

**Anadarko**  
Petroleum Corporation



**BAKER  
HUGHES**

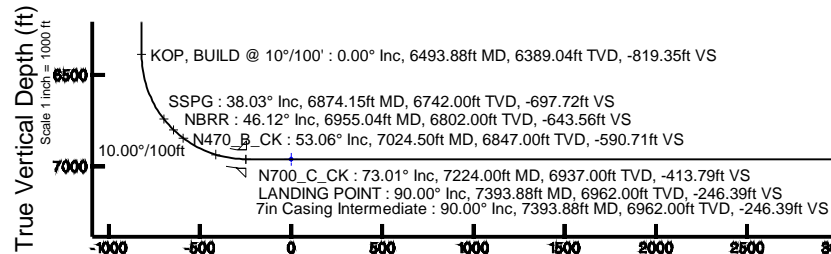
Coordinates are in feet referenced to Slot	Created by: precain on 1/14/2015
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XTREME 23 (16'KB) (RKB) to Mean Sea Level	4862ft
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7393.88	11797.57	NaviTrak	NaviTrak (MAGCORR,IFR)		GREENLEAF 27N-2HZ PWB
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TOTAL DEPTH	11797.57	90.000	359.099	6962.00	4157.04	-49.57	0.00	4157
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GREENLEAF 27N-2HZ LANDBOX	6962.00	0.00	0.00	3243837.71	1302940.49	40°09'42.026"N	104°37'39.16
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Vertical Section (ft)  
Azimuth 359.10° with reference 0.00 N, 0.00 E

# Planned Wellpath Report

GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 27N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 27N-2HZ PWB
Facility	SEC.02-T2N-R65W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Precain
Scale	0.999958	Report Generated	1/6/2015 at 12:29:05 PM
Convergence at slot	n/a	Database/Source file	WellArchitectDB/GREENLEAF_27N-2HZ_PWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-231.71	-1069.40	3243837.71	1302940.49	40°09'42.026"N	104°37'39.166"W
Facility Reference Pt			3244904.72	1303182.74	40°09'44.316"N	104°37'25.392"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 23 (16'KB)] (RKB) to Facility Vertical Datum	4862.00ft
Horizontal Reference Pt	Slot	XTREME 23 (16'KB)] (RKB) to Mean Sea Level	4862.00ft
Vertical Reference Pt	XTREME 23 (16'KB)] (RKB)	XTREME 23 (16'KB)] (RKB) to Mud Line at Slot (SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02))	4862.00ft
MD Reference Pt	XTREME 23 (16'KB)] (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.10°

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GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

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Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 27N-2HZ PWB
Facility	SEC.02-T2N-R65W		

