

KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03)
 Field: WELD COUNTY (KERR MCGEE) Well: BURKHARDT 34N-3HZ
 Facility: SEC.03-T1N-R66W Wellbore: BURKHARDT 34N-3HZ PWB

Plot reference wellpath is BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

| | |
|--|--|
| True vertical depths are referenced to PERMIT (17RKB) (RKB) | Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet |
| Measured depths are referenced to PERMIT (17RKB) (RKB) | North Reference: True north |
| PERMIT (17RKB) (RKB) to Mean Sea Level: 5036 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: SLOTR01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: robiale01 on 13/Nov/2013 |

Location Information

| | | | | | | |
|--|--------------|-------------------|--------------------|--------------------|-----------------|-----------------|
| Facility Name | | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude | |
| SEC.03-T1N-R66W | | 3204647.315 | 1275079.541 | 40°05'10.203"N | 104°46'06.906"W | |
| Slot | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
| SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03) | 0.00 | 0.00 | 3204647.315 | 1275079.541 | 40°05'10.203"N | 104°46'06.906"W |
| PERMIT (17RKB) (RKB) to Mud line (At Slot: SLOTR01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03)) | | 5036ft | | | | |
| Mean Sea Level to Mud line (At Slot: SLOTR01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03)) | | 0ft | | | | |
| PERMIT (17RKB) (RKB) to Mean Sea Level | | 5036ft | | | | |

Survey Program

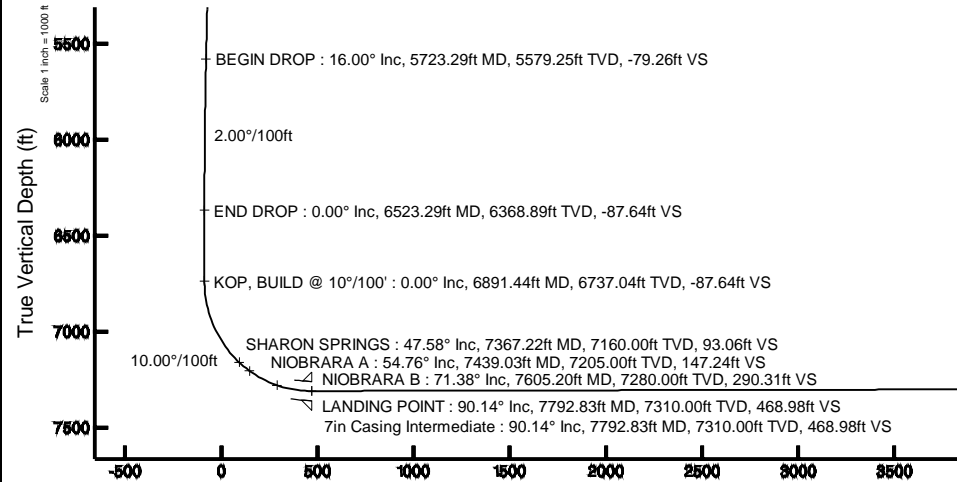
| Start MD (ft) | End MD (ft) | Tool | Model | Log Name/Comment | Wellbore |
|---------------|-------------|----------|---------------------|------------------|-----------------------|
| 17.00 | 11913.23 | NaviTrak | NaviTrak (Standard) | | BURKHARDT 34N-3HZ PWB |

