



# Planned Wellpath Report

## ANTELOPE C13-W43-33HNC REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#08 ANTELOPE C13-W43-33HNC (2581'FSL & 374'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

REPORT SETUP INFORMATION			
Projection System	NAD83 / Lambert Colorado SP, Northern Zone (501), US feet	Software System	WellArchitect® 5.1
North Reference	True	User	Bushjamh
Scale	0.999959	Report Generated	9/26/2018 at 1:46:26 PM
Convergence at slot	0.75° East	Database/Source file	WellArchitectDB/ANTELOPE C13-W43-33HNC REV-A.0 PWP PR.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-1226.99	-21.74	3324125.65	1374665.07	40°21'21.679"N	104°20'12.977"W
Facility Reference Pt			3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W
Field Reference Pt			3224525.77	1254425.87	40°01'44.400"N	104°41'53.556"W

WELLPATH DATUM			
Calculation method	Minimum curvature	RIG (17'RKB) (RKB) to Facility Vertical Datum	4595.00ft
Horizontal Reference Pt	Slot	RIG (17'RKB) (RKB) to Mean Sea Level	4595.00ft
Vertical Reference Pt	RIG (17'RKB) (RKB)	RIG (17'RKB) (RKB) to Ground Level at Slot (SLOT#08 ANTELOPE C13-W43-33HNC (2581'FSL & 374'FWL SEC.33))	4595.00ft
MD Reference Pt	RIG (17'RKB) (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	91.52°

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Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (116 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	259.489	0.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
17.00	0.000	259.489	17.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	Tie On
117.00†	0.000	259.489	117.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
217.00†	0.000	259.489	217.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
317.00†	0.000	259.489	317.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
417.00†	0.000	259.489	417.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
517.00†	0.000	259.489	517.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
617.00†	0.000	259.489	617.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
717.00†	0.000	259.489	717.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
817.00†	0.000	259.489	817.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
917.00†	0.000	259.489	917.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1017.00†	0.000	259.489	1017.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1117.00†	0.000	259.489	1117.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1217.00†	0.000	259.489	1217.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1317.00†	0.000	259.489	1317.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1417.00†	0.000	259.489	1417.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1517.00†	0.000	259.489	1517.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	
1550.00	0.000	259.489	1550.00	0.00	0.00	0.00	40°21'21.679"N	104°20'12.977"W	0.00	End of Tangent
1617.00†	1.340	259.489	1616.99	-0.77	-0.14	-0.77	40°21'21.678"N	104°20'12.987"W	2.00	
1717.00†	3.340	259.489	1716.91	-4.76	-0.89	-4.78	40°21'21.670"N	104°20'13.039"W	2.00	
1817.00†	5.340	259.489	1816.61	-12.16	-2.27	-12.22	40°21'21.657"N	104°20'13.135"W	2.00	
1895.28	6.906	259.489	1894.44	-20.33	-3.79	-20.43	40°21'21.642"N	104°20'13.241"W	2.00	End of Build
1917.00†	6.906	259.489	1916.01	-22.88	-4.27	-23.00	40°21'21.637"N	104°20'13.274"W	0.00	
2017.00†	6.906	259.489	2015.28	-34.64	-6.46	-34.82	40°21'21.615"N	104°20'13.427"W	0.00	
2117.00†	6.906	259.489	2114.56	-46.40	-8.65	-46.64	40°21'21.594"N	104°20'13.579"W	0.00	
2217.00†	6.906	259.489	2213.83	-58.16	-10.85	-58.47	40°21'21.572"N	104°20'13.732"W	0.00	
2317.00†	6.906	259.489	2313.11	-69.92	-13.04	-70.29	40°21'21.550"N	104°20'13.885"W	0.00	
2417.00†	6.906	259.489	2412.38	-81.67	-15.23	-82.11	40°21'21.529"N	104°20'14.037"W	0.00	
2517.00†	6.906	259.489	2511.65	-93.43	-17.43	-93.93	40°21'21.507"N	104°20'14.190"W	0.00	
2617.00†	6.906	259.489	2610.93	-105.19	-19.62	-105.75	40°21'21.485"N	104°20'14.343"W	0.00	

