





Planned Wellpath Report

GITTLEIN 3N-28HZ (PERMIT) PWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) |
| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R65W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|--|
| Projection System | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System | WellArchitect® 3.0.2 |
| North Reference | True | User | Wilsjef02 |
| Scale | 0.999961 | Report Generated | 8/20/2012 at 10:27:10 |
| Convergence at slot | 0.54° East | Database/Source file | WellArchitectDB/GITTLEIN_3N-28HZ_PWB.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 59.72 | 974.80 | 3232019.40 | 1276147.87 | 40°05'18.380"N | 104°40'14.614"W |
| Facility Reference Pt | | | 3231045.24 | 1276079.08 | 40°05'17.790"N | 104°40'27.156"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | |
|--------------------------|--|--|
| Calculation method | Minimum curvature | Rig on SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) (RKB) to Facility Vertical Datum |
| Horizontal Reference Pt | Slot | Rig on SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) (RKB) to Mean Sea Level |
| Vertical Reference Pt | Rig on SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) (RKB) | Rig on SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) (RKB) to Mud Line at Slot (SLOT#08 GITTLEIN 3N- |
| MD Reference Pt | Rig on SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) (RKB) | Section Origin |
| Field Vertical Reference | Mean Sea Level | Section Azimuth |



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| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R6SW | | |

