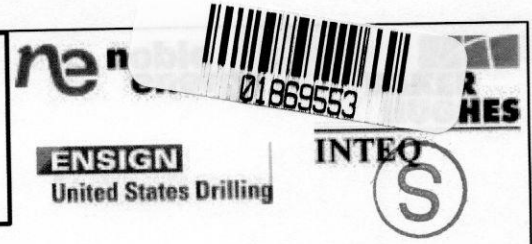
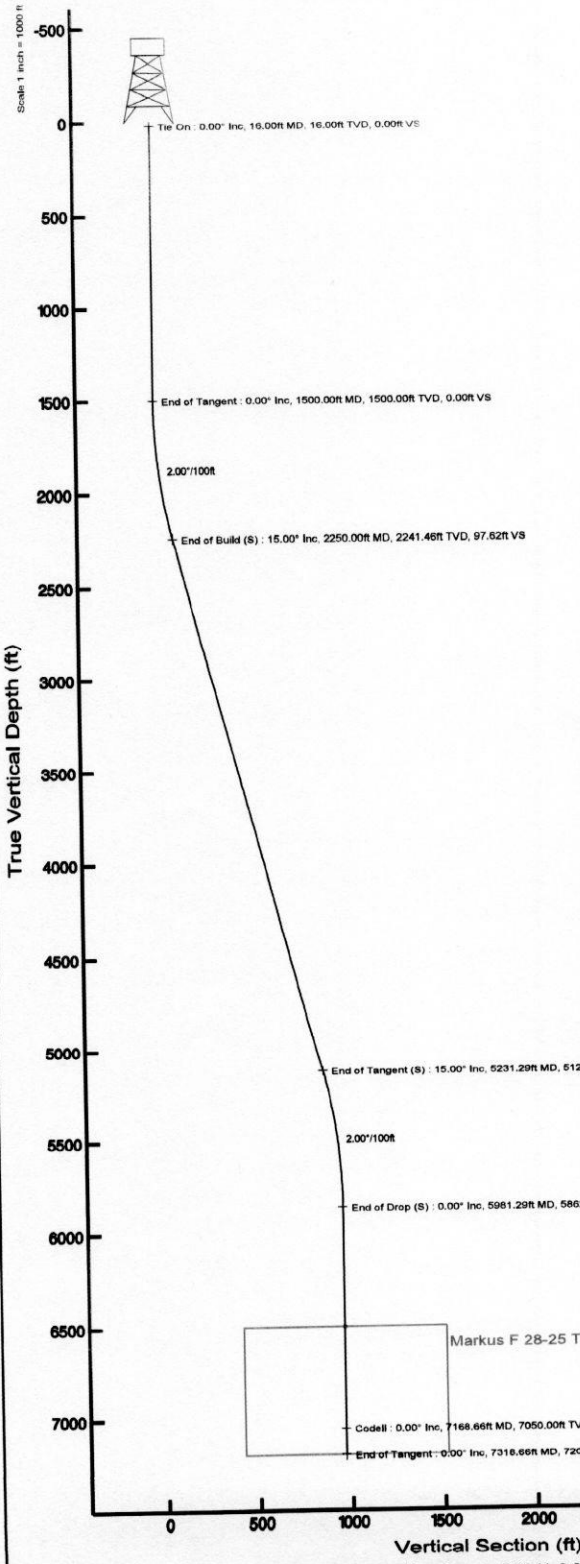
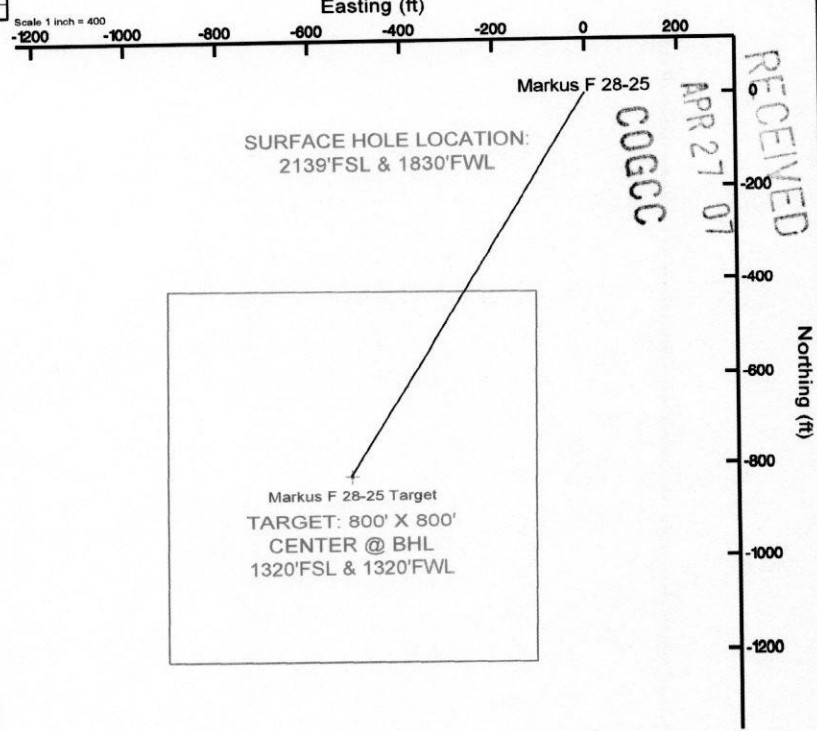


