





# Actual Wellpath Report

PSC 13C-13HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13)
Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWB
Facility	SEC.13-T3N-R68W		

## REPORT SETUP INFORMATION

Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 3.0.1
North Reference	True	User	Cookdanm
Scale	0.999957	Report Generated	8/23/2011 at 4:03:58 PM
Convergence at slot	0.36° East	Database/Source file	WellArchitectDB/PSC_13C-13HZ_AWB.xml

## WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-43.27	-41.80	3155462.43	1323647.00	40°13'13.688"N	104°56'35.801"W
Facility Reference Pt			3155503.95	1323690.53	40°13'14.116"N	104°56'35.262"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 8 (RKB) to Facility Vertical Datum	4889.00ft
Horizontal Reference Pt	Slot	XTREME 8 (RKB) to Mean Sea Level	4889.00ft
Vertical Reference Pt	XTREME 8 (RKB)	XTREME 8 (RKB) to Mud Line at Slot (SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13))	4889.00ft
MD Reference Pt	XTREME 8 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	276.68°



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## WELLPATH DATA (227 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
1000.00	2.800	306.830	999.86	10.29	4.85	-9.79	40°13'13.736"N	104°56'35.927"W	0.00	TIED INTO MULTISHOT SURVEYS
1036.00†	2.915	312.991	1035.82	11.79	6.00	-11.16	40°13'13.748"N	104°56'35.945"W	0.91	9.625" SURFACE CASING
1058.00	3.000	316.500	1057.79	12.68	6.80	-11.97	40°13'13.756"N	104°56'35.955"W	0.91	
1148.00	2.000	308.300	1147.70	15.82	9.48	-14.82	40°13'13.782"N	104°56'35.992"W	1.18	
1241.00	0.700	117.600	1240.68	16.68	10.22	-15.59	40°13'13.789"N	104°56'36.002"W	2.89	
1332.00	0.500	102.200	1331.68	15.76	9.88	-14.71	40°13'13.786"N	104°56'35.990"W	0.28	
1425.00	0.600	114.200	1424.68	14.89	9.60	-13.87	40°13'13.783"N	104°56'35.980"W	0.16	
1514.00	0.200	148.700	1513.67	14.35	9.27	-13.37	40°13'13.780"N	104°56'35.973"W	0.51	
1604.00	0.400	124.900	1603.67	13.98	8.96	-13.03	40°13'13.777"N	104°56'35.969"W	0.26	
1691.00	0.100	231.400	1690.67	13.77	8.74	-12.84	40°13'13.775"N	104°56'35.966"W	0.50	
1779.00	0.500	219.000	1778.67	14.02	8.39	-13.14	40°13'13.771"N	104°56'35.970"W	0.46	
1867.00	0.800	228.100	1866.66	14.64	7.68	-13.84	40°13'13.764"N	104°56'35.979"W	0.36	
1955.00	0.900	306.700	1954.66	15.64	7.69	-14.85	40°13'13.764"N	104°56'35.992"W	1.23	
2043.00	0.700	223.300	2042.65	16.56	7.71	-15.77	40°13'13.765"N	104°56'36.004"W	1.22	
2131.00	1.400	176.000	2130.64	16.68	6.24	-16.06	40°13'13.750"N	104°56'36.008"W	1.20	
