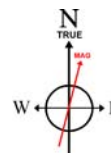
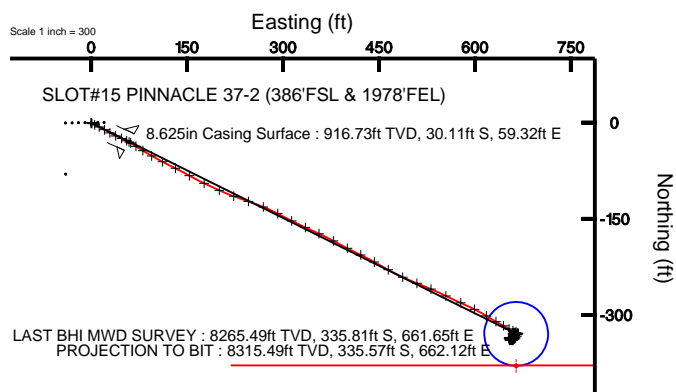
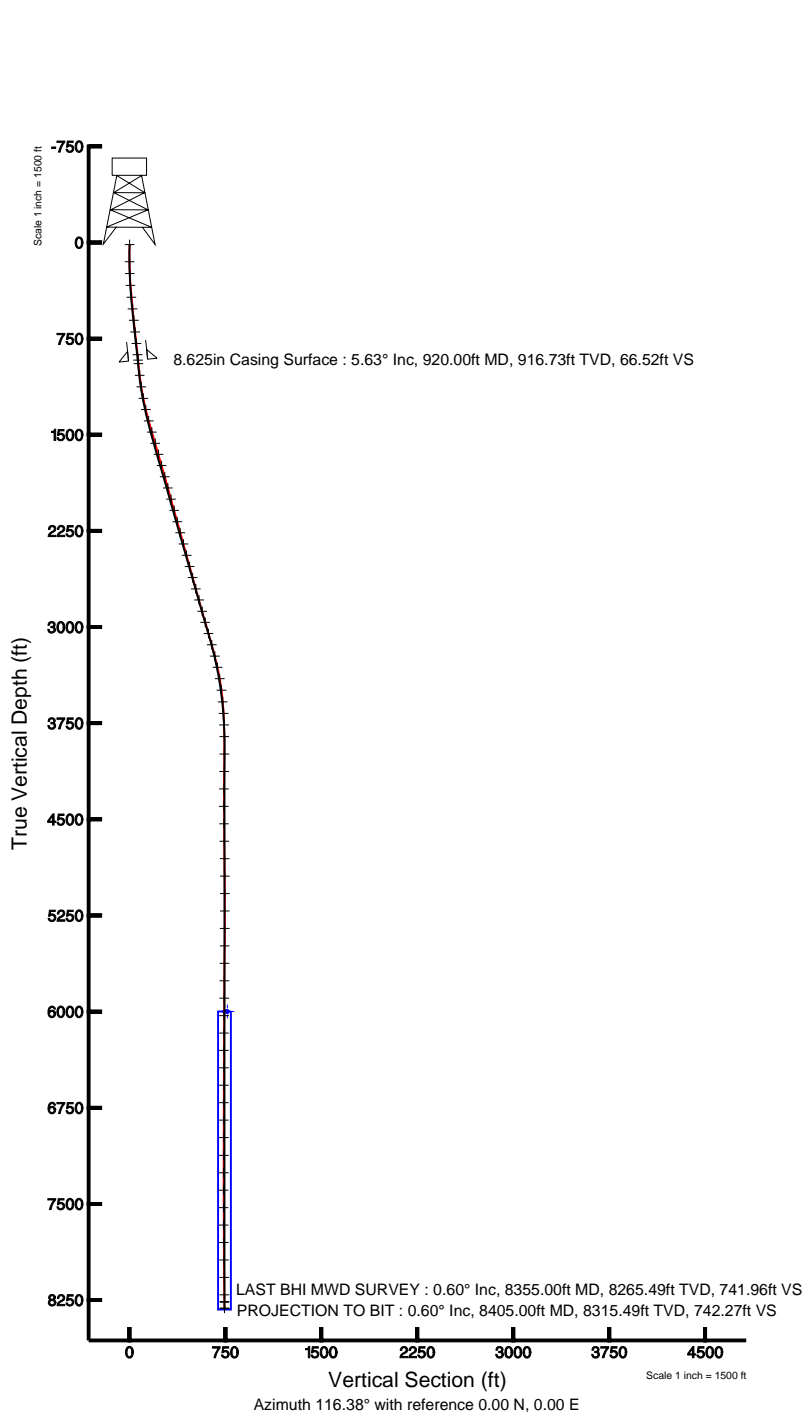




KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL)
Field: WELD COUNTY (KERR MCGEE) Well: PINNACLE 37-2
Facility: SEC.02-T1N-R68W Wellbore: PINNACLE 37-2 PWB

| | |
|--|--|
| Plot reference wellpath is PINNACLE 37-2 (REV-A.0) PWP | |
| True vertical depths are referenced to XTREME 12 (RKB) | Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet |
| Measured depths are referenced to XTREME 12 (RKB) | North Reference: True north |
| XTREME 12 (RKB) to Mean Sea Level: 5020 feet | Scale: True distance |
| Mean Sea Level to Mud line (Facility: SEC.02-T1N-R68W): 0 feet | Depths are in feet |
| Coordinates are in feet referenced to Slot | Created by: cookdamm on 6/8/2011 |



BGGM (1945.0 to 2012.0) Dip: 66.77° Field: 52979 nT
Magnetic North is 8.94 degrees East of True North (at 3/25/2011)

To correct azimuth from Magnetic to True add 8.94 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.94 = 98.94



Actual Wellpath Report

PINNACLE 37-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL) |
| Area | COLORADO | Well | PINNACLE 37-2 |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | PINNACLE 37-2 awb |
| Facility | SEC.02-T1N-R68W | | |

REPORT SETUP INFORMATION

| | | | |
|---------------------|---|----------------------|---------------------------------|
| Projection System | NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet | Software System | WellArchitect® 2.0 |
| North Reference | True | User | Cookdanm |
| Scale | 0.999962 | Report Generated | 6/8/2011 at 11:39:11 AM |
| Convergence at slot | 0.34° East | Database/Source file | WA_DENVER/PINNACLE_37-2_awb.xml |

WELLPATH LOCATION

| | Local coordinates | | Grid coordinates | | Geographic coordinates | |
|-----------------------|-------------------|----------|------------------|----------------|------------------------|-----------------|
| | North[ft] | East[ft] | Easting[USft] | Northing[USft] | Latitude | Longitude |
| Slot Location | -871.70 | 1644.74 | 3148822.48 | 1270310.29 | 40°04'27.001"N | 104°58'05.524"W |
| Facility Reference Pt | | | 3147172.67 | 1271172.18 | 40°04'35.616"N | 104°58'26.681"W |
| Field Reference Pt | | | 3197771.84 | 1268891.29 | 40°04'09.600"N | 104°47'36.000"W |

WELLPATH DATUM

| | | | |
|--------------------------|-------------------|--|-------------------|
| Calculation method | Minimum curvature | XTREME 12 (RKB) to Facility Vertical Datum | 5020.00ft |
| Horizontal Reference Pt | Slot | XTREME 12 (RKB) to Mean Sea Level | 5020.00ft |
| Vertical Reference Pt | XTREME 12 (RKB) | Facility Vertical Datum to Mud Line (Facility) | 0.00ft |
| MD Reference Pt | XTREME 12 (RKB) | Section Origin | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level | Section Azimuth | 116.38° |



Actual Wellpath Report

PINNACLE 37-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL) |
| Area | COLORADO | Well | PINNACLE 37-2 |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | PINNACLE 37-2 awb |
| Facility | SEC.02-T1N-R68W | | |

