

# **PICEANCE VLY NAD 83**

**PA 11-07S-095W**

**PA 22-11 Pad**

**PA 411-11 - Slot B5**

**Wellbore #1**

**Plan: Plan #3 03may13 kcb**

## **Standard Planning Report - Geographic**

**03 May, 2013**

**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well PA 411-11 (B5) - Slot B5
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KB @ 6295.0usft (Cyclone 17 (KB 21'))
<b>Project:</b>	PA 11-07S-095W	<b>MD Reference:</b>	KB @ 6295.0usft (Cyclone 17 (KB 21'))
<b>Site:</b>	PA 22-11 Pad	<b>North Reference:</b>	True
<b>Well:</b>	PA 411-11	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 03may13 kcb		

<b>Project</b>	PA 11-07S-095W, 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

Site		PA 22-11 Pad			
Site Position:		Northing:	1,599,302.80 usft	Latitude:	39° 27' 10.388 N
From:	Map	Easting:	2,303,403.20 usft	Longitude:	107° 58' 2.060 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.56 °

Well	PA 411-11 - Slot B5					
Well Position	+N/-S	0.0 usft	Northing:	1,599,314.48 usft	Latitude:	39° 27' 10.492 N
	+E/-W	0.0 usft	Easting:	2,303,358.61 usft	Longitude:	107° 58' 2.632 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,274.0 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	5/7/2013	10.09	65.66	52,037

<b>Design</b>	Plan #3 03may13 kcb				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	317.98	

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,080.4	28.51	317.98	1,041.7	172.1	-155.1	3.00	3.00	0.00	317.98	
4,087.0	28.51	317.98	3,683.6	1,238.4	-1,115.7	0.00	0.00	0.00	0.00	
5,987.9	0.00	0.00	5,507.0	1,582.6	-1,425.9	1.50	-1.50	0.00	180.00	
6,087.9	0.00	0.00	5,607.0	1,582.6	-1,425.9	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
8,272.9	0.00	0.00	7,792.0	1,582.6	-1,425.9	0.00	0.00	0.00	0.00	

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Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well PA 411-11 (B5) - Slot B5
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KB @ 6295.0usft (Cyclone 17 (KB 21'))
<b>Project:</b>	PA 11-07S-095W	<b>MD Reference:</b>	KB @ 6295.0usft (Cyclone 17 (KB 21'))
<b>Site:</b>	PA 22-11 Pad	<b>North Reference:</b>	True
<b>Well:</b>	PA 411-11	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #3 03may13 kcb		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	1,599,314.48	2,303,358.61	39° 27' 10.492 N	107° 58' 2.632 W	
130.0	0.00	0.00	130.0	0.0	0.0	1,599,314.48	2,303,358.61	39° 27' 10.492 N	107° 58' 2.632 W	
1,080.4	28.51	317.98	1,041.7	172.1	-155.1	1,599,490.73	2,303,208.29	39° 27' 12.193 N	107° 58' 4.609 W	
4,087.0	28.51	317.98	3,683.6	1,238.4	-1,115.7	1,600,582.67	2,302,276.96	39° 27' 22.731 N	107° 58' 16.857 W	
5,987.9	0.00	0.00	5,507.0	1,582.6	-1,425.9	1,600,935.16	2,301,976.31	39° 27' 26.133 N	107° 58' 20.811 W	
6,087.9	0.00	0.00	5,607.0	1,582.6	-1,425.9	1,600,935.16	2,301,976.31	39° 27' 26.133 N	107° 58' 20.811 W	
8,272.9	0.00	0.00	7,792.0	1,582.6	-1,425.9	1,600,935.16	2,301,976.31	39° 27' 26.133 N	107° 58' 20.811 W	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Top Gas (25' Radius) P/	0.00	0.00	5,607.0	1,582.6	-1,425.9	1,600,935.15	2,301,976.31	39° 27' 26.133 N	107° 58' 20.811 W	
- plan hits target center										
- Circle (radius 25.0)										
Top Gas (50' Radius)	0.00	0.00	5,607.0	1,582.6	-1,425.9	1,600,935.16	2,301,976.31	39° 27' 26.133 N	107° 58' 20.811 W	
- plan hits target center										
- Circle (radius 50.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
1,130.0	1,085.2	9 5/8" 1130' MD Setting Depth		9-5/8	13-1/2

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,513.6	4,069.0	Top of "G" Sand				
4,620.9	4,169.0	Base of "G" Sand				
4,834.5	4,371.0	Mesaverde				
6,087.9	5,607.0	Approx. Top Gas		0.00		
7,187.9	6,707.0	Cameo Coals		0.00		
8,122.9	7,642.0	Rollins SS				
8,272.9	7,792.0	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
130.0	130.0	0.0	0.0	Start Build 3.00	
1,080.4	1,041.7	172.1	-155.1	Hold 28.51 Inclination	
4,087.0	3,683.6	1,238.4	-1,115.7	Start Drop -1.50	
5,987.9	5,507.0	1,582.6	-1,425.9	Vertical	
6,087.9	5,607.0	1,582.6	-1,425.9	Approx. TOG	
8,272.9	7,792.0	1,582.6	-1,425.9	TD at 8273' MD	