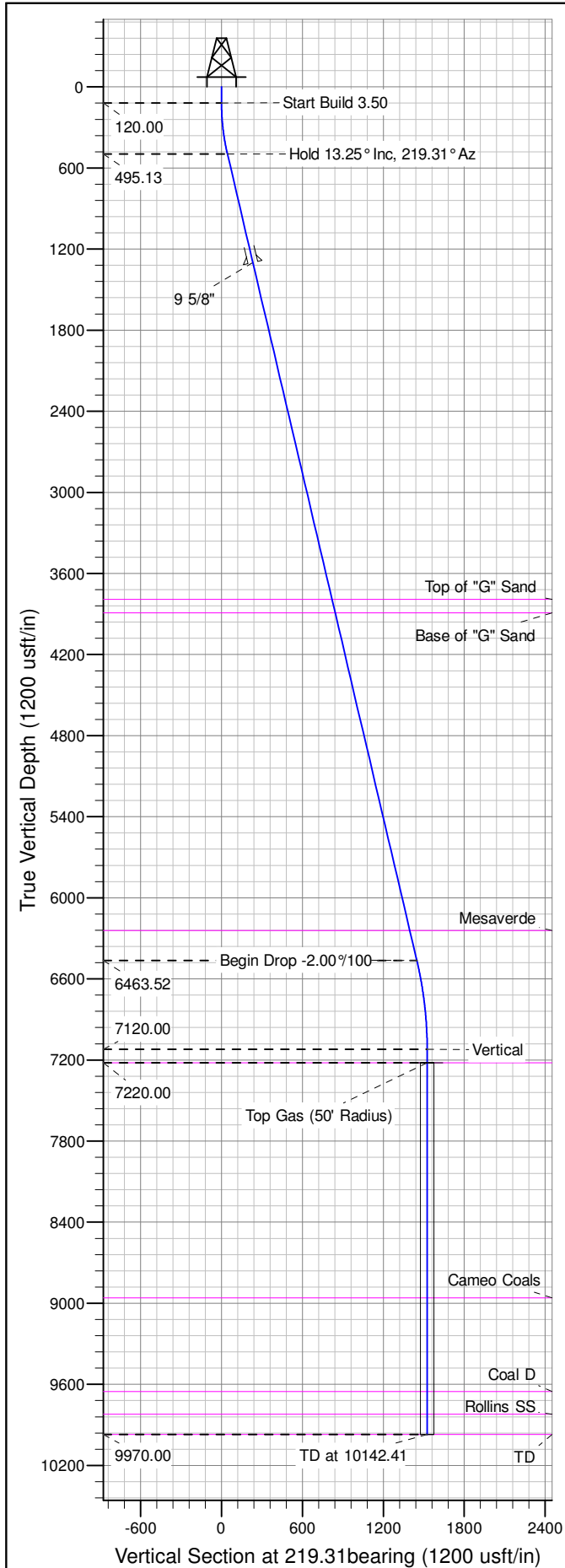
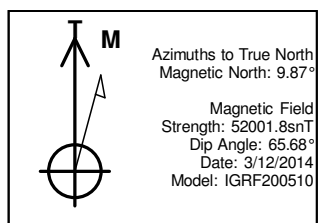
