



PICEANCE VLY NAD 83

PA 02-07S-095W

GV 86-2 Pad

PA 43-3 - Slot A1

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 43-3 - Slot A1
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 43-3	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	Latitude:	39.46496
From:	Map	Easting:	2,302,953.10 usft	Longitude:	-107.96926
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.557 °

Well	PA 43-3 - Slot A1					
Well Position	+N/-S	0.00 usft	Northing:	1,603,788.60 usft	Latitude:	39.46516
	+E/-W	0.00 usft	Easting:	2,302,914.50 usft	Longitude:	-107.96940
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	279.12

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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,100.94	39.24	279.12	1,026.04	51.21	-318.88	4.00	4.00	0.00	279.123	
3,366.63	39.24	279.12	2,780.89	278.43	-1,733.88	0.00	0.00	0.00	0.000	
5,982.46	0.00	0.00	5,197.00	414.98	-2,584.22	1.50	-1.50	0.00	180.000	
6,082.46	0.00	0.00	5,297.00	414.98	-2,584.22	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
8,232.46	0.00	0.00	7,447.00	414.98	-2,584.22	0.00	0.00	0.00	0.000	



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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 43-3	Survey Calculation Method:	Minimum Curvature
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	1,603,788.60	2,302,914.50	39.46516	-107.96940	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,788.60	2,302,914.50	39.46516	-107.96940	
Start Build 4.00										
500.00	15.20	279.12	495.56	7.94	-49.48	1,603,797.88	2,302,865.26	39.46518	-107.96958	
1,000.00	35.20	279.12	945.68	41.53	-258.61	1,603,837.13	2,302,657.13	39.46528	-107.97032	
1,100.94	39.24	279.12	1,026.04	51.21	-318.88	1,603,848.45	2,302,597.15	39.46530	-107.97053	
Hold 39.24 Inclination										
1,201.00	39.24	279.12	1,103.54	61.24	-381.37	1,603,860.18	2,302,534.96	39.46533	-107.97075	
9 5/8"										
1,500.00	39.24	279.12	1,335.13	91.23	-568.10	1,603,895.22	2,302,349.11	39.46541	-107.97142	
2,000.00	39.24	279.12	1,722.39	141.37	-880.37	1,603,953.84	2,302,038.34	39.46555	-107.97252	
2,225.44	39.24	279.12	1,897.00	163.98	-1,021.16	1,603,980.26	2,301,898.22	39.46561	-107.97302	
Top of "G" Sand										
2,354.55	39.24	279.12	1,997.00	176.93	-1,101.80	1,603,995.40	2,301,817.97	39.46565	-107.97331	
Base of "G" Sand										
2,500.00	39.24	279.12	2,109.66	191.52	-1,192.64	1,604,012.45	2,301,727.56	39.46569	-107.97363	
3,000.00	39.24	279.12	2,496.92	241.66	-1,504.91	1,604,071.06	2,301,416.78	39.46582	-107.97473	
3,366.63	39.24	279.12	2,780.89	278.43	-1,733.88	1,604,114.03	2,301,188.90	39.46593	-107.97554	
Start Drop -1.50										
3,500.00	37.24	279.12	2,885.64	291.52	-1,815.38	1,604,129.33	2,301,107.80	39.46596	-107.97583	
4,000.00	29.74	279.12	3,302.35	335.22	-2,087.57	1,604,180.42	2,300,836.91	39.46608	-107.97680	
4,500.00	22.24	279.12	3,751.48	369.93	-2,303.72	1,604,220.99	2,300,621.78	39.46618	-107.97756	
4,803.85	17.68	279.12	4,037.00	386.37	-2,406.10	1,604,240.20	2,300,519.90	39.46622	-107.97793	
Mesaverde										
5,000.00	14.74	279.12	4,225.33	395.05	-2,460.15	1,604,250.35	2,300,466.10	39.46625	-107.97812	
5,500.00	7.24	279.12	4,715.82	410.15	-2,554.17	1,604,267.99	2,300,372.53	39.46629	-107.97845	
5,982.46	0.00	0.00	5,197.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
Vertical										
6,000.00	0.00	0.00	5,214.54	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
6,082.46	0.00	0.00	5,297.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
Top Gas - Approx. Top Gas										
6,500.00	0.00	0.00	5,714.54	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
7,000.00	0.00	0.00	6,214.54	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
7,172.46	0.00	0.00	6,387.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
Cameo Coals										
7,500.00	0.00	0.00	6,714.54	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
8,000.00	0.00	0.00	7,214.54	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
8,082.46	0.00	0.00	7,297.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
Rollins SS										
8,232.46	0.00	0.00	7,447.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	
TD at 8232.46 - 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	5,297.00	414.98	-2,584.22	1,604,273.63	2,300,342.63	39.46630	-107.97856	



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Wellbore:	Wellbore #1		
Design:	Plan #2 12Feb13 kjs		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
1,201.00	1,103.54	9 5/8"	9.625	13.500

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,225.44	1,897.00	Top of "G" Sand			
2,354.55	1,997.00	Base of "G" Sand			
4,803.85	4,037.00	Mesaverde			
6,082.46	5,297.00	Approx. Top Gas			
7,172.46	6,387.00	Cameo Coals			
8,082.46	7,297.00	Rollins SS			
8,232.46	7,447.00	TD			

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 4.00
1,100.94	1,026.04	51.21	-318.88	Hold 39.24 Inclination
3,366.63	2,780.89	278.43	-1,733.88	Start Drop -1.50
5,982.46	5,197.00	414.98	-2,584.22	Vertical
6,082.46	5,297.00	414.98	-2,584.22	Top Gas
8,232.46	7,447.00	414.98	-2,584.22	TD at 8232.46