

KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12)
 Field: WELD COUNTY (KERR MCGEE) Well: DOVE 40N-13HZ
 Facility: SEC.12-T2N-R66W Wellbore: DOVE 40N-13HZ PWB

Plot reference wellpath is DOVE 40N-13HZ (REV-B.0) PWP

| | |
|---|--|
| True vertical depths are referenced to XTREME 20 (RKB) | Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet |
| Measured depths are referenced to XTREME 20 (RKB) | North Reference: True north |
| XTREME 20 (RKB) to Mean Sea Level: 4983 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: precain on 4/10/2013 |

Location Information

| | | | | | | | |
|--|--|--------------|--------------|-------------------|--------------------|----------------|-----------------|
| Facility Name | | | | Grid East (US Ft) | Grid North (US Ft) | Latitude | Longitude |
| SEC.12-T2N-R66W | | | | 3218638.180 | 129513.290 | 40°09'10.665"N | 104°43'31.302"W |
| Slot | | Local N (ft) | Local E (ft) | Grid East (US Ft) | Grid North (US Ft) | Latitude | Longitude |
| SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) | | 2260.79 | 2130.36 | 3218638.620 | 1301792.501 | 40°09'33.005"N | 104°43'03.864"W |
| XTREME 20 (RKB) to Mud line (At Slot: SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12)) | | | | 4983ft | | | |
| Mean Sea Level to Mud line (At Slot: SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12)) | | | | 0ft | | | |
| XTREME 20 (RKB) to Mean Sea Level | | | | 4983ft | | | |

Survey Program

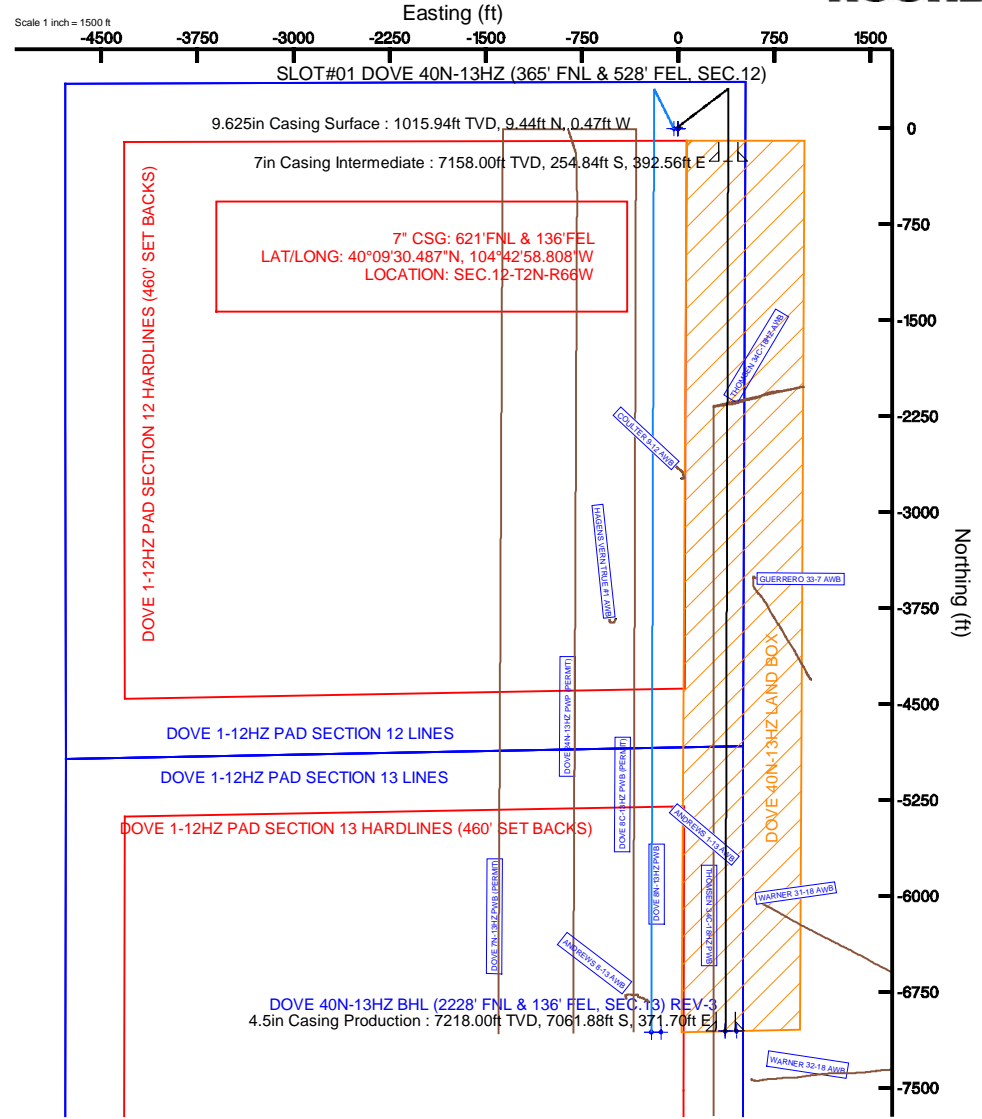
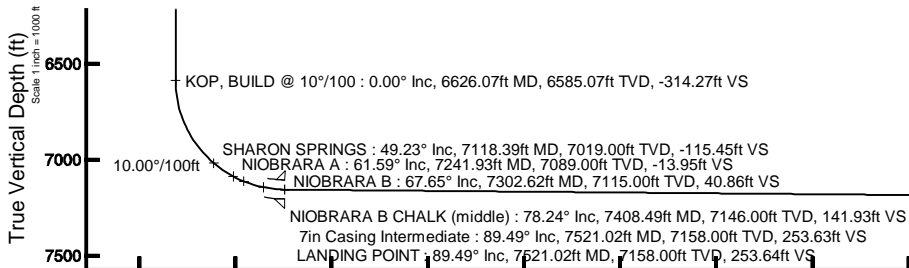
| Start MD (ft) | End MD (ft) | Tool | Model | Log Name/Comment | Wellbore |
|---------------|-------------|---------------------------|--------------------------------------|------------------|-------------------|
| 16.00 | 946.00 | Generic gyro - continuous | Generic gyro - continuous (Standard) | | DOVE 40N-13HZ AWB |
| 946.00 | 7521.02 | NavitTrak | NavitTrak (MAGCORR,IFR) | | DOVE 40N-13HZ PWB |
| 7521.02 | 14328.36 | OnTrak | OnTrak (MAGCORR,IFR) | | DOVE 40N-13HZ PWB |