WELLPATH DATA (79 stations) † = interpolated/extrapolated station

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|----------|
| 0.00† | 0.000 | 175.600 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 15.00 | 0.000 | 175.600 | 15.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 149.00 | 0.400 | 175.600 | 149.00 | 0.24 | -0.47 | 0.04 | 0.30 | |
| 242.00 | 1.600 | 112.300 | 241.98 | 1.70 | -1.28 | 1.26 | 1.57 | |
| 334.00 | 4.200 | 115.900 | 333.86 | 6.35 | -3.24 | 5.48 | 2.83 | |
| 427.00 | 5.500 | 115.900 | 426.52 | 14.21 | -6.68 | 12.55 | 1.40 | |
| 518.00 | 6.200 | 119.000 | 517.05 | 23.48 | -10.96 | 20.78 | 0.84 | |
| 608.00 | 6.400 | 121.100 | 606.51 | 33.34 | -15.91 | 29.32 | 0.34 | |
| 699.00 | 6.400 | 114.100 | 696.94 | 43.46 | -20.60 | 38.29 | 0.86 | |
| 790.00 | 6.100 | 112.000 | 787.40 | 53.35 | -24.48 | 47.41 | 0.41 | |
| 877.00 | 5.700 | 116.200 | 873.94 | 62.28 | -28.12 | 55.57 | 0.68 | |
| 948.00 | 5.600 | 122.200 | 944.59 | 69.25 | -31.53 | 61.66 | 0.84 | |
| 1039.00 | 6.900 | 121.800 | 1035.05 | 79.11 | -36.77 | 70.07 | 1.43 | |
| 1130.00 | 9.100 | 122.500 | 1125.16 | 91.71 | -43.52 | 80.78 | 2.42 | |
| 1221.00 | 11.300 | 120.400 | 1214.72 | 107.76 | -51.90 | 94.54 | 2.45 | |
| 1311.00 | 13.300 | 115.900 | 1302.65 | 126.91 | -60.88 | 111.46 | 2.46 | |
| 1402.00 | 15.600 | 116.900 | 1390.76 | 149.61 | -70.99 | 131.79 | 2.54 | |
| 1493.00 | 15.800 | 119.700 | 1478.37 | 174.22 | -82.67 | 153.47 | 0.86 | |
| 1584.00 | 17.300 | 114.800 | 1565.60 | 200.11 | -94.48 | 176.51 | 2.25 | |
| 1675.00 | 16.300 | 114.800 | 1652.72 | 226.41 | -105.52 | 200.39 | 1.10 | |
| 1765.00 | 15.100 | 109.500 | 1739.36 | 250.67 | -114.73 | 222.91 | 2.08 | |
| 1856.00 | 15.900 | 109.500 | 1827.05 | 274.82 | -122.84 | 245.83 | 0.88 | |
| 1947.00 | 15.800 | 111.300 | 1914.59 | 299.53 | -131.51 | 269.12 | 0.55 | |
| 2038.00 | 15.900 | 118.300 | 2002.14 | 324.33 | -141.92 | 291.64 | 2.10 | |
| 2129.00 | 15.600 | 116.200 | 2089.73 | 349.03 | -153.23 | 313.60 | 0.71 | |
| 2220.00 | 14.500 | 115.100 | 2177.60 | 372.65 | -163.46 | 334.89 | 1.25 | |
| 2310.00 | 15.600 | 114.100 | 2264.51 | 396.01 | -173.18 | 356.15 | 1.26 | |
| 2401.00 | 17.000 | 118.700 | 2351.86 | 421.53 | -184.57 | 378.99 | 2.09 | |
| 2492.00 | 14.200 | 116.600 | 2439.50 | 445.99 | -195.96 | 400.64 | 3.14 | |
| 2583.00 | 15.500 | 116.700 | 2527.46 | 469.31 | -206.42 | 421.48 | 1.43 | |
| 2673.00 | 15.500 | 118.700 | 2614.18 | 493.35 | -217.60 | 442.77 | 0.59 | |
| 2764.00 | 16.200 | 119.000 | 2701.72 | 518.18 | -229.59 | 464.54 | 0.77 | |
| 2855.00 | 16.400 | 115.500 | 2789.07 | 543.71 | -241.28 | 487.24 | 1.10 | |
| 2946.00 | 14.500 | 110.600 | 2876.78 | 567.89 | -250.82 | 509.50 | 2.53 | |
| 3036.00 | 15.900 | 113.700 | 2963.63 | 591.42 | -259.74 | 531.34 | 1.80 | |
| 3127.00 | 17.100 | 115.500 | 3050.88 | 617.25 | -270.51 | 554.83 | 1.43 | |
| 3218.00 | 15.500 | 114.400 | 3138.22 | 642.78 | -281.29 | 577.98 | 1.79 | |
| 3309.00 | 14.700 | 116.200 | 3226.08 | 666.48 | -291.41 | 599.41 | 1.02 | |
| 3400.00 | 12.200 | 122.200 | 3314.58 | 687.59 | -301.64 | 617.91 | 3.14 | |
| 3490.00 | 10.200 | 119.000 | 3402.86 | 705.01 | -310.57 | 632.93 | 2.33 | |
| 3581.00 | 7.100 | 119.000 | 3492.82 | 718.69 | -317.20 | 644.90 | 3.41 | |
| 3672.00 | 5.300 | 118.300 | 3583.28 | 728.50 | -321.92 | 653.52 | 1.98 | |
| 3763.00 | 3.300 | 117.300 | 3674.02 | 735.32 | -325.12 | 659.55 | 2.20 | |
| 3853.00 | 1.900 | 146.800 | 3763.93 | 739.20 | -327.55 | 662.67 | 2.10 | |
| 3944.00 | 1.000 | 183.000 | 3854.90 | 740.82 | -329.61 | 663.45 | 1.37 | |



