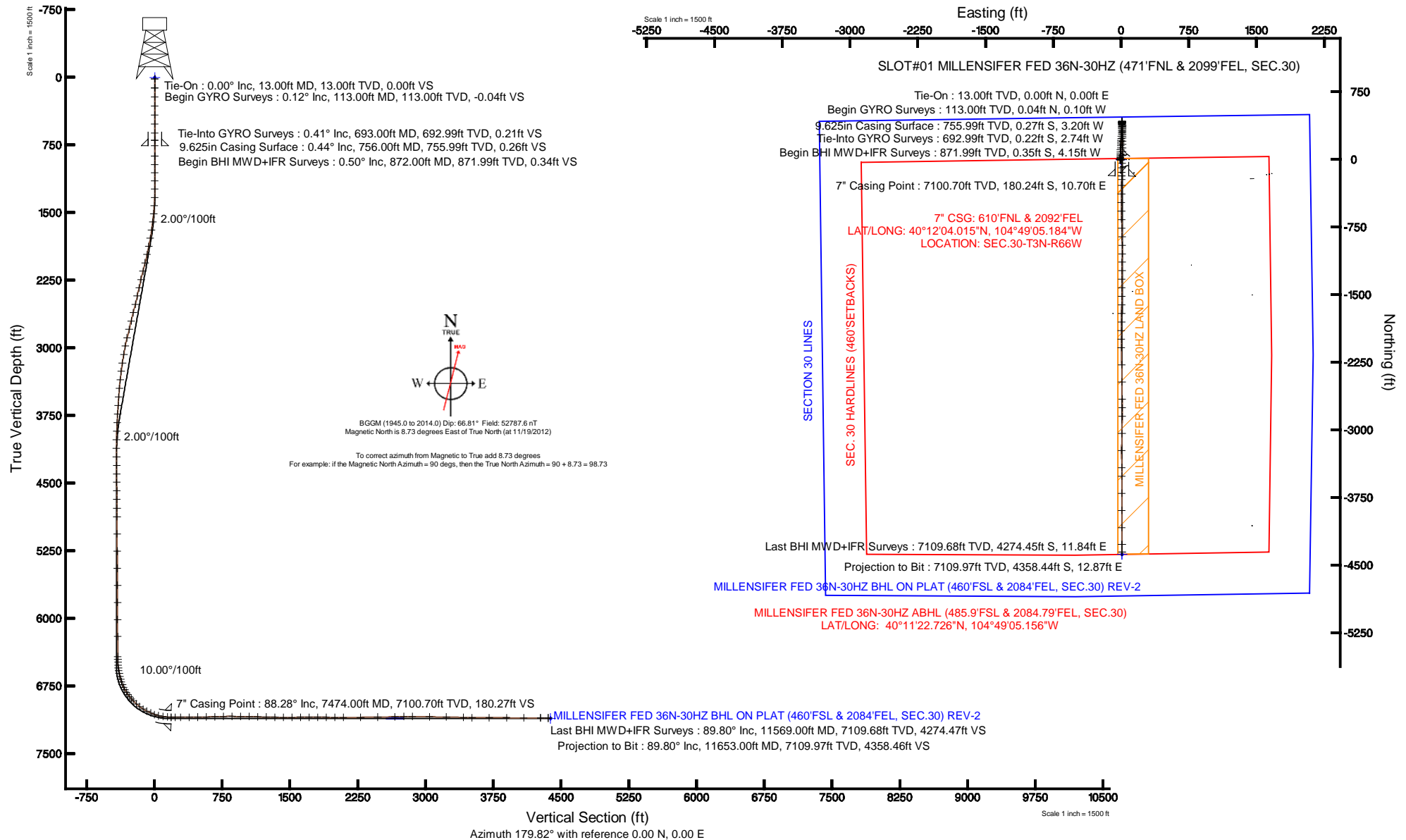


KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)
Field: WELD COUNTY (KERR MCGEE) Well: MILLENSIFER FED 36N-30HZ
Facility: SEC.30-T3N-R66W Wellbore: MILLENSIFER FED 36N-30HZ PWB

Plot reference wellpath is MILLENSIFER FED 36N-30HZ (REV-B.0) PWP

| | |
|---|--|
| True vertical depths are referenced to ENSIGN 138 (RKB) | Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet |
| Measured depths are referenced to ENSIGN 138 (RKB) | North Reference: True north |
| ENSGN 138 (RKB) to Mean Sea Level: 4840 feet | Scale: True distance |
| Mean Sea Level to Mud line (At Slot: SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: wlsjef02 on 1/24/2013 |





Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-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 | Wilsjef02 |
| Scale | 0.999957 | Report Generated | 1/24/2013 at 15:06:55 |
| Convergence at slot | 0.44° East | Database/Source file | WellArchitectDB/MILLENSIFER_FED_36N-30HZ_AWP.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[US ft] | Northing[US ft] | Latitude | Longitude |
| Slot Location | 0.40 | -89.93 | 3190457.53 | 1317021.21 | 40°12'05.796"N | 104°49'05.322"W |
| Facility Reference Pt | | | 3190547.45 | 1317021.50 | 40°12'05.792"N | 104°49'04.163"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | | |
|--------------------------|-------------------|--|-------------------|
| Calculation method | Minimum curvature | ENSIGN 138 (RKB) to Facility Vertical Datum | 4840.00ft |
| Horizontal Reference Pt | Slot | ENSIGN 138 (RKB) to Mean Sea Level | 4840.00ft |
| Vertical Reference Pt | ENSIGN 138 (RKB) | ENSIGN 138 (RKB) to Mud Line at Slot (SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30)) | 4840.00ft |
| MD Reference Pt | ENSIGN 138 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 179.83° |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

WELLPATH DATA (123 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 | 291.910 | 0.00 | 0.00 | 0.00 | 0.00 | 40°12'05.796"N | 104°49'05.322"W | 0.00 | |
| 13.00 | 0.000 | 291.910 | 13.00 | 0.00 | 0.00 | 0.00 | 40°12'05.796"N | 104°49'05.322"W | 0.00 | Tie-On |
| 113.00 | 0.120 | 291.910 | 113.00 | -0.04 | 0.04 | -0.10 | 40°12'05.796"N | 104°49'05.323"W | 0.12 | Begin GYRO Surveys |
| 213.00 | 0.250 | 266.990 | 213.00 | -0.07 | 0.07 | -0.41 | 40°12'05.797"N | 104°49'05.327"W | 0.15 | |
| 313.00 | 0.230 | 280.150 | 313.00 | -0.09 | 0.09 | -0.83 | 40°12'05.797"N | 104°49'05.333"W | 0.06 | |
| 413.00 | 0.270 | 228.360 | 413.00 | 0.03 | -0.03 | -1.20 | 40°12'05.796"N | 104°49'05.337"W | 0.22 | |