## WELLPATH DATA (136 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	143.900	0.00	0.00	0.00	0.00	40°09'42.026"N	104°37'39.166"W	0.00	
16.00	0.000	143.900	16.00	0.00	0.00	0.00	40°09'42.026"N	104°37'39.166"W	0.00	
129.00	0.800	143.900	129.00	-0.64	-0.64	0.46	40°09'42.020"N	104°37'39.160"W	0.71	
209.00	0.500	124.400	208.99	-1.30	-1.29	1.08	40°09'42.013"N	104°37'39.152"W	0.46	
288.00	0.400	139.300	287.99	-1.71	-1.69	1.55	40°09'42.009"N	104°37'39.146"W	0.19	
368.00	0.300	143.000	367.99	-2.10	-2.07	1.85	40°09'42.006"N	104°37'39.142"W	0.13	
448.00	0.100	146.400	447.99	-2.33	-2.29	2.02	40°09'42.003"N	104°37'39.140"W	0.25	
528.00	0.200	168.500	527.99	-2.52	-2.49	2.09	40°09'42.001"N	104°37'39.139"W	0.14	
608.00	0.200	352.800	607.99	-2.52	-2.49	2.10	40°09'42.001"N	104°37'39.139"W	0.50	
688.00	0.300	311.400	687.99	-2.24	-2.21	1.92	40°09'42.004"N	104°37'39.141"W	0.25	
768.00	0.300	295.300	767.98	-2.01	-1.98	1.57	40°09'42.006"N	104°37'39.146"W	0.11	
773.02†	0.312	296.802	773.00	-1.99	-1.97	1.55	40°09'42.007"N	104°37'39.146"W	0.28	Base Fox Hills
848.00	0.500	310.400	847.98	-1.68	-1.67	1.12	40°09'42.010"N	104°37'39.152"W	0.28	
928.00	0.600	310.000	927.98	-1.18	-1.17	0.53	40°09'42.014"N	104°37'39.159"W	0.13	
1008.00	0.600	308.900	1007.97	-0.64	-0.64	-0.11	40°09'42.020"N	104°37'39.167"W	0.01	
1088.00	0.700	304.900	1087.97	-0.08	-0.10	-0.84	40°09'42.025"N	104°37'39.177"W	0.14	
1168.00	0.400	292.900	1167.97	0.32	0.29	-1.50	40°09'42.029"N	104°37'39.185"W	0.40	
1279.00	0.200	66.000	1278.96	0.55	0.52	-1.68	40°09'42.031"N	104°37'39.188"W	0.50	TIE-INTO CATHEDRAL ENERGY MWD SURVEYS
1379.00†	0.200	66.000	1378.96	0.68	0.66	-1.36	40°09'42.033"N	104°37'39.184"W	0.00	
1425.04	0.200	66.000	1425.00	0.75	0.73	-1.21	40°09'42.033"N	104°37'39.182"W	0.00	BEGIN NUDGE
1479.00†	1.019	168.210	1478.96	0.31	0.30	-1.03	40°09'42.029"N	104°37'39.179"W	2.00	
1579.00†	3.008	175.129	1578.89	-3.18	-3.19	-0.62	40°09'41.994"N	104°37'39.174"W	2.00	
1679.00†	5.006	176.536	1678.64	-10.15	-10.16	-0.14	40°09'41.926"N	104°37'39.168"W	2.00	
1779.00†	7.005	177.141	1778.09	-20.61	-20.60	0.43	40°09'41.822"N	104°37'39.160"W	2.00	
1879.00†	9.004	177.479	1877.11	-34.52	-34.51	1.08	40°09'41.685"N	104°37'39.152"W	2.00	
1979.00†	11.004	177.694	1975.59	-51.89	-51.87	1.81	40°09'41.513"N	104°37'39.143"W	2.00	
2079.00†	13.004	177.844	2073.39	-72.68	-72.65	2.61	40°09'41.308"N	104°37'39.132"W	2.00	
2179.00†	15.003	177.955	2170.42	-96.87	-96.83	3.50	40°09'41.069"N	104°37'39.121"W	2.00	
2228.83	16.000	178.000	2218.44	-110.19	-110.14	3.97	40°09'40.938"N	104°37'39.115"W	2.00	END NUDGE
2279.00†	16.000	178.000	2266.66	-124.01	-123.96	4.45	40°09'40.801"N	104°37'39.109"W	0.00	
2379.00†	16.000	178.000	2362.79	-151.57	-151.51	5.41	40°09'40.529"N	104°37'39.096"W	0.00	
2479.00†	16.000	178.000	2458.91	-179.13	-179.05	6.38	40°09'40.257"N	104°37'39.084"W	0.00	
2579.00†	16.000	178.000	2555.04	-206.69	-206.60	7.34	40°09'39.984"N	104°37'39.071"W	0.00	
2679.00†	16.000	178.000	2651.17	-234.25	-234.15	8.30	40°09'39.712"N	104°37'39.059"W	0.00	
2779.00†	16.000	178.000	2747.29	-261.81	-261.69	9.26	40°09'39.440"N	104°37'39.047"W	0.00	
2879.00†	16.000	178.000	2843.42	-289.37	-289.24	10.22	40°09'39.168"N	104°37'39.034"W	0.00	
2979.00†	16.000	178.000	2939.54	-316.92	-316.79	11.18	40°09'38.895"N	104°37'39.022"W	0.00	
3079.00†	16.000	178.000	3035.67	-344.48	-344.33	12.15	40°09'38.623"N	104°37'39.010"W	0.00	
3179.00†	16.000	178.000	3131.80	-372.04	-371.88	13.11	40°09'38.351"N	104°37'38.997"W	0.00	
3279.00†	16.000	178.000	3227.92	-399.60	-399.43	14.07	40°09'38.079"N	104°37'38.985"W	0.00	
3379.00†	16.000	178.000	3324.05	-427.16	-426.98	15.03	40°09'37.807"N	104°37'38.972"W	0.00	
3479.00†	16.000	178.000	3420.18	-454.72	-454.52	15.99	40°09'37.534"N	104°37'38.960"W	0.00	
3579.00†	16.000	178.000	3516.30	-482.28	-482.07	16.96	40°09'37.262"N	104°37'38.948"W	0.00	
3679.00†	16.000	178.000	3612.43	-509.83	-509.62	17.92	40°09'36.990"N	104°37'38.935"W	0.00	
3779.00†	16.000	178.000	3708.55	-537.39	-537.16	18.88	40°09'36.718"N	104°37'38.923"W	0.00	

