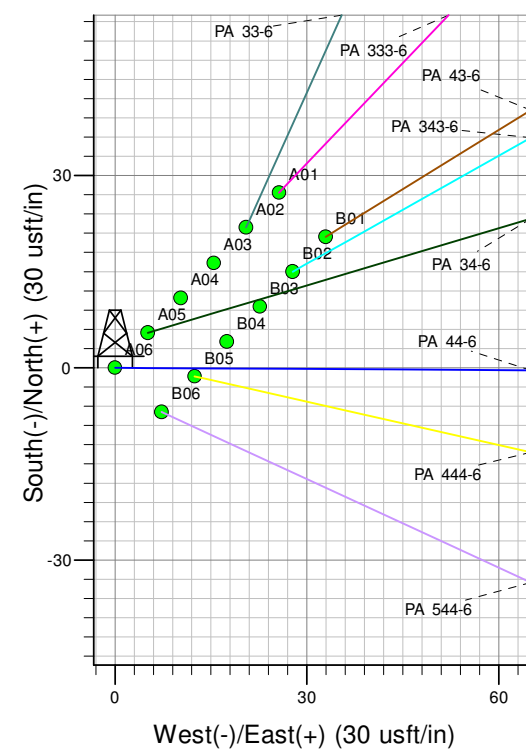
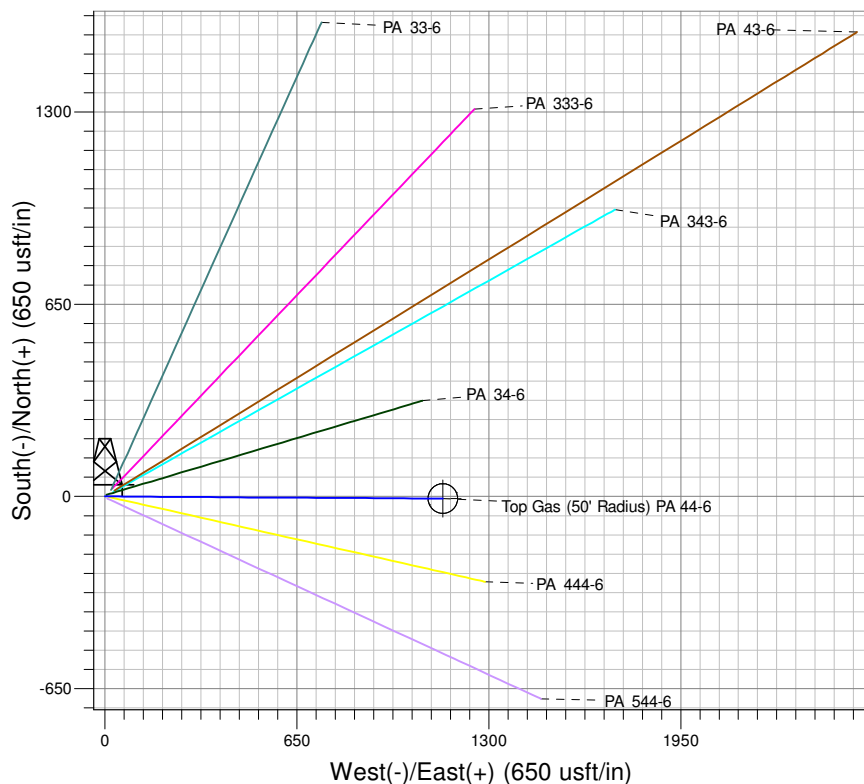
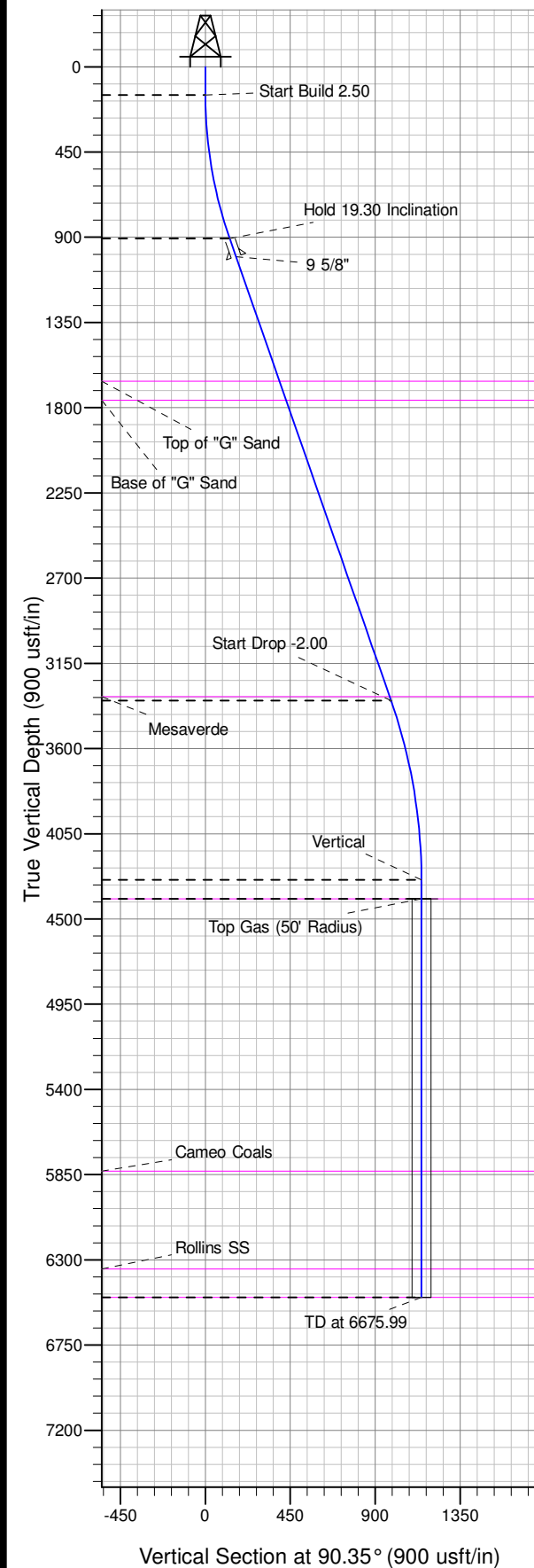