Well Profile Data

| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|----------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| TIE-ON | 946.00 | 0.890 | 15.650 | 945.95 | 8.40 | -0.76 | 0.00 | -8.39 |
| BEGIN NUUDGE | 1120.07 | 0.890 | 15.650 | 1120.00 | 11.00 | -0.03 | 0.00 | -11.00 |
| END NUUDGE | 1585.37 | 10.000 | 52.800 | 1582.75 | 38.97 | 33.19 | 2.00 | -39.07 |
| BEGIN DROP | 3945.47 | 10.000 | 52.800 | 3907.00 | 286.75 | 359.63 | 0.00 | -287.85 |
| END DROP | 4445.47 | 0.000 | 180.176 | 4404.47 | 313.06 | 394.30 | 2.00 | -314.27 |
| KOP, BUILD @ 10°/100 | 6626.07 | 0.000 | 180.176 | 6585.07 | 313.06 | 394.30 | 0.00 | -314.27 |
| LANDING POINT | 7521.02 | 89.495 | 180.176 | 7158.00 | -254.84 | 392.56 | 10.00 | 253.64 |
| TOTAL DEPTH | 14328.36 | 89.495 | 180.176 | 7218.00 | -7061.88 | 371.70 | 0.00 | 7060.71 |

Targets

| Name | MD (ft) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US Ft) | Grid North (US Ft) | Latitude | Longitude |
|---|----------|----------|--------------|--------------|-------------------|--------------------|-----------------|-----------------|
| DOVE 1-12HZ PAD SECTION 12 HARDLINES (460' SET BACKS) | 4983.00 | 0.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| DOVE 1-12HZ PAD SECTION 12 LINES | 4983.00 | 0.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| DOVE 1-12HZ PAD SECTION 13 HARDLINES (460' SET BACKS) | 4983.00 | 0.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| DOVE 1-12HZ PAD SECTION 13 LINES | 4983.00 | 0.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| DOVE 40N-13HZ LAND BOX | 4983.00 | 0.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| DOVE 40N-13HZ BHL (2228' FNL & 136' FEL, SEC.13) REV-2 | 7155.00 | -7061.88 | 371.68 | 3219072.56 | 1294734.48 | 40°08'23.219"N | 104°42'59.078"W | |
| DOVE 40N-13HZ BHL ON PLAT (2228' FNL & 50' FEL, SEC.13) REV-1 | 7155.00 | -7061.88 | 457.89 | 3219158.57 | 1294735.24 | 40°08'23.219"N | 104°42'57.971"W | |
| DOVE 40N-13HZ BHL (2228' FNL & 136' FEL, SEC.13) REV-3 | 14328.36 | 7218.00 | -7061.88 | 371.70 | 3219072.59 | 1294734.48 | 40°08'23.219"N | 104°42'59.078"W |



DOVE 40N-13HZ BHL (2228' FNL & 136' FEL, SEC.13) REV-3
4.5in Casing Production : 89.49° Inc, 14328.36ft MD, 7218.00ft TVD, 7060.71ft VS

Azimuth 180.18° with reference 0.00 N, 0.00 E



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 1 of 7



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

| REPORT SETUP INFORMATION | | | |
|--------------------------|---|----------------------|---------------------------------------|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 3.0.2 |
| North Reference | True | User | Precain |
| Scale | 0.999958 | Report Generated | 4/10/2013 at 3:11:07 PM |
| Convergence at slot | 0.51° East | Database/Source file | WellArchitectDB/DOVE_40N-13HZ_PWB.xml |

| WELLPATH LOCATION | | | | | | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 2260.79 | 2130.36 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W |
| Facility Reference Pt | | | 3216528.18 | 1299513.29 | 40°09'10.665"N | 104°43'31.302"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 20 (RKB) to Facility Vertical Datum | 4983.00ft |
| Horizontal Reference Pt | Slot | XTREME 20 (RKB) to Mean Sea Level | 4983.00ft |
| Vertical Reference Pt | XTREME 20 (RKB) | XTREME 20 (RKB) to Mud Line at Slot (SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12)) | 4983.00ft |
| MD Reference Pt | XTREME 20 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 180.18° |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 2 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