Well Profile Data

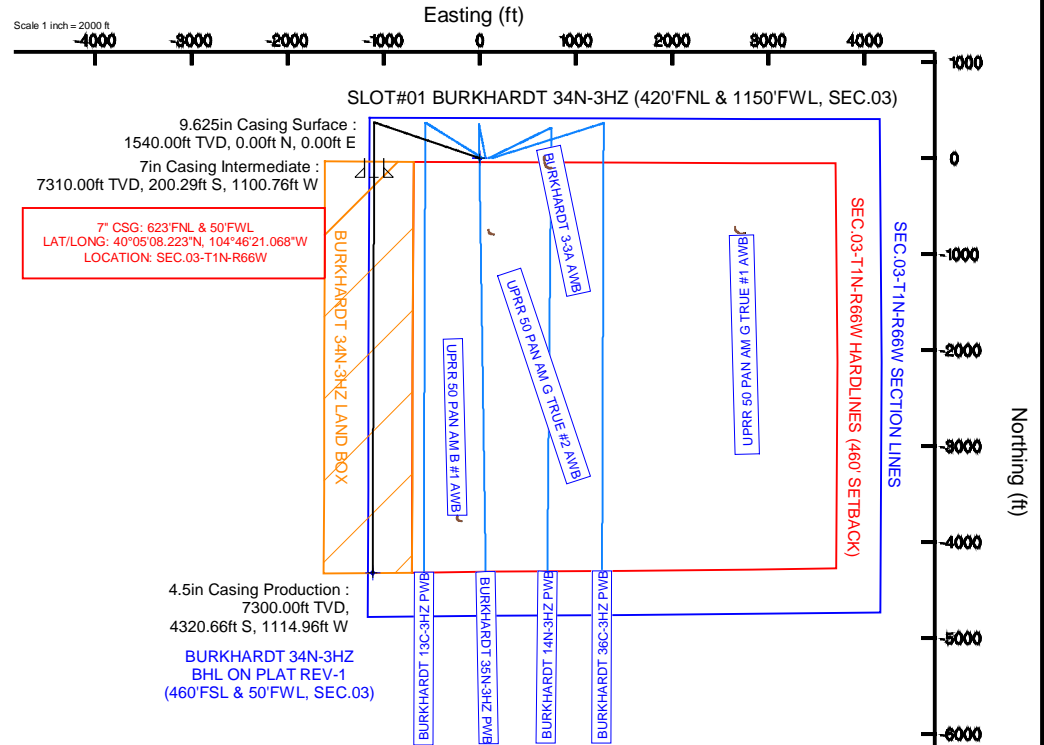
| Design Comment | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|-----------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| TIE ON | 17.00 | 0.000 | 288.800 | 17.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BEGIN NUDGE | 1650.00 | 0.000 | 288.800 | 1650.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| END NUDGE | 2183.33 | 16.000 | 288.800 | 2176.43 | 23.84 | -70.04 | 3.00 | -5.59 |
| BEGIN DROP | 5723.29 | 16.000 | 288.800 | 5579.25 | 338.29 | -993.72 | 0.00 | -79.26 |
| END DROP | 6523.29 | 0.000 | 180.197 | 6368.89 | 374.06 | -1098.78 | 2.00 | -87.64 |
| KOP, BUILD @ 10°/100' | 6891.44 | 0.000 | 180.197 | 6737.04 | 374.06 | -1098.78 | 0.00 | -87.64 |
| LANDING POINT | 7792.83 | 90.139 | 180.197 | 7310.00 | -200.29 | -1100.76 | 10.00 | 468.98 |
| TOTAL DEPTH | 11913.23 | 90.139 | 180.197 | 7300.00 | -4320.66 | -1114.96 | 0.00 | 4462.20 |

Targets

| Name | MD (ft) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (US ft) | Grid North (US ft) | Latitude | Longitude |
|--|----------|----------|--------------|--------------|-------------------|--------------------|----------------|-----------------|
| BURKHARDT 34N-3HZ BHL ON PLAT REV-1 (460'FSL & 50'FWL, SEC.03) | 11913.23 | 7300.00 | -4320.66 | -1114.96 | 3203568.07 | 1270750.01 | 40°04'27.505"N | 104°46'21.248"W |
| BURKHARDT 34N-3HZ LAND BOX | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W |
| SEC.03-T1N-R66W HARDLINES (460' SETBACK) | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W |
| SEC.03-T1N-R66W SECTION LINES | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W |



Vertical Section (ft)
 Azimuth 194.47° with reference 0.00 N, 0.00 E



BURKHARDT 34N-3HZ BHL ON PLAT REV-1 (460'FSL & 50'FWL, SEC.03)
 4.5in Casing Production : 90.14° Inc, 11913.23ft MD, 7300.00ft TVD, 4462.20ft VS
 TOTAL DEPTH : 90.14° Inc, 11913.23ft MD, 7300.00ft TVD, 4462.20ft VS

Scale 1 inch = 1000 ft



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP
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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC. |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|---|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 4.0.0 |
| North Reference | True | User | Robiale01 |
| Scale | 0.999961 | Report Generated | 13/Nov/2013 at 16:08 |
| Convergence at slot | n/a | Database/Source file | WellArchitectDB/BURKHARDT_34N-3HZ_PWB.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|-------------|-------------------|-------------------|------------------------|------------------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 0.00 | 0.00 | 3204647.32 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W |
| Facility Reference Pt | | | 3204647.32 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | | |
|--------------------------|-----------------------|--|--------------------------|
| Calculation method | Minimum curvature | PERMIT (17'RKB) (RKB) to Facility Vertical Datum | 5036.00ft |
| Horizontal Reference Pt | Slot | PERMIT (17'RKB) (RKB) to Mean Sea Level | 5036.00ft |
| Vertical Reference Pt | PERMIT (17'RKB) (RKB) | PERMIT (17'RKB) (RKB) to Mud Line at Slot (SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.03)) | 5036.00ft |
| MD Reference Pt | PERMIT (17'RKB) (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 194.47° |