WELLPATH DATA (153 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 | 111.120 | 0.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 17.00 | 0.000 | 111.120 | 17.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | Tie On |
| 117.00† | 0.000 | 111.120 | 117.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 217.00† | 0.000 | 111.120 | 217.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 317.00† | 0.000 | 111.120 | 317.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 417.00† | 0.000 | 111.120 | 417.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 517.00† | 0.000 | 111.120 | 517.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 617.00† | 0.000 | 111.120 | 617.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 717.00† | 0.000 | 111.120 | 717.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 750.00† | 0.000 | 111.120 | 750.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | FOX HILLS |
| 817.00† | 0.000 | 111.120 | 817.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 917.00† | 0.000 | 111.120 | 917.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1017.00† | 0.000 | 111.120 | 1017.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1117.00† | 0.000 | 111.120 | 1117.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1217.00† | 0.000 | 111.120 | 1217.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1317.00† | 0.000 | 111.120 | 1317.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1417.00† | 0.000 | 111.120 | 1417.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | |
| 1500.00 | 0.000 | 111.120 | 1500.00 | 0.00 | 0.00 | 0.00 | 40°05'18.380"N | 104°40'14.614"W | 0.00 | End of Tangent |
| 1517.00† | 0.340 | 111.120 | 1517.00 | -0.02 | -0.02 | 0.05 | 40°05'18.380"N | 104°40'14.613"W | 2.00 | |
| 1617.00† | 2.340 | 111.120 | 1616.97 | -0.72 | -0.86 | 2.23 | 40°05'18.371"N | 104°40'14.585"W | 2.00 | |
| 1717.00† | 4.340 | 111.120 | 1716.79 | -2.46 | -2.96 | 7.66 | 40°05'18.351"N | 104°40'14.515"W | 2.00 | |
| 1776.25 | 5.525 | 111.120 | 1775.82 | -3.98 | -4.80 | 12.42 | 40°05'18.333"N | 104°40'14.454"W | 2.00 | End of Build (J) |
| 1817.00† | 5.525 | 111.120 | 1816.38 | -5.16 | -6.21 | 16.07 | 40°05'18.319"N | 104°40'14.407"W | 0.00 | |
| 1917.00† | 5.525 | 111.120 | 1915.92 | -8.04 | -9.68 | 25.06 | 40°05'18.284"N | 104°40'14.292"W | 0.00 | |
| 2017.00† | 5.525 | 111.120 | 2015.45 | -10.93 | -13.15 | 34.04 | 40°05'18.250"N | 104°40'14.176"W | 0.00 | |
| 2117.00† | 5.525 | 111.120 | 2114.99 | -13.81 | -16.62 | 43.02 | 40°05'18.216"N | 104°40'14.061"W | 0.00 | |
| 2217.00† | 5.525 | 111.120 | 2214.52 | -16.69 | -20.09 | 52.00 | 40°05'18.182"N | 104°40'13.945"W | 0.00 | |
| 2317.00† | 5.525 | 111.120 | 2314.06 | -19.57 | -23.56 | 60.98 | 40°05'18.147"N | 104°40'13.829"W | 0.00 | |
| 2417.00† | 5.525 | 111.120 | 2413.60 | -22.46 | -27.02 | 69.96 | 40°05'18.113"N | 104°40'13.714"W | 0.00 | |
| 2517.00† | 5.525 | 111.120 | 2513.13 | -25.34 | -30.49 | 78.94 | 40°05'18.079"N | 104°40'13.598"W | 0.00 | |
| 2617.00† | 5.525 | 111.120 | 2612.67 | -28.22 | -33.96 | 87.93 | 40°05'18.044"N | 104°40'13.483"W | 0.00 | |
| 2717.00† | 5.525 | 111.120 | 2712.20 | -31.11 | -37.43 | 96.91 | 40°05'18.010"N | 104°40'13.367"W | 0.00 | |
| 2817.00† | 5.525 | 111.120 | 2811.74 | -33.99 | -40.90 | 105.89 | 40°05'17.976"N | 104°40'13.252"W | 0.00 | |
| 2917.00† | 5.525 | 111.120 | 2911.27 | -36.87 | -44.37 | 114.87 | 40°05'17.942"N | 104°40'13.136"W | 0.00 | |
| 3017.00† | 5.525 | 111.120 | 3010.81 | -39.75 | -47.84 | 123.85 | 40°05'17.907"N | 104°40'13.021"W | 0.00 | |
| 3117.00† | 5.525 | 111.120 | 3110.34 | -42.64 | -51.31 | 132.83 | 40°05'17.873"N | 104°40'12.905"W | 0.00 | |
| 3217.00† | 5.525 | 111.120 | 3209.88 | -45.52 | -54.78 | 141.81 | 40°05'17.839"N | 104°40'12.789"W | 0.00 | |
| 3317.00† | 5.525 | 111.120 | 3309.41 | -48.40 | -58.25 | 150.79 | 40°05'17.804"N | 104°40'12.674"W | 0.00 | |
| 3417.00† | 5.525 | 111.120 | 3408.95 | -51.29 | -61.72 | 159.78 | 40°05'17.770"N | 104°40'12.558"W | 0.00 | |
| 3517.00† | 5.525 | 111.120 | 3508.49 | -54.17 | -65.19 | 168.76 | 40°05'17.736"N | 104°40'12.443"W | 0.00 | |
| 3617.00† | 5.525 | 111.120 | 3608.02 | -57.05 | -68.65 | 177.74 | 40°05'17.702"N | 104°40'12.327"W | 0.00 | |
| 3717.00† | 5.525 | 111.120 | 3707.56 | -59.93 | -72.12 | 186.72 | 40°05'17.667"N | 104°40'12.212"W | 0.00 | |
| 3817.00† | 5.525 | 111.120 | 3807.09 | -62.82 | -75.59 | 195.70 | 40°05'17.633"N | 104°40'12.096"W | 0.00 | |
| 3917.00† | 5.525 | 111.120 | 3906.63 | -65.70 | -79.06 | 204.68 | 40°05'17.599"N | 104°40'11.981"W | 0.00 | |
| 4017.00† | 5.525 | 111.120 | 4006.16 | -68.58 | -82.53 | 213.66 | 40°05'17.564"N | 104°40'11.865"W | 0.00 | |



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| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R65W | | |