# Planned Wellpath Report

GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 27N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 27N-2HZ PWB
Facility	SEC.02-T2N-R65W		

## WELLPATH DATA (136 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3879.00†	16.000	178.000	3804.68	-564.95	-564.71	19.84	40°09'36.446"N	104°37'38.910"W	0.00	
3979.00†	16.000	178.000	3900.81	-592.51	-592.26	20.80	40°09'36.173"N	104°37'38.898"W	0.00	
3991.69†	16.000	178.000	3913.00	-596.01	-595.75	20.93	40°09'36.139"N	104°37'38.896"W	0.00	Parkman
4079.00†	16.000	178.000	3996.93	-620.07	-619.80	21.77	40°09'35.901"N	104°37'38.886"W	0.00	
4179.00†	16.000	178.000	4093.06	-647.63	-647.35	22.73	40°09'35.629"N	104°37'38.873"W	0.00	
4277.77†	16.000	178.000	4188.00	-674.85	-674.56	23.68	40°09'35.360"N	104°37'38.861"W	0.00	Sussex
4279.00†	16.000	178.000	4189.18	-675.19	-674.90	23.69	40°09'35.357"N	104°37'38.861"W	0.00	
4379.00†	16.000	178.000	4285.31	-702.75	-702.44	24.65	40°09'35.084"N	104°37'38.848"W	0.00	
4399.48	16.000	178.000	4305.00	-708.39	-708.09	24.85	40°09'35.029"N	104°37'38.846"W	0.00	BEGIN DROP
4479.00†	14.410	178.000	4381.73	-729.24	-728.93	25.58	40°09'34.823"N	104°37'38.837"W	2.00	
4579.00†	12.410	178.000	4479.00	-752.43	-752.10	26.39	40°09'34.594"N	104°37'38.826"W	2.00	
4679.00†	10.410	178.000	4577.02	-772.20	-771.87	27.08	40°09'34.398"N	104°37'38.817"W	2.00	
4779.00†	8.410	178.000	4675.67	-788.55	-788.21	27.65	40°09'34.237"N	104°37'38.810"W	2.00	
4879.00†	6.410	178.000	4774.83	-801.44	-801.10	28.10	40°09'34.109"N	104°37'38.804"W	2.00	
4979.00†	4.410	178.000	4874.38	-810.87	-810.52	28.43	40°09'34.016"N	104°37'38.800"W	2.00	
5079.00†	2.410	178.000	4974.20	-816.81	-816.46	28.63	40°09'33.958"N	104°37'38.797"W	2.00	
5179.00†	0.410	178.000	5074.16	-819.27	-818.92	28.72	40°09'33.933"N	104°37'38.796"W	2.00	
5199.48	0.000	359.098	5094.64	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	2.00	END DROP
5279.00†	0.000	359.098	5174.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5379.00†	0.000	359.098	5274.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5479.00†	0.000	359.098	5374.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5579.00†	0.000	359.098	5474.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5679.00†	0.000	359.098	5574.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5779.00†	0.000	359.098	5674.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5879.00†	0.000	359.098	5774.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
5979.00†	0.000	359.098	5874.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6079.00†	0.000	359.098	5974.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6179.00†	0.000	359.098	6074.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6279.00†	0.000	359.098	6174.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6379.00†	0.000	359.098	6274.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6479.00†	0.000	359.098	6374.16	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	
6493.88	0.000	359.098	6389.04	-819.35	-819.00	28.72	40°09'33.933"N	104°37'38.796"W	0.00	KOP, BUILD @ 10°/100'
6579.00†	8.512	359.098	6473.85	-813.04	-812.69	28.62	40°09'33.995"N	104°37'38.797"W	10.00	
6679.00†	18.512	359.098	6570.96	-789.70	-789.35	28.26	40°09'34.226"N	104°37'38.802"W	10.00	
6779.00†	28.512	359.098	6662.54	-749.86	-749.52	27.63	40°09'34.619"N	104°37'38.810"W	10.00	
6874.15†	38.027	359.098	6742.00	-697.72	-697.39	26.81	40°09'35.134"N	104°37'38.821"W	10.00	SSPG
6879.00†	38.512	359.098	6745.81	-694.72	-694.38	26.76	40°09'35.164"N	104°37'38.821"W	10.00	
6955.04†	46.116	359.098	6802.00	-643.56	-643.23	25.96	40°09'35.670"N	104°37'38.832"W	10.00	NBRR
6979.00†	48.512	359.098	6818.24	-625.95	-625.63	25.68	40°09'35.844"N	104°37'38.835"W	10.00	
7024.50†	53.062	359.098	6847.00	-590.71	-590.39	25.12	40°09'36.192"N	104°37'38.842"W	10.00	N470_B_CK
7079.00†	58.512	359.098	6877.63	-545.66	-545.34	24.41	40°09'36.637"N	104°37'38.852"W	10.00	
7179.00†	68.512	359.098	6922.18	-456.27	-455.96	23.01	40°09'37.520"N	104°37'38.870"W	10.00	
7224.00†	73.012	359.098	6937.00	-413.79	-413.49	22.34	40°09'37.940"N	104°37'38.878"W	10.00	N700_C_CK
7279.00†	78.512	359.098	6950.52	-360.50	-360.21	21.50	40°09'38.466"N	104°37'38.889"W	10.00	
7379.00†	88.512	359.098	6961.81	-261.27	-260.99	19.94	40°09'39.447"N	104°37'38.909"W	10.00	

