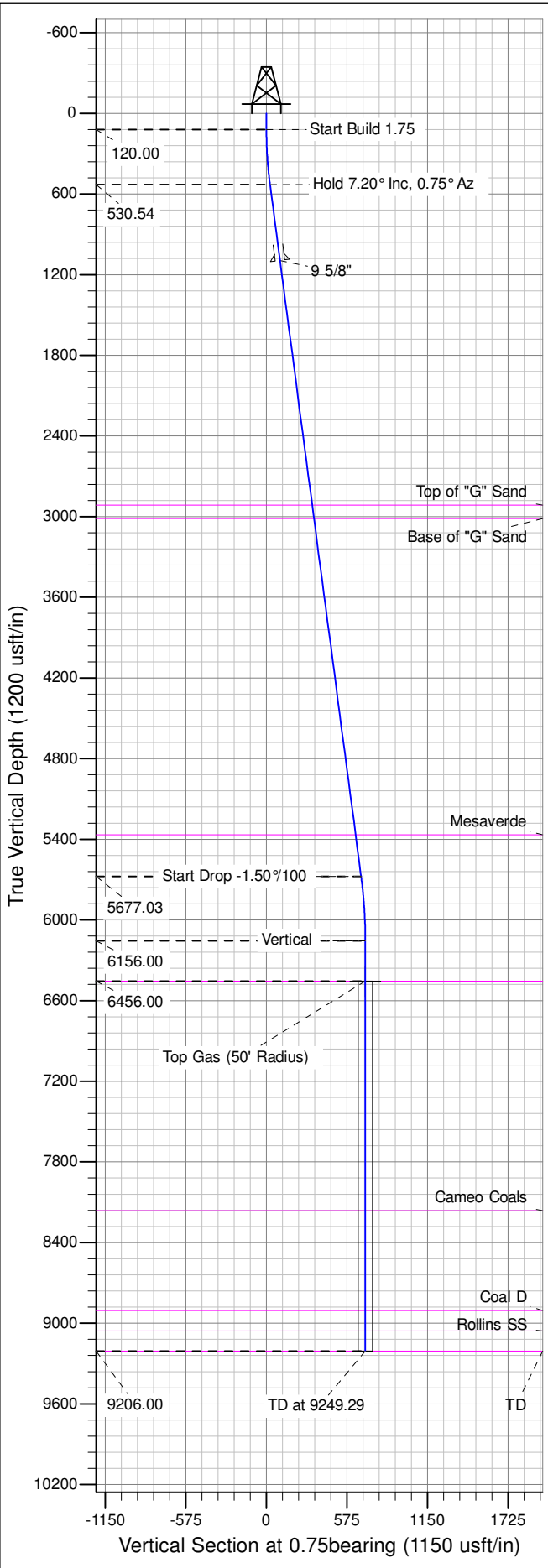
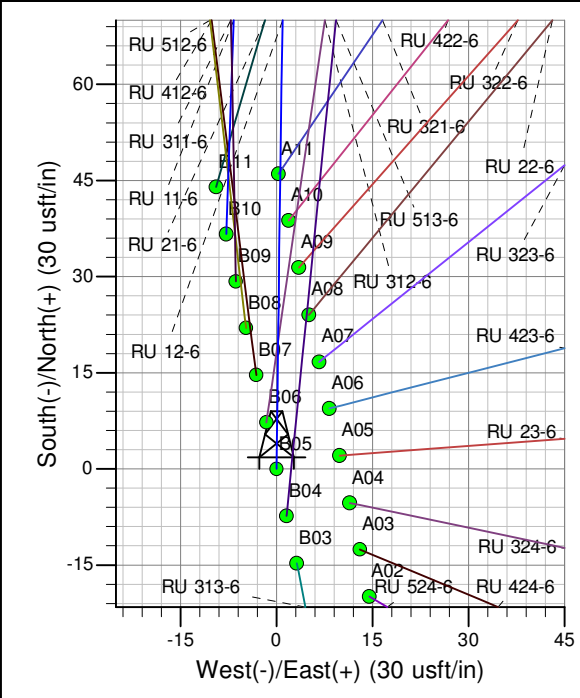
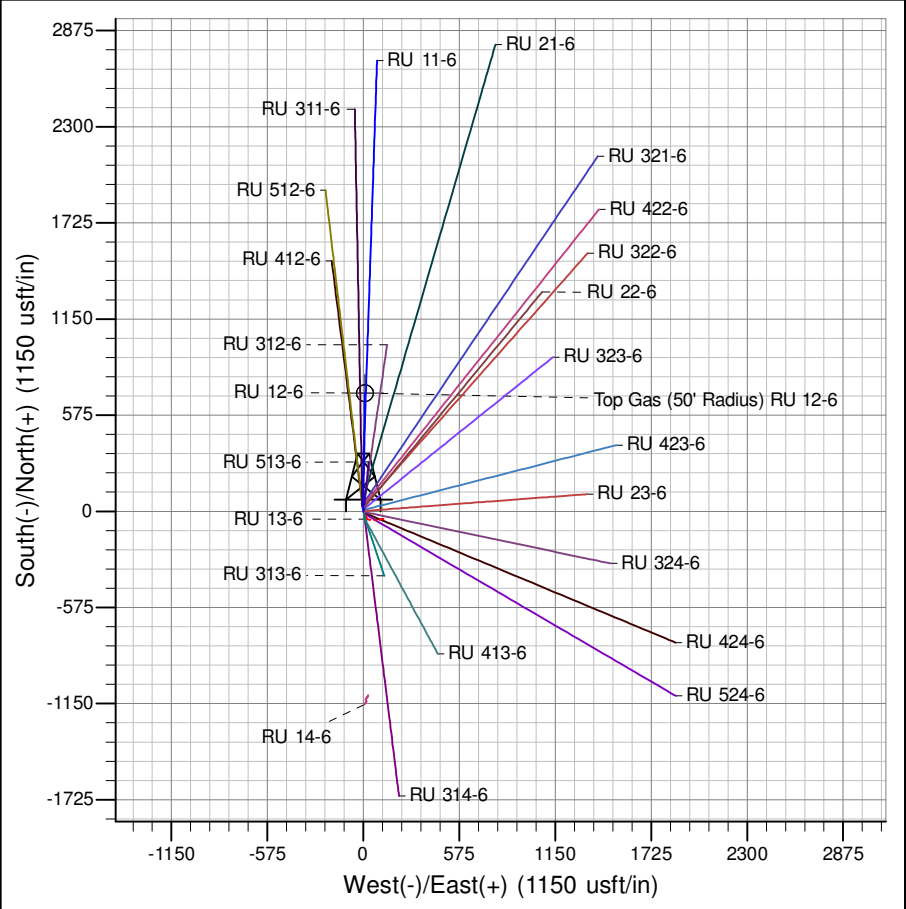