WELLPATH DATA (153 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|--------------------|
| 4117.00† | 5.525 | 111.120 | 4105.70 | -71.46 | -86.00 | 222.64 | 40°05'17.530"N | 104°40'11.749"W | 0.00 | |
| 4217.00† | 5.525 | 111.120 | 4205.23 | -74.35 | -89.47 | 231.63 | 40°05'17.496"N | 104°40'11.634"W | 0.00 | |
| 4317.00† | 5.525 | 111.120 | 4304.77 | -77.23 | -92.94 | 240.61 | 40°05'17.462"N | 104°40'11.518"W | 0.00 | |
| 4417.00† | 5.525 | 111.120 | 4404.30 | -80.11 | -96.41 | 249.59 | 40°05'17.427"N | 104°40'11.403"W | 0.00 | |
| 4517.00† | 5.525 | 111.120 | 4503.84 | -83.00 | -99.88 | 258.57 | 40°05'17.393"N | 104°40'11.287"W | 0.00 | |
| 4617.00† | 5.525 | 111.120 | 4603.37 | -85.88 | -103.35 | 267.55 | 40°05'17.359"N | 104°40'11.172"W | 0.00 | |
| 4717.00† | 5.525 | 111.120 | 4702.91 | -88.76 | -106.82 | 276.53 | 40°05'17.324"N | 104°40'11.056"W | 0.00 | |
| 4817.00† | 5.525 | 111.120 | 4802.45 | -91.64 | -110.28 | 285.51 | 40°05'17.290"N | 104°40'10.941"W | 0.00 | |
| 4917.00† | 5.525 | 111.120 | 4901.98 | -94.53 | -113.75 | 294.49 | 40°05'17.256"N | 104°40'10.825"W | 0.00 | |
| 4958.21† | 5.525 | 111.120 | 4943.00 | -95.72 | -115.18 | 298.20 | 40°05'17.242"N | 104°40'10.777"W | 0.00 | SUSSEX |
| 5017.00† | 5.525 | 111.120 | 5001.52 | -97.41 | -117.22 | 303.48 | 40°05'17.222"N | 104°40'10.709"W | 0.00 | |
| 5117.00† | 5.525 | 111.120 | 5101.05 | -100.29 | -120.69 | 312.46 | 40°05'17.187"N | 104°40'10.594"W | 0.00 | |
| 5217.00† | 5.525 | 111.120 | 5200.59 | -103.18 | -124.16 | 321.44 | 40°05'17.153"N | 104°40'10.478"W | 0.00 | |
| 5317.00† | 5.525 | 111.120 | 5300.12 | -106.06 | -127.63 | 330.42 | 40°05'17.119"N | 104°40'10.363"W | 0.00 | |
| 5417.00† | 5.525 | 111.120 | 5399.66 | -108.94 | -131.10 | 339.40 | 40°05'17.084"N | 104°40'10.247"W | 0.00 | |
| 5517.00† | 5.525 | 111.120 | 5499.19 | -111.82 | -134.57 | 348.38 | 40°05'17.050"N | 104°40'10.132"W | 0.00 | |
| 5617.00† | 5.525 | 111.120 | 5598.73 | -114.71 | -138.04 | 357.36 | 40°05'17.016"N | 104°40'10.016"W | 0.00 | |
| 5717.00† | 5.525 | 111.120 | 5698.26 | -117.59 | -141.51 | 366.34 | 40°05'16.982"N | 104°40'09.901"W | 0.00 | |
| 5817.00† | 5.525 | 111.120 | 5797.80 | -120.47 | -144.98 | 375.33 | 40°05'16.947"N | 104°40'09.785"W | 0.00 | |
| 5917.00† | 5.525 | 111.120 | 5897.34 | -123.36 | -148.45 | 384.31 | 40°05'16.913"N | 104°40'09.669"W | 0.00 | |
| 6017.00† | 5.525 | 111.120 | 5996.87 | -126.24 | -151.92 | 393.29 | 40°05'16.879"N | 104°40'09.554"W | 0.00 | |
| 6117.00† | 5.525 | 111.120 | 6096.41 | -129.12 | -155.38 | 402.27 | 40°05'16.844"N | 104°40'09.438"W | 0.00 | |
