





# Actual Wellpath Report

GRENNEMYER 36N-3HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 GRENNEMYER 36N-3HZ (636'FNL & 2575'FEL, SEC.34)
Area	COLORADO	Well	GRENNEMYER 36N-3HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GRENNEMYER 36N-3HZ AWP
Facility	SEC.34-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	Wilsjef02
Scale	0.999965	Report Generated	2/19/2014 at 10:20:31
Convergence at slot	n/a	Database/Source file	WellArchitectDB/GRENNEMYER_36N-3HZ_AWP.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	0.00	0.00	3174668.24	1248232.99	40°00'47.160"N	104°52'35.047"W
Facility Reference Pt			3174668.24	1248232.99	40°00'47.160"N	104°52'35.047"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 24 (RKB 16') (RKB) to Facility Vertical Datum	5065.00ft
Horizontal Reference Pt	Slot	XTREME 24 (RKB 16') (RKB) to Mean Sea Level	5065.00ft
Vertical Reference Pt	XTREME 24 (RKB 16') (RKB)	XTREME 24 (RKB 16') (RKB) to Mud Line at Slot (SLOT#01 GRENNEMYER 36N-3HZ (636'FNL & 2575'FEL, SEC.34))	5065.00ft
MD Reference Pt	XTREME 24 (RKB 16') (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	178.70°



