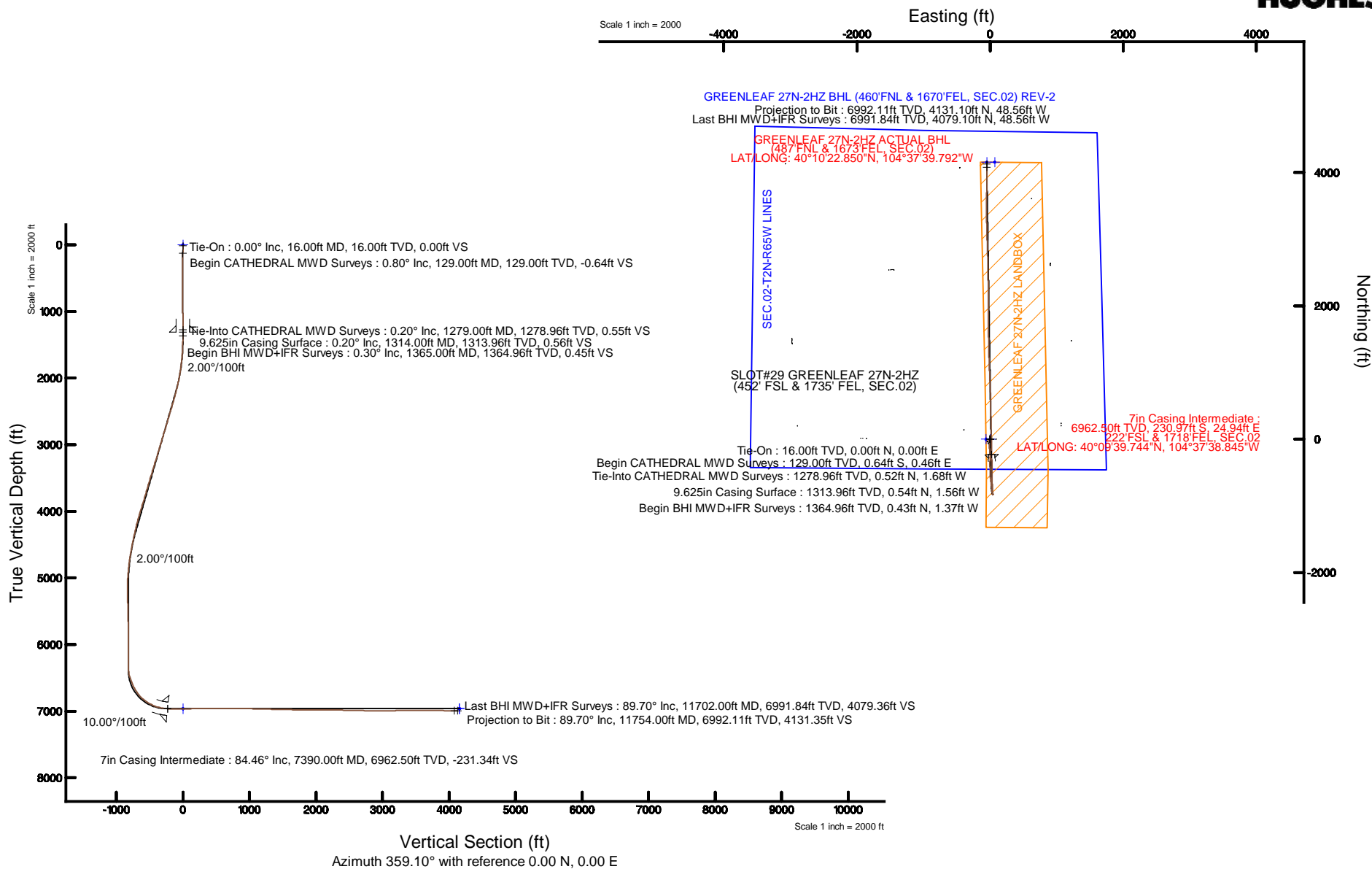


KERR-MCGEE OIL & GAS ONSHORE LP

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

Plot reference wellpath is GREENLEAF 27N-2HZ (REV-A.0) PWP

True vertical depths are referenced to XTREME 23 (16KB) (RKB)	Grid System: NAD83 / Lambert Colorado SP, Northern Zone (501), US feet
Measured depths are referenced to XTREME 23 (16KB) (RKB)	North Reference: True north
XTREME 23 (16KB) (RKB) to Mean Sea Level: 4862 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot: SLOT#29 GREENLEAF 27N-2HZ (452' FSL & 1735' FEL, SEC.02)): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: precalin on 3/10/2015