WELLPATH DATA (159 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 | 317.420 | 0.00 | 0.00 | 0.00 | 0.00 | 40°09'33.005"N | 104°43'03.864"W | 0.00 | |
| 16.00 | 0.000 | 317.420 | 16.00 | 0.00 | 0.00 | 0.00 | 40°09'33.005"N | 104°43'03.864"W | 0.00 | |
| 116.00 | 0.300 | 317.420 | 116.00 | -0.19 | 0.19 | -0.18 | 40°09'33.007"N | 104°43'03.866"W | 0.30 | |
| 216.00 | 0.370 | 286.050 | 216.00 | -0.47 | 0.47 | -0.66 | 40°09'33.010"N | 104°43'03.873"W | 0.19 | |
| 316.00 | 0.530 | 1.490 | 316.00 | -1.02 | 1.03 | -0.96 | 40°09'33.015"N | 104°43'03.876"W | 0.56 | |
| 416.00 | 0.550 | 318.010 | 415.99 | -1.84 | 1.85 | -1.27 | 40°09'33.023"N | 104°43'03.880"W | 0.40 | |
| 516.00 | 0.950 | 4.830 | 515.98 | -3.02 | 3.03 | -1.52 | 40°09'33.035"N | 104°43'03.884"W | 0.70 | |
| 616.00 | 0.510 | 15.040 | 615.98 | -4.28 | 4.28 | -1.34 | 40°09'33.047"N | 104°43'03.881"W | 0.46 | |
| 706.03† | 0.858 | 355.380 | 706.00 | -5.34 | 5.34 | -1.29 | 40°09'33.058"N | 104°43'03.881"W | 0.46 | FOX HILLS |
| 716.00 | 0.900 | 354.170 | 715.97 | -5.49 | 5.50 | -1.30 | 40°09'33.059"N | 104°43'03.881"W | 0.46 | |
| 816.00 | 0.530 | 20.850 | 815.96 | -6.71 | 6.71 | -1.22 | 40°09'33.071"N | 104°43'03.880"W | 0.49 | |
| 916.00 | 0.930 | 12.410 | 915.95 | -7.93 | 7.93 | -0.88 | 40°09'33.083"N | 104°43'03.875"W | 0.41 | |
| 946.00 | 0.890 | 15.650 | 945.95 | -8.39 | 8.40 | -0.76 | 40°09'33.088"N | 104°43'03.874"W | 0.00 | TIE-ON |
| 1046.00† | 0.890 | 15.650 | 1045.94 | -9.89 | 9.89 | -0.34 | 40°09'33.103"N | 104°43'03.868"W | 0.00 | |
| 1120.07 | 0.890 | 15.650 | 1120.00 | -11.00 | 11.00 | -0.03 | 40°09'33.114"N | 104°43'03.864"W | 0.00 | BEGIN NUDDGE |
| 1146.00† | 1.328 | 30.319 | 1145.92 | -11.45 | 11.45 | 0.17 | 40°09'33.118"N | 104°43'03.862"W | 2.00 | |
| 1246.00† | 3.248 | 45.849 | 1245.84 | -14.43 | 14.43 | 2.79 | 40°09'33.148"N | 104°43'03.828"W | 2.00 | |
| 1346.00† | 5.228 | 49.754 | 1345.56 | -19.37 | 19.34 | 8.30 | 40°09'33.196"N | 104°43'03.757"W | 2.00 | |
| 1446.00† | 7.219 | 51.514 | 1444.97 | -26.25 | 26.20 | 16.70 | 40°09'33.264"N | 104°43'03.649"W | 2.00 | |
| 1546.00† | 9.214 | 52.515 | 1543.93 | -35.07 | 34.98 | 27.97 | 40°09'33.351"N | 104°43'03.504"W | 2.00 | |
| 1585.37 | 10.000 | 52.800 | 1582.75 | -39.07 | 38.97 | 33.19 | 40°09'33.390"N | 104°43'03.436"W | 2.00 | END NUDDGE |
| 1646.00† | 10.000 | 52.800 | 1642.46 | -45.46 | 45.33 | 41.58 | 40°09'33.453"N | 104°43'03.328"W | 0.00 | |
| 1746.00† | 10.000 | 52.800 | 1740.94 | -56.00 | 55.83 | 55.41 | 40°09'33.557"N | 104°43'03.150"W | 0.00 | |
| 1846.00† | 10.000 | 52.800 | 1839.42 | -66.54 | 66.33 | 69.24 | 40°09'33.660"N | 104°43'02.972"W | 0.00 | |
| 1946.00† | 10.000 | 52.800 | 1937.90 | -77.08 | 76.83 | 83.07 | 40°09'33.764"N | 104°43'02.794"W | 0.00 | |
| 2046.00† | 10.000 | 52.800 | 2036.38 | -87.62 | 87.33 | 96.91 | 40°09'33.868"N | 104°43'02.616"W | 0.00 | |
| 2146.00† | 10.000 | 52.800 | 2134.86 | -98.16 | 97.82 | 110.74 | 40°09'33.972"N | 104°43'02.438"W | 0.00 | |
| 2246.00† | 10.000 | 52.800 | 2233.35 | -108.71 | 108.32 | 124.57 | 40°09'34.075"N | 104°43'02.260"W | 0.00 | |
| 2346.00† | 10.000 | 52.800 | 2331.83 | -119.25 | 118.82 | 138.40 | 40°09'34.179"N | 104°43'02.081"W | 0.00 | |
| 2446.00† | 10.000 | 52.800 | 2430.31 | -129.79 | 129.32 | 152.23 | 40°09'34.283"N | 104°43'01.903"W | 0.00 | |
| 2546.00† | 10.000 | 52.800 | 2528.79 | -140.33 | 139.82 | 166.06 | 40°09'34.387"N | 104°43'01.725"W | 0.00 | |
| 2646.00† | 10.000 | 52.800 | 2627.27 | -150.87 | 150.32 | 179.89 | 40°09'34.490"N | 104°43'01.547"W | 0.00 | |
| 2746.00† | 10.000 | 52.800 | 2725.75 | -161.41 | 160.82 | 193.73 | 40°09'34.594"N | 104°43'01.369"W | 0.00 | |
| 2846.00† | 10.000 | 52.800 | 2824.23 | -171.95 | 171.32 | 207.56 | 40°09'34.698"N | 104°43'01.191"W | 0.00 | |
| 2946.00† | 10.000 | 52.800 | 2922.71 | -182.49 | 181.81 | 221.39 | 40°09'34.802"N | 104°43'01.013"W | 0.00 | |
| 3046.00† | 10.000 | 52.800 | 3021.19 | -193.04 | 192.31 | 235.22 | 40°09'34.905"N | 104°43'00.834"W | 0.00 | |
| 3146.00† | 10.000 | 52.800 | 3119.67 | -203.58 | 202.81 | 249.05 | 40°09'35.009"N | 104°43'00.656"W | 0.00 | |
| 3246.00† | 10.000 | 52.800 | 3218.15 | -214.12 | 213.31 | 262.88 | 40°09'35.113"N | 104°43'00.478"W | 0.00 | |
| 3345.36† | 10.000 | 52.800 | 3316.00 | -224.59 | 223.74 | 276.63 | 40°09'35.216"N | 104°43'00.301"W | 0.00 | PARKMAN |
| 3346.00† | 10.000 | 52.800 | 3316.63 | -224.66 | 223.81 | 276.72 | 40°09'35.217"N | 104°43'00.300"W | 0.00 | |
| 3446.00† | 10.000 | 52.800 | 3415.11 | -235.20 | 234.31 | 290.55 | 40°09'35.320"N | 104°43'00.122"W | 0.00 | |
| 3546.00† | 10.000 | 52.800 | 3513.60 | -245.74 | 244.81 | 304.38 | 40°09'35.424"N | 104°42'59.944"W | 0.00 | |
| 3646.00† | 10.000 | 52.800 | 3612.08 | -256.28 | 255.31 | 318.21 | 40°09'35.528"N | 104°42'59.766"W | 0.00 | |
| 3746.00† | 10.000 | 52.800 | 3710.56 | -266.82 | 265.80 | 332.04 | 40°09'35.632"N | 104°42'59.587"W | 0.00 | |