| 6217.00† | 5.525 | 111.120 | 6195.94 | -132.00 | -158.85 | 411.25 | 40°05'16.810"N | 104°40'09.323"W | 0.00 | |
| 6317.00† | 5.525 | 111.120 | 6295.48 | -134.89 | -162.32 | 420.23 | 40°05'16.776"N | 104°40'09.207"W | 0.00 | |
| 6417.00† | 5.525 | 111.120 | 6395.01 | -137.77 | -165.79 | 429.21 | 40°05'16.742"N | 104°40'09.092"W | 0.00 | |
| 6478.68 | 5.525 | 111.120 | 6456.41 | -139.55 | -167.93 | 434.75 | 40°05'16.720"N | 104°40'09.020"W | 0.00 | End of Tangent (J) |
| 6517.00† | 5.464 | 70.252 | 6494.56 | -139.37 | -167.98 | 438.19 | 40°05'16.720"N | 104°40'08.976"W | 10.00 | |
| 6617.00† | 12.887 | 23.034 | 6593.33 | -126.93 | -156.08 | 447.06 | 40°05'16.838"N | 104°40'08.862"W | 10.00 | |
| 6717.00† | 22.399 | 12.465 | 6688.54 | -97.50 | -127.14 | 455.56 | 40°05'17.124"N | 104°40'08.753"W | 10.00 | |
| 6817.00† | 32.200 | 8.063 | 6777.30 | -51.99 | -82.04 | 463.43 | 40°05'17.569"N | 104°40'08.651"W | 10.00 | |
| 6917.00† | 42.087 | 5.561 | 6856.92 | 8.23 | -22.15 | 470.43 | 40°05'18.161"N | 104°40'08.561"W | 10.00 | |
| 7012.19† | 51.533 | 3.940 | 6922.00 | 77.54 | 46.94 | 476.09 | 40°05'18.844"N | 104°40'08.488"W | 10.00 | SHARON SPRINGS |
| 7017.00† | 52.011 | 3.870 | 6924.97 | 81.31 | 50.70 | 476.35 | 40°05'18.881"N | 104°40'08.485"W | 10.00 | |
| 7061.53† | 56.436 | 3.262 | 6951.00 | 117.43 | 86.75 | 478.59 | 40°05'19.237"N | 104°40'08.456"W | 10.00 | NIOBRARA A |
| 7117.00† | 61.953 | 2.586 | 6979.40 | 165.05 | 134.32 | 481.02 | 40°05'19.707"N | 104°40'08.425"W | 10.00 | |
| 7217.00† | 71.905 | 1.522 | 7018.54 | 256.90 | 226.14 | 484.28 | 40°05'20.615"N | 104°40'08.383"W | 10.00 | |
| 7231.96† | 73.395 | 1.374 | 7023.00 | 271.17 | 240.42 | 484.64 | 40°05'20.756"N | 104°40'08.378"W | 10.00 | NIOBRARA B |
| 7317.00† | 81.862 | 0.572 | 7041.20 | 354.06 | 323.39 | 486.04 | 40°05'21.576"N | 104°40'08.360"W | 10.00 | |
| 7398.71 | 90.000 | 359.834 | 7047.00 | 435.34 | 404.83 | 486.32 | 40°05'22.381"N | 104°40'08.357"W | 10.00 | End of 3D Arc |
| 7417.00† | 90.000 | 359.834 | 7047.00 | 453.59 | 423.12 | 486.27 | 40°05'22.561"N | 104°40'08.357"W | 0.00 | |
| 7517.00† | 90.000 | 359.834 | 7047.00 | 553.37 | 523.12 | 485.98 | 40°05'23.549"N | 104°40'08.361"W | 0.00 | |
| 7617.00† | 90.000 | 359.834 | 7047.00 | 653.14 | 623.12 | 485.69 | 40°05'24.538"N | 104°40'08.365"W | 0.00 | |
| 7717.00† | 90.000 | 359.834 | 7047.00 | 752.91 | 723.12 | 485.40 | 40°05'25.526"N | 104°40'08.369"W | 0.00 | |
| 7817.00† | 90.000 | 359.834 | 7047.00 | 852.68 | 823.12 | 485.11 | 40°05'26.514"N | 104°40'08.372"W | 0.00 | |
| 7917.00† | 90.000 | 359.834 | 7047.00 | 952.46 | 923.12 | 484.82 | 40°05'27.502"N | 104°40'08.376"W | 0.00 | |



