

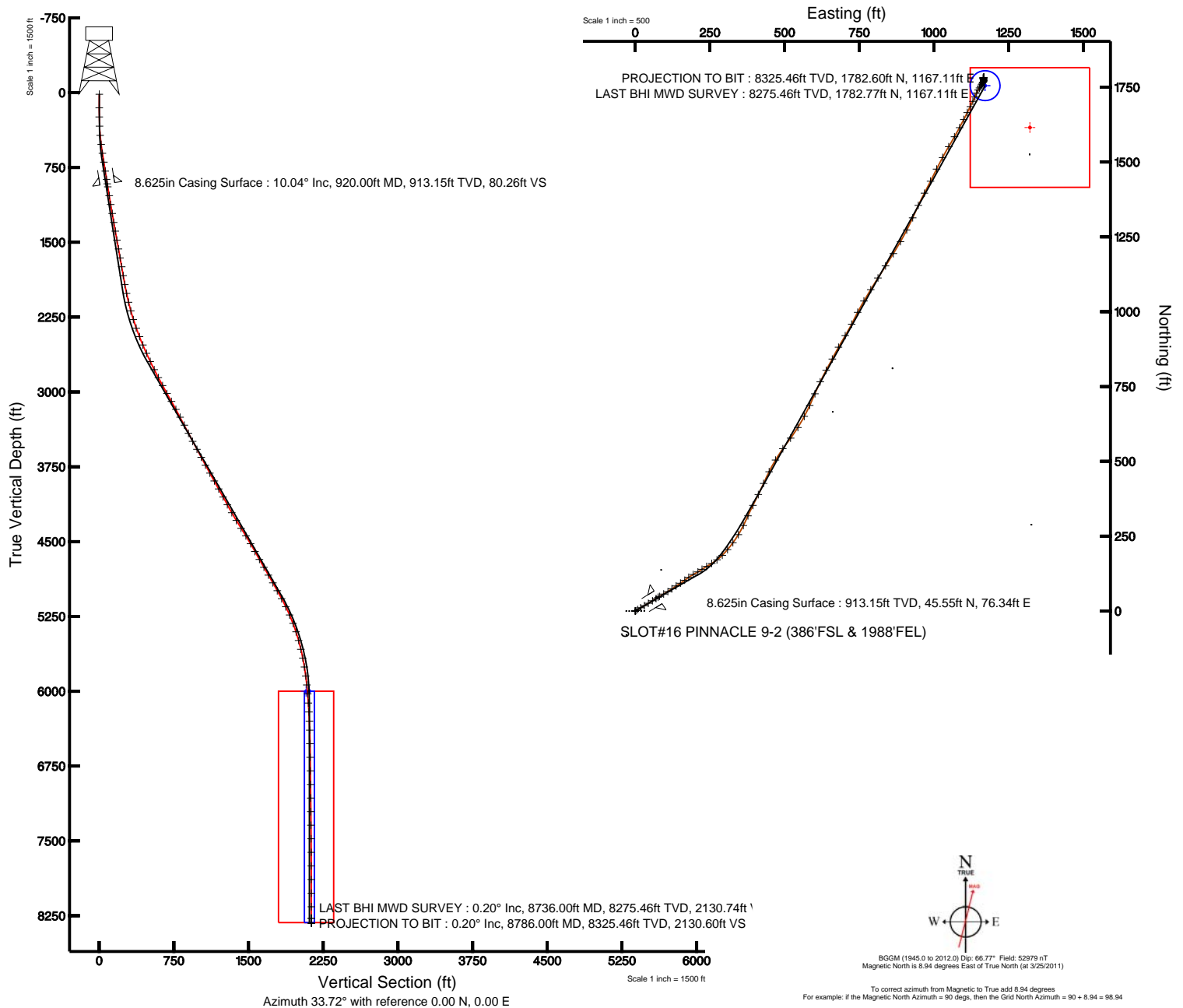


KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#16 PINNACLE 9-2 (386'FSL & 1988'FEL)
Field: WELD COUNTY (KERR MCGEE) Well: PINNACLE 9-2
Facility: SEC.02-T1N-R68W Wellbore: PINNACLE 9-2 PWB



