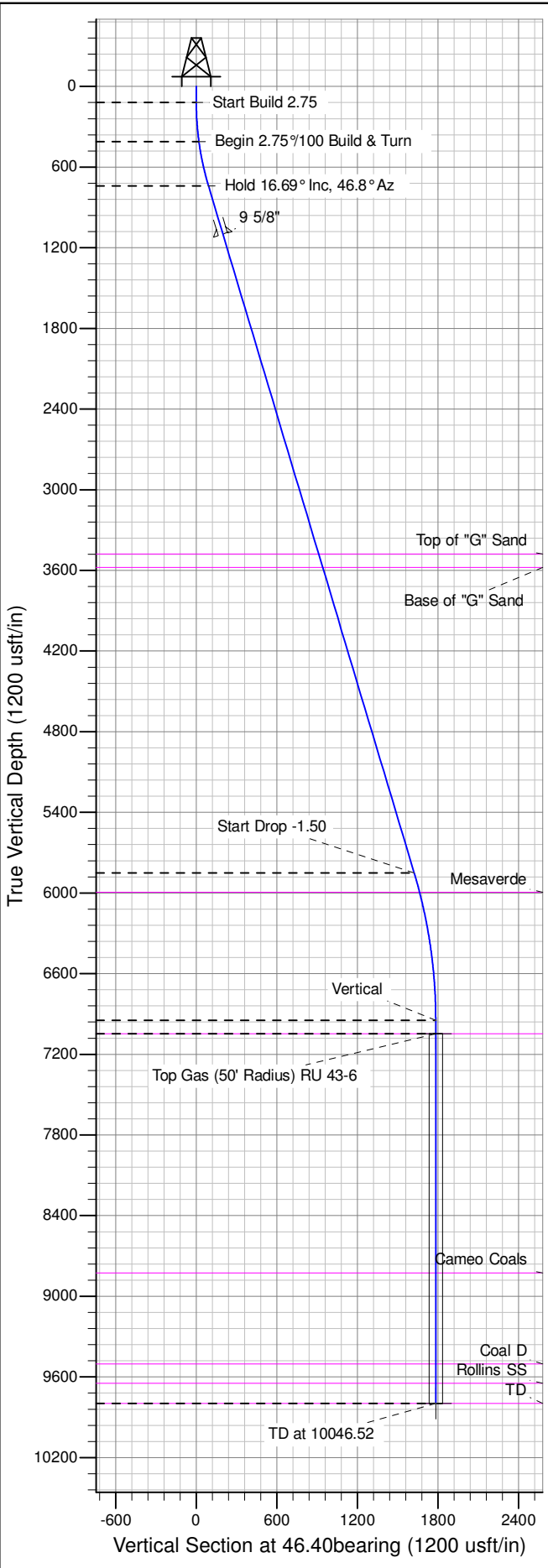
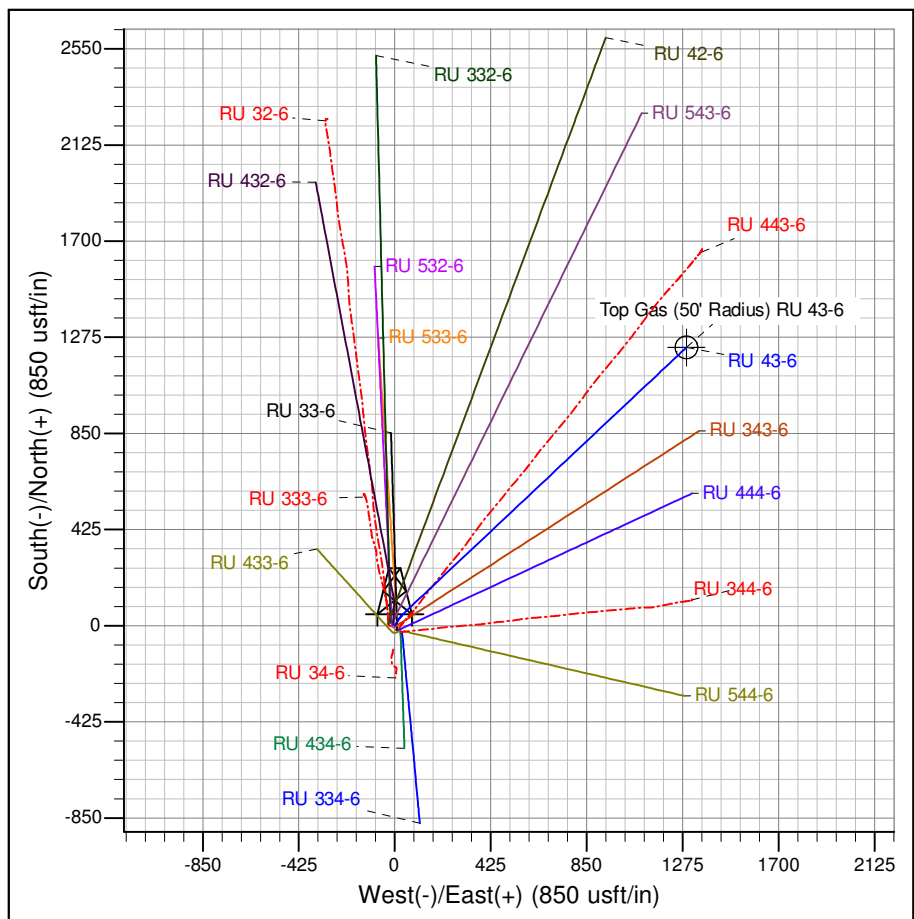