Well Name: PA 44-6
Surface Location: PA 24-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5135.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1603180.40	2282562.20	39.46195	-108.04140	A06

KELLY BUSHING @ 5160.00usft



Project: PA 06-07S-095W
Site: PA 24-6 Pad
Well: PA 44-6
Design #4 26Feb14 kjs



Azimuths to True North
Magnetic North: 10.19°
Magnetic Field
Strength: 52088.0snT
Dip Angle: 65.66°
Date: 11/19/2012
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.50
907.61	922.13	19.30	90.35	-0.79	128.84	128.84	128.84	Hold 19.30 Inclination
3346.99	3506.82	19.30	90.35	-6.01	983.24	983.26	983.26	Start Drop -2.00
4294.00	4471.99	0.00	0.00	-7.00	1144.29	1144.32	1144.32	Vertical
4394.00	4571.99	0.00	0.00	-7.00	1144.29	1144.32	1144.32	Top Gas
6498.00	6675.99	0.00	0.00	-7.00	1144.29	1144.32	1144.32	TD at 6675.99

PICEANCE VLY NAD 83

PA 06-07S-095W

PA 24-6 Pad

PA 44-6 - Slot A06

Wellbore #1

Plan: Design #4 26Feb14 kjs

Standard Planning Report - Geographic

13 March, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 44-6 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 44-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 26Feb14 kjs		

Project	PA 06-07S-095W, Garfield County, CO, 06-07S-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		PA 24-6 Pad			
Site Position:		Northing:	1,603,207.00 usft	Latitude:	39.46203
From:	Map	Easting:	2,282,588.60 usft	Longitude:	-108.04131
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.603 °

Well	PA 44-6 - Slot A06					
Well Position	+N/-S	0.00 usft	Northing:	1,603,180.40 usft	Latitude:	39.46195
	+E/-W	0.00 usft	Easting:	2,282,562.20 usft	Longitude:	-108.04140
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,135.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/19/2012	10.185	65.664	52,088

Design	Design #4 26Feb14 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	90.35

