



# Planned Wellpath Report

NRC 2C-5HZ PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 NRC 2C-5HZ (500'FNL & 1320'FEL, SEC.08)
Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

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	0.999962	Report Generated	23/Jun/2014 at 14:52
Convergence at slot	n/a	Database/Source file	WellArchitectDB/NRC_2C-5HZ_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	3737.02	87.93	3165163.09	1269413.79	40°04'17.120"N	104°54'35.398"W
Facility Reference Pt			3165100.03	1265676.42	40°03'40.190"N	104°54'36.529"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	5025.00ft
Horizontal Reference Pt	Slot	XTREME 23 (16'KB) (RKB) to Mean Sea Level	5025.00ft
Vertical Reference Pt	XTREME 23 (16'KB) (RKB)	XTREME 23 (16'KB) (RKB) to Mud Line at Slot (SLOT#25 NRC 2C-5HZ (500'FNL & 1320'FEL, SEC.08))	5025.00ft
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	359.30°

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Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (147 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	222.940	0.00	0.00	0.00	0.00	40°04'17.120"N	104°54'35.398"W	0.00	
16.00	0.000	222.940	16.00	0.00	0.00	0.00	40°04'17.120"N	104°54'35.398"W	0.00	
116.00	0.130	222.940	116.00	-0.08	-0.08	-0.08	40°04'17.119"N	104°54'35.399"W	0.13	
216.00	0.200	229.870	216.00	-0.28	-0.28	-0.29	40°04'17.117"N	104°54'35.402"W	0.07	
316.00	0.260	259.620	316.00	-0.42	-0.43	-0.64	40°04'17.116"N	104°54'35.406"W	0.13	
416.00	0.370	251.590	416.00	-0.56	-0.57	-1.17	40°04'17.114"N	104°54'35.413"W	0.12	
516.00	0.390	269.950	516.00	-0.65	-0.68	-1.82	40°04'17.113"N	104°54'35.421"W	0.12	
616.00	0.530	249.170	615.99	-0.81	-0.84	-2.59	40°04'17.112"N	104°54'35.431"W	0.22	
716.00	0.380	238.560	715.99	-1.14	-1.18	-3.31	40°04'17.108"N	104°54'35.441"W	0.17	
816.00	0.500	238.210	815.99	-1.53	-1.58	-3.96	40°04'17.104"N	104°54'35.449"W	0.12	
916.00	0.410	242.500	915.98	-1.92	-1.98	-4.65	40°04'17.100"N	104°54'35.458"W	0.10	
1016.00	0.320	243.510	1015.98	-2.20	-2.27	-5.22	40°04'17.098"N	104°54'35.465"W	0.09	
1116.00	0.270	237.260	1115.98	-2.45	-2.52	-5.67	40°04'17.095"N	104°54'35.471"W	0.06	
1216.00	0.330	230.230	1215.98	-2.76	-2.83	-6.09	40°04'17.092"N	104°54'35.476"W	0.07	
1229.00	0.330	224.270	1228.98	-2.81	-2.88	-6.14	40°04'17.092"N	104°54'35.477"W	0.26	TIE-INTO GYRO SURVEYS
1229.02†	0.330	224.270	1229.00	-2.81	-2.88	-6.14	40°04'17.092"N	104°54'35.477"W	0.00	Fox Hills Marker
1329.00†	0.330	224.270	1328.98	-3.21	-3.29	-6.54	40°04'17.087"N	104°54'35.482"W	0.00	