NOBLE ENERGY, INC

Location: COLORADO Slot: Markus F 28-25
 Field: WELD COUNTY (NOBLE NAD 83) Well: Markus F 28-25
 Facility: SEC.28-T5N-R65W Wellbore: Markus F 28-25 PWB



| | |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------|
| Plot reference wellbore is Markus F 28-25 PWB | Grid System: NAD83 / Lambert Colorado State Plane, Northern Zone (501), US feet |
| True vertical depths are referenced to Ensign 7 (RT) | North Reference: True north |
| Measured depths are referenced to Ensign 7 (RT) | Scale: True distance |
| Ensign 7 (RT) to Mean Sea Level: 4662 feet | Depths are in feet |
| Mean Sea Level to Mud line (Facility - SEC.28-T5N-R65W): 9 feet | Created by: Suzanne Thompson on 4/16/2007 |
| Coordinates are in feet referenced to BHL | |

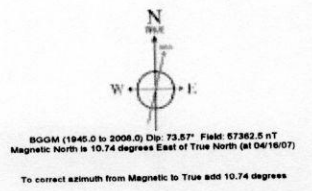


| Targets | | | | | | | | |
|-----------------------|---------|----------|--------------|--------------|------------------|-------------------|------------------|-------------------|
| Name | MD (ft) | TVD (ft) | Local N (ft) | Local E (ft) | Grid East (USft) | Grid North (USft) | Latitude | Longitude |
| Markus F 28-25 Target | | 6500.00 | -819.69 | -512.73 | 3230410.07 | 1377496.37 | 40° 22' 00.048"N | 104° 40' 23.160"W |

| Well Profile Data | | | | | | | | |
|--------------------|---------|---------|---------|----------|--------------|--------------|---------------|---------|
| Design Comment | MD (ft) | Inc (") | Az (") | TVD (ft) | Local N (ft) | Local E (ft) | DLS ("/100ft) | VS (ft) |
| Tie On | 16.00 | 0.000 | 212.027 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Tangent | 1500.00 | 0.000 | 212.027 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| End of Build (S) | 2250.00 | 15.000 | 212.027 | 2241.46 | -82.76 | -51.77 | 2.00 | 97.82 |
| End of Tangent (S) | 5231.29 | 15.000 | 212.027 | 5121.17 | -736.93 | -460.97 | 0.00 | 869.23 |
| End of Drop (S) | 5981.29 | 0.000 | 212.027 | 5862.63 | -819.69 | -512.73 | 2.00 | 966.85 |
| End of Tangent | 7318.66 | 0.000 | 212.027 | 7200.00 | -819.69 | -512.73 | 0.00 | 966.85 |

| Location Information | | | | | |
|---------------------------------------------------------|------------------|-------------------|------------------|-------------------|------------------|
| Facility Name | Grid East (USft) | Grid North (USft) | Latitude | Longitude | |
| SEC.28-T5N-R65W | 3230915.093 | 1378320.778 | 40° 22' 08.148"N | 104° 40' 18.536"W | |
| Slot | Local N (ft) | Local E (ft) | Grid East (USft) | Grid North (USft) | Latitude |
| Markus F 28-25 | 0.00 | 0.00 | 3230915.093 | 1378320.778 | 40° 22' 08.148"N |
| Ensign 7 (RT) to Mud line (Facility - SEC.28-T5N-R65W) | | | | | 4662ft |
| Mean Sea Level to Mud line (Facility - SEC.28-T5N-R65W) | | | | | 0ft |
| Ensign 7 (RT) to Mean Sea Level | | | | | 4662ft |

