



Planned Wellpath Report

ANTELOPE A11-U41-33HNB (REV-A.0) PWP

Page 1 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE A11-U41-33HNB (1471'FNL & 370'FWL,SEC.33)
Area	COLORADO	Well	ANTELOPE A11-U41-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 4.0.0
North Reference	True	User	Guenaler
Scale	0.999959	Report Generated	1/8/2014 at 3:13:26 PM
Convergence at slot	n/a	Database/Source file	WA_Denver/ANTELOPE_A11-U41-33HNB_PWB.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	-22.30	3324109.00	1375891.90	40°21'33.804"N	104°20'12.984"W
Facility Reference Pt			3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W
Field Reference Pt			3327718.19	1377782.99	40°21'52.020"N	104°19'26.040"W

WELLPATH DATUM			
Calculation method	Minimum curvature	RIG (RKB) to Facility Vertical Datum	4596.00ft
Horizontal Reference Pt	Slot	RIG (RKB) to Mean Sea Level	4596.00ft
Vertical Reference Pt	RIG (RKB)	RIG (RKB) to Mud Line at Slot (SLOT#02 ANTELOPE A11-U41-33HNB (1471'FNL & 370'FWL,SEC.33))	4596.00ft
MD Reference Pt	RIG (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	75.30°



Planned Wellpath Report

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Page 2 of 7



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Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (120 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	342.500	0.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
17.00	0.000	342.500	17.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	Tie On
117.00†	0.000	342.500	117.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
217.00†	0.000	342.500	217.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
317.00†	0.000	342.500	317.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
417.00†	0.000	342.500	417.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
517.00†	0.000	342.500	517.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
617.00†	0.000	342.500	617.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
717.00†	0.000	342.500	717.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
817.00†	0.000	342.500	817.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
917.00†	0.000	342.500	917.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	
1000.00	0.000	342.500	1000.00	0.00	0.00	0.00	40°21'33.804"N	104°20'12.984"W	0.00	End of Tangent
1017.00†	0.255	342.500	1017.00	0.00	0.04	-0.01	40°21'33.804"N	104°20'12.984"W	1.50	
1117.00†	1.755	342.500	1116.98	-0.09	1.71	-0.54	40°21'33.821"N	104°20'12.991"W	1.50	
1217.00†	3.255	342.500	1216.88	-0.30	5.88	-1.85	40°21'33.862"N	104°20'13.008"W	1.50	
1317.00†	4.755	342.500	1316.64	-0.64	12.54	-3.95	40°21'33.928"N	104°20'13.035"W	1.50	
1417.00†	6.255	342.500	1416.17	-1.11	21.69	-6.84	40°21'34.018"N	104°20'13.072"W	1.50	
1517.00†	7.755	342.500	1515.42	-1.71	33.32	-10.51	40°21'34.133"N	104°20'13.120"W	1.50	
1617.00†	9.255	342.500	1614.32	-2.43	47.42	-14.95	40°21'34.273"N	104°20'13.177"W	1.50	
1717.00†	10.755	342.500	1712.80	-3.28	63.99	-20.18	40°21'34.436"N	104°20'13.245"W	1.50	
1817.00†	12.255	342.500	1810.78	-4.25	83.01	-26.17	40°21'34.624"N	104°20'13.322"W	1.50	
1917.00†	13.755	342.500	1908.22	-5.35	104.47	-32.94	40°21'34.836"N	104°20'13.410"W	1.50	
2017.00†	15.255	342.500	2005.03	-6.57	128.36	-40.47	40°21'35.072"N	104°20'13.507"W	1.50	
2117.00†	16.755	342.500	2101.15	-7.92	154.66	-48.76	40°21'35.332"N	104°20'13.614"W	1.50	
2217.00†	18.255	342.500	2196.51	-9.38	183.34	-57.81	40°21'35.616"N	104°20'13.731"W	1.50	
2317.00†	19.755	342.500	2291.06	-10.97	214.40	-67.60	40°21'35.923"N	104°20'13.857"W	1.50	
2417.00†	21.255	342.500	2384.72	-12.68	247.81	-78.13	40°21'36.253"N	104°20'13.993"W	1.50	
2466.67	22.000	342.500	2430.89	-13.58	265.26	-83.64	40°21'36.425"N	104°20'14.064"W	1.50	End of Build
2517.00†	22.000	342.500	2477.56	-14.50	283.25	-89.31	40°21'36.603"N	104°20'14.138"W	0.00	
2617.00†	22.000	342.500	2570.28	-16.33	318.97	-100.57	40°21'36.956"N	104°20'14.283"W	0.00	