1429.00†	0.330	224.270	1428.97	-3.62	-3.71	-6.94	40°04'17.083"N	104°54'35.487"W	0.00	
1500.03	0.330	224.270	1500.00	-3.91	-4.00	-7.23	40°04'17.080"N	104°54'35.491"W	0.00	BEGIN NUDGE
1529.00†	0.807	261.448	1528.97	-4.00	-4.09	-7.49	40°04'17.080"N	104°54'35.494"W	2.00	
1629.00†	2.772	275.829	1628.92	-3.82	-3.95	-10.59	40°04'17.081"N	104°54'35.534"W	2.00	
1729.00†	4.766	278.242	1728.70	-2.90	-3.11	-17.11	40°04'17.089"N	104°54'35.618"W	2.00	
1829.00†	6.763	279.233	1828.19	-1.24	-1.57	-27.03	40°04'17.105"N	104°54'35.746"W	2.00	
1929.00†	8.762	279.773	1927.27	1.16	0.67	-40.35	40°04'17.127"N	104°54'35.917"W	2.00	
1990.92	10.000	280.000	1988.36	3.02	2.41	-50.30	40°04'17.144"N	104°54'36.045"W	2.00	END NUDGE
2029.00†	10.000	280.000	2025.86	4.24	3.55	-56.81	40°04'17.155"N	104°54'36.129"W	0.00	
2129.00†	10.000	280.000	2124.34	7.47	6.57	-73.91	40°04'17.185"N	104°54'36.349"W	0.00	
2229.00†	10.000	280.000	2222.82	10.69	9.58	-91.01	40°04'17.215"N	104°54'36.569"W	0.00	
2329.00†	10.000	280.000	2321.30	13.91	12.60	-108.11	40°04'17.245"N	104°54'36.789"W	0.00	
2429.00†	10.000	280.000	2419.78	17.13	15.62	-125.21	40°04'17.274"N	104°54'37.009"W	0.00	
2529.00†	10.000	280.000	2518.26	20.36	18.63	-142.31	40°04'17.304"N	104°54'37.229"W	0.00	
2629.00†	10.000	280.000	2616.74	23.58	21.65	-159.41	40°04'17.334"N	104°54'37.449"W	0.00	
2729.00†	10.000	280.000	2715.22	26.80	24.66	-176.52	40°04'17.364"N	104°54'37.669"W	0.00	
2829.00†	10.000	280.000	2813.70	30.03	27.68	-193.62	40°04'17.393"N	104°54'37.888"W	0.00	
2929.00†	10.000	280.000	2912.18	33.25	30.69	-210.72	40°04'17.423"N	104°54'38.108"W	0.00	
3029.00†	10.000	280.000	3010.66	36.47	33.71	-227.82	40°04'17.453"N	104°54'38.328"W	0.00	
3129.00†	10.000	280.000	3109.15	39.70	36.72	-244.92	40°04'17.483"N	104°54'38.548"W	0.00	
3229.00†	10.000	280.000	3207.63	42.92	39.74	-262.02	40°04'17.513"N	104°54'38.768"W	0.00	
3329.00†	10.000	280.000	3306.11	46.14	42.75	-279.12	40°04'17.542"N	104°54'38.988"W	0.00	
3429.00†	10.000	280.000	3404.59	49.36	45.77	-296.22	40°04'17.572"N	104°54'39.208"W	0.00	
3529.00†	10.000	280.000	3503.07	52.59	48.78	-313.32	40°04'17.602"N	104°54'39.428"W	0.00	
3629.00†	10.000	280.000	3601.55	55.81	51.80	-330.42	40°04'17.632"N	104°54'39.648"W	0.00	
3729.00†	10.000	280.000	3700.03	59.03	54.81	-347.53	40°04'17.662"N	104°54'39.868"W	0.00	
3774.66	10.000	280.000	3745.00	60.50	56.19	-355.33	40°04'17.675"N	104°54'39.969"W	0.00	BEGIN DROP
3829.00†	8.913	280.000	3798.60	62.16	57.74	-364.13	40°04'17.691"N	104°54'40.082"W	2.00	

