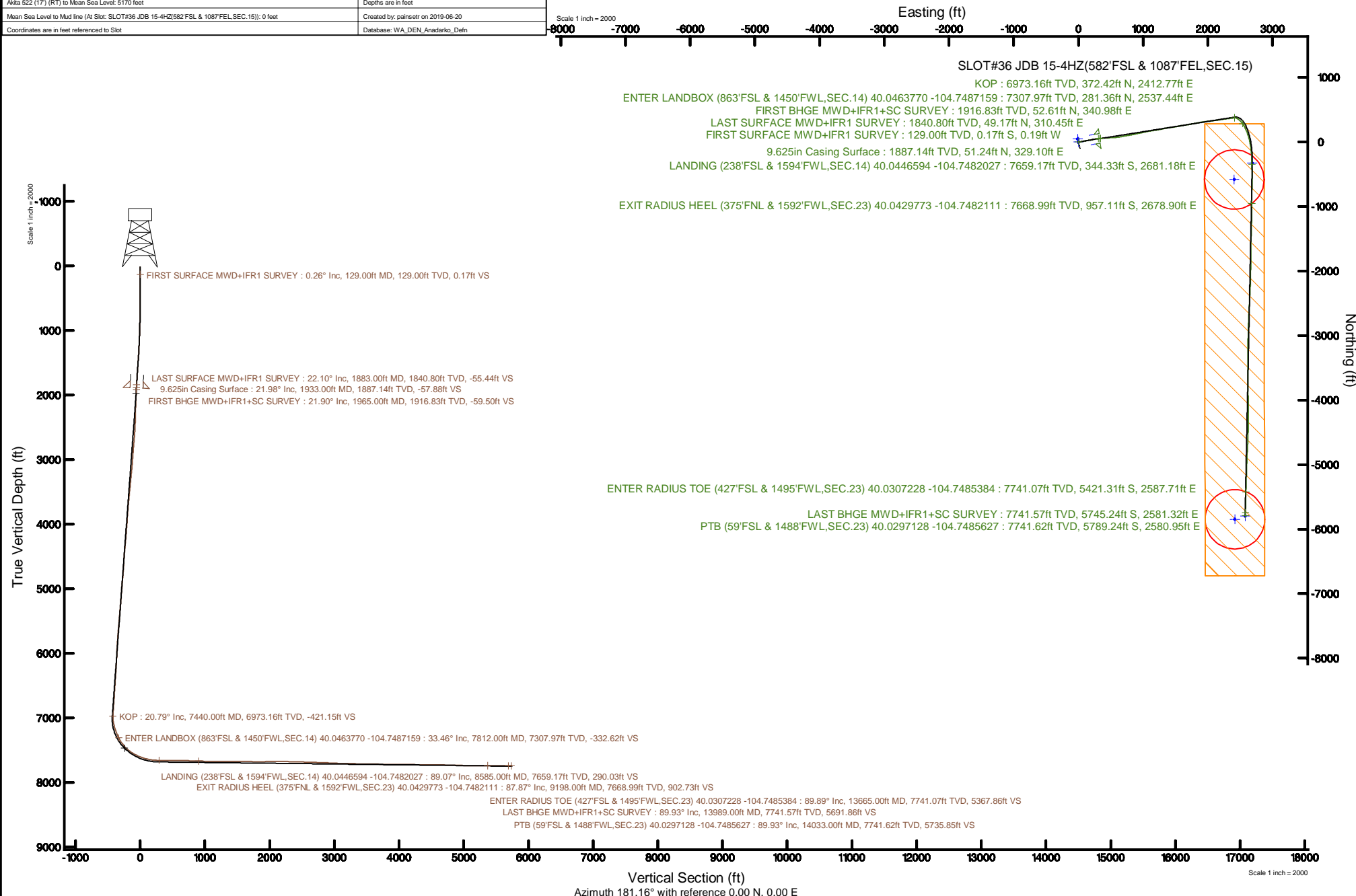


# KERR-MCGEE OIL & GAS ONSHORE LP (WA)

Location: COLORADO Slot: SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15)  
 Field: WELD COUNTY (UTM/TRUE NORTH) Well: JDB 15-4HZ  
 Facility: SEC.15-T1N-R66W Wellbore: JDB 15-4HZ PWB

|   |   |
|---|---|
| Plot reference wellpath is JDB 15-4HZ PWP Rev-A.0   | Grid System: NAD83 / UTM Zone 13 North, US feet |
| True vertical depths are referenced to Akita 522 (17) (RT)                                  | North Reference: True north                     |
| Measured depths are referenced to Akita 522 (17) (RT)                                       | Scale: True distance                            |
| Akita 522 (17) (RT) to Mean Sea Level: 5170 feet  | Depths are in feet                              |
| Mean Sea Level to Mud line (At Slot: SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15)): 0 feet | Created by: painsetr on 2019-06-20              |
| Coordinates are in feet referenced to Slot  | Database: WA_DEN, Anadarko, Defn                |



| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWB                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| REPORT SETUP INFORMATION |                                    |                      |   |
|--------------------------|------------------------------------|----------------------|---|
| Projection System        | NAD83 / UTM Zone 13 North, US feet | Software System      | WellArchitect® 5.1                      |
| North Reference          | True                               | User                 | Painsetr                                |
| Scale                    | 0.999605                           | Report Generated     | 6/20/2019 at 1:43:40 PM                 |
| Convergence at slot      | 0.16° East                         | Database/Source file | WA_DEN_Anadarko_Defn/JDB_15-4HZ_AWP.xml |

| WELLPATH LOCATION     |                   |          |                  |                 |                        |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | -687.14           | 2763.19  | 1708205.77       | 14543432.36     | 40°02'44.178"N         | 104°45'28.004"W |
| Facility Reference Pt |                   |          | 1705441.90       | 14544112.02     | 40°02'50.970"N         | 104°46'03.534"W |
| Field Reference Pt    |                   |          | 1698235.31       | 14552047.82     | 40°04'09.600"N         | 104°47'36.000"W |

| WELLPATH DATUM           |                      |   |                   |
|--------------------------|----------------------|---|-------------------|
| Calculation method       | Minimum curvature    | Akita 522 (17') (RT) to Facility Vertical Datum   | 5170.00ft         |
| Horizontal Reference Pt  | Slot                 | Akita 522 (17') (RT) to Mean Sea Level  | 5170.00ft         |
| Vertical Reference Pt    | Akita 522 (17') (RT) | Akita 522 (17') (RT) to Mud Line at Slot (SLOT#36 JDB 15-4HZ (582'FSL & 1087'FEL,SEC.15)) | 5170.00ft         |
| MD Reference Pt          | Akita 522 (17') (RT) | Section Origin  | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level       | Section Azimuth   | 181.16°           |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWB                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| WELLPATH DATA (163 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |                               |
|--|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------------------------|
| MD<br>[ft]   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments                      |
| 0.00†  | 0.000              | 227.810        | 0.00        | 0.00              | 0.00          | 0.00         | 1708205.77           | 14543432.36           | 40°02'44.178"N | 104°45'28.004"W | 0.00             |                               |
| 17.00  | 0.000              | 227.810        | 17.00       | 0.00              | 0.00          | 0.00         | 1708205.77           | 14543432.36           | 40°02'44.178"N | 104°45'28.004"W | 0.00             |                               |
| 129.00   | 0.260              | 227.810        | 129.00      | 0.17              | -0.17         | -0.19        | 1708205.59           | 14543432.19           | 40°02'44.176"N | 104°45'28.007"W | 0.23             | FIRST SURFACE MWD+IFR1 SURVEY |
| 224.00   | 0.400              | 234.760        | 224.00      | 0.52              | -0.51         | -0.62        | 1708205.16           | 14543431.85           | 40°02'44.173"N | 104°45'28.012"W | 0.15             |                               |
| 320.00   | 0.400              | 235.020        | 320.00      | 0.92              | -0.89         | -1.17        | 1708204.61           | 14543431.46           | 40°02'44.169"N | 104°45'28.019"W | 0.00             |                               |
| 415.00   | 1.270              | 106.440        | 414.99      | 1.39              | -1.38         | -0.43        | 1708205.35           | 14543430.98           | 40°02'44.164"N | 104°45'28.010"W | 1.63             |                               |
| 511.00   | 3.380              | 95.540         | 510.90      | 1.89              | -1.95         | 3.41         | 1708209.19           | 14543430.41           | 40°02'44.159"N | 104°45'27.961"W | 2.24             |                               |
| 606.00   | 5.630              | 82.880         | 605.61      | 1.43              | -1.65         | 10.82        | 1708216.59           | 14543430.74           | 40°02'44.162"N | 104°45'27.865"W | 2.58             |                               |
| 701.00   | 6.280              | 84.730         | 700.09      | 0.18              | -0.59         | 20.62        | 1708226.39           | 14543431.82           | 40°02'44.172"N | 104°45'27.739"W | 0.71             |                               |
| 795.00   | 8.350              | 79.890         | 793.32      | -1.73             | 1.08          | 32.46        | 1708238.22           | 14543433.52           | 40°02'44.189"N | 104°45'27.587"W | 2.30             |                               |