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	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.000	
922.13	19.30	90.35	907.61	-0.79	128.84	2.50	2.50	0.00	90.350	
3,506.82	19.30	90.35	3,346.99	-6.01	983.24	0.00	0.00	0.00	0.000	
4,471.99	0.00	0.00	4,294.00	-7.00	1,144.29	2.00	-2.00	0.00	180.000	
4,571.99	0.00	0.00	4,394.00	-7.00	1,144.29	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
6,675.99	0.00	0.00	6,498.00	-7.00	1,144.29	0.00	0.00	0.00	0.000	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 44-6 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 44-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 26Feb14 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	1,603,180.40	2,282,562.20	39.46195	-108.04140	
100.00	0.00	0.00	100.00	0.00	0.00	1,603,180.40	2,282,562.20	39.46195	-108.04140	
150.00	0.00	0.00	150.00	0.00	0.00	1,603,180.40	2,282,562.20	39.46195	-108.04140	
Start Build 2.50										
200.00	1.25	90.35	200.00	0.00	0.55	1,603,180.38	2,282,562.75	39.46195	-108.04140	
300.00	3.75	90.35	299.89	-0.03	4.91	1,603,180.23	2,282,567.10	39.46195	-108.04139	
400.00	6.25	90.35	399.50	-0.08	13.62	1,603,179.93	2,282,575.81	39.46195	-108.04136	
500.00	8.75	90.35	498.64	-0.16	26.67	1,603,179.49	2,282,588.86	39.46195	-108.04131	
600.00	11.25	90.35	597.11	-0.27	44.04	1,603,178.89	2,282,606.21	39.46195	-108.04125	
700.00	13.75	90.35	694.74	-0.40	65.68	1,603,178.16	2,282,627.84	39.46195	-108.04117	
800.00	16.25	90.35	791.32	-0.56	91.56	1,603,177.28	2,282,653.70	39.46195	-108.04108	
900.00	18.75	90.35	886.69	-0.74	121.62	1,603,176.25	2,282,683.75	39.46195	-108.04097	
922.13	19.30	90.35	907.61	-0.79	128.84	1,603,176.00	2,282,690.96	39.46195	-108.04095	
Hold 19.30 Inclination										
1,000.00	19.30	90.35	981.10	-0.95	154.58	1,603,175.13	2,282,716.69	39.46195	-108.04086	
1,023.00	19.30	90.35	1,002.81	-0.99	162.18	1,603,174.87	2,282,724.29	39.46195	-108.04083	
9 5/8"										
1,100.00	19.30	90.35	1,075.48	-1.15	187.64	1,603,174.00	2,282,749.72	39.46195	-108.04074	
1,200.00	19.30	90.35	1,169.85	-1.35	220.69	1,603,172.87	2,282,782.76	39.46195	-108.04062	
1,300.00	19.30	90.35	1,264.23	-1.55	253.75	1,603,171.75	2,282,815.80	39.46195	-108.04050	
1,400.00	19.30	90.35	1,358.61	-1.75	286.81	1,603,170.62	2,282,848.83	39.46195	-108.04039	
1,500.00	19.30	90.35	1,452.99	-1.96	319.86	1,603,169.49	2,282,881.87	39.46195	-108.04027	
1,600.00	19.30	90.35	1,547.37	-2.16	352.92	1,603,168.37	2,282,914.91	39.46195	-108.04015	
1,700.00	19.30	90.35	1,641.75	-2.36	385.97	1,603,167.24	2,282,947.94	39.46194	-108.04004	
1,720.40	19.30	90.35	1,661.00	-2.40	392.72	1,603,167.01	2,282,954.68	39.46194	-108.04001	
Top of "G" Sand										
1,800.00	19.30	90.35	1,736.12	-2.56	419.03	1,603,166.11	2,282,980.98	39.46194	-108.03992	
1,826.36	19.30	90.35	1,761.00	-2.62	427.74	1,603,165.82	2,282,989.69	39.46194	-108.03989	
Base of "G" Sand										
1,900.00	19.30	90.35	1,830.50	-2.76	452.09	1,603,164.99	2,283,014.01	39.46194	-108.03980	
2,000.00	19.30	90.35	1,924.88	-2.97	485.14	1,603,163.86	2,283,047.05	39.46194	-108.03969	
2,100.00	19.30	90.35	2,019.26	-3.17	518.20	1,603,162.73	2,283,080.09	39.46194	-108.03957	
2,200.00	19.30	90.35	2,113.64	-3.37	551.26	1,603,161.61	2,283,113.12	39.46194	-108.03945	
2,300.00	19.30	90.35	2,208.01	-3.57	584.31	1,603,160.48	2,283,146.16	39.46194	-108.03933	
2,400.00	19.30	90.35	2,302.39	-3.78	617.37	1,603,159.35	2,283,179.20	39.46194	-108.03922	
2,500.00	19.30	90.35	2,396.77	-3.98	650.43	1,603,158.23	2,283,212.23	39.46194	-108.03910	
2,600.00	19.30	90.35	2,491.15	-4.18	683.48	1,603,157.10	2,283,245.27	39.46194	-108.03898	
2,700.00	19.30	90.35	2,585.53	-4.38	716.54	1,603,155.97	2,283,278.30	39.46194	-108.03887	
2,800.00	19.30	90.35	2,679.91	-4.58	749.59	1,603,154.85	2,283,311.34	39.46194	-108.03875	
2,900.00	19.30	90.35	2,774.28	-4.79	782.65	1,603,153.72	2,283,344.38	39.46194	-108.03863	
3,000.00	19.30	90.35	2,868.66	-4.99	815.71	1,603,152.59	2,283,377.41	39.46194	-108.03851	
3,100.00	19.30	90.35	2,963.04	-5.19	848.76	1,603,151.47	2,283,410.45	39.46194	-108.03840	
3,200.00	19.30	90.35	3,057.42	-5.39	881.82	1,603,150.34	2,283,443.49	39.46194	-108.03828	
3,300.00	19.30	90.35	3,151.80	-5.59	914.88	1,603,149.21	2,283,476.52	39.46194	-108.03816	
3,400.00	19.30	90.35	3,246.17	-5.80	947.93	1,603,148.09	2,283,509.56	39.46194	-108.03805	
3,484.58	19.30	90.35	3,326.00	-5.97	975.89	1,603,147.14	2,283,537.50	39.46193	-108.03795	
Mesaverde										
3,500.00	19.30	90.35	3,340.55	-6.00	980.99	1,603,146.96	2,283,542.60	39.46193	-108.03793	