Planned Wellpath Report

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Page 3 of 7



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Area	COLORADO	Well	ANTELOPE A11-U41-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (120 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2717.00†	22.000	342.500	2663.00	-18.16	354.70	-111.84	40°21'37.309"N	104°20'14.429"W	0.00	
2817.00†	22.000	342.500	2755.72	-19.99	390.43	-123.10	40°21'37.662"N	104°20'14.574"W	0.00	
2917.00†	22.000	342.500	2848.43	-21.81	426.15	-134.37	40°21'38.015"N	104°20'14.720"W	0.00	
3017.00†	22.000	342.500	2941.15	-23.64	461.88	-145.63	40°21'38.368"N	104°20'14.865"W	0.00	
3117.00†	22.000	342.500	3033.87	-25.47	497.61	-156.90	40°21'38.721"N	104°20'15.011"W	0.00	
3217.00†	22.000	342.500	3126.59	-27.30	533.33	-168.16	40°21'39.074"N	104°20'15.156"W	0.00	
3317.00†	22.000	342.500	3219.31	-29.13	569.06	-179.42	40°21'39.427"N	104°20'15.302"W	0.00	
3417.00†	22.000	342.500	3312.03	-30.96	604.79	-190.69	40°21'39.780"N	104°20'15.447"W	0.00	
3517.00†	22.000	342.500	3404.74	-32.79	640.52	-201.95	40°21'40.133"N	104°20'15.593"W	0.00	
3617.00†	22.000	342.500	3497.46	-34.62	676.24	-213.22	40°21'40.486"N	104°20'15.738"W	0.00	
3717.00†	22.000	342.500	3590.18	-36.44	711.97	-224.48	40°21'40.839"N	104°20'15.884"W	0.00	
3817.00†	22.000	342.500	3682.90	-38.27	747.70	-235.75	40°21'41.192"N	104°20'16.029"W	0.00	
3917.00†	22.000	342.500	3775.62	-40.10	783.42	-247.01	40°21'41.546"N	104°20'16.175"W	0.00	
4017.00†	22.000	342.500	3868.34	-41.93	819.15	-258.28	40°21'41.899"N	104°20'16.320"W	0.00	
4117.00†	22.000	342.500	3961.05	-43.76	854.88	-269.54	40°21'42.252"N	104°20'16.466"W	0.00	
4175.39	22.000	342.500	4015.19	-44.83	875.74	-276.12	40°21'42.458"N	104°20'16.551"W	0.00	End of Tangent
4217.00†	21.376	342.500	4053.86	-45.58	890.40	-280.74	40°21'42.603"N	104°20'16.611"W	1.50	
4317.00†	19.876	342.500	4147.44	-47.30	924.00	-291.34	40°21'42.935"N	104°20'16.747"W	1.50	
4417.00†	18.376	342.500	4241.92	-48.90	955.24	-301.19	40°21'43.243"N	104°20'16.875"W	1.50	
4517.00†	16.876	342.500	4337.22	-50.38	984.12	-310.29	40°21'43.529"N	104°20'16.992"W	1.50	
4617.00†	15.376	342.500	4433.29	-51.73	1010.61	-318.64	40°21'43.791"N	104°20'17.100"W	1.50	
4717.00†	13.876	342.500	4530.04	-52.96	1034.69	-326.24	40°21'44.028"N	104°20'17.198"W	1.50	
4817.00†	12.376	342.500	4627.43	-54.07	1056.35	-333.07	40°21'44.243"N	104°20'17.287"W	1.50	
4917.00†	10.876	342.500	4725.37	-55.06	1075.57	-339.13	40°21'44.432"N	104°20'17.365"W	1.50	
5017.00†	9.376	342.500	4823.81	-55.91	1092.33	-344.41	40°21'44.598"N	104°20'17.433"W	1.50	
5117.00†	7.876	342.500	4922.68	-56.65	1106.64	-348.92	40°21'44.739"N	104°20'17.491"W	1.50	
5217.00†	6.376	342.500	5021.90	-57.25	1118.47	-352.65	40°21'44.856"N	104°20'17.540"W	1.50	
5317.00†	4.876	342.500	5121.42	-57.73	1127.82	-355.60	40°21'44.949"N	104°20'17.578"W	1.50	
5417.00†	3.376	342.500	5221.16	-58.08	1134.68	-357.76	40°21'45.017"N	104°20'17.606"W	1.50	
5517.00†	1.876	342.500	5321.05	-58.31	1139.05	-359.14	40°21'45.060"N	104°20'17.623"W	1.50	



