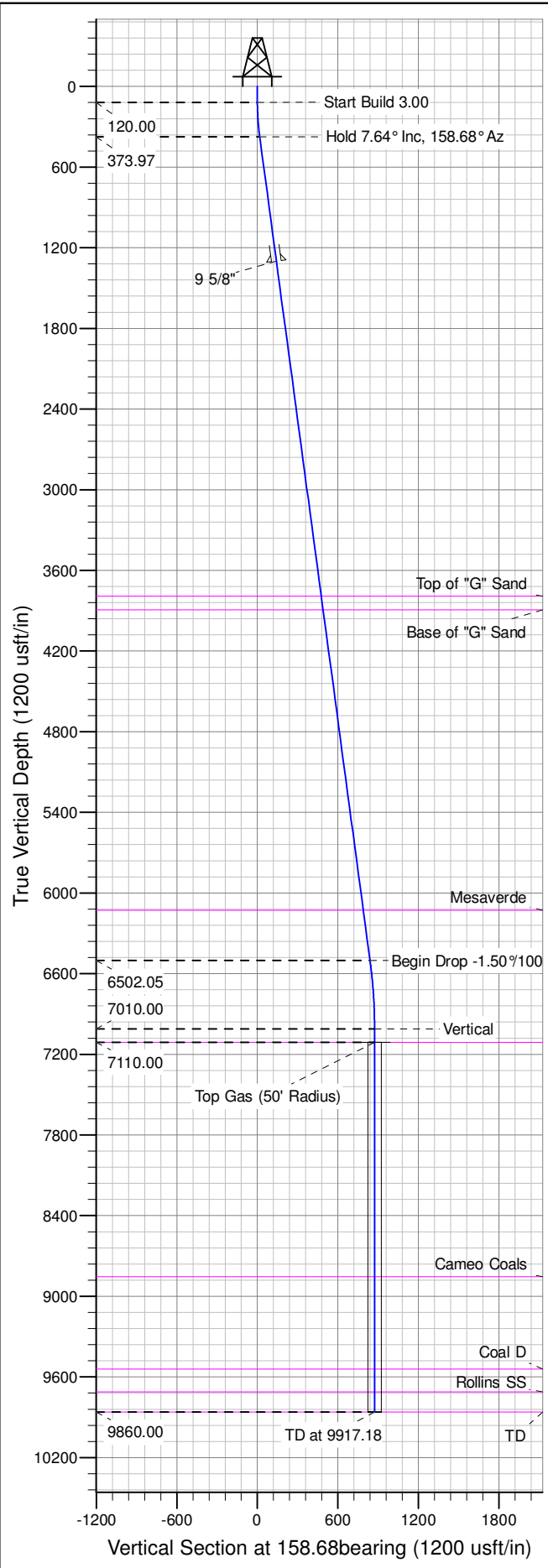
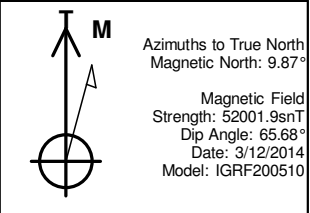
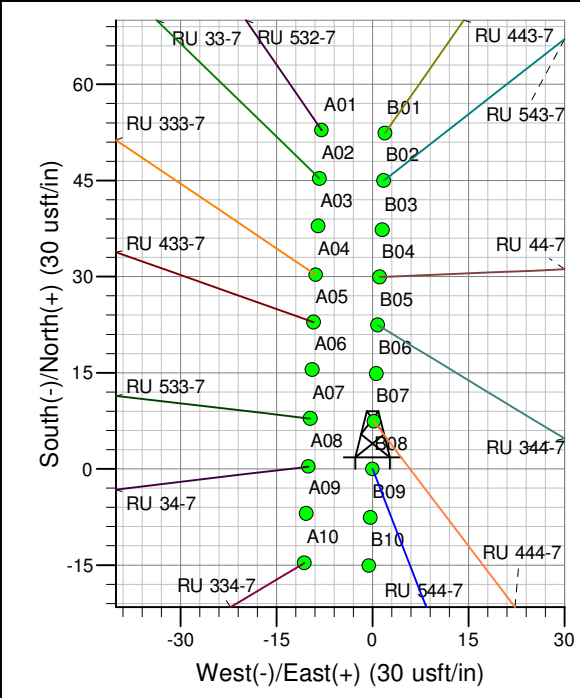
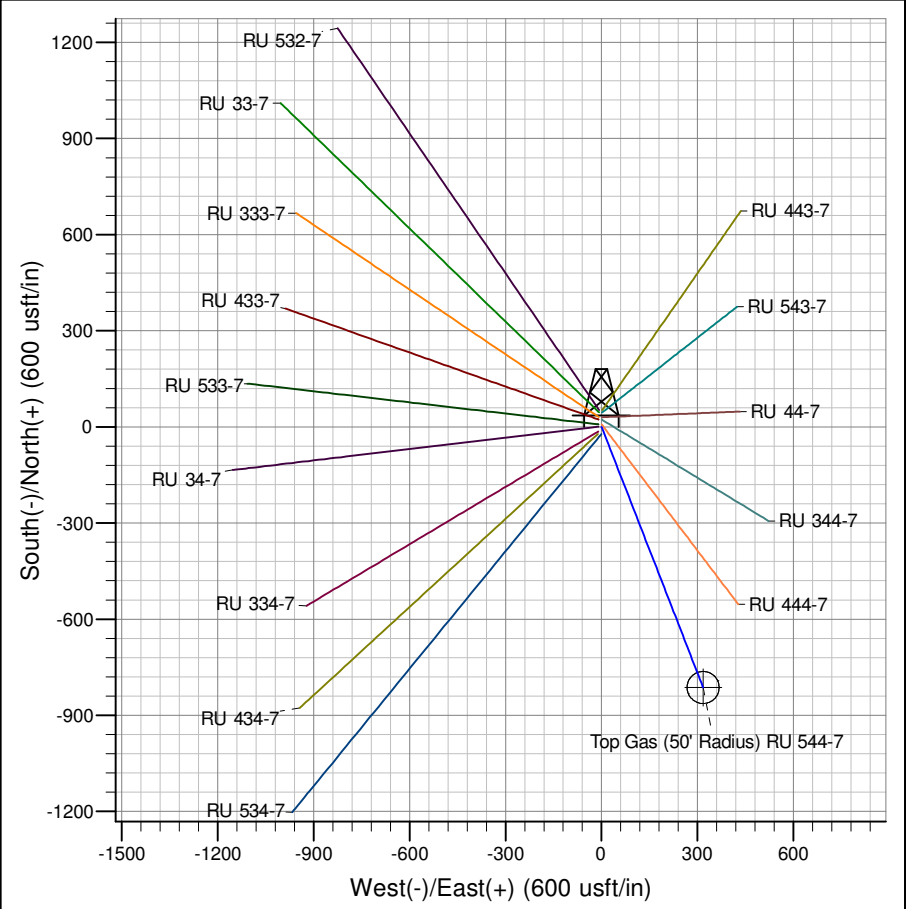