| 890.00   | 8.790              | 80.510         | 887.26      | -4.42             | 3.49          | 46.41        | 1708252.16           | 14543435.97           | 40°02'44.212"N | 104°45'27.408"W | 0.47             |                               |
| 986.00   | 10.200             | 80.250         | 981.95      | -7.39             | 6.13          | 62.02        | 1708267.75           | 14543438.66           | 40°02'44.239"N | 104°45'27.207"W | 1.47             |                               |
| 1081.00  | 10.900             | 79.630         | 1075.34     | -10.77            | 9.18          | 79.15        | 1708284.86           | 14543441.74           | 40°02'44.269"N | 104°45'26.987"W | 0.75             |                               |
| 1176.00  | 12.260             | 80.070         | 1168.40     | -14.51            | 12.53         | 97.92        | 1708303.62           | 14543445.15           | 40°02'44.302"N | 104°45'26.745"W | 1.43             |                               |
| 1270.00  | 13.450             | 79.980         | 1260.05     | -18.55            | 16.16         | 118.52       | 1708324.20           | 14543448.83           | 40°02'44.338"N | 104°45'26.480"W | 1.27             |                               |
| 1366.00  | 15.910             | 79.190         | 1352.91     | -23.44            | 20.57         | 142.44       | 1708348.10           | 14543453.30           | 40°02'44.381"N | 104°45'26.173"W | 2.57             |                               |
| 1461.00  | 18.500             | 79.280         | 1443.65     | -29.25            | 25.81         | 170.04       | 1708375.68           | 14543458.62           | 40°02'44.433"N | 104°45'25.818"W | 2.73             |                               |
| 1556.00  | 18.940             | 78.750         | 1533.62     | -35.66            | 31.62         | 199.97       | 1708405.58           | 14543464.51           | 40°02'44.491"N | 104°45'25.433"W | 0.50             |                               |
| 1650.00  | 18.590             | 79.020         | 1622.62     | -42.09            | 37.45         | 229.64       | 1708435.22           | 14543470.42           | 40°02'44.548"N | 104°45'25.052"W | 0.38             |                               |
| 1745.00  | 20.210             | 81.740         | 1712.23     | -47.96            | 42.70         | 260.75       | 1708466.30           | 14543475.75           | 40°02'44.600"N | 104°45'24.652"W | 1.95             |                               |
| 1840.00  | 21.800             | 82.710         | 1800.91     | -53.24            | 47.29         | 294.49       | 1708500.02           | 14543480.43           | 40°02'44.645"N | 104°45'24.218"W | 1.71             |                               |
| 1883.00  | 22.100             | 83.850         | 1840.80     | -55.44            | 49.17         | 310.45       | 1708515.97           | 14543482.35           | 40°02'44.664"N | 104°45'24.013"W | 1.21             | LAST SURFACE MWD+IFR1 SURVEY  |
| 1965.00  | 21.900             | 83.290         | 1916.83     | -59.50            | 52.61         | 340.98       | 1708546.47           | 14543485.87           | 40°02'44.698"N | 104°45'23.620"W | 0.35             | FIRST BHGE MWD+IFR1+SC SURVEY |
| 2139.00  | 23.830             | 86.360         | 2077.15     | -66.88            | 58.64         | 408.29       | 1708613.74           | 14543492.08           | 40°02'44.757"N | 104°45'22.754"W | 1.30             |                               |
| 2226.00  | 23.130             | 87.210         | 2156.95     | -69.53            | 60.58         | 442.90       | 1708648.33           | 14543494.12           | 40°02'44.777"N | 104°45'22.309"W | 0.89             |                               |
| 2313.00  | 22.430             | 86.720         | 2237.16     | -71.99            | 62.36         | 476.54       | 1708681.95           | 14543495.99           | 40°02'44.794"N | 104°45'21.877"W | 0.83             |                               |
| 2401.00  | 21.200             | 86.390         | 2318.86     | -74.61            | 64.33         | 509.18       | 1708714.58           | 14543498.04           | 40°02'44.814"N | 104°45'21.457"W | 1.40             |                               |
| 2488.00  | 22.180             | 88.290         | 2399.70     | -76.74            | 65.81         | 541.30       | 1708746.67           | 14543499.61           | 40°02'44.828"N | 104°45'21.044"W | 1.39             |                               |
| 2576.00  | 23.660             | 83.860         | 2480.75     | -79.82            | 68.19         | 575.46       | 1708780.82           | 14543502.09           | 40°02'44.852"N | 104°45'20.605"W | 2.58             |                               |
| 2664.00  | 21.560             | 84.000         | 2561.99     | -84.08            | 71.77         | 609.10       | 1708814.43           | 14543505.76           | 40°02'44.887"N | 104°45'20.172"W | 2.39             |                               |
| 2751.00  | 21.970             | 77.790         | 2642.80     | -89.83            | 76.89         | 640.91       | 1708846.22           | 14543510.95           | 40°02'44.938"N | 104°45'19.763"W | 2.69             |                               |
| 2839.00  | 22.460             | 78.040         | 2724.26     | -97.45            | 83.85         | 673.44       | 1708878.72           | 14543518.00           | 40°02'45.007"N | 104°45'19.345"W | 0.57             |                               |
| 2926.00  | 23.360             | 81.750         | 2804.40     | -104.05           | 89.77         | 706.77       | 1708912.02           | 14543524.01           | 40°02'45.065"N | 104°45'18.917"W | 1.96             |                               |
| 3014.00  | 21.210             | 80.320         | 2885.83     | -109.89           | 94.95         | 739.73       | 1708944.95           | 14543529.28           | 40°02'45.116"N | 104°45'18.493"W | 2.52             |                               |