Actual Wellpath Report

PINNACLE 37-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL) |
| Area | COLORADO | Well | PINNACLE 37-2 |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | PINNACLE 37-2 awb |
| Facility | SEC.02-T1N-R68W | | |

WELLPATH DATA (79 stations)

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | DLS [°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|---------------------|
| 4080.00 | 0.800 | 205.800 | 3990.88 | 741.30 | -331.65 | 662.98 | 0.30 | |
| 4216.00 | 0.800 | 290.000 | 4126.88 | 740.36 | -332.18 | 661.67 | 0.79 | |
| 4352.00 | 1.300 | 297.300 | 4262.85 | 737.88 | -331.15 | 659.41 | 0.38 | |
| 4488.00 | 1.000 | 37.100 | 4398.84 | 736.56 | -329.49 | 658.75 | 1.30 | |
| 4624.00 | 1.300 | 86.000 | 4534.81 | 738.11 | -328.44 | 661.01 | 0.73 | |
| 4760.00 | 1.400 | 90.900 | 4670.77 | 740.94 | -328.36 | 664.21 | 0.11 | |
| 4896.00 | 1.000 | 89.500 | 4806.74 | 743.50 | -328.37 | 667.06 | 0.29 | |
| 5033.00 | 0.500 | 200.200 | 4943.74 | 744.63 | -328.92 | 668.05 | 0.92 | |
| 5169.00 | 1.300 | 202.600 | 5079.72 | 744.79 | -330.90 | 667.25 | 0.59 | |
| 5305.00 | 1.300 | 219.200 | 5215.68 | 744.55 | -333.52 | 665.68 | 0.28 | |
| 5441.00 | 1.200 | 214.600 | 5351.65 | 744.01 | -335.89 | 663.90 | 0.10 | |
| 5577.00 | 1.000 | 227.900 | 5487.63 | 743.37 | -337.86 | 662.21 | 0.24 | |
| 5713.00 | 0.900 | 237.400 | 5623.61 | 742.38 | -339.23 | 660.43 | 0.14 | |
| 5849.00 | 0.500 | 254.700 | 5759.60 | 741.39 | -339.96 | 658.95 | 0.33 | |
| 5985.00 | 0.700 | 299.000 | 5895.59 | 740.12 | -339.72 | 657.66 | 0.36 | |
| 6121.00 | 0.400 | 295.800 | 6031.58 | 738.81 | -339.11 | 656.50 | 0.22 | |
| 6257.00 | 0.200 | 257.800 | 6167.58 | 738.15 | -338.95 | 655.84 | 0.20 | |
| 6393.00 | 0.200 | 250.800 | 6303.58 | 737.80 | -339.08 | 655.39 | 0.02 | |
| 6529.00 | 0.200 | 215.600 | 6439.58 | 737.59 | -339.35 | 655.02 | 0.09 | |
| 6665.00 | 0.200 | 218.500 | 6575.58 | 737.51 | -339.73 | 654.74 | 0.01 | |
| 6801.00 | 0.200 | 6.200 | 6711.58 | 737.38 | -339.68 | 654.62 | 0.28 | |
| 6937.00 | 0.100 | 356.300 | 6847.58 | 737.23 | -339.32 | 654.63 | 0.08 | |
| 7073.00 | 0.300 | 157.000 | 6983.58 | 737.44 | -339.53 | 654.77 | 0.29 | |
| 7212.00 | 0.200 | 301.800 | 7122.58 | 737.48 | -339.74 | 654.70 | 0.34 | |
| 7348.00 | 1.000 | 323.600 | 7258.57 | 736.19 | -338.66 | 653.80 | 0.60 | |
| 7484.00 | 0.700 | 351.000 | 7394.55 | 734.65 | -336.88 | 652.96 | 0.37 | |
| 7620.00 | 0.400 | 37.500 | 7530.55 | 734.26 | -335.69 | 653.12 | 0.38 | |
| 7756.00 | 0.600 | 90.900 | 7666.54 | 735.00 | -335.32 | 654.12 | 0.36 | |
| 7892.00 | 0.800 | 86.300 | 7802.53 | 736.46 | -335.27 | 655.78 | 0.15 | |
| 8028.00 | 1.000 | 90.900 | 7938.52 | 738.35 | -335.23 | 657.91 | 0.16 | |
| 8164.00 | 0.800 | 107.800 | 8074.50 | 740.36 | -335.54 | 660.01 | 0.24 | |
| 8300.00 | 0.300 | 102.800 | 8210.49 | 741.65 | -335.91 | 661.26 | 0.37 | |
| 8355.00 | 0.600 | 63.100 | 8265.49 | 741.96 | -335.81 | 661.65 | 0.76 | LAST BHI MWD SURVEY |
| 8405.00 | 0.600 | 63.100 | 8315.49 | 742.27 | -335.57 | 662.12 | 0.00 | PROJECTION TO BIT |