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 AWB <11754>
Facility	SEC.02-T2N-R65W		

REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.1.1
North Reference	True	User	Precain
Scale	0.999958	Report Generated	3/10/2015 at 1:15:28 PM
Convergence at slot	0.56° East	Database/Source file	WellArchitectDB/GREENLEAF_27N-2HZ_AWB__11754_.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°

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 AWB <11754>
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (134 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	Tie-On
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	Begin CATHEDRAL MWD Surveys
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	
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 MWD Surveys
1365.00	0.300	132.200	1364.96	0.45	0.43	-1.37	40°09'42.030"N	104°37'39.184"W	0.33	Begin BHI MWD+IFR Surveys
1459.00	1.500	210.100	1458.95	-0.77	-0.80	-1.81	40°09'42.018"N	104°37'39.189"W	1.56	
1555.00	2.800	211.300	1554.88	-3.83	-3.89	-3.66	40°09'41.988"N	104°37'39.213"W	1.35	
1648.00	4.500	194.300	1647.69	-9.27	-9.37	-5.74	40°09'41.933"N	104°37'39.240"W	2.15	
1739.00	6.400	195.100	1738.28	-17.60	-17.72	-7.94	40°09'41.851"N	104°37'39.268"W	2.09	
1831.00	8.000	189.700	1829.55	-28.82	-28.98	-10.36	40°09'41.740"N	104°37'39.299"W	1.89	
1924.00	9.300	184.100	1921.49	-42.67	-42.86	-11.99	40°09'41.602"N	104°37'39.320"W	1.66	
2018.00	11.100	177.300	2014.01	-59.28	-59.48	-12.10	40°09'41.438"N	104°37'39.322"W	2.30	
2110.00	13.100	177.900	2103.96	-78.56	-78.74	-11.30	40°09'41.248"N	104°37'39.312"W	2.18	
2203.00	14.100	176.500	2194.35	-100.41	-100.58	-10.22	40°09'41.032"N	104°37'39.298"W	1.13	
2296.00	14.800	176.200	2284.41	-123.59	-123.74	-8.75	40°09'40.803"N	104°37'39.279"W	0.76	
2388.00	16.900	176.900	2372.90	-148.69	-148.82	-7.24	40°09'40.555"N	104°37'39.259"W	2.29	
2482.00	16.600	175.200	2462.92	-175.74	-175.85	-5.38	40°09'40.288"N	104°37'39.235"W	0.61	
2573.00	17.800	175.000	2549.84	-202.58	-202.66	-3.08	40°09'40.023"N	104°37'39.206"W	1.32	
2666.00	15.000	173.100	2639.05	-228.74	-228.77	-0.40	40°09'39.765"N	104°37'39.171"W	3.07	
2758.00	17.100	178.100	2727.47	-254.10	-254.11	1.48	40°09'39.515"N	104°37'39.147"W	2.73	
2851.00	17.500	176.600	2816.26	-281.74	-281.74	2.77	40°09'39.242"N	104°37'39.130"W	0.64	
2936.00	16.100	186.600	2897.65	-306.20	-306.21	2.17	40°09'39.000"N	104°37'39.138"W	3.77	
3023.00	17.300	185.500	2980.98	-331.02	-331.07	-0.46	40°09'38.754"N	104°37'39.172"W	1.43	
3110.00	16.400	183.300	3064.24	-356.12	-356.21	-2.40	40°09'38.506"N	104°37'39.197"W	1.27	
3195.00	16.700	177.400	3145.72	-380.30	-380.39	-2.54	40°09'38.267"N	104°37'39.199"W	2.01	
3282.00	17.000	175.300	3228.99	-405.49	-405.55	-0.93	40°09'38.018"N	104°37'39.178"W	0.78	
3367.00	18.000	176.500	3310.06	-431.01	-431.04	0.89	40°09'37.766"N	104°37'39.155"W	1.25	
3452.00	16.700	176.400	3391.19	-456.33	-456.34	2.46	40°09'37.516"N	104°37'39.134"W	1.53	
3537.00	16.500	175.900	3472.64	-480.58	-480.57	4.09	40°09'37.277"N	104°37'39.113"W	0.29	
3622.00	16.600	179.900	3554.13	-504.77	-504.75	4.97	40°09'37.038"N	104°37'39.102"W	1.35	
3707.00	16.200	178.700	3635.67	-528.77	-528.75	5.26	40°09'36.801"N	104°37'39.098"W	0.62	
3796.00	16.400	180.500	3721.09	-553.74	-553.73	5.43	40°09'36.554"N	104°37'39.096"W	0.61	