| 3101.00  | 22.020             | 80.430         | 2966.71     | -115.89           | 100.31        | 771.33       | 1708976.52           | 14543534.72           | 40°02'45.169"N | 104°45'18.086"W | 0.93             |                               |
| 3189.00  | 22.800             | 81.120         | 3048.06     | -121.93           | 105.68        | 804.45       | 1709009.61           | 14543540.18           | 40°02'45.222"N | 104°45'17.661"W | 0.94             |                               |
| 3276.00  | 23.760             | 78.400         | 3127.98     | -128.74           | 111.81        | 838.27       | 1709043.40           | 14543546.40           | 40°02'45.283"N | 104°45'17.226"W | 1.66             |                               |
| 3363.00  | 21.480             | 76.370         | 3208.28     | -136.68           | 119.09        | 870.92       | 1709076.02           | 14543553.77           | 40°02'45.355"N | 104°45'16.806"W | 2.77             |                               |
| 3450.00  | 22.690             | 77.460         | 3288.90     | -144.72           | 126.49        | 902.78       | 1709107.85           | 14543561.25           | 40°02'45.428"N | 104°45'16.396"W | 1.47             |                               |
| 3538.00  | 24.420             | 79.710         | 3369.57     | -152.35           | 133.42        | 937.25       | 1709142.29           | 14543568.27           | 40°02'45.496"N | 104°45'15.953"W | 2.22             |                               |
| 3625.00  | 22.010             | 77.860         | 3449.52     | -159.67           | 140.06        | 970.89       | 1709175.90           | 14543575.00           | 40°02'45.562"N | 104°45'15.520"W | 2.89             |                               |
| 3713.00  | 23.290             | 77.060         | 3530.73     | -167.70           | 147.43        | 1003.97      | 1709208.94           | 14543582.45           | 40°02'45.635"N | 104°45'15.095"W | 1.50             |                               |
| 3801.00  | 24.430             | 78.720         | 3611.21     | -175.86           | 154.88        | 1038.77      | 1709243.71           | 14543590.00           | 40°02'45.708"N | 104°45'14.648"W | 1.50             |                               |
| 3888.00  | 22.830             | 77.460         | 3690.91     | -183.73           | 162.07        | 1072.89      | 1709277.80           | 14543597.28           | 40°02'45.779"N | 104°45'14.209"W | 1.93             |                               |
| 3975.00  | 23.860             | 82.400         | 3770.79     | -190.41           | 168.06        | 1106.81      | 1709311.69           | 14543603.36           | 40°02'45.839"N | 104°45'13.773"W | 2.54             |                               |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWP                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| WELLPATH DATA (163 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                  |   |
|--|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|---|
| MD<br>(ft)   | Inclination<br>(°) | Azimuth<br>(°) | TVD<br>(ft) | Vert Sect<br>(ft) | North<br>(ft) | East<br>(ft) | Grid East<br>(US ft) | Grid North<br>(US ft) | Latitude       | Longitude       | DLS<br>(°/100ft) | Comments  |
| 4062.00  | 21.640             | 82.180         | 3851.02     | -195.60           | 172.57        | 1140.15      | 1709345.00           | 14543607.96           | 40°02'45.883"N | 104°45'13.344"W | 2.55             |   |
| 4150.00  | 22.220             | 81.630         | 3932.65     | -200.88           | 177.20        | 1172.69      | 1709377.51           | 14543612.67           | 40°02'45.929"N | 104°45'12.926"W | 0.70             |   |
| 4237.00  | 23.470             | 80.420         | 4012.83     | -206.83           | 182.48        | 1206.05      | 1709410.84           | 14543618.04           | 40°02'45.981"N | 104°45'12.497"W | 1.53             |   |
| 4325.00  | 20.740             | 79.090         | 4094.35     | -213.36           | 188.34        | 1238.63      | 1709443.40           | 14543623.99           | 40°02'46.039"N | 104°45'12.078"W | 3.15             |   |
| 4413.00  | 22.140             | 79.020         | 4176.26     | -220.10           | 194.45        | 1270.21      | 1709474.95           | 14543630.18           | 40°02'46.099"N | 104°45'11.672"W | 1.59             |   |
| 4500.00  | 23.060             | 79.090         | 4256.58     | -227.11           | 200.80        | 1303.04      | 1709507.75           | 14543636.62           | 40°02'46.162"N | 104°45'11.250"W | 1.06             |   |
| 4588.00  | 21.390             | 77.960         | 4338.04     | -234.38           | 207.41        | 1335.66      | 1709540.34           | 14543643.31           | 40°02'46.227"N | 104°45'10.830"W | 1.96             |   |
| 4675.00  | 22.980             | 80.620         | 4418.60     | -241.11           | 213.49        | 1367.93      | 1709572.58           | 14543649.48           | 40°02'46.287"N | 104°45'10.415"W | 2.16             |   |
| 4763.00  | 24.360             | 82.210         | 4499.19     | -247.08           | 218.75        | 1402.87      | 1709607.48           | 14543654.83           | 40°02'46.339"N | 104°45'09.966"W | 1.73             |   |
| 4850.00  | 23.190             | 81.230         | 4578.81     | -252.82           | 223.79        | 1437.57      | 1709642.16           | 14543659.97           | 40°02'46.389"N | 104°45'09.520"W | 1.42             |   |
| 4938.00  | 21.470             | 81.410         | 4660.21     | -258.54           | 228.84        | 1470.62      | 1709675.19           | 14543665.10           | 40°02'46.439"N | 104°45'09.095"W | 1.96             |   |
| 5050.00  | 21.770             | 80.930         | 4764.33     | -265.70           | 235.17        | 1511.40      | 1709715.93           | 14543671.55           | 40°02'46.502"N | 104°45'08.570"W | 0.31             |   |