Well Name: RU 12-6  
Surface Location: RU 13-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 6985.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1603433.10000 2343745.90000 39.467142 -107.824790 B05  
KELLY BUSHING @ 7011.00usft (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	1.75
530.54	531.63	7.20	0.75	25.84	0.34	25.84	25.84	Hold 7.20° Inc, 0.75° Az	
5677.03	5719.06	7.20	0.75	676.25	8.84	676.31	676.31	Start Drop -1.50°/100	
6156.00	6199.29	0.00	0.00	706.40	9.23	706.46	706.46	Vertical	
6456.00	6499.29	0.00	0.00	706.40	9.23	706.46	706.46	Top Gas	
9206.00	9249.29	0.00	0.00	706.40	9.23	706.46	706.46	TD at 9249.29	



Azimuths to True North  
Magnetic North: 9.87°

Magnetic Field  
Strength: 51936.6snT  
Dip Angle: 65.66°  
Date: 7/17/2014  
Model: IGRF2010

Project: RU 06-07S-093W  
Site: RU 13-6 Pad  
Well: RU 12-6  
Design #1 17Jul14 mab

# **PICEANCE VLY NAD 83**

**RU 06-07S-093W**

**RU 13-6 Pad**

**RU 12-6 - Slot B05**

**Wellbore #1**

**Plan: Design #1 17Jul14 mab**

## **Standard Planning Report - Geographic**

**16 September, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 12-6 - Slot B05
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 13-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 12-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 17Jul14 mab		

<b>Project</b>	RU 06-07S-093W		
<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 13-6 Pad		
<b>Site Position:</b>		<b>Northing:</b>	1,603,405.40000 usft
<b>From:</b>	Map	<b>Easting:</b>	2,343,761.30000 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	39.467067
		<b>Longitude:</b>	-107.824733
		<b>Grid Convergence:</b>	-1.47 °