Well Name: RU 544-7  
Surface Location: RU 44-7 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7917.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1598823.20000 2347576.90000 39.45476 -107.81081 B08  
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



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 3.00	
373.97	374.73	7.64	158.68	-15.80	6.17	16.96	16.96	Hold 7.64° Inc, 158.68° Az	
6502.05	6557.72	7.64	158.68	-781.72	305.17	839.18	839.18	Begin Drop -1.50°/100	
7010.00	7067.18	0.00	0.00	-813.32	317.50	873.10	873.10	Vertical	
7110.00	7167.18	0.00	0.00	-813.32	317.50	873.10	873.10	Top Gas	
9860.00	9917.18	0.00	0.00	-813.32	317.50	873.10	873.10	TD at 9917.18	



Azimuths to True North  
Magnetic North: 9.87°  
Magnetic Field  
Strength: 52001.9snT  
Dip Angle: 65.68°  
Date: 3/12/2014  
Model: IGRF200510  
Project: RU 07-07S-093W  
Site: RU 44-7 Pad  
Well: RU 544-7  
Design #2 28May14 mab

# **PICEANCE VLY NAD 83**

**RU 07-07S-093W**

**RU 44-7 Pad**

**RU 544-7 - Slot B08**

**Wellbore #1**

**Plan: Design #2 28May14 mab**

## **Standard Planning Report - Geographic**

**12 June, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 544-7 - Slot B08
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Project:</b>	RU 07-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Site:</b>	RU 44-7 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 544-7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2 28May14 mab		

<b>Project</b>	RU 07-07S-093W, Garfield County, CO		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

<b>Site</b>	RU 44-7 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,598,795.70000 usft	<b>Latitude:</b> 39.45468
<b>From:</b> Map		<b>Easting:</b>	2,347,575.10000 usft	<b>Longitude:</b> -107.81082
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.46 °

<b>Well</b>	RU 544-7 - Slot B08			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,598,823.20000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,347,576.90000 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	0.00 usft
			<b>Ground Level:</b>	7,917.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	3/12/2014	9.87	65.68	52,002

<b>Design</b>	Design #2 28May14 mab			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (bearing)</b>
	0.00	0.00	0.00	158.68

