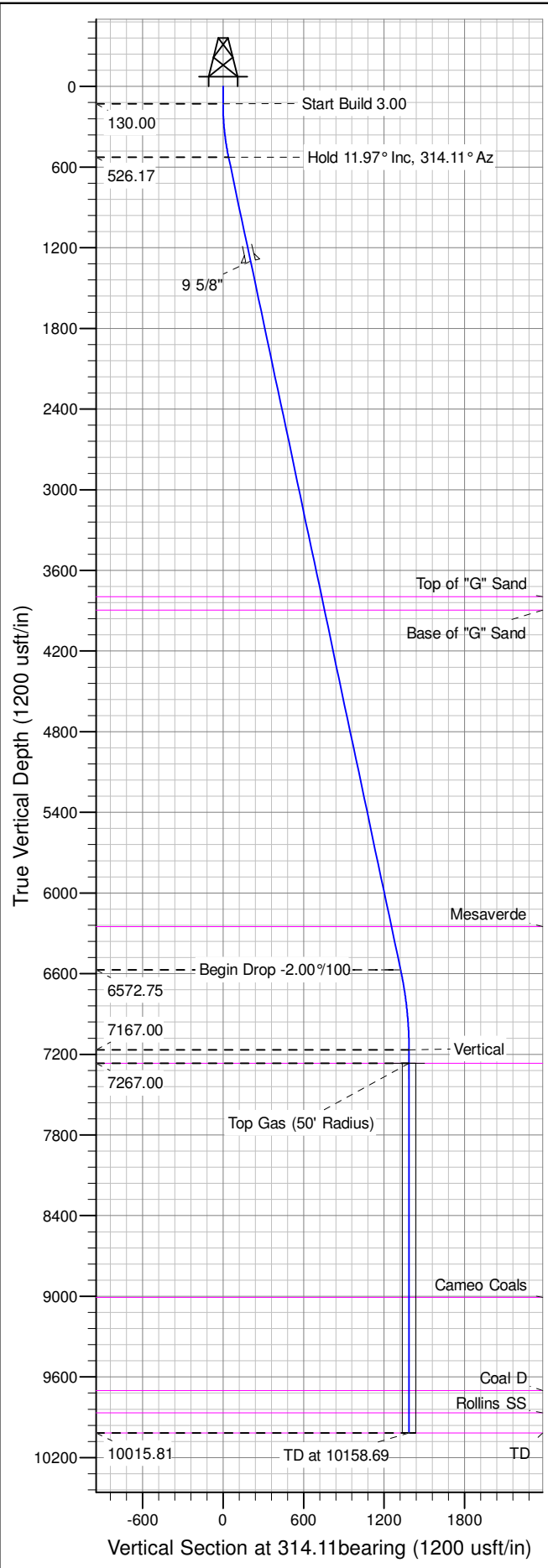
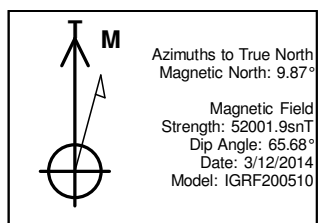