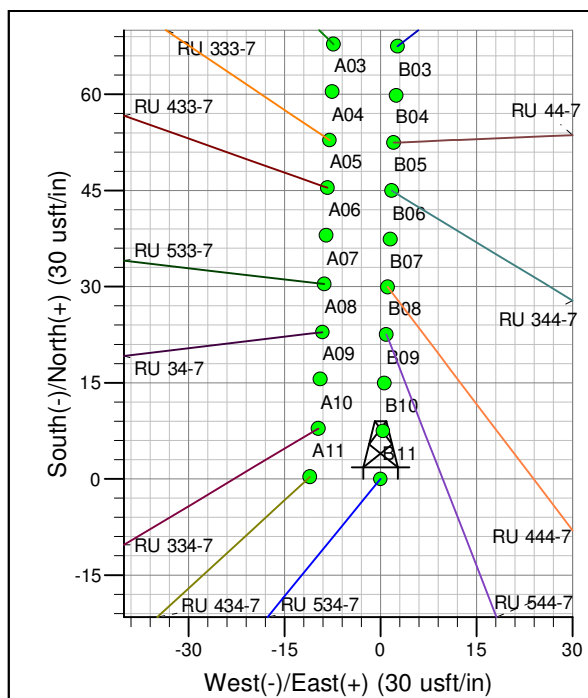
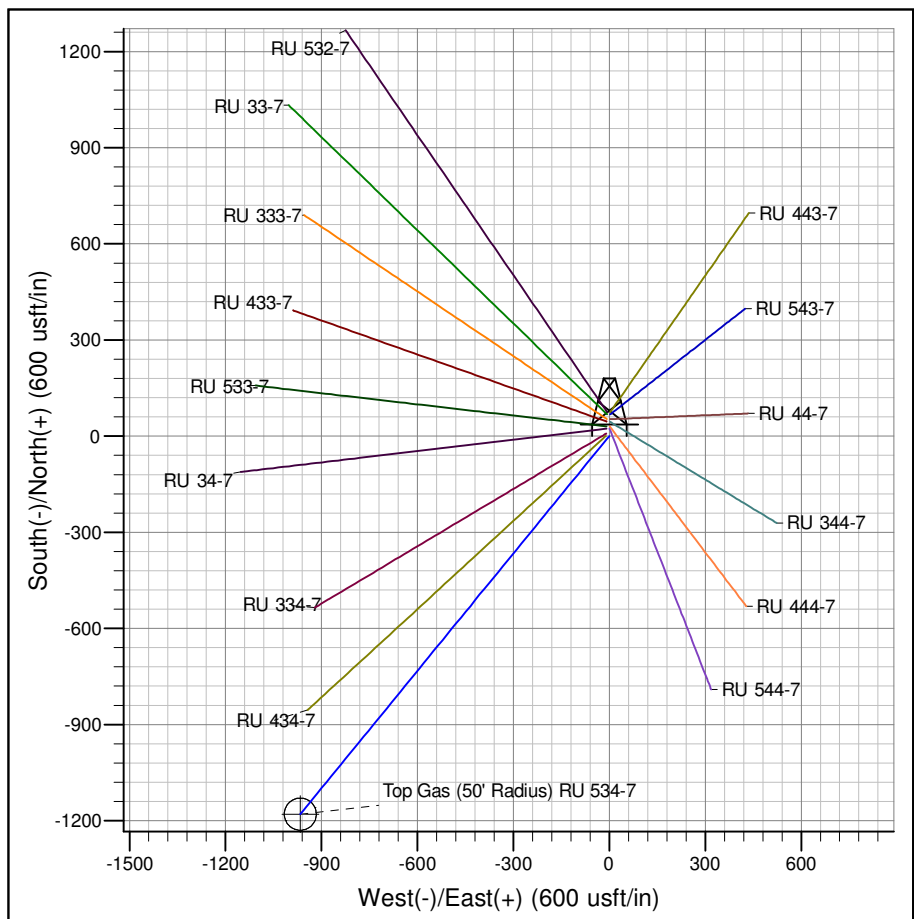