| 3846.00† | 10.000 | 52.800 | 3809.04 | -277.36 | 276.30 | 345.87 | 40°09'35.735"N | 104°42'59.409"W | 0.00 | |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 3 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|---------------------------|
| 3945.47 | 10.000 | 52.800 | 3907.00 | -287.85 | 286.75 | 359.63 | 40°09'35.839"N | 104°42'59.232"W | 0.00 | BEGIN DROP |
| 3946.00† | 9.989 | 52.800 | 3907.52 | -287.91 | 286.80 | 359.71 | 40°09'35.839"N | 104°42'59.231"W | 2.00 | |
| 4046.00† | 7.989 | 52.800 | 4006.29 | -297.39 | 296.25 | 372.15 | 40°09'35.933"N | 104°42'59.071"W | 2.00 | |
| 4146.00† | 5.989 | 52.800 | 4105.54 | -304.78 | 303.61 | 381.84 | 40°09'36.005"N | 104°42'58.946"W | 2.00 | |
| 4246.00† | 3.989 | 52.800 | 4205.15 | -310.06 | 308.86 | 388.77 | 40°09'36.057"N | 104°42'58.857"W | 2.00 | |
| 4346.00† | 1.989 | 52.800 | 4305.01 | -313.22 | 312.02 | 392.92 | 40°09'36.088"N | 104°42'58.803"W | 2.00 | |
| 4395.01† | 1.009 | 52.800 | 4354.00 | -314.00 | 312.79 | 393.95 | 40°09'36.096"N | 104°42'58.790"W | 2.00 | SUSSEX |
| 4445.47 | 0.000 | 180.176 | 4404.47 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 2.00 | END DROP |
| 4446.00† | 0.000 | 180.176 | 4404.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 4546.00† | 0.000 | 180.176 | 4504.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 4646.00† | 0.000 | 180.176 | 4604.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 4746.00† | 0.000 | 180.176 | 4704.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 4846.00† | 0.000 | 180.176 | 4804.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 4946.00† | 0.000 | 180.176 | 4904.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5046.00† | 0.000 | 180.176 | 5004.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5146.00† | 0.000 | 180.176 | 5104.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5246.00† | 0.000 | 180.176 | 5204.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5346.00† | 0.000 | 180.176 | 5304.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5446.00† | 0.000 | 180.176 | 5404.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5546.00† | 0.000 | 180.176 | 5504.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5646.00† | 0.000 | 180.176 | 5604.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5746.00† | 0.000 | 180.176 | 5704.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5846.00† | 0.000 | 180.176 | 5804.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 5946.00† | 0.000 | 180.176 | 5904.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6046.00† | 0.000 | 180.176 | 6004.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6146.00† | 0.000 | 180.176 | 6104.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6246.00† | 0.000 | 180.176 | 6204.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6346.00† | 0.000 | 180.176 | 6304.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6446.00† | 0.000 | 180.176 | 6404.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6546.00† | 0.000 | 180.176 | 6504.99 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | |
| 6626.07 | 0.000 | 180.176 | 6585.07 | -314.27 | 313.06 | 394.30 | 40°09'36.099"N | 104°42'58.786"W | 0.00 | KOP, BUILD @ 10°/100 |
| 6646.00† | 1.993 | 180.176 | 6604.99 | -313.92 | 312.71 | 394.30 | 40°09'36.095"N | 104°42'58.786"W | 10.00 | |
| 6746.00† | 11.993 | 180.176 | 6704.12 | -301.77 | 300.56 | 394.26 | 40°09'35.975"N | 104°42'58.786"W | 10.00 | |
| 6846.00† | 21.993 | 180.176 | 6799.63 | -272.58 | 271.37 | 394.17 | 40°09'35.687"N | 104°42'58.787"W | 10.00 | |
| 6946.00† | 31.993 | 180.176 | 6888.62 | -227.25 | 226.04 | 394.03 | 40°09'35.239"N | 104°42'58.789"W | 10.00 | |
| 7046.00† | 41.993 | 180.176 | 6968.39 | -167.15 | 165.94 | 393.85 | 40°09'34.645"N | 104°42'58.791"W | 10.00 | |
| 7118.39† | 49.232 | 180.176 | 7019.00 | -115.45 | 114.24 | 393.69 | 40°09'34.134"N | 104°42'58.793"W | 10.00 | SHARON SPRINGS |
| 7146.00† | 51.993 | 180.176 | 7036.52 | -94.12 | 92.91 | 393.63 | 40°09'33.923"N | 104°42'58.794"W | 10.00 | |
| 7241.93† | 61.586 | 180.176 | 7089.00 | -13.95 | 12.74 | 393.38 | 40°09'33.131"N | 104°42'58.797"W | 10.00 | NIOBRARA A |
| 7246.00† | 61.993 | 180.176 | 7090.92 | -10.36 | 9.16 | 393.37 | 40°09'33.095"N | 104°42'58.798"W | 10.00 | |
| 7302.62† | 67.655 | 180.176 | 7115.00 | 40.86 | -42.07 | 393.21 | 40°09'32.589"N | 104°42'58.800"W | 10.00 | NIOBRARA B |
| 7346.00† | 71.993 | 180.176 | 7129.96 | 81.56 | -82.77 | 393.09 | 40°09'32.187"N | 104°42'58.801"W | 10.00 | |
| 7408.49† | 78.242 | 180.176 | 7146.00 | 141.93 | -143.13 | 392.90 | 40°09'31.591"N | 104°42'58.804"W | 10.00 | NIOBRARA B CHALK (middle) |
| 7446.00† | 81.993 | 180.176 | 7152.44 | 178.87 | -180.08 | 392.79 | 40°09'31.225"N | 104°42'58.805"W | 10.00 | |
| 7521.02 | 89.495 | 180.176 | 7158.00 | 253.64 | -254.84 | 392.56 | 40°09'30.487"N | 104°42'58.808"W | 10.00 | LANDING POINT |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 4 of 7