| 5138.00  | 23.180             | 80.650         | 4845.64     | -271.75           | 240.56        | 1544.61      | 1709749.11           | 14543677.02           | 40°02'46.555"N | 104°45'08.143"W | 1.61             |   |
| 5225.00  | 21.960             | 79.650         | 4925.98     | -278.12           | 246.26        | 1577.51      | 1709781.98           | 14543682.81           | 40°02'46.611"N | 104°45'07.720"W | 1.47             |   |
| 5312.00  | 23.430             | 80.020         | 5006.24     | -284.71           | 252.18        | 1610.54      | 1709814.99           | 14543688.82           | 40°02'46.670"N | 104°45'07.295"W | 1.70             |   |
| 5400.00  | 22.250             | 80.350         | 5087.34     | -291.21           | 258.01        | 1644.20      | 1709848.62           | 14543694.73           | 40°02'46.727"N | 104°45'06.863"W | 1.35             |   |
| 5487.00  | 24.410             | 80.140         | 5167.22     | -297.74           | 263.85        | 1678.16      | 1709882.54           | 14543700.66           | 40°02'46.785"N | 104°45'06.426"W | 2.48             |   |
| 5575.00  | 22.010             | 80.700         | 5248.09     | -304.21           | 269.63        | 1712.35      | 1709916.70           | 14543706.53           | 40°02'46.842"N | 104°45'05.986"W | 2.74             |   |
| 5662.00  | 23.910             | 79.780         | 5328.20     | -310.65           | 275.39        | 1745.79      | 1709950.12           | 14543712.39           | 40°02'46.899"N | 104°45'05.556"W | 2.22             |   |
| 5750.00  | 21.510             | 79.840         | 5409.37     | -317.33           | 281.40        | 1779.23      | 1709983.52           | 14543718.49           | 40°02'46.958"N | 104°45'05.127"W | 2.73             |   |
| 5837.00  | 23.500             | 78.730         | 5489.74     | -324.20           | 287.61        | 1811.94      | 1710016.21           | 14543724.78           | 40°02'47.020"N | 104°45'04.706"W | 2.34             |   |
| 5925.00  | 21.760             | 77.920         | 5570.96     | -331.71           | 294.45        | 1845.10      | 1710049.33           | 14543731.71           | 40°02'47.087"N | 104°45'04.279"W | 2.01             |   |
| 6012.00  | 23.590             | 80.750         | 5651.23     | -338.55           | 300.62        | 1878.05      | 1710082.26           | 14543737.97           | 40°02'47.148"N | 104°45'03.856"W | 2.45             |   |
| 6100.00  | 20.840             | 80.730         | 5732.69     | -344.57           | 305.98        | 1910.89      | 1710115.07           | 14543743.41           | 40°02'47.201"N | 104°45'03.434"W | 3.13             |   |
| 6187.00  | 22.130             | 80.250         | 5813.65     | -350.47           | 311.25        | 1942.31      | 1710146.46           | 14543748.76           | 40°02'47.253"N | 104°45'03.029"W | 1.50             |   |
| 6275.00  | 22.650             | 84.220         | 5895.02     | -355.65           | 315.76        | 1975.51      | 1710179.63           | 14543753.36           | 40°02'47.298"N | 104°45'02.603"W | 1.82             |   |
| 6363.00  | 19.660             | 84.230         | 5977.08     | -359.49           | 318.96        | 2007.10      | 1710211.21           | 14543756.64           | 40°02'47.329"N | 104°45'02.196"W | 3.40             |   |
| 6450.00  | 22.290             | 84.100         | 6058.31     | -363.28           | 322.12        | 2038.08      | 1710242.16           | 14543759.89           | 40°02'47.360"N | 104°45'01.798"W | 3.02             |   |
| 6537.00  | 22.850             | 82.930         | 6138.64     | -367.73           | 325.90        | 2071.26      | 1710275.32           | 14543763.76           | 40°02'47.398"N | 104°45'01.371"W | 0.83             |   |
| 6660.00  | 20.990             | 83.420         | 6252.75     | -374.11           | 331.36        | 2116.85      | 1710320.87           | 14543769.34           | 40°02'47.452"N | 104°45'00.785"W | 1.52             |   |
| 6747.00  | 21.300             | 78.810         | 6333.89     | -379.59           | 336.21        | 2147.83      | 1710351.83           | 14543774.28           | 40°02'47.500"N | 104°45'00.387"W | 1.94             |   |
| 6835.00  | 21.830             | 82.890         | 6415.74     | -385.36           | 341.34        | 2179.75      | 1710383.72           | 14543779.49           | 40°02'47.550"N | 104°44'59.976"W | 1.81             |   |
| 6922.00  | 23.330             | 81.830         | 6496.07     | -390.48           | 345.79        | 2212.85      | 1710416.80           | 14543784.03           | 40°02'47.594"N | 104°44'59.551"W | 1.79             |   |
| 7010.00  | 22.650             | 82.370         | 6577.08     | -395.89           | 350.52        | 2246.90      | 1710450.82           | 14543788.84           | 40°02'47.641"N | 104°44'59.113"W | 0.81             |   |
| 7098.00  | 23.730             | 82.330         | 6657.97     | -401.20           | 355.13        | 2281.24      | 1710485.13           | 14543793.55           | 40°02'47.686"N | 104°44'58.671"W | 1.23             |   |
| 7186.00  | 23.240             | 82.090         | 6738.68     | -406.66           | 359.88        | 2315.98      | 1710519.85           | 14543798.39           | 40°02'47.733"N | 104°44'58.225"W | 0.57             |   |
| 7274.00  | 22.430             | 82.500         | 6819.78     | -411.92           | 364.47        | 2349.83      | 1710553.67           | 14543803.07           | 40°02'47.779"N | 104°44'57.789"W | 0.94             |   |
| 7361.00  | 23.310             | 81.700         | 6899.94     | -417.25           | 369.12        | 2383.32      | 1710587.13           | 14543807.81           | 40°02'47.825"N | 104°44'57.359"W | 1.07             |   |
| 7440.00†   | 20.789             | 85.721         | 6973.16     | -421.15           | 372.42        | 2412.77      | 1710616.56           | 14543811.19           | 40°02'47.857"N | 104°44'56.980"W | 3.72             | KOP   |