2219.00	0.800	148.200	2218.62	16.10	4.65	-15.67	40°13'13.734"N	104°56'36.003"W	0.89	
2308.00	0.800	113.700	2307.61	15.12	3.87	-14.77	40°13'13.727"N	104°56'35.991"W	0.53	
2395.00	0.500	105.300	2394.61	14.16	3.53	-13.85	40°13'13.723"N	104°56'35.979"W	0.36	
2481.00	0.300	92.000	2480.61	13.57	3.42	-13.26	40°13'13.722"N	104°56'35.972"W	0.25	
2570.00	0.200	89.500	2569.60	13.18	3.41	-12.87	40°13'13.722"N	104°56'35.967"W	0.11	
2659.00	0.100	25.500	2658.60	13.00	3.49	-12.68	40°13'13.723"N	104°56'35.964"W	0.20	
2748.00	0.400	325.600	2747.60	13.18	3.81	-12.83	40°13'13.726"N	104°56'35.966"W	0.40	
2837.00	0.700	62.700	2836.60	12.94	4.32	-12.52	40°13'13.731"N	104°56'35.962"W	0.95	
2924.00	0.700	38.000	2923.59	12.22	4.98	-11.72	40°13'13.738"N	104°56'35.952"W	0.34	
3012.00	0.800	41.700	3011.59	11.59	5.86	-10.98	40°13'13.746"N	104°56'35.942"W	0.13	
3101.00	0.000	177.500	3100.58	11.23	6.33	-10.57	40°13'13.751"N	104°56'35.937"W	0.90	
3188.00	0.500	299.200	3187.58	11.58	6.51	-10.90	40°13'13.753"N	104°56'35.941"W	0.57	
3276.00	0.000	105.300	3275.58	11.94	6.70	-11.23	40°13'13.755"N	104°56'35.946"W	0.57	
3366.00	0.300	232.800	3365.58	12.10	6.56	-11.42	40°13'13.753"N	104°56'35.948"W	0.33	
3451.00	0.700	149.100	3450.58	11.95	5.98	-11.33	40°13'13.747"N	104°56'35.947"W	0.86	
3538.00	0.900	178.000	3537.57	11.52	4.84	-11.03	40°13'13.736"N	104°56'35.943"W	0.51	
3626.00	0.900	175.400	3625.56	11.28	3.46	-10.95	40°13'13.723"N	104°56'35.942"W	0.05	
3713.00	1.100	197.100	3712.55	11.30	1.98	-11.15	40°13'13.708"N	104°56'35.944"W	0.49	
3802.00	0.300	160.400	3801.54	11.35	0.94	-11.32	40°13'13.698"N	104°56'35.947"W	0.99	
3890.00	0.200	238.200	3889.54	11.37	0.65	-11.37	40°13'13.695"N	104°56'35.947"W	0.37	
3978.00	0.400	285.300	3977.54	11.79	0.65	-11.80	40°13'13.695"N	104°56'35.953"W	0.34	
4066.00	1.000	27.700	4065.53	11.82	1.41	-11.74	40°13'13.702"N	104°56'35.952"W	1.31	
4152.00	1.100	23.800	4151.52	11.31	2.83	-11.06	40°13'13.716"N	104°56'35.943"W	0.14	
4242.00	1.900	33.700	4241.49	10.38	4.86	-9.88	40°13'13.736"N	104°56'35.928"W	0.93	
4328.00	2.500	25.100	4327.42	9.14	7.74	-8.29	40°13'13.765"N	104°56'35.908"W	0.79	
4417.00	2.800	18.600	4416.33	8.07	11.56	-6.78	40°13'13.803"N	104°56'35.888"W	0.48	
4505.00	3.400	14.400	4504.20	7.28	16.13	-5.44	40°13'13.848"N	104°56'35.871"W	0.73	
4548.00	4.100	15.300	4547.11	6.88	18.84	-4.72	40°13'13.875"N	104°56'35.862"W	1.63	
4591.00	4.700	18.200	4589.98	6.30	22.00	-3.76	40°13'13.906"N	104°56'35.849"W	1.49	
4635.00	5.500	19.700	4633.81	5.46	25.70	-2.49	40°13'13.942"N	104°56'35.833"W	1.84	