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Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
3929.00†	6.913	280.000	3897.64	64.72	60.13	-377.68	40°04'17.714"N	104°54'40.256"W	2.00	
4029.00†	4.913	280.000	3997.10	66.63	61.92	-387.83	40°04'17.732"N	104°54'40.387"W	2.00	
4129.00†	2.913	280.000	4096.86	67.89	63.11	-394.55	40°04'17.744"N	104°54'40.473"W	2.00	
4229.00†	0.913	280.000	4196.80	68.51	63.69	-397.84	40°04'17.749"N	104°54'40.515"W	2.00	
4245.20†	0.589	280.000	4213.00	68.55	63.72	-398.05	40°04'17.750"N	104°54'40.518"W	2.00	Parkman
4274.66	0.000	359.304	4242.47	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	2.00	END DROP
4329.00†	0.000	359.304	4296.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4429.00†	0.000	359.304	4396.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4529.00†	0.000	359.304	4496.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4580.20†	0.000	359.304	4548.00	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	Sussex
4629.00†	0.000	359.304	4596.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4729.00†	0.000	359.304	4696.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4829.00†	0.000	359.304	4796.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
4929.00†	0.000	359.304	4896.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5029.00†	0.000	359.304	4996.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5129.00†	0.000	359.304	5096.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5229.00†	0.000	359.304	5196.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5329.00†	0.000	359.304	5296.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5429.00†	0.000	359.304	5396.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5529.00†	0.000	359.304	5496.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5629.00†	0.000	359.304	5596.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5729.00†	0.000	359.304	5696.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5829.00†	0.000	359.304	5796.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
5929.00†	0.000	359.304	5896.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6029.00†	0.000	359.304	5996.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6129.00†	0.000	359.304	6096.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6229.00†	0.000	359.304	6196.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6329.00†	0.000	359.304	6296.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6429.00†	0.000	359.304	6396.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6529.00†	0.000	359.304	6496.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6629.00†	0.000	359.304	6596.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6729.00†	0.000	359.304	6696.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6829.00†	0.000	359.304	6796.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
6929.00†	0.000	359.304	6896.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
7029.00†	0.000	359.304	6996.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
7129.00†	0.000	359.304	7096.80	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	
7144.24	0.000	359.304	7112.05	68.58	63.75	-398.20	40°04'17.750"N	104°54'40.520"W	0.00	KOP, BUILD @ 10°/100'
7229.00†	8.476	359.304	7196.49	74.84	70.01	-398.27	40°04'17.812"N	104°54'40.521"W	10.00	
7329.00†	18.476	359.304	7293.62	98.11	93.28	-398.55	40°04'18.042"N	104°54'40.525"W	10.00	
7343.17†	19.893	359.304	7307.00	102.77	97.93	-398.61	40°04'18.088"N	104°54'40.525"W	10.00	SSPG
7407.35†	26.310	359.304	7366.00	127.94	123.10	-398.92	40°04'18.336"N	104°54'40.529"W	10.00	NBRR
7429.00†	28.476	359.304	7385.22	137.90	133.06	-399.04	40°04'18.435"N	104°54'40.531"W	10.00	
7504.46†	36.022	359.304	7449.00	178.14	173.30	-399.53	40°04'18.833"N	104°54'40.537"W	10.00	N470_B_CK
7529.00†	38.476	359.304	7468.53	192.99	188.15	-399.71	40°04'18.979"N	104°54'40.539"W	10.00	
7611.20†	46.696	359.304	7529.00	248.56	243.72	-400.38	40°04'19.528"N	104°54'40.548"W	10.00	N700_C_CK

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NRC 2C-5HZ PWP (REV-B.0)