Actual Wellpath Report

PINNACLE 37-2 awp

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INTEQ

| REFERENCE WELLPATH IDENTIFICATION | | | |
|-----------------------------------|---------------------------------|----------|--|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL) |
| Area | COLORADO | Well | PINNACLE 37-2 |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | PINNACLE 37-2 awb |
| Facility | SEC.02-T1N-R68W | | |

| HOLE & CASING SECTIONS Ref Wellbore: PINNACLE 37-2 awb Ref Wellpath: PINNACLE 37-2 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] |
| 12.25in Open Hole | 15.00 | 932.00 | 917.00 | 15.00 | 928.67 | 0.00 | 0.00 | -30.71 | 60.33 |
| 8.625in Casing Surface | 15.00 | 920.00 | 905.00 | 15.00 | 916.73 | 0.00 | 0.00 | -30.11 | 59.32 |
| 7.875in Open Hole | 920.00 | 8405.00 | 7485.00 | 916.73 | 8315.49 | -30.11 | 59.32 | -335.57 | 662.12 |

| TARGETS | | | | | | | | | |
|--|---------|----------|------------|-----------|--------------------|---------------------|----------------|-----------------|--------|
| Name | MD [ft] | TVD [ft] | North [ft] | East [ft] | Grid East [srv ft] | Grid North [srv ft] | Latitude | Longitude | Shape |
| PINNACLE 37-2 GEO TARGET 50' RADIUS (50'FSL & 1315'FEL, REV-1) | | 6000.00 | -329.67 | 664.68 | 3149489.10 | 1269984.62 | 40°04'23.743"N | 104°57'56.974"W | circle |
| PINNACLE 37-2 HARDLINE 50'S OF GEO TARGET | | 6000.00 | -379.67 | 664.68 | 3149489.40 | 1269934.63 | 40°04'23.249"N | 104°57'56.974"W | point |

| WELLPATH COMPOSITION Ref Wellbore: PINNACLE 37-2 awb Ref Wellpath: PINNACLE 37-2 awp | | | | |
|--|-------------|------------------------------|------------------------------------|-------------------|
| Start MD [ft] | End MD [ft] | Positional Uncertainty Model | Log Name/Comment | Wellbore |
| 15.00 | 877.00 | NaviTrak (Standard) | BHI NAVITRAK 12.225 HOLE <149-877> | PINNACLE 37-2 awb |
| 877.00 | 8355.00 | NaviTrak (Standard) | BHI NAVITRAK 7.875 HOLE <948-8355> | PINNACLE 37-2 awb |
| 8355.00 | 8405.00 | Blind Drilling (std) | Projection to bit | PINNACLE 37-2 awb |



Actual Wellpath Report

PINNACLE 37-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

| | | | |
|----------|---------------------------------|----------|--|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot | SLOT#15 PINNACLE 37-2 (386'FSL & 1978'FEL) |
| Area | COLORADO | Well | PINNACLE 37-2 |
| Field | WELD COUNTY (KERR MCGEE) | Wellbore | PINNACLE 37-2 awb |
| Facility | SEC.02-T1N-R68W | | |

WELLPATH COMMENTS

| MD [ft] | Inclination [°] | Azimuth [°] | TVD [ft] | Comment |
|------------|--------------------|----------------|-------------|---------------------|
| 8355.00 | 0.600 | 63.100 | 8265.49 | LAST BHI MWD SURVEY |
| 8405.00 | 0.600 | 63.100 | 8315.49 | PROJECTION TO BIT |