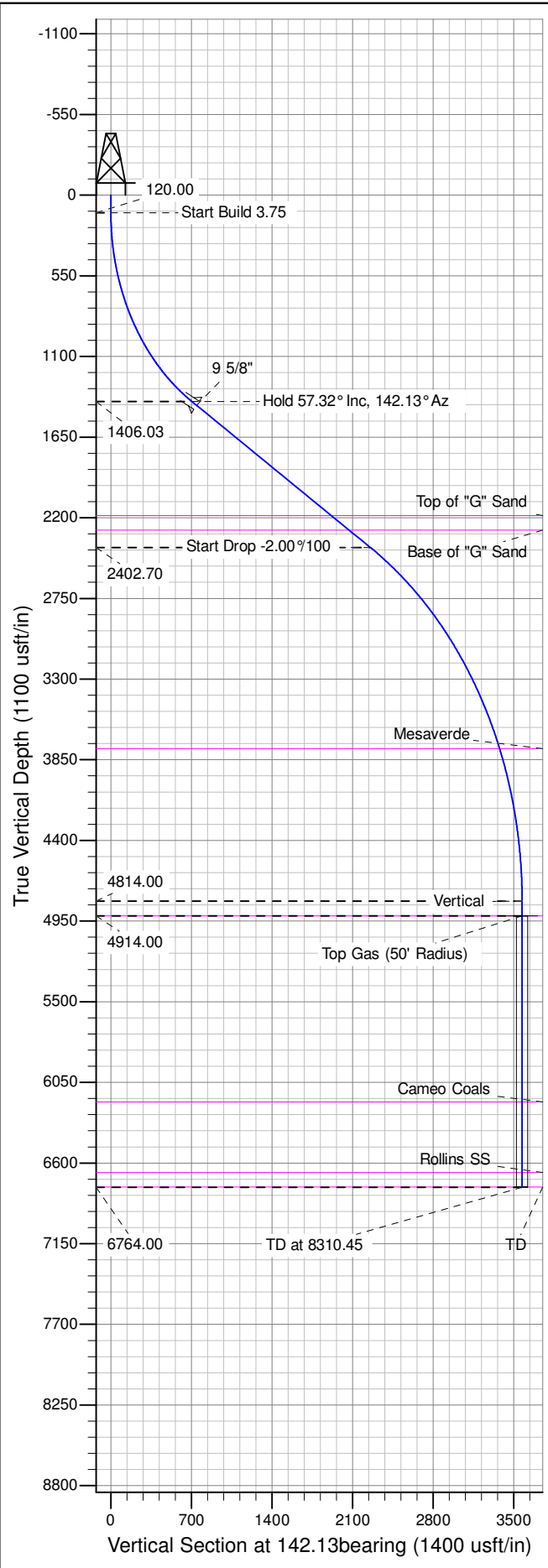
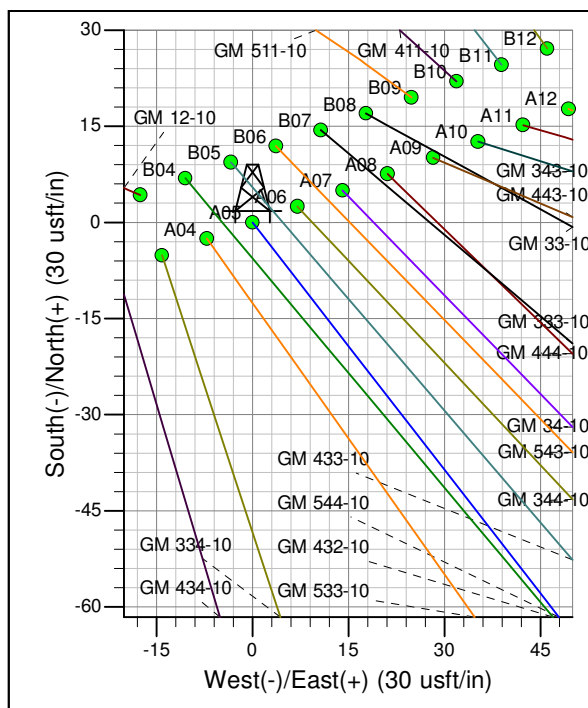
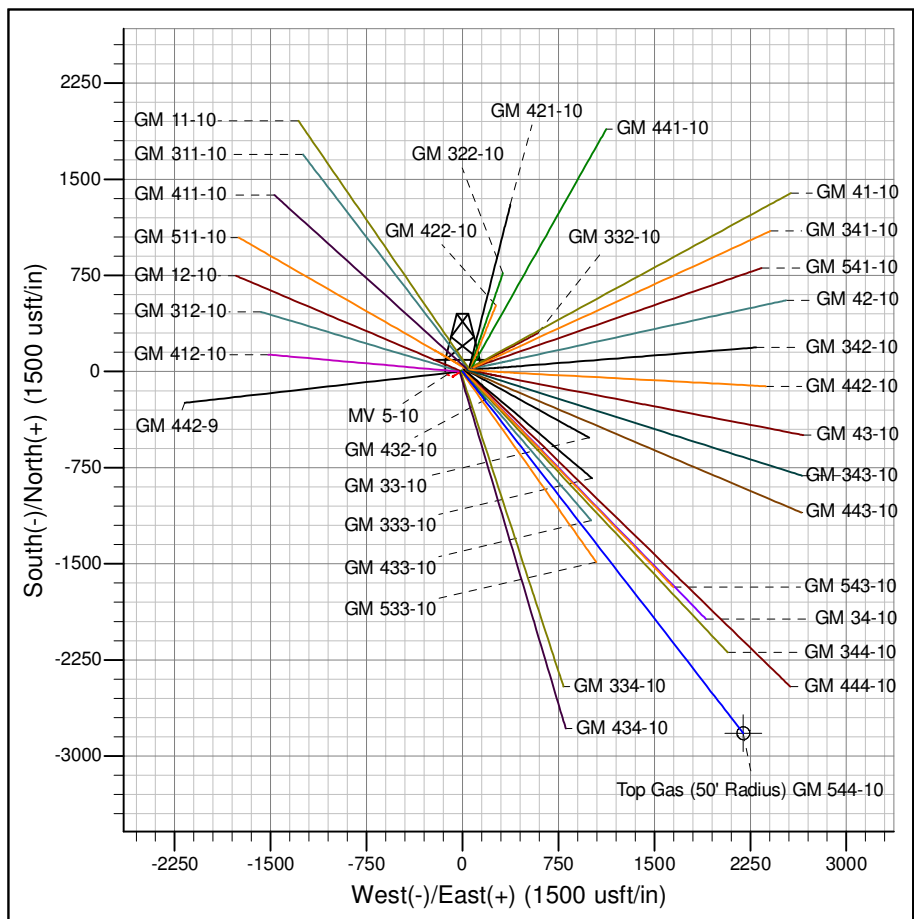




