



KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#07 PEAKS 12-2 (1297'FSL & 1592'FWL)
Field: WELD COUNTY (KERR MCGEE) Well: PEAKS 12-2
Facility: SEC.02-T1N-R68W Wellbore: PEAKS 12-2 PWB



Plot reference wellpath is PEAKS 12-2 (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: 5047 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: cookdam on 5/18/2011

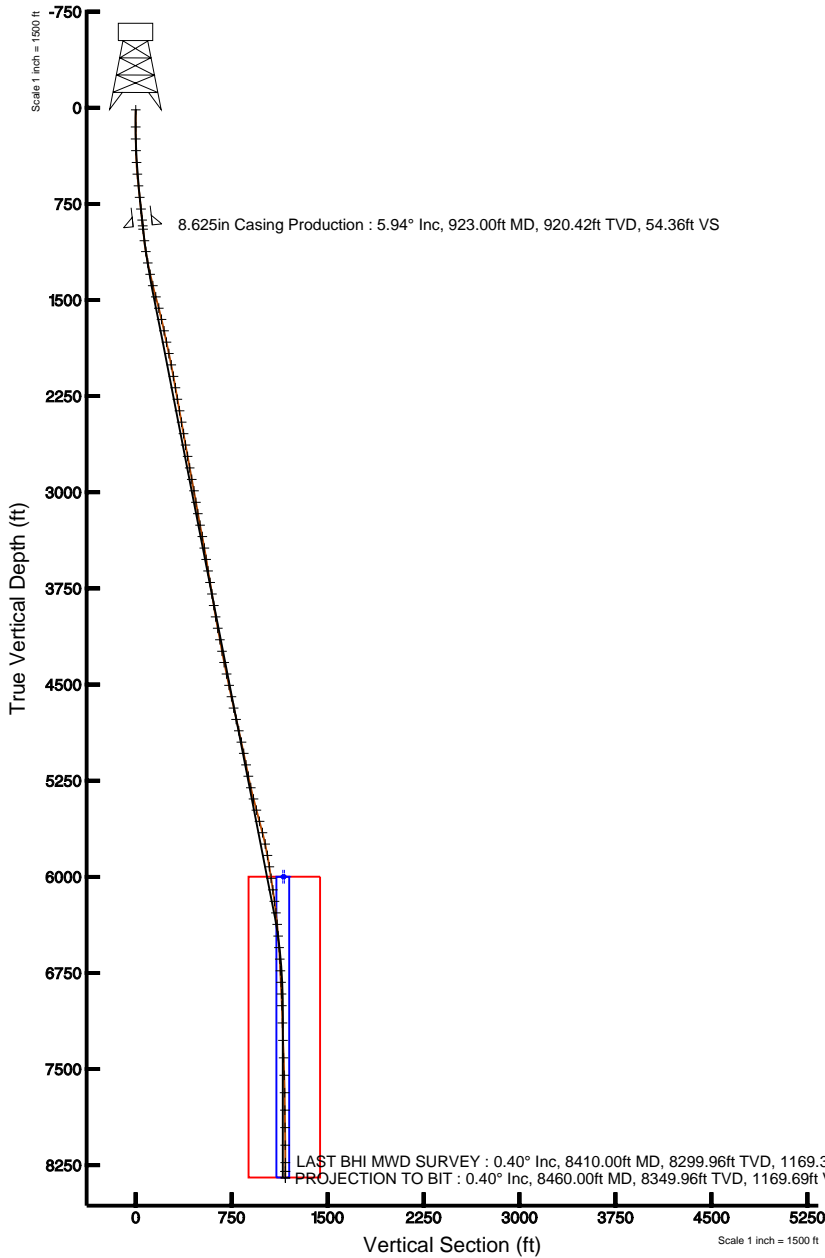
Scale 1 inch = 500
Easting (ft)
-2000 -1750 -1500 -1250 -1000 -750 -500 -250 0

PROJECTION TO BIT : 8349.96ft TVD, 682.05ft N, 950.28ft W
LAST BHI MWD SURVEY : 8299.96ft TVD, 681.77ft N, 950.08ft W