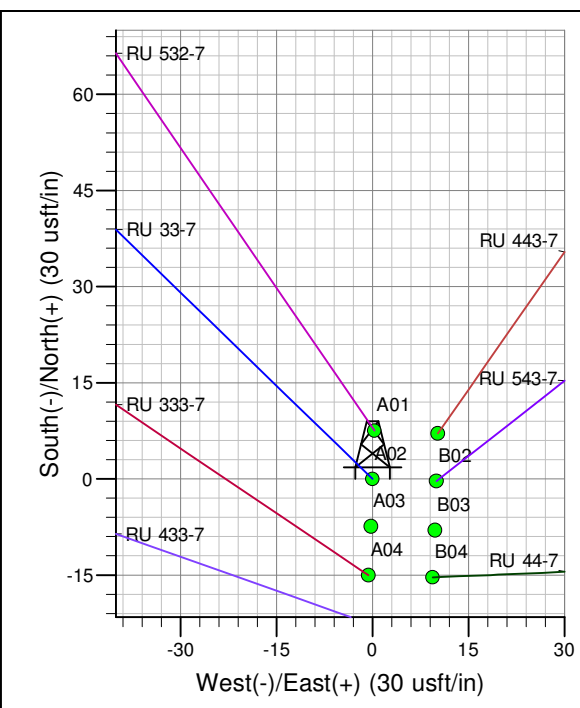
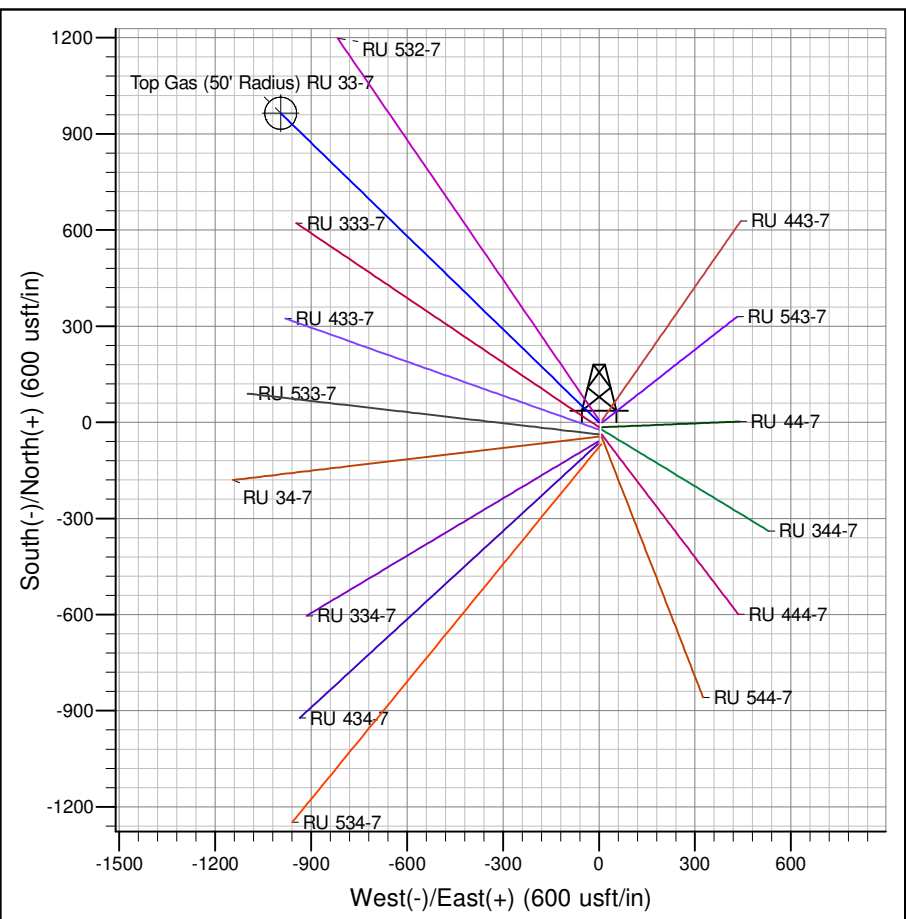