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Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWP
Facility	SEC.13-T3N-R68W		

## WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4679.00	6.600	16.500	4677.56	4.55	30.11	-1.06	40°13'13.986"N	104°56'35.814"W	2.61	
4723.00	7.100	15.500	4721.25	3.71	35.15	0.39	40°13'14.036"N	104°56'35.796"W	1.17	
4767.00	7.100	13.100	4764.91	2.98	40.42	1.73	40°13'14.088"N	104°56'35.779"W	0.67	
4812.00	6.900	13.200	4809.57	2.37	45.76	2.98	40°13'14.141"N	104°56'35.762"W	0.45	
4857.00	6.500	12.600	4854.27	1.80	50.88	4.15	40°13'14.191"N	104°56'35.747"W	0.90	
4901.00	6.300	20.700	4897.99	0.95	55.57	5.55	40°13'14.238"N	104°56'35.729"W	2.10	
4945.00	6.400	23.400	4941.72	-0.34	60.08	7.37	40°13'14.282"N	104°56'35.706"W	0.72	
4990.00	6.900	25.400	4986.42	-1.93	64.82	9.53	40°13'14.329"N	104°56'35.678"W	1.22	
5035.00	7.600	28.400	5031.06	-3.89	69.88	12.10	40°13'14.379"N	104°56'35.645"W	1.77	
5079.00	8.800	27.400	5074.61	-6.16	75.43	15.04	40°13'14.434"N	104°56'35.607"W	2.75	
5123.00	9.200	26.900	5118.07	-8.57	81.55	18.18	40°13'14.494"N	104°56'35.566"W	0.93	
5167.00	9.500	27.100	5161.48	-11.05	87.92	21.42	40°13'14.557"N	104°56'35.525"W	0.69	
5211.00	9.400	27.100	5204.89	-13.57	94.35	24.71	40°13'14.621"N	104°56'35.482"W	0.23	
5254.00	10.200	30.700	5247.26	-16.35	100.75	28.26	40°13'14.684"N	104°56'35.437"W	2.34	
5297.00	10.800	33.100	5289.54	-19.69	107.40	32.40	40°13'14.750"N	104°56'35.383"W	1.73	
5341.00	11.100	34.500	5332.74	-23.50	114.34	37.05	40°13'14.818"N	104°56'35.323"W	0.91	
5386.00	11.400	35.200	5376.87	-27.65	121.55	42.07	40°13'14.890"N	104°56'35.258"W	0.73	
5429.00	11.900	40.600	5418.99	-32.15	128.39	47.40	40°13'14.957"N	104°56'35.190"W	2.79	
5472.00	12.800	39.700	5460.99	-37.22	135.42	53.33	40°13'15.027"N	104°56'35.113"W	2.14	
5516.00	12.400	45.400	5503.93	-42.83	142.49	59.81	40°13'15.096"N	104°56'35.030"W	2.97	
5560.00	12.400	48.800	5546.91	-48.96	148.92	66.73	40°13'15.160"N	104°56'34.941"W	1.66	
5604.00	13.600	47.000	5589.78	-55.47	155.56	74.06	40°13'15.226"N	104°56'34.846"W	2.88	
5648.00	12.900	44.300	5632.61	-61.82	162.60	81.28	40°13'15.295"N	104°56'34.753"W	2.12	
5737.00	13.900	38.900	5719.19	-73.58	178.03	94.93	40°13'15.448"N	104°56'34.577"W	1.80	
5824.00	13.700	37.200	5803.68	-84.39	194.37	107.72	40°13'15.609"N	104°56'34.412"W	0.52	
5912.00	12.500	25.500	5889.40	-92.75	211.27	118.12	40°13'15.776"N	104°56'34.278"W	3.30	
6002.00	10.600	34.500	5977.58	-99.76	226.88	127.01	40°13'15.930"N	104°56'34.164"W	2.90	
6092.00	12.400	32.200	6065.77	-107.79	241.88	136.85	40°13'16.079"N	104°56'34.037"W	2.06	
6181.00	13.600	24.300	6152.50	-115.08	259.51	146.25	40°13'16.253"N	104°56'33.916"W	2.41	
6269.00	13.300	29.000	6238.08	-122.05	277.79	155.41	40°13'16.434"N	104°56'33.797"W	1.29	
6356.00	15.500	27.500	6322.35	-129.99	296.86	165.63	40°13'16.622"N	104°56'33.666"W	2.56	
6443.00	15.000	24.400	6406.28	-137.55	317.42	175.65	40°13'16.825"N	104°56'33.536"W	1.10	
6495.00	14.900	26.500	6456.52	-141.86	329.53	181.41	40°13'16.945"N	104°56'33.462"W	1.06	
6500.00	15.210	26.330	6461.35	-142.30	330.70	181.99	40°13'16.956"N	104°56'33.455"W	6.26	
6530.00	15.880	24.410	6490.26	-144.87	337.96	185.43	40°13'17.028"N	104°56'33.410"W	2.82	
6560.00	15.560	19.970	6519.13	-147.05	345.48	188.50	40°13'17.102"N	104°56'33.371"W	4.15	
6590.00	16.440	8.340	6547.98	-148.10	353.47	190.49	40°13'17.181"N	104°56'33.345"W	11.06	
6620.00	17.970	4.130	6576.64	-148.01	362.28	191.44	40°13'17.268"N	104°56'33.333"W	6.57	
6650.00	21.710	1.760	6604.85	-147.33	372.45	191.95	40°13'17.369"N	104°56'33.326"W	12.75	
6680.00	22.630	353.980	6632.64	-145.59	383.74	191.51	40°13'17.480"N	104°56'33.332"W	10.25	
6710.00	23.010	354.090	6660.29	-143.04	395.31	190.30	40°13'17.595"N	104°56'33.348"W	1.27	
6740.00	26.920	344.870	6687.49	-139.24	407.71	187.92	40°13'17.717"N	104°56'33.378"W	18.35	
6770.00	27.430	339.360	6714.19	-133.54	420.73	183.72	40°13'17.846"N	104°56'33.432"W	8.56	
6800.00	28.340	339.990	6740.70	-127.17	433.89	178.84	40°13'17.976"N	104°56'33.495"W	3.19	
6830.00	30.270	334.480	6766.87	-119.94	447.41	173.15	40°13'18.110"N	104°56'33.569"W	11.05	