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC. |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

WELLPATH DATA (133 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 | 288.800 | 0.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 17.00 | 0.000 | 288.800 | 17.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | TIE ON |
| 117.00† | 0.000 | 288.800 | 117.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 217.00† | 0.000 | 288.800 | 217.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 317.00† | 0.000 | 288.800 | 317.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 417.00† | 0.000 | 288.800 | 417.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 517.00† | 0.000 | 288.800 | 517.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 617.00† | 0.000 | 288.800 | 617.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 717.00† | 0.000 | 288.800 | 717.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 817.00† | 0.000 | 288.800 | 817.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 917.00† | 0.000 | 288.800 | 917.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1017.00† | 0.000 | 288.800 | 1017.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1117.00† | 0.000 | 288.800 | 1117.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1217.00† | 0.000 | 288.800 | 1217.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1317.00† | 0.000 | 288.800 | 1317.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1417.00† | 0.000 | 288.800 | 1417.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1490.00† | 0.000 | 288.800 | 1490.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | FOX HILLS MARKER |
| 1517.00† | 0.000 | 288.800 | 1517.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1617.00† | 0.000 | 288.800 | 1617.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | |
| 1650.00 | 0.000 | 288.800 | 1650.00 | 0.00 | 0.00 | 0.00 | 40°05'10.203"N | 104°46'06.906"W | 0.00 | BEGIN NUDGE |
| 1717.00† | 2.010 | 288.800 | 1716.99 | -0.09 | 0.38 | -1.11 | 40°05'10.207"N | 104°46'06.920"W | 3.00 | |
| 1817.00† | 5.010 | 288.800 | 1816.79 | -0.55 | 2.35 | -6.91 | 40°05'10.226"N | 104°46'06.995"W | 3.00 | |
| 1917.00† | 8.010 | 288.800 | 1916.13 | -1.41 | 6.00 | -17.64 | 40°05'10.262"N | 104°46'07.133"W | 3.00 | |
| 2017.00† | 11.010 | 288.800 | 2014.75 | -2.65 | 11.33 | -33.28 | 40°05'10.315"N | 104°46'07.334"W | 3.00 | |
| 2117.00† | 14.010 | 288.800 | 2112.36 | -4.29 | 18.31 | -53.78 | 40°05'10.384"N | 104°46'07.598"W | 3.00 | |
| 2183.33 | 16.000 | 288.800 | 2176.43 | -5.59 | 23.84 | -70.04 | 40°05'10.439"N | 104°46'07.807"W | 3.00 | END NUDGE |
| 2217.00† | 16.000 | 288.800 | 2208.79 | -6.29 | 26.83 | -78.82 | 40°05'10.468"N | 104°46'07.920"W | 0.00 | |
| 2317.00† | 16.000 | 288.800 | 2304.92 | -8.37 | 35.72 | -104.92 | 40°05'10.556"N | 104°46'08.256"W | 0.00 | |
| 2417.00† | 16.000 | 288.800 | 2401.04 | -10.45 | 44.60 | -131.01 | 40°05'10.644"N | 104°46'08.592"W | 0.00 | |
| 2517.00† | 16.000 | 288.800 | 2497.17 | -12.53 | 53.48 | -157.10 | 40°05'10.732"N | 104°46'08.927"W | 0.00 | |
| 2617.00† | 16.000 | 288.800 | 2593.30 | -14.61 | 62.36 | -183.20 | 40°05'10.819"N | 104°46'09.263"W | 0.00 | |
| 2717.00† | 16.000 | 288.800 | 2689.42 | -16.69 | 71.25 | -209.29 | 40°05'10.907"N | 104°46'09.599"W | 0.00 | |
| 2817.00† | 16.000 | 288.800 | 2785.55 | -18.77 | 80.13 | -235.38 | 40°05'10.995"N | 104°46'09.934"W | 0.00 | |
| 2917.00† | 16.000 | 288.800 | 2881.67 | -20.86 | 89.01 | -261.47 | 40°05'11.083"N | 104°46'10.270"W | 0.00 | |
| 3017.00† | 16.000 | 288.800 | 2977.80 | -22.94 | 97.90 | -287.57 | 40°05'11.170"N | 104°46'10.606"W | 0.00 | |
| 3117.00† | 16.000 | 288.800 | 3073.93 | -25.02 | 106.78 | -313.66 | 40°05'11.258"N | 104°46'10.942"W | 0.00 | |
| 3217.00† | 16.000 | 288.800 | 3170.05 | -27.10 | 115.66 | -339.75 | 40°05'11.346"N | 104°46'11.277"W | 0.00 | |
| 3317.00† | 16.000 | 288.800 | 3266.18 | -29.18 | 124.54 | -365.85 | 40°05'11.434"N | 104°46'11.613"W | 0.00 | |
| 3417.00† | 16.000 | 288.800 | 3362.31 | -31.26 | 133.43 | -391.94 | 40°05'11.522"N | 104°46'11.949"W | 0.00 | |
| 3517.00† | 16.000 | 288.800 | 3458.43 | -33.34 | 142.31 | -418.03 | 40°05'11.609"N | 104°46'12.284"W | 0.00 | |
| 3617.00† | 16.000 | 288.800 | 3554.56 | -35.42 | 151.19 | -444.13 | 40°05'11.697"N | 104°46'12.620"W | 0.00 | |
| 3717.00† | 16.000 | 288.800 | 3650.68 | -37.51 | 160.08 | -470.22 | 40°05'11.785"N | 104°46'12.956"W | 0.00 | |
| 3817.00† | 16.000 | 288.800 | 3746.81 | -39.59 | 168.96 | -496.31 | 40°05'11.873"N | 104°46'13.292"W | 0.00 | |
| 3917.00† | 16.000 | 288.800 | 3842.94 | -41.67 | 177.84 | -522.41 | 40°05'11.960"N | 104°46'13.627"W | 0.00 | |
| 4017.00† | 16.000 | 288.800 | 3939.06 | -43.75 | 186.72 | -548.50 | 40°05'12.048"N | 104°46'13.963"W | 0.00 | |



