



PICEANCE VLY NAD 83

PA 02-07S-095W

GV 86-2 Pad

PA 313-2 - Slot B5

Wellbore #1

Plan: Plan #2 12Feb13 kjs

Standard Planning Report - Geographic

05 June, 2013



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 313-2 - Slot B5
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
Project:	PA 02-07S-095W	MD Reference:	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
Site:	GV 86-2 Pad	North Reference:	True
Well:	PA 313-2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 12Feb13 kjs		

Project	PA 02-07S-095W, Garfield County, CO, 02-07S-095W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	GV 86-2 Pad		
Site Position:		Northing:	1,603,715.70 usft
From:	Map	Easting:	2,302,953.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.46496
		Longitude:	-107.96926
		Grid Convergence:	-1.557 °

Well	PA 313-2 - Slot B5					
Well Position	+N/-S	0.00 usft	Northing:	1,603,766.80 usft	Latitude:	39.46510
	+E/-W	0.00 usft	Easting:	2,302,937.30 usft	Longitude:	-107.96932
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,821.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/31/2007	10.785	65.824	52,624

Design	Plan #2 12Feb13 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	272.80

Plan Sections										
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.000	
981.93	16.94	272.80	969.64	6.07	-124.13	2.00	2.00	0.00	272.799	
4,269.03	16.94	272.80	4,114.14	52.83	-1,080.67	0.00	0.00	0.00	0.000	
5,398.26	0.00	0.00	5,227.00	60.92	-1,246.18	1.50	-1.50	0.00	180.000	
5,498.26	0.00	0.00	5,327.00	60.92	-1,246.18	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
7,648.26	0.00	0.00	7,477.00	60.92	-1,246.18	0.00	0.00	0.00	0.000	

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Wellbore:	Wellbore #1		
Design:	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	1,603,766.80	2,302,937.30	39.46510	-107.96932	
135.00	0.00	0.00	135.00	0.00	0.00	1,603,766.80	2,302,937.30	39.46510	-107.96932	
Start Build 2.00										
500.00	7.30	272.80	499.01	1.13	-23.19	1,603,768.56	2,302,914.15	39.46511	-107.96940	
981.93	16.94	272.80	969.64	6.07	-124.13	1,603,776.24	2,302,813.39	39.46512	-107.96976	
Hold 16.94 Inclination										
1,000.00	16.94	272.80	986.93	6.33	-129.39	1,603,776.63	2,302,808.14	39.46512	-107.96978	
1,082.00	16.94	272.80	1,065.38	7.49	-153.25	1,603,778.45	2,302,784.31	39.46512	-107.96986	
9 5/8"										
1,500.00	16.94	272.80	1,465.24	13.44	-274.89	1,603,787.70	2,302,662.89	39.46514	-107.97029	
1,951.34	16.94	272.80	1,897.00	19.86	-406.23	1,603,797.69	2,302,531.78	39.46516	-107.97076	
Top of "G" Sand										
2,000.00	16.94	272.80	1,943.55	20.55	-420.39	1,603,798.76	2,302,517.64	39.46516	-107.97081	
2,055.87	16.94	272.80	1,997.00	21.35	-436.65	1,603,800.00	2,302,501.41	39.46516	-107.97087	
Base of "G" Sand										
2,500.00	16.94	272.80	2,421.86	27.66	-565.89	1,603,809.83	2,302,372.40	39.46518	-107.97132	
3,000.00	16.94	272.80	2,900.17	34.78	-711.39	1,603,820.89	2,302,227.15	39.46520	-107.97184	
3,500.00	16.94	272.80	3,378.48	41.89	-856.89	1,603,831.95	2,302,081.91	39.46522	-107.97236	
4,000.00	16.94	272.80	3,856.79	49.00	-1,002.39	1,603,843.02	2,301,936.66	39.46524	-107.97287	
4,188.39	16.94	272.80	4,037.00	51.68	-1,057.21	1,603,847.19	2,301,881.94	39.46525	-107.97306	
Mesaverde										
4,269.03	16.94	272.80	4,114.14	52.83	-1,080.67	1,603,848.97	2,301,858.51	39.46525	-107.97315	
Start Drop -1.50										
4,500.00	13.47	272.80	4,337.00	55.79	-1,141.17	1,603,853.57	2,301,798.12	39.46526	-107.97336	
5,000.00	5.97	272.80	4,829.46	59.91	-1,225.46	1,603,859.98	2,301,713.97	39.46527	-107.97366	
5,398.26	0.00	0.00	5,227.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
Vertical										
5,498.26	0.00	0.00	5,327.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
Top Gas - Approx. Top Gas										
5,500.00	0.00	0.00	5,328.74	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
6,000.00	0.00	0.00	5,828.74	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
6,500.00	0.00	0.00	6,328.74	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
6,598.26	0.00	0.00	6,427.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
Cameo Coals										
7,000.00	0.00	0.00	6,828.74	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
7,498.26	0.00	0.00	7,327.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
Rollins SS										
7,500.00	0.00	0.00	7,328.74	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
7,648.26	0.00	0.00	7,477.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	
TD at 7648.26 - TD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Top Gas (50' Radius) P/ - plan hits target center - Circle (radius 50.00)	0.00	0.00	5,327.00	60.92	-1,246.18	1,603,861.56	2,301,693.29	39.46527	-107.97373	



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Project:	PA 02-07S-095W	MD Reference:	KELLY BUSHING @ 5847.00usft (Nabors 577 (26' RKB) kjs)
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Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,082.00	1,065.38	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,951.34	1,897.00	Top of "G" Sand				
2,055.87	1,997.00	Base of "G" Sand				
4,188.39	4,037.00	Mesaverde				
5,498.26	5,327.00	Approx. Top Gas				
6,598.26	6,427.00	Cameo Coals				
7,498.26	7,327.00	Rollins SS				
7,648.26	7,477.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
135.00	135.00	0.00	0.00	Start Build 2.00	
981.93	969.64	6.07	-124.13	Hold 16.94 Inclination	
4,269.03	4,114.14	52.83	-1,080.67	Start Drop -1.50	
5,398.26	5,227.00	60.92	-1,246.18	Vertical	
5,498.26	5,327.00	60.92	-1,246.18	Top Gas	
7,648.26	7,477.00	60.92	-1,246.18	TD at 7648.26	