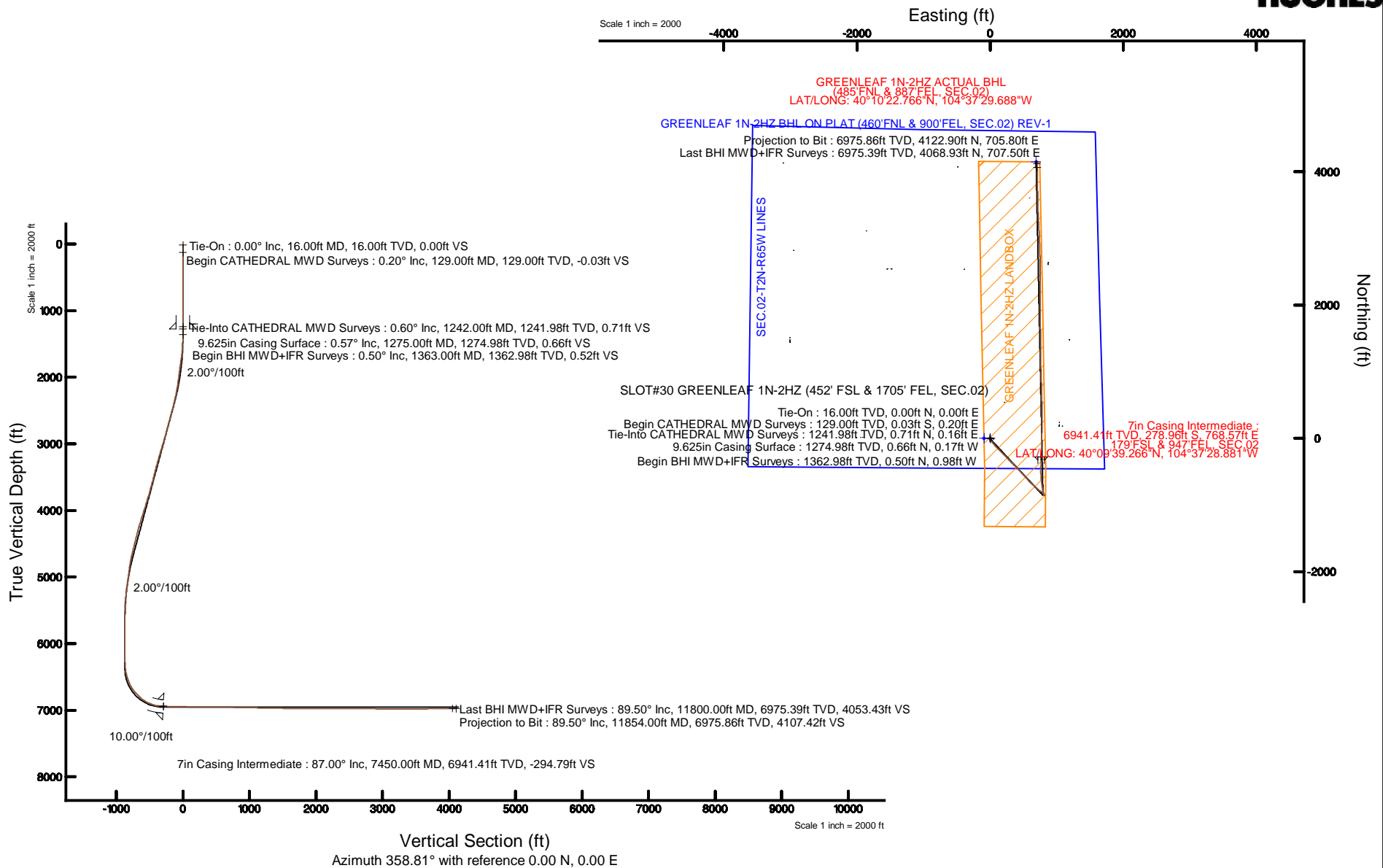


# KERR-MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)  
 Field: WELD COUNTY (KERR MCGEE) Well: GREENLEAF 1N-2HZ  
 Facility: SEC.02-T2N-R65W Wellbore: GREENLEAF 1N-2HZ PWB

Plot reference wellpath is GREENLEAF 1N-2HZ (REV-B.0) PWB

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#30 GREENLEAF 1N-2HZ (452' FSL & 1705' 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#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
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 12:23:31 PM
Convergence at slot	0.56° East	Database/Source file	WellArchitectDB/GREENLEAF_1N-2HZ_AWB__11854_.xml

### WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-232.02	-1039.44	3243867.68	1302940.48	40°09'42.023"N	104°37'38.780"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#30 GREENLEAF 1N-2HZ (452' FSL & 1705' 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	358.81°

### REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
Facility	SEC.02-T2N-R65W		

### WELLPATH DATA (129 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	98.300	0.00	0.00	0.00	0.00	40°09'42.023"N	104°37'38.780"W	0.00	
16.00	0.000	98.300	16.00	0.00	0.00	0.00	40°09'42.023"N	104°37'38.780"W	0.00	Tie-On
129.00	0.200	98.300	129.00	-0.03	-0.03	0.20	40°09'42.023"N	104°37'38.777"W	0.18	Begin CATHEDRAL MWD Surveys
209.00	0.400	66.800	209.00	0.05	0.06	0.59	40°09'42.024"N	104°37'38.772"W	0.32	
288.00	0.200	75.300	288.00	0.18	0.21	0.98	40°09'42.025"N	104°37'38.767"W	0.26	
368.00	0.300	98.300	368.00	0.18	0.21	1.32	40°09'42.025"N	104°37'38.763"W	0.17	
448.00	0.300	60.600	448.00	0.25	0.28	1.71	40°09'42.026"N	104°37'38.758"W	0.24	
528.00	0.300	93.600	527.99	0.33	0.37	2.10	40°09'42.027"N	104°37'38.753"W	0.21	
608.00	0.300	84.900	607.99	0.33	0.38	2.52	40°09'42.027"N	104°37'38.748"W	0.06	
688.00	0.300	116.100	687.99	0.24	0.30	2.91	40°09'42.026"N	104°37'38.742"W	0.20	
768.00	0.100	230.100	767.99	0.10	0.17	3.05	40°09'42.025"N	104°37'38.741"W	0.44	
848.00	0.300	290.400	847.99	0.14	0.20	2.80	40°09'42.025"N	104°37'38.744"W	0.33	
928.00	0.400	257.800	927.99	0.16	0.21	2.33	40°09'42.025"N	104°37'38.750"W	0.27	
1008.00	0.400	303.600	1007.99	0.27	0.31	1.82	40°09'42.026"N	104°37'38.757"W	0.39	
1088.00	0.500	291.400	1087.99	0.56	0.59	1.27	40°09'42.029"N	104°37'38.764"W	0.17	
1168.00	0.300	278.300	1167.98	0.73	0.74	0.73	40°09'42.030"N	104°37'38.771"W	0.27	
1242.00	0.600	260.900	1241.98	0.71	0.71	0.16	40°09'42.030"N	104°37'38.778"W	0.44	Tie-Into CATHEDRAL MWD Surveys
1363.00	0.500	257.500	1362.98	0.52	0.50	-0.98	40°09'42.028"N	104°37'38.793"W	0.09	Begin BHI MWD+IFR Surveys
1457.00	1.300	129.700	1456.97	-0.26	-0.27	-0.56	40°09'42.020"N	104°37'38.787"W	1.76	
1553.00	4.300	167.700	1552.85	-4.51	-4.49	1.04	40°09'41.979"N	104°37'38.767"W	3.51	
1646.00	7.400	183.800	1645.36	-13.90	-13.87	1.39	40°09'41.886"N	104°37'38.762"W	3.74	