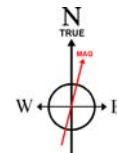
8.625in Casing Production : 920.42ft TVD, 30.31ft N, 45.18ft W
SLOT#07 PEAKS 12-2 (1297'FSL & 1592'FWL)

8.625in Casing Production : 5.94° Inc, 923.00ft MD, 920.42ft TVD, 54.36ft VS

LAST BHI MWD SURVEY : 0.40° Inc, 8410.00ft MD, 8299.96ft TVD, 1169.36ft VS
PROJECTION TO BIT : 0.40° Inc, 8460.00ft MD, 8349.96ft TVD, 1169.69ft VS



Azimuth 306.01° with reference 0.00 N, 0.00 E



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

PEAKS 12-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 PEAKS 12-2 (1297'FSL & 1592'FWL)
Area	COLORADO	Well	PEAKS 12-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PEAKS 12-2 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	0.999961	Report Generated	5/18/2011 at 5:07:07 PM
Convergence at slot	0.34° East	Database/Source file	Denver Server/PEAKS_12-2_awb.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	24.04	-54.85	3147117.68	1271195.90	40°04'35.854"N	104°58'27.386"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	5047.00ft
Horizontal Reference Pt	Slot	XTREME 12 (RKB) to Mean Sea Level	5047.00ft
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	306.01°



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	PEAKS 12-2 awb
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (91 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00†	0.000	150.000	0.00	0.00	0.00	0.00	0.00	
15.00	0.000	150.000	15.00	0.00	0.00	0.00	0.00	
149.00	0.700	150.000	149.00	-0.75	-0.71	0.41	0.52	
242.00	0.700	288.500	241.99	-0.73	-1.02	0.15	1.41	
334.00	2.000	305.300	333.97	1.42	0.09	-1.69	1.46	
426.00	3.300	307.800	425.87	5.67	2.64	-5.09	1.42	
518.00	5.000	306.000	517.62	12.32	6.62	-10.43	1.85	
609.00	5.700	305.000	608.22	20.81	11.54	-17.34	0.78	
699.00	6.300	303.900	697.73	30.21	16.86	-25.10	0.68	
791.00	6.200	302.900	789.18	40.22	22.37	-33.46	0.16	
878.00	6.200	304.300	875.68	49.60	27.57	-41.28	0.17	
949.00	5.800	307.100	946.29	57.02	31.89	-47.31	0.70	
1040.00	7.100	311.700	1036.71	67.22	38.41	-55.18	1.54	
1125.00	8.400	309.900	1120.93	78.64	45.89	-63.86	1.56	
1215.00	10.900	312.400	1209.65	93.66	55.84	-75.19	2.82	
1306.00	12.400	308.000	1298.78	111.97	67.66	-89.25	1.91	
1397.00	14.400	311.300	1387.30	133.01	81.15	-105.45	2.35	
1488.00	15.600	310.300	1475.19	156.48	96.53	-123.28	1.35	
1579.00	14.600	308.800	1563.05	180.14	111.63	-141.55	1.18	
1669.00	12.700	303.600	1650.51	201.35	124.21	-158.64	2.51	
1760.00	12.000	296.600	1739.41	220.68	133.99	-175.43	1.81	
1851.00	12.200	308.200	1828.40	239.62	144.17	-191.44	2.68	
1942.00	12.200	310.300	1917.34	258.82	156.33	-206.33	0.49	
2032.00	11.400	304.600	2005.44	277.20	167.54	-220.91	1.57	
2123.00	10.100	302.200	2094.84	294.15	176.90	-235.06	1.51	
2214.00	9.400	296.600	2184.53	309.44	184.48	-248.46	1.29	
2305.00	10.400	306.400	2274.18	324.99	192.68	-261.72	2.15	
2396.00	10.900	303.900	2363.61	341.80	202.35	-275.47	0.75	
2486.00	9.800	304.300	2452.15	357.96	211.41	-288.86	1.22	
2577.00	9.700	304.300	2541.83	373.36	220.10	-301.59	0.11	
2668.00	10.100	313.100	2631.48	388.95	229.87	-313.75	1.72	
2758.00	10.900	309.200	2719.98	405.27	240.64	-326.11	1.19	
2849.00	9.500	305.700	2809.54	421.38	250.46	-338.88	1.68	
2940.00	11.200	312.400	2899.06	437.67	260.80	-351.50	2.29	
3031.00	10.700	306.400	2988.40	454.90	271.78	-364.83	1.37	
3122.00	8.900	306.700	3078.07	470.39	281.00	-377.27	1.98	
3212.00	9.900	310.300	3166.86	485.07	290.16	-388.76	1.29	
3303.00	12.000	308.200	3256.20	502.32	301.07	-402.16	2.35	
3394.00	10.800	306.400	3345.41	520.30	311.98	-416.46	1.38	
3485.00	9.100	304.300	3435.03	536.02	321.10	-429.26	1.91	
3575.00	9.200	301.100	3523.89	550.30	328.83	-441.30	0.58	
3666.00	10.300	295.100	3613.58	565.54	336.04	-454.90	1.64	
3757.00	9.500	295.500	3703.22	580.91	342.72	-469.05	0.88	
3848.00	9.700	285.700	3792.95	595.49	348.03	-483.21	1.81	
3939.00	9.300	288.100	3882.70	609.67	352.39	-497.58	0.62	



