



## **PICEANCE VLY NAD 83**

**PA 02-07S-095W**

**GV 86-2 Pad**

**PA 522-2 - Slot B3**

**Wellbore #1**

**Plan: Plan #2 12Feb13 kjs**

## **Standard Planning Report - Geographic**

**05 June, 2013**



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well PA 522-2 - Slot B3
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
<b>Project:</b>	PA 02-07S-095W	<b>MD Reference:</b>	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
<b>Site:</b>	GV 86-2 Pad	<b>North Reference:</b>	True
<b>Well:</b>	PA 522-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 12Feb13 kjs		

<b>Project</b>	PA 02-07S-095W, Garfield County, CO, 02-07S-095W		
<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>	GV 86-2 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,603,715.70 usft	<b>Latitude:</b> 39.46496
<b>From:</b> Map		<b>Easting:</b>	2,302,953.10 usft	<b>Longitude:</b> -107.96926
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.557 °

Well	PA 522-2 - Slot B3					
Well Position	+N/-S	0.00 usft	Northing:	1,603,780.10 usft	Latitude:	39.46514
	+E/-W	0.00 usft	Easting:	2,302,930.30 usft	Longitude:	-107.96935
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,821.00 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>
	IGRF2005-10	8/20/2008	10.680	65.804	52,546

<b>Design</b>	Plan #2 12Feb13 kjs			
<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 (°)</b>
	0.00	0.00	0.00	46.40

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.000	
513.40	11.80	46.40	510.62	27.84	29.24	3.00	3.00	0.00	46.399	
4,686.75	11.80	46.40	4,595.75	616.50	647.37	0.00	0.00	0.00	0.000	
5,473.55	0.00	0.00	5,377.00	672.18	705.84	1.50	-1.50	0.00	180.000	
5,573.55	0.00	0.00	5,477.00	672.18	705.84	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
7,723.55	0.00	0.00	7,627.00	672.18	705.84	0.00	0.00	0.00	0.000	



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Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well PA 522-2 - Slot B3
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
<b>Project:</b>	PA 02-07S-095W	<b>MD Reference:</b>	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
<b>Site:</b>	GV 86-2 Pad	<b>North Reference:</b>	True
<b>Well:</b>	PA 522-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 12Feb13 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,603,780.10	2,302,930.30	39.46514	-107.96935	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,780.10	2,302,930.30	39.46514	-107.96935	
Start Build 3.00										
500.00	11.40	46.40	497.50	25.98	27.29	1,603,805.33	2,302,958.28	39.46521	-107.96925	
513.40	11.80	46.40	510.62	27.84	29.24	1,603,807.13	2,302,960.28	39.46522	-107.96924	
Hold 11.80 Inclination										
872.00	11.80	46.40	861.64	78.42	82.35	1,603,856.25	2,303,014.75	39.46535	-107.96905	
9 5/8"										
1,000.00	11.80	46.40	986.94	96.48	101.31	1,603,873.78	2,303,034.19	39.46540	-107.96899	
1,500.00	11.80	46.40	1,476.37	167.00	175.37	1,603,942.26	2,303,110.13	39.46560	-107.96873	
1,939.93	11.80	46.40	1,907.00	229.06	240.53	1,604,002.52	2,303,176.95	39.46577	-107.96849	
Top of "G" Sand										
2,000.00	11.80	46.40	1,965.80	237.53	249.42	1,604,010.75	2,303,186.08	39.46579	-107.96846	
2,042.09	11.80	46.40	2,007.00	243.47	255.66	1,604,016.51	2,303,192.47	39.46581	-107.96844	
Base of "G" Sand										
2,500.00	11.80	46.40	2,455.23	308.05	323.48	1,604,079.23	2,303,262.02	39.46598	-107.96820	
3,000.00	11.80	46.40	2,944.66	378.58	397.54	1,604,147.71	2,303,337.96	39.46618	-107.96794	
3,500.00	11.80	46.40	3,434.09	449.10	471.59	1,604,216.20	2,303,413.90	39.46637	-107.96768	
4,000.00	11.80	46.40	3,923.52	519.63	545.65	1,604,284.68	2,303,489.85	39.46657	-107.96741	
4,238.52	11.80	46.40	4,157.00	553.27	580.98	1,604,317.35	2,303,526.07	39.46666	-107.96729	
Mesaverde										
4,500.00	11.80	46.40	4,412.95	590.15	619.71	1,604,353.16	2,303,565.79	39.46676	-107.96715	
4,686.75	11.80	46.40	4,595.75	616.50	647.37	1,604,378.74	2,303,594.15	39.46683	-107.96705	
Start Drop -1.50										
5,000.00	7.10	46.40	4,904.66	651.96	684.61	1,604,413.18	2,303,632.35	39.46693	-107.96692	
5,473.55	0.00	0.00	5,377.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
Vertical										
5,500.00	0.00	0.00	5,403.45	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
5,573.55	0.00	0.00	5,477.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
Top Gas - Approx. Top Gas										
6,000.00	0.00	0.00	5,903.45	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
6,500.00	0.00	0.00	6,403.45	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
6,643.55	0.00	0.00	6,547.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
Cameo Coals										
7,000.00	0.00	0.00	6,903.45	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
7,500.00	0.00	0.00	7,403.45	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
7,573.55	0.00	0.00	7,477.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
Rollins SS										
7,723.55	0.00	0.00	7,627.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
TD at 7723.55 - TD										

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 (50' Radius) P/	0.00	0.00	5,477.00	672.18	705.84	1,604,432.82	2,303,654.12	39.46698	-107.96685	
- plan hits target center										
- Circle (radius 50.00)										



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<b>Project:</b>	PA 02-07S-095W	<b>MD Reference:</b>	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
<b>Site:</b>	GV 86-2 Pad	<b>North Reference:</b>	True
<b>Well:</b>	PA 522-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #2 12Feb13 kjs		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
872.00	861.64	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,939.93	1,907.00	Top of "G" Sand				
2,042.09	2,007.00	Base of "G" Sand				
4,238.52	4,157.00	Mesaverde				
5,573.55	5,477.00	Approx. Top Gas				
6,643.55	6,547.00	Cameo Coals				
7,573.55	7,477.00	Rollins SS				
7,723.55	7,627.00	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	
513.40	510.62	27.84	29.24	Hold 11.80 Inclination	
4,686.75	4,595.75	616.50	647.37	Start Drop -1.50	
5,473.55	5,377.00	672.18	705.84	Vertical	
5,573.55	5,477.00	672.18	705.84	Top Gas	
7,723.55	7,627.00	672.18	705.84	TD at 7723.55	