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Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7629.00†	48.476	359.304	7541.00	261.70	256.86	-400.54	40°04'19.658"N	104°54'40.550"W	10.00	
7729.00†	58.476	359.304	7600.45	341.96	337.11	-401.52	40°04'20.451"N	104°54'40.563"W	10.00	
7829.00†	68.476	359.304	7645.05	431.32	426.46	-402.60	40°04'21.334"N	104°54'40.577"W	10.00	
7861.16†	71.692	359.304	7656.00	461.56	456.69	-402.97	40°04'21.633"N	104°54'40.582"W	10.00	FRHS
7929.00†	78.476	359.304	7673.45	527.07	522.21	-403.76	40°04'22.281"N	104°54'40.592"W	10.00	
7942.54†	79.829	359.304	7676.00	540.37	535.50	-403.93	40°04'22.412"N	104°54'40.594"W	10.00	CDLL
8029.00†	88.476	359.304	7684.80	626.30	621.42	-404.97	40°04'23.261"N	104°54'40.607"W	10.00	
8044.84	90.060	359.304	7685.00	642.14	637.26	-405.16	40°04'23.418"N	104°54'40.610"W	10.00	LANDING POINT
8129.00†	90.060	359.304	7684.92	726.30	721.42	-406.19	40°04'24.249"N	104°54'40.623"W	0.00	
8229.00†	90.060	359.304	7684.81	826.30	821.41	-407.40	40°04'25.237"N	104°54'40.639"W	0.00	
8329.00†	90.060	359.304	7684.71	926.30	921.40	-408.61	40°04'26.225"N	104°54'40.654"W	0.00	
8429.00†	90.060	359.304	7684.60	1026.30	1021.39	-409.83	40°04'27.214"N	104°54'40.670"W	0.00	
8529.00†	90.060	359.304	7684.50	1126.30	1121.39	-411.04	40°04'28.202"N	104°54'40.686"W	0.00	
8629.00†	90.060	359.304	7684.39	1226.30	1221.38	-412.26	40°04'29.190"N	104°54'40.701"W	0.00	
8729.00†	90.060	359.304	7684.29	1326.30	1321.37	-413.47	40°04'30.178"N	104°54'40.717"W	0.00	
8829.00†	90.060	359.304	7684.18	1426.30	1421.36	-414.69	40°04'31.166"N	104°54'40.732"W	0.00	
8929.00†	90.060	359.304	7684.08	1526.30	1521.36	-415.90	40°04'32.154"N	104°54'40.748"W	0.00	
9029.00†	90.060	359.304	7683.98	1626.30	1621.35	-417.12	40°04'33.142"N	104°54'40.764"W	0.00	
9129.00†	90.060	359.304	7683.87	1726.30	1721.34	-418.33	40°04'34.131"N	104°54'40.779"W	0.00	
9229.00†	90.060	359.304	7683.77	1826.30	1821.33	-419.55	40°04'35.119"N	104°54'40.795"W	0.00	
9329.00†	90.060	359.304	7683.66	1926.30	1921.33	-420.76	40°04'36.107"N	104°54'40.811"W	0.00	
9429.00†	90.060	359.304	7683.56	2026.30	2021.32	-421.98	40°04'37.095"N	104°54'40.826"W	0.00	
9529.00†	90.060	359.304	7683.45	2126.30	2121.31	-423.19	40°04'38.083"N	104°54'40.842"W	0.00	
9629.00†	90.060	359.304	7683.35	2226.30	2221.30	-424.41	40°04'39.071"N	104°54'40.858"W	0.00	
9729.00†	90.060	359.304	7683.25	2326.30	2321.30	-425.62	40°04'40.059"N	104°54'40.873"W	0.00	
9829.00†	90.060	359.304	7683.14	2426.30	2421.29	-426.84	40°04'41.048"N	104°54'40.889"W	0.00	
9929.00†	90.060	359.304	7683.04	2526.30	2521.28	-428.05	40°04'42.036"N	104°54'40.905"W	0.00	
10029.00†	90.060	359.304	7682.93	2626.30	2621.27	-429.27	40°04'43.024"N	104°54'40.920"W	0.00	
10129.00†	90.060	359.304	7682.83	2726.30	2721.27	-430.48	40°04'44.012"N	104°54'40.936"W	0.00	
10229.00†	90.060	359.304	7682.72	2826.29	2821.26	-431.70	40°04'45.000"N	104°54'40.952"W	0.00	
10329.00†	90.060	359.304	7682.62	2926.29	2921.25	-432.91	40°04'45.988"N	104°54'40.967"W	0.00	
10429.00†	90.060	359.304	7682.52	3026.29	3021.24	-434.12	40°04'46.976"N	104°54'40.983"W	0.00	
10529.00†	90.060	359.304	7682.41	3126.29	3121.24	-435.34	40°04'47.965"N	104°54'40.998"W	0.00	
10629.00†	90.060	359.304	7682.31	3226.29	3221.23	-436.55	40°04'48.953"N	104°54'41.014"W	0.00	
10729.00†	90.060	359.304	7682.20	3326.29	3321.22	-437.77	40°04'49.941"N	104°54'41.030"W	0.00	
10829.00†	90.060	359.304	7682.10	3426.29	3421.21	-438.98	40°04'50.929"N	104°54'41.045"W	0.00	
10929.00†	90.060	359.304	7681.99	3526.29	3521.21	-440.20	40°04'51.917"N	104°54'41.061"W	0.00	
11029.00†	90.060	359.304	7681.89	3626.29	3621.20	-441.41	40°04'52.905"N	104°54'41.077"W	0.00	
11129.00†	90.060	359.304	7681.79	3726.29	3721.19	-442.63	40°04'53.894"N	104°54'41.092"W	0.00	
11229.00†	90.060	359.304	7681.68	3826.29	3821.18	-443.84	40°04'54.882"N	104°54'41.108"W	0.00	
11329.00†	90.060	359.304	7681.58	3926.29	3921.18	-445.06	40°04'55.870"N	104°54'41.124"W	0.00	
11429.00†	90.060	359.304	7681.47	4026.29	4021.17	-446.27	40°04'56.858"N	104°54'41.139"W	0.00	
11529.00†	90.060	359.304	7681.37	4126.29	4121.16	-447.49	40°04'57.846"N	104°54'41.155"W	0.00	
11629.00†	90.060	359.304	7681.26	4226.29	4221.16	-448.70	40°04'58.834"N	104°54'41.171"W	0.00	
11729.00†	90.060	359.304	7681.16	4326.29	4321.15	-449.92	40°04'59.822"N	104°54'41.186"W	0.00	