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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
6860.00	32.650	327.260	6792.46	-110.77	461.04	165.51	40°13'18.244"N	104°56'33.667"W	14.84	
6890.00	32.980	327.330	6817.68	-100.46	474.72	156.73	40°13'18.380"N	104°56'33.780"W	1.11	
6920.00	34.060	323.370	6842.69	-89.52	488.34	147.30	40°13'18.514"N	104°56'33.902"W	8.13	
6950.00	35.450	317.470	6867.35	-77.16	501.50	136.41	40°13'18.644"N	104°56'34.042"W	12.13	
6980.00	35.810	316.130	6891.73	-63.80	514.24	124.44	40°13'18.770"N	104°56'34.197"W	2.87	
7010.00	38.480	309.970	6915.65	-49.21	526.57	111.20	40°13'18.892"N	104°56'34.367"W	15.25	
7040.00	39.460	308.720	6938.97	-33.33	538.53	96.61	40°13'19.010"N	104°56'34.555"W	4.19	
7070.00	39.210	307.850	6962.18	-17.13	550.31	81.68	40°13'19.127"N	104°56'34.748"W	2.02	
7100.00	39.820	305.330	6985.32	-0.59	561.68	66.36	40°13'19.239"N	104°56'34.945"W	5.72	
7130.00	41.040	302.250	7008.16	16.73	572.49	50.19	40°13'19.346"N	104°56'35.154"W	7.80	
7160.00	41.620	299.770	7030.69	34.78	582.70	33.21	40°13'19.447"N	104°56'35.373"W	5.79	
7190.00	45.090	296.590	7052.50	53.94	592.40	15.06	40°13'19.542"N	104°56'35.607"W	13.66	
7220.00	45.040	295.620	7073.69	73.96	601.75	-4.01	40°13'19.635"N	104°56'35.853"W	2.29	
7250.00	46.850	292.170	7094.55	94.55	610.47	-23.72	40°13'19.721"N	104°56'36.107"W	10.23	
7280.00	46.710	290.760	7115.10	115.69	618.47	-44.07	40°13'19.800"N	104°56'36.369"W	3.46	
7310.00	49.890	285.330	7135.06	137.64	625.38	-65.36	40°13'19.868"N	104°56'36.643"W	17.17	
7340.00	51.990	281.640	7153.97	160.76	630.80	-88.00	40°13'19.922"N	104°56'36.935"W	11.84	
7370.00	52.680	278.540	7172.30	184.46	634.95	-111.38	40°13'19.963"N	104°56'37.237"W	8.50	
7400.00	56.740	273.180	7189.64	208.93	637.42	-135.72	40°13'19.987"N	104°56'37.550"W	19.89	
7430.00	59.300	272.300	7205.53	234.31	638.63	-161.14	40°13'19.999"N	104°56'37.878"W	8.89	
7460.00	60.580	271.540	7220.55	260.18	639.50	-187.09	40°13'20.008"N	104°56'38.213"W	4.80	
7490.00	64.090	269.930	7234.48	286.61	639.84	-213.65	40°13'20.011"N	104°56'38.555"W	12.63	
7520.00	69.390	268.240	7246.32	313.91	639.39	-241.20	40°13'20.007"N	104°56'38.910"W	18.41	
7550.00	70.530	268.240	7256.60	341.79	638.52	-269.37	40°13'19.998"N	104°56'39.273"W	3.80	
7580.00	78.520	268.130	7264.60	370.36	637.61	-298.24	40°13'19.989"N	104°56'39.646"W	26.64	
7610.00	80.090	266.920	7270.17	399.47	636.34	-327.69	40°13'19.977"N	104°56'40.025"W	6.56	
7640.00	81.820	266.080	7274.89	428.62	634.53	-357.26	40°13'19.959"N	104°56'40.406"W	6.40	
7670.00	85.190	266.390	7278.28	457.93	632.57	-387.00	40°13'19.939"N	104°56'40.790"W	11.28	
7700.00	87.420	266.170	7280.21	487.38	630.63	-416.87	40°13'19.920"N	104°56'41.175"W	7.47	
7730.00	88.210	266.440	7281.36	516.87	628.70	-446.79	40°13'19.901"N	104°56'41.561"W	2.78	
7733.00†	88.504	266.437	7281.44	519.82	628.51	-449.78	40°13'19.899"N	104°56'41.599"W	9.80	7" INTERMEDIATE CASING
7760.00	91.150	266.410	7281.52	546.38	626.82	-476.73	40°13'19.883"N	104°56'41.947"W	9.80	
7790.00	91.870	266.650	7280.73	575.90	625.01	-506.66	40°13'19.865"N	104°56'42.332"W	2.53	
7820.00	92.590	266.180	7279.57	605.40	623.14	-536.58	40°13'19.846"N	104°56'42.718"W	2.87	
7850.00	92.630	265.950	7278.20	634.86	621.08	-566.48	40°13'19.826"N	104°56'43.104"W	0.78	
7880.00	92.530	265.890	7276.85	664.30	618.95	-596.37	40°13'19.805"N	104°56'43.489"W	0.39	
7910.00	93.140	266.380	7275.37	693.76	616.93	-626.26	40°13'19.785"N	104°56'43.874"W	2.61	
7940.00	93.850	265.310	7273.54	723.17	614.76	-656.13	40°13'19.763"N	104°56'44.259"W	4.27	
7970.00	93.710	265.190	7271.56	752.51	612.28	-685.96	40°13'19.739"N	104°56'44.644"W	0.61	
8000.00	94.110	264.800	7269.51	781.82	609.67	-715.78	40°13'19.713"N	104°56'45.028"W	1.86	
8030.00	93.910	265.110	7267.42	811.12	607.04	-745.59	40°13'19.687"N	104°56'45.413"W	1.23	
8060.00	93.910	265.290	7265.37	840.45	604.53	-775.41	40°13'19.662"N	104°56'45.797"W	0.60	
8090.00	93.850	266.080	7263.34	869.83	602.28	-805.26	40°13'19.640"N	104°56'46.182"W	2.63	
8120.00	93.850	265.720	7261.33	899.24	600.14	-835.11	40°13'19.619"N	104°56'46.567"W	1.20	
8150.00	93.620	265.820	7259.37	928.63	597.93	-864.97	40°13'19.597"N	104°56'46.952"W	0.84	