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Page 4 of 7



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Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

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MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5617.00†	0.376	342.500	5421.03	-58.40	1140.92	-359.73	40°21'45.078"N	104°20'17.631"W	1.50	
5642.05	0.000	89.916	5446.08	-58.41	1141.00	-359.76	40°21'45.079"N	104°20'17.631"W	1.50	End of Drop
5717.00†	0.000	89.916	5521.03	-58.41	1141.00	-359.76	40°21'45.079"N	104°20'17.631"W	0.00	
5817.00†	0.000	89.916	5621.03	-58.41	1141.00	-359.76	40°21'45.079"N	104°20'17.631"W	0.00	
5897.15	0.000	89.916	5701.18	-58.41	1141.00	-359.76	40°21'45.079"N	104°20'17.631"W	0.00	End of Tangent
5917.00†	2.183	89.916	5721.02	-58.04	1141.00	-359.38	40°21'45.079"N	104°20'17.627"W	11.00	
6017.00†	13.183	89.916	5819.97	-45.12	1141.02	-346.03	40°21'45.079"N	104°20'17.454"W	11.00	
6117.00†	24.183	89.916	5914.56	-14.17	1141.07	-314.04	40°21'45.080"N	104°20'17.041"W	11.00	
6217.00†	35.183	89.916	6001.30	33.67	1141.14	-264.60	40°21'45.080"N	104°20'16.402"W	11.00	
6317.00†	46.183	89.916	6077.02	96.65	1141.23	-199.51	40°21'45.081"N	104°20'15.561"W	11.00	
6417.00†	57.183	89.916	6138.92	172.45	1141.35	-121.17	40°21'45.082"N	104°20'14.549"W	11.00	
6517.00†	68.183	89.916	6184.74	258.30	1141.48	-32.46	40°21'45.084"N	104°20'13.403"W	11.00	
6533.52	70.000	89.916	6190.64	273.22	1141.50	-17.03	40°21'45.084"N	104°20'13.204"W	11.00	End of Build
6603.52	70.000	89.916	6214.58	336.87	1141.60	48.74	40°21'45.085"N	104°20'12.354"W	0.00	End of Tangent
6617.00†	71.483	89.916	6219.03	349.19	1141.62	61.47	40°21'45.085"N	104°20'12.190"W	11.00	
6717.00†	82.483	89.916	6241.52	443.32	1141.76	158.75	40°21'45.087"N	104°20'10.933"W	11.00	
6785.33	90.000	89.916	6245.99	509.25	1141.86	226.89	40°21'45.088"N	104°20'10.053"W	11.00	End of 3D Arc
6817.00†	90.000	89.916	6245.99	539.90	1141.91	258.56	40°21'45.088"N	104°20'09.644"W	0.00	
6917.00†	90.000	89.916	6245.99	636.66	1142.05	358.56	40°21'45.089"N	104°20'08.352"W	0.00	
7017.00†	90.000	89.916	6245.99	733.42	1142.20	458.56	40°21'45.091"N	104°20'07.060"W	0.00	
7117.00†	90.000	89.916	6245.99	830.19	1142.35	558.56	40°21'45.092"N	104°20'05.768"W	0.00	
7217.00†	90.000	89.916	6245.99	926.95	1142.50	658.56	40°21'45.094"N	104°20'04.477"W	0.00	
7317.00†	90.000	89.916	6245.99	1023.71	1142.64	758.56	40°21'45.095"N	104°20'03.185"W	0.00	
7417.00†	90.000	89.916	6245.99	1120.48	1142.79	858.56	40°21'45.097"N	104°20'01.893"W	0.00	
7517.00†	90.000	89.916	6245.99	1217.24	1142.94	958.56	40°21'45.098"N	104°20'00.601"W	0.00	
7617.00†	90.000	89.916	6245.99	1314.00	1143.08	1058.56	40°21'45.099"N	104°19'59.309"W	0.00	
7717.00†	90.000	89.916	6245.99	1410.76	1143.23	1158.56	40°21'45.101"N	104°19'58.018"W	0.00	
7817.00†	90.000	89.916	6245.99	1507.53	1143.38	1258.56	40°21'45.102"N	104°19'56.726"W	0.00	
7917.00†	90.000	89.916	6245.99	1604.29	1143.53	1358.56	40°21'45.104"N	104°19'55.434"W	0.00	
8017.00†	90.000	89.916	6245.99	1701.05	1143.67	1458.56	40°21'45.105"N	104°19'54.142"W	0.00	