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| | | | |
|----------|---------------------------------|----------|---|
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| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
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|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|----------|
| 8017.00† | 90.000 | 359.834 | 7047.00 | 1052.23 | 1023.12 | 484.53 | 40°05'28.491"N | 104°40'08.380"W | 0.00 | |
| 8117.00† | 90.000 | 359.834 | 7047.00 | 1152.00 | 1123.11 | 484.24 | 40°05'29.479"N | 104°40'08.383"W | 0.00 | |
| 8217.00† | 90.000 | 359.834 | 7047.00 | 1251.78 | 1223.11 | 483.95 | 40°05'30.467"N | 104°40'08.387"W | 0.00 | |
| 8317.00† | 90.000 | 359.834 | 7047.00 | 1351.55 | 1323.11 | 483.66 | 40°05'31.455"N | 104°40'08.391"W | 0.00 | |
| 8417.00† | 90.000 | 359.834 | 7047.00 | 1451.32 | 1423.11 | 483.37 | 40°05'32.443"N | 104°40'08.394"W | 0.00 | |
| 8517.00† | 90.000 | 359.834 | 7047.00 | 1551.09 | 1523.11 | 483.08 | 40°05'33.432"N | 104°40'08.398"W | 0.00 | |
| 8617.00† | 90.000 | 359.834 | 7047.00 | 1650.87 | 1623.11 | 482.80 | 40°05'34.420"N | 104°40'08.402"W | 0.00 | |
| 8717.00† | 90.000 | 359.834 | 7047.00 | 1750.64 | 1723.11 | 482.51 | 40°05'35.408"N | 104°40'08.406"W | 0.00 | |
| 8817.00† | 90.000 | 359.834 | 7047.00 | 1850.41 | 1823.11 | 482.22 | 40°05'36.396"N | 104°40'08.409"W | 0.00 | |
| 8917.00† | 90.000 | 359.834 | 7047.00 | 1950.19 | 1923.11 | 481.93 | 40°05'37.384"N | 104°40'08.413"W | 0.00 | |
| 9017.00† | 90.000 | 359.834 | 7047.00 | 2049.96 | 2023.11 | 481.64 | 40°05'38.373"N | 104°40'08.417"W | 0.00 | |
| 9117.00† | 90.000 | 359.834 | 7047.00 | 2149.73 | 2123.11 | 481.35 | 40°05'39.361"N | 104°40'08.420"W | 0.00 | |
| 9217.00† | 90.000 | 359.834 | 7047.00 | 2249.50 | 2223.11 | 481.06 | 40°05'40.349"N | 104°40'08.424"W | 0.00 | |
| 9317.00† | 90.000 | 359.834 | 7047.00 | 2349.28 | 2323.11 | 480.77 | 40°05'41.337"N | 104°40'08.428"W | 0.00 | |
| 9417.00† | 90.000 | 359.834 | 7047.00 | 2449.05 | 2423.11 | 480.48 | 40°05'42.326"N | 104°40'08.431"W | 0.00 | |
| 9517.00† | 90.000 | 359.834 | 7047.00 | 2548.82 | 2523.11 | 480.19 | 40°05'43.314"N | 104°40'08.435"W | 0.00 | |
| 9617.00† | 90.000 | 359.834 | 7047.00 | 2648.59 | 2623.11 | 479.90 | 40°05'44.302"N | 104°40'08.439"W | 0.00 | |
| 9717.00† | 90.000 | 359.834 | 7047.00 | 2748.37 | 2723.11 | 479.61 | 40°05'45.290"N | 104°40'08.443"W | 0.00 | |
| 9817.00† | 90.000 | 359.834 | 7047.00 | 2848.14 | 2823.11 | 479.32 | 40°05'46.278"N | 104°40'08.446"W | 0.00 | |
| 9917.00† | 90.000 | 359.834 | 7047.00 | 2947.91 | 2923.11 | 479.03 | 40°05'47.267"N | 104°40'08.450"W | 0.00 | |
| 10017.00† | 90.000 | 359.834 | 7047.00 | 3047.69 | 3023.11 | 478.74 | 40°05'48.255"N | 104°40'08.454"W | 0.00 | |