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|--|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC.) |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

| WELLPATH DATA (133 stations) † = interpolated/extrapolated station | | | | | | | | | | |
|--|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|-----------------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
| 4117.00† | 16.000 | 288.800 | 4035.19 | -45.83 | 195.61 | -574.59 | 40°05'12.136"N | 104°46'14.299"W | 0.00 | |
| 4151.13† | 16.000 | 288.800 | 4068.00 | -46.54 | 198.64 | -583.50 | 40°05'12.166"N | 104°46'14.413"W | 0.00 | PARKMAN |
| 4217.00† | 16.000 | 288.800 | 4131.31 | -47.91 | 204.49 | -600.69 | 40°05'12.224"N | 104°46'14.634"W | 0.00 | |
| 4317.00† | 16.000 | 288.800 | 4227.44 | -49.99 | 213.37 | -626.78 | 40°05'12.312"N | 104°46'14.970"W | 0.00 | |
| 4417.00† | 16.000 | 288.800 | 4323.57 | -52.07 | 222.26 | -652.87 | 40°05'12.399"N | 104°46'15.306"W | 0.00 | |
| 4517.00† | 16.000 | 288.800 | 4419.69 | -54.16 | 231.14 | -678.97 | 40°05'12.487"N | 104°46'15.642"W | 0.00 | |
| 4617.00† | 16.000 | 288.800 | 4515.82 | -56.24 | 240.02 | -705.06 | 40°05'12.575"N | 104°46'15.977"W | 0.00 | |
| 4712.90† | 16.000 | 288.800 | 4608.00 | -58.23 | 248.54 | -730.08 | 40°05'12.659"N | 104°46'16.299"W | 0.00 | SUSSEX |
| 4717.00† | 16.000 | 288.800 | 4611.95 | -58.32 | 248.90 | -731.15 | 40°05'12.663"N | 104°46'16.313"W | 0.00 | |
| 4817.00† | 16.000 | 288.800 | 4708.07 | -60.40 | 257.79 | -757.25 | 40°05'12.750"N | 104°46'16.649"W | 0.00 | |
| 4917.00† | 16.000 | 288.800 | 4804.20 | -62.48 | 266.67 | -783.34 | 40°05'12.838"N | 104°46'16.984"W | 0.00 | |
| 5017.00† | 16.000 | 288.800 | 4900.32 | -64.56 | 275.55 | -809.43 | 40°05'12.926"N | 104°46'17.320"W | 0.00 | |
| 5117.00† | 16.000 | 288.800 | 4996.45 | -66.64 | 284.44 | -835.52 | 40°05'13.014"N | 104°46'17.656"W | 0.00 | |
| 5217.00† | 16.000 | 288.800 | 5092.58 | -68.72 | 293.32 | -861.62 | 40°05'13.101"N | 104°46'17.992"W | 0.00 | |
| 5317.00† | 16.000 | 288.800 | 5188.70 | -70.81 | 302.20 | -887.71 | 40°05'13.189"N | 104°46'18.327"W | 0.00 | |
| 5417.00† | 16.000 | 288.800 | 5284.83 | -72.89 | 311.08 | -913.80 | 40°05'13.277"N | 104°46'18.663"W | 0.00 | |
| 5517.00† | 16.000 | 288.800 | 5380.95 | -74.97 | 319.97 | -939.90 | 40°05'13.365"N | 104°46'18.999"W | 0.00 | |
| 5617.00† | 16.000 | 288.800 | 5477.08 | -77.05 | 328.85 | -965.99 | 40°05'13.453"N | 104°46'19.334"W | 0.00 | |
| 5717.00† | 16.000 | 288.800 | 5573.21 | -79.13 | 337.73 | -992.08 | 40°05'13.540"N | 104°46'19.670"W | 0.00 | |
| 5723.29 | 16.000 | 288.800 | 5579.25 | -79.26 | 338.29 | -993.72 | 40°05'13.546"N | 104°46'19.691"W | 0.00 | BEGIN DROP |
| 5817.00† | 14.126 | 288.800 | 5669.74 | -81.10 | 346.14 | -1016.78 | 40°05'13.623"N | 104°46'19.988"W | 2.00 | |