Well Name: RU 33-7  
Surface Location: RU 44-7 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7917.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1598868.70000 2347569.80000 39.45488 -107.81084 A02  
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00	
526.17	529.07	11.97	314.11	28.91	-29.83	41.54	41.54	Hold 11.97° Inc, 314.11° Az	
6572.75	6710.09	11.97	314.11	921.30	-950.46	1323.69	1323.69	Begin Drop -2.00%/100	
7167.00	7308.69	0.00	0.00	964.66	-995.20	1386.00	1386.00	Vertical	
7267.00	7408.69	0.00	0.00	964.66	-995.20	1386.00	1386.00	Top Gas	
10015.81	10157.50	0.00	0.00	964.66	-995.20	1386.00	1386.00	TD at 10158.69	



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 33-7  
Design #2 28May14 mab

# **PICEANCE VLY NAD 83**

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

**RU 44-7 Pad**

**RU 33-7 - Slot A02**

**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 33-7 - Slot A02
<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 33-7	<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 33-7 - Slot A02			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,598,868.70000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,347,569.80000 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	314.11

<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	
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
529.07	11.97	314.11	526.17	28.91	-29.83	3.00	3.00	0.00	314.11	
6,710.09	11.97	314.11	6,572.75	921.30	-950.46	0.00	0.00	0.00	0.00	
7,308.69	0.00	0.00	7,167.00	964.66	-995.20	2.00	-2.00	0.00	180.00	
7,408.69	0.00	0.00	7,267.00	964.66	-995.20	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,158.69	0.00	0.00	10,017.00	964.66	-995.20	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 33-7 - Slot A02
<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 33-7	<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	1,598,868.70000	2,347,569.80000	39.45488	-107.81084	
130.00	0.00	0.00	130.00	0.00	0.00	1,598,868.70000	2,347,569.80000	39.45488	-107.81084	
Start Build 3.00										
200.00	2.10	314.11	199.98	0.89	-0.92	1,598,869.61584	2,347,568.90204	39.45489	-107.81084	
400.00	8.10	314.11	399.10	13.26	-13.68	1,598,882.30433	2,347,556.46127	39.45492	-107.81089	
529.07	11.97	314.11	526.17	28.91	-29.83	1,598,898.36074	2,347,540.71832	39.45496	-107.81095	
Hold 11.97° Inc, 314.11° Az										
600.00	11.97	314.11	595.56	39.15	-40.39	1,598,908.86673	2,347,530.41743	39.45499	-107.81098	
800.00	11.97	314.11	791.21	68.03	-70.18	1,598,938.48864	2,347,501.37382	39.45507	-107.81109	
1,000.00	11.97	314.11	986.86	96.90	-99.97	1,598,968.11055	2,347,472.33021	39.45515	-107.81119	
1,200.00	11.97	314.11	1,182.51	125.78	-129.76	1,598,997.73246	2,347,443.28661	39.45523	-107.81130	
1,320.10	11.97	314.11	1,300.00	143.12	-147.65	1,599,015.52090	2,347,425.84544	39.45528	-107.81136	
9 5/8"										
1,400.00	11.97	314.11	1,378.16	154.65	-159.55	1,599,027.35436	2,347,414.24300	39.45531	-107.81141	
1,600.00	11.97	314.11	1,573.81	183.53	-189.34	1,599,056.97626	2,347,385.19939	39.45539	-107.81151	
1,800.00	11.97	314.11	1,769.46	212.40	-219.13	1,599,086.59817	2,347,356.15578	39.45547	-107.81162	
2,000.00	11.97	314.11	1,965.11	241.28	-248.92	1,599,116.22007	2,347,327.11217	39.45555	-107.81172	
2,200.00	11.97	314.11	2,160.76	270.15	-278.70	1,599,145.84198	2,347,298.06856	39.45563	-107.81183	
2,400.00	11.97	314.11	2,356.41	299.03	-308.49	1,599,175.46389	2,347,269.02495	39.45570	-107.81193	
2,600.00	11.97	314.11	2,552.06	327.90	-338.28	1,599,205.08579	2,347,239.98134	39.45578	-107.81204	
2,800.00	11.97	314.11	2,747.71	356.78	-368.07	1,599,234.70770	2,347,210.93773	39.45586	-107.81214	
3,000.00	11.97	314.11	2,943.36	385.65	-397.86	1,599,264.32961	2,347,181.89413	39.45594	-107.81225	
3,200.00	11.97	314.11	3,139.01	414.53	-427.65	1,599,293.95152	2,347,152.85052	39.45602	-107.81236	
3,400.00	11.97	314.11	3,334.66	443.40	-457.44	1,599,323.57342	2,347,123.80691	39.45610	-107.81246	
3,600.00	11.97	314.11	3,530.31	472.28	-487.23	1,599,353.19533	2,347,094.76331	39.45618	-107.81257	
3,800.00	11.97	314.11	3,725.96	501.15	-517.02	1,599,382.81724	2,347,065.71970	39.45626	-107.81267	
3,870.58	11.97	314.11	3,795.00	511.34	-527.53	1,599,393.27055	2,347,055.47046	39.45629	-107.81271	
Top of "G" Sand										
3,972.80	11.97	314.11	3,895.00	526.10	-542.75	1,599,408.41082	2,347,040.62577	39.45633	-107.81276	
Base of "G" Sand										
4,000.00	11.97	314.11	3,921.61	530.03	-546.81	1,599,412.43914	2,347,036.67609	39.45634	-107.81278	
4,200.00	11.97	314.11	4,117.26	558.90	-576.59	1,599,442.06104	2,347,007.63248	39.45642	-107.81288	
4,400.00	11.97	314.11	4,312.91	587.78	-606.38	1,599,471.68295	2,346,978.58887	39.45650	-107.81299	