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Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (116 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
2717.00†	6.906	259.489	2710.20	-116.95	-21.81	-117.57	40°21'21.464"N	104°20'14.495"W	0.00	
2817.00†	6.906	259.489	2809.48	-128.71	-24.01	-129.40	40°21'21.442"N	104°20'14.648"W	0.00	
2917.00†	6.906	259.489	2908.75	-140.47	-26.20	-141.22	40°21'21.420"N	104°20'14.801"W	0.00	
3017.00†	6.906	259.489	3008.03	-152.23	-28.39	-153.04	40°21'21.399"N	104°20'14.954"W	0.00	
3117.00†	6.906	259.489	3107.30	-163.99	-30.59	-164.86	40°21'21.377"N	104°20'15.106"W	0.00	
3217.00†	6.906	259.489	3206.58	-175.75	-32.78	-176.68	40°21'21.355"N	104°20'15.259"W	0.00	
3317.00†	6.906	259.489	3305.85	-187.51	-34.97	-188.50	40°21'21.334"N	104°20'15.412"W	0.00	
3417.00†	6.906	259.489	3405.13	-199.27	-37.17	-200.32	40°21'21.312"N	104°20'15.564"W	0.00	
3517.00†	6.906	259.489	3504.40	-211.02	-39.36	-212.15	40°21'21.290"N	104°20'15.717"W	0.00	
3617.00†	6.906	259.489	3603.67	-222.78	-41.55	-223.97	40°21'21.269"N	104°20'15.870"W	0.00	
3717.00†	6.906	259.489	3702.95	-234.54	-43.75	-235.79	40°21'21.247"N	104°20'16.022"W	0.00	
3817.00†	6.906	259.489	3802.22	-246.30	-45.94	-247.61	40°21'21.225"N	104°20'16.175"W	0.00	
3917.00†	6.906	259.489	3901.50	-258.06	-48.13	-259.43	40°21'21.204"N	104°20'16.328"W	0.00	
4017.00†	6.906	259.489	4000.77	-269.82	-50.33	-271.25	40°21'21.182"N	104°20'16.481"W	0.00	
4117.00†	6.906	259.489	4100.05	-281.58	-52.52	-283.08	40°21'21.160"N	104°20'16.633"W	0.00	
4217.00†	6.906	259.489	4199.32	-293.34	-54.71	-294.90	40°21'21.139"N	104°20'16.786"W	0.00	
4317.00†	6.906	259.489	4298.60	-305.10	-56.91	-306.72	40°21'21.117"N	104°20'16.939"W	0.00	
4417.00†	6.906	259.489	4397.87	-316.86	-59.10	-318.54	40°21'21.095"N	104°20'17.091"W	0.00	
4517.00†	6.906	259.489	4497.15	-328.61	-61.29	-330.36	40°21'21.073"N	104°20'17.244"W	0.00	
4617.00†	6.906	259.489	4596.42	-340.37	-63.49	-342.18	40°21'21.052"N	104°20'17.397"W	0.00	
4717.00†	6.906	259.489	4695.69	-352.13	-65.68	-354.01	40°21'21.030"N	104°20'17.549"W	0.00	
4817.00†	6.906	259.489	4794.97	-363.89	-67.87	-365.83	40°21'21.008"N	104°20'17.702"W	0.00	
4917.00†	6.906	259.489	4894.24	-375.65	-70.07	-377.65	40°21'20.987"N	104°20'17.855"W	0.00	
5017.00†	6.906	259.489	4993.52	-387.41	-72.26	-389.47	40°21'20.965"N	104°20'18.008"W	0.00	
5117.00†	6.906	259.489	5092.79	-399.17	-74.45	-401.29	40°21'20.943"N	104°20'18.160"W	0.00	
5217.00†	6.906	259.489	5192.07	-410.93	-76.65	-413.11	40°21'20.922"N	104°20'18.313"W	0.00	
5317.00†	6.906	259.489	5291.34	-422.69	-78.84	-424.93	40°21'20.900"N	104°20'18.466"W	0.00	
5417.00†	6.906	259.489	5390.62	-434.45	-81.03	-436.76	40°21'20.878"N	104°20'18.618"W	0.00	
5517.00†	6.906	259.489	5489.89	-446.20	-83.23	-448.58	40°21'20.857"N	104°20'18.771"W	0.00	
5617.00†	6.906	259.489	5589.17	-457.96	-85.42	-460.40	40°21'20.835"N	104°20'18.924"W	0.00	