<b>Well</b>	RU 12-6 - Slot B05		
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b> 1,603,433.10000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b> 2,343,745.90000 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	0.00 usft
		<b>Latitude:</b>	39.467142
		<b>Longitude:</b>	-107.824790
		<b>Ground Level:</b>	6,985.00 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>
	IGRF2010	7/17/2014	9.87	65.66	51,937

<b>Design</b>	Design #1 17Jul14 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	0.75

<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	
531.63	7.20	0.75	530.54	25.84	0.34	1.75	1.75	0.00	0.75	
5,719.06	7.20	0.75	5,677.03	676.25	8.84	0.00	0.00	0.00	0.00	
6,199.29	0.00	0.00	6,156.00	706.40	9.23	1.50	-1.50	0.00	180.00	
6,499.29	0.00	0.00	6,456.00	706.40	9.23	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,249.29	0.00	0.00	9,206.00	706.40	9.23	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 12-6 - Slot B05
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 13-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 12-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 17Jul14 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	1,603,433.10000	2,343,745.90000	39.467142	-107.824790	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,433.10000	2,343,745.90000	39.467142	-107.824790	
Start Build 1.75										
200.00	1.40	0.75	199.99	0.98	0.01	1,603,434.07656	2,343,745.93777	39.467145	-107.824790	
400.00	4.90	0.75	399.66	11.96	0.16	1,603,445.05620	2,343,746.36239	39.467175	-107.824789	
531.63	7.20	0.75	530.54	25.84	0.34	1,603,458.92115	2,343,746.89861	39.467213	-107.824789	
Hold 7.20° Inc, 0.75° Az										
600.00	7.20	0.75	598.38	34.41	0.45	1,603,467.48798	2,343,747.22992	39.467237	-107.824788	
800.00	7.20	0.75	796.80	59.49	0.78	1,603,492.54677	2,343,748.19904	39.467306	-107.824787	
1,000.00	7.20	0.75	995.22	84.57	1.10	1,603,517.60556	2,343,749.16817	39.467375	-107.824786	
1,100.00	7.20	0.75	1,094.43	97.10	1.27	1,603,530.13496	2,343,749.65273	39.467409	-107.824785	
9 5/8"										
1,200.00	7.20	0.75	1,193.64	109.64	1.43	1,603,542.66435	2,343,750.13729	39.467443	-107.824785	
1,400.00	7.20	0.75	1,392.06	134.72	1.76	1,603,567.72314	2,343,751.10642	39.467512	-107.824784	
1,600.00	7.20	0.75	1,590.48	159.79	2.09	1,603,592.78193	2,343,752.07554	39.467581	-107.824783	
1,800.00	7.20	0.75	1,788.91	184.87	2.42	1,603,617.84072	2,343,753.04467	39.467650	-107.824781	
2,000.00	7.20	0.75	1,987.33	209.95	2.74	1,603,642.89951	2,343,754.01379	39.467719	-107.824780	
2,200.00	7.20	0.75	2,185.75	235.02	3.07	1,603,667.95830	2,343,754.98292	39.467788	-107.824779	
2,400.00	7.20	0.75	2,384.17	260.10	3.40	1,603,693.01709	2,343,755.95204	39.467856	-107.824778	
2,600.00	7.20	0.75	2,582.59	285.18	3.73	1,603,718.07588	2,343,756.92116	39.467925	-107.824777	
2,800.00	7.20	0.75	2,781.01	310.25	4.05	1,603,743.13467	2,343,757.89029	39.467994	-107.824776	
2,935.05	7.20	0.75	2,915.00	327.19	4.27	1,603,760.05605	2,343,758.54471	39.468041	-107.824775	
Top of "G" Sand										
3,000.00	7.20	0.75	2,979.43	335.33	4.38	1,603,768.19346	2,343,758.85941	39.468063	-107.824774	
3,035.85	7.20	0.75	3,015.00	339.82	4.44	1,603,772.68512	2,343,759.03312	39.468075	-107.824774	
Base of "G" Sand										
3,200.00	7.20	0.75	3,177.86	360.41	4.71	1,603,793.25224	2,343,759.82854	39.468132	-107.824773	
3,400.00	7.20	0.75	3,376.28	385.48	5.04	1,603,818.31103	2,343,760.79766	39.468201	-107.824772	
3,600.00	7.20	0.75	3,574.70	410.56	5.36	1,603,843.36982	2,343,761.76679	39.468269	-107.824771	
3,800.00	7.20	0.75	3,773.12	435.64	5.69	1,603,868.42861	2,343,762.73591	39.468338	-107.824770	
4,000.00	7.20	0.75	3,971.54	460.71	6.02	1,603,893.48740	2,343,763.70504	39.468407	-107.824769	
4,200.00	7.20	0.75	4,169.96	485.79	6.35	1,603,918.54619	2,343,764.67416	39.468476	-107.824767	
4,400.00	7.20	0.75	4,368.38	510.87	6.67	1,603,943.60498	2,343,765.64328	39.468545	-107.824766	
4,600.00	7.20	0.75	4,566.81	535.94	7.00	1,603,968.66377	2,343,766.61241	39.468614	-107.824765	