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## WELLPATH DATA (127 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	218.770	0.00	0.00	0.00	0.00	40°00'47.160"N	104°52'35.047"W	0.00	
16.00	0.000	218.770	16.00	0.00	0.00	0.00	40°00'47.160"N	104°52'35.047"W	0.00	TIE-ON
116.00	0.300	218.770	116.00	0.20	-0.20	-0.16	40°00'47.158"N	104°52'35.049"W	0.30	BEGIN GYRO SURVEYS
216.00	0.190	205.580	216.00	0.55	-0.56	-0.40	40°00'47.154"N	104°52'35.052"W	0.12	
316.00	0.130	196.040	316.00	0.80	-0.82	-0.50	40°00'47.152"N	104°52'35.053"W	0.07	
416.00	0.090	264.310	416.00	0.92	-0.93	-0.61	40°00'47.151"N	104°52'35.055"W	0.13	
516.00	0.260	1.330	516.00	0.70	-0.71	-0.68	40°00'47.153"N	104°52'35.056"W	0.29	
616.00	0.470	6.560	616.00	0.07	-0.08	-0.63	40°00'47.159"N	104°52'35.055"W	0.21	
716.00	0.570	19.830	715.99	-0.80	0.80	-0.42	40°00'47.168"N	104°52'35.052"W	0.16	
816.00	0.700	5.190	815.99	-1.88	1.87	-0.19	40°00'47.178"N	104°52'35.049"W	0.21	
916.00	0.200	261.180	915.98	-2.46	2.45	-0.31	40°00'47.184"N	104°52'35.051"W	0.77	
1016.00	0.200	258.430	1015.98	-2.41	2.39	-0.65	40°00'47.184"N	104°52'35.055"W	0.01	TIE-INTO GYROS
1183.00	0.520	269.970	1182.98	-2.37	2.33	-1.70	40°00'47.183"N	104°52'35.069"W	0.20	BEGIN BHI MWD+IFR SURVEYS
1465.00	2.580	287.190	1464.86	-4.41	4.21	-9.04	40°00'47.202"N	104°52'35.163"W	0.74	
1842.00	0.480	327.980	1841.71	-8.46	8.06	-17.99	40°00'47.240"N	104°52'35.278"W	0.59	
2121.00	0.800	322.440	2120.69	-11.04	10.59	-19.79	40°00'47.265"N	104°52'35.301"W	0.12	
2581.00	0.950	310.120	2580.64	-16.15	15.59	-24.67	40°00'47.314"N	104°52'35.364"W	0.05	
2673.00	0.400	127.820	2672.64	-16.45	15.89	-25.00	40°00'47.317"N	104°52'35.368"W	1.47	
3133.00	0.200	124.550	3132.63	-14.97	14.45	-23.07	40°00'47.303"N	104°52'35.343"W	0.04	
3592.00	0.360	277.980	3591.63	-14.73	14.19	-23.83	40°00'47.300"N	104°52'35.353"W	0.12	
4058.00	0.800	243.070	4057.60	-13.56	12.92	-28.18	40°00'47.288"N	104°52'35.409"W	0.12	
4152.00	0.990	111.870	4151.60	-12.96	12.32	-28.02	40°00'47.282"N	104°52'35.407"W	1.74	
4621.00	0.610	175.720	4620.56	-8.87	8.32	-24.07	40°00'47.242"N	104°52'35.356"W	0.19	
5046.00	0.650	192.310	5045.54	-4.27	3.71	-24.41	40°00'47.197"N	104°52'35.361"W	0.04	
5472.00	0.880	210.350	5471.50	0.87	-1.47	-26.58	40°00'47.145"N	104°52'35.389"W	0.08	
5899.00	1.270	278.690	5898.44	2.84	-3.59	-32.92	40°00'47.125"N	104°52'35.470"W	0.29	
6154.00	1.020	252.810	6153.39	2.97	-3.83	-37.88	40°00'47.122"N	104°52'35.534"W	0.22	
6240.00	0.990	255.130	6239.37	3.35	-4.25	-39.33	40°00'47.118"N	104°52'35.552"W	0.06	
6325.00	0.480	100.070	6324.37	3.60	-4.50	-39.69	40°00'47.116"N	104°52'35.557"W	1.69	
6410.00	0.440	70.150	6409.37	3.56	-4.45	-39.03	40°00'47.116"N	104°52'35.549"W	0.28	
6495.00	2.120	71.980	6494.34	3.01	-3.85	-37.23	40°00'47.122"N	104°52'35.525"W	1.98	
6580.00	2.790	65.240	6579.27	1.73	-2.50	-33.85	40°00'47.135"N	104°52'35.482"W	0.86	
6665.00	3.350	81.470	6664.15	0.59	-1.26	-29.52	40°00'47.148"N	104°52'35.426"W	1.21	
6750.00	5.680	92.270	6748.88	0.54	-1.06	-22.86	40°00'47.150"N	104°52'35.341"W	2.91	
6836.00	7.380	93.430	6834.32	1.26	-1.56	-13.09	40°00'47.145"N	104°52'35.215"W	1.98	
6921.00	7.220	95.020	6918.63	2.30	-2.35	-2.32	40°00'47.137"N	104°52'35.077"W	0.30	
6964.00	8.210	112.060	6961.24	3.82	-3.74	3.22	40°00'47.123"N	104°52'35.006"W	5.77	
7006.00	11.960	129.920	7002.60	7.88	-7.67	9.34	40°00'47.084"N	104°52'34.927"W	11.53	
7049.00	18.150	139.420	7044.11	16.00	-15.62	17.12	40°00'47.006"N	104°52'34.827"W	15.45	
7091.00	22.840	141.190	7083.44	27.54	-26.95	26.49	40°00'46.894"N	104°52'34.707"W	11.26	
7134.00	24.130	140.520	7122.87	41.07	-40.23	37.31	40°00'46.762"N	104°52'34.568"W	3.06	
7177.00	24.320	140.480	7162.09	54.94	-53.85	48.53	40°00'46.628"N	104°52'34.423"W	0.44	
7219.00	28.310	145.240	7199.73	70.05	-68.71	59.72	40°00'46.481"N	104°52'34.280"W	10.74	
7262.00	32.200	150.570	7236.87	88.67	-87.08	71.17	40°00'46.299"N	104°52'34.132"W	10.99	
7304.00	35.790	153.260	7271.69	109.63	-107.80	82.19	40°00'46.095"N	104°52'33.991"W	9.27	