Actual Wellpath Report

PEAKS 12-2 awp

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REFERENCE WELLPATH IDENTIFICATION

Operator	KERR MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#07 PEAKS 12-2 (1297'FSL & 1592'FWL)
Area	COLORADO	Well	PEAKS 12-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PEAKS 12-2 awb
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
4029.00	9.700	302.500	3971.48	624.16	358.72	-510.88	2.67	
4120.00	11.300	306.000	4060.96	640.73	368.08	-524.56	1.89	
4211.00	10.700	307.800	4150.28	658.09	378.50	-538.45	0.76	
4302.00	10.200	320.100	4239.79	674.35	389.86	-550.30	2.51	
4392.00	11.200	315.500	4328.22	690.70	402.21	-561.54	1.46	
4483.00	13.200	317.600	4417.16	709.60	416.18	-574.74	2.25	
4574.00	12.400	313.400	4505.90	729.47	430.57	-588.84	1.35	
4665.00	10.800	312.700	4595.04	747.63	443.07	-602.21	1.77	
4755.00	11.700	317.600	4683.31	764.94	455.52	-614.56	1.46	
4846.00	12.900	309.600	4772.23	784.12	468.81	-628.61	2.29	
4937.00	14.100	308.500	4860.71	805.33	482.19	-645.11	1.35	
5028.00	12.300	306.700	4949.30	826.10	494.88	-661.56	2.03	
5118.00	11.300	304.300	5037.40	844.50	505.58	-676.53	1.24	
5209.00	11.200	307.000	5126.65	862.25	515.93	-690.95	0.59	
5300.00	11.300	312.200	5215.91	879.95	527.23	-704.62	1.12	
5391.00	13.100	316.600	5304.85	898.95	540.72	-718.31	2.22	
5482.00	14.800	320.400	5393.17	920.35	557.17	-732.80	2.12	
5572.00	15.300	318.000	5480.08	943.10	574.85	-748.08	0.89	
5663.00	15.900	305.000	5567.75	967.32	590.92	-766.33	3.89	
5754.00	13.900	304.300	5655.69	990.71	604.24	-785.57	2.21	
5845.00	12.300	301.500	5744.32	1011.30	615.46	-802.86	1.89	
5936.00	9.900	306.700	5833.61	1028.78	625.20	-817.40	2.86	
6026.00	9.500	302.500	5922.33	1043.93	633.82	-829.87	0.90	
6117.00	8.900	293.000	6012.16	1058.29	640.60	-842.69	1.79	
6208.00	8.100	290.600	6102.16	1071.33	645.61	-855.17	0.96	
6299.00	8.400	290.200	6192.22	1083.90	650.16	-867.41	0.34	
6390.00	7.300	286.400	6282.37	1095.75	654.09	-879.19	1.34	
6480.00	6.200	278.300	6371.74	1105.43	656.40	-889.48	1.61	
6571.00	5.100	279.700	6462.30	1113.41	657.79	-898.33	1.22	
6662.00	4.300	281.100	6552.99	1120.13	659.13	-905.67	0.89	
6752.00	3.800	283.200	6642.77	1125.94	660.46	-911.88	0.58	
6843.00	3.000	285.000	6733.61	1130.94	661.77	-917.12	0.89	
6933.00	2.700	288.500	6823.50	1135.16	663.05	-921.40	0.39	
7024.00	2.500	294.400	6914.40	1139.15	664.55	-925.24	0.37	
7115.00	1.500	320.800	7005.35	1142.25	666.29	-927.81	1.47	
7251.00	1.900	311.000	7141.29	1146.21	669.15	-930.63	0.36	
7387.00	2.000	306.400	7277.21	1150.83	672.04	-934.24	0.14	
7523.00	2.200	299.000	7413.12	1155.80	674.71	-938.44	0.25	
7659.00	1.800	303.900	7549.03	1160.52	677.17	-942.49	0.32	
7795.00	1.100	311.300	7684.99	1163.96	679.22	-945.25	0.53	
7931.00	0.700	313.400	7820.97	1166.08	680.65	-946.83	0.30	
8067.00	0.400	279.000	7956.97	1167.33	681.30	-947.90	0.32	
8205.00	0.400	260.000	8094.96	1168.09	681.29	-948.85	0.10	
8341.00	0.400	300.800	8230.96	1168.89	681.45	-949.73	0.21	
8410.00	0.400	323.900	8299.96	1169.36	681.77	-950.08	0.23	LAST BHI MWD SURVEY