Plot reference wellpath is PINNACLE 9-2 (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: cookdarm on 6/8/2011





Actual Wellpath Report

PINNACLE 9-2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PINNACLE 9-2 (386'FSL & 1988'FEL)
Area	COLORADO	Well	PINNACLE 9-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 9-2 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 12:02:09 PM
Convergence at slot	0.34° East	Database/Source file	WA_DENVER/PINNACLE_9-2_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-871.70	1634.94	3148812.69	1270310.24	40°04'27.001"N	104°58'05.650"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	33.72°



Actual Wellpath Report

PINNACLE 9-2 AWP

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REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	PINNACLE 9-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 9-2 AWP
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (92 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	241.000	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	241.000	15.00	0.00	0.00	0.00	0.00	
151.00	0.300	241.000	151.00	-0.32	-0.17	-0.31	0.22	
243.00	0.600	86.700	243.00	-0.24	-0.26	-0.04	0.96	
335.00	2.900	62.100	334.95	2.10	0.86	2.50	2.57	
428.00	6.000	55.600	427.66	8.68	4.70	8.59	3.37	
519.00	8.000	60.000	517.98	18.77	10.56	18.00	2.27	
610.00	10.000	60.600	607.85	31.50	17.60	30.37	2.20	
700.00	10.000	58.200	696.48	45.58	25.56	43.82	0.46	
791.00	9.900	59.200	786.12	59.83	33.73	57.25	0.22	
875.00	10.100	57.800	868.84	73.07	41.35	69.68	0.37	
950.00	10.000	57.500	942.69	85.04	48.35	80.74	0.15	
1040.00	10.800	62.400	1031.21	99.59	56.46	94.81	1.32	
1131.00	10.400	58.200	1120.66	114.54	64.73	109.34	0.96	
1222.00	10.200	52.200	1210.20	129.66	74.00	122.69	1.20	
1313.00	11.100	58.500	1299.63	145.25	83.52	136.53	1.62	
1403.00	11.000	57.100	1387.96	161.00	92.71	151.12	0.32	
1494.00	10.800	54.000	1477.32	176.97	102.44	165.31	0.68	
1585.00	10.400	54.000	1566.77	192.67	112.27	178.85	0.44	
1676.00	12.100	62.400	1656.02	208.74	121.52	193.95	2.59	
1767.00	10.800	59.200	1745.21	224.81	130.31	209.73	1.59	
1857.00	10.300	55.700	1833.69	239.88	139.16	223.62	0.90	
1948.00	12.500	60.600	1922.89	256.21	148.58	238.92	2.64	
2039.00	12.600	58.200	2011.72	274.03	158.64	255.94	0.58	
2130.00	14.600	54.000	2100.16	293.82	170.62	273.65	2.45	
2220.00	15.500	44.200	2187.09	316.29	185.91	291.22	2.99	
2311.00	17.500	41.300	2274.34	341.81	204.91	308.73	2.38	
2402.00	20.000	36.000	2360.51	370.93	227.78	326.91	3.32	
2493.00	22.100	31.800	2445.44	403.59	254.92	345.08	2.84	
2583.00	23.100	25.900	2528.54	438.01	285.20	361.71	2.75	
2674.00	23.600	25.000	2612.08	473.70	317.77	377.21	0.67	
2765.00	26.500	26.200	2694.51	511.84	352.50	393.87	3.24	
2856.00	26.300	26.600	2776.02	551.98	388.74	411.87	0.29	
2946.00	28.200	24.400	2856.03	592.75	425.94	429.58	2.39	
3037.00	28.800	26.200	2936.01	635.70	465.19	448.14	1.15	
3128.00	29.500	31.100	3015.49	679.82	504.05	469.39	2.73	
3219.00	30.100	35.300	3094.47	725.02	541.86	494.16	2.39	
3310.00	28.000	36.700	3174.02	769.16	577.62	520.11	2.43	
3400.00	29.000	32.200	3253.12	812.08	613.02	544.37	2.63	
3491.00	27.200	27.600	3333.40	854.82	650.12	565.76	3.09	
3582.00	26.800	25.500	3414.48	895.80	687.07	584.23	1.14	
3673.00	28.700	22.700	3495.02	937.56	725.75	601.49	2.53	
3764.00	28.800	25.500	3574.80	980.70	765.70	619.36	1.48	
3855.00	28.300	29.400	3654.74	1023.91	804.28	639.39	2.12	
3945.00	28.400	27.600	3733.95	1066.47	841.83	659.78	0.96	