| 5917.00† | 12.126 | 288.800 | 5767.12 | -82.81 | 353.46 | -1038.27 | 40°05'13.696"N | 104°46'20.264"W | 2.00 | |
| 6017.00† | 10.126 | 288.800 | 5865.24 | -84.27 | 359.68 | -1056.54 | 40°05'13.757"N | 104°46'20.499"W | 2.00 | |
| 6117.00† | 8.126 | 288.800 | 5963.97 | -85.47 | 364.79 | -1071.55 | 40°05'13.808"N | 104°46'20.693"W | 2.00 | |
| 6217.00† | 6.126 | 288.800 | 6063.19 | -86.41 | 368.78 | -1083.30 | 40°05'13.847"N | 104°46'20.844"W | 2.00 | |
| 6317.00† | 4.126 | 288.800 | 6162.78 | -87.08 | 371.66 | -1091.75 | 40°05'13.876"N | 104°46'20.953"W | 2.00 | |
| 6417.00† | 2.126 | 288.800 | 6262.63 | -87.49 | 373.42 | -1096.91 | 40°05'13.893"N | 104°46'21.019"W | 2.00 | |
| 6517.00† | 0.126 | 288.800 | 6362.61 | -87.64 | 374.05 | -1098.77 | 40°05'13.899"N | 104°46'21.043"W | 2.00 | |
| 6523.29 | 0.000 | 180.197 | 6368.89 | -87.64 | 374.06 | -1098.78 | 40°05'13.899"N | 104°46'21.043"W | 2.00 | END DROP |
| 6617.00† | 0.000 | 180.197 | 6462.61 | -87.64 | 374.06 | -1098.78 | 40°05'13.899"N | 104°46'21.043"W | 0.00 | |
| 6717.00† | 0.000 | 180.197 | 6562.61 | -87.64 | 374.06 | -1098.78 | 40°05'13.899"N | 104°46'21.043"W | 0.00 | |
| 6817.00† | 0.000 | 180.197 | 6662.61 | -87.64 | 374.06 | -1098.78 | 40°05'13.899"N | 104°46'21.043"W | 0.00 | |
| 6891.44 | 0.000 | 180.197 | 6737.04 | -87.64 | 374.06 | -1098.78 | 40°05'13.899"N | 104°46'21.043"W | 0.00 | KOP, BUILD @ 10°/100' |
| 6917.00† | 2.556 | 180.197 | 6762.60 | -87.09 | 373.49 | -1098.78 | 40°05'13.894"N | 104°46'21.043"W | 10.00 | |
| 7017.00† | 12.556 | 180.197 | 6861.60 | -74.36 | 360.35 | -1098.83 | 40°05'13.764"N | 104°46'21.044"W | 10.00 | |
| 7117.00† | 22.556 | 180.197 | 6956.82 | -45.16 | 330.23 | -1098.93 | 40°05'13.466"N | 104°46'21.045"W | 10.00 | |
| 7217.00† | 32.556 | 180.197 | 7045.37 | -0.39 | 284.02 | -1099.09 | 40°05'13.010"N | 104°46'21.047"W | 10.00 | |
| 7317.00† | 42.556 | 180.197 | 7124.54 | 58.61 | 223.15 | -1099.30 | 40°05'12.408"N | 104°46'21.050"W | 10.00 | |
| 7367.22† | 47.578 | 180.197 | 7160.00 | 93.06 | 187.61 | -1099.42 | 40°05'12.057"N | 104°46'21.051"W | 10.00 | SHARON SPRINGS |
| 7417.00† | 52.556 | 180.197 | 7191.94 | 130.04 | 149.45 | -1099.55 | 40°05'11.680"N | 104°46'21.053"W | 10.00 | |
| 7439.03† | 54.760 | 180.197 | 7205.00 | 147.24 | 131.70 | -1099.62 | 40°05'11.504"N | 104°46'21.054"W | 10.00 | NIOBRARA A |
| 7517.00† | 62.556 | 180.197 | 7245.52 | 211.72 | 65.16 | -1099.85 | 40°05'10.847"N | 104°46'21.056"W | 10.00 | |
| 7605.20† | 71.376 | 180.197 | 7280.00 | 290.31 | -15.93 | -1100.12 | 40°05'10.045"N | 104°46'21.060"W | 10.00 | NIOBRARA B |
| 7617.00† | 72.556 | 180.197 | 7283.65 | 301.18 | -27.15 | -1100.16 | 40°05'09.935"N | 104°46'21.060"W | 10.00 | |
| 7717.00† | 82.556 | 180.197 | 7305.17 | 395.70 | -124.67 | -1100.50 | 40°05'08.971"N | 104°46'21.065"W | 10.00 | |