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Area	COLORADO	Well	GRENNEMYER 36N-3HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GRENNEMYER 36N-3HZ AWB
Facility	SEC.34-T1N-R67W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7347.00	38.800	152.740	7305.90	133.11	-131.01	94.03	40°00'45.865"N	104°52'33.839"W	7.04	
7390.00	41.750	153.810	7338.70	158.21	-155.84	106.52	40°00'45.620"N	104°52'33.678"W	7.05	
7432.00	45.300	157.200	7369.15	184.80	-182.16	118.48	40°00'45.360"N	104°52'33.524"W	10.11	
7475.00	49.820	162.130	7398.17	214.79	-211.90	129.45	40°00'45.066"N	104°52'33.383"W	13.49	
7518.00	54.960	165.700	7424.41	247.71	-244.62	138.85	40°00'44.743"N	104°52'33.263"W	13.64	
7560.00	59.530	168.690	7447.13	282.31	-279.06	146.65	40°00'44.402"N	104°52'33.162"W	12.42	
7603.00	63.460	168.580	7467.65	319.51	-316.10	154.10	40°00'44.036"N	104°52'33.067"W	9.14	
7645.00	66.280	170.520	7485.49	357.05	-353.48	160.98	40°00'43.667"N	104°52'32.978"W	7.91	
7688.00	68.550	172.240	7502.00	396.42	-392.73	166.93	40°00'43.279"N	104°52'32.902"W	6.44	
7730.00	70.970	175.390	7516.53	435.68	-431.90	171.16	40°00'42.892"N	104°52'32.847"W	9.09	
7773.00	74.490	177.920	7529.30	476.70	-472.89	173.55	40°00'42.487"N	104°52'32.817"W	9.93	
7816.00	79.240	178.270	7539.07	518.56	-514.73	174.94	40°00'42.073"N	104°52'32.799"W	11.07	
7858.00	80.750	177.860	7546.36	559.92	-556.06	176.34	40°00'41.665"N	104°52'32.781"W	3.72	
7901.00	82.580	176.870	7552.60	602.45	-598.56	178.30	40°00'41.245"N	104°52'32.756"W	4.83	
7927.00	84.590	176.310	7555.50	628.27	-624.35	179.83	40°00'40.990"N	104°52'32.736"W	8.02	
7974.00†	87.059	176.723	7558.92	675.11	-671.14	182.68	40°00'40.528"N	104°52'32.699"W	5.33	7" CASING POINT
8041.00	90.580	177.310	7560.30	742.05	-738.02	186.17	40°00'39.867"N	104°52'32.654"W	5.33	
8194.00	93.110	177.610	7555.38	894.92	-890.78	192.94	40°00'38.357"N	104°52'32.567"W	1.67	
8286.00	94.160	177.860	7549.54	986.73	-982.52	196.57	40°00'37.450"N	104°52'32.521"W	1.17	
8378.00	94.130	178.580	7542.89	1078.48	-1074.23	199.42	40°00'36.544"N	104°52'32.484"W	0.78	
8470.00	93.260	178.850	7536.97	1170.29	-1166.02	201.48	40°00'35.637"N	104°52'32.458"W	0.99	