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 AWB <11754>
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS ["/100ft]	Comments
3881.00	16.900	175.200	3802.53	-578.07	-578.04	6.36	40°09'36.314"N	104°37'39.084"W	1.88	
3968.00	17.300	172.300	3885.69	-603.53	-603.46	9.15	40°09'36.063"N	104°37'39.048"W	1.08	
4054.00	16.900	174.000	3967.88	-628.68	-628.56	12.17	40°09'35.815"N	104°37'39.009"W	0.74	
4139.00	16.700	172.700	4049.26	-653.12	-652.96	15.02	40°09'35.573"N	104°37'38.973"W	0.50	
4226.00	15.900	172.500	4132.76	-677.38	-677.18	18.16	40°09'35.334"N	104°37'38.932"W	0.92	
4315.00	13.400	168.100	4218.86	-699.62	-699.36	21.88	40°09'35.115"N	104°37'38.884"W	3.07	
4400.00	12.800	171.600	4301.65	-718.62	-718.31	25.29	40°09'34.928"N	104°37'38.840"W	1.17	
4489.00	12.200	168.300	4388.54	-737.63	-737.28	28.63	40°09'34.740"N	104°37'38.797"W	1.05	
4574.00	11.400	176.100	4471.75	-754.85	-754.45	31.03	40°09'34.570"N	104°37'38.766"W	2.10	
4661.00	10.500	175.200	4557.17	-771.34	-770.93	32.27	40°09'34.408"N	104°37'38.750"W	1.05	
4750.00	10.000	178.500	4644.75	-787.16	-786.74	33.15	40°09'34.251"N	104°37'38.739"W	0.87	
4835.00	8.400	172.800	4728.65	-800.71	-800.28	34.13	40°09'34.118"N	104°37'38.726"W	2.16	
4921.00	6.900	159.700	4813.89	-811.83	-811.35	36.71	40°09'34.008"N	104°37'38.693"W	2.66	
5008.00	4.900	155.900	4900.42	-820.18	-819.65	40.04	40°09'33.926"N	104°37'38.650"W	2.34	
5095.00	4.800	174.400	4987.12	-827.22	-826.66	41.91	40°09'33.857"N	104°37'38.626"W	1.79	
5182.00	1.900	196.800	5073.96	-832.22	-831.67	41.85	40°09'33.807"N	104°37'38.627"W	3.60	
5270.00	1.000	24.300	5161.95	-832.92	-832.36	41.74	40°09'33.801"N	104°37'38.628"W	3.29	
5355.00	1.000	20.300	5246.94	-831.55	-830.99	42.30	40°09'33.814"N	104°37'38.621"W	0.08	
5442.00	1.700	334.300	5333.92	-829.68	-829.12	42.01	40°09'33.833"N	104°37'38.625"W	1.42	
5527.00	1.700	5.000	5418.88	-827.28	-826.73	41.57	40°09'33.856"N	104°37'38.631"W	1.06	
5612.00	1.400	337.800	5503.85	-825.06	-824.51	41.29	40°09'33.878"N	104°37'38.634"W	0.92	
5699.00	2.200	28.900	5590.81	-822.62	-822.06	41.69	40°09'33.902"N	104°37'38.629"W	1.97	
