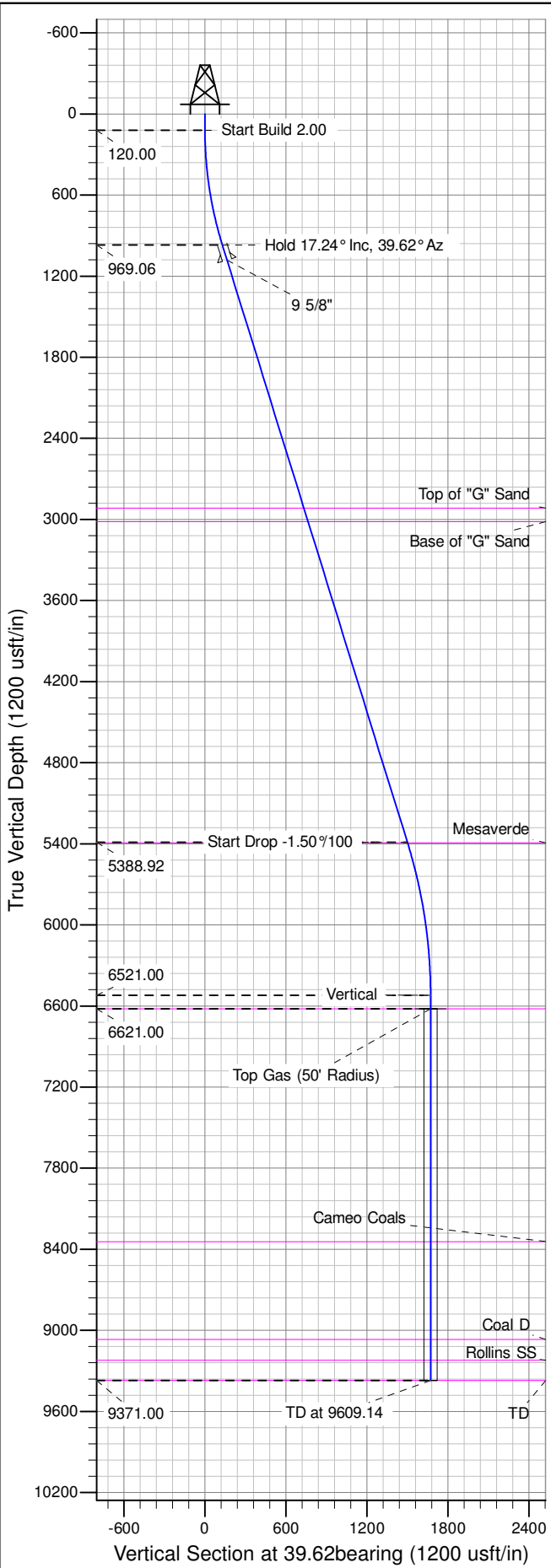
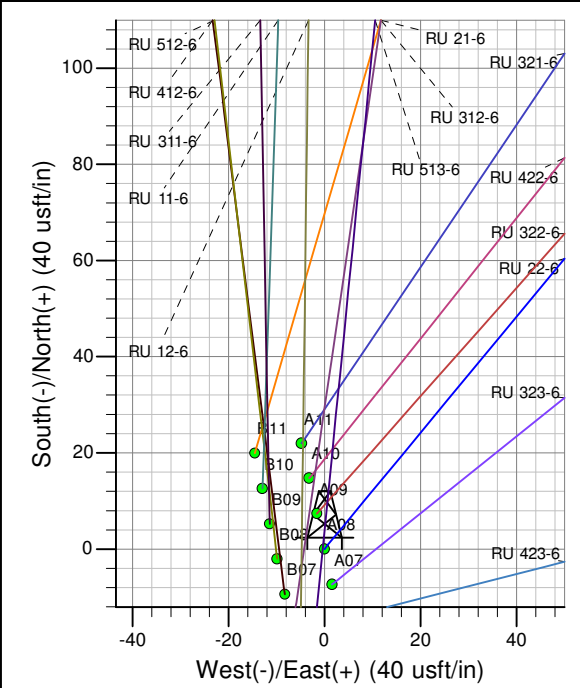
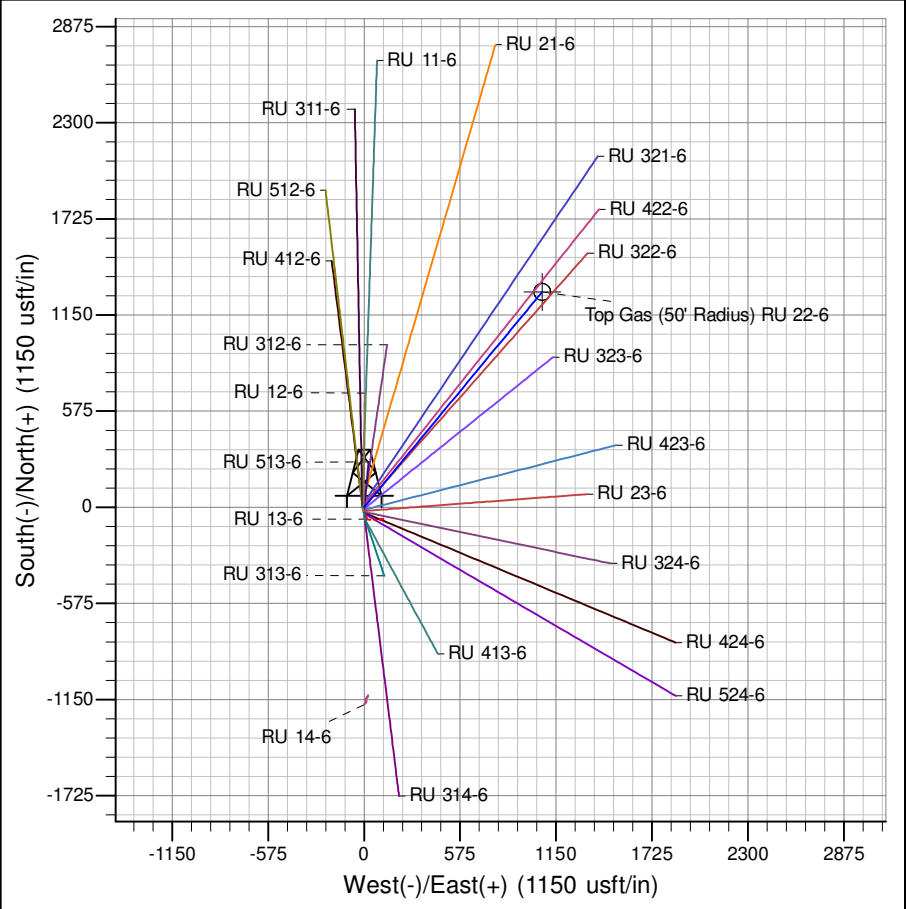