# Actual Wellpath Report

PSC 13C-13HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13)
Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWP
Facility	SEC.13-T3N-R68W		

## WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8180.00	93.920	266.160	7257.40	958.05	595.84	-894.83	40°13'19.576"N	104°56'47.337"W	1.51	
8210.00	93.460	266.910	7255.47	987.52	594.03	-924.71	40°13'19.558"N	104°56'47.722"W	2.93	
8240.00	93.170	266.580	7253.73	1017.02	592.33	-954.62	40°13'19.542"N	104°56'48.107"W	1.46	
8270.00	93.590	266.320	7251.96	1046.49	590.47	-984.51	40°13'19.523"N	104°56'48.493"W	1.65	
8300.00	93.390	266.300	7250.14	1075.95	588.55	-1014.39	40°13'19.504"N	104°56'48.878"W	0.67	
8330.00	93.330	266.150	7248.38	1105.40	586.57	-1044.27	40°13'19.485"N	104°56'49.263"W	0.54	
8360.00	93.260	266.880	7246.66	1134.88	584.75	-1074.17	40°13'19.467"N	104°56'49.648"W	2.44	
8390.00	93.200	267.610	7244.96	1164.43	583.31	-1104.08	40°13'19.452"N	104°56'50.034"W	2.44	
8420.00	93.140	266.830	7243.31	1193.97	581.86	-1134.00	40°13'19.438"N	104°56'50.420"W	2.60	
8450.00	93.530	266.250	7241.56	1223.45	580.05	-1163.90	40°13'19.420"N	104°56'50.805"W	2.33	
8480.00	92.940	266.860	7239.87	1252.94	578.25	-1193.79	40°13'19.402"N	104°56'51.191"W	2.83	
8510.00	92.390	267.000	7238.47	1282.47	576.65	-1223.72	40°13'19.387"N	104°56'51.576"W	1.89	
8540.00	91.530	267.450	7237.45	1312.05	575.20	-1253.67	40°13'19.372"N	104°56'51.962"W	3.23	
8570.00	91.830	267.250	7236.57	1341.64	573.81	-1283.62	40°13'19.358"N	104°56'52.349"W	1.20	
8600.00	91.890	267.330	7235.59	1371.22	572.39	-1313.57	40°13'19.344"N	104°56'52.735"W	0.33	
8630.00	92.000	267.310	7234.58	1400.81	570.99	-1343.52	40°13'19.331"N	104°56'53.121"W	0.37	
8660.00	91.140	267.720	7233.75	1430.41	569.69	-1373.48	40°13'19.318"N	104°56'53.507"W	3.18	
8690.00	90.780	267.770	7233.25	1460.04	568.51	-1403.45	40°13'19.306"N	104°56'53.893"W	1.21	
8720.00	90.920	267.850	7232.81	1489.68	567.36	-1433.43	40°13'19.295"N	104°56'54.280"W	0.54	
8750.00	91.180	268.080	7232.26	1519.33	566.30	-1463.40	40°13'19.284"N	104°56'54.666"W	1.16	
8780.00	90.760	268.190	7231.75	1548.99	565.32	-1493.38	40°13'19.274"N	104°56'55.053"W	1.45	
8810.00	89.540	268.120	7231.67	1578.66	564.36	-1523.37	40°13'19.265"N	104°56'55.439"W	4.07	
