LAST BHI MWD+IFR1+SC SURVEY |
| 14017.00 | 90.550 | 0.950 | 7560.11 | 5815.77 | 5689.77 | 1204.02 | 1679572.89 | 14559378.27 | 40°05'22.429"N | 104°51'35.995"W | 0.00 | PTB (748'FSL & 2147'FWL,SEC.35) 40.0895636 -104.8599987 |

WELLPATH COMPOSITION - Ref Wellbore: CAMENISCH 3N-35HZ AWB Ref Wellpath: CAMENISCH 3N-35HZ AWP

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|---|--|-----------------------|
| 32.00 | 1836.00 | Custom APC ISCWSA REV 2 MWD+IFR1 (approximation) | SDI Custom APC ISCWSA Rev-2 MWD+IFR1 <160 - 1836> | CAMENISCH 3N-35HZ AWB |
| 1836.00 | 13962.00 | Custom APC ISCWSA REV 2 MWD+IFR1+SC (approximation) | BHI Custom APC ISCWSA Rev-2 MWD+IFR1+SC <1928 - 13962> | CAMENISCH 3N-35HZ AWB |
| 13962.00 | 14017.00 | Blind Drilling (std) | Projection to bit | CAMENISCH 3N-35HZ AWB |

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|--------------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot | SLOT#10 CAMENISCH 3N-35HZ (424'FSL & 869'FWL,SEC.02) |
| Area | COLORADO | Well | CAMENISCH 3N-35HZ |
| Field | WELD COUNTY (UTM/TRUE NORTH) | Wellbore | CAMENISCH 3N-35HZ AWB |
| Facility | SEC.02-T1N-R67W | | |

| WELLPATH COMMENTS | | | | |
|-------------------|--------------------|----------------|-------------|---|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
| 160.00 | 0.310 | 236.580 | 160.00 | FIRST SDI MWD+IFR1 SURVEY |
| 1836.00 | 20.630 | 128.770 | 1794.25 | LAST SDI MWD+IFR1 SURVEY |
| 1928.00 | 20.660 | 128.650 | 1880.34 | FIRST BHI MWD+IFR1+SC SURVEY |
| 4774.00 | 15.604 | 126.577 | 4619.53 | ENTERED LANDBOX (244'FNL & 1769'FWL,SEC.11) 40.0721088 -104.8610851 |
| 7020.00 | 1.087 | 10.962 | 6819.60 | KOP |
| 8133.00 | 87.290 | 2.080 | 7545.07 | LANDING (234'FSL & 2107'FWL,SEC.02) 40.0734224 -104.8598783 |
| 13962.00 | 90.550 | 0.950 | 7560.64 | LAST BHI MWD+IFR1+SC SURVEY |
| 14017.00 | 90.550 | 0.950 | 7560.11 | PTB (748'FSL & 2147'FWL,SEC.35) 40.0895636 -104.8599987 |