Well Name: RU 43-6
Surface Location: RU 34-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7537.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603605.00000 2346562.00000 39.46781 -107.81483 A07
KELLY BUSHING @ 7563.00usft (Nabors 574 (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 2.75	
409.96	410.91	8.00	30.00	17.56	10.14	19.45	20.28	Begin 2.75%/100 Build & Turn	
740.79	749.80	16.69	46.80	71.42	57.52	90.91	92.27	Hold 16.69° Inc, 46.8° Az	
5849.69	6083.52	16.69	46.80	1120.30	1174.50	1623.12	1624.52	Start Drop -1.50	
6947.00	7196.52	0.00	0.00	1230.52	1291.87	1784.13	1785.53	Vertical	
7047.00	7296.52	0.00	0.00	1230.52	1291.87	1784.13	1785.53	Top Gas	
9797.00	10046.52	0.00	0.00	1230.52	1291.87	1784.13	1785.53	TD at 10046.52	





PICEANCE VLY NAD 83

RU 06-07S-093W

RU 34-6 Pad

RU 43-6 - Slot A07

Wellbore #1

Plan: Plan #5 10Jul14 mab

Standard Planning Report - Geographic

13 August, 2014



WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 43-6 - Slot A07
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 34-6 Pad	North Reference:	True
Well:	RU 43-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 10Jul14 mab		

Project	RU 06-07S-093W		
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	RU 34-6 Pad			
Site Position:		Northing:	1,603,613.20000 usft	Latitude: 39.46783
From: Map		Easting:	2,346,531.50000 usft	Longitude: -107.81494
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.46 °

Well	RU 43-6 - Slot A07					
Well Position	+N/-S	0.00 usft	Northing:	1,603,605.00000 usft	Latitude:	39.46781
	+E/-W	0.00 usft	Easting:	2,346,562.00000 usft	Longitude:	-107.81484
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	7,537.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/21/2008	10.59	65.83	52,537

Design	Plan #5 10Jul14 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	46.40

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	
410.91	8.00	30.00	409.96	17.56	10.14	2.75	2.75	0.00	30.00	
749.80	16.69	46.80	740.79	71.42	57.52	2.75	2.57	4.96	30.85	
6,083.52	16.69	46.80	5,849.69	1,120.30	1,174.50	0.00	0.00	0.00	0.00	
7,196.52	0.00	0.00	6,947.00	1,230.52	1,291.87	1.50	-1.50	0.00	180.00	
10,046.52	0.00	0.00	9,797.00	1,230.52	1,291.87	0.00	0.00	0.00	0.00	TD / PBHL RU 43-6



WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 43-6 - Slot A07
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 34-6 Pad	North Reference:	True
Well:	RU 43-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 10Jul14 mab		