| REFERENCE WELLPATH IDENTIFICATION | | | | |
|-----------------------------------|---------------------------------|--|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|-----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|----------|
| 7546.00† | 89.495 | 180.176 | 7158.22 | 278.61 | -279.82 | 392.48 | 40°09'30.240"N | 104°42'58.809"W | 0.00 | |
| 7646.00† | 89.495 | 180.176 | 7159.10 | 378.61 | -379.82 | 392.18 | 40°09'29.252"N | 104°42'58.813"W | 0.00 | |
| 7746.00† | 89.495 | 180.176 | 7159.98 | 478.61 | -479.81 | 391.87 | 40°09'28.263"N | 104°42'58.817"W | 0.00 | |
| 7846.00† | 89.495 | 180.176 | 7160.87 | 578.60 | -579.81 | 391.56 | 40°09'27.275"N | 104°42'58.821"W | 0.00 | |
| 7946.00† | 89.495 | 180.176 | 7161.75 | 678.60 | -679.80 | 391.26 | 40°09'26.287"N | 104°42'58.825"W | 0.00 | |
| 8046.00† | 89.495 | 180.176 | 7162.63 | 778.59 | -779.80 | 390.95 | 40°09'25.299"N | 104°42'58.829"W | 0.00 | |
| 8146.00† | 89.495 | 180.176 | 7163.51 | 878.59 | -879.79 | 390.64 | 40°09'24.311"N | 104°42'58.833"W | 0.00 | |
| 8246.00† | 89.495 | 180.176 | 7164.39 | 978.59 | -979.79 | 390.34 | 40°09'23.323"N | 104°42'58.837"W | 0.00 | |
| 8346.00† | 89.495 | 180.176 | 7165.27 | 1078.58 | -1079.79 | 390.03 | 40°09'22.334"N | 104°42'58.841"W | 0.00 | |
| 8446.00† | 89.495 | 180.176 | 7166.15 | 1178.58 | -1179.78 | 389.73 | 40°09'21.346"N | 104°42'58.845"W | 0.00 | |
| 8546.00† | 89.495 | 180.176 | 7167.03 | 1278.57 | -1279.78 | 389.42 | 40°09'20.358"N | 104°42'58.849"W | 0.00 | |
| 8646.00† | 89.495 | 180.176 | 7167.92 | 1378.57 | -1379.77 | 389.11 | 40°09'19.370"N | 104°42'58.853"W | 0.00 | |
| 8746.00† | 89.495 | 180.176 | 7168.80 | 1478.57 | -1479.77 | 388.81 | 40°09'18.382"N | 104°42'58.857"W | 0.00 | |
| 8846.00† | 89.495 | 180.176 | 7169.68 | 1578.56 | -1579.76 | 388.50 | 40°09'17.394"N | 104°42'58.861"W | 0.00 | |
| 8946.00† | 89.495 | 180.176 | 7170.56 | 1678.56 | -1679.76 | 388.19 | 40°09'16.406"N | 104°42'58.865"W | 0.00 | |
| 9046.00† | 89.495 | 180.176 | 7171.44 | 1778.55 | -1779.75 | 387.89 | 40°09'15.417"N | 104°42'58.869"W | 0.00 | |
| 9146.00† | 89.495 | 180.176 | 7172.32 | 1878.55 | -1879.75 | 387.58 | 40°09'14.429"N | 104°42'58.872"W | 0.00 | |
| 9246.00† | 89.495 | 180.176 | 7173.20 | 1978.55 | -1979.75 | 387.27 | 40°09'13.441"N | 104°42'58.876"W | 0.00 | |
| 9346.00† | 89.495 | 180.176 | 7174.09 | 2078.54 | -2079.74 | 386.97 | 40°09'12.453"N | 104°42'58.880"W | 0.00 | |
| 9446.00† | 89.495 | 180.176 | 7174.97 | 2178.54 | -2179.74 | 386.66 | 40°09'11.465"N | 104°42'58.884"W | 0.00 | |
| 9546.00† | 89.495 | 180.176 | 7175.85 | 2278.54 | -2279.73 | 386.36 | 40°09'10.477"N | 104°42'58.888"W | 0.00 | |
| 9646.00† | 89.495 | 180.176 | 7176.73 | 2378.53 | -2379.73 | 386.05 | 40°09'09.488"N | 104°42'58.892"W | 0.00 | |
| 9746.00† | 89.495 | 180.176 | 7177.61 | 2478.53 | -2479.72 | 385.74 | 40°09'08.500"N | 104°42'58.896"W | 0.00 | |
| 9846.00† | 89.495 | 180.176 | 7178.49 | 2578.52 | -2579.72 | 385.44 | 40°09'07.512"N | 104°42'58.900"W | 0.00 | |
| 9946.00† | 89.495 | 180.176 | 7179.37 | 2678.52 | -2679.72 | 385.13 | 40°09'06.524"N | 104°42'58.904"W | 0.00 | |
| 10046.00† | 89.495 | 180.176 | 7180.26 | 2778.52 | -2779.71 | 384.82 | 40°09'05.536"N | 104°42'58.908"W | 0.00 | |
| 10146.00† | 89.495 | 180.176 | 7181.14 | 2878.51 | -2879.71 | 384.52 | 40°09'04.548"N | 104°42'58.912"W | 0.00 | |
| 10246.00† | 89.495 | 180.176 | 7182.02 | 2978.51 | -2979.70 | 384.21 | 40°09'03.559"N | 104°42'58.916"W | 0.00 | |
| 10346.00† | 89.495 | 180.176 | 7182.90 | 3078.50 | -3079.70 | 383.90 | 40°09'02.571"N | 104°42'58.920"W | 0.00 | |
| 10446.00† | 89.495 | 180.176 | 7183.78 | 3178.50 | -3179.69 | 383.60 | 40°09'01.583"N | 104°42'58.924"W | 0.00 | |
| 10546.00† | 89.495 | 180.176 | 7184.66 | 3278.50 | -3279.69 | 383.29 | 40°09'00.595"N | 104°42'58.928"W | 0.00 | |
| 10646.00† | 89.495 | 180.176 | 7185.54 | 3378.49 | -3379.69 | 382.98 | 40°08'59.607"N | 104°42'58.932"W | 0.00 | |
| 10746.00† | 89.495 | 180.176 | 7186.43 | 3478.49 | -3479.68 | 382.68 | 40°08'58.619"N | 104°42'58.936"W | 0.00 | |
| 10846.00† | 89.495 | 180.176 | 7187.31 | 3578.49 | -3579.68 | 382.37 | 40°08'57.630"N | 104°42'58.940"W | 0.00 | |
| 10946.00† | 89.495 | 180.176 | 7188.19 | 3678.48 | -3679.67 | 382.07 | 40°08'56.642"N | 104°42'58.944"W | 0.00 | |
| 11046.00† | 89.495 | 180.176 | 7189.07 | 3778.48 | -3779.67 | 381.76 | 40°08'55.654"N | 104°42'58.948"W | 0.00 | |
| 11146.00† | 89.495 | 180.176 | 7189.95 | 3878.47 | -3879.66 | 381.45 | 40°08'54.666"N | 104°42'58.952"W | 0.00 | |
| 11246.00† | 89.495 | 180.176 | 7190.83 | 3978.47 | -3979.66 | 381.15 | 40°08'53.678"N | 104°42'58.956"W | 0.00 | |
| 11346.00† | 89.495 | 180.176 | 7191.71 | 4078.47 | -4079.65 | 380.84 | 40°08'52.690"N | 104°42'58.960"W | 0.00 | |
| 11446.00† | 89.495 | 180.176 | 7192.60 | 4178.46 | -4179.65 | 380.53 | 40°08'51.701"N | 104°42'58.964"W | 0.00 | |
| 11546.00† | 89.495 | 180.176 | 7193.48 | 4278.46 | -4279.65 | 380.23 | 40°08'50.713"N | 104°42'58.968"W | 0.00 | |
| 11646.00† | 89.495 | 180.176 | 7194.36 | 4378.45 | -4379.64 | 379.92 | 40°08'49.725"N | 104°42'58.972"W | 0.00 | |
| 11746.00† | 89.495 | 180.176 | 7195.24 | 4478.45 | -4479.64 | 379.61 | 40°08'48.737"N | 104°42'58.976"W | 0.00 | |
| 11846.00† | 89.495 | 180.176 | 7196.12 | 4578.45 | -4579.63 | 379.31 | 40°08'47.749"N | 104°42'58.980"W | 0.00 | |
| 11946.00† | 89.495 | 180.176 | 7197.00 | 4678.44 | -4679.63 | 379.00 | 40°08'46.761"N | 104°42'58.984"W | 0.00 | |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 5 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