| 513.00 | 0.330 | 267.640 | 513.00 | 0.19 | -0.20 | -1.67 | 40°12'05.794"N | 104°49'05.343"W | 0.21 | |
| 613.00 | 0.320 | 273.360 | 613.00 | 0.19 | -0.19 | -2.23 | 40°12'05.794"N | 104°49'05.351"W | 0.03 | |
| 693.00 | 0.410 | 263.030 | 692.99 | 0.21 | -0.22 | -2.74 | 40°12'05.794"N | 104°49'05.357"W | 0.14 | Tie-Into GYRO Surveys |
| 872.00 | 0.500 | 265.900 | 871.99 | 0.34 | -0.35 | -4.15 | 40°12'05.793"N | 104°49'05.376"W | 0.05 | Begin BHI MWD+IFR Surveys |
| 963.00 | 0.500 | 271.600 | 962.98 | 0.35 | -0.37 | -4.95 | 40°12'05.792"N | 104°49'05.386"W | 0.05 | |
| 1055.00 | 0.500 | 272.700 | 1054.98 | 0.32 | -0.34 | -5.75 | 40°12'05.793"N | 104°49'05.396"W | 0.01 | |
| 1146.00 | 0.500 | 264.100 | 1145.98 | 0.34 | -0.36 | -6.54 | 40°12'05.792"N | 104°49'05.406"W | 0.08 | |
| 1238.00 | 0.700 | 284.400 | 1237.97 | 0.24 | -0.26 | -7.48 | 40°12'05.793"N | 104°49'05.418"W | 0.31 | |
| 1329.00 | 2.000 | 340.900 | 1328.95 | -1.40 | 1.38 | -8.54 | 40°12'05.810"N | 104°49'05.432"W | 1.89 | |
| 1421.00 | 3.900 | 5.600 | 1420.83 | -6.04 | 6.01 | -8.76 | 40°12'05.855"N | 104°49'05.435"W | 2.44 | |
| 1512.00 | 5.400 | 9.100 | 1511.52 | -13.34 | 13.32 | -7.78 | 40°12'05.928"N | 104°49'05.422"W | 1.68 | |
| 1603.00 | 7.000 | 5.700 | 1601.99 | -23.08 | 23.06 | -6.55 | 40°12'06.024"N | 104°49'05.406"W | 1.80 | |
| 1695.00 | 8.400 | 4.700 | 1693.16 | -35.36 | 35.34 | -5.45 | 40°12'06.145"N | 104°49'05.392"W | 1.53 | |
| 1786.00 | 10.000 | 4.800 | 1782.98 | -49.85 | 49.84 | -4.24 | 40°12'06.289"N | 104°49'05.377"W | 1.76 | |
| 1877.00 | 11.400 | 1.100 | 1872.40 | -66.72 | 66.71 | -3.41 | 40°12'06.455"N | 104°49'05.366"W | 1.71 | |
| 1971.00 | 12.600 | 0.700 | 1964.34 | -86.25 | 86.25 | -3.10 | 40°12'06.648"N | 104°49'05.362"W | 1.28 | |
| 2065.00 | 13.800 | 0.800 | 2055.86 | -107.72 | 107.71 | -2.82 | 40°12'06.860"N | 104°49'05.358"W | 1.28 | |
| 2161.00 | 13.700 | 3.200 | 2149.11 | -130.51 | 130.51 | -2.03 | 40°12'07.086"N | 104°49'05.348"W | 0.60 | |
| 2255.00 | 13.500 | 0.800 | 2240.47 | -152.60 | 152.59 | -1.25 | 40°12'07.304"N | 104°49'05.338"W | 0.64 | |
| 2350.00 | 12.300 | 5.000 | 2333.08 | -173.76 | 173.76 | -0.22 | 40°12'07.513"N | 104°49'05.325"W | 1.60 | |
| 2444.00 | 13.000 | 1.600 | 2424.79 | -194.30 | 194.31 | 0.95 | 40°12'07.716"N | 104°49'05.310"W | 1.09 | |
| 2539.00 | 12.800 | 4.500 | 2517.40 | -215.47 | 215.48 | 2.08 | 40°12'07.925"N | 104°49'05.295"W | 0.71 | |
| 2634.00 | 14.100 | 4.200 | 2609.79 | -237.50 | 237.51 | 3.75 | 40°12'08.143"N | 104°49'05.274"W | 1.37 | |
| 2729.00 | 14.400 | 4.600 | 2701.87 | -260.81 | 260.83 | 5.54 | 40°12'08.373"N | 104°49'05.251"W | 0.33 | |