4,800.00	7.20	0.75	4,765.23	561.02	7.33	1,603,993.72256	2,343,767.58153	39.468683	-107.824764	
5,000.00	7.20	0.75	4,963.65	586.09	7.66	1,604,018.78135	2,343,768.55066	39.468751	-107.824763	
5,200.00	7.20	0.75	5,162.07	611.17	7.99	1,604,043.84014	2,343,769.51978	39.468820	-107.824762	
5,400.00	7.20	0.75	5,360.49	636.25	8.31	1,604,068.89892	2,343,770.48891	39.468889	-107.824761	
5,405.55	7.20	0.75	5,366.00	636.94	8.32	1,604,069.59465	2,343,770.51581	39.468891	-107.824760	
Mesaverde										
5,600.00	7.20	0.75	5,558.91	661.32	8.64	1,604,093.95771	2,343,771.45803	39.468958	-107.824759	
5,719.06	7.20	0.75	5,677.03	676.25	8.84	1,604,108.87533	2,343,772.03496	39.468999	-107.824759	
Start Drop -1.50°/100										
5,800.00	5.99	0.75	5,757.44	685.55	8.96	1,604,118.16568	2,343,772.39425	39.469024	-107.824758	
6,000.00	2.99	0.75	5,956.80	701.20	9.16	1,604,133.80634	2,343,772.99914	39.469067	-107.824758	
6,199.29	0.00	0.00	6,156.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
Vertical										
6,200.00	0.00	0.00	6,156.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
6,400.00	0.00	0.00	6,356.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
6,499.29	0.00	0.00	6,456.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
Top Gas - Approx. Top Gas										
6,600.00	0.00	0.00	6,556.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 12-6 - Slot B05
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 13-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 12-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 17Jul14 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	6,756.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
7,000.00	0.00	0.00	6,956.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
7,200.00	0.00	0.00	7,156.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
7,400.00	0.00	0.00	7,356.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
7,600.00	0.00	0.00	7,556.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
7,800.00	0.00	0.00	7,756.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,000.00	0.00	0.00	7,956.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,200.00	0.00	0.00	8,156.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,207.29	0.00	0.00	8,164.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
Cameo Coals										
8,400.00	0.00	0.00	8,356.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,600.00	0.00	0.00	8,556.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,800.00	0.00	0.00	8,756.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
8,949.29	0.00	0.00	8,906.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
Coal D										
9,000.00	0.00	0.00	8,956.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
9,099.29	0.00	0.00	9,056.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
Rollins SS										
9,200.00	0.00	0.00	9,156.71	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
9,249.29	0.00	0.00	9,206.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	
TD at 9249.29 - 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	6,456.00	706.40	9.23	1,604,139.00000	2,343,773.20000	39.469082	-107.824757	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (in)	Hole Diameter (in)
1,100.00	1,094.43	9 5/8"			9.625	13.500

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 12-6 - Slot B05
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 13-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 12-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 17Jul14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,935.05	2,915.00	Top of "G" Sand				
3,035.85	3,015.00	Base of "G" Sand				
5,405.55	5,366.00	Mesaverde				
6,499.29	6,456.00	Approx. Top Gas				
8,207.29	8,164.00	Cameo Coals				
8,949.29	8,906.00	Coal D				
9,099.29	9,056.00	Rollins SS				
9,249.29	9,206.00	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 1.75	
531.63	530.54	25.84	0.34	Hold 7.20° Inc, 0.75° Az	
5,719.06	5,677.03	676.25	8.84	Start Drop -1.50°/100	
6,199.29	6,156.00	706.40	9.23	Vertical	
6,499.29	6,456.00	706.40	9.23	Top Gas	
9,249.29	9,206.00	706.40	9.23	TD at 9249.29	