8562.00	90.120	179.190	7534.25	1262.24	-1257.95	203.05	40°00'34.729"N	104°52'32.437"W	3.43	
8654.00	90.730	180.000	7533.57	1354.22	-1349.95	203.70	40°00'33.819"N	104°52'32.429"W	1.10	
8746.00	88.610	180.030	7534.10	1446.19	-1441.94	203.68	40°00'32.910"N	104°52'32.429"W	2.30	
8838.00	88.760	179.840	7536.21	1538.14	-1533.92	203.78	40°00'32.001"N	104°52'32.428"W	0.26	
8930.00	87.530	180.740	7539.19	1630.06	-1625.86	203.32	40°00'31.093"N	104°52'32.434"W	1.66	
9022.00	88.180	180.390	7542.63	1721.94	-1717.79	202.41	40°00'30.184"N	104°52'32.446"W	0.80	
9114.00	88.950	180.630	7544.94	1813.87	-1809.76	201.59	40°00'29.275"N	104°52'32.456"W	0.88	
9206.00	88.430	180.950	7547.04	1905.78	-1901.73	200.32	40°00'28.367"N	104°52'32.473"W	0.66	
9298.00	87.080	178.620	7550.64	1997.69	-1993.65	200.67	40°00'27.458"N	104°52'32.468"W	2.93	
9390.00	87.470	179.250	7555.02	2089.58	-2085.53	202.38	40°00'26.550"N	104°52'32.446"W	0.80	
9482.00	87.630	179.170	7558.95	2181.49	-2177.43	203.64	40°00'25.642"N	104°52'32.430"W	0.19	
9574.00	88.110	178.800	7562.37	2273.43	-2269.36	205.27	40°00'24.734"N	104°52'32.409"W	0.66	
9758.00	88.980	178.800	7567.04	2457.37	-2453.25	209.12	40°00'22.916"N	104°52'32.360"W	0.47	
9943.00	89.660	178.350	7569.24	2642.35	-2638.18	213.72	40°00'21.089"N	104°52'32.300"W	0.44	
10036.00	90.550	178.550	7569.07	2735.35	-2731.15	216.24	40°00'20.170"N	104°52'32.268"W	0.98	
10223.00	92.700	178.570	7563.76	2922.26	-2918.00	220.94	40°00'18.323"N	104°52'32.208"W	1.15	
10317.00	92.180	178.670	7559.76	3016.18	-3011.89	223.20	40°00'17.396"N	104°52'32.179"W	0.56	
10412.00	92.180	179.890	7556.15	3111.10	-3106.81	224.39	40°00'16.458"N	104°52'32.163"W	1.28	
10505.00	90.240	180.500	7554.19	3204.05	-3199.79	224.08	40°00'15.539"N	104°52'32.168"W	2.19	
10598.00	90.120	180.920	7553.89	3296.99	-3292.78	222.92	40°00'14.620"N	104°52'32.182"W	0.47	
10692.00	89.160	181.120	7554.48	3390.91	-3386.76	221.25	40°00'13.691"N	104°52'32.204"W	1.04	
10786.00	91.010	181.470	7554.34	3484.81	-3480.73	219.13	40°00'12.762"N	104°52'32.231"W	2.00	
10873.00	89.160	181.030	7554.22	3571.72	-3567.71	217.23	40°00'11.903"N	104°52'32.256"W	2.19	
11043.00	89.230	179.970	7556.60	3741.61	-3737.68	215.74	40°00'10.223"N	104°52'32.275"W	0.62	