| 2825.00 | 14.000 | 3.800 | 2794.93 | -284.29 | 284.31 | 7.27 | 40°12'08.606"N | 104°49'05.228"W | 0.46 | |
| 2921.00 | 13.500 | 3.300 | 2888.18 | -307.06 | 307.09 | 8.69 | 40°12'08.831"N | 104°49'05.210"W | 0.54 | |
| 3016.00 | 10.600 | 359.700 | 2981.08 | -326.87 | 326.90 | 9.28 | 40°12'09.026"N | 104°49'05.202"W | 3.15 | |
| 3110.00 | 9.900 | 357.200 | 3073.58 | -343.59 | 343.61 | 8.84 | 40°12'09.192"N | 104°49'05.208"W | 0.88 | |
| 3205.00 | 8.600 | 3.500 | 3167.35 | -358.83 | 358.86 | 8.87 | 40°12'09.342"N | 104°49'05.208"W | 1.73 | |
| 3300.00 | 7.400 | 2.400 | 3261.42 | -372.04 | 372.07 | 9.56 | 40°12'09.473"N | 104°49'05.199"W | 1.27 | |
| 3395.00 | 6.300 | 359.700 | 3355.74 | -383.36 | 383.39 | 9.79 | 40°12'09.585"N | 104°49'05.196"W | 1.21 | |
| 3490.00 | 4.900 | 359.800 | 3450.28 | -392.63 | 392.66 | 9.75 | 40°12'09.676"N | 104°49'05.196"W | 1.47 | |
| 3585.00 | 4.300 | 357.500 | 3544.98 | -400.25 | 400.28 | 9.58 | 40°12'09.752"N | 104°49'05.199"W | 0.66 | |
| 3680.00 | 3.200 | 8.200 | 3639.77 | -406.43 | 406.46 | 9.80 | 40°12'09.813"N | 104°49'05.196"W | 1.37 | |
| 3775.00 | 3.300 | 7.200 | 3734.62 | -411.76 | 411.80 | 10.52 | 40°12'09.865"N | 104°49'05.186"W | 0.12 | |
| 3871.00 | 2.800 | 10.000 | 3830.49 | -416.81 | 416.85 | 11.28 | 40°12'09.915"N | 104°49'05.177"W | 0.54 | |
| 3965.00 | 2.600 | 6.200 | 3924.38 | -421.19 | 421.23 | 11.91 | 40°12'09.959"N | 104°49'05.169"W | 0.29 | |
| 4060.00 | 0.600 | 2.500 | 4019.34 | -423.83 | 423.87 | 12.16 | 40°12'09.985"N | 104°49'05.165"W | 2.11 | |
| 4155.00 | 0.200 | 108.500 | 4114.34 | -424.27 | 424.31 | 12.34 | 40°12'09.989"N | 104°49'05.163"W | 0.72 | |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

WELLPATH DATA (123 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------|-----------------|------------------|-----------------|
| 4249.00 | 0.300 | 185.000 | 4208.34 | -423.97 | 424.01 | 12.47 | 40°12'09.986"N | 104°49'05.161"W | 0.34 | |
| 4345.00 | 0.400 | 176.600 | 4304.33 | -423.39 | 423.43 | 12.47 | 40°12'09.980"N | 104°49'05.161"W | 0.12 | |
| 4439.00 | 0.500 | 181.100 | 4398.33 | -422.65 | 422.69 | 12.48 | 40°12'09.973"N | 104°49'05.161"W | 0.11 | |
| 4534.00 | 0.500 | 163.400 | 4493.33 | -421.84 | 421.88 | 12.59 | 40°12'09.965"N | 104°49'05.160"W | 0.16 | |
| 4628.00 | 0.800 | 161.300 | 4587.32 | -420.82 | 420.86 | 12.92 | 40°12'09.955"N | 104°49'05.155"W | 0.32 | |
| 4724.00 | 0.700 | 190.100 | 4683.31 | -419.61 | 419.65 | 13.03 | 40°12'09.943"N | 104°49'05.154"W | 0.40 | |
| 4820.00 | 0.100 | 54.400 | 4779.31 | -419.08 | 419.12 | 13.00 | 40°12'09.938"N | 104°49'05.154"W | 0.81 | |