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GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

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7393.88	90.000	359.098	6962.00	-246.39	-246.11	19.70	40°09'39.594"N	104°37'38.912"W	10.00	LANDING POINT
7479.00†	90.000	359.098	6962.00	-161.27	-161.00	18.36	40°09'40.435"N	104°37'38.929"W	0.00	
7579.00†	90.000	359.098	6962.00	-61.27	-61.02	16.79	40°09'41.423"N	104°37'38.950"W	0.00	
7679.00†	90.000	359.098	6962.00	38.73	38.97	15.21	40°09'42.411"N	104°37'38.970"W	0.00	
7779.00†	90.000	359.098	6962.00	138.73	138.96	13.64	40°09'43.399"N	104°37'38.990"W	0.00	
7879.00†	90.000	359.098	6962.00	238.73	238.95	12.07	40°09'44.387"N	104°37'39.011"W	0.00	
7979.00†	90.000	359.098	6962.00	338.73	338.94	10.49	40°09'45.375"N	104°37'39.031"W	0.00	
8079.00†	90.000	359.098	6962.00	438.73	438.92	8.92	40°09'46.363"N	104°37'39.051"W	0.00	
8179.00†	90.000	359.098	6962.00	538.73	538.91	7.34	40°09'47.352"N	104°37'39.071"W	0.00	
8279.00†	90.000	359.098	6962.00	638.73	638.90	5.77	40°09'48.340"N	104°37'39.092"W	0.00	
8379.00†	90.000	359.098	6962.00	738.73	738.89	4.20	40°09'49.328"N	104°37'39.112"W	0.00	
8479.00†	90.000	359.098	6962.00	838.73	838.87	2.62	40°09'50.316"N	104°37'39.132"W	0.00	
8579.00†	90.000	359.098	6962.00	938.73	938.86	1.05	40°09'51.304"N	104°37'39.152"W	0.00	
8679.00†	90.000	359.098	6962.00	1038.73	1038.85	-0.52	40°09'52.292"N	104°37'39.173"W	0.00	
8779.00†	90.000	359.098	6962.00	1138.73	1138.84	-2.10	40°09'53.280"N	104°37'39.193"W	0.00	
8879.00†	90.000	359.098	6962.00	1238.73	1238.82	-3.67	40°09'54.268"N	104°37'39.213"W	0.00	
8979.00†	90.000	359.098	6962.00	1338.73	1338.81	-5.24	40°09'55.256"N	104°37'39.234"W	0.00	
9079.00†	90.000	359.099	6962.00	1438.73	1438.80	-6.82	40°09'56.244"N	104°37'39.254"W	0.00	
9179.00†	90.000	359.099	6962.00	1538.73	1538.79	-8.39	40°09'57.232"N	104°37'39.274"W	0.00	
9279.00†	90.000	359.099	6962.00	1638.73	1638.77	-9.96	40°09'58.220"N	104°37'39.294"W	0.00	
9379.00†	90.000	359.099	6962.00	1738.73	1738.76	-11.54	40°09'59.209"N	104°37'39.315"W	0.00	
9479.00†	90.000	359.099	6962.00	1838.73	1838.75	-13.11	40°10'00.197"N	104°37'39.335"W	0.00	