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Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (116 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
5713.04	6.906	259.489	5684.51	-469.26	-87.53	-471.75	40°21'20.814"N	104°20'19.070"W	0.00	End of Tangent
5717.00†	6.517	258.838	5688.44	-469.71	-87.61	-472.21	40°21'20.813"N	104°20'19.076"W	10.00	
5817.00†	3.833	109.757	5788.26	-472.08	-89.85	-474.64	40°21'20.791"N	104°20'19.108"W	10.00	
5917.00†	13.670	95.471	5886.98	-457.08	-92.11	-459.69	40°21'20.769"N	104°20'18.915"W	10.00	
6017.00†	23.644	93.114	5981.61	-425.16	-94.33	-427.82	40°21'20.747"N	104°20'18.503"W	10.00	
6117.00†	33.632	92.108	6069.27	-377.30	-96.45	-380.00	40°21'20.726"N	104°20'17.885"W	10.00	
6217.00†	43.626	91.524	6147.29	-314.96	-98.39	-317.69	40°21'20.707"N	104°20'17.080"W	10.00	
6317.00†	53.621	91.122	6213.30	-240.01	-100.10	-242.76	40°21'20.690"N	104°20'16.113"W	10.00	
6417.00†	63.618	90.812	6265.31	-154.75	-101.52	-157.51	40°21'20.676"N	104°20'15.011"W	10.00	
6517.00†	73.615	90.552	6301.72	-61.77	-102.62	-64.52	40°21'20.665"N	104°20'13.810"W	10.00	
6617.00†	83.612	90.318	6321.44	36.12	-103.36	33.39	40°21'20.658"N	104°20'12.546"W	10.00	
6680.89	90.000	90.174	6325.00†	99.87	-103.64	97.15	40°21'20.655"N	104°20'11.722"W	10.00	End of 3D Arc
6717.00†	90.000	90.174	6325.00	135.97	-103.75	133.25	40°21'20.654"N	104°20'11.256"W	0.00	
6817.00†	90.000	90.174	6325.00	235.94	-104.05	233.25	40°21'20.651"N	104°20'09.964"W	0.00	
6917.00†	90.000	90.174	6325.00	335.91	-104.35	333.25	40°21'20.648"N	104°20'08.672"W	0.00	
7017.00†	90.000	90.174	6325.00	435.88	-104.66	433.25	40°21'20.645"N	104°20'07.381"W	0.00	
7117.00†	90.000	90.174	6325.00	535.85	-104.96	533.25	40°21'20.642"N	104°20'06.089"W	0.00	
7217.00†	90.000	90.174	6325.00	635.83	-105.26	633.25	40°21'20.639"N	104°20'04.797"W	0.00	
7317.00†	90.000	90.174	6325.00	735.80	-105.57	733.25	40°21'20.636"N	104°20'03.505"W	0.00	
7417.00†	90.000	90.174	6325.00	835.77	-105.87	833.25	40°21'20.633"N	104°20'02.214"W	0.00	
7517.00†	90.000	90.174	6325.00	935.74	-106.17	933.25	40°21'20.630"N	104°20'00.922"W	0.00	
7617.00†	90.000	90.174	6325.00	1035.72	-106.48	1033.25	40°21'20.627"N	104°19'59.630"W	0.00	
7717.00†	90.000	90.174	6325.00	1135.69	-106.78	1133.25	40°21'20.624"N	104°19'58.339"W	0.00	
7817.00†	90.000	90.174	6325.00	1235.66	-107.08	1233.25	40°21'20.621"N	104°19'57.047"W	0.00	
7917.00†	90.000	90.174	6325.00	1335.63	-107.39	1333.25	40°21'20.618"N	104°19'55.755"W	0.00	
8017.00†	90.000	90.174	6325.00	1435.60	-107.69	1433.25	40°21'20.615"N	104°19'54.464"W	0.00	
8117.00†	90.000	90.174	6325.00	1535.58	-108.00	1533.25	40°21'20.612"N	104°19'53.172"W	0.00	
8217.00†	90.000	90.174	6325.00	1635.55	-108.30	1633.25	40°21'20.608"N	104°19'51.880"W	0.00	
8317.00†	90.000	90.174	6325.00	1735.52	-108.60	1733.24	40°21'20.605"N	104°19'50.589"W	0.00	
8417.00†	90.000	90.174	6325.00	1835.49	-108.91	1833.24	40°21'20.602"N	104°19'49.297"W	0.00	

