





# Actual Wellpath Report

PINNACLE 23-2 AWP

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#19 PINNACLE 23-2 (386'FSL & 2018'FEL)
Area	COLORADO	Well	PINNACLE 23-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 23-2 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 1:35:49 PM
Convergence at slot	0.34° East	Database/Source file	WA_DENVER/PINNACLE_23-2_AWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	-872.06	1604.72	3148782.47	1270309.69	40°04'26.998"N	104°58'06.038"W
Facility Reference Pt			3147172.67	1271172.18	40°04'35.616"N	104°58'26.681"W
Field Reference Pt			<b>3197771.84</b>	<b>1268891.29</b>	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	329.05°



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## WELLPATH DATA (82 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	101.400	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	101.400	15.00	0.00	0.00	0.00	0.00	
150.00	1.300	101.400	149.99	-1.03	-0.30	1.50	0.96	
242.00	1.100	29.400	241.97	-1.30	0.26	2.96	1.54	
334.00	2.500	336.300	333.93	1.13	2.87	2.58	2.22	
426.00	5.300	325.000	425.71	7.36	8.19	-0.66	3.14	
518.00	7.100	325.700	517.17	17.27	16.36	-6.30	1.96	
609.00	8.600	327.800	607.31	29.69	26.77	-13.10	1.68	
700.00	9.500	327.800	697.18	44.00	38.88	-20.72	0.99	
790.00	9.300	330.600	785.97	58.70	51.50	-28.25	0.55	
879.00	10.700	332.800	873.62	74.13	65.12	-35.56	1.63	
994.00	10.600	333.800	986.64	95.33	84.10	-45.11	0.18	
1085.00	11.500	333.100	1075.95	112.72	99.70	-52.91	1.00	
1175.00	12.100	325.700	1164.05	131.08	115.50	-62.28	1.81	
1266.00	13.700	325.400	1252.75	151.36	132.25	-73.78	1.76	
1357.00	15.800	327.800	1340.75	174.50	151.60	-86.50	2.40	
1448.00	17.100	330.000	1428.02	200.27	173.67	-99.79	1.58	
1538.00	17.800	328.500	1513.88	227.25	196.86	-113.60	0.92	
1629.00	17.200	328.500	1600.67	254.62	220.19	-127.89	0.66	
1720.00	17.100	328.200	1687.62	281.45	243.04	-141.97	0.15	
1811.00	16.700	327.800	1774.69	307.90	265.47	-155.99	0.46	
1902.00	16.600	328.900	1861.88	333.97	287.66	-169.67	0.36	
1992.00	17.600	329.600	1947.90	360.43	310.41	-183.20	1.13	
2083.00	17.100	329.600	2034.76	387.57	333.82	-196.93	0.55	
2174.00	16.700	327.500	2121.83	414.01	356.38	-210.73	0.80	
2265.00	15.900	327.800	2209.17	439.55	377.96	-224.39	0.88	
2355.00	16.300	326.400	2295.64	464.49	398.91	-237.95	0.62	
2446.00	16.900	324.700	2382.85	490.43	420.34	-252.66	0.85	
2537.00	16.300	324.000	2470.05	516.34	441.47	-267.81	0.69	
2628.00	16.300	325.400	2557.40	541.81	462.31	-282.57	0.43	
2719.00	15.400	326.400	2644.94	566.62	482.89	-296.51	1.03	
2810.00	15.900	325.000	2732.56	591.13	503.16	-310.35	0.69	
2901.00	16.400	326.800	2819.97	616.40	524.12	-324.53	0.78	
2991.00	17.400	333.100	2906.09	642.52	546.76	-337.58	2.32	
3082.00	17.300	332.800	2992.95	669.60	570.93	-349.92	0.15	
3173.00	17.200	333.100	3079.86	696.52	594.96	-362.19	0.15	
3264.00	16.700	331.400	3166.90	723.00	618.44	-374.54	0.77	
3355.00	17.100	331.700	3253.97	749.43	641.70	-387.14	0.45	
3445.00	17.700	332.400	3339.86	776.31	665.47	-399.75	0.71	
3536.00	17.400	331.300	3426.62	803.71	689.67	-412.69	0.49	
3627.00	17.300	324.700	3513.49	830.80	712.65	-427.05	2.16	
3718.00	18.000	326.100	3600.20	858.34	735.36	-442.71	0.90	
3809.00	15.800	325.400	3687.27	884.75	757.23	-457.59	2.43	
3899.00	16.500	333.800	3773.73	909.71	778.79	-470.19	2.71	
3990.00	16.100	336.600	3861.07	935.10	801.96	-480.91	0.97	