9579.00†	90.000	359.099	6962.00	1938.73	1938.74	-14.68	40°10'01.185"N	104°37'39.355"W	0.00	
9679.00†	90.000	359.099	6962.00	2038.73	2038.72	-16.26	40°10'02.173"N	104°37'39.375"W	0.00	
9779.00†	90.000	359.099	6962.00	2138.73	2138.71	-17.83	40°10'03.161"N	104°37'39.396"W	0.00	
9879.00†	90.000	359.099	6962.00	2238.73	2238.70	-19.40	40°10'04.149"N	104°37'39.416"W	0.00	
9979.00†	90.000	359.099	6962.00	2338.73	2338.69	-20.98	40°10'05.137"N	104°37'39.436"W	0.00	
10079.00†	90.000	359.099	6962.00	2438.73	2438.68	-22.55	40°10'06.125"N	104°37'39.456"W	0.00	
10179.00†	90.000	359.099	6962.00	2538.73	2538.66	-24.12	40°10'07.113"N	104°37'39.477"W	0.00	
10279.00†	90.000	359.099	6962.00	2638.73	2638.65	-25.69	40°10'08.101"N	104°37'39.497"W	0.00	
10379.00†	90.000	359.099	6962.00	2738.73	2738.64	-27.27	40°10'09.089"N	104°37'39.517"W	0.00	
10479.00†	90.000	359.099	6962.00	2838.73	2838.63	-28.84	40°10'10.077"N	104°37'39.537"W	0.00	
10579.00†	90.000	359.099	6962.00	2938.73	2938.61	-30.41	40°10'11.065"N	104°37'39.558"W	0.00	
10679.00†	90.000	359.099	6962.00	3038.73	3038.60	-31.98	40°10'12.054"N	104°37'39.578"W	0.00	
10779.00†	90.000	359.099	6962.00	3138.73	3138.59	-33.56	40°10'13.042"N	104°37'39.598"W	0.00	
10879.00†	90.000	359.099	6962.00	3238.73	3238.58	-35.13	40°10'14.030"N	104°37'39.619"W	0.00	
10979.00†	90.000	359.099	6962.00	3338.73	3338.56	-36.70	40°10'15.018"N	104°37'39.639"W	0.00	
11079.00†	90.000	359.099	6962.00	3438.73	3438.55	-38.27	40°10'16.006"N	104°37'39.659"W	0.00	
11179.00†	90.000	359.099	6962.00	3538.73	3538.54	-39.85	40°10'16.994"N	104°37'39.679"W	0.00	
11279.00†	90.000	359.099	6962.00	3638.73	3638.53	-41.42	40°10'17.982"N	104°37'39.700"W	0.00	
11379.00†	90.000	359.099	6962.00	3738.73	3738.51	-42.99	40°10'18.970"N	104°37'39.720"W	0.00	
11479.00†	90.000	359.099	6962.00	3838.73	3838.50	-44.56	40°10'19.958"N	104°37'39.740"W	0.00	
11579.00†	90.000	359.099	6962.00	3938.73	3938.49	-46.13	40°10'20.946"N	104°37'39.760"W	0.00	
11679.00†	90.000	359.099	6962.00	4038.73	4038.48	-47.71	40°10'21.934"N	104°37'39.781"W	0.00	
11779.00†	90.000	359.099	6962.00	4138.73	4138.47	-49.28	40°10'22.922"N	104°37'39.801"W	0.00	