| 10117.00† | 90.000 | 359.834 | 7047.00 | 3147.46 | 3123.11 | 478.45 | 40°05'49.243"N | 104°40'08.457"W | 0.00 | |
| 10217.00† | 90.000 | 359.834 | 7047.00 | 3247.23 | 3223.11 | 478.16 | 40°05'50.231"N | 104°40'08.461"W | 0.00 | |
| 10317.00† | 90.000 | 359.834 | 7047.00 | 3347.00 | 3323.11 | 477.87 | 40°05'51.219"N | 104°40'08.465"W | 0.00 | |
| 10417.00† | 90.000 | 359.834 | 7047.00 | 3446.78 | 3423.11 | 477.58 | 40°05'52.208"N | 104°40'08.468"W | 0.00 | |
| 10517.00† | 90.000 | 359.834 | 7047.00 | 3546.55 | 3523.10 | 477.30 | 40°05'53.196"N | 104°40'08.472"W | 0.00 | |
| 10617.00† | 90.000 | 359.834 | 7047.00 | 3646.32 | 3623.10 | 477.01 | 40°05'54.184"N | 104°40'08.476"W | 0.00 | |
| 10717.00† | 90.000 | 359.834 | 7047.00 | 3746.10 | 3723.10 | 476.72 | 40°05'55.172"N | 104°40'08.480"W | 0.00 | |
| 10817.00† | 90.000 | 359.834 | 7047.00 | 3845.87 | 3823.10 | 476.43 | 40°05'56.160"N | 104°40'08.483"W | 0.00 | |
| 10917.00† | 90.000 | 359.834 | 7047.00 | 3945.64 | 3923.10 | 476.14 | 40°05'57.149"N | 104°40'08.487"W | 0.00 | |
| 11017.00† | 90.000 | 359.834 | 7047.00 | 4045.41 | 4023.10 | 475.85 | 40°05'58.137"N | 104°40'08.491"W | 0.00 | |
| 11117.00† | 90.000 | 359.834 | 7047.00 | 4145.19 | 4123.10 | 475.56 | 40°05'59.125"N | 104°40'08.494"W | 0.00 | |
| 11217.00† | 90.000 | 359.834 | 7047.00 | 4244.96 | 4223.10 | 475.27 | 40°06'00.113"N | 104°40'08.498"W | 0.00 | |
| 11317.00† | 90.000 | 359.834 | 7047.00 | 4344.73 | 4323.10 | 474.98 | 40°06'01.102"N | 104°40'08.502"W | 0.00 | |
| 11417.00† | 90.000 | 359.834 | 7047.00 | 4444.51 | 4423.10 | 474.69 | 40°06'02.090"N | 104°40'08.505"W | 0.00 | |
| 11517.00† | 90.000 | 359.834 | 7047.00 | 4544.28 | 4523.10 | 474.40 | 40°06'03.078"N | 104°40'08.509"W | 0.00 | |
| 11617.00† | 90.000 | 359.834 | 7047.00 | 4644.05 | 4623.10 | 474.11 | 40°06'04.066"N | 104°40'08.513"W | 0.00 | |
| 11717.00† | 90.000 | 359.834 | 7047.00 | 4743.82 | 4723.10 | 473.82 | 40°06'05.054"N | 104°40'08.516"W | 0.00 | |
| 11817.00† | 90.000 | 359.834 | 7047.00 | 4843.60 | 4823.10 | 473.54 | 40°06'06.043"N | 104°40'08.520"W | 0.00 | |
| 11917.00† | 90.000 | 359.834 | 7047.00 | 4943.37 | 4923.10 | 473.25 | 40°06'07.031"N | 104°40'08.524"W | 0.00 | |
| 12017.00† | 90.000 | 359.834 | 7047.00 | 5043.14 | 5023.10 | 472.96 | 40°06'08.019"N | 104°40'08.528"W | 0.00 | |
| 12117.00† | 90.000 | 359.834 | 7047.00 | 5142.91 | 5123.10 | 472.67 | 40°06'09.007"N | 104°40'08.531"W | 0.00 | |
| 12217.00† | 90.000 | 359.834 | 7047.00 | 5242.69 | 5223.10 | 472.38 | 40°06'09.995"N | 104°40'08.535"W | 0.00 | |
| 12317.00† | 90.000 | 359.834 | 7047.00 | 5342.46 | 5323.10 | 472.09 | 40°06'10.984"N | 104°40'08.539"W | 0.00 | |
| 12417.00† | 90.000 | 359.834 | 7047.00 | 5442.23 | 5423.10 | 471.80 | 40°06'11.972"N | 104°40'08.542"W | 0.00 | |