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ANTELOPE A11-U41-33HNB (REV-A.0) PWP

Page 5 of 7



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8117.00†	90.000	89.916	6245.99	1797.82	1143.82	1558.56	40°21'45.106"N	104°19'52.850"W	0.00	
8217.00†	90.000	89.916	6245.99	1894.58	1143.97	1658.56	40°21'45.108"N	104°19'51.558"W	0.00	
8317.00†	90.000	89.916	6246.00	1991.34	1144.11	1758.56	40°21'45.109"N	104°19'50.267"W	0.00	
8417.00†	90.000	89.916	6246.00	2088.11	1144.26	1858.56	40°21'45.111"N	104°19'48.975"W	0.00	
8517.00†	90.000	89.916	6246.00	2184.87	1144.41	1958.56	40°21'45.112"N	104°19'47.683"W	0.00	
8617.00†	90.000	89.916	6246.00	2281.63	1144.55	2058.56	40°21'45.113"N	104°19'46.391"W	0.00	
8717.00†	90.000	89.916	6246.00	2378.40	1144.70	2158.56	40°21'45.115"N	104°19'45.099"W	0.00	
8817.00†	90.000	89.916	6246.00	2475.16	1144.85	2258.56	40°21'45.116"N	104°19'43.807"W	0.00	
8917.00†	90.000	89.916	6246.00	2571.92	1145.00	2358.56	40°21'45.117"N	104°19'42.516"W	0.00	
9017.00†	90.000	89.916	6246.00	2668.69	1145.14	2458.56	40°21'45.119"N	104°19'41.224"W	0.00	
9117.00†	90.000	89.916	6246.00	2765.45	1145.29	2558.56	40°21'45.120"N	104°19'39.932"W	0.00	
9217.00†	90.000	89.916	6246.00	2862.21	1145.44	2658.56	40°21'45.121"N	104°19'38.640"W	0.00	
9317.00†	90.000	89.916	6246.00	2958.98	1145.58	2758.56	40°21'45.123"N	104°19'37.348"W	0.00	
9417.00†	90.000	89.916	6246.00	3055.74	1145.73	2858.56	40°21'45.124"N	104°19'36.057"W	0.00	
9517.00†	90.000	89.916	6246.00	3152.50	1145.88	2958.56	40°21'45.125"N	104°19'34.765"W	0.00	
9617.00†	90.000	89.916	6246.00	3249.27	1146.03	3058.56	40°21'45.127"N	104°19'33.473"W	0.00	
9717.00†	90.000	89.916	6246.00	3346.03	1146.17	3158.56	40°21'45.128"N	104°19'32.181"W	0.00	
9817.00†	90.000	89.916	6246.00	3442.79	1146.32	3258.56	40°21'45.129"N	104°19'30.889"W	0.00	
9917.00†	90.000	89.916	6246.00	3539.56	1146.47	3358.56	40°21'45.131"N	104°19'29.597"W	0.00	
10017.00†	90.000	89.916	6246.00	3636.32	1146.61	3458.56	40°21'45.132"N	104°19'28.306"W	0.00	
10117.00†	90.000	89.916	6246.00	3733.08	1146.76	3558.56	40°21'45.133"N	104°19'27.014"W	0.00	
10217.00†	90.000	89.916	6246.00	3829.84	1146.91	3658.55	40°21'45.135"N	104°19'25.722"W	0.00	
10317.00†	90.000	89.916	6246.00	3926.61	1147.06	3758.55	40°21'45.136"N	104°19'24.430"W	0.00	
10417.00†	90.000	89.916	6246.00	4023.37	1147.20	3858.55	40°21'45.137"N	104°19'23.138"W	0.00	
10517.00†	90.000	89.916	6246.00	4120.13	1147.35	3958.55	40°21'45.139"N	104°19'21.847"W	0.00	
10617.00†	90.000	89.916	6246.00	4216.90	1147.50	4058.55	40°21'45.140"N	104°19'20.555"W	0.00	
10717.00†	90.000	89.916	6246.00	4313.66	1147.64	4158.55	40°21'45.141"N	104°19'19.263"W	0.00	
10817.00†	90.000	89.916	6246.00	4410.42	1147.79	4258.55	40°21'45.143"N	104°19'17.971"W	0.00	
10917.00†	90.000	89.916	6246.00	4507.19	1147.94	4358.55	40°21'45.144"N	104°19'16.679"W	0.00	
10933.66	90.000	89.916	6246.00 ¹	4523.31	1147.96	4375.22	40°21'45.144"N	104°19'16.464"W	0.00	End of Tangent