Planned Survey										
Measured			Vertical			Map				
Depth (usft)	Inclination (°)	Azimuth (bearing)	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	1,603,605.00000	2,346,562.00000	39.46781	-107.81484	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,605.00000	2,346,562.00000	39.46781	-107.81484	
Start Build 2.75										
200.00	2.20	30.00	199.98	1.33	0.77	1,603,606.30990	2,346,562.80145	39.46782	-107.81483	
400.00	7.70	30.00	399.16	16.27	9.39	1,603,621.02416	2,346,571.80421	39.46786	-107.81480	
410.91	8.00	30.00	409.96	17.56	10.14	1,603,622.29505	2,346,572.58179	39.46786	-107.81480	
Begin 2.75°/100 Build & Turn										
600.00	12.74	42.16	595.93	44.43	30.73	1,603,648.63483	2,346,593.85182	39.46793	-107.81473	
749.80	16.69	46.80	740.79	71.42	57.52	1,603,674.93133	2,346,621.31746	39.46801	-107.81463	
Hold 16.69° Inc, 46.8° Az										
800.00	16.69	46.80	788.88	81.29	68.03	1,603,684.53153	2,346,632.07773	39.46804	-107.81460	
1,000.00	16.69	46.80	980.45	120.62	109.92	1,603,722.77999	2,346,674.94810	39.46814	-107.81445	
1,124.81	16.69	46.80	1,100.00	145.17	136.05	1,603,746.64966	2,346,701.70216	39.46821	-107.81435	
9 5/8"										
1,200.00	16.69	46.80	1,172.02	159.95	151.80	1,603,761.02845	2,346,717.81847	39.46825	-107.81430	
1,400.00	16.69	46.80	1,363.59	199.28	193.68	1,603,799.27691	2,346,760.68884	39.46836	-107.81415	
1,600.00	16.69	46.80	1,555.16	238.61	235.57	1,603,837.52537	2,346,803.55920	39.46847	-107.81400	
1,800.00	16.69	46.80	1,746.73	277.94	277.45	1,603,875.77383	2,346,846.42957	39.46858	-107.81385	
2,000.00	16.69	46.80	1,938.30	317.27	319.33	1,603,914.02229	2,346,889.29994	39.46868	-107.81371	
2,200.00	16.69	46.80	2,129.86	356.60	361.22	1,603,952.27076	2,346,932.17031	39.46879	-107.81356	
2,400.00	16.69	46.80	2,321.43	395.93	403.10	1,603,990.51922	2,346,975.04068	39.46890	-107.81341	
2,600.00	16.69	46.80	2,513.00	435.26	444.99	1,604,028.76768	2,347,017.91105	39.46901	-107.81326	
2,800.00	16.69	46.80	2,704.57	474.59	486.87	1,604,067.01615	2,347,060.78142	39.46912	-107.81311	
3,000.00	16.69	46.80	2,896.14	513.92	528.75	1,604,105.26461	2,347,103.65179	39.46922	-107.81296	
3,200.00	16.69	46.80	3,087.71	553.25	570.64	1,604,143.51307	2,347,146.52216	39.46933	-107.81281	
3,400.00	16.69	46.80	3,279.28	592.58	612.52	1,604,181.76152	2,347,189.39253	39.46944	-107.81267	
3,600.00	16.69	46.80	3,470.85	631.91	654.40	1,604,220.00999	2,347,232.26289	39.46955	-107.81252	
3,607.46	16.69	46.80	3,478.00	633.38	655.97	1,604,221.43719	2,347,233.86255	39.46955	-107.81251	
Top of "G" Sand										
3,711.86	16.69	46.80	3,578.00	653.91	677.83	1,604,241.40302	2,347,256.24104	39.46961	-107.81244	
Base of "G" Sand										
3,800.00	16.69	46.80	3,662.42	671.24	696.29	1,604,258.25845	2,347,275.13326	39.46966	-107.81237	
4,000.00	16.69	46.80	3,853.99	710.57	738.17	1,604,296.50691	2,347,318.00363	39.46976	-107.81222	
4,200.00	16.69	46.80	4,045.56	749.90	780.06	1,604,334.75538	2,347,360.87400	39.46987	-107.81207	
4,400.00	16.69	46.80	4,237.13	789.23	821.94	1,604,373.00384	2,347,403.74437	39.46998	-107.81192	
4,600.00	16.69	46.80	4,428.70	828.56	863.82	1,604,411.25230	2,347,446.61473	39.47009	-107.81178	
4,800.00	16.69	46.80	4,620.27	867.90	905.71	1,604,449.50076	2,347,489.48510	39.47020	-107.81163	
5,000.00	16.69	46.80	4,811.84	907.23	947.59	1,604,487.74923	2,347,532.35547	39.47030	-107.81148	
5,200.00	16.69	46.80	5,003.41	946.56	989.47	1,604,525.99769	2,347,575.22584	39.47041	-107.81133	
5,400.00	16.69	46.80	5,194.98	985.89	1,031.36	1,604,564.24615	2,347,618.09620	39.47052	-107.81118	
5,600.00	16.69	46.80	5,386.55	1,025.22	1,073.24	1,604,602.49461	2,347,660.96657	39.47063	-107.81103	
5,800.00	16.69	46.80	5,578.12	1,064.55	1,115.13	1,604,640.74307	2,347,703.83694	39.47073	-107.81089	
6,000.00	16.69	46.80	5,769.69	1,103.88	1,157.01	1,604,678.99153	2,347,746.70731	39.47084	-107.81074	
6,083.52	16.69	46.80	5,849.69	1,120.30	1,174.50	1,604,694.96414	2,347,764.61004	39.47089	-107.81068	
Start Drop -1.50										
6,200.00	14.95	46.80	5,961.75	1,142.04	1,197.65	1,604,716.10417	2,347,788.30461	39.47095	-107.81059	
6,234.37	14.43	46.80	5,995.00	1,148.00	1,204.00	1,604,721.90716	2,347,794.80883	39.47096	-107.81057	
Mesaverde										
6,400.00	11.95	46.80	6,156.24	1,173.87	1,231.55	1,604,747.06391	2,347,823.00549	39.47104	-107.81047	
6,600.00	8.95	46.80	6,352.91	1,198.70	1,257.99	1,604,771.20494	2,347,850.06370	39.47110	-107.81038	
6,800.00	5.95	46.80	6,551.20	1,216.44	1,276.88	1,604,788.46108	2,347,869.40506	39.47115	-107.81031	
7,000.00	2.95	46.80	6,750.57	1,227.06	1,288.19	1,604,798.78505	2,347,880.97657	39.47118	-107.81027	



WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 43-6 - Slot A07
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 34-6 Pad	North Reference:	True
Well:	RU 43-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 10Jul14 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
7,196.52	0.00	0.00	6,947.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
Vertical									
7,200.00	0.00	0.00	6,950.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
7,296.52	0.00	0.00	7,047.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
Top Gas - Approx. Top Gas									
7,400.00	0.00	0.00	7,150.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
7,600.00	0.00	0.00	7,350.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
7,800.00	0.00	0.00	7,550.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
8,000.00	0.00	0.00	7,750.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
8,200.00	0.00	0.00	7,950.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
8,400.00	0.00	0.00	8,150.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
8,600.00	0.00	0.00	8,350.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
8,800.00	0.00	0.00	8,550.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,000.00	0.00	0.00	8,750.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,076.52	0.00	0.00	8,827.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
Cameo Coals									
9,200.00	0.00	0.00	8,950.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,400.00	0.00	0.00	9,150.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,600.00	0.00	0.00	9,350.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,751.52	0.00	0.00	9,502.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
Coal D									
9,800.00	0.00	0.00	9,550.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
9,896.52	0.00	0.00	9,647.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
Rollins SS									
10,000.00	0.00	0.00	9,750.48	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
10,046.52	0.00	0.00	9,797.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
TD at 10046.52 - TD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (50' Radius) RL - plan hits target center - Circle (radius 50.00)	0.00	0.00	7,047.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026
TD / PBHL RU 43-6 - plan hits target center - Point	0.00	0.00	9,797.00	1,230.52	1,291.87	1,604,802.14960	2,347,884.74768	39.47119	-107.81026

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,124.81	1,100.00	9 5/8"	9.625	13.500	



Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 43-6 - Slot A07
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 34-6 Pad	North Reference:	True
Well:	RU 43-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #5 10Jul14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,607.46	3,478.00	Top of "G" Sand				
3,711.86	3,578.00	Base of "G" Sand				
6,234.37	5,995.00	Mesaverde				
7,296.52	7,047.00	Approx. Top Gas				
9,076.52	8,827.00	Cameo Coals				
9,751.52	9,502.00	Coal D				
9,896.52	9,647.00	Rollins SS				
10,046.52	9,797.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 2.75	
410.91	409.96	17.56	10.14	Begin 2.75°/100 Build & Turn	
749.80	740.79	71.42	57.52	Hold 16.69° Inc, 46.8° Az	
6,083.52	5,849.69	1,120.30	1,174.50	Start Drop -1.50	
7,196.52	6,947.00	1,230.52	1,291.87	Vertical	
7,296.52	7,047.00	1,230.52	1,291.87	Top Gas	
10,046.52	9,797.00	1,230.52	1,291.87	TD at 10046.52	