Well Name: GM 544-10
Surface Location: MV 5-10 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6148.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1600351.70 2266903.10 39.45297 -108.09655 A06
KELLY BUSHING @ 6174.00usft (Nabors (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.75	
1406.03	1648.54	57.32	142.13	-554.86	431.54	702.92	702.92	Hold 57.32° Inc, 142.13° Az	
2402.70	3494.43	57.32	142.13	-1781.30	1385.38	2256.61	2256.61	Start Drop -2.00°/100	
4814.00	6360.45	0.00	0.00	-2821.66	2194.51	3574.58	3574.58	Vertical	
4914.00	6460.45	0.00	0.00	-2821.66	2194.51	3574.58	3574.58	Top Gas	
6764.00	8310.45	0.00	0.00	-2821.66	2194.51	3574.58	3574.58	TD at 8310.45	



Azimuths to True North
Magnetic North: 9.99°

Magnetic Field
Strength: 51895.2snT
Dip Angle: 65.60°
Date: 8/7/2014
Model: IGRF2010

Project: GV 10-07S-096W
Site: MV 5-10 Pad
Well: GM 544-10
Design #1 07Aug14 mab

PICEANCE VLY NAD 83

GV 10-07S-096W

MV 5-10 Pad

GM 544-10 - Slot A06

Wellbore #1

Plan: Design #1 07Aug14 mab

Standard Planning Report - Geographic

14 October, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 544-10 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 544-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Project	GV 10-07S-096W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	MV 5-10 Pad			
Site Position:		Northing:	1,600,354.00000 usft	Latitude: 39.45298
From: Map		Easting:	2,266,910.20000 usft	Longitude: -108.09653
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.64 °

Well	GM 544-10 - Slot A06			
Well Position	+N/-S	0.00 usft	Northing:	1,600,351.70000 usft
	+E/-W	0.00 usft	Easting:	2,266,903.10000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	6,148.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/7/2014	9.99	65.60	51,895