WELLPATH DATA (159 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|-----------|-----------------|-------------|----------------------|----------------|------------|-----------|----------------|-----------------|---------------|-------------|
| 12046.00† | 89.495 | 180.176 | 7197.88 | 4778.44 | -4779.62 | 378.69 | 40°08'45.772"N | 104°42'58.988"W | 0.00 | |
| 12146.00† | 89.495 | 180.176 | 7198.76 | 4878.43 | -4879.62 | 378.39 | 40°08'44.784"N | 104°42'58.991"W | 0.00 | |
| 12246.00† | 89.495 | 180.176 | 7199.65 | 4978.43 | -4979.62 | 378.08 | 40°08'43.796"N | 104°42'58.995"W | 0.00 | |
| 12346.00† | 89.495 | 180.176 | 7200.53 | 5078.43 | -5079.61 | 377.78 | 40°08'42.808"N | 104°42'58.999"W | 0.00 | |
| 12446.00† | 89.495 | 180.176 | 7201.41 | 5178.42 | -5179.61 | 377.47 | 40°08'41.820"N | 104°42'59.003"W | 0.00 | |
| 12546.00† | 89.495 | 180.176 | 7202.29 | 5278.42 | -5279.60 | 377.16 | 40°08'40.832"N | 104°42'59.007"W | 0.00 | |
| 12646.00† | 89.495 | 180.176 | 7203.17 | 5378.42 | -5379.60 | 376.86 | 40°08'39.843"N | 104°42'59.011"W | 0.00 | |
| 12746.00† | 89.495 | 180.176 | 7204.05 | 5478.41 | -5479.59 | 376.55 | 40°08'38.855"N | 104°42'59.015"W | 0.00 | |
| 12846.00† | 89.495 | 180.176 | 7204.93 | 5578.41 | -5579.59 | 376.24 | 40°08'37.867"N | 104°42'59.019"W | 0.00 | |
| 12946.00† | 89.495 | 180.176 | 7205.82 | 5678.40 | -5679.59 | 375.94 | 40°08'36.879"N | 104°42'59.023"W | 0.00 | |
| 13046.00† | 89.495 | 180.176 | 7206.70 | 5778.40 | -5779.58 | 375.63 | 40°08'35.891"N | 104°42'59.027"W | 0.00 | |
| 13146.00† | 89.495 | 180.176 | 7207.58 | 5878.40 | -5879.58 | 375.32 | 40°08'34.903"N | 104°42'59.031"W | 0.00 | |
| 13246.00† | 89.495 | 180.176 | 7208.46 | 5978.39 | -5979.57 | 375.02 | 40°08'33.914"N | 104°42'59.035"W | 0.00 | |
| 13346.00† | 89.495 | 180.176 | 7209.34 | 6078.39 | -6079.57 | 374.71 | 40°08'32.926"N | 104°42'59.039"W | 0.00 | |
| 13446.00† | 89.495 | 180.176 | 7210.22 | 6178.38 | -6179.56 | 374.41 | 40°08'31.938"N | 104°42'59.043"W | 0.00 | |
| 13546.00† | 89.495 | 180.176 | 7211.10 | 6278.38 | -6279.56 | 374.10 | 40°08'30.950"N | 104°42'59.047"W | 0.00 | |
| 13646.00† | 89.495 | 180.176 | 7211.99 | 6378.38 | -6379.55 | 373.79 | 40°08'29.962"N | 104°42'59.051"W | 0.00 | |
| 13746.00† | 89.495 | 180.176 | 7212.87 | 6478.37 | -6479.55 | 373.49 | 40°08'28.974"N | 104°42'59.055"W | 0.00 | |
| 13846.00† | 89.495 | 180.176 | 7213.75 | 6578.37 | -6579.55 | 373.18 | 40°08'27.985"N | 104°42'59.059"W | 0.00 | |
| 13946.00† | 89.495 | 180.176 | 7214.63 | 6678.36 | -6679.54 | 372.87 | 40°08'26.997"N | 104°42'59.063"W | 0.00 | |
| 14046.00† | 89.495 | 180.176 | 7215.51 | 6778.36 | -6779.54 | 372.57 | 40°08'26.009"N | 104°42'59.067"W | 0.00 | |
| 14146.00† | 89.495 | 180.176 | 7216.39 | 6878.36 | -6879.53 | 372.26 | 40°08'25.021"N | 104°42'59.071"W | 0.00 | |
| 14246.00† | 89.495 | 180.176 | 7217.27 | 6978.35 | -6979.53 | 371.95 | 40°08'24.033"N | 104°42'59.075"W | 0.00 | |
| 14328.36 | 89.495 | 180.176 | 7218.00 ¹ | 7060.71 | -7061.88 | 371.70 | 40°08'23.219"N | 104°42'59.078"W | 0.00 | TOTAL DEPTH |