ENSIGN 7



Azimuth 212.03° with reference 0.00 N, 0.00 E from wellhead



Planned Wellpath Report

Markus F 28-25 PWP
Page 1 of 4



| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|----------------------------|----------|--------------------|
| Operator | NOBLE ENERGY, INC | Slot | Markus F 28-25 |
| Area | COLORADO | Well | Markus F 28-25 |
| Field | WELD COUNTY (NOBLE NAD 83) | Wellbore | Markus F 28-25 PWB |
| Facility | SEC.28-T5N-R65W | | |

| REPORT SETUP INFORMATION | | | |
|--------------------------|---------------------------------------------------------------------|----------------------|----------------------|
| Projection System | NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet | Software System | WellArchitect™ 1.2 |
| North Reference | True | User | Suzanne Thompson |
| Scale | 0.999959 | Report Generated | 04/16/07 at 15:47:49 |
| Wellbore last revised | 04/16/07 | Database/Source file | WA_Denver/Markus |

| WELLPATH LOCATION | | | | | | |
|-----------------------|-------------------|-------------|-------------------|--------------------|------------------------|----------------|
| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
| | North [feet] | East [feet] | Easting [US feet] | Northing [US feet] | Latitude [°] | Longitude [°] |
| Slot Location | 0.00 | 0.00 | 3230915.09 | 1378320.78 | 40 22 08.148N | 104 40 16.536W |
| Facility Reference Pt | | | 3230915.09 | 1378320.78 | 40 22 08.148N | 104 40 16.536W |
| Field Reference Pt | | | 3000000.00 | 4454105.15 | 48 46 34.315N | 105 30 00.000W |

| WELLPATH DATUM | | | |
|--------------------------|-------------------|------------------------------------------------|-------------------|
| Calculation method | Minimum curvature | Ensign 7 (RT) to Facility Vertical Datum | 4662.00 feet |
| Horizontal Reference Pt | Slot | Ensign 7 (RT) to Mean Sea Level | 4662.00 feet |
| Vertical Reference Pt | Ensign 7 (RT) | Facility Vertical Datum to Mud Line (Facility) | 0.00 feet |
| MD Reference Pt | Ensign 7 (RT) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 212.03° |

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Markus F 28-25 PWP
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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|----------------------------|----------|--------------------|
| Operator | NOBLE ENERGY, INC | Slot | Markus F 28-25 |
| Area | COLORADO | Well | Markus F 28-25 |
| Field | WELD COUNTY (NOBLE NAD 83) | Wellbore | Markus F 28-25 PWB |
| Facility | SEC.28-T5N-R65W | | |