| 4915.00 | 0.100 | 232.700 | 4874.31 | -419.08 | 419.12 | 13.00 | 40°12'09.938"N | 104°49'05.154"W | 0.21 | |
| 5107.00 | 0.500 | 190.500 | 5066.31 | -418.16 | 418.20 | 12.71 | 40°12'09.929"N | 104°49'05.158"W | 0.22 | |
| 5298.00 | 0.600 | 184.800 | 5257.30 | -416.34 | 416.38 | 12.48 | 40°12'09.911"N | 104°49'05.161"W | 0.06 | |
| 5488.00 | 0.500 | 182.700 | 5447.29 | -414.52 | 414.56 | 12.36 | 40°12'09.893"N | 104°49'05.163"W | 0.05 | |
| 5678.00 | 0.400 | 176.500 | 5637.29 | -413.03 | 413.07 | 12.36 | 40°12'09.878"N | 104°49'05.163"W | 0.06 | |
| 5867.00 | 0.200 | 252.700 | 5826.28 | -412.28 | 412.31 | 12.08 | 40°12'09.870"N | 104°49'05.166"W | 0.21 | |
| 6057.00 | 0.100 | 266.400 | 6016.28 | -412.17 | 412.21 | 11.60 | 40°12'09.869"N | 104°49'05.172"W | 0.06 | |
| 6246.00 | 0.500 | 173.100 | 6205.28 | -411.34 | 411.38 | 11.54 | 40°12'09.861"N | 104°49'05.173"W | 0.27 | |
| 6468.00 | 1.000 | 120.700 | 6427.26 | -409.38 | 409.43 | 13.32 | 40°12'09.842"N | 104°49'05.150"W | 0.36 | |
| 6500.00 | 0.900 | 110.700 | 6459.26 | -409.15 | 409.19 | 13.79 | 40°12'09.840"N | 104°49'05.144"W | 0.60 | |
| 6532.00 | 1.900 | 155.300 | 6491.25 | -408.58 | 408.62 | 14.25 | 40°12'09.834"N | 104°49'05.138"W | 4.40 | |
| 6564.00 | 4.900 | 170.900 | 6523.19 | -406.75 | 406.79 | 14.69 | 40°12'09.816"N | 104°49'05.133"W | 9.73 | |
| 6595.00 | 6.600 | 175.600 | 6554.03 | -403.66 | 403.71 | 15.03 | 40°12'09.785"N | 104°49'05.128"W | 5.69 | |
| 6627.00 | 8.700 | 172.800 | 6585.75 | -399.43 | 399.47 | 15.48 | 40°12'09.744"N | 104°49'05.123"W | 6.66 | |
| 6658.00 | 11.900 | 173.600 | 6616.24 | -393.92 | 393.97 | 16.13 | 40°12'09.689"N | 104°49'05.114"W | 10.33 | |
| 6690.00 | 13.400 | 173.800 | 6647.47 | -386.95 | 387.00 | 16.90 | 40°12'09.620"N | 104°49'05.104"W | 4.69 | |
| 6722.00 | 15.200 | 176.200 | 6678.47 | -379.08 | 379.13 | 17.58 | 40°12'09.543"N | 104°49'05.095"W | 5.92 | |
| 6753.00 | 18.500 | 179.600 | 6708.14 | -370.10 | 370.15 | 17.88 | 40°12'09.454"N | 104°49'05.092"W | 11.11 | |
| 6785.00 | 21.800 | 180.500 | 6738.18 | -359.08 | 359.13 | 17.86 | 40°12'09.345"N | 104°49'05.092"W | 10.36 | |
| 6817.00 | 25.100 | 180.900 | 6767.53 | -346.35 | 346.40 | 17.70 | 40°12'09.219"N | 104°49'05.094"W | 10.32 | |
| 6848.00 | 28.300 | 180.600 | 6795.22 | -332.42 | 332.48 | 17.52 | 40°12'09.082"N | 104°49'05.096"W | 10.33 | |
| 6880.00 | 31.700 | 178.900 | 6822.93 | -316.43 | 316.48 | 17.61 | 40°12'08.923"N | 104°49'05.095"W | 10.95 | |
| 6911.00 | 35.400 | 178.200 | 6848.76 | -299.30 | 299.36 | 18.04 | 40°12'08.754"N | 104°49'05.089"W | 12.00 | |