<b>Plan Sections</b>										
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	
374.73	7.64	158.68	373.97	-15.80	6.17	3.00	3.00	0.00	158.68	
6,557.72	7.64	158.68	6,502.05	-781.72	305.17	0.00	0.00	0.00	0.00	
7,067.18	0.00	0.00	7,010.00	-813.32	317.50	1.50	-1.50	0.00	180.00	
7,167.18	0.00	0.00	7,110.00	-813.32	317.50	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,917.18	0.00	0.00	9,860.00	-813.32	317.50	0.00	0.00	0.00	0.00	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 544-7 - Slot B08
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Project:</b>	RU 07-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Site:</b>	RU 44-7 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 544-7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2 28May14 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	1,598,823.20000	2,347,576.90000	39.45476	-107.81081
120.00	0.00	0.00	120.00	0.00	0.00	1,598,823.20000	2,347,576.90000	39.45476	-107.81081
Start Build 3.00									
200.00	2.40	158.68	199.98	-1.56	0.61	1,598,821.62451	2,347,577.46930	39.45476	-107.81081
374.73	7.64	158.68	373.97	-15.80	6.17	1,598,807.24823	2,347,582.66409	39.45472	-107.81079
Hold 7.64° Inc, 158.68° Az									
400.00	7.64	158.68	399.02	-18.93	7.39	1,598,804.08768	2,347,583.80614	39.45471	-107.81079
600.00	7.64	158.68	597.24	-43.71	17.06	1,598,779.07569	2,347,592.84407	39.45464	-107.81075
800.00	7.64	158.68	795.47	-68.48	26.73	1,598,754.06371	2,347,601.88202	39.45457	-107.81072
1,000.00	7.64	158.68	993.69	-93.26	36.41	1,598,729.05172	2,347,610.91996	39.45450	-107.81068
1,200.00	7.64	158.68	1,191.92	-118.03	46.08	1,598,704.03974	2,347,619.95790	39.45444	-107.81065
1,309.05	7.64	158.68	1,300.00	-131.54	51.35	1,598,690.40163	2,347,624.88596	39.45440	-107.81063
9 5/8"									
1,400.00	7.64	158.68	1,390.14	-142.81	55.75	1,598,679.02775	2,347,628.99585	39.45437	-107.81061
1,600.00	7.64	158.68	1,588.36	-167.58	65.42	1,598,654.01577	2,347,638.03379	39.45430	-107.81058
1,800.00	7.64	158.68	1,786.59	-192.36	75.09	1,598,629.00379	2,347,647.07174	39.45423	-107.81055
2,000.00	7.64	158.68	1,984.81	-217.13	84.76	1,598,603.99181	2,347,656.10968	39.45416	-107.81051
2,200.00	7.64	158.68	2,183.03	-241.91	94.43	1,598,578.97982	2,347,665.14763	39.45410	-107.81048
2,400.00	7.64	158.68	2,381.26	-266.68	104.11	1,598,553.96783	2,347,674.18557	39.45403	-107.81044
2,600.00	7.64	158.68	2,579.48	-291.46	113.78	1,598,528.95585	2,347,683.22352	39.45396	-107.81041
2,800.00	7.64	158.68	2,777.71	-316.23	123.45	1,598,503.94386	2,347,692.26146	39.45389	-107.81037
3,000.00	7.64	158.68	2,975.93	-341.01	133.12	1,598,478.93188	2,347,701.29940	39.45382	-107.81034
3,200.00	7.64	158.68	3,174.15	-365.78	142.79	1,598,453.91989	2,347,710.33735	39.45376	-107.81031
3,400.00	7.64	158.68	3,372.38	-390.56	152.46	1,598,428.90791	2,347,719.37529	39.45369	-107.81027
3,600.00	7.64	158.68	3,570.60	-415.33	162.14	1,598,403.89592	2,347,728.41324	39.45362	-107.81024
3,800.00	7.64	158.68	3,768.82	-440.11	171.81	1,598,378.88393	2,347,737.45118	39.45355	-107.81020
3,823.38	7.64	158.68	3,792.00	-443.01	172.94	1,598,375.95965	2,347,738.50785	39.45354	-107.81020
Top of "G" Sand									
3,924.28	7.64	158.68	3,892.00	-455.50	177.82	1,598,363.34160	2,347,743.06732	39.45351	-107.81018
Base of "G" Sand									
4,000.00	7.64	158.68	3,967.05	-464.88	181.48	1,598,353.87195	2,347,746.48913	39.45348	-107.81017
4,200.00	7.64	158.68	4,165.27	-489.66	191.15	1,598,328.85996	2,347,755.52707	39.45342	-107.81013
4,400.00	7.64	158.68	4,363.50	-514.43	200.82	1,598,303.84798	2,347,764.56501	39.45335	-107.81010
4,600.00	7.64	158.68	4,561.72	-539.21	210.49	1,598,278.83599	2,347,773.60296	39.45328	-107.81007
4,800.00	7.64	158.68	4,759.94	-563.98	220.17	1,598,253.82401	2,347,782.64090	39.45321	-107.81003
5,000.00	7.64	158.68	4,958.17	-588.76	229.84	1,598,228.81203	2,347,791.67885	39.45314	-107.81000
5,200.00	7.64	158.68	5,156.39	-613.53	239.51	1,598,203.80005	2,347,800.71679	39.45307	-107.80996
5,400.00	7.64	158.68	5,354.61	-638.31	249.18	1,598,178.78806	2,347,809.75474	39.45301	-107.80993
5,600.00	7.64	158.68	5,552.84	-663.09	258.85	1,598,153.77607	2,347,818.79268	39.45294	-107.80989
5,800.00	7.64	158.68	5,751.06	-687.86	268.52	1,598,128.76409	2,347,827.83063	39.45287	-107.80986
6,000.00	7.64	158.68	5,949.29	-712.64	278.20	1,598,103.75210	2,347,836.86857	39.45280	-107.80983
6,180.32	7.64	158.68	6,128.00	-734.97	286.91	1,598,081.20184	2,347,845.01698	39.45274	-107.80980
Mesaverde									
6,200.00	7.64	158.68	6,147.51	-737.41	287.87	1,598,078.74012	2,347,845.90651	39.45273	-107.80979
6,400.00	7.64	158.68	6,345.73	-762.19	297.54	1,598,053.72813	2,347,854.94446	39.45267	-107.80976
6,557.72	7.64	158.68	6,502.05	-781.72	305.17	1,598,034.00354	2,347,862.07183	39.45261	-107.80973
Begin Drop -1.50°/100									
6,600.00	7.01	158.68	6,543.99	-786.74	307.13	1,598,028.93435	2,347,863.90356	39.45260	-107.80972
6,800.00	4.01	158.68	6,743.04	-804.62	314.11	1,598,010.88395	2,347,870.42597	39.45255	-107.80970
7,000.00	1.01	158.68	6,942.83	-812.77	317.29	1,598,002.65551	2,347,873.39927	39.45253	-107.80969
7,067.18	0.00	0.00	7,010.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
Vertical									