| 7448.00  | 20.540             | 86.180         | 6980.64     | -421.40           | 372.62        | 2415.59      | 1710619.38           | 14543811.39           | 40°02'47.859"N | 104°44'56.944"W | 3.72             |   |
| 7536.00  | 23.060             | 115.580        | 7062.59     | -415.60           | 366.19        | 2446.63      | 1710650.43           | 14543805.05           | 40°02'47.796"N | 104°44'56.545"W | 12.60            |   |
| 7623.00  | 24.130             | 130.730        | 7142.39     | -397.21           | 347.21        | 2475.50      | 1710679.34           | 14543786.16           | 40°02'47.608"N | 104°44'56.173"W | 7.06             |   |
| 7710.00  | 28.180             | 134.110        | 7220.47     | -371.87           | 321.29        | 2503.74      | 1710707.64           | 14543760.33           | 40°02'47.352"N | 104°44'55.810"W | 4.96             |   |
| 7798.00  | 32.950             | 143.480        | 7296.26     | -338.73           | 287.56        | 2532.94      | 1710736.91           | 14543726.69           | 40°02'47.018"N | 104°44'55.435"W | 7.65             |   |
| 7812.00†   | 33.455             | 144.523        | 7307.97     | -332.62           | 281.36        | 2537.44      | 1710741.44           | 14543720.50           | 40°02'46.957"N | 104°44'55.377"W | 5.45             | ENTER LANDBOX (863'FSL & 1450'FWL,SEC.14) 40.0463770 -104.7487159 |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWP                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

## WELLPATH DATA (163 stations)

| MD<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | TVD<br>(ft) | Vert Sect<br>(ft) | North<br>(ft) | East<br>(ft) | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>(°/100ft) | Comments   |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|--|
| 7885.00    | 36.220             | 149.530        | 7367.90     | -298.10           | 246.37        | 2560.07      | 1710764.15           | 14543685.59           | 40°02'46.611"N | 104°44'55.086"W | 5.45             |  |
| 7973.00    | 42.980             | 155.250        | 7435.69     | -248.91           | 196.64        | 2585.85      | 1710790.05           | 14543635.95           | 40°02'46.120"N | 104°44'54.755"W | 8.72             |  |
| 8060.00    | 52.410             | 159.590        | 7494.19     | -190.03           | 137.26        | 2610.35      | 1710814.70           | 14543576.66           | 40°02'45.533"N | 104°44'54.440"W | 11.44            |  |
| 8148.00    | 59.610             | 164.860        | 7543.38     | -121.05           | 67.82         | 2632.46      | 1710836.99           | 14543507.31           | 40°02'44.847"N | 104°44'54.156"W | 9.57             |  |
| 8235.00    | 65.740             | 168.470        | 7583.31     | -46.26            | -7.35         | 2650.21      | 1710854.94           | 14543432.21           | 40°02'44.104"N | 104°44'53.928"W | 7.95             |  |
| 8323.00    | 70.640             | 171.640        | 7616.00     | 33.89             | -87.79        | 2664.27      | 1710869.22           | 14543351.84           | 40°02'43.309"N | 104°44'53.747"W | 6.49             |  |
| 8410.00    | 77.940             | 174.890        | 7639.55     | 116.78            | -170.90       | 2674.04      | 1710879.21           | 14543268.79           | 40°02'42.488"N | 104°44'53.621"W | 9.13             |  |
| 8498.00    | 83.630             | 178.120        | 7653.64     | 203.31            | -257.56       | 2679.32      | 1710884.72           | 14543182.19           | 40°02'41.631"N | 104°44'53.554"W | 7.41             |  |
| 8585.00    | 89.070             | 179.420        | 7659.17     | 290.03            | -344.33       | 2681.18      | 1710886.81           | 14543095.46           | 40°02'40.774"N | 104°44'53.530"W | 6.43             | LANDING (238'FSL & 1594'FWL,SEC.14) 40.0446594 -104.7482027          |
| 8673.00    | 89.410             | 179.150        | 7660.34     | 377.97            | -432.31       | 2682.27      | 1710888.15           | 14543007.51           | 40°02'39.904"N | 104°44'53.516"W | 0.49             |  |
| 8761.00    | 89.700             | 178.990        | 7661.02     | 465.91            | -520.30       | 2683.70      | 1710889.82           | 14542919.56           | 40°02'39.035"N | 104°44'53.498"W | 0.38             |  |
| 8848.00    | 90.380             | 179.680        | 7660.96     | 552.86            | -607.29       | 2684.71      | 1710891.06           | 14542832.61           | 40°02'38.175"N | 104°44'53.485"W | 1.11             |  |
| 8936.00    | 88.840             | 181.770        | 7661.56     | 640.85            | -695.28       | 2683.60      | 1710890.19           | 14542744.66           | 40°02'37.306"N | 104°44'53.499"W | 2.95             |  |
| 9023.00    | 88.580             | 181.420        | 7663.52     | 727.83            | -782.22       | 2681.18      | 1710888.00           | 14542657.74           | 40°02'36.446"N | 104°44'53.530"W | 0.50             |  |
| 9111.00    | 88.190             | 180.660        | 7666.00     | 815.79            | -870.17       | 2679.58      | 1710886.65           | 14542569.82           | 40°02'35.577"N | 104°44'53.551"W | 0.97             |  |
| 9198.00    | 87.870             | 180.240        | 7668.99     | 902.73            | -957.11       | 2678.90      | 1710886.20           | 14542482.91           | 40°02'34.718"N | 104°44'53.560"W | 0.61             | EXIT RADIUS HEEL (375'FNL & 1592'FWL,SEC.23) 40.0429773 -104.7482111 |
| 9285.00    | 89.330             | 180.680        | 7671.12     | 989.70            | -1044.08      | 2678.20      | 1710885.74           | 14542395.97           | 40°02'33.859"N | 104°44'53.569"W | 1.75             |  |
| 9373.00    | 89.080             | 179.930        | 7672.34     | 1077.68           | -1132.07      | 2677.73      | 1710885.51           | 14542308.02           | 40°02'32.989"N | 104°44'53.575"W | 0.90             |  |