Well Name: RU 534-7  
Surface Location: RU 44-7 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7917.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1598800.70000 2347575.40000 39.45470 -107.81081 B11  
KELLY BUSHING @ 7943.00usft (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 3.50		
495.13	498.49	13.25	219.31	-33.70	-27.60	43.56	43.56	Hold 13.25° Inc, 219.31° Az		
6463.52	6630.05	13.25	219.31	-1120.82	-917.76	1448.63	1448.63	Begin Drop -2.00%/100		
7120.00	7292.41	0.00	0.00	-1179.80	-966.05	1524.86	1524.86	Vertical		
7220.00	7392.41	0.00	0.00	-1179.80	-966.05	1524.86	1524.86	Top Gas		
9970.00	10142.41	0.00	0.00	-1179.80	-966.05	1524.86	1524.86	TD at 10142.41		



Project: RU 07-07S-093W  
Site: RU 44-7 Pad  
Well: RU 534-7  
Design #2 28May14 mab

# **PICEANCE VLY NAD 83**

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

**RU 44-7 Pad**

**RU 534-7 - Slot B11**

**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 534-7 - Slot B11
<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 534-7	<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 534-7 - Slot B11			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,598,800.70000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,347,575.40000 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	219.31

<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	
498.49	13.25	219.31	495.13	-33.70	-27.60	3.50	3.50	0.00	219.31	
6,630.05	13.25	219.31	6,463.52	-1,120.82	-917.76	0.00	0.00	0.00	0.00	
7,292.41	0.00	0.00	7,120.00	-1,179.80	-966.05	2.00	-2.00	0.00	180.00	
7,392.41	0.00	0.00	7,220.00	-1,179.80	-966.05	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,142.41	0.00	0.00	9,970.00	-1,179.80	-966.05	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 534-7 - Slot B11
<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 534-7	<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	1,598,800.70000	2,347,575.40000	39.45470	-107.81081	
120.00	0.00	0.00	120.00	0.00	0.00	1,598,800.70000	2,347,575.40000	39.45470	-107.81081	
Start Build 3.50										
200.00	2.80	219.31	199.97	-1.51	-1.24	1,598,799.21991	2,347,574.12384	39.45469	-107.81082	
400.00	9.80	219.31	398.64	-18.48	-15.13	1,598,782.60953	2,347,559.80191	39.45465	-107.81087	
498.49	13.25	219.31	495.13	-33.70	-27.60	1,598,767.71082	2,347,546.95584	39.45460	-107.81091	
Hold 13.25° Inc, 219.31° Az										
600.00	13.25	219.31	593.94	-51.70	-42.33	1,598,750.09501	2,347,531.76701	39.45456	-107.81096	
800.00	13.25	219.31	788.61	-87.16	-71.37	1,598,715.38669	2,347,501.84054	39.45446	-107.81107	
1,000.00	13.25	219.31	983.29	-122.62	-100.40	1,598,680.67836	2,347,471.91408	39.45436	-107.81117	
1,200.00	13.25	219.31	1,177.97	-158.08	-129.44	1,598,645.97003	2,347,441.98762	39.45426	-107.81127	
1,325.37	13.25	219.31	1,300.00	-180.31	-147.64	1,598,624.21382	2,347,423.22881	39.45420	-107.81134	
9 5/8"										
1,400.00	13.25	219.31	1,372.65	-193.54	-158.48	1,598,611.26172	2,347,412.06115	39.45417	-107.81138	
1,600.00	13.25	219.31	1,567.33	-229.00	-187.51	1,598,576.55339	2,347,382.13469	39.45407	-107.81148	
1,800.00	13.25	219.31	1,762.00	-264.46	-216.55	1,598,541.84506	2,347,352.20822	39.45397	-107.81158	
2,000.00	13.25	219.31	1,956.68	-299.92	-245.58	1,598,507.13674	2,347,322.28176	39.45387	-107.81168	
2,200.00	13.25	219.31	2,151.36	-335.38	-274.62	1,598,472.42841	2,347,292.35530	39.45378	-107.81179	
2,400.00	13.25	219.31	2,346.04	-370.84	-303.65	1,598,437.72009	2,347,262.42883	39.45368	-107.81189	
2,600.00	13.25	219.31	2,540.72	-406.30	-332.69	1,598,403.01176	2,347,232.50237	39.45358	-107.81199	
2,800.00	13.25	219.31	2,735.39	-441.76	-361.72	1,598,368.30343	2,347,202.57590	39.45348	-107.81210	
3,000.00	13.25	219.31	2,930.07	-477.22	-390.76	1,598,333.59511	2,347,172.64945	39.45339	-107.81220	
3,200.00	13.25	219.31	3,124.75	-512.68	-419.79	1,598,298.88678	2,347,142.72299	39.45329	-107.81230	
3,400.00	13.25	219.31	3,319.43	-548.14	-448.83	1,598,264.17845	2,347,112.79652	39.45319	-107.81240	
3,600.00	13.25	219.31	3,514.11	-583.60	-477.86	1,598,229.47014	2,347,082.87006	39.45310	-107.81251	
3,800.00	13.25	219.31	3,708.78	-619.06	-506.90	1,598,194.76181	2,347,052.94359	39.45300	-107.81261	
3,884.46	13.25	219.31	3,791.00	-634.03	-519.16	1,598,180.10401	2,347,040.30524	39.45296	-107.81265	
Top of "G" Sand										
3,987.20	13.25	219.31	3,891.00	-652.25	-534.08	1,598,162.27544	2,347,024.93296	39.45291	-107.81271	
Base of "G" Sand										
4,000.00	13.25	219.31	3,903.46	-654.52	-535.93	1,598,160.05348	2,347,023.01713	39.45290	-107.81271	
4,200.00	13.25	219.31	4,098.14	-689.98	-564.97	1,598,125.34516	2,346,993.09067	39.45280	-107.81282	