8840.00	88.920	268.320	7232.07	1608.33	563.43	-1553.35	40°13'19.256"N	104°56'55.826"W	2.17	
8870.00	88.530	268.030	7232.74	1638.00	562.47	-1583.33	40°13'19.246"N	104°56'56.212"W	1.62	
8900.00	88.660	268.280	7233.48	1667.66	561.51	-1613.30	40°13'19.237"N	104°56'56.599"W	0.94	
8930.00	89.090	268.730	7234.06	1697.34	560.72	-1643.29	40°13'19.229"N	104°56'56.985"W	2.07	
8960.00	88.530	268.170	7234.69	1727.03	559.91	-1673.27	40°13'19.221"N	104°56'57.372"W	2.64	
8990.00	88.140	267.730	7235.56	1756.67	558.84	-1703.24	40°13'19.210"N	104°56'57.758"W	1.96	
9020.00	88.040	267.140	7236.56	1786.26	557.50	-1733.19	40°13'19.197"N	104°56'58.144"W	1.99	
9050.00	88.010	266.910	7237.59	1815.82	555.94	-1763.13	40°13'19.182"N	104°56'58.530"W	0.77	
9080.00	88.840	266.850	7238.42	1845.37	554.31	-1793.08	40°13'19.165"N	104°56'58.916"W	2.77	
9110.00	89.460	266.840	7238.86	1874.93	552.66	-1823.03	40°13'19.149"N	104°56'59.302"W	2.07	
9140.00	90.090	267.210	7238.98	1904.50	551.10	-1852.99	40°13'19.134"N	104°56'59.689"W	2.44	
9170.00	90.160	267.570	7238.92	1934.11	549.73	-1882.96	40°13'19.120"N	104°57'00.075"W	1.22	
9200.00	90.550	267.440	7238.73	1963.72	548.43	-1912.93	40°13'19.107"N	104°57'00.461"W	1.37	
9230.00	90.650	267.380	7238.42	1993.33	547.07	-1942.89	40°13'19.094"N	104°57'00.848"W	0.39	
9260.00	90.360	267.430	7238.15	2022.94	545.71	-1972.86	40°13'19.080"N	104°57'01.234"W	0.98	
9290.00	90.750	267.590	7237.86	2052.55	544.41	-2002.83	40°13'19.067"N	104°57'01.620"W	1.41	
9320.00	90.960	268.100	7237.41	2082.19	543.28	-2032.81	40°13'19.056"N	104°57'02.007"W	1.84	
9350.00	90.590	268.130	7237.01	2111.86	542.30	-2062.79	40°13'19.046"N	104°57'02.393"W	1.24	
9380.00	91.190	268.200	7236.54	2141.52	541.34	-2092.77	40°13'19.037"N	104°57'02.780"W	2.01	
9410.00	91.090	268.140	7235.94	2171.19	540.38	-2122.75	40°13'19.027"N	104°57'03.166"W	0.39	
9440.00	90.540	268.140	7235.52	2200.85	539.40	-2152.73	40°13'19.018"N	104°57'03.553"W	1.83	
9470.00	89.750	268.800	7235.44	2230.54	538.60	-2182.72	40°13'19.010"N	104°57'03.939"W	3.43	
9500.00	89.980	268.980	7235.51	2260.27	538.02	-2212.71	40°13'19.004"N	104°57'04.326"W	0.97	





# Actual Wellpath Report

PSC 13C-13HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13)
Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWP
Facility	SEC.13-T3N-R68W		

## WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9530.00	89.850	269.060	7235.56	2290.00	537.51	-2242.71	40°13'18.999"N	104°57'04.713"W	0.51	
9560.00	90.440	269.030	7235.48	2319.73	537.01	-2272.70	40°13'18.994"N	104°57'05.099"W	1.97	
9590.00	89.490	269.620	7235.50	2349.49	536.66	-2302.70	40°13'18.991"N	104°57'05.486"W	3.73	
9620.00	89.490	269.780	7235.77	2379.26	536.50	-2332.70	40°13'18.989"N	104°57'05.873"W	0.53	
9650.00	90.160	270.010	7235.86	2409.05	536.44	-2362.70	40°13'18.988"N	104°57'06.259"W	2.36	
9680.00	90.390	270.120	7235.71	2438.85	536.48	-2392.70	40°13'18.989"N	104°57'06.646"W	0.85	
9710.00	89.990	270.080	7235.61	2468.65	536.53	-2422.70	40°13'18.989"N	104°57'07.033"W	1.34	
9740.00	89.630	270.040	7235.71	2498.45	536.56	-2452.70	40°13'18.989"N	104°57'07.420"W	1.21	
9770.00	89.470	270.140	7235.95	2528.26	536.61	-2482.70	40°13'18.990"N	104°57'07.806"W	0.63	
9800.00	89.340	270.370	7236.26	2558.07	536.74	-2512.70	40°13'18.991"N	104°57'08.193"W	0.88	
9830.00	89.680	270.030	7236.52	2587.87	536.85	-2542.69	40°13'18.992"N	104°57'08.580"W	1.60	
9860.00	90.140	269.580	7236.56	2617.66	536.75	-2572.69	40°13'18.991"N	104°57'08.967"W	2.15	
9890.00	89.780	269.380	7236.59	2647.42	536.47	-2602.69	40°13'18.988"N	104°57'09.353"W	1.37	
9920.00	89.780	269.110	7236.70	2677.17	536.08	-2632.69	40°13'18.985"N	104°57'09.740"W	0.90	
9950.00	90.150	269.280	7236.72	2706.91	535.66	-2662.69	40°13'18.980"N	104°57'10.127"W	1.36	
9980.00	90.450	269.390	7236.56	2736.67	535.31	-2692.68	40°13'18.977"N	104°57'10.513"W	1.07	
10010.00	90.880	269.410	7236.21	2766.42	534.99	-2722.68	40°13'18.974"N	104°57'10.900"W	1.43	
10040.00	90.880	269.380	7235.75	2796.18	534.68	-2752.68	40°13'18.971"N	104°57'11.287"W	0.10	
10070.00	90.650	269.420	7235.35	2825.93	534.36	-2782.67	40°13'18.967"N	104°57'11.674"W	0.78	
10100.00	90.530	269.360	7235.04	2855.69	534.04	-2812.67	40°13'18.964"N	104°57'12.060"W	0.45	
10130.00	90.960	269.410	7234.65	2885.44	533.72	-2842.66	40°13'18.961"N	104°57'12.447"W	1.44	
10160.00	90.360	269.280	7234.31	2915.20	533.38	-2872.66	40°13'18.958"N	104°57'12.834"W	2.05	
10190.00	90.790	269.200	7234.01	2944.94	532.98	-2902.65	40°13'18.954"N	104°57'13.220"W	1.46	
10220.00	89.780	269.190	7233.86	2974.69	532.56	-2932.65	40°13'18.949"N	104°57'13.607"W	3.37	
10250.00	88.760	268.800	7234.24	3004.41	532.03	-2962.64	40°13'18.944"N	104°57'13.994"W	3.64	
10280.00	87.920	268.700	7235.11	3034.11	531.38	-2992.62	40°13'18.938"N	104°57'14.380"W	2.82	
10310.00	88.100	269.600	7236.15	3063.84	530.93	-3022.60	40°13'18.933"N	104°57'14.767"W	3.06	
10340.00	88.170	269.330	7237.13	3093.58	530.65	-3052.58	40°13'18.930"N	104°57'15.153"W	0.93	
10370.00	88.500	269.680	7238.00	3123.34	530.40	-3082.57	40°13'18.928"N	104°57'15.540"W	1.60	
10400.00	88.210	269.080	7238.86	3153.08	530.07	-3112.56	40°13'18.925"N	104°57'15.926"W	2.22	
10408.00	88.610	269.200	7239.08	3161.01	529.95	-3120.55	40°13'18.923"N	104°57'16.029"W	5.22	
10507.00	89.700	270.200	7240.54	3259.26	529.43	-3219.54	40°13'18.918"N	104°57'17.305"W	1.49	
10594.00	89.500	270.800	7241.15	3345.75	530.19	-3306.53	40°13'18.926"N	104°57'18.427"W	0.73	
10683.00	90.400	269.700	7241.23	3434.19	530.58	-3395.53	40°13'18.929"N	104°57'19.574"W	1.60	
10772.00	91.100	269.600	7240.06	3522.52	530.04	-3484.52	40°13'18.924"N	104°57'20.721"W	0.79	
10860.00	90.500	270.200	7238.83	3609.89	529.88	-3572.51	40°13'18.922"N	104°57'21.856"W	0.96	
10950.00	88.700	270.600	7239.46	3699.35	530.51	-3662.50	40°13'18.928"N	104°57'23.016"W	2.05	
11038.00	88.600	270.200	7241.53	3786.79	531.13	-3750.47	40°13'18.934"N	104°57'24.150"W	0.47	
11127.00	88.900	269.800	7243.48	3875.17	531.13	-3839.45	40°13'18.934"N	104°57'25.297"W	0.56	
11215.00	90.600	269.300	7243.86	3962.48	530.43	-3927.45	40°13'18.927"N	104°57'26.431"W	2.01	
11303.00	90.500	270.400	7243.02	4049.85	530.20	-4015.44	40°13'18.925"N	104°57'27.566"W	1.26	
11391.00	90.400	270.000	7242.32	4137.29	530.51	-4103.44	40°13'18.928"N	104°57'28.700"W	0.47	
11479.00	88.800	269.600	7242.94	4224.65	530.20	-4191.43	40°13'18.924"N	104°57'29.834"W	1.87	
11567.00	89.300	269.300	7244.40	4311.94	529.36	-4279.41	40°13'18.916"N	104°57'30.969"W	0.66	
11655.00	90.000	269.000	7244.94	4399.18	528.05	-4367.40	40°13'18.903"N	104°57'32.103"W	0.87	