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11213.00	89.130	179.810	7559.04	3911.56	-3907.66	216.07	40°00'08.543"N	104°52'32.270"W	0.11	
11383.00	90.430	179.500	7559.69	4081.53	-4077.66	217.09	40°00'06.863"N	104°52'32.257"W	0.79	
11554.00	90.730	179.830	7557.96	4252.50	-4248.64	218.09	40°00'05.174"N	104°52'32.245"W	0.26	
11724.00	91.260	181.140	7555.01	4422.38	-4418.61	216.66	40°00'03.494"N	104°52'32.263"W	0.83	
11810.00	91.660	181.420	7552.81	4508.27	-4504.56	214.74	40°00'02.645"N	104°52'32.288"W	0.57	
11895.00	89.900	180.750	7551.66	4593.18	-4589.53	213.13	40°00'01.805"N	104°52'32.308"W	2.22	
11980.00	89.960	180.930	7551.76	4678.12	-4674.52	211.88	40°00'00.965"N	104°52'32.324"W	0.22	
12065.00	89.840	181.310	7551.91	4763.05	-4759.50	210.22	40°00'00.125"N	104°52'32.346"W	0.47	
12151.00	87.900	180.560	7553.61	4848.96	-4845.47	208.82	39°59'59.276"N	104°52'32.364"W	2.42	
12236.00	88.430	180.470	7556.33	4933.88	-4930.42	208.05	39°59'58.436"N	104°52'32.374"W	0.63	
12406.00	90.120	180.720	7558.48	5103.76	-5100.40	206.29	39°59'56.756"N	104°52'32.396"W	1.00	
12491.00	90.520	180.690	7558.00	5188.71	-5185.39	205.24	39°59'55.916"N	104°52'32.410"W	0.47	
12576.00	90.000	179.910	7557.62	5273.67	-5270.38	204.80	39°59'55.076"N	104°52'32.416"W	1.10	
12747.00	91.100	180.290	7555.98	5444.61	-5441.37	204.50	39°59'53.387"N	104°52'32.419"W	0.68	
12832.00	89.410	179.670	7555.60	5529.59	-5526.37	204.53	39°59'52.547"N	104°52'32.419"W	2.12	
13003.00	90.150	179.930	7556.26	5700.55	-5697.37	205.12	39°59'50.857"N	104°52'32.411"W	0.46	
13088.00	90.030	180.710	7556.12	5785.52	-5782.36	204.65	39°59'50.017"N	104°52'32.417"W	0.93	
13173.00	88.980	181.770	7556.86	5870.43	-5867.34	202.81	39°59'49.177"N	104°52'32.441"W	1.76	
13258.00	89.500	181.730	7557.98	5955.30	-5952.29	200.21	39°59'48.338"N	104°52'32.474"W	0.61	
13344.00	90.330	181.420	7558.11	6041.19	-6038.26	197.85	39°59'47.488"N	104°52'32.505"W	1.03	
13429.00	89.260	181.670	7558.42	6126.08	-6123.22	195.56	39°59'46.648"N	104°52'32.534"W	1.29	
13599.00	91.130	181.830	7557.84	6295.84	-6293.14	190.37	39°59'44.969"N	104°52'32.601"W	1.10	
13684.00	90.090	182.550	7556.93	6380.67	-6378.07	187.12	39°59'44.130"N	104°52'32.643"W	1.49	
13769.00	88.860	181.960	7557.71	6465.50	-6463.00	183.78	39°59'43.291"N	104°52'32.686"W	1.60	
13855.00	89.840	181.820	7558.69	6551.36	-6548.94	180.94	39°59'42.441"N	104°52'32.722"W	1.15	
13940.00	91.260	181.910	7557.87	6636.23	-6633.89	178.17	39°59'41.602"N	104°52'32.758"W	1.67	
14025.00	90.120	181.650	7556.85	6721.10	-6718.84	175.53	39°59'40.762"N	104°52'32.792"W	1.38	
14110.00	90.890	180.840	7556.10	6806.01	-6803.82	173.69	39°59'39.923"N	104°52'32.815"W	1.31	
14195.00	90.550	179.570	7555.03	6890.97	-6888.81	173.38	39°59'39.083"N	104°52'32.819"W	1.55	
14366.00	90.520	179.580	7553.43	7061.94	-7059.80	174.65	39°59'37.393"N	104°52'32.803"W	0.02	
14450.00	90.000	179.660	7553.05	7145.93	-7143.79	175.21	39°59'36.563"N	104°52'32.796"W	0.63	
14620.00	89.380	179.460	7553.97	7315.91	-7313.79	176.51	39°59'34.883"N	104°52'32.779"W	0.38	
14790.00	91.100	179.720	7553.26	7485.88	-7483.77	177.73	39°59'33.203"N	104°52'32.763"W	1.02	
14876.00	90.490	179.990	7552.07	7571.85	-7569.76	177.95	39°59'32.353"N	104°52'32.761"W	0.78	
14960.00	89.530	179.450	7552.05	7655.84	-7653.76	178.36	39°59'31.523"N	104°52'32.755"W	1.31	
15105.00	91.900	180.350	7550.24	7800.78	-7798.74	178.61	39°59'30.090"N	104°52'32.752"W	1.75	LAST BHI MWD+IFR SURVEYS
15163.00	91.900	180.350	7548.32	7858.73	-7856.71	178.26	39°59'29.518"N	104°52'32.757"W	0.00	PROJECTION TO BIT