| 9460.00    | 91.160             | 181.620        | 7672.16     | 1164.67           | -1219.06      | 2676.55      | 1710884.57           | 14542221.07           | 40°02'32.130"N | 104°44'53.590"W | 3.08             |  |
| 9548.00    | 89.610             | 182.200        | 7671.57     | 1252.66           | -1307.00      | 2673.62      | 1710881.88           | 14542133.15           | 40°02'31.260"N | 104°44'53.628"W | 1.88             |  |
| 9635.00    | 89.080             | 181.670        | 7672.56     | 1339.64           | -1393.95      | 2670.68      | 1710879.18           | 14542046.23           | 40°02'30.401"N | 104°44'53.666"W | 0.86             |  |
| 9722.00    | 88.870             | 181.210        | 7674.12     | 1426.63           | -1480.91      | 2668.50      | 1710877.23           | 14541959.30           | 40°02'29.542"N | 104°44'53.694"W | 0.58             |  |
| 9810.00    | 88.500             | 180.860        | 7676.14     | 1514.60           | -1568.87      | 2666.91      | 1710875.88           | 14541871.37           | 40°02'28.673"N | 104°44'53.715"W | 0.58             |  |
| 9897.00    | 90.020             | 180.990        | 7677.26     | 1601.59           | -1655.85      | 2665.50      | 1710874.71           | 14541784.42           | 40°02'27.813"N | 104°44'53.733"W | 1.75             |  |
| 9985.00    | 89.930             | 180.660        | 7677.30     | 1689.59           | -1743.84      | 2664.24      | 1710873.69           | 14541696.46           | 40°02'26.944"N | 104°44'53.750"W | 0.39             |  |
| 10072.00   | 89.440             | 179.920        | 7677.78     | 1776.58           | -1830.83      | 2663.80      | 1710873.48           | 14541609.50           | 40°02'26.084"N | 104°44'53.755"W | 1.02             |  |
| 10160.00   | 90.320             | 180.990        | 7677.96     | 1864.57           | -1918.83      | 2663.10      | 1710873.02           | 14541521.54           | 40°02'25.214"N | 104°44'53.764"W | 1.57             |  |
| 10247.00   | 90.580             | 180.680        | 7677.28     | 1951.57           | -2005.82      | 2661.83      | 1710871.99           | 14541434.58           | 40°02'24.355"N | 104°44'53.781"W | 0.47             |  |
| 10335.00   | 90.870             | 180.610        | 7676.16     | 2039.55           | -2093.80      | 2660.84      | 1710871.24           | 14541346.63           | 40°02'23.485"N | 104°44'53.794"W | 0.34             |  |
| 10422.00   | 89.960             | 182.190        | 7675.53     | 2126.55           | -2180.77      | 2658.71      | 1710869.35           | 14541259.69           | 40°02'22.626"N | 104°44'53.821"W | 2.10             |  |
| 10510.00   | 89.020             | 183.120        | 7676.32     | 2214.51           | -2268.67      | 2654.64      | 1710865.52           | 14541171.81           | 40°02'21.757"N | 104°44'53.874"W | 1.50             |  |
| 10597.00   | 89.180             | 182.670        | 7677.68     | 2301.46           | -2355.55      | 2650.25      | 1710861.36           | 14541084.96           | 40°02'20.898"N | 104°44'53.930"W | 0.55             |  |
| 10684.00   | 88.180             | 182.860        | 7679.69     | 2388.40           | -2442.42      | 2646.05      | 1710857.40           | 14540998.11           | 40°02'20.040"N | 104°44'53.984"W | 1.17             |  |
| 10772.00   | 88.380             | 182.720        | 7682.33     | 2476.33           | -2530.28      | 2641.77      | 1710853.36           | 14540910.27           | 40°02'19.172"N | 104°44'54.039"W | 0.28             |  |
| 10859.00   | 88.530             | 182.990        | 7684.67     | 2563.26           | -2617.14      | 2637.44      | 1710849.27           | 14540823.44           | 40°02'18.313"N | 104°44'54.095"W | 0.35             |  |
| 10947.00   | 87.780             | 182.560        | 7687.51     | 2651.18           | -2704.99      | 2633.18      | 1710845.25           | 14540735.61           | 40°02'17.445"N | 104°44'54.150"W | 0.98             |  |
| 11034.00   | 87.930             | 182.460        | 7690.76     | 2738.09           | -2791.85      | 2629.37      | 1710841.68           | 14540648.78           | 40°02'16.587"N | 104°44'54.199"W | 0.21             |  |
| 11122.00   | 87.930             | 181.950        | 7693.94     | 2826.02           | -2879.72      | 2625.99      | 1710838.54           | 14540560.93           | 40°02'15.718"N | 104°44'54.243"W | 0.58             |  |
| 11209.00   | 87.480             | 181.350        | 7697.43     | 2912.95           | -2966.62      | 2623.48      | 1710836.27           | 14540474.06           | 40°02'14.860"N | 104°44'54.275"W | 0.86             |  |
| 11296.00   | 87.420             | 180.680        | 7701.30     | 2999.86           | -3053.52      | 2621.94      | 1710834.97           | 14540387.19           | 40°02'14.001"N | 104°44'54.295"W | 0.77             |  |
| 11383.00   | 87.310             | 180.340        | 7705.30     | 3086.76           | -3140.42      | 2621.17      | 1710834.43           | 14540300.32           | 40°02'13.142"N | 104°44'54.305"W | 0.41             |  |
| 11471.00   | 89.100             | 180.110        | 7708.05     | 3174.70           | -3228.37      | 2620.83      | 1710834.33           | 14540212.40           | 40°02'12.273"N | 104°44'54.310"W | 2.05             |  |
| 11558.00   | 89.070             | 180.260        | 7709.44     | 3261.68           | -3315.36      | 2620.54      | 1710834.28           | 14540125.45           | 40°02'11.413"N | 104°44'54.313"W | 0.18             |  |
| 11646.00   | 88.760             | 180.480        | 7711.11     | 3349.65           | -3403.34      | 2619.98      | 1710833.95           | 14540037.50           | 40°02'10.544"N | 104°44'54.321"W | 0.43             |  |