# Planned Wellpath Report

GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 27N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 27N-2HZ PWB
Facility	SEC.02-T2N-R65W		

## WELLPATH DATA (136 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11797.57	90.000	359.099	6962.00 <sup>1</sup>	4157.30	4157.04	-49.57	40°10'23.106"N	104°37'39.805"W	0.00	TOTAL DEPTH

## HOLE & CASING SECTIONS - Ref Wellbore: GREENLEAF 27N-2HZ PWB Ref Wellpath: GREENLEAF 27N-2HZ (REV-A.0) PWP

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]
13.5in Open Hole	16.00	1279.00	1263.00	16.00	1278.96	0.00	0.00	0.52	-1.68
13.5in Open Hole	1279.00	1324.00	45.00	1278.96	1323.96	0.52	-1.68	0.59	-1.54
9.625in Casing Surface	16.00	1314.00	1298.00	16.00	1313.96	0.00	0.00	0.57	-1.57
8.75in Open Hole	1324.00	7393.88	6069.88	1323.96	6962.00	0.59	-1.54	-246.11	19.70
7in Casing Intermediate	16.00	7393.88	7377.88	16.00	6962.00	0.00	0.00	-246.11	19.70
6.125in Open Hole	1324.00	11797.57	10473.57	1323.96	6962.00	0.59	-1.54	4157.03	-49.57
4.5in Casing Production	16.00	11797.57	11781.57	16.00	6962.00	0.00	0.00	4157.03	-49.57

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.02-T2N-R65W LINES		0.00	0.40	-59.78	3243777.93	1302940.31	40°09'42.030"N	104°37'39.936"W	polygon
1) GREENLEAF 27N-2HZ BHL (460'FNL & 1670'FEL, SEC.02) REV-2	11797.57	6962.00	4157.04	-49.57	3243747.24	1307096.65	40°10'23.106"N	104°37'39.805"W	point
GREENLEAF 27N-2HZ BHL ON PLAT (460'FNL & 1550'FEL, SEC.02) REV-1		6962.00	4157.04	71.57	3243868.38	1307097.85	40°10'23.106"N	104°37'38.244"W	point
GREENLEAF 27N-2HZ LANDBOX		6962.00	0.00	0.00	3243837.71	1302940.49	40°09'42.026"N	104°37'39.166"W	polygon

## SURVEY PROGRAM - Ref Wellbore: GREENLEAF 27N-2HZ PWB Ref Wellpath: GREENLEAF 27N-2HZ (REV-A.0) PWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1279.00	ISCWSA MWD, Rev. 2 (Standard)		GREENLEAF 27N-2HZ AWB
1279.00	7393.88	NaviTrak (MAGCORR,IFR)		GREENLEAF 27N-2HZ PWB
7393.88	11797.57	NaviTrak (MAGCORR,IFR)		GREENLEAF 27N-2HZ PWB

# Planned Wellpath Report

GREENLEAF 27N-2HZ (REV-A.0) PWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 27N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 27N-2HZ PWB
Facility	SEC.02-T2N-R65W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
773.02	0.312	296.802	773.00	Base Fox Hills
3991.69	16.000	178.000	3913.00	Parkman
4277.77	16.000	178.000	4188.00	Sussex
6874.15	38.027	359.098	6742.00	SSPG
6955.04	46.116	359.098	6802.00	NBRR
7024.50	53.062	359.098	6847.00	N470_B_CK
7224.00	73.012	359.098	6937.00	N700_C_CK

## DESIGN COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1279.00	0.200	66.000	1278.96	TIE-INTO CATHEDRAL ENERGY MWD SURVEYS
1425.04	0.200	66.000	1425.00	BEGIN NUDGE
2228.83	16.000	178.000	2218.44	END NUDGE
4399.48	16.000	178.000	4305.00	BEGIN DROP
5199.48	0.000	359.098	5094.64	END DROP
6493.88	0.000	359.098	6389.04	KOP, BUILD @ 10°/100'
7393.88	90.000	359.098	6962.00	LANDING POINT
11797.57	90.000	359.099	6962.00	TOTAL DEPTH