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Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

WELLPATH DATA (116 stations) † = interpolated/extrapolated station										
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8517.00†	90.000	90.174	6325.00	1935.47	-109.21	1933.24	40°21'20.599"N	104°19'48.005"W	0.00	
8617.00†	90.000	90.174	6325.00	2035.44	-109.51	2033.24	40°21'20.596"N	104°19'46.714"W	0.00	
8717.00†	90.000	90.174	6325.00	2135.41	-109.82	2133.24	40°21'20.593"N	104°19'45.422"W	0.00	
8817.00†	90.000	90.174	6325.00	2235.38	-110.12	2233.24	40°21'20.590"N	104°19'44.130"W	0.00	
8917.00†	90.000	90.174	6325.00	2335.35	-110.42	2333.24	40°21'20.587"N	104°19'42.839"W	0.00	
9017.00†	90.000	90.174	6325.00	2435.33	-110.73	2433.24	40°21'20.584"N	104°19'41.547"W	0.00	
9117.00†	90.000	90.174	6325.00	2535.30	-111.03	2533.24	40°21'20.581"N	104°19'40.255"W	0.00	
9217.00†	90.000	90.174	6325.00	2635.27	-111.33	2633.24	40°21'20.578"N	104°19'38.963"W	0.00	
9317.00†	90.000	90.174	6325.00	2735.24	-111.64	2733.24	40°21'20.575"N	104°19'37.672"W	0.00	
9417.00†	90.000	90.174	6325.00	2835.22	-111.94	2833.24	40°21'20.571"N	104°19'36.380"W	0.00	
9517.00†	90.000	90.174	6325.00	2935.19	-112.24	2933.24	40°21'20.568"N	104°19'35.088"W	0.00	
9617.00†	90.000	90.174	6325.00	3035.16	-112.55	3033.24	40°21'20.565"N	104°19'33.797"W	0.00	
9717.00†	90.000	90.174	6325.00	3135.13	-112.85	3133.24	40°21'20.562"N	104°19'32.505"W	0.00	
9817.00†	90.000	90.174	6325.00	3235.10	-113.16	3233.24	40°21'20.559"N	104°19'31.213"W	0.00	
9917.00†	90.000	90.174	6325.00	3335.08	-113.46	3333.24	40°21'20.556"N	104°19'29.922"W	0.00	
10017.00†	90.000	90.174	6325.00	3435.05	-113.76	3433.24	40°21'20.553"N	104°19'28.630"W	0.00	
10117.00†	90.000	90.174	6325.00	3535.02	-114.07	3533.24	40°21'20.550"N	104°19'27.338"W	0.00	
10217.00†	90.000	90.174	6325.00	3634.99	-114.37	3633.24	40°21'20.546"N	104°19'26.047"W	0.00	
10317.00†	90.000	90.174	6325.00	3734.97	-114.67	3733.24	40°21'20.543"N	104°19'24.755"W	0.00	
10417.00†	90.000	90.174	6325.00	3834.94	-114.98	3833.24	40°21'20.540"N	104°19'23.463"W	0.00	
10517.00†	90.000	90.174	6325.00	3934.91	-115.28	3933.23	40°21'20.537"N	104°19'22.172"W	0.00	
10617.00†	90.000	90.174	6325.00	4034.88	-115.58	4033.23	40°21'20.534"N	104°19'20.880"W	0.00	
10717.00†	90.000	90.174	6325.00	4134.85	-115.89	4133.23	40°21'20.531"N	104°19'19.588"W	0.00	
10817.00†	90.000	90.174	6325.00	4234.83	-116.19	4233.23	40°21'20.527"N	104°19'18.297"W	0.00	
10917.00†	90.000	90.174	6325.00	4334.80	-116.49	4333.23	40°21'20.524"N	104°19'17.005"W	0.00	
10965.91	90.000	90.174	6325.00 <sup>2</sup>	4383.70	-116.64	4382.15	40°21'20.523"N	104°19'16.373"W	0.00	End of Tangent

