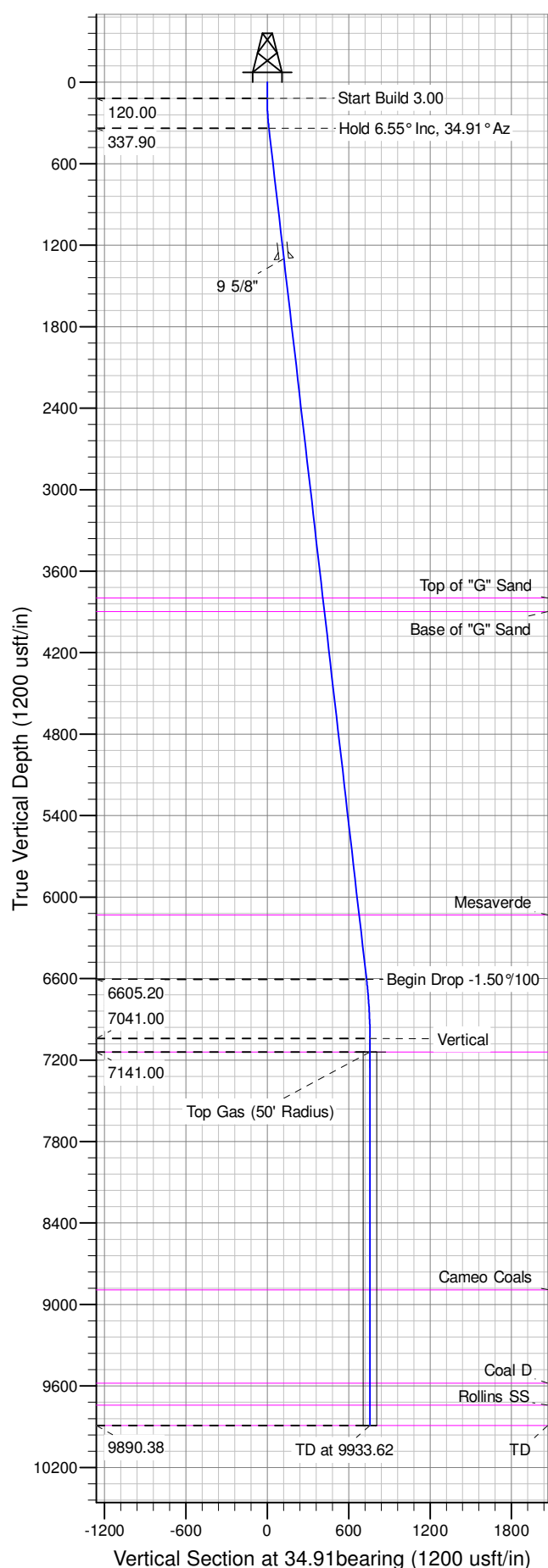




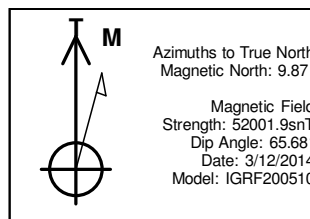
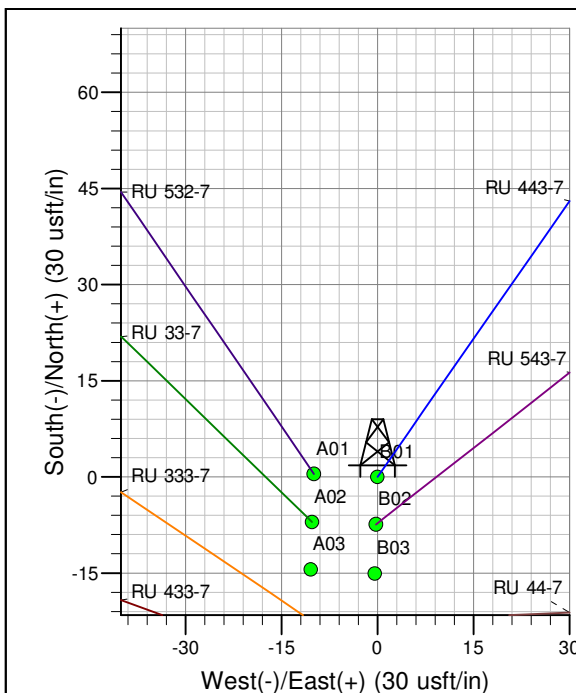
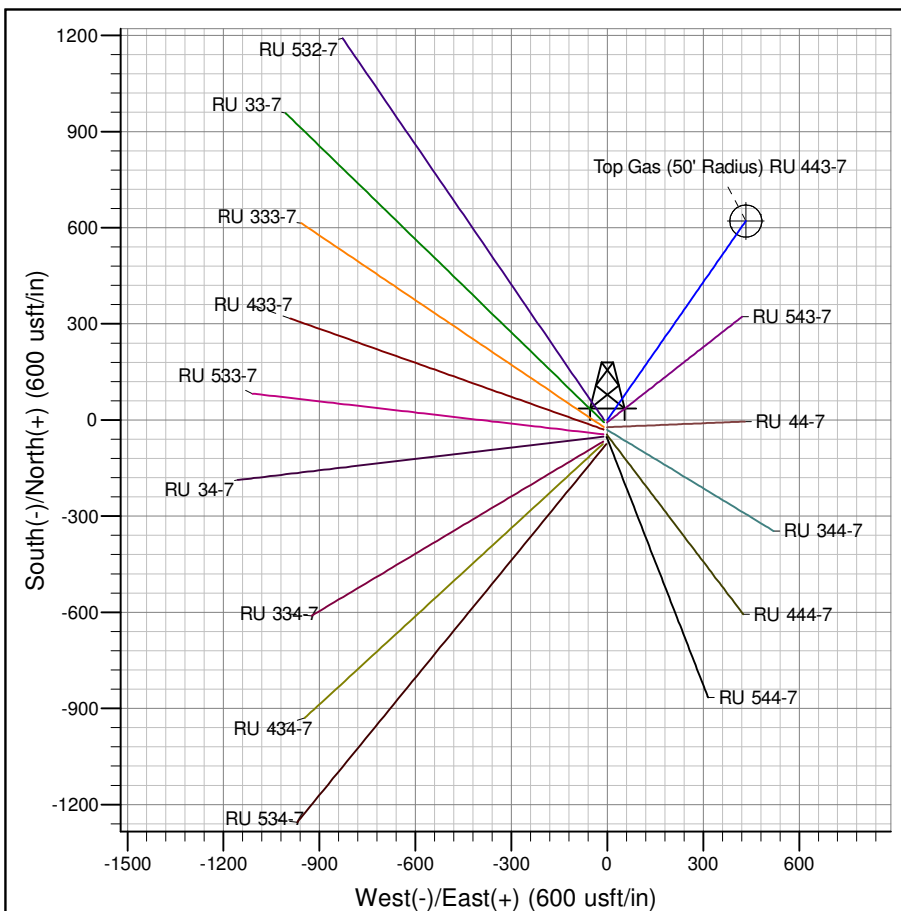
Well Name: RU 443-7  
Surface Location: RU 44-7 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7917.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1598875.50000	2347580.20000	39.45490	-107.81080	B01

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	0.00	Start Build 3.00
337.90	338.38	6.55	34.91	10.23	7.14	12.47	12.47	Hold 6.55° Inc, 34.91° Az	
6605.20	6646.87	6.55	34.91	600.49	418.99	732.22	732.22	Begin Drop -1.50°/100	
7041.00	7083.62	0.00	0.00	620.95	433.27	757.16	757.16	Vertical	
7141.00	7183.62	0.00	0.00	620.95	433.27	757.16	757.16	Top Gas	
9890.38	9933.00	0.00	0.00	620.95	433.27	757.16	757.16	TD at 9933.62	



Project: RU 07-07S-093W  
Site: RU 44-7 Pad  
Well: RU 443-7  
Design #2 28May14 mab

# **PICEANCE VLY NAD 83**

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

**RU 44-7 Pad**

**RU 443-7 - Slot B01**

**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 443-7 - Slot B01
<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 443-7	<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 443-7 - Slot B01			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,598,875.50000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,347,580.20000 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	34.91