| 11733.00   | 89.100             | 180.140        | 7712.73     | 3436.63           | -3490.33      | 2619.51      | 1710833.72           | 14539950.55           | 40°02'09.684"N | 104°44'54.327"W | 0.55             |  |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWP                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| WELLPATH DATA (163 stations) † = interpolated/extrapolated station |                    |                |             |                   |               |              |                      |                       |                |                 |                |  |
|--|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|----------------|--|
| MD<br>[ft]   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>°/100ft | Comments   |
| 11821.00   | 89.040             | 180.130        | 7714.16     | 3524.60           | -3578.32      | 2619.30      | 1710833.75           | 14539862.60           | 40°02'08.815"N | 104°44'54.330"W | 0.07           |  |
| 11908.00   | 88.930             | 179.730        | 7715.70     | 3611.57           | -3665.30      | 2619.40      | 1710834.10           | 14539775.64           | 40°02'07.955"N | 104°44'54.329"W | 0.48           |  |
| 11996.00   | 88.520             | 179.710        | 7717.66     | 3699.52           | -3753.28      | 2619.83      | 1710834.76           | 14539687.70           | 40°02'07.086"N | 104°44'54.323"W | 0.47           |  |
| 12083.00   | 89.560             | 178.960        | 7719.12     | 3786.46           | -3840.26      | 2620.84      | 1710836.01           | 14539600.76           | 40°02'06.226"N | 104°44'54.310"W | 1.47           |  |
| 12171.00   | 89.810             | 179.340        | 7719.60     | 3874.41           | -3928.25      | 2622.15      | 1710837.55           | 14539512.81           | 40°02'05.357"N | 104°44'54.294"W | 0.52           |  |
| 12258.00   | 89.870             | 179.140        | 7719.85     | 3961.36           | -4015.24      | 2623.30      | 1710838.94           | 14539425.86           | 40°02'04.497"N | 104°44'54.279"W | 0.24           |  |
| 12346.00   | 89.870             | 179.200        | 7720.05     | 4049.30           | -4103.23      | 2624.58      | 1710840.46           | 14539337.91           | 40°02'03.627"N | 104°44'54.263"W | 0.07           |  |
| 12433.00   | 88.640             | 180.450        | 7721.18     | 4136.27           | -4190.22      | 2624.84      | 1710840.96           | 14539250.95           | 40°02'02.768"N | 104°44'54.259"W | 2.02           |  |
| 12520.00   | 88.580             | 180.230        | 7723.29     | 4223.24           | -4277.19      | 2624.33      | 1710840.68           | 14539164.01           | 40°02'01.908"N | 104°44'54.266"W | 0.26           |  |
| 12607.00   | 88.500             | 180.500        | 7725.50     | 4310.20           | -4364.16      | 2623.77      | 1710840.36           | 14539077.08           | 40°02'01.049"N | 104°44'54.273"W | 0.32           |  |
| 12694.00   | 88.750             | 180.570        | 7727.59     | 4397.17           | -4451.13      | 2622.96      | 1710839.79           | 14538990.14           | 40°02'00.189"N | 104°44'54.284"W | 0.30           |  |
| 12782.00   | 89.590             | 181.690        | 7728.87     | 4485.16           | -4539.10      | 2621.23      | 1710838.29           | 14538902.20           | 40°01'59.320"N | 104°44'54.306"W | 1.59           |  |
| 12870.00   | 90.380             | 182.570        | 7728.89     | 4573.14           | -4627.04      | 2617.96      | 1710835.26           | 14538814.29           | 40°01'58.451"N | 104°44'54.348"W | 1.34           |  |
| 12957.00   | 88.850             | 183.270        | 7729.47     | 4660.10           | -4713.92      | 2613.52      | 1710831.07           | 14538727.43           | 40°01'57.592"N | 104°44'54.406"W | 1.93           |  |
| 13045.00   | 88.650             | 182.360        | 7731.39     | 4748.04           | -4801.80      | 2609.20      | 1710826.99           | 14538639.58           | 40°01'56.724"N | 104°44'54.461"W | 1.06           |  |
| 13132.00   | 88.480             | 182.130        | 7733.57     | 4834.99           | -4888.70      | 2605.80      | 1710823.82           | 14538552.70           | 40°01'55.865"N | 104°44'54.505"W | 0.33           |  |
| 13220.00   | 88.580             | 181.900        | 7735.83     | 4922.96           | -4976.62      | 2602.70      | 1710820.97           | 14538464.81           | 40°01'54.996"N | 104°44'54.545"W | 0.28           |  |
| 13308.00   | 88.220             | 181.980        | 7738.29     | 5010.91           | -5064.53      | 2599.73      | 1710818.23           | 14538376.92           | 40°01'54.128"N | 104°44'54.583"W | 0.42           |  |
| 13395.00   | 89.560             | 182.120        | 7739.97     | 5097.88           | -5151.46      | 2596.61      | 1710815.35           | 14538290.02           | 40°01'53.269"N | 104°44'54.624"W | 1.55           |  |
| 13482.00   | 89.820             | 182.020        | 7740.44     | 5184.87           | -5238.40      | 2593.47      | 1710812.45           | 14538203.10           | 40°01'52.409"N | 104°44'54.664"W | 0.32           |  |
| 13570.00   | 89.750             | 181.880        | 7740.77     | 5272.86           | -5326.35      | 2590.48      | 1710809.70           | 14538115.18           | 40°01'51.540"N | 104°44'54.703"W | 0.18           |  |
| 13657.00   | 89.880             | 181.500        | 7741.05     | 5359.86           | -5413.31      | 2587.91      | 1710807.37           | 14538028.25           | 40°01'50.681"N | 104°44'54.736"W | 0.46           |  |
| 13665.00†  | 89.887             | 181.458        | 7741.07     | 5367.86           | -5421.31      | 2587.71      | 1710807.18           | 14538020.25           | 40°01'50.602"N | 104°44'54.738"W | 0.53           | ENTER RADIUS TOE (427'FSL & 1495'FWL,SEC.23) 40.0307228 -104.7485384 |
| 13745.00   | 89.960             | 181.040        | 7741.18     | 5447.86           | -5501.29      | 2585.96      | 1710805.66           | 14537940.30           | 40°01'49.812"N | 104°44'54.761"W | 0.53           |  |