Planned Wellpath Report

GITTLEIN 3N-28HZ (PERMIT) PWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) |
| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R65W | | |

WELLPATH DATA (153 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|----------------------|-------------------|---------------|--------------|----------------|-----------------|------------------|---------------|
| 12517.00† | 90.000 | 359.834 | 7047.00 | 5542.01 | 5523.10 | 471.51 | 40°06'12.960"N | 104°40'08.546"W | 0.00 | |
| 12617.00† | 90.000 | 359.834 | 7047.00 | 5641.78 | 5623.10 | 471.22 | 40°06'13.948"N | 104°40'08.550"W | 0.00 | |
| 12717.00† | 90.000 | 359.834 | 7047.00 | 5741.55 | 5723.10 | 470.93 | 40°06'14.937"N | 104°40'08.553"W | 0.00 | |
| 12817.00† | 90.000 | 359.834 | 7047.00 | 5841.32 | 5823.10 | 470.64 | 40°06'15.925"N | 104°40'08.557"W | 0.00 | |
| 12917.00† | 90.000 | 359.834 | 7047.00 | 5941.10 | 5923.09 | 470.36 | 40°06'16.913"N | 104°40'08.561"W | 0.00 | |
| 13017.00† | 90.000 | 359.834 | 7047.00 | 6040.87 | 6023.09 | 470.07 | 40°06'17.901"N | 104°40'08.565"W | 0.00 | |
| 13117.00† | 90.000 | 359.834 | 7047.00 | 6140.64 | 6123.09 | 469.78 | 40°06'18.889"N | 104°40'08.568"W | 0.00 | |
| 13217.00† | 90.000 | 359.834 | 7047.00 | 6240.42 | 6223.09 | 469.49 | 40°06'19.878"N | 104°40'08.572"W | 0.00 | |
| 13317.00† | 90.000 | 359.834 | 7047.00 | 6340.19 | 6323.09 | 469.20 | 40°06'20.866"N | 104°40'08.576"W | 0.00 | |
| 13417.00† | 90.000 | 359.834 | 7047.00 | 6439.96 | 6423.09 | 468.91 | 40°06'21.854"N | 104°40'08.579"W | 0.00 | |
| 13517.00† | 90.000 | 359.834 | 7047.00 | 6539.73 | 6523.09 | 468.62 | 40°06'22.842"N | 104°40'08.583"W | 0.00 | |
| 13617.00† | 90.000 | 359.834 | 7047.00 | 6639.51 | 6623.09 | 468.33 | 40°06'23.830"N | 104°40'08.587"W | 0.00 | |
| 13717.00† | 90.000 | 359.834 | 7047.00 | 6739.28 | 6723.09 | 468.04 | 40°06'24.819"N | 104°40'08.590"W | 0.00 | |
| 13817.00† | 90.000 | 359.834 | 7047.00 | 6839.05 | 6823.09 | 467.75 | 40°06'25.807"N | 104°40'08.594"W | 0.00 | |
| 13917.00† | 90.000 | 359.834 | 7047.00 | 6938.83 | 6923.09 | 467.47 | 40°06'26.795"N | 104°40'08.598"W | 0.00 | |
| 14017.00† | 90.000 | 359.834 | 7047.00 | 7038.60 | 7023.09 | 467.18 | 40°06'27.783"N | 104°40'08.601"W | 0.00 | |
| 14117.00† | 90.000 | 359.834 | 7047.00 | 7138.37 | 7123.09 | 466.89 | 40°06'28.771"N | 104°40'08.605"W | 0.00 | |
| 14214.97 | 90.000 | 359.834 | 7047.00 ¹ | 7236.12 | 7221.06 | 466.60 | 40°06'29.740"N | 104°40'08.609"W | 0.00 | End of 3D Arc |