| 6943.00 | 39.300 | 178.500 | 6874.19 | -279.90 | 279.95 | 18.60 | 40°12'08.563"N | 104°49'05.082"W | 12.20 | |
| 6974.00 | 43.000 | 178.700 | 6897.53 | -259.51 | 259.56 | 19.10 | 40°12'08.361"N | 104°49'05.076"W | 11.94 | |
| 7005.00 | 44.100 | 179.000 | 6920.00 | -238.15 | 238.21 | 19.53 | 40°12'08.150"N | 104°49'05.070"W | 3.61 | |
| 7052.00 | 48.000 | 180.100 | 6952.61 | -204.32 | 204.38 | 19.78 | 40°12'07.816"N | 104°49'05.067"W | 8.47 | |
| 7099.00 | 51.800 | 181.100 | 6982.88 | -168.38 | 168.44 | 19.40 | 40°12'07.461"N | 104°49'05.072"W | 8.25 | |
| 7147.00 | 57.400 | 180.900 | 7010.68 | -129.28 | 129.34 | 18.72 | 40°12'07.074"N | 104°49'05.081"W | 11.67 | |
| 7194.00 | 63.900 | 181.200 | 7033.70 | -88.34 | 88.40 | 17.96 | 40°12'06.670"N | 104°49'05.091"W | 13.84 | |
| 7241.00 | 65.300 | 182.800 | 7053.86 | -45.92 | 45.97 | 16.48 | 40°12'06.250"N | 104°49'05.110"W | 4.28 | |
| 7288.00 | 70.000 | 182.600 | 7071.73 | -2.52 | 2.56 | 14.43 | 40°12'05.821"N | 104°49'05.136"W | 10.01 | |
| 7335.00 | 76.300 | 181.500 | 7085.35 | 42.41 | -42.37 | 12.83 | 40°12'05.377"N | 104°49'05.157"W | 13.59 | |
| 7382.00 | 82.400 | 180.800 | 7094.03 | 88.56 | -88.53 | 11.91 | 40°12'04.921"N | 104°49'05.169"W | 13.06 | |
| 7432.00 | 86.600 | 180.600 | 7098.82 | 138.32 | -138.28 | 11.30 | 40°12'04.429"N | 104°49'05.176"W | 8.41 | |
| 7474.00† | 88.280 | 181.045 | 7100.70 | 180.27 | -180.24 | 10.70 | 40°12'04.015"N | 104°49'05.184"W | 4.14 | 7" Casing Point |
| 7517.00 | 90.000 | 181.500 | 7101.34 | 223.25 | -223.22 | 9.74 | 40°12'03.590"N | 104°49'05.196"W | 4.14 | |
| 7580.00 | 90.000 | 180.800 | 7101.34 | 286.23 | -286.21 | 8.48 | 40°12'02.968"N | 104°49'05.213"W | 1.11 | |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

WELLPATH DATA (123 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Latitude | Longitude | DLS [°/100ft] | Comments |
|----------|-----------------|-------------|----------|----------------|------------|-----------|----------------|-----------------|---------------|--------------------------|
| 7675.00 | 90.400 | 180.800 | 7101.01 | 381.21 | -381.20 | 7.15 | 40°12'02.029"N | 104°49'05.230"W | 0.42 | |
| 7770.00 | 91.000 | 180.300 | 7099.85 | 476.20 | -476.18 | 6.24 | 40°12'01.090"N | 104°49'05.242"W | 0.82 | |
| 7865.00 | 91.200 | 178.800 | 7098.02 | 571.18 | -571.16 | 6.98 | 40°12'00.152"N | 104°49'05.232"W | 1.59 | |
| 7960.00 | 91.900 | 179.000 | 7095.45 | 666.13 | -666.11 | 8.81 | 40°11'59.214"N | 104°49'05.208"W | 0.77 | |
| 8055.00 | 91.100 | 178.200 | 7092.97 | 761.07 | -761.04 | 11.13 | 40°11'58.275"N | 104°49'05.179"W | 1.19 | |