Design	Design #1 07Aug14 mab			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	142.13

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,648.54	57.32	142.13	1,406.03	-554.86	431.54	3.75	3.75	0.00	142.13	
3,494.43	57.32	142.13	2,402.70	-1,781.30	1,385.38	0.00	0.00	0.00	0.00	
6,360.45	0.00	0.00	4,814.00	-2,821.66	2,194.51	2.00	-2.00	0.00	180.00	
6,460.45	0.00	0.00	4,914.00	-2,821.66	2,194.51	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
8,310.45	0.00	0.00	6,764.00	-2,821.66	2,194.51	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 544-10 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 544-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,600,351.70000	2,266,903.10000	39.45297	-108.09656	
120.00	0.00	0.00	120.00	0.00	0.00	1,600,351.70000	2,266,903.10000	39.45297	-108.09656	
Start Build 3.75										
200.00	3.00	142.13	199.96	-1.65	1.29	1,600,350.01114	2,266,904.33768	39.45297	-108.09655	
400.00	10.50	142.13	398.44	-20.20	15.71	1,600,331.06462	2,266,918.22264	39.45292	-108.09650	
600.00	18.00	142.13	592.14	-59.03	45.91	1,600,291.38576	2,266,947.30131	39.45281	-108.09639	
800.00	25.50	142.13	777.77	-117.49	91.38	1,600,231.65350	2,266,991.07613	39.45265	-108.09623	
1,000.00	33.00	142.13	952.15	-194.57	151.33	1,600,152.88986	2,267,048.79810	39.45244	-108.09602	
1,200.00	40.50	142.13	1,112.28	-288.97	224.74	1,600,056.44251	2,267,119.47958	39.45218	-108.09576	
1,400.00	48.00	142.13	1,255.44	-399.05	310.36	1,599,943.96168	2,267,201.91120	39.45188	-108.09546	
1,600.00	55.50	142.13	1,379.17	-522.94	406.71	1,599,817.37198	2,267,294.68252	39.45154	-108.09512	
1,648.54	57.32	142.13	1,406.03	-554.86	431.54	1,599,784.75835	2,267,318.58343	39.45145	-108.09503	
Hold 57.32° Inc, 142.13° Az										
1,698.54	57.32	142.13	1,433.02	-588.08	457.37	1,599,750.81659	2,267,343.45767	39.45136	-108.09494	
9 5/8"										
1,800.00	57.32	142.13	1,487.80	-655.49	509.80	1,599,681.93753	2,267,393.93571	39.45117	-108.09475	
2,000.00	57.32	142.13	1,595.79	-788.37	613.15	1,599,546.16174	2,267,493.43906	39.45081	-108.09439	
2,200.00	57.32	142.13	1,703.78	-921.26	716.49	1,599,410.38596	2,267,592.94241	39.45044	-108.09402	
2,400.00	57.32	142.13	1,811.77	-1,054.14	819.84	1,599,274.61017	2,267,692.44575	39.45008	-108.09365	
2,600.00	57.32	142.13	1,919.76	-1,187.02	923.19	1,599,138.83438	2,267,791.94909	39.44971	-108.09329	
2,800.00	57.32	142.13	2,027.75	-1,319.91	1,026.54	1,599,003.05860	2,267,891.45244	39.44935	-108.09292	
3,000.00	57.32	142.13	2,135.73	-1,452.79	1,129.88	1,598,867.28281	2,267,990.95579	39.44898	-108.09256	
3,089.39	57.32	142.13	2,184.00	-1,512.18	1,176.08	1,598,806.59718	2,268,035.42926	39.44882	-108.09239	
Top of "G" Sand										
3,200.00	57.32	142.13	2,243.72	-1,585.67	1,233.23	1,598,731.50702	2,268,090.45912	39.44862	-108.09219	
3,274.60	57.32	142.13	2,284.00	-1,635.23	1,271.78	1,598,680.86514	2,268,127.57205	39.44848	-108.09205	
Base of "G" Sand										
3,400.00	57.32	142.13	2,351.71	-1,718.55	1,336.58	1,598,595.73124	2,268,189.96247	39.44825	-108.09182	
3,494.43	57.32	142.13	2,402.70	-1,781.30	1,385.38	1,598,531.62250	2,268,236.94458	39.44808	-108.09165	
Start Drop -2.00°/100										
3,600.00	55.21	142.13	2,461.32	-1,850.59	1,439.27	1,598,460.81862	2,268,288.83324	39.44789	-108.09146	
3,800.00	51.21	142.13	2,581.08	-1,977.00	1,537.58	1,598,331.66297	2,268,383.48502	39.44755	-108.09111	
4,000.00	47.21	142.13	2,711.71	-2,096.50	1,630.52	1,598,209.55964	2,268,472.96849	39.44722	-108.09078	
4,200.00	43.21	142.13	2,852.59	-2,208.51	1,717.64	1,598,095.10351	2,268,556.84771	39.44691	-108.09047	