# Actual Wellpath Report

GRENEMYER 36N-3HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 GRENEMYER 36N-3HZ (636'FNL & 2575'FEL, SEC.34)
Area	COLORADO	Well	GRENEMYER 36N-3HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GRENEMYER 36N-3HZ AWB
Facility	SEC.34-T1N-R67W		

## HOLE & CASING SECTIONS - Ref Wellbore: GRENEMYER 36N-3HZ AWB Ref Wellpath: GRENEMYER 36N-3HZ 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	1094.00	1078.00	16.00	1093.98	0.00	0.00	2.35	-1.02
9.625in Casing Surface	16.00	1094.00	1078.00	16.00	1093.98	0.00	0.00	2.35	-1.02
8.75in Open Hole	1094.00	7985.00	6891.00	1093.98	7559.43	2.35	-1.02	-682.11	183.30
7in Casing Intermediate	16.00	7974.00	7958.00	16.00	7558.92	0.00	0.00	-671.14	182.68
6.125in Open Hole	7974.00	15163.00	7189.00	7558.92	7548.32	-671.14	182.68	-7856.71	178.26

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
GRENEMEYER SECTION 34 LINES		16.00	0.00	-0.02	3174668.22	1248232.99	40°00'47.160"N	104°52'35.047"W	polygon
GRENEMEYER SECTION 03 LINES		5065.00	0.00	-0.02	3174668.22	1248232.99	40°00'47.160"N	104°52'35.047"W	polygon
GRENEMYER 36N-3HZ BHL ON PLAT REV-1 (1783'FSL & 2552'FWL, SEC.03)		7554.00	-7882.77	309.85	3175033.50	1240352.88	39°59'29.260"N	104°52'31.066"W	point
GRENEMYER 36N-3HZ BHL REV-2 (1783'FSL & 2452'FWL, SEC.03)		7554.00	-7882.77	209.85	3174933.51	1240352.18	39°59'29.260"N	104°52'32.351"W	point
GRENEMYER 36N-3HZ LAND BOX		7616.00	0.00	-0.02	3174668.22	1248232.99	40°00'47.160"N	104°52'35.047"W	polygon
GRENEMEYER MAX HEEL LINE		7800.00	0.00	-29.96	3174638.28	1248232.78	40°00'47.160"N	104°52'35.432"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: GRENEMYER 36N-3HZ AWB Ref Wellpath: GRENEMYER 36N-3HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
16.00	1016.00	Generic gyro - continuous (Standard)	MS ENERGY GYRODATA SURVEYS <116-1016>	GRENEMYER 36N-3HZ AWB
1016.00	7927.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 8 3/4" HOLE <1183-7927>	GRENEMYER 36N-3HZ AWB
7927.00	15105.00	NaviTrak (MAGCORR,IFR)	BHI MWD+IFR SURVEYS 6 1/8" HOLE <8041-15105>	GRENEMYER 36N-3HZ AWB
15105.00	15163.00	Blind Drilling (std)	Projection to bit	GRENEMYER 36N-3HZ AWB





# Actual Wellpath Report

GRENNEMYER 36N-3HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	KERR-MCGEE OIL & GAS ONSHORE LP	Slot	SLOT#01 GRENNEMYER 36N-3HZ (636'FNL & 2575'FEL, SEC.34)
Area	COLORADO	Well	GRENNEMYER 36N-3HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	GRENNEMYER 36N-3HZ AWP
Facility	SEC.34-T1N-R67W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
16.00	0.000	218.770	16.00	TIE-ON
116.00	0.300	218.770	116.00	BEGIN GYRO SURVEYS
1016.00	0.200	258.430	1015.98	TIE-INTO GYROS
1183.00	0.520	269.970	1182.98	BEGIN BHI MWD+IFR SURVEYS
7974.00	87.059	176.723	7558.92	7" CASING POINT
15105.00	91.900	180.350	7550.24	LAST BHI MWD+IFR SURVEYS
15163.00	91.900	180.350	7548.32	PROJECTION TO BIT