| 8150.00 | 89.500 | 179.100 | 7092.47 | 856.05 | -856.01 | 13.37 | 40°11'57.337"N | 104°49'05.150"W | 1.93 | |
| 8245.00 | 89.800 | 179.300 | 7093.05 | 951.04 | -951.00 | 14.69 | 40°11'56.398"N | 104°49'05.133"W | 0.38 | |
| 8340.00 | 88.400 | 180.400 | 7094.54 | 1046.03 | -1045.99 | 14.94 | 40°11'55.460"N | 104°49'05.129"W | 1.87 | |
| 8434.00 | 88.500 | 180.800 | 7097.09 | 1139.98 | -1139.95 | 13.96 | 40°11'54.531"N | 104°49'05.142"W | 0.44 | |
| 8529.00 | 88.500 | 180.800 | 7099.57 | 1234.94 | -1234.90 | 12.63 | 40°11'53.593"N | 104°49'05.159"W | 0.00 | |
| 8624.00 | 88.500 | 180.900 | 7102.06 | 1329.89 | -1329.86 | 11.22 | 40°11'52.654"N | 104°49'05.177"W | 0.11 | |
| 8719.00 | 90.100 | 179.500 | 7103.22 | 1424.87 | -1424.85 | 10.89 | 40°11'51.716"N | 104°49'05.182"W | 2.24 | |
| 8813.00 | 90.400 | 180.400 | 7102.81 | 1518.87 | -1518.85 | 10.97 | 40°11'50.787"N | 104°49'05.181"W | 1.01 | |
| 8908.00 | 90.100 | 181.100 | 7102.40 | 1613.86 | -1613.84 | 9.73 | 40°11'49.848"N | 104°49'05.197"W | 0.80 | |
| 9003.00 | 90.300 | 180.500 | 7102.06 | 1708.84 | -1708.83 | 8.40 | 40°11'48.909"N | 104°49'05.214"W | 0.67 | |
| 9098.00 | 89.900 | 180.900 | 7101.90 | 1803.83 | -1803.82 | 7.24 | 40°11'47.971"N | 104°49'05.229"W | 0.60 | |
| 9193.00 | 89.400 | 180.200 | 7102.48 | 1898.82 | -1898.81 | 6.33 | 40°11'47.032"N | 104°49'05.240"W | 0.91 | |
| 9288.00 | 90.200 | 180.100 | 7102.81 | 1993.82 | -1993.81 | 6.08 | 40°11'46.093"N | 104°49'05.244"W | 0.85 | |
| 9383.00 | 89.600 | 179.500 | 7102.98 | 2088.82 | -2088.81 | 6.41 | 40°11'45.154"N | 104°49'05.239"W | 0.89 | |
| 9573.00 | 90.600 | 178.700 | 7102.64 | 2278.80 | -2278.78 | 9.40 | 40°11'43.277"N | 104°49'05.201"W | 0.67 | |
| 9763.00 | 91.100 | 179.900 | 7099.83 | 2468.77 | -2468.74 | 11.72 | 40°11'41.400"N | 104°49'05.171"W | 0.68 | |
| 9954.00 | 91.100 | 178.400 | 7096.16 | 2659.71 | -2659.68 | 14.55 | 40°11'39.513"N | 104°49'05.134"W | 0.79 | |
| 10051.00 | 90.800 | 180.000 | 7094.55 | 2756.69 | -2756.65 | 15.91 | 40°11'38.555"N | 104°49'05.117"W | 1.68 | |
| 10146.00 | 89.400 | 180.600 | 7094.38 | 2851.68 | -2851.65 | 15.41 | 40°11'37.616"N | 104°49'05.123"W | 1.60 | |
| 10336.00 | 89.200 | 181.600 | 7096.71 | 3041.62 | -3041.60 | 11.76 | 40°11'35.739"N | 104°49'05.170"W | 0.54 | |
| 10525.00 | 89.000 | 180.000 | 7099.67 | 3230.56 | -3230.55 | 9.12 | 40°11'33.872"N | 104°49'05.204"W | 0.85 | |
| 10714.00 | 88.300 | 179.500 | 7104.13 | 3419.51 | -3419.49 | 9.95 | 40°11'32.005"N | 104°49'05.194"W | 0.46 | |
| 10809.00 | 89.800 | 180.000 | 7105.70 | 3514.49 | -3514.48 | 10.36 | 40°11'31.066"N | 104°49'05.188"W | 1.66 | |