5785.00	1.500	265.900	5676.79	-821.25	-820.70	41.37	40°09'33.916"N	104°37'38.633"W	3.80	
5957.00	0.900	302.000	5848.75	-820.64	-820.14	37.98	40°09'33.921"N	104°37'38.677"W	0.54	
6127.00	0.400	14.300	6018.74	-819.34	-818.86	36.99	40°09'33.934"N	104°37'38.690"W	0.51	
6295.00	0.600	95.500	6186.74	-818.87	-818.38	38.01	40°09'33.939"N	104°37'38.676"W	0.40	
6381.00	0.700	351.200	6272.74	-818.40	-817.90	38.38	40°09'33.943"N	104°37'38.672"W	1.20	
6466.00	1.300	8.600	6357.72	-816.94	-816.43	38.45	40°09'33.958"N	104°37'38.671"W	0.78	
6509.00	5.600	358.200	6400.63	-814.36	-813.85	38.45	40°09'33.983"N	104°37'38.671"W	10.06	
6551.00	10.900	358.400	6442.18	-808.33	-807.83	38.28	40°09'34.043"N	104°37'38.673"W	12.62	
6636.00	19.500	1.400	6524.14	-786.08	-785.57	38.40	40°09'34.263"N	104°37'38.671"W	10.16	
6722.00	25.300	358.900	6603.61	-753.33	-752.82	38.40	40°09'34.587"N	104°37'38.671"W	6.83	
6809.00	30.300	356.900	6680.55	-712.78	-712.29	36.85	40°09'34.987"N	104°37'38.691"W	5.85	
6894.00	38.900	357.100	6750.45	-664.59	-664.14	34.34	40°09'35.463"N	104°37'38.724"W	10.12	
6979.00	48.600	359.200	6811.78	-605.90	-605.46	32.54	40°09'36.043"N	104°37'38.747"W	11.54	
7064.00	57.500	359.800	6862.83	-538.04	-537.61	31.97	40°09'36.713"N	104°37'38.754"W	10.49	
7150.00	64.500	359.500	6904.49	-462.87	-462.44	31.50	40°09'37.456"N	104°37'38.760"W	8.15	
7237.00	73.800	358.300	6935.43	-381.66	-381.24	29.92	40°09'38.259"N	104°37'38.781"W	10.77	
7324.00	81.200	357.900	6954.24	-296.80	-296.41	27.10	40°09'39.097"N	104°37'38.817"W	8.52	
7359.00	82.900	358.000	6959.08	-262.14	-261.77	25.86	40°09'39.439"N	104°37'38.833"W	4.87	
7390.00†	84.462	358.603	6962.50	-231.34	-230.97	24.94	40°09'39.744"N	104°37'38.845"W	5.40	7" Casing Point
7478.00	88.900	0.300	6967.59	-143.51	-143.15	24.11	40°09'40.611"N	104°37'38.856"W	5.40	
7563.00	89.800	358.700	6968.55	-58.52	-58.16	23.36	40°09'41.451"N	104°37'38.865"W	2.16	
7648.00	92.300	358.200	6967.00	26.45	26.79	21.07	40°09'42.291"N	104°37'38.895"W	3.00	
7734.00	92.800	358.400	6963.17	112.36	112.66	18.52	40°09'43.139"N	104°37'38.927"W	0.63	