<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	
338.38	6.55	34.91	337.90	10.23	7.14	3.00	3.00	0.00	34.91	
6,646.87	6.55	34.91	6,605.20	600.49	418.99	0.00	0.00	0.00	0.00	
7,083.62	0.00	0.00	7,041.00	620.95	433.27	1.50	-1.50	0.00	180.00	
7,183.62	0.00	0.00	7,141.00	620.95	433.27	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,933.62	0.00	0.00	9,891.00	620.95	433.27	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 443-7 - Slot B01
<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 443-7	<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	1,598,875.50000	2,347,580.20000	39.45490	-107.81080
120.00	0.00	0.00	120.00	0.00	0.00	1,598,875.50000	2,347,580.20000	39.45490	-107.81080
Start Build 3.00									
200.00	2.40	34.91	199.98	1.37	0.96	1,598,876.84900	2,347,581.19322	39.45491	-107.81080
338.38	6.55	34.91	337.90	10.23	7.14	1,598,885.54224	2,347,587.59373	39.45493	-107.81078
Hold 6.55° Inc, 34.91° Az									
400.00	6.55	34.91	399.12	15.99	11.16	1,598,891.20378	2,347,591.76212	39.45495	-107.81077
600.00	6.55	34.91	597.82	34.71	24.22	1,598,909.57816	2,347,605.29051	39.45500	-107.81072
800.00	6.55	34.91	796.51	53.42	37.27	1,598,927.95254	2,347,618.81890	39.45505	-107.81067
1,000.00	6.55	34.91	995.20	72.13	50.33	1,598,946.32693	2,347,632.34729	39.45510	-107.81063
1,200.00	6.55	34.91	1,193.90	90.85	63.39	1,598,964.70131	2,347,645.87568	39.45515	-107.81058
1,306.80	6.55	34.91	1,300.00	100.84	70.36	1,598,974.51315	2,347,653.09979	39.45518	-107.81056
9 5/8"									
1,400.00	6.55	34.91	1,392.59	109.56	76.45	1,598,983.07569	2,347,659.40407	39.45520	-107.81053
1,600.00	6.55	34.91	1,591.29	128.27	89.50	1,599,001.45007	2,347,672.93247	39.45526	-107.81049
1,800.00	6.55	34.91	1,789.98	146.99	102.56	1,599,019.82446	2,347,686.46086	39.45531	-107.81044
2,000.00	6.55	34.91	1,988.67	165.70	115.62	1,599,038.19883	2,347,699.98925	39.45536	-107.81040
2,200.00	6.55	34.91	2,187.37	184.41	128.67	1,599,056.57321	2,347,713.51764	39.45541	-107.81035
2,400.00	6.55	34.91	2,386.06	203.13	141.73	1,599,074.94759	2,347,727.04603	39.45546	-107.81030
2,600.00	6.55	34.91	2,584.76	221.84	154.79	1,599,093.32197	2,347,740.57442	39.45551	-107.81026
2,800.00	6.55	34.91	2,783.45	240.55	167.85	1,599,111.69636	2,347,754.10281	39.45556	-107.81021
3,000.00	6.55	34.91	2,982.14	259.27	180.90	1,599,130.07074	2,347,767.63120	39.45561	-107.81016
3,200.00	6.55	34.91	3,180.84	277.98	193.96	1,599,148.44512	2,347,781.15960	39.45567	-107.81012
3,400.00	6.55	34.91	3,379.53	296.69	207.02	1,599,166.81950	2,347,794.68799	39.45572	-107.81007
3,600.00	6.55	34.91	3,578.23	315.41	220.08	1,599,185.19389	2,347,808.21638	39.45577	-107.81003
3,800.00	6.55	34.91	3,776.92	334.12	233.13	1,599,203.56827	2,347,821.74477	39.45582	-107.80998
3,820.21	6.55	34.91	3,797.00	336.01	234.45	1,599,205.42513	2,347,823.11191	39.45583	-107.80997
Top of "G" Sand									
3,920.87	6.55	34.91	3,897.00	345.43	241.02	1,599,214.67270	2,347,829.92056	39.45585	-107.80995
Base of "G" Sand									
4,000.00	6.55	34.91	3,975.61	352.83	246.19	1,599,221.94265	2,347,835.27316	39.45587	-107.80993
4,200.00	6.55	34.91	4,174.31	371.55	259.25	1,599,240.31703	2,347,848.80155	39.45592	-107.80989
4,400.00	6.55	34.91	4,373.00	390.26	272.30	1,599,258.69141	2,347,862.32994	39.45597	-107.80984
4,600.00	6.55	34.91	4,571.70	408.97	285.36	1,599,277.06580	2,347,875.85834	39.45603	-107.80979
4,800.00	6.55	34.91	4,770.39	427.69	298.42	1,599,295.44018	2,347,889.38673	39.45608	-107.80975
5,000.00	6.55	34.91	4,969.08	446.40	311.48	1,599,313.81456	2,347,902.91512	39.45613	-107.80970
5,200.00	6.55	34.91	5,167.78	465.11	324.53	1,599,332.18894	2,347,916.44351	39.45618	-107.80966
5,400.00	6.55	34.91	5,366.47	483.83	337.59	1,599,350.56333	2,347,929.97190	39.45623	-107.80961
5,600.00	6.55	34.91	5,565.17	502.54	350.65	1,599,368.93771	2,347,943.50029	39.45628	-107.80956
5,800.00	6.55	34.91	5,763.86	521.25	363.71	1,599,387.31209	2,347,957.02868	39.45633	-107.80952
6,000.00	6.55	34.91	5,962.56	539.97	376.76	1,599,405.68647	2,347,970.55707	39.45639	-107.80947
6,170.56	6.55	34.91	6,132.00	555.93	387.90	1,599,421.35603	2,347,982.09400	39.45643	-107.80943
Mesaverde									
6,200.00	6.55	34.91	6,161.25	558.68	389.82	1,599,424.06086	2,347,984.08546	39.45644	-107.80942
6,400.00	6.55	34.91	6,359.94	577.39	402.88	1,599,442.43523	2,347,997.61385	39.45649	-107.80938
6,600.00	6.55	34.91	6,558.64	596.11	415.94	1,599,460.80961	2,348,011.14224	39.45654	-107.80933
6,646.87	6.55	34.91	6,605.20	600.49	418.99	1,599,465.11551	2,348,014.31252	39.45655	-107.80932
Begin Drop -1.50°/100									
6,800.00	4.25	34.91	6,757.64	612.32	427.24	1,599,476.72500	2,348,022.86017	39.45658	-107.80929
7,000.00	1.25	34.91	6,957.39	620.20	432.74	1,599,484.46299	2,348,028.55737	39.45661	-107.80927
7,083.62	0.00	0.00	7,041.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
Vertical									