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

Page 4 of 6



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC. |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

WELLPATH DATA (133 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|----------------------|-------------------|---------------|--------------|----------------|-----------------|------------------|---------------|
| 7792.83 | 90.139 | 180.197 | 7310.00 | 468.98 | -200.29 | -1100.76 | 40°05'08.223"N | 104°46'21.068"W | 10.00 | LANDING POINT |
| 7817.00† | 90.139 | 180.197 | 7309.94 | 492.41 | -224.46 | -1100.84 | 40°05'07.985"N | 104°46'21.069"W | 0.00 | |
| 7917.00† | 90.139 | 180.197 | 7309.70 | 589.32 | -324.46 | -1101.19 | 40°05'06.996"N | 104°46'21.074"W | 0.00 | |
| 8017.00† | 90.139 | 180.197 | 7309.45 | 686.23 | -424.46 | -1101.53 | 40°05'06.008"N | 104°46'21.078"W | 0.00 | |
| 8117.00† | 90.139 | 180.197 | 7309.21 | 783.15 | -524.46 | -1101.88 | 40°05'05.020"N | 104°46'21.082"W | 0.00 | |
| 8217.00† | 90.139 | 180.197 | 7308.97 | 880.06 | -624.46 | -1102.22 | 40°05'04.032"N | 104°46'21.087"W | 0.00 | |
| 8317.00† | 90.139 | 180.197 | 7308.73 | 976.97 | -724.46 | -1102.57 | 40°05'03.044"N | 104°46'21.091"W | 0.00 | |
| 8417.00† | 90.139 | 180.197 | 7308.48 | 1073.89 | -824.46 | -1102.91 | 40°05'02.055"N | 104°46'21.095"W | 0.00 | |
| 8517.00† | 90.139 | 180.197 | 7308.24 | 1170.80 | -924.46 | -1103.26 | 40°05'01.067"N | 104°46'21.100"W | 0.00 | |
| 8617.00† | 90.139 | 180.197 | 7308.00 | 1267.71 | -1024.46 | -1103.60 | 40°05'00.079"N | 104°46'21.104"W | 0.00 | |
| 8717.00† | 90.139 | 180.197 | 7307.76 | 1364.63 | -1124.45 | -1103.95 | 40°04'59.091"N | 104°46'21.109"W | 0.00 | |
| 8817.00† | 90.139 | 180.197 | 7307.51 | 1461.54 | -1224.45 | -1104.29 | 40°04'58.102"N | 104°46'21.113"W | 0.00 | |
| 8917.00† | 90.139 | 180.197 | 7307.27 | 1558.45 | -1324.45 | -1104.63 | 40°04'57.114"N | 104°46'21.117"W | 0.00 | |
| 9017.00† | 90.139 | 180.197 | 7307.03 | 1655.37 | -1424.45 | -1104.98 | 40°04'56.126"N | 104°46'21.122"W | 0.00 | |
| 9117.00† | 90.139 | 180.197 | 7306.79 | 1752.28 | -1524.45 | -1105.32 | 40°04'55.138"N | 104°46'21.126"W | 0.00 | |
| 9217.00† | 90.139 | 180.197 | 7306.54 | 1849.19 | -1624.45 | -1105.67 | 40°04'54.150"N | 104°46'21.130"W | 0.00 | |
| 9317.00† | 90.139 | 180.197 | 7306.30 | 1946.11 | -1724.45 | -1106.01 | 40°04'53.161"N | 104°46'21.135"W | 0.00 | |
| 9417.00† | 90.139 | 180.197 | 7306.06 | 2043.02 | -1824.45 | -1106.36 | 40°04'52.173"N | 104°46'21.139"W | 0.00 | |
| 9517.00† | 90.139 | 180.197 | 7305.81 | 2139.93 | -1924.45 | -1106.70 | 40°04'51.185"N | 104°46'21.144"W | 0.00 | |
| 9617.00† | 90.139 | 180.197 | 7305.57 | 2236.85 | -2024.45 | -1107.05 | 40°04'50.197"N | 104°46'21.148"W | 0.00 | |