Planned Wellpath Report

ANTELOPE A11-U41-33HNB (REV-A.0) PWP

Page 6 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE A11-U41-33HNB (1471'FNL & 370'FWL,SEC.33)
Area	COLORADO	Well	ANTELOPE A11-U41-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

HOLE & CASING SECTIONS - Ref Wellbore: ANTELOPE A11-U41-33HNB PWB Ref Wellpath: ANTELOPE A11-U41-33HNB (REV-A.0) PWP									
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]
7in Casing Intermediate	17.00	6785.33	6768.33	17.00	6245.99	0.00	0.00	1141.86	226.89
6.125in Open Hole	6785.33	10933.66	4148.33	6245.99	6246.00	1141.86	226.89	1147.96	4375.21
4.5in Casing Production	17.00	10933.00	10916.00	17.00	6246.00	0.00	0.00	1147.96	4374.55

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
ANTELOPE 11-41-33HNB SECTION 33		0.00	0.00	22.30	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
ANTELOPE 11-41-33HNB HARDLINE (460' SETBACK FEL/FWL)		6246.00	0.00	22.30	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
1) ANTELOPE A11-U41-33HNB BHL REV-1 (327'FNL & 470'FEL,SEC.33)	10933.66	6246.00	1147.96	4375.22	3328468.60	1377097.09	40°21'45.144"N	104°19'16.464"W	point

SURVEY PROGRAM - Ref Wellbore: ANTELOPE A11-U41-33HNB PWB Ref Wellpath: ANTELOPE A11-U41-33HNB (REV-A.0) PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	10933.66	NaviTrak (Standard)		ANTELOPE A11-U41-33HNB PWB



Planned Wellpath Report
ANTELOPE A11-U41-33HNB (REV-A.0) PWP
Page 7 of 7



REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#02 ANTELOPE A11-U41-33HNB (1471'FNL & 370'FWL,SEC.33)
Area	COLORADO	Well	ANTELOPE A11-U41-33HNB
Field	WELD COUNTY	Wellbore	ANTELOPE A11-U41-33HNB PWB
Facility	SEC.33-T5N-R62W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	342.500	17.00	Tie On
1000.00	0.000	342.500	1000.00	End of Tangent
2466.67	22.000	342.500	2430.89	End of Build
4175.39	22.000	342.500	4015.19	End of Tangent
5642.05	0.000	89.916	5446.08	End of Drop
5897.15	0.000	89.916	5701.18	End of Tangent
6533.52	70.000	89.916	6190.64	End of Build
6603.52	70.000	89.916	6214.58	End of Tangent
6785.33	90.000	89.916	6245.99	End of 3D Arc
10933.66	90.000	89.916	6246.00	End of Tangent