1737.00	8.700	164.500	1735.48	-26.41	-26.35	2.84	40°09'41.763"N	104°37'38.743"W	3.27	
1829.00	9.800	142.600	1826.31	-39.47	-39.28	9.46	40°09'41.635"N	104°37'38.658"W	3.98	
1922.00	9.800	128.100	1917.96	-50.87	-50.46	20.50	40°09'41.524"N	104°37'38.516"W	2.65	
2016.00	10.900	134.900	2010.44	-62.34	-61.67	33.09	40°09'41.414"N	104°37'38.354"W	1.75	
2108.00	12.000	139.100	2100.61	-75.96	-75.04	45.51	40°09'41.281"N	104°37'38.194"W	1.50	
2201.00	13.100	140.900	2191.38	-91.71	-90.52	58.49	40°09'41.128"N	104°37'38.027"W	1.26	
2294.00	14.900	138.000	2281.62	-109.08	-107.59	73.14	40°09'40.960"N	104°37'37.838"W	2.08	
2386.00	18.000	139.000	2369.84	-128.95	-127.11	90.38	40°09'40.767"N	104°37'37.616"W	3.38	
2480.00	19.200	133.700	2458.94	-151.02	-148.75	111.09	40°09'40.553"N	104°37'37.349"W	2.20	
2571.00	19.900	135.400	2544.69	-172.83	-170.12	132.78	40°09'40.342"N	104°37'37.070"W	0.99	
2664.00	20.500	135.200	2631.97	-196.12	-192.94	155.37	40°09'40.116"N	104°37'36.779"W	0.65	
2756.00	20.000	134.800	2718.28	-219.09	-215.46	177.88	40°09'39.894"N	104°37'36.489"W	0.56	
2849.00	21.000	134.300	2805.39	-242.42	-238.31	201.10	40°09'39.668"N	104°37'36.190"W	1.09	
2934.00	22.000	134.900	2884.48	-264.75	-260.18	223.27	40°09'39.452"N	104°37'35.904"W	1.20	
3019.00	22.100	136.500	2963.26	-288.04	-283.02	245.56	40°09'39.226"N	104°37'35.617"W	0.72	
3106.00	22.900	137.100	3043.64	-312.78	-307.29	268.35	40°09'38.986"N	104°37'35.324"W	0.96	
3190.00	21.300	136.100	3121.46	-336.19	-330.26	290.05	40°09'38.759"N	104°37'35.044"W	1.96	
3275.00	21.200	135.300	3200.69	-358.67	-352.31	311.57	40°09'38.541"N	104°37'34.767"W	0.36	
3362.00	21.600	133.100	3281.69	-381.26	-374.43	334.33	40°09'38.323"N	104°37'34.474"W	1.03	
3447.00	21.100	136.300	3360.86	-403.47	-396.18	356.32	40°09'38.108"N	104°37'34.191"W	1.49	
3533.00	19.800	132.200	3441.44	-424.88	-417.16	377.81	40°09'37.901"N	104°37'33.914"W	2.25	
3618.00	19.800	133.600	3521.42	-444.91	-436.76	398.90	40°09'37.707"N	104°37'33.642"W	0.56	
3703.00	20.100	138.600	3601.32	-466.21	-457.64	418.98	40°09'37.501"N	104°37'33.384"W	2.04	
3788.00	20.500	133.900	3681.05	-487.91	-478.92	439.37	40°09'37.290"N	104°37'33.121"W	1.97	

### REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
Facility	SEC.02-T2N-R65W		

### WELLPATH DATA (129 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3876.00	21.100	138.400	3763.32	-510.88	-501.45	460.99	40°09'37.068"N	104°37'32.843"W	1.94	
3963.00	22.100	137.200	3844.21	-535.04	-525.17	482.51	40°09'36.833"N	104°37'32.565"W	1.26	
4050.00	22.100	136.800	3924.81	-559.43	-549.11	504.83	40°09'36.597"N	104°37'32.278"W	0.17	
4135.00	22.700	140.700	4003.40	-584.22	-573.46	526.16	40°09'36.356"N	104°37'32.003"W	1.89	
4223.00	22.600	139.600	4084.62	-610.68	-599.48	547.88	40°09'36.099"N	104°37'31.723"W	0.49	
4312.00	21.400	138.500	4167.14	-636.31	-624.66	569.72	40°09'35.850"N	104°37'31.442"W	1.43	
4401.00	22.000	133.400	4249.84	-660.39	-648.28	592.60	40°09'35.617"N	104°37'31.148"W	2.22	
4486.00	21.300	133.100	4328.84	-682.35	-669.77	615.44	40°09'35.404"N	104°37'30.853"W	0.83	
4571.00	19.300	132.800	4408.56	-702.89	-689.86	637.02	40°09'35.206"N	104°37'30.575"W	2.36	
4659.00	19.600	133.300	4491.53	-723.33	-709.86	658.43	40°09'35.008"N	104°37'30.300"W	0.39	
4748.00	19.400	134.100	4575.43	-744.29	-730.39	679.91	40°09'34.805"N	104°37'30.023"W	0.37	
4833.00	17.700	134.700	4656.01	-763.60	-749.30	699.23	40°09'34.618"N	104°37'29.774"W	2.01	
4918.00	16.400	130.900	4737.27	-780.92	-766.25	717.49	40°09'34.451"N	104°37'29.539"W	2.01	
5005.00	14.900	127.400	4821.05	-796.13	-781.09	735.66	40°09'34.304"N	104°37'29.305"W	2.04	
5092.00	13.600	121.600	4905.37	-808.65	-793.24	753.26	40°09'34.184"N	104°37'29.078"W	2.22	
5179.00	11.700	122.500	4990.26	-819.08	-803.34	769.41	40°09'34.084"N	104°37'28.870"W	2.20	
5267.00	11.300	127.800	5076.49	-829.45	-813.42	783.75	40°09'33.985"N	104°37'28.686"W	1.28	
5352.00	10.600	138.700	5159.96	-840.67	-824.40	795.49	40°09'33.876"N	104°37'28.534"W	2.57	
5439.00	7.800	147.300	5245.83	-851.83	-835.38	803.96	40°09'33.768"N	104°37'28.425"W	3.58	
5524.00	6.100	151.100	5330.20	-860.74	-844.19	809.26	40°09'33.681"N	104°37'28.357"W	2.07	
5609.00	3.100	156.400	5414.92	-866.87	-850.25	812.37	40°09'33.621"N	104°37'28.317"W	3.56	
5697.00	1.400	160.500	5502.85	-870.09	-853.44	813.68	40°09'33.589"N	104°37'28.300"W	1.94	
5782.00	0.800	219.500	5587.84	-871.52	-854.88	813.65	40°09'33.575"N	104°37'28.301"W	1.41	
6211.00	0.600	42.800	6016.83	-872.18	-855.54	813.27	40°09'33.568"N	104°37'28.305"W	0.33	
6382.00	0.100	229.000	6187.82	-871.63	-854.98	813.76	40°09'33.574"N	104°37'28.299"W	0.41	
6468.00	1.900	318.400	6273.81	-870.59	-853.97	812.76	40°09'33.584"N	104°37'28.312"W	2.21	
6553.00	5.800	340.500	6358.60	-865.44	-848.86	810.39	40°09'33.634"N	104°37'28.342"W	4.83	
6638.00	13.200	344.500	6442.38	-851.94	-835.44	806.36	40°09'33.767"N	104°37'28.394"W	8.74	
6724.00	16.900	344.800	6525.41	-830.29	-813.91	800.45	40°09'33.980"N	104°37'28.470"W	4.30	
6808.00	25.000	349.600	6603.80	-800.87	-784.62	794.04	40°09'34.269"N	104°37'28.553"W	9.85	
6894.00	34.000	351.000	6678.58	-759.03	-742.91	786.98	40°09'34.681"N	104°37'28.644"W	10.50	
6979.00	42.900	352.000	6745.08	-706.65	-690.68	779.22	40°09'35.198"N	104°37'28.744"W	10.50	
7064.00	49.000	353.600	6804.15	-645.92	-630.10	771.61	40°09'35.796"N	104°37'28.842"W	7.30	
7150.00	55.600	356.000	6856.72	-578.08	-562.37	765.51	40°09'36.465"N	104°37'28.920"W	7.98	
7237.00	66.900	0.100	6898.51	-501.96	-486.28	763.07	40°09'37.217"N	104°37'28.952"W	13.63	
7325.00	77.100	2.000	6925.67	-418.45	-402.72	764.64	40°09'38.043"N	104°37'28.932"W	11.77	
7412.00	85.400	1.700	6938.89	-332.66	-316.85	767.41	40°09'38.892"N	104°37'28.896"W	9.55	
7450.00†	87.000	1.800	6941.41	-294.79	-278.96	768.57	40°09'39.266"N	104°37'28.881"W	4.22	7" Casing Point
7488.00	88.600	1.900	6942.87	-256.87	-241.01	769.80	40°09'39.641"N	104°37'28.865"W	4.22	
7574.00	89.400	0.900	6944.37	-170.98	-155.05	771.90	40°09'40.491"N	104°37'28.838"W	1.49	
7659.00	89.200	1.700	6945.41	-86.06	-70.07	773.82	40°09'41.330"N	104°37'28.813"W	0.97	
7744.00	88.400	1.800	6947.19	-1.19	14.87	776.42	40°09'42.170"N	104°37'28.780"W	0.95	
7830.00	87.600	1.600	6950.19	84.64	100.78	778.97	40°09'43.019"N	104°37'28.747"W	0.96	
7915.00	89.200	1.500	6952.56	169.51	185.71	781.27	40°09'43.858"N	104°37'28.717"W	1.89	
8001.00	89.400	0.800	6953.62	255.43	271.68	782.99	40°09'44.708"N	104°37'28.695"W	0.85	

REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
Facility	SEC.02-T2N-R65W		

WELLPATH DATA (129 stations)										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8088.00	89.800	359.600	6954.22	342.40	358.68	783.30	40°09'45.567"N	104°37'28.691"W	1.45	
8173.00	90.300	358.200	6954.15	427.40	443.66	781.66	40°09'46.407"N	104°37'28.712"W	1.75	
8259.00	90.200	358.100	6953.77	513.39	529.62	778.89	40°09'47.257"N	104°37'28.748"W	0.16	
8345.00	89.500	358.100	6954.00	599.39	615.57	776.04	40°09'48.106"N	104°37'28.784"W	0.81	
8429.00	89.300	359.600	6954.88	683.38	699.54	774.35	40°09'48.936"N	104°37'28.806"W	1.80	
8514.00	89.000	358.300	6956.14	768.37	784.52	772.79	40°09'49.776"N	104°37'28.826"W	1.57	
8684.00	87.900	357.700	6960.74	938.29	954.35	766.86	40°09'51.454"N	104°37'28.902"W	0.74	
8771.00	89.700	358.800	6962.56	1025.26	1041.28	764.21	40°09'52.313"N	104°37'28.937"W	2.42	
8941.00	89.800	359.300	6963.30	1195.25	1211.26	761.39	40°09'53.993"N	104°37'28.973"W	0.30	
9113.00	88.100	359.500	6966.45	1367.21	1383.21	759.59	40°09'55.692"N	104°37'28.996"W	1.00	
9199.00	88.400	358.900	6969.08	1453.17	1469.17	758.39	40°09'56.541"N	104°37'29.011"W	0.78	
9286.00	89.400	0.100	6970.75	1540.14	1556.14	757.63	40°09'57.401"N	104°37'29.021"W	1.80	
9371.00	89.800	359.200	6971.34	1625.13	1641.14	757.11	40°09'58.241"N	104°37'29.028"W	1.16	
9458.00	89.300	359.100	6972.03	1712.13	1728.13	755.82	40°09'59.100"N	104°37'29.044"W	0.59	
9543.00	90.800	359.500	6971.95	1797.12	1813.12	754.78	40°09'59.940"N	104°37'29.058"W	1.83	
9713.00	89.800	359.100	6971.06	1967.11	1983.10	752.70	40°10'01.620"N	104°37'29.084"W	0.63	
9798.00	89.200	358.800	6971.80	2052.11	2068.08	751.15	40°10'02.460"N	104°37'29.104"W	0.79	
9883.00	90.200	0.200	6972.25	2137.09	2153.07	750.41	40°10'03.300"N	104°37'29.114"W	2.02	
10053.00	89.700	1.800	6972.40	2306.96	2323.04	753.37	40°10'04.979"N	104°37'29.076"W	0.99	
10140.00	90.600	359.900	6972.17	2393.90	2410.03	754.66	40°10'05.839"N	104°37'29.059"W	2.42	
10225.00	90.200	0.000	6971.58	2478.89	2495.02	754.59	40°10'06.679"N	104°37'29.060"W	0.49	
10312.00	90.300	359.100	6971.20	2565.88	2582.02	753.91	40°10'07.539"N	104°37'29.069"W	1.04	
10399.00	90.000	358.400	6970.97	2652.88	2669.00	752.01	40°10'08.398"N	104°37'29.093"W	0.88	
10573.00	87.700	357.900	6974.46	2826.82	2842.86	746.39	40°10'10.116"N	104°37'29.165"W	1.35	
10659.00	87.900	358.400	6977.76	2912.75	2928.75	743.62	40°10'10.965"N	104°37'29.201"W	0.63	
10746.00	89.500	357.700	6979.74	2999.71	3015.68	740.66	40°10'11.824"N	104°37'29.239"W	2.01	
10831.00	90.700	357.400	6979.59	3084.69	3100.60	737.02	40°10'12.663"N	104°37'29.286"W	1.46	
10918.00	90.200	357.000	6978.90	3171.65	3187.49	732.77	40°10'13.522"N	104°37'29.341"W	0.74	
11003.00	89.600	356.400	6979.05	3256.59	3272.35	727.88	40°10'14.360"N	104°37'29.404"W	1.00	
11088.00	90.200	357.500	6979.20	3341.55	3357.23	723.36	40°10'15.199"N	104°37'29.462"W	1.47	
11175.00	89.400	357.400	6979.50	3428.52	3444.14	719.49	40°10'16.058"N	104°37'29.512"W	0.93	
11262.00	89.800	359.300	6980.11	3515.51	3531.10	716.98	40°10'16.917"N	104°37'29.544"W	2.23	
11347.00	91.500	359.700	6979.15	3600.50	3616.08	716.24	40°10'17.757"N	104°37'29.553"W	2.05	
11432.00	91.500	359.200	6976.92	3685.46	3701.05	715.43	40°10'18.597"N	104°37'29.564"W	0.59	
11519.00	90.100	359.200	6975.71	3772.45	3788.03	714.21	40°10'19.456"N	104°37'29.580"W	1.61	
11604.00	89.000	358.200	6976.38	3857.45	3873.00	712.28	40°10'20.296"N	104°37'29.604"W	1.75	
11691.00	91.300	359.000	6976.15	3944.44	3959.97	710.16	40°10'21.155"N	104°37'29.632"W	2.80	
11800.00	89.500	358.200	6975.39	4053.43	4068.93	707.50	40°10'22.232"N	104°37'29.666"W	1.81	Last BHI MWD+IFR Surveys
11854.00	89.500	358.200	6975.86	4107.42	4122.90	705.80	40°10'22.766"N	104°37'29.688"W	0.00	Projection to Bit

### REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
Facility	SEC.02-T2N-R65W		

### HOLE & CASING SECTIONS - Ref Wellbore: GREENLEAF 1N-2HZ AWB <11854> Ref Wellpath: GREENLEAF 1N-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	1287.00	1271.00	16.00	1286.98	0.00	0.00	0.63	-0.29
9.625in Casing Surface	16.00	1275.00	1259.00	16.00	1274.98	0.00	0.00	0.66	-0.17
8.75in Open Hole	1287.00	7458.00	6171.00	1286.98	6941.81	0.63	-0.29	-270.97	768.82
7in Casing Intermediate	16.00	7450.00	7434.00	16.00	6941.41	0.00	0.00	-278.96	768.57
6.125in Open Hole	7458.00	11854.00	4396.00	6941.81	6975.86	-270.97	768.82	4122.90	705.80

### 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	0.71	-89.75	3243777.93	1302940.31	40°09'42.030"N	104°37'39.936"W	polygon
GREENLEAF 1N-2HZ BHL ON PLAT (460'FNL & 900'FEL, SEC.02) REV-1	6952.00	4148.97	692.18	3244518.97	1307095.88	40°10'23.023"N	104°37'29.863"W	point
GREENLEAF 1N-2HZ LANDBOX	6953.00	0.00	0.00	3243867.68	1302940.48	40°09'42.023"N	104°37'38.780"W	polygon

### WELLPATH COMPOSITION - Ref Wellbore: GREENLEAF 1N-2HZ AWB <11854> Ref Wellpath: GREENLEAF 1N-2HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1242.00	ISCWSA MWD, Rev. 3 (Standard)	CATHEDRAL ENERGY MWD SURVEYS <129-1242>	GREENLEAF 1N-2HZ AWB <11854>
1242.00	7412.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1363-7412>	GREENLEAF 1N-2HZ AWB <11854>
7412.00	11800.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <7488-11800>	GREENLEAF 1N-2HZ AWB <11854>
11800.00	11854.00	Blind Drilling (std)	Projection to bit	GREENLEAF 1N-2HZ AWB <11854>

### REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#30 GREENLEAF 1N-2HZ (452' FSL & 1705' FEL, SEC.02)
Area	COLORADO	Well	GREENLEAF 1N-2HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GREENLEAF 1N-2HZ AWB <11854>
Facility	SEC.02-T2N-R65W		

### WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	98.300	16.00	Tie-On
129.00	0.200	98.300	129.00	Begin CATHEDRAL MWD Surveys
1242.00	0.600	260.900	1241.98	Tie-Into CATHEDRAL MWD Surveys
1363.00	0.500	257.500	1362.98	Begin BHI MWD+IFR Surveys
7450.00	87.000	1.800	6941.41	7" Casing Point
11800.00	89.500	358.200	6975.39	Last BHI MWD+IFR Surveys
11854.00	89.500	358.200	6975.86	Projection to Bit