Well Name: RU 22-6  
Surface Location: RU 13-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 6985.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1603457.00000 2343751.60000 39.467208 -107.824772 A08  
KELLY BUSHING @ 7011.00usft (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 2.00	2.00
969.06	982.01	17.24	39.62	99.15	82.08	128.71	128.71	Hold 17.24° Inc, 39.62° Az	
5388.92	5609.79	17.24	39.62	1155.66	956.71	1500.28	1500.28	Start Drop -1.50%/100	
6521.00	6759.14	0.00	0.00	1287.86	1066.14	1671.90	1671.90	Vertical	
6621.00	6859.14	0.00	0.00	1287.86	1066.14	1671.90	1671.90	Top Gas	
9371.00	9609.14	0.00	0.00	1287.86	1066.14	1671.90	1671.90	TD at 9609.14	



Azimuths to True North  
Magnetic North: 9.87°

Magnetic Field  
Strength: 51936.7snT  
Dip Angle: 65.66°  
Date: 7/17/2014  
Model: IGRF2010

Project: RU 06-07S-093W  
Site: RU 13-6 Pad  
Well: RU 22-6  
Design #1 17Jul14 mab

# **PICEANCE VLY NAD 83**

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

**RU 13-6 Pad**

**RU 22-6 - Slot A08**

**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 22-6 - Slot A08
<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 22-6	<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>Latitude:</b> 39.467067
<b>From:</b> Map		<b>Easting:</b>	2,343,761.30000 usft	<b>Longitude:</b> -107.824733
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.47 °

Well	RU 22-6 - Slot A08					
Well Position	+N/-S	0.00 usft	Northing:	1,603,457.00000 usft	Latitude:	39.467208
	+E/-W	0.00 usft	Easting:	2,343,751.60000 usft	Longitude:	-107.824772
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	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	39.62