# Actual Wellpath Report

PSC 13C-13HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13)
Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWB
Facility	SEC.13-T3N-R68W		

## WELLPATH DATA (227 stations)

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11669.00	90.100	268.900	7244.92	4413.05	527.80	-4381.40	40°13'18.900"N	104°57'32.283"W	1.01	LAST BHI MWD SURVEY
11730.00	90.100	268.900	7244.82	4473.49	526.63	-4442.39	40°13'18.889"N	104°57'33.070"W	0.00	PROJECTION TO BIT

## HOLE & CASING SECTIONS - Ref Wellbore: PSC 13C-13HZ AWB Ref Wellpath: PSC 13C-13HZ 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]
9.625in Casing Surface	17.00	1036.00	1019.00	17.00	1035.82	4.85	-9.79	6.00	-11.16
8.75in Open Hole	1036.00	7733.00	6697.00	1035.82	7281.44	6.00	-11.16	628.51	-449.78
7in Casing Intermediate	17.00	7733.00	7716.00	17.00	7281.44	4.85	-9.79	628.51	-449.78
6.125in Open Hole	7733.00	11730.00	3997.00	7281.44	7244.82	628.51	-449.78	526.63	-4442.39

## TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
PSC PAD SEC. 13 SECTION LINES		1.00	43.35	41.89	3155504.04	1323690.61	40°13'14.117"N	104°56'35.261"W	polygon
PSC 13C-13HZ BHL ON PLAT (1000'FSL & 460'FWL, REV-1)		7246.00	440.86	-4448.25	3151011.70	1324059.91	40°13'18.041"N	104°57'33.145"W	point
PSC 13C-13HZ REVISED BHL (1080'FSL & 460'FWL, REV-1)		7246.00	520.80	-4448.10	3151011.35	1324139.84	40°13'18.831"N	104°57'33.143"W	point
PSC PAD SEC. 13 HARDLINE (460' SETBACK)		7248.00	43.35	41.89	3155504.04	1323690.61	40°13'14.117"N	104°56'35.261"W	polygon

## WELLPATH COMPOSITION - Ref Wellbore: PSC 13C-13HZ AWB Ref Wellpath: PSC 13C-13HZ AWP

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
1000.00	11669.00	NaviTrak (Standard)	BHI SURVEYS <29-11669>	PSC 13C-13HZ AWB
11669.00	11730.00	Blind Drilling (std)	Projection to bit	PSC 13C-13HZ AWB





# Actual Wellpath Report

PSC 13C-13HZ AWP

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## REFERENCE WELLPATH IDENTIFICATION

Operator	ANADARKO E&P COMPANY LP	Slot	SLOT#03 PSC 13C-13HZ (503'FSL & 425'FEL, SEC.13)
Area	COLORADO	Well	PSC 13C-13HZ
Field	WELD COUNTY (KERR MCGEE)	Wellbore	PSC 13C-13HZ AWB
Facility	SEC.13-T3N-R68W		

## WELLPATH COMMENTS

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
1000.00	2.800	306.830	999.86	TIED INTO MULTISHOT SURVEYS
1036.00	2.915	312.991	1035.82	9.625" SURFACE CASING
7733.00	88.504	266.437	7281.44	7" INTERMEDIATE CASING
11669.00	90.100	268.900	7244.92	LAST BHI MWD SURVEY
11730.00	90.100	268.900	7244.82	PROJECTION TO BIT