WELLPATH DATA (80 stations) † = interpolated/extrapolated station

| MD [feet] | Inclination [°] | Azimuth [°] | TVD [feet] | Vert Sect [feet] | North [feet] | East [feet] | DLS [°/100ft] |
|-----------|-----------------|-------------|------------|------------------|--------------|-------------|---------------|
| 0.00† | 0.000 | 212.027 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16.00 | 0.000 | 212.027 | 16.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 116.00† | 0.000 | 0.000 | 116.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 216.00† | 0.000 | 0.000 | 216.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 316.00† | 0.000 | 0.000 | 316.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 416.00† | 0.000 | 0.000 | 416.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 516.00† | 0.000 | 0.000 | 516.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 616.00† | 0.000 | 0.000 | 616.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 716.00† | 0.000 | 0.000 | 716.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 816.00† | 0.000 | 0.000 | 816.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 916.00† | 0.000 | 0.000 | 916.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1016.00† | 0.000 | 0.000 | 1016.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1116.00† | 0.000 | 0.000 | 1116.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1216.00† | 0.000 | 0.000 | 1216.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1316.00† | 0.000 | 0.000 | 1316.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1416.00† | 0.000 | 0.000 | 1416.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1500.00 | 0.000 | 212.027 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1516.00† | 0.320 | 212.027 | 1516.00 | 0.04 | -0.04 | -0.02 | 2.00 |
| 1616.00† | 2.320 | 212.027 | 1615.97 | 2.35 | -1.99 | -1.25 | 2.00 |
| 1716.00† | 4.320 | 212.027 | 1715.80 | 8.14 | -6.90 | -4.32 | 2.00 |
| 1816.00† | 6.320 | 212.027 | 1815.36 | 17.41 | -14.76 | -9.23 | 2.00 |
| 1916.00† | 8.320 | 212.027 | 1914.54 | 30.15 | -25.56 | -15.99 | 2.00 |
| 2016.00† | 10.320 | 212.027 | 2013.21 | 46.34 | -39.29 | -24.58 | 2.00 |
| 2116.00† | 12.320 | 212.027 | 2111.26 | 65.97 | -55.93 | -34.99 | 2.00 |
| 2216.00† | 14.320 | 212.027 | 2208.57 | 89.01 | -75.46 | -47.20 | 2.00 |
| 2250.00 | 15.000 | 212.027 | 2241.46 | 97.62 | -82.76 | -51.77 | 2.00 |
| 2316.00† | 15.000 | 212.027 | 2305.21 | 114.70 | -97.24 | -60.83 | 0.00 |
| 2416.00† | 15.000 | 212.027 | 2401.81 | 140.58 | -119.18 | -74.55 | 0.00 |
| 2516.00† | 15.000 | 212.027 | 2498.40 | 166.46 | -141.13 | -88.28 | 0.00 |
| 2616.00† | 15.000 | 212.027 | 2594.99 | 192.34 | -163.07 | -102.00 | 0.00 |
| 2716.00† | 15.000 | 212.027 | 2691.58 | 218.22 | -185.01 | -115.73 | 0.00 |
| 2816.00† | 15.000 | 212.027 | 2788.18 | 244.11 | -206.95 | -129.45 | 0.00 |
| 2916.00† | 15.000 | 212.027 | 2884.77 | 269.99 | -228.90 | -143.18 | 0.00 |
| 3016.00† | 15.000 | 212.027 | 2981.36 | 295.87 | -250.84 | -156.90 | 0.00 |
| 3116.00† | 15.000 | 212.027 | 3077.95 | 321.75 | -272.78 | -170.63 | 0.00 |
| 3216.00† | 15.000 | 212.027 | 3174.55 | 347.63 | -294.72 | -184.36 | 0.00 |
| 3316.00† | 15.000 | 212.027 | 3271.14 | 373.52 | -316.67 | -198.08 | 0.00 |
| 3416.00† | 15.000 | 212.027 | 3367.73 | 399.40 | -338.61 | -211.81 | 0.00 |
| 3516.00† | 15.000 | 212.027 | 3464.32 | 425.28 | -360.55 | -225.53 | 0.00 |
| 3616.00† | 15.000 | 212.027 | 3560.92 | 451.16 | -382.50 | -239.26 | 0.00 |



Planned Wellpath Report

Markus F 28-25 PWP
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REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|----------------------------|----------|--------------------|
| Operator | NOBLE ENERGY, INC | Slot | Markus F 28-25 |
| Area | COLORADO | Well | Markus F 28-25 |
| Field | WELD COUNTY (NOBLE NAD 83) | Wellbore | Markus F 28-25 PWB |
| Facility | SEC.28-T5N-R65W | | |