| 13833.00   | 89.730             | 181.000        | 7741.41     | 5535.86           | -5589.28      | 2584.39      | 1710804.33           | 14537852.35           | 40°01'48.942"N | 104°44'54.781"W | 0.27           |  |
| 13920.00   | 90.070             | 181.490        | 7741.57     | 5622.86           | -5676.25      | 2582.50      | 1710802.68           | 14537765.40           | 40°01'48.082"N | 104°44'54.806"W | 0.69           |  |
| 13989.00   | 89.930             | 180.480        | 7741.57     | 5691.86           | -5745.24      | 2581.32      | 1710801.68           | 14537696.43           | 40°01'47.401"N | 104°44'54.821"W | 1.48           | LAST BHGE MWD+IFR1+SC SURVEY   |
| 14033.00   | 89.930             | 180.480        | 7741.62     | 5735.85           | -5789.24      | 2580.95      | 1710801.43           | 14537652.45           | 40°01'46.966"N | 104°44'54.826"W | 0.00           | PTB (59'FSL & 1488'FWL,SEC.23) 40.0297128 -104.7485627               |

| HOLE & CASING SECTIONS - Ref Wellbore: JDB 15-4HZ AWP Ref Wellpath: JDB 15-4HZ 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] |
| 9.625in Casing Surface   | 17.00         | 1933.00     | 1916.00       | 17.00          | 1887.14      | 0.00           | 0.00           | 51.24        | 329.10       |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWB                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| TARGETS  |             |               |              |                      |                       |                |                 |         |
|--|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|---------|
| Name   | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | Shape   |
| SEC.14-T1N-R66W                                  | 0.00        | 43.71         | -10.64       | 1708195.02           | 14543476.03           | 40°02'44.610"N | 104°45'28.141"W | polygon |
| SEC.23-T1N-R66W                                  | 0.00        | 43.71         | -10.64       | 1708195.02           | 14543476.03           | 40°02'44.610"N | 104°45'28.141"W | polygon |
| JDB 15-4HZ HEEL REV-1(255'FSL & 1603'FWL,SEC.14) | 7682.00     | -329.17       | 2686.98      | 1710892.57           | 14543110.62           | 40°02'40.924"N | 104°44'53.455"W | point   |
| JDB 15-4HZ BHL REV-1(50'FSL & 1483'FWL,SEC.23)   | 7748.00     | -5797.53      | 2576.39      | 1710796.89           | 14537644.15           | 40°01'46.884"N | 104°44'54.884"W | point   |
| JDB 15-4HZ LANDBOX                               | 7748.00     | 0.00          | 0.00         | 1708205.77           | 14543432.36           | 40°02'44.178"N | 104°45'28.004"W | polygon |
| JDB 15-4HZ RADIUS 1                              | 7748.00     | -584.14       | 2408.60      | 1710615.00           | 14542855.00           | 40°02'38.404"N | 104°44'57.035"W | polygon |
| JDB 15-4HZ RADIUS 2                              | 7748.00     | -5847.57      | 2417.80      | 1710638.50           | 14537593.70           | 40°01'46.390"N | 104°44'56.923"W | polygon |

| WELLPATH COMPOSITION - Ref Wellbore: JDB 15-4HZ AWB Ref Wellpath: JDB 15-4HZ AWP |                |   |   |                |
|--|----------------|---|---|----------------|
| Start MD<br>[ft]   | End MD<br>[ft] | Positional Uncertainty Model                        | Log Name/Comment  | Wellbore       |
| 17.00  | 1883.00        | Custom APC_ISCWSA REV 2 MWD+IFR1 (approximation)    | Custom APC ISCWSA Rev-2 MWD+IFR1 <129 - 1883>           | JDB 15-4HZ AWB |
| 1883.00  | 13989.00       | Custom APC_ISCWSA REV 2 MWD+IFR1+SC (approximation) | BHGE Custom APC ISCWSA Rev-2 MWD+IFR1+SC <1965 - 13989> | JDB 15-4HZ AWB |
| 13989.00   | 14033.00       | Blind Drilling (std)                                | Projection to bit                                       | JDB 15-4HZ AWB |

| REFERENCE WELLPATH IDENTIFICATION |                                      |          |   |
|-----------------------------------|--------------------------------------|----------|---|
| Operator                          | KERR-MCGEE OIL & GAS ONSHORE LP (WA) | Slot     | SLOT#36 JDB 15-4HZ(582'FSL & 1087'FEL,SEC.15) |
| Area                              | COLORADO                             | Well     | JDB 15-4HZ                                    |
| Field                             | WELD COUNTY (UTM/TRUE NORTH)         | Wellbore | JDB 15-4HZ AWB                                |
| Facility                          | SEC.15-T1N-R66W                      |          |   |

| WELLPATH COMMENTS |                    |                |             |  |
|-------------------|--------------------|----------------|-------------|--|
| MD<br>[ft]        | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Comment  |
| 129.00            | 0.260              | 227.810        | 129.00      | FIRST SURFACE MWD+IFR1 SURVEY  |
| 1883.00           | 22.100             | 83.850         | 1840.80     | LAST SURFACE MWD+IFR1 SURVEY   |
| 1965.00           | 21.900             | 83.290         | 1916.83     | FIRST BHGE MWD+IFR1+SC SURVEY  |
| 7440.00           | 20.789             | 85.721         | 6973.16     | KOP  |
| 7812.00           | 33.455             | 144.523        | 7307.97     | ENTER LANDBOX (863'FSL & 1450'FWL,SEC.14) 40.0463770 -104.7487159    |
| 8585.00           | 89.070             | 179.420        | 7659.17     | LANDING (238'FSL & 1594'FWL,SEC.14) 40.0446594 -104.7482027          |
| 9198.00           | 87.870             | 180.240        | 7668.99     | EXIT RADIUS HEEL (375'FNL & 1592'FWL,SEC.23) 40.0429773 -104.7482111 |
| 13665.00          | 89.887             | 181.458        | 7741.07     | ENTER RADIUS TOE (427'FSL & 1495'FWL,SEC.23) 40.0307228 -104.7485384 |
| 13989.00          | 89.930             | 180.480        | 7741.57     | LAST BHGE MWD+IFR1+SC SURVEY   |
| 14033.00          | 89.930             | 180.480        | 7741.62     | PTB (59'FSL & 1488'FWL,SEC.23) 40.0297128 -104.7485627               |