<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	
982.01	17.24	39.62	969.06	99.15	82.08	2.00	2.00	0.00	39.62	
5,609.79	17.24	39.62	5,388.92	1,155.66	956.71	0.00	0.00	0.00	0.00	
6,759.14	0.00	0.00	6,521.00	1,287.86	1,066.14	1.50	-1.50	0.00	180.00	
6,859.14	0.00	0.00	6,621.00	1,287.86	1,066.14	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,609.14	0.00	0.00	9,371.00	1,287.86	1,066.14	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 22-6 - Slot A08
<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 22-6	<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	
0.00	0.00	0.00	0.00	0.00	0.00	1,603,457.00000	2,343,751.60000	39.467208	-107.824772	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,457.00000	2,343,751.60000	39.467208	-107.824772	
<b>Start Build 2.00</b>										
200.00	1.60	39.62	199.99	0.86	0.71	1,603,457.84183	2,343,752.33400	39.467211	-107.824769	
400.00	5.60	39.62	399.55	10.53	8.72	1,603,467.30488	2,343,760.58498	39.467237	-107.824741	
600.00	9.60	39.62	597.76	30.90	25.58	1,603,487.23703	2,343,777.96412	39.467293	-107.824681	
800.00	13.60	39.62	793.63	61.87	51.22	1,603,517.54116	2,343,804.38674	39.467378	-107.824591	
982.01	17.24	39.62	969.06	99.15	82.08	1,603,554.00944	2,343,836.18398	39.467481	-107.824481	
<b>Hold 17.24° Inc, 39.62° Az</b>										
1,000.00	17.24	39.62	986.24	103.25	85.48	1,603,558.02898	2,343,839.68867	39.467492	-107.824469	
1,100.00	17.24	39.62	1,081.75	126.08	104.38	1,603,580.36674	2,343,859.16531	39.467554	-107.824402	
<b>9 5/8"</b>										
1,200.00	17.24	39.62	1,177.26	148.91	123.28	1,603,602.70451	2,343,878.64194	39.467617	-107.824335	
1,400.00	17.24	39.62	1,368.27	194.57	161.08	1,603,647.38005	2,343,917.59521	39.467743	-107.824201	
1,600.00	17.24	39.62	1,559.29	240.23	198.88	1,603,692.05558	2,343,956.54847	39.467868	-107.824068	
1,800.00	17.24	39.62	1,750.30	285.89	236.67	1,603,736.73112	2,343,995.50174	39.467993	-107.823934	
2,000.00	17.24	39.62	1,941.31	331.55	274.47	1,603,781.40665	2,344,034.45499	39.468119	-107.823800	
2,200.00	17.24	39.62	2,132.33	377.21	312.27	1,603,826.08217	2,344,073.40826	39.468244	-107.823666	
2,400.00	17.24	39.62	2,323.34	422.87	350.07	1,603,870.75771	2,344,112.36152	39.468369	-107.823532	
2,600.00	17.24	39.62	2,514.36	468.53	387.87	1,603,915.43324	2,344,151.31479	39.468495	-107.823398	
2,800.00	17.24	39.62	2,705.37	514.19	425.67	1,603,960.10878	2,344,190.26805	39.468620	-107.823264	
3,000.00	17.24	39.62	2,896.39	559.85	463.47	1,604,004.78431	2,344,229.22132	39.468745	-107.823130	
3,020.54	17.24	39.62	2,916.00	564.54	467.35	1,604,009.37198	2,344,233.22138	39.468758	-107.823117	
<b>Top of "G" Sand</b>										
3,125.24	17.24	39.62	3,016.00	588.44	487.14	1,604,032.76057	2,344,253.61424	39.468824	-107.823046	
<b>Base of "G" Sand</b>										
3,200.00	17.24	39.62	3,087.40	605.51	501.27	1,604,049.45985	2,344,268.17458	39.468871	-107.822996	
3,400.00	17.24	39.62	3,278.41	651.17	539.07	1,604,094.13538	2,344,307.12785	39.468996	-107.822863	
3,600.00	17.24	39.62	3,469.43	696.83	576.87	1,604,138.81092	2,344,346.08112	39.469121	-107.822729	
3,800.00	17.24	39.62	3,660.44	742.49	614.66	1,604,183.48644	2,344,385.03438	39.469247	-107.822595	
4,000.00	17.24	39.62	3,851.46	788.15	652.46	1,604,228.16198	2,344,423.98764	39.469372	-107.822461	
4,200.00	17.24	39.62	4,042.47	833.81	690.26	1,604,272.83751	2,344,462.94090	39.469497	-107.822327	
4,400.00	17.24	39.62	4,233.48	879.47	728.06	1,604,317.51305	2,344,501.89417	39.469623	-107.822193	
4,600.00	17.24	39.62	4,424.50	925.13	765.86	1,604,362.18858	2,344,540.84743	39.469748	-107.822059	
4,800.00	17.24	39.62	4,615.51	970.79	803.66	1,604,406.86411	2,344,579.80070	39.469873	-107.821925	
5,000.00	17.24	39.62	4,806.53	1,016.45	841.46	1,604,451.53965	2,344,618.75396	39.469999	-107.821791	
5,200.00	17.24	39.62	4,997.54	1,062.11	879.26	1,604,496.21518	2,344,657.70723	39.470124	-107.821658	
5,400.00	17.24	39.62	5,188.56	1,107.77	917.06	1,604,540.89072	2,344,696.66050	39.470250	-107.821524	