| 9717.00† | 90.139 | 180.197 | 7305.33 | 2333.76 | -2124.45 | -1107.39 | 40°04'49.209"N | 104°46'21.152"W | 0.00 | |
| 9817.00† | 90.139 | 180.197 | 7305.09 | 2430.67 | -2224.44 | -1107.74 | 40°04'48.220"N | 104°46'21.157"W | 0.00 | |
| 9917.00† | 90.139 | 180.197 | 7304.84 | 2527.59 | -2324.44 | -1108.08 | 40°04'47.232"N | 104°46'21.161"W | 0.00 | |
| 10017.00† | 90.139 | 180.197 | 7304.60 | 2624.50 | -2424.44 | -1108.43 | 40°04'46.244"N | 104°46'21.165"W | 0.00 | |
| 10117.00† | 90.139 | 180.197 | 7304.36 | 2721.41 | -2524.44 | -1108.77 | 40°04'45.256"N | 104°46'21.170"W | 0.00 | |
| 10217.00† | 90.139 | 180.197 | 7304.12 | 2818.33 | -2624.44 | -1109.12 | 40°04'44.268"N | 104°46'21.174"W | 0.00 | |
| 10317.00† | 90.139 | 180.197 | 7303.87 | 2915.24 | -2724.44 | -1109.46 | 40°04'43.279"N | 104°46'21.179"W | 0.00 | |
| 10417.00† | 90.139 | 180.197 | 7303.63 | 3012.15 | -2824.44 | -1109.80 | 40°04'42.291"N | 104°46'21.183"W | 0.00 | |
| 10517.00† | 90.139 | 180.197 | 7303.39 | 3109.07 | -2924.44 | -1110.15 | 40°04'41.303"N | 104°46'21.187"W | 0.00 | |
| 10617.00† | 90.139 | 180.197 | 7303.15 | 3205.98 | -3024.44 | -1110.49 | 40°04'40.315"N | 104°46'21.192"W | 0.00 | |
| 10717.00† | 90.139 | 180.197 | 7302.90 | 3302.89 | -3124.44 | -1110.84 | 40°04'39.327"N | 104°46'21.196"W | 0.00 | |
| 10817.00† | 90.139 | 180.197 | 7302.66 | 3399.81 | -3224.44 | -1111.18 | 40°04'38.338"N | 104°46'21.200"W | 0.00 | |
| 10917.00† | 90.139 | 180.197 | 7302.42 | 3496.72 | -3324.43 | -1111.53 | 40°04'37.350"N | 104°46'21.205"W | 0.00 | |
| 11017.00† | 90.139 | 180.197 | 7302.17 | 3593.63 | -3424.43 | -1111.87 | 40°04'36.362"N | 104°46'21.209"W | 0.00 | |
| 11117.00† | 90.139 | 180.197 | 7301.93 | 3690.55 | -3524.43 | -1112.22 | 40°04'35.374"N | 104°46'21.214"W | 0.00 | |
| 11217.00† | 90.139 | 180.197 | 7301.69 | 3787.46 | -3624.43 | -1112.56 | 40°04'34.385"N | 104°46'21.218"W | 0.00 | |
| 11317.00† | 90.139 | 180.197 | 7301.45 | 3884.37 | -3724.43 | -1112.91 | 40°04'33.397"N | 104°46'21.222"W | 0.00 | |
| 11417.00† | 90.139 | 180.197 | 7301.20 | 3981.28 | -3824.43 | -1113.25 | 40°04'32.409"N | 104°46'21.227"W | 0.00 | |
| 11517.00† | 90.139 | 180.197 | 7300.96 | 4078.20 | -3924.43 | -1113.60 | 40°04'31.421"N | 104°46'21.231"W | 0.00 | |
| 11617.00† | 90.139 | 180.197 | 7300.72 | 4175.11 | -4024.43 | -1113.94 | 40°04'30.433"N | 104°46'21.235"W | 0.00 | |
| 11717.00† | 90.139 | 180.197 | 7300.48 | 4272.02 | -4124.43 | -1114.29 | 40°04'29.444"N | 104°46'21.240"W | 0.00 | |
| 11817.00† | 90.139 | 180.197 | 7300.23 | 4368.94 | -4224.43 | -1114.63 | 40°04'28.456"N | 104°46'21.244"W | 0.00 | |
| 11913.23 | 90.139 | 180.197 | 7300.00 ¹ | 4462.20 | -4320.66 | -1114.96 | 40°04'27.505"N | 104°46'21.248"W | 0.00 | TOTAL DEPTH |