Actual Wellpath Report

PINNACLE 9-2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PINNACLE 9-2 (386'FSL & 1988'FEL)
Area	COLORADO	Well	PINNACLE 9-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 9-2 AWP
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4036.00	30.100	28.000	3813.34	1110.69	881.16	680.52	1.88	
4127.00	29.000	32.500	3892.52	1155.46	919.92	703.09	2.72	
4218.00	29.100	26.200	3972.09	1199.46	958.39	724.72	3.36	
4309.00	29.300	27.300	4051.52	1243.53	998.03	744.70	0.63	
4399.00	28.300	30.800	4130.40	1286.72	1035.93	765.73	2.18	
4490.00	29.600	31.500	4210.02	1330.72	1073.62	788.52	1.48	
4581.00	30.900	31.800	4288.63	1376.54	1112.64	812.57	1.44	
4672.00	32.300	32.500	4366.14	1424.20	1153.01	837.95	1.59	
4763.00	32.500	32.500	4442.97	1472.95	1194.13	864.15	0.22	
4854.00	29.400	29.400	4521.01	1519.68	1234.22	888.26	3.83	
4944.00	29.100	27.300	4599.53	1563.46	1272.92	909.14	1.19	
5035.00	30.700	24.400	4678.42	1608.37	1313.74	928.89	2.37	
5126.00	29.600	24.800	4757.11	1653.50	1355.30	947.91	1.23	
5217.00	30.400	28.000	4835.92	1698.62	1396.03	968.15	1.97	
5307.00	30.000	26.200	4913.71	1743.58	1436.33	988.77	1.10	
5398.00	29.400	26.900	4992.76	1788.32	1476.66	1008.92	0.76	
5489.00	28.000	28.300	5072.58	1831.76	1515.39	1029.16	1.71	
5580.00	25.900	30.800	5153.69	1872.88	1551.28	1049.46	2.62	
5671.00	24.400	29.700	5236.06	1911.48	1584.68	1068.95	1.73	
5761.00	21.400	28.700	5318.96	1946.39	1615.23	1086.05	3.36	
5852.00	17.800	25.100	5404.68	1976.69	1642.40	1099.93	4.17	
5943.00	15.400	28.300	5491.88	2002.48	1665.64	1111.56	2.82	
6034.00	13.400	26.900	5580.02	2024.98	1685.68	1122.06	2.23	
6124.00	11.500	25.100	5667.90	2044.21	1703.11	1130.59	2.15	
6215.00	9.300	24.400	5757.39	2060.43	1718.02	1137.47	2.42	
6306.00	8.200	21.600	5847.33	2074.04	1730.75	1142.90	1.30	
6397.00	6.000	34.600	5937.64	2085.14	1740.70	1147.99	2.98	
6487.00	4.800	32.200	6027.24	2093.61	1747.76	1152.67	1.36	
6578.00	3.900	30.400	6117.97	2100.50	1753.65	1156.26	1.00	
6669.00	3.400	30.100	6208.79	2106.28	1758.66	1159.18	0.55	
6760.00	2.800	32.900	6299.65	2111.20	1762.86	1161.74	0.68	
6851.00	1.000	45.500	6390.60	2114.20	1765.28	1163.52	2.02	
6987.00	0.900	43.100	6526.58	2116.42	1766.89	1165.09	0.08	
7123.00	1.100	20.200	6662.56	2118.74	1768.90	1166.27	0.33	
7259.00	1.000	3.700	6798.54	2121.04	1771.31	1166.80	0.23	
7395.00	0.800	356.600	6934.52	2122.82	1773.44	1166.82	0.17	
7531.00	0.700	338.300	7070.51	2124.05	1775.16	1166.46	0.19	
7668.00	0.700	347.500	7207.50	2125.10	1776.75	1165.97	0.08	
7804.00	0.800	348.200	7343.49	2126.34	1778.49	1165.59	0.07	
7940.00	1.000	352.800	7479.47	2127.91	1780.60	1165.25	0.16	
8076.00	0.200	41.700	7615.46	2129.04	1781.95	1165.26	0.65	
8212.00	0.300	94.800	7751.46	2129.44	1782.10	1165.77	0.18	
8348.00	0.300	65.600	7887.46	2129.92	1782.22	1166.45	0.11	
8485.00	0.200	22.300	8024.46	2130.46	1782.59	1166.87	0.15	
8621.00	0.100	42.000	8160.46	2130.81	1782.90	1167.04	0.08	