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 AWB <11754>
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (134 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7819.00	91.600	359.200	6959.91	197.29	197.58	16.74	40°09'43.978"N	104°37'38.950"W	1.70	
7904.00	90.200	358.400	6958.57	282.28	282.55	14.96	40°09'44.818"N	104°37'38.973"W	1.90	
7989.00	90.900	359.100	6957.76	367.27	367.52	13.10	40°09'45.658"N	104°37'38.997"W	1.16	
8077.00	90.000	0.000	6957.06	455.26	455.52	12.41	40°09'46.527"N	104°37'39.006"W	1.45	
8162.00	89.500	358.100	6957.44	540.26	540.50	11.00	40°09'47.367"N	104°37'39.024"W	2.31	
8247.00	90.300	358.600	6957.58	625.25	625.46	8.56	40°09'48.207"N	104°37'39.056"W	1.11	
8334.00	90.000	358.400	6957.36	712.25	712.43	6.28	40°09'49.066"N	104°37'39.085"W	0.41	
8420.00	88.300	357.000	6958.63	798.21	798.35	2.83	40°09'49.915"N	104°37'39.130"W	2.56	
8505.00	88.200	357.400	6961.23	883.12	883.21	-1.32	40°09'50.754"N	104°37'39.183"W	0.48	
8590.00	90.200	357.200	6962.41	968.06	968.10	-5.32	40°09'51.593"N	104°37'39.235"W	2.36	
8675.00	88.600	358.200	6963.30	1053.03	1053.02	-8.74	40°09'52.432"N	104°37'39.279"W	2.22	
8761.00	88.300	358.300	6965.63	1138.99	1138.95	-11.36	40°09'53.281"N	104°37'39.312"W	0.37	
8848.00	88.500	357.400	6968.06	1225.93	1225.86	-14.62	40°09'54.140"N	104°37'39.354"W	1.06	
8933.00	89.100	358.400	6969.84	1310.90	1310.78	-17.74	40°09'54.979"N	104°37'39.394"W	1.37	
9018.00	89.000	358.900	6971.25	1395.88	1395.74	-19.74	40°09'55.819"N	104°37'39.420"W	0.60	
9105.00	88.300	359.300	6973.30	1482.86	1482.71	-21.11	40°09'56.678"N	104°37'39.438"W	0.93	
9193.00	88.700	359.300	6975.60	1570.83	1570.67	-22.18	40°09'57.547"N	104°37'39.452"W	0.45	
9278.00	89.100	0.100	6977.23	1655.80	1655.65	-22.63	40°09'58.387"N	104°37'39.457"W	1.05	
9365.00	89.200	359.400	6978.53	1742.79	1742.64	-23.00	40°09'59.247"N	104°37'39.462"W	0.81	
9450.00	90.800	359.600	6978.53	1827.78	1827.64	-23.75	40°10'00.087"N	104°37'39.472"W	1.90	
9537.00	89.000	0.400	6978.68	1914.77	1914.63	-23.75	40°10'00.946"N	104°37'39.472"W	2.26	
9622.00	90.500	0.000	6979.05	1999.75	1999.63	-23.45	40°10'01.786"N	104°37'39.468"W	1.83	
9707.00	88.900	359.500	6979.49	2084.74	2084.62	-23.82	40°10'02.626"N	104°37'39.473"W	1.97	
9792.00	89.500	359.200	6980.68	2169.73	2169.61	-24.79	40°10'03.466"N	104°37'39.485"W	0.79	
9877.00	89.500	359.500	6981.42	2254.73	2254.60	-25.75	40°10'04.306"N	104°37'39.498"W	0.35	
9962.00	89.000	358.300	6982.53	2339.72	2339.57	-27.38	40°10'05.146"N	104°37'39.519"W	1.53	
10047.00	88.500	359.200	6984.39	2424.69	2424.53	-29.23	40°10'05.985"N	104°37'39.543"W	1.21	
10134.00	88.400	359.000	6986.74	2511.66	2511.49	-30.60	40°10'06.845"N	104°37'39.560"W	0.26	
10220.00	88.700	358.800	6988.92	2597.63	2597.45	-32.25	40°10'07.694"N	104°37'39.581"W	0.42	
10307.00	89.100	358.800	6990.59	2684.62	2684.41	-34.07	40°10'08.553"N	104°37'39.605"W	0.46	
10482.00	89.100	357.800	6993.34	2859.57	2859.31	-39.26	40°10'10.282"N	104°37'39.672"W	0.57	
10567.00	90.300	358.700	6993.78	2944.56	2944.27	-41.86	40°10'11.121"N	104°37'39.705"W	1.76	
10654.00	90.900	357.700	6992.87	3031.54	3031.22	-44.59	40°10'11.981"N	104°37'39.740"W	1.34	
10739.00	90.400	359.200	6991.91	3116.53	3116.18	-46.89	40°10'12.820"N	104°37'39.770"W	1.86	
10824.00	90.900	358.400	6990.94	3201.52	3201.15	-48.67	40°10'13.660"N	104°37'39.793"W	1.11	
10912.00	90.400	359.900	6989.94	3289.52	3289.14	-49.98	40°10'14.529"N	104°37'39.810"W	1.80	
10997.00	90.000	359.500	6989.65	3374.51	3374.13	-50.42	40°10'15.369"N	104°37'39.816"W	0.67	
11082.00	90.400	359.200	6989.35	3459.51	3459.13	-51.39	40°10'16.209"N	104°37'39.828"W	0.59	
11169.00	89.800	1.000	6989.20	3546.49	3546.12	-51.23	40°10'17.069"N	104°37'39.826"W	2.18	
11256.00	90.000	0.400	6989.35	3633.46	3633.12	-50.17	40°10'17.929"N	104°37'39.812"W	0.73	
11427.00	89.500	0.500	6990.10	3804.41	3804.11	-48.83	40°10'19.618"N	104°37'39.795"W	0.30	
11599.00	89.700	359.800	6991.30	3976.37	3976.10	-48.38	40°10'21.318"N	104°37'39.789"W	0.42	
11702.00	89.700	0.000	6991.84	4079.36	4079.10	-48.56	40°10'22.336"N	104°37'39.792"W	0.19	Last BHI MWD+IFR Surveys
11754.00	89.700	0.000	6992.11	4131.35	4131.10	-48.56	40°10'22.850"N	104°37'39.792"W	0.00	Projection to Bit