HOLE & CASING SECTIONS - Ref Wellbore: DOVE 40N-13HZ PWB Ref Wellpath: DOVE 40N-13HZ (REV-B.0) PWP

| 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 | 16.00 | 1016.00 | 1000.00 | 16.00 | 1015.94 | 0.00 | 0.00 | 9.44 | -0.47 |
| 9.625in Casing Surface | 16.00 | 1016.00 | 1000.00 | 16.00 | 1015.94 | 0.00 | 0.00 | 9.44 | -0.47 |
| 8.75in Open Hole | 1016.00 | 7521.02 | 6505.02 | 1015.94 | 7158.00 | 9.44 | -0.47 | -254.84 | 392.56 |
| 7in Casing Intermediate | 16.00 | 7521.02 | 7505.02 | 16.00 | 7158.00 | 0.00 | 0.00 | -254.84 | 392.56 |
| 6.125in Open Hole | 7521.02 | 14328.36 | 6807.34 | 7158.00 | 7218.00 | -254.84 | 392.56 | -7061.88 | 371.70 |
| 4.5in Casing Production | 16.00 | 14328.36 | 14312.36 | 16.00 | 7218.00 | 0.00 | 0.00 | -7061.88 | 371.70 |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 6 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|---|----------|----------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------|
| DOVE 1-12HZ PAD SECTION 12 HARDLINES (460' SET BACKS) | | 4983.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W | polygon |
| DOVE 1-12HZ PAD SECTION 12 LINES | | 4983.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W | polygon |
| DOVE 1-12HZ PAD SECTION 13 HARDLINES (460' SET BACKS) | | 4983.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W | polygon |
| DOVE 1-12HZ PAD SECTION 13 LINES | | 4983.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W | polygon |
| DOVE 40N-13HZ LAND BOX | | 4983.00 | 0.00 | 0.00 | 3218638.62 | 1301792.50 | 40°09'33.005"N | 104°43'03.864"W | polygon |
| DOVE 40N-13HZ BHL (2228' FNL & 136' FEL, SEC.13) REV-2 | | 7155.00 | -7061.88 | 371.68 | 3219072.56 | 1294734.48 | 40°08'23.219"N | 104°42'59.078"W | point |
| DOVE 40N-13HZ BHL ON PLAT (2228' FNL & 50' FEL, SEC.13) REV-1 | | 7155.00 | -7061.88 | 457.69 | 3219158.57 | 1294735.24 | 40°08'23.219"N | 104°42'57.971"W | point |
| 1) DOVE 40N-13HZ BHL (2228' FNL & 136' FEL, SEC.13) REV-3 | 14328.36 | 7218.00 | -7061.88 | 371.70 | 3219072.59 | 1294734.48 | 40°08'23.219"N | 104°42'59.078"W | point |