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC. |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

HOLE & CASING SECTIONS -

| Ref Wellbore: BURKHARDT 34N-3HZ PWB Ref Wellpath: BURKHARDT 34N-3HZ (PERMIT REV-1) 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 | 17.00 | 1540.00 | 1523.00 | 17.00 | 1540.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.625in Casing Surface | 17.00 | 1540.00 | 1523.00 | 17.00 | 1540.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.75in Open Hole | 1540.00 | 7792.83 | 6252.83 | 1540.00 | 7310.00 | 0.00 | 0.00 | -200.29 | -1100.76 |
| 7in Casing Intermediate | 17.00 | 7792.83 | 7775.83 | 17.00 | 7310.00 | 0.00 | 0.00 | -200.29 | -1100.76 |
| 6.125in Open Hole | 7792.83 | 11913.23 | 4120.40 | 7310.00 | 7300.00 | -200.29 | -1100.76 | -4320.66 | -1114.96 |
| 4.5in Casing Production | 17.00 | 11913.23 | 11896.23 | 17.00 | 7300.00 | 0.00 | 0.00 | -4320.66 | -1114.96 |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|---|----------|----------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------|
| 1) BURKHARDT 34N-3HZ BHL ON PLAT REV-1 (460'FSL & 50'FWL, SEC.03) | 11913.23 | 7300.00 | -4320.66 | -1114.96 | 3203568.07 | 1270750.01 | 40°04'27.505"N | 104°46'21.248"W | point |
| BURKHARDT 34N-3HZ LAND BOX | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W | polygon |
| SEC.03-T1N-R66W HARDLINES (460' SETBACK) | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W | polygon |
| SEC.03-T1N-R66W SECTION LINES | | 7300.00 | 0.00 | 0.00 | 3204647.31 | 1275079.54 | 40°05'10.203"N | 104°46'06.906"W | polygon |

SURVEY PROGRAM -

| Ref Wellbore: BURKHARDT 34N-3HZ PWB Ref Wellpath: BURKHARDT 34N-3HZ (PERMIT REV-1) PWP | | | | |
|---|-------------|------------------------------|------------------|-----------------------|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 17.00 | 11913.23 | NaviTrak (Standard) | | BURKHARDT 34N-3HZ PWB |



Planned Wellpath Report

BURKHARDT 34N-3HZ (PERMIT REV-1) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 BURKHARDT 34N-3HZ (420'FNL & 1150'FWL, SEC. |
| Area | COLORADO | Well | BURKHARDT 34N-3HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | BURKHARDT 34N-3HZ PWB |
| Facility | SEC.03-T1N-R66W | | |

WELLPATH COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|---------|-----------------|-------------|----------|------------------|
| 1490.00 | 0.000 | 288.800 | 1490.00 | FOX HILLS MARKER |
| 4151.13 | 16.000 | 288.800 | 4068.00 | PARKMAN |
| 4712.90 | 16.000 | 288.800 | 4608.00 | SUSSEX |
| 7367.22 | 47.578 | 180.197 | 7160.00 | SHARON SPRINGS |
| 7439.03 | 54.760 | 180.197 | 7205.00 | NIOBRARA A |
| 7605.20 | 71.376 | 180.197 | 7280.00 | NIOBRARA B |

DESIGN COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|----------|-----------------|-------------|----------|-----------------------|
| 17.00 | 0.000 | 288.800 | 17.00 | TIE ON |
| 1650.00 | 0.000 | 288.800 | 1650.00 | BEGIN NUDGE |
| 2183.33 | 16.000 | 288.800 | 2176.43 | END NUDGE |
| 5723.29 | 16.000 | 288.800 | 5579.25 | BEGIN DROP |
| 6523.29 | 0.000 | 180.197 | 6368.89 | END DROP |
| 6891.44 | 0.000 | 180.197 | 6737.04 | KOP, BUILD @ 10°/100' |
| 7792.83 | 90.139 | 180.197 | 7310.00 | LANDING POINT |
| 11913.23 | 90.139 | 180.197 | 7300.00 | TOTAL DEPTH |