4,400.00	39.21	142.13	3,003.02	-2,312.50	1,798.51	1,597,988.85219	2,268,634.71404	39.44662	-108.09019	
4,600.00	35.21	142.13	3,162.27	-2,407.95	1,872.75	1,597,891.32334	2,268,706.18810	39.44636	-108.08993	
4,800.00	31.21	142.13	3,329.58	-2,494.40	1,939.98	1,597,802.99212	2,268,770.92168	39.44612	-108.08969	
5,000.00	27.21	142.13	3,504.11	-2,571.43	1,999.89	1,597,724.28884	2,268,828.59940	39.44591	-108.08948	
5,200.00	23.21	142.13	3,685.02	-2,638.66	2,052.18	1,597,655.59695	2,268,878.94028	39.44573	-108.08929	
5,296.14	21.29	142.13	3,774.00	-2,667.39	2,074.52	1,597,626.24101	2,268,900.45380	39.44565	-108.08921	
Mesaverde										
5,400.00	19.21	142.13	3,871.44	-2,695.76	2,096.59	1,597,597.25112	2,268,921.69905	39.44557	-108.08913	
5,600.00	15.21	142.13	4,062.45	-2,742.46	2,132.91	1,597,549.53559	2,268,956.66740	39.44544	-108.08900	
5,800.00	11.21	142.13	4,257.12	-2,778.52	2,160.96	1,597,512.68283	2,268,983.67496	39.44534	-108.08891	
6,000.00	7.21	142.13	4,454.50	-2,803.79	2,180.60	1,597,486.87238	2,269,002.59016	39.44528	-108.08884	
6,200.00	3.21	142.13	4,653.63	-2,818.12	2,191.75	1,597,472.22999	2,269,013.32084	39.44524	-108.08880	
6,360.45	0.00	0.00	4,814.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879	
Vertical										
6,400.00	0.00	0.00	4,853.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879	
6,460.45	0.00	0.00	4,914.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879	
Top Gas - Approx. Top Gas										
6,600.00	0.00	0.00	5,053.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 544-10 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 544-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,800.00	0.00	0.00	5,253.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
7,000.00	0.00	0.00	5,453.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
7,200.00	0.00	0.00	5,653.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
7,400.00	0.00	0.00	5,853.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
7,600.00	0.00	0.00	6,053.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
7,730.45	0.00	0.00	6,184.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
Cameo Coals									
7,800.00	0.00	0.00	6,253.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
8,000.00	0.00	0.00	6,453.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
8,200.00	0.00	0.00	6,653.55	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
8,210.45	0.00	0.00	6,664.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
Rollins SS									
8,310.45	0.00	0.00	6,764.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
TD at 8310.45									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (50' Radius) G1	0.00	0.00	4,914.00	-2,821.66	2,194.51	1,597,468.60684	2,269,015.97607	39.44523	-108.08879
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,698.54	1,433.02	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,089.39	2,184.00	Top of "G" Sand				
3,274.60	2,284.00	Base of "G" Sand				
5,296.14	3,774.00	Mesaverde				
6,460.45	4,914.00	Approx. Top Gas				
7,730.45	6,184.00	Cameo Coals				
8,210.45	6,664.00	Rollins SS				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 544-10 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 544-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 3.75
1,648.54	1,406.03	-554.86	431.54	Hold 57.32° Inc, 142.13° Az
3,494.43	2,402.70	-1,781.30	1,385.38	Start Drop -2.00°/100
6,360.45	4,814.00	-2,821.66	2,194.51	Vertical
6,460.45	4,914.00	-2,821.66	2,194.51	Top Gas
8,310.45	6,764.00	-2,821.66	2,194.51	TD at 8310.45