Actual Wellpath Report

PINNACLE 9-2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#16 PINNACLE 9-2 (386'FSL & 1988'FEL)
Area	COLORADO	Well	PINNACLE 9-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 9-2 AWB
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (92 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8736.00	0.200	179.300	8275.46	2130.74	1782.77	1167.11	0.25	LAST BHI MWD SURVEY
8786.00	0.200	179.300	8325.46	2130.60	1782.60	1167.11	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: PINNACLE 9-2 AWB Ref Wellpath: PINNACLE 9-2 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	930.00	915.00	15.00	922.99	0.00	0.00	46.48	77.81
8.625in Casing Surface	15.00	920.00	905.00	15.00	913.15	0.00	0.00	45.55	76.34
7.875in Open Hole	920.00	8786.00	7866.00	913.15	8325.46	45.55	76.34	1782.60	1167.11

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
PINNACLE 9-2 BHL ON PLAT (2130'FSL & 810'FEL, REV-1)		6000.00	1755.55	1170.57	3149972.66	1272072.70	40°04'44.350"N	104°57'50.591"W	point
PINNACLE 9-2 GEO TARGET 50' RADIUS (2130'FSL & 809'FEL, REV-2)		6000.00	1755.55	1171.57	3149973.66	1272072.71	40°04'44.350"N	104°57'50.578"W	circle
PINNACLE 9-2 LEGAL BOX (60'N,340'S,50'E,350'W OF THE GEO TARGET)		6000.00	1615.55	1321.57	3150124.49	1271933.62	40°04'42.966"N	104°57'48.648"W	square

WELLPATH COMPOSITION Ref Wellbore: PINNACLE 9-2 AWB Ref Wellpath: PINNACLE 9-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	875.00	NaviTrak (Standard)	BHI NAVITRAK 12.25 HOLE <151-875>	PINNACLE 9-2 AWB
875.00	8736.00	NaviTrak (Standard)	BHI NAVITRAK 7.875 HOLE <950-8736>	PINNACLE 9-2 AWB
8736.00	8786.00	Blind Drilling (std)	Projection to bit	PINNACLE 9-2 AWB



Actual Wellpath Report

PINNACLE 9-2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	PINNACLE 9-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 9-2 AWB
Facility	SEC.02-T1N-R68W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8736.00	0.200	179.300	8275.46	LAST BHI MWD SURVEY
8786.00	0.200	179.300	8325.46	PROJECTION TO BIT