3,506.82	19.30	90.35	3,346.99	-6.01	983.24	1,603,146.88	2,283,544.85	39.46193	-108.03792	
Start Drop -2.00										
3,600.00	17.44	90.35	3,435.42	-6.19	1,012.61	1,603,145.88	2,283,574.20	39.46193	-108.03782	
3,700.00	15.44	90.35	3,531.32	-6.37	1,040.91	1,603,144.92	2,283,602.48	39.46193	-108.03772	
3,800.00	13.44	90.35	3,628.16	-6.52	1,065.84	1,603,144.07	2,283,627.40	39.46193	-108.03763	
3,900.00	11.44	90.35	3,725.81	-6.65	1,087.38	1,603,143.34	2,283,648.92	39.46193	-108.03755	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 44-6 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 44-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 26Feb14 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	
4,000.00	9.44	90.35	3,824.15	-6.76	1,105.50	1,603,142.72	2,283,667.03	39.46193	-108.03749	
4,100.00	7.44	90.35	3,923.06	-6.85	1,120.18	1,603,142.22	2,283,681.70	39.46193	-108.03744	
4,200.00	5.44	90.35	4,022.42	-6.92	1,131.39	1,603,141.84	2,283,692.91	39.46193	-108.03740	
4,300.00	3.44	90.35	4,122.12	-6.97	1,139.13	1,603,141.57	2,283,700.64	39.46193	-108.03737	
4,400.00	1.44	90.35	4,222.02	-6.99	1,143.39	1,603,141.43	2,283,704.90	39.46193	-108.03735	
4,471.99	0.00	0.00	4,294.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
Vertical										
4,500.00	0.00	0.00	4,322.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
4,571.99	0.00	0.00	4,394.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
Top Gas - Approx. Top Gas										
4,600.00	0.00	0.00	4,422.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
4,700.00	0.00	0.00	4,522.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
4,800.00	0.00	0.00	4,622.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
4,900.00	0.00	0.00	4,722.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,000.00	0.00	0.00	4,822.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,100.00	0.00	0.00	4,922.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,200.00	0.00	0.00	5,022.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,300.00	0.00	0.00	5,122.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,400.00	0.00	0.00	5,222.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,500.00	0.00	0.00	5,322.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,600.00	0.00	0.00	5,422.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,700.00	0.00	0.00	5,522.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,800.00	0.00	0.00	5,622.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
5,900.00	0.00	0.00	5,722.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,000.00	0.00	0.00	5,822.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,008.99	0.00	0.00	5,831.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
Cameo Coals										
6,100.00	0.00	0.00	5,922.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,200.00	0.00	0.00	6,022.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,300.00	0.00	0.00	6,122.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,400.00	0.00	0.00	6,222.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,500.00	0.00	0.00	6,322.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,525.99	0.00	0.00	6,348.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
Rollins SS										
6,600.00	0.00	0.00	6,422.01	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
6,675.99	0.00	0.00	6,498.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	
TD at 6675.99 - 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) PA - plan hits target center - Circle (radius 50.00)	0.00	0.00	4,394.00	-7.00	1,144.29	1,603,141.40	2,283,705.80	39.46193	-108.03735	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 44-6 - Slot A06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 44-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 26Feb14 kjs		

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,023.00	1,002.81	9 5/8"	9.625	12.250	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,720.40	1,661.00	Top of "G" Sand				
1,826.36	1,761.00	Base of "G" Sand				
3,484.58	3,326.00	Mesaverde				
4,571.99	4,394.00	Approx. Top Gas				
6,008.99	5,831.00	Cameo Coals				
6,525.99	6,348.00	Rollins SS				
6,675.99	6,498.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
150.00	150.00	0.00	0.00	Start Build 2.50	
922.13	907.61	-0.79	128.84	Hold 19.30 Inclination	
3,506.82	3,346.99	-6.01	983.24	Start Drop -2.00	
4,471.99	4,294.00	-7.00	1,144.29	Vertical	
4,571.99	4,394.00	-7.00	1,144.29	Top Gas	
6,675.99	6,498.00	-7.00	1,144.29	TD at 6675.99	