# Planned Wellpath Report

## ANTELOPE C13-W43-33HNC REV-A.0 PWP

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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#08 ANTELOPE C13-W43-33HNC (2581'FSL & 374'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

HOLE & CASING SECTIONS - Ref Wellbore: ANTELOPE C13-W43-33HNC PWB    Ref Wellpath: ANTELOPE C13-W43-33HNC 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]
9.625in Casing Surface	17.00	1550.00	1533.00	17.00	1550.00	0.00	0.00	0.00	0.00
8.5in Open Hole	1550.00	10965.00	9415.00	1550.00	6325.00	0.00	0.00	-116.64	4381.23

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		-1.00	1226.99	21.74	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
ANTELOPE 11-41-33HNB HARDLINE (460' SETBACK)		6245.00	1226.99	21.74	3324131.29	1375892.19	40°21'33.804"N	104°20'12.696"W	polygon
2) ANTELOPE C13-W43-33HNC BHL REV-1 (2490'FSL & 470'FEL SEC.33)	10965.91	6325.00	-116.64	4382.15	3328508.76	1374605.91	40°21'20.523"N	104°19'16.373"W	point
1) ANTELOPE C13-W43-33HNC LP REV-1 (2475'FSL & 470'FWL SEC.33)	6680.89	6325.00	-103.64	97.15	3324224.14	1374562.72	40°21'20.655"N	104°20'11.722"W	point

SURVEY PROGRAM - Ref Wellbore: ANTELOPE C13-W43-33HNC PWB    Ref Wellpath: ANTELOPE C13-W43-33HNC REV-A.0 PWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
17.00	1550.00	BHI NaviTrak (Rotating)		ANTELOPE C13-W43-33HNC PWB
1550.00	10965.91	BHI AutoTrak Curve (Short)		ANTELOPE C13-W43-33HNC PWB

# Planned Wellpath Report

ANTELOPE C13-W43-33HNC REV-A.0 PWP  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	BONANZA CREEK OIL COMPANY	Slot	SLOT#08 ANTELOPE C13-W43-33HNC (2581'FSL & 374'FWL SEC.33)
Area	COLORADO	Well	ANTELOPE C13-W43-33HNC
Field	WELD COUNTY	Wellbore	ANTELOPE C13-W43-33HNC PWB
Facility	SEC.33-T5N-R62W		

DESIGN COMMENTS				
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Comment
17.00	0.000	259.489	17.00	Tie On
1550.00	0.000	259.489	1550.00	End of Tangent
1895.28	6.906	259.489	1894.44	End of Build
5713.04	6.906	259.489	5684.51	End of Tangent
6680.89	90.000	90.174	6325.00	End of 3D Arc
10965.91	90.000	90.174	6325.00	End of Tangent