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Area	COLORADO	Well	PINNACLE 23-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 23-2 AWB
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (82 stations)								
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4081.00	16.400	340.500	3948.44	960.20	825.65	-490.21	1.24	
4172.00	15.200	336.600	4036.00	984.62	848.71	-499.23	1.76	
4263.00	12.600	334.900	4124.33	1006.32	868.65	-508.18	2.89	
4353.00	11.500	329.600	4212.35	1025.06	885.28	-516.89	1.73	
4444.00	10.100	328.500	4301.73	1042.11	899.91	-525.65	1.55	
4535.00	8.800	329.600	4391.50	1057.05	912.72	-533.34	1.44	
4626.00	7.400	329.900	4481.59	1069.87	923.79	-539.80	1.54	
4716.00	6.300	327.800	4570.94	1080.61	932.99	-545.34	1.25	
4807.00	4.000	315.900	4661.57	1088.69	939.49	-550.21	2.77	
4898.00	1.800	305.000	4752.45	1093.09	942.59	-553.59	2.48	
4989.00	1.800	305.300	4843.41	1095.70	944.24	-555.93	0.01	
5079.00	1.700	303.900	4933.36	1098.20	945.80	-558.19	0.12	
5215.00	1.000	341.600	5069.33	1101.19	948.05	-560.24	0.81	
5351.00	1.000	330.300	5205.31	1103.53	950.21	-561.20	0.14	
5487.00	1.000	322.600	5341.29	1105.90	952.18	-562.51	0.10	
5623.00	1.300	315.200	5477.26	1108.57	954.22	-564.32	0.25	
5759.00	1.000	313.000	5613.23	1111.21	956.12	-566.27	0.22	
5895.00	0.800	318.000	5749.21	1113.28	957.64	-567.77	0.16	
6031.00	0.800	344.000	5885.20	1115.13	959.25	-568.67	0.26	
6167.00	1.100	0.500	6021.18	1117.16	961.47	-568.92	0.30	
6302.00	0.600	358.800	6156.17	1118.88	963.47	-568.93	0.37	
6439.00	0.400	281.100	6293.16	1119.83	964.28	-569.41	0.47	
6575.00	0.400	269.100	6429.16	1120.38	964.37	-570.35	0.06	
6710.00	0.500	262.400	6564.16	1120.85	964.28	-571.40	0.08	
6847.00	0.500	279.600	6701.15	1121.48	964.30	-572.59	0.11	
6983.00	0.600	303.600	6837.15	1122.51	964.80	-573.77	0.18	
7120.00	0.600	324.300	6974.14	1123.87	965.78	-574.78	0.16	
7256.00	0.500	317.300	7110.13	1125.16	966.79	-575.60	0.09	
7392.00	0.300	332.400	7246.13	1126.10	967.54	-576.17	0.17	
7528.00	0.200	356.700	7382.13	1126.66	968.09	-576.35	0.11	
7664.00	0.700	9.700	7518.12	1127.50	969.15	-576.22	0.37	
7936.00	0.700	22.000	7790.10	1129.76	972.33	-575.32	0.06	
8073.00	0.600	17.400	7927.09	1130.74	973.79	-574.79	0.08	
8209.00	0.400	12.800	8063.09	1131.56	974.93	-574.47	0.15	
8345.00	0.600	359.100	8199.08	1132.52	976.11	-574.38	0.17	
8415.00	0.600	348.200	8269.08	1133.18	976.83	-574.46	0.16	LAST BHI MWD SURVEY
8465.00	0.600	348.200	8319.08	1133.68	977.34	-574.56	0.00	PROJECTION TO BIT



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Area	COLORADO	Well	PINNACLE 23-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PINNACLE 23-2 AWB
Facility	SEC.02-T1N-R68W		

## HOLE & CASING SECTIONS Ref Wellbore: PINNACLE 23-2 AWB Ref Wellpath: PINNACLE 23-2 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	934.00	919.00	15.00	927.66	0.00	0.00	74.20	-40.18
8.625in Casing Surface	15.00	934.00	919.00	15.00	927.66	0.00	0.00	74.20	-40.18
7.875in Open Hole	934.00	8465.00	7531.00	927.66	8319.08	74.20	-40.18	977.34	-574.56

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
PINNACLE 23-2 GEO TARGET 50' RADIUS (1335'FSL & 2580'FEL, REV-1)		6000.00	943.52	-565.86	3148210.99	1271249.76	40°04'36.322"N	104°58'13.318"W	circle
PINNACLE 23-2 HARDLINE 51'W OF GEO TARGET		6000.00	943.52	-616.86	3148159.98	1271249.46	40°04'36.322"N	104°58'13.974"W	point

## WELLPATH COMPOSITION Ref Wellbore: PINNACLE 23-2 AWB Ref Wellpath: PINNACLE 23-2 AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	879.00	NaviTrak (Standard)	BHI NAVITRAK 12.25 HOLE <150-879>	PINNACLE 23-2 AWB
879.00	8415.00	NaviTrak (Standard)	BHI NAVITRAK 7.875 HOLE <994-8415>	PINNACLE 23-2 AWB
8415.00	8465.00	Blind Drilling (std)	Projection to bit	PINNACLE 23-2 AWB



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Area	<b>COLORADO</b>	Well	<b>PINNACLE 23-2</b>
Field	<b>WELD COUNTY (KERR MCGEE)</b>	Wellbore	<b>PINNACLE 23-2 AWB</b>
Facility	<b>SEC.02-T1N-R68W</b>		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8415.00	0.600	348.200	8269.08	LAST BHI MWD SURVEY
8465.00	0.600	348.200	8319.08	PROJECTION TO BIT