5,600.00	17.24	39.62	5,379.57	1,153.43	954.86	1,604,585.56624	2,344,735.61376	39.470375	-107.821390	
5,609.79	17.24	39.62	5,388.92	1,155.66	956.71	1,604,587.75408	2,344,737.52137	39.470381	-107.821383	
<b>Start Drop -1.50°/100</b>										
5,614.06	17.18	39.62	5,393.00	1,156.63	957.51	1,604,588.70548	2,344,738.35091	39.470384	-107.821380	
<b>Mesaverde</b>										
5,800.00	14.39	39.62	5,571.91	1,195.58	989.76	1,604,626.81601	2,344,771.58004	39.470491	-107.821266	
6,000.00	11.39	39.62	5,766.85	1,229.94	1,018.20	1,604,660.43139	2,344,800.88980	39.470585	-107.821165	
6,200.00	8.39	39.62	5,963.86	1,256.39	1,040.09	1,604,686.31124	2,344,823.45481	39.470658	-107.821088	
6,400.00	5.39	39.62	6,162.39	1,274.86	1,055.39	1,604,704.38460	2,344,839.21325	39.470708	-107.821034	
6,600.00	2.39	39.62	6,361.91	1,285.30	1,064.03	1,604,714.60193	2,344,848.12190	39.470737	-107.821003	
6,759.14	0.00	0.00	6,521.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996	
<b>Vertical</b>										
6,800.00	0.00	0.00	6,561.86	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 22-6 - Slot A08
<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 22-6	<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
6,859.14	0.00	0.00	6,621.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
<b>Top Gas - Approx. Top Gas</b>									
7,000.00	0.00	0.00	6,761.86	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
7,200.00	0.00	0.00	6,961.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
7,400.00	0.00	0.00	7,161.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
7,600.00	0.00	0.00	7,361.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
7,800.00	0.00	0.00	7,561.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
8,000.00	0.00	0.00	7,761.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
8,200.00	0.00	0.00	7,961.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
8,400.00	0.00	0.00	8,161.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
8,582.14	0.00	0.00	8,344.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
<b>Cameo Coals</b>									
8,600.00	0.00	0.00	8,361.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
8,800.00	0.00	0.00	8,561.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
9,000.00	0.00	0.00	8,761.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
9,200.00	0.00	0.00	8,961.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
9,305.14	0.00	0.00	9,067.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
<b>Coal D</b>									
9,400.00	0.00	0.00	9,161.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
9,459.14	0.00	0.00	9,221.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
<b>Rollins SS</b>									
9,600.00	0.00	0.00	9,361.87	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
9,609.14	0.00	0.00	9,371.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
<b>TD at 9609.14 - 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
- hit/miss target									
- Shape									
Top Gas (50' Radius) RL	0.00	0.00	6,621.00	1,287.86	1,066.14	1,604,717.10000	2,344,850.30000	39.470744	-107.820996
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,081.75	9 5/8"	9.625	13.500	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 22-6 - Slot A08
<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 22-6	<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)
	3,020.54	2,916.00	Top of "G" Sand			
	3,125.24	3,016.00	Base of "G" Sand			
	5,614.06	5,393.00	Mesaverde			
	6,859.14	6,621.00	Approx. Top Gas			
	8,582.14	8,344.00	Cameo Coals			
	9,305.14	9,067.00	Coal D			
	9,459.14	9,221.00	Rollins SS			
	9,609.14	9,371.00	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 2.00
	982.01	969.06	99.15	82.08	Hold 17.24° Inc, 39.62° Az
	5,609.79	5,388.92	1,155.66	956.71	Start Drop -1.50°/100
	6,759.14	6,521.00	1,287.86	1,066.14	Vertical
	6,859.14	6,621.00	1,287.86	1,066.14	Top Gas
	9,609.14	9,371.00	1,287.86	1,066.14	TD at 9609.14