4,400.00	13.25	219.31	4,292.82	-725.44	-594.00	1,598,090.63683	2,346,963.16420	39.45271	-107.81292	
4,600.00	13.25	219.31	4,487.50	-760.90	-623.04	1,598,055.92851	2,346,933.23774	39.45261	-107.81302	
4,800.00	13.25	219.31	4,682.18	-796.36	-652.08	1,598,021.22018	2,346,903.31127	39.45251	-107.81312	
5,000.00	13.25	219.31	4,876.85	-831.82	-681.11	1,597,986.51185	2,346,873.38481	39.45241	-107.81323	
5,200.00	13.25	219.31	5,071.53	-867.28	-710.15	1,597,951.80353	2,346,843.45835	39.45232	-107.81333	
5,400.00	13.25	219.31	5,266.21	-902.74	-739.18	1,597,917.09520	2,346,813.53188	39.45222	-107.81343	
5,600.00	13.25	219.31	5,460.89	-938.20	-768.22	1,597,882.38687	2,346,783.60543	39.45212	-107.81354	
5,800.00	13.25	219.31	5,655.57	-973.66	-797.25	1,597,847.67855	2,346,753.67896	39.45202	-107.81364	
6,000.00	13.25	219.31	5,850.24	-1,009.12	-826.29	1,597,812.97023	2,346,723.75250	39.45193	-107.81374	
6,200.00	13.25	219.31	6,044.92	-1,044.58	-855.32	1,597,778.26190	2,346,693.82604	39.45183	-107.81384	
6,400.00	13.25	219.31	6,239.60	-1,080.04	-884.36	1,597,743.55358	2,346,663.89957	39.45173	-107.81395	
6,402.47	13.25	219.31	6,242.00	-1,080.47	-884.72	1,597,743.12563	2,346,663.53059	39.45173	-107.81395	
Mesaverde										
6,600.00	13.25	219.31	6,434.28	-1,115.50	-913.39	1,597,708.84525	2,346,633.97311	39.45163	-107.81405	
6,630.05	13.25	219.31	6,463.52	-1,120.82	-917.76	1,597,703.63106	2,346,629.47729	39.45162	-107.81406	
Begin Drop -2.00°/100										
6,800.00	9.85	219.31	6,630.01	-1,147.14	-939.31	1,597,677.86939	2,346,607.26488	39.45155	-107.81414	
7,000.00	5.85	219.31	6,828.10	-1,168.27	-956.60	1,597,657.19157	2,346,589.43590	39.45149	-107.81420	
7,200.00	1.85	219.31	7,027.61	-1,178.65	-965.11	1,597,647.02857	2,346,580.67309	39.45146	-107.81423	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 534-7 - Slot B11
<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 534-7	<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
7,292.41	0.00	0.00	7,120.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>Vertical</b>									
7,392.41	0.00	0.00	7,220.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>Top Gas - Approx. Top Gas</b>									
7,400.00	0.00	0.00	7,227.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
7,600.00	0.00	0.00	7,427.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
7,800.00	0.00	0.00	7,627.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
8,000.00	0.00	0.00	7,827.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
8,200.00	0.00	0.00	8,027.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
8,400.00	0.00	0.00	8,227.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
8,600.00	0.00	0.00	8,427.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
8,800.00	0.00	0.00	8,627.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,000.00	0.00	0.00	8,827.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,132.41	0.00	0.00	8,960.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>Cameo Coals</b>									
9,200.00	0.00	0.00	9,027.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,400.00	0.00	0.00	9,227.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,600.00	0.00	0.00	9,427.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,800.00	0.00	0.00	9,627.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
9,825.41	0.00	0.00	9,653.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>Coal D</b>									
9,992.41	0.00	0.00	9,820.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>Rollins SS</b>									
10,000.00	0.00	0.00	9,827.59	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
10,142.41	0.00	0.00	9,970.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
<b>TD at 10142.41 - 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	7,220.00	-1,179.80	-966.05	1,597,645.90000	2,346,579.70000	39.45146	-107.81424
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,325.37	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 534-7 - Slot B11
<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 534-7	<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)
	3,884.46	3,791.00	Top of "G" Sand			
	3,987.20	3,891.00	Base of "G" Sand			
	6,402.47	6,242.00	Mesaverde			
	7,392.41	7,220.00	Approx. Top Gas			
	9,132.41	8,960.00	Cameo Coals			
	9,825.41	9,653.00	Coal D			
	9,992.41	9,820.00	Rollins SS			
	10,142.41	9,970.00	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 3.50
	498.49	495.13	-33.70	-27.60	Hold 13.25° Inc, 219.31° Az
	6,630.05	6,463.52	-1,120.82	-917.76	Begin Drop -2.00°/100
	7,292.41	7,120.00	-1,179.80	-966.05	Vertical
	7,392.41	7,220.00	-1,179.80	-966.05	Top Gas
	10,142.41	9,970.00	-1,179.80	-966.05	TD at 10142.41