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 AWB <11754>
Facility	SEC.02-T2N-R65W		

HOLE & CASING SECTIONS - Ref Wellbore: GREENLEAF 27N-2HZ AWB <11754> Ref Wellpath: GREENLEAF 27N-2HZ 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]
13.5in Open Hole	16.00	1324.00	1308.00	16.00	1323.96	0.00	0.00	0.53	-1.53
9.625in Casing Surface	16.00	1314.00	1298.00	16.00	1313.96	0.00	0.00	0.54	-1.56
8.75in Open Hole	1324.00	7400.00	6076.00	1323.96	6963.42	0.53	-1.53	-221.02	24.72
7in Casing Intermediate	16.00	7390.00	7374.00	16.00	6962.50	0.00	0.00	-230.97	24.94
6.125in Open Hole	7400.00	11754.00	4354.00	6963.42	6992.11	-221.02	24.72	4131.10	-48.56

TARGETS

Name	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
GREENLEAF 27N-2HZ BHL (460'FNL & 1670'FEL, SEC.02) REV-2	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

WELLPATH COMPOSITION - Ref Wellbore: GREENLEAF 27N-2HZ AWB <11754> Ref Wellpath: GREENLEAF 27N-2HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1279.00	ISCWSA MWD, Rev. 3 (Standard)	CATHEDRAL ENERGY MWD SURVEYS <129-1279>	GREENLEAF 27N-2HZ AWB <11754>
1279.00	7359.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1365-7359>	GREENLEAF 27N-2HZ AWB <11754>
7359.00	11702.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/2" HOLE <7478-11702>	GREENLEAF 27N-2HZ AWB <11754>
11702.00	11754.00	Blind Drilling (std)	Projection to bit	GREENLEAF 27N-2HZ AWB <11754>

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 AWB <11754>
Facility	SEC.02-T2N-R65W		

WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	143.900	16.00	Tie-On
129.00	0.800	143.900	129.00	Begin CATHEDRAL MWD Surveys
1279.00	0.200	66.000	1278.96	Tie-Into CATHEDRAL MWD Surveys
1365.00	0.300	132.200	1364.96	Begin BHI MWD+IFR Surveys
7390.00	84.462	358.603	6962.50	7" Casing Point
11702.00	89.700	0.000	6991.84	Last BHI MWD+IFR Surveys
11754.00	89.700	0.000	6992.11	Projection to Bit