| 11000.00 | 90.100 | 180.200 | 7105.87 | 3705.49 | -3705.48 | 10.03 | 40°11'29.179"N | 104°49'05.193"W | 0.19 | |
| 11191.00 | 89.100 | 179.900 | 7107.20 | 3896.48 | -3896.47 | 9.86 | 40°11'27.291"N | 104°49'05.195"W | 0.55 | |
| 11380.00 | 89.800 | 179.800 | 7109.02 | 4085.47 | -4085.46 | 10.36 | 40°11'25.424"N | 104°49'05.189"W | 0.37 | |
| 11569.00 | 89.800 | 179.300 | 7109.68 | 4274.47 | -4274.45 | 11.84 | 40°11'23.556"N | 104°49'05.169"W | 0.26 | Last BHI MWD+IFR Surveys |
| 11653.00 | 89.800 | 179.300 | 7109.97 | 4358.46 | -4358.44 | 12.87 | 40°11'22.726"N | 104°49'05.156"W | 0.00 | Projection to Bit |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

| HOLE & CASING SECTIONS - Ref Wellbore: MILLENSIFER FED 36N-30HZ AWP Ref Wellpath: MILLENSIFER FED 36N-30HZ 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] |
| 13.5in Open Hole | 13.00 | 756.00 | 743.00 | 13.00 | 755.99 | 0.00 | 0.00 | -0.27 | -3.20 |
| 9.625in Casing Surface | 13.00 | 756.00 | 743.00 | 13.00 | 755.99 | 0.00 | 0.00 | -0.27 | -3.20 |
| 8.75in Open Hole | 756.00 | 7484.00 | 6728.00 | 755.99 | 7100.96 | -0.27 | -3.20 | -190.23 | 10.50 |
| 7in Casing Intermediate | 13.00 | 7474.00 | 7461.00 | 13.00 | 7100.70 | 0.00 | 0.00 | -180.24 | 10.70 |
| 6.125in Open Hole | 7474.00 | 11653.00 | 4179.00 | 7100.70 | 7109.97 | -180.24 | 10.70 | -4358.44 | 12.87 |

| TARGETS | | | | | | | | | |
|---|---------|----------|------------|-----------|-------------------|--------------------|----------------|-----------------|---------|
| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | Latitude | Longitude | Shape |
| MILLENSIFER FED 4 PAD SECTION LINES | | -3.00 | 0.00 | 0.00 | 3190457.53 | 1317021.21 | 40°12'05.796"N | 104°49'05.322"W | polygon |
| MILLENSIFER FED 36N-30HZ BHL ON PLAT (460'FSL & 2084'FEL, SEC.30) REV-1 | | 7085.00 | -4384.34 | 13.66 | 3190504.89 | 1312637.30 | 40°11'22.470"N | 104°49'05.146"W | point |
| MEEKS L 30-22 (NOBLE) 100' CIRCLE | | 7105.00 | -2436.64 | 918.18 | 3191394.37 | 1314591.81 | 40°11'41.717"N | 104°48'53.490"W | circle |
| MILLER 30-9K (NOBLE) 100' CIRCLE | | 7105.00 | -2949.27 | 1411.21 | 3191891.31 | 1314083.01 | 40°11'36.651"N | 104°48'47.137"W | circle |
| MEEKS L 30-18D (NOBLE) 100' CIRCLE | | 7114.00 | -838.29 | -593.46 | 3189870.56 | 1316178.42 | 40°11'57.512"N | 104°49'12.970"W | circle |
| MEEKS L 30-21D (NOBLE) 100' CIRCLE | | 7114.00 | -2037.44 | -573.00 | 3189900.23 | 1314979.52 | 40°11'45.662"N | 104°49'12.706"W | circle |
| FREEWAY L 30-10 JI (NOBLE) 100' CIRCLE | | 7115.00 | -2661.61 | -183.99 | 3190294.01 | 1314358.38 | 40°11'39.494"N | 104°49'07.693"W | circle |