# Planned Wellpath Report

NRC 2C-5HZ PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 NRC 2C-5HZ (500'FNL & 1320'FEL, SEC.08)
Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

WELLPATH DATA (147 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11829.00†	90.060	359.304	7681.06	4426.29	4421.14	-451.13	40°05'00.811"N	104°54'41.202"W	0.00	
11929.00†	90.060	359.304	7680.95	4526.29	4521.13	-452.35	40°05'01.799"N	104°54'41.218"W	0.00	
12029.00†	90.060	359.304	7680.85	4626.29	4621.13	-453.56	40°05'02.787"N	104°54'41.233"W	0.00	
12129.00†	90.060	359.304	7680.74	4726.29	4721.12	-454.78	40°05'03.775"N	104°54'41.249"W	0.00	
12229.00†	90.060	359.304	7680.64	4826.29	4821.11	-455.99	40°05'04.763"N	104°54'41.265"W	0.00	
12329.00†	90.060	359.304	7680.53	4926.29	4921.10	-457.21	40°05'05.751"N	104°54'41.280"W	0.00	
12429.00†	90.060	359.304	7680.43	5026.29	5021.10	-458.42	40°05'06.739"N	104°54'41.296"W	0.00	
12529.00†	90.060	359.304	7680.33	5126.29	5121.09	-459.63	40°05'07.728"N	104°54'41.312"W	0.00	
12629.00†	90.060	359.304	7680.22	5226.29	5221.08	-460.85	40°05'08.716"N	104°54'41.327"W	0.00	
12729.00†	90.060	359.304	7680.12	5326.29	5321.07	-462.06	40°05'09.704"N	104°54'41.343"W	0.00	
12829.00†	90.060	359.304	7680.01	5426.29	5421.07	-463.28	40°05'10.692"N	104°54'41.358"W	0.00	
12841.27	90.060	359.304	7680.00 <sup>1</sup>	5438.56	5433.33	-463.43	40°05'10.813"N	104°54'41.360"W	0.00	TOTAL DEPTH

HOLE & CASING SECTIONS - Ref Wellbore: NRC 2C-5HZ PWB Ref Wellpath: NRC 2C-5HZ PWP (REV-B.0)									
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	1229.00	1213.00	16.00	1228.98	0.00	0.00	-2.88	-6.14
13.5in Open Hole	1229.00	1332.00	103.00	1228.98	1331.98	-2.88	-6.14	-3.31	-6.55
9.625in Casing Surface	16.00	1322.00	1306.00	16.00	1321.98	0.00	0.00	-3.26	-6.51
8.75in Open Hole	1229.00	8044.84	6815.84	1228.98	7685.00	-2.88	-6.14	637.26	-405.16
7in Casing Intermediate	16.00	8044.84	8028.84	16.00	7685.00	0.00	0.00	637.26	-405.16
6.125in Open Hole	8044.84	12841.27	4796.43	7685.00	7680.00	637.26	-405.16	5433.33	-463.43
4.5in Casing Production	16.00	12841.27	12825.27	16.00	7680.00	0.00	0.00	5433.33	-463.43