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 443-7 - Slot B01
<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 443-7	<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
7,183.62	0.00	0.00	7,141.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<b>Top Gas - Approx. Top Gas</b>									
7,200.00	0.00	0.00	7,157.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
7,400.00	0.00	0.00	7,357.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
7,600.00	0.00	0.00	7,557.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
7,800.00	0.00	0.00	7,757.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,000.00	0.00	0.00	7,957.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,200.00	0.00	0.00	8,157.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,400.00	0.00	0.00	8,357.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,600.00	0.00	0.00	8,557.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,800.00	0.00	0.00	8,757.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
8,934.62	0.00	0.00	8,892.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<b>Cameo Coals</b>									
9,000.00	0.00	0.00	8,957.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
9,200.00	0.00	0.00	9,157.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
9,400.00	0.00	0.00	9,357.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
9,600.00	0.00	0.00	9,557.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
9,620.62	0.00	0.00	9,578.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<b>Coal D</b>									
9,783.62	0.00	0.00	9,741.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<b>Rollins SS</b>									
9,800.00	0.00	0.00	9,757.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
9,933.00	0.00	0.00	9,890.38	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<b>TD at 9933.62</b>									
9,933.62	0.00	0.00	9,891.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927
<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	7,141.00	620.95	433.27	1,599,485.20000	2,348,029.10000	39.45661	-107.80927

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,306.80	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 443-7 - Slot B01
<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 443-7	<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)
	3,820.21	3,797.00	Top of "G" Sand			
	3,920.87	3,897.00	Base of "G" Sand			
	6,170.56	6,132.00	Mesaverde			
	7,183.62	7,141.00	Approx. Top Gas			
	8,934.62	8,892.00	Cameo Coals			
	9,620.62	9,578.00	Coal D			
	9,783.62	9,741.00	Rollins SS			
	9,933.62	9,891.00	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
	338.38	337.90	10.23	7.14	Hold 6.55° Inc, 34.91° Az
	6,646.87	6,605.20	600.49	418.99	Begin Drop -1.50°/100
	7,083.62	7,041.00	620.95	433.27	Vertical
	7,183.62	7,141.00	620.95	433.27	Top Gas
	9,933.00	9,890.38	620.95	433.27	TD at 9933.62