SURVEY PROGRAM - Ref Wellbore: DOVE 40N-13HZ PWB Ref Wellpath: DOVE 40N-13HZ (REV-B.0) PWP

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|---------------|-------------|--------------------------------------|------------------|-------------------|
| 16.00 | 946.00 | Generic gyro - continuous (Standard) | | DOVE 40N-13HZ AWB |
| 946.00 | 7521.02 | NaviTrak (MAGCORR,IFR) | | DOVE 40N-13HZ PWB |
| 7521.02 | 14328.36 | OnTrak (MAGCORR,IFR) | | DOVE 40N-13HZ PWB |



Planned Wellpath Report

DOVE 40N-13HZ (REV-B.0) PWP

Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 DOVE 40N-13HZ (365' FNL & 528' FEL, SEC.12) |
| Area | COLORADO | Well | DOVE 40N-13HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | DOVE 40N-13HZ PWB |
| Facility | SEC.12-T2N-R66W | | |

WELLPATH COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|---------|-----------------|-------------|----------|---------------------------|
| 706.03 | 0.858 | 355.380 | 706.00 | FOX HILLS |
| 3345.36 | 10.000 | 52.800 | 3316.00 | PARKMAN |
| 4395.01 | 1.009 | 52.800 | 4354.00 | SUSSEX |
| 7118.39 | 49.232 | 180.176 | 7019.00 | SHARON SPRINGS |
| 7241.93 | 61.586 | 180.176 | 7089.00 | NIOBRARA A |
| 7302.62 | 67.655 | 180.176 | 7115.00 | NIOBRARA B |
| 7408.49 | 78.242 | 180.176 | 7146.00 | NIOBRARA B CHALK (middle) |