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PEAKS 12-2 awp

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

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Area	COLORADO	Well	PEAKS 12-2
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PEAKS 12-2 awb
Facility	SEC.02-T1N-R68W		

WELLPATH DATA (91 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
8460.00	0.400	323.900	8349.96	1169.69	682.05	-950.28	0.00	PROJECTION TO BIT

HOLE & CASING SECTIONS Ref Wellbore: PEAKS 12-2 awb Ref Wellpath: PEAKS 12-2 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	933.00	918.00	15.00	930.37	0.00	0.00	30.92	-46.01
8.625in Casing Production	15.00	923.00	908.00	15.00	920.42	0.00	0.00	30.31	-45.18
7.875in Open Hole	923.00	8460.00	7537.00	920.42	8349.96	30.31	-45.18	682.05	-950.28

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
PEAKS 12-2 GEO TARGET 50' RADIUS (1980'FSL & 660'FWL, REV-1)		6000.00	675.78	-929.64	3146184.09	1271866.13	40°04'42.532"N	104°58'39.346"W	circle
PEAKS 12-2 LEGAL BOX (222'N,178'S,199'W,201'E OF GEO TARGET)		6000.00	697.78	-928.64	3146184.95	1271888.13	40°04'42.749"N	104°58'39.333"W	square

WELLPATH COMPOSITION Ref Wellbore: PEAKS 12-2 awb Ref Wellpath: PEAKS 12-2 awp

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
15.00	878.00	NaviTrak (Standard)	BHI MWD SURVEYS 12.25 HOLE <149-878>	PEAKS 12-2 awb
878.00	8410.00	NaviTrak (Standard)	BHI MWD SURVEYS 7.875 HOLE <949-8410>	PEAKS 12-2 awb
8410.00	8460.00	Blind Drilling (std)	Projection to bit	PEAKS 12-2 awb



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Field	WELD COUNTY (KERR MCGEE)	Wellbore	PEAKS 12-2 awb
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WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
8410.00	0.400	323.900	8299.96	LAST BHI MWD SURVEY
8460.00	0.400	323.900	8349.96	PROJECTION TO BIT