| MILLENSIFER FED 36N-30HZ BHL ON PLAT (460'FSL & 2084'FEL, SEC.30) REV-2 | | 7115.00 | -4384.34 | 13.66 | 3190504.90 | 1312637.30 | 40°11'22.470"N | 104°49'05.146"W | point |
| MILLENSIFER 30-10K (NOBLE) 100' CIRCLE | | 7120.00 | -3174.96 | 581.41 | 3191063.30 | 1313850.95 | 40°11'34.421"N | 104°48'57.830"W | circle |
| MILLENSIFER 30-15K (NOBLE) 100' CIRCLE | | 7217.00 | -4077.22 | 273.02 | 3190761.87 | 1312946.40 | 40°11'25.505"N | 104°49'01.804"W | circle |
| MILLENSIFER FED 36N-30HZ LAND BOX | | 7297.00 | 0.00 | 0.00 | 3190457.53 | 1317021.21 | 40°12'05.796"N | 104°49'05.322"W | polygon |
| MILLENSIFER FED 4 PAD HARDLINES (460'SETBACKS) | | 7297.00 | 0.00 | 0.00 | 3190457.53 | 1317021.21 | 40°12'05.796"N | 104°49'05.322"W | polygon |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

| WELLPATH COMPOSITION - Ref Wellbore: MILLENSIFER FED 36N-30HZ AWP Ref Wellpath: MILLENSIFER FED 36N-30HZ AWP | | | | |
|---|-------------|--------------------------------------|--|------------------------------|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 13.00 | 693.00 | Generic gyro - continuous (Standard) | GYRODATA SURVEYS <113-693> | MILLENSIFER FED 36N-30HZ AWP |
| 693.00 | 7432.00 | NaviTrak (MAGCORR,IFR) | BHI MWD+IFR SURVEYS 8 3/4" HOLE <872-7432> | MILLENSIFER FED 36N-30HZ AWP |
| 7432.00 | 11569.00 | OnTrak (MAGCORR,IFR) | BHI MWD+IFR SURVEYS 6 1/8" HOLE <7517-11569> | MILLENSIFER FED 36N-30HZ AWP |
| 11569.00 | 11653.00 | Blind Drilling (std) | Projection to bit | MILLENSIFER FED 36N-30HZ AWP |



Actual Wellpath Report

MILLENSIFER FED 36N-30HZ AWP

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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|---|
| Operator | KERR-MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#01 MILLENSIFER FED 36N-30HZ (471'FNL & 2099'FEL, SEC.30) |
| Area | COLORADO | Well | MILLENSIFER FED 36N-30HZ |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | MILLENSIFER FED 36N-30HZ AWP |
| Facility | SEC.30-T3N-R66W | | |

WELLPATH COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|------------|--------------------|----------------|-------------|---------------------------|
| 13.00 | 0.000 | 291.910 | 13.00 | Tie-On |
| 113.00 | 0.120 | 291.910 | 113.00 | Begin GYRO Surveys |
| 693.00 | 0.410 | 263.030 | 692.99 | Tie-Into GYRO Surveys |
| 872.00 | 0.500 | 265.900 | 871.99 | Begin BHI MWD+IFR Surveys |
| 7474.00 | 88.280 | 181.045 | 7100.70 | 7" Casing Point |
| 11569.00 | 89.800 | 179.300 | 7109.68 | Last BHI MWD+IFR Surveys |
| 11653.00 | 89.800 | 179.300 | 7109.97 | Projection to Bit |