# Planned Wellpath Report

NRC 2C-5HZ PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 NRC 2C-5HZ (500'FNL & 1320'FEL, SEC.08)
Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
SEC.05-T1N-R67W SECTION LINES		0.00	-0.30	29.93	3165193.02	1269413.69	40°04'17.117"N	104°54'35.013"W	polygon
SEC.05-T1N-R67W SETBACKS (460'FNL/FSL & 460'FEL/FWL)		0.00	-0.30	29.93	3165193.02	1269413.69	40°04'17.117"N	104°54'35.013"W	polygon
SEC.08-T1N-R67W SECTION LINES		0.00	-0.30	29.93	3165193.02	1269413.69	40°04'17.117"N	104°54'35.013"W	polygon
SEC.08-T1N-R67W SETBACKS (460'FNL/FSL & 460'FEL/FWL)		0.00	-0.30	29.93	3165193.02	1269413.69	40°04'17.117"N	104°54'35.013"W	polygon
1) NRC 2C-5HZ BHL ON PLAT (460'FNL & 1725'FEL, SEC.05) REV-2	12841.27	7680.00	5433.33	-463.43	3164663.53	1274843.70	40°05'10.813"N	104°54'41.360"W	point
NRC 2C-5HZ BHL ON PLAT (REV-1) (520'FNL & 1352'FEL, SEC.05)		7680.00	5371.76	-89.60	3165037.75	1274784.62	40°05'10.205"N	104°54'36.551"W	point
NRC 2C-5HZ LAND BOX REV-2		7680.00	0.00	0.00	3165163.09	1269413.79	40°04'17.120"N	104°54'35.398"W	polygon

SURVEY PROGRAM - Ref Wellbore: NRC 2C-5HZ PWB Ref Wellpath: NRC 2C-5HZ PWP (REV-B.0)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1229.00	Generic gyro - continuous (Standard)		NRC 2C-5HZ AWB
1229.00	8044.84	NaviTrak (MAGCORR,IFR)		NRC 2C-5HZ PWB
8044.84	12841.27	NaviTrak (MAGCORR,IFR)		NRC 2C-5HZ PWB



# Planned Wellpath Report

NRC 2C-5HZ PWP (REV-B.0)

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REFERENCE WELLPATH IDENTIFICATION			
Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#25 NRC 2C-5HZ (500'FNL & 1320'FEL, SEC.08)
Area	COLORADO	Well	NRC 2C-5HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	NRC 2C-5HZ PWB
Facility	SEC.08-T1N-R67W		

WELLPATH COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1229.02	0.330	224.270	1229.00	Fox Hills Marker
4245.20	0.589	280.000	4213.00	Parkman
4580.20	0.000	359.304	4548.00	Sussex
7343.17	19.893	359.304	7307.00	SSPG
7407.35	26.310	359.304	7366.00	NBRR
7504.46	36.022	359.304	7449.00	N470_B_CK
7611.20	46.696	359.304	7529.00	N700_C_CK
7861.16	71.692	359.304	7656.00	FRHS
7942.54	79.829	359.304	7676.00	CDLL

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1229.00	0.330	224.270	1228.98	TIE-INTO GYRO SURVEYS
1500.03	0.330	224.270	1500.00	BEGIN NUDGE
1990.92	10.000	280.000	1988.36	END NUDGE
3774.66	10.000	280.000	3745.00	BEGIN DROP
4274.66	0.000	359.304	4242.47	END DROP
7144.24	0.000	359.304	7112.05	KOP, BUILD @ 10°/100'
8044.84	90.060	359.304	7685.00	LANDING POINT
12841.27	90.060	359.304	7680.00	TOTAL DEPTH