4,600.00	11.97	314.11	4,508.56	616.65	-636.17	1,599,501.30486	2,346,949.54526	39.45658	-107.81309	
4,800.00	11.97	314.11	4,704.21	645.53	-665.96	1,599,530.92676	2,346,920.50165	39.45666	-107.81320	
5,000.00	11.97	314.11	4,899.86	674.40	-695.75	1,599,560.54867	2,346,891.45804	39.45674	-107.81330	
5,200.00	11.97	314.11	5,095.51	703.28	-725.54	1,599,590.17058	2,346,862.41443	39.45681	-107.81341	
5,400.00	11.97	314.11	5,291.16	732.15	-755.33	1,599,619.79248	2,346,833.37082	39.45689	-107.81352	
5,600.00	11.97	314.11	5,486.81	761.03	-785.12	1,599,649.41439	2,346,804.32721	39.45697	-107.81362	
5,800.00	11.97	314.11	5,682.46	789.90	-814.91	1,599,679.03630	2,346,775.28362	39.45705	-107.81373	
6,000.00	11.97	314.11	5,878.11	818.78	-844.70	1,599,708.65821	2,346,746.24001	39.45713	-107.81383	
6,200.00	11.97	314.11	6,073.75	847.65	-874.48	1,599,738.28011	2,346,717.19640	39.45721	-107.81394	
6,379.14	11.97	314.11	6,249.00	873.52	-901.17	1,599,764.81270	2,346,691.18180	39.45728	-107.81403	
Mesaverde										
6,400.00	11.97	314.11	6,269.40	876.53	-904.27	1,599,767.90202	2,346,688.15279	39.45729	-107.81404	
6,600.00	11.97	314.11	6,465.05	905.40	-934.06	1,599,797.52393	2,346,659.10918	39.45737	-107.81415	
6,710.09	11.97	314.11	6,572.75	921.30	-950.46	1,599,813.82890	2,346,643.12253	39.45741	-107.81421	
Begin Drop -2.00°/100										
6,800.00	10.17	314.11	6,660.98	933.31	-962.86	1,599,826.15818	2,346,631.03393	39.45745	-107.81425	
7,000.00	6.17	314.11	6,858.91	953.10	-983.27	1,599,846.45695	2,346,611.13145	39.45750	-107.81432	
7,200.00	2.17	314.11	7,058.34	963.23	-993.72	1,599,856.84809	2,346,600.94317	39.45753	-107.81436	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 33-7 - Slot A02
<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 33-7	<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
7,308.69	0.00	0.00	7,167.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>Vertical</b>									
7,400.00	0.00	0.00	7,258.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
7,408.69	0.00	0.00	7,267.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>Top Gas - Approx. Top Gas</b>									
7,600.00	0.00	0.00	7,458.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
7,800.00	0.00	0.00	7,658.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
8,000.00	0.00	0.00	7,858.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
8,200.00	0.00	0.00	8,058.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
8,400.00	0.00	0.00	8,258.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
8,600.00	0.00	0.00	8,458.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
8,800.00	0.00	0.00	8,658.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,000.00	0.00	0.00	8,858.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,149.69	0.00	0.00	9,008.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>Cameo Coals</b>									
9,200.00	0.00	0.00	9,058.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,400.00	0.00	0.00	9,258.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,600.00	0.00	0.00	9,458.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,800.00	0.00	0.00	9,658.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
9,842.69	0.00	0.00	9,701.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>Coal D</b>									
10,000.00	0.00	0.00	9,858.31	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
10,008.69	0.00	0.00	9,867.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>Rollins SS</b>									
10,157.50	0.00	0.00	10,015.81	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>TD at 10158.69</b>									
10,158.69	0.00	0.00	10,017.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437
<b>TD</b>									

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	7,267.00	964.66	-995.20	1,599,858.32000	2,346,599.50000	39.45753	-107.81437

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,320.10	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 33-7 - Slot A02
<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 33-7	<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)
	3,870.58	3,795.00	Top of "G" Sand			
	3,972.80	3,895.00	Base of "G" Sand			
	6,379.14	6,249.00	Mesaverde			
	7,408.69	7,267.00	Approx. Top Gas			
	9,149.69	9,008.00	Cameo Coals			
	9,842.69	9,701.00	Coal D			
	10,008.69	9,867.00	Rollins SS			
	10,158.69	10,017.00	TD			

Plan Annotations					
	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
			+N/-S (usft)	+E/-W (usft)	Comment
	130.00	130.00	0.00	0.00	Start Build 3.00
	529.07	526.17	28.91	-29.83	Hold 11.97° Inc, 314.11° Az
	6,710.09	6,572.75	921.30	-950.46	Begin Drop -2.00°/100
	7,308.69	7,167.00	964.66	-995.20	Vertical
	7,408.69	7,267.00	964.66	-995.20	Top Gas
	10,157.50	10,015.81	964.66	-995.20	TD at 10158.69