HOLE & CASING SECTIONS - Ref Wellbore: GITTLEIN 3N-28HZ PWB Ref Wellpath: GITTLEIN 3N-28HZ (PERMIT) 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] |
|-------------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| 12.25in Open Hole | 17.00 | 1300.00 | 1283.00 | 17.00 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.625in Casing Surface | 17.00 | 1300.00 | 1283.00 | 17.00 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8.75in Open Hole | 17.00 | 7398.71 | 7381.71 | 17.00 | 7047.00 | 0.00 | 0.00 | 404.83 | 486.32 |
| 7in Casing Intermediate | 17.00 | 7398.71 | 7381.71 | 17.00 | 7047.00 | 0.00 | 0.00 | 404.83 | 486.32 |
| 6.125in Open Hole | 7398.71 | 14214.97 | 6816.26 | 7047.00 | 7047.00 | 404.83 | 486.32 | 7221.06 | 466.60 |
| 4.5in Casing Production | 17.00 | 14214.97 | 14197.97 | 17.00 | 7047.00 | 0.00 | 0.00 | 7221.06 | 466.60 |



Planned Wellpath Report

GITTLEIN 3N-28HZ (PERMIT) PWP

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**REFERENCE WELLPATH IDENTIFICATION**

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) |
| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R65W | | |

TARGETS

| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
|---|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|---------|
| GITTLEIN 4 PAD SECTION 28 LINES | | -6.00 | -59.68 | -974.80 | 3231045.24 | 1276079.08 | 40°05'17.790"N | 104°40'27.156"W | polygon |
| GITTLEIN 4 PAD SECTION 33 LINES | | -6.00 | -59.68 | -974.80 | 3231045.24 | 1276079.08 | 40°05'17.790"N | 104°40'27.156"W | polygon |
| 1) GITTLEIN 3N-28HZ BHL ON PLAT (2178'FSL & 2600'FWL, SEC.28) REV-1 | 14214.97 | 7047.00 | 7221.06 | 466.60 | 3232418.43 | 1283372.68 | 40°06'29.740"N | 104°40'08.609"W | point |
| GITTLEIN 4 PAD SEC. 28 HARDLINES (460'SETBACKS) | | 7294.00 | -59.68 | -974.80 | 3231045.24 | 1276079.08 | 40°05'17.790"N | 104°40'27.156"W | polygon |
| GITTLEIN 4 PAD SEC. 33 HARDLINES (460'SETBACKS) | | 7294.00 | -59.68 | -974.80 | 3231045.24 | 1276079.08 | 40°05'17.790"N | 104°40'27.156"W | polygon |

SURVEY PROGRAM - Ref Wellbore: GITTLEIN 3N-28HZ PWB Ref Wellpath: GITTLEIN 3N-28HZ (PERMIT) PWP

| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|------------------|----------------|------------------------------|------------------|----------------------|
| 17.00 | 7398.71 | NaviTrak (Standard) | | GITTLEIN 3N-28HZ PWB |
| 7398.71 | 14214.97 | OnTrak (Standard) | | GITTLEIN 3N-28HZ PWB |



Planned Wellpath Report
GITTLEIN 3N-28HZ (PERMIT) PWP
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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#08 GITTLEIN 3N-28HZ (223'FSL & 2113'FWL, SEC.33) |
| Area | COLORADO | Well | GITTLEIN 3N-28HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | GITTLEIN 3N-28HZ PWB |
| Facility | SEC.33-T2N-R65W | | |

| WELLPATH COMMENTS | | | | |
|-------------------|--------------------|----------------|-------------|----------------|
| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
| 750.00 | 0.000 | 111.120 | 750.00 | FOX HILLS |
| 4958.21 | 5.525 | 111.120 | 4943.00 | SUSSEX |
| 7012.19 | 51.533 | 3.940 | 6922.00 | SHARON SPRINGS |
| 7061.53 | 56.436 | 3.262 | 6951.00 | NIOBRARA A |
| 7231.96 | 73.395 | 1.374 | 7023.00 | NIOBRARA B |