WELLPATH DATA (80 stations) † = interpolated/extrapolated station

| MD [feet] | Inclination [°] | Azimuth [°] | TVD [feet] | Vert Sect [feet] | North [feet] | East [feet] | DLS [°/100ft] |
|-----------|-----------------|-------------|----------------------|------------------|--------------|-------------|---------------|
| 3716.00† | 15.000 | 212.027 | 3657.51 | 477.04 | -404.44 | -252.98 | 0.00 |
| 3816.00† | 15.000 | 212.027 | 3754.10 | 502.93 | -426.38 | -266.71 | 0.00 |
| 3916.00† | 15.000 | 212.027 | 3850.69 | 528.81 | -448.32 | -280.43 | 0.00 |
| 4016.00† | 15.000 | 212.027 | 3947.29 | 554.69 | -470.27 | -294.16 | 0.00 |
| 4116.00† | 15.000 | 212.027 | 4043.88 | 580.57 | -492.21 | -307.89 | 0.00 |
| 4216.00† | 15.000 | 212.027 | 4140.47 | 606.45 | -514.15 | -321.61 | 0.00 |
| 4316.00† | 15.000 | 212.027 | 4237.06 | 632.34 | -536.09 | -335.34 | 0.00 |
| 4416.00† | 15.000 | 212.027 | 4333.66 | 658.22 | -558.04 | -349.06 | 0.00 |
| 4516.00† | 15.000 | 212.027 | 4430.25 | 684.10 | -579.98 | -362.79 | 0.00 |
| 4616.00† | 15.000 | 212.027 | 4526.84 | 709.98 | -601.92 | -376.51 | 0.00 |
| 4716.00† | 15.000 | 212.027 | 4623.44 | 735.86 | -623.87 | -390.24 | 0.00 |
| 4816.00† | 15.000 | 212.027 | 4720.03 | 761.74 | -645.81 | -403.96 | 0.00 |
| 4916.00† | 15.000 | 212.027 | 4816.62 | 787.63 | -667.75 | -417.69 | 0.00 |
| 5016.00† | 15.000 | 212.027 | 4913.21 | 813.51 | -689.69 | -431.42 | 0.00 |
| 5116.00† | 15.000 | 212.027 | 5009.81 | 839.39 | -711.64 | -445.14 | 0.00 |
| 5216.00† | 15.000 | 212.027 | 5106.40 | 865.27 | -733.58 | -458.87 | 0.00 |
| 5231.29 | 15.000 | 212.027 | 5121.17 | 869.23 | -736.93 | -460.97 | 0.00 |
| 5316.00† | 13.306 | 212.027 | 5203.30 | 889.94 | -754.49 | -471.95 | 2.00 |
| 5416.00† | 11.306 | 212.027 | 5301.00 | 911.25 | -772.56 | -483.25 | 2.00 |
| 5516.00† | 9.306 | 212.027 | 5399.38 | 929.14 | -787.73 | -492.74 | 2.00 |
| 5616.00† | 7.306 | 212.027 | 5498.33 | 943.59 | -799.97 | -500.40 | 2.00 |
| 5716.00† | 5.306 | 212.027 | 5597.72 | 954.57 | -809.29 | -506.22 | 2.00 |
| 5816.00† | 3.306 | 212.027 | 5697.43 | 962.08 | -815.65 | -510.20 | 2.00 |
| 5916.00† | 1.306 | 212.027 | 5797.34 | 966.10 | -819.06 | -512.34 | 2.00 |
| 5981.29 | 0.000 | 212.027 | 5862.63 ¹ | 966.85 | -819.69 | -512.73 | 2.00 |
| 6016.00† | 0.000 | 0.000 | 5897.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6116.00† | 0.000 | 0.000 | 5997.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6216.00† | 0.000 | 0.000 | 6097.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6316.00† | 0.000 | 0.000 | 6197.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6416.00† | 0.000 | 0.000 | 6297.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6516.00† | 0.000 | 0.000 | 6397.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6616.00† | 0.000 | 0.000 | 6497.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6716.00† | 0.000 | 0.000 | 6597.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6816.00† | 0.000 | 0.000 | 6697.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 6916.00† | 0.000 | 0.000 | 6797.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 7016.00† | 0.000 | 0.000 | 6897.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 7116.00† | 0.000 | 0.000 | 6997.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 7216.00† | 0.000 | 0.000 | 7097.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 7316.00† | 0.000 | 0.000 | 7197.34 | 966.85 | -819.69 | -512.73 | 0.00 |
| 7318.66 | 0.000 | 212.027 | 7200.00 | 966.85 | -819.69 | -512.73 | 0.00 |



Planned Wellpath Report

Markus F 28-25 PWP
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|----------------------------|----------|--------------------|
| Operator | NOBLE ENERGY, INC | Slot | Markus F 28-25 |
| Area | COLORADO | Well | Markus F 28-25 |
| Field | WELD COUNTY (NOBLE NAD 83) | Wellbore | Markus F 28-25 PWB |
| Facility | SEC.28-T5N-R65W | | |

TARGETS

| Name | MD [feet] | TVD [feet] | North [feet] | East [feet] | Grid East [us survey feet] | Grid North [us survey feet] | Latitude [°] | Longitude [°] | Shape |
|--------------------------|-----------|------------|--------------|-------------|----------------------------|-----------------------------|---------------|----------------|--------|
| 1) Markus F 28-25 Target | | 6500.00 | -819.69 | -512.73 | 3230410.07 | 1377496.37 | 40 22 00.048N | 104 40 23.160W | square |

SURVEY PROGRAM Ref Wellbore: Markus F 28-25 PWB Ref Wellpath: Markus F 28-25 PWP

| Start MD [feet] | End MD [feet] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
|-----------------|---------------|-----------------------------------|------------------|--------------------|
| 16.00 | 7318.66 | MTC (Collar, pre-2000) (Standard) | | Markus F 28-25 PWB |

WELLPATH COMMENTS

| MD [feet] | Inclination [degrees] | Azimuth [degrees] | TVD [feet] | Comment |
|-----------|-----------------------|-------------------|------------|---------|
| 7168.66 | 0.000 | 212.027 | 7050.00 | Codell |

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