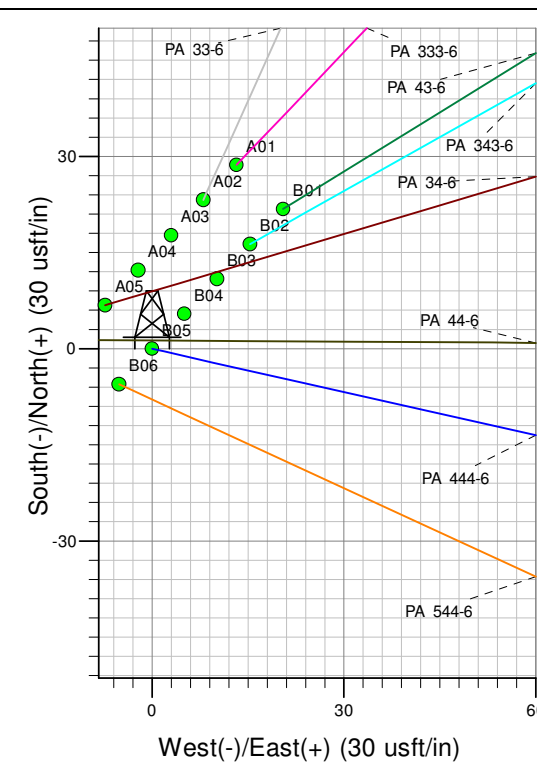