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 544-7 - Slot B08
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Project:</b>	RU 07-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Site:</b>	RU 44-7 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 544-7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2 28May14 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
7,167.18	0.00	0.00	7,110.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
<b>Top Gas - Approx. Top Gas</b>									
7,200.00	0.00	0.00	7,142.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
7,400.00	0.00	0.00	7,342.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
7,600.00	0.00	0.00	7,542.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
7,800.00	0.00	0.00	7,742.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,000.00	0.00	0.00	7,942.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,200.00	0.00	0.00	8,142.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,400.00	0.00	0.00	8,342.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,600.00	0.00	0.00	8,542.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,800.00	0.00	0.00	8,742.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
8,912.18	0.00	0.00	8,855.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
<b>Cameo Coals</b>									
9,000.00	0.00	0.00	8,942.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
9,200.00	0.00	0.00	9,142.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
9,400.00	0.00	0.00	9,342.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
9,598.18	0.00	0.00	9,541.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
<b>Coal D</b>									
9,600.00	0.00	0.00	9,542.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
9,767.18	0.00	0.00	9,710.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
<b>Rollins SS</b>									
9,800.00	0.00	0.00	9,742.82	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
9,917.18	0.00	0.00	9,860.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
<b>TD at 9917.18 - TD</b>									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (50' Radius) RL - hit/miss target - Shape	0.00	0.00	7,110.00	-813.32	317.50	1,598,002.10000	2,347,873.60000	39.45253	-107.80969
- plan hits target center - Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,309.05	1,300.00	9 5/8"	9.625	13.500	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 544-7 - Slot B08
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Project:</b>	RU 07-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
<b>Site:</b>	RU 44-7 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 544-7	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #2 28May14 mab		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
	3,823.38	3,792.00	Top of "G" Sand			
	3,924.28	3,892.00	Base of "G" Sand			
	6,180.32	6,128.00	Mesaverde			
	7,167.18	7,110.00	Approx. Top Gas			
	8,912.18	8,855.00	Cameo Coals			
	9,598.18	9,541.00	Coal D			
	9,767.18	9,710.00	Rollins SS			
	9,917.18	9,860.00	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 3.00
	374.73	373.97	-15.80	6.17	Hold 7.64° Inc, 158.68° Az
	6,557.72	6,502.05	-781.72	305.17	Begin Drop -1.50°/100
	7,067.18	7,010.00	-813.32	317.50	Vertical
	7,167.18	7,110.00	-813.32	317.50	Top Gas
	9,917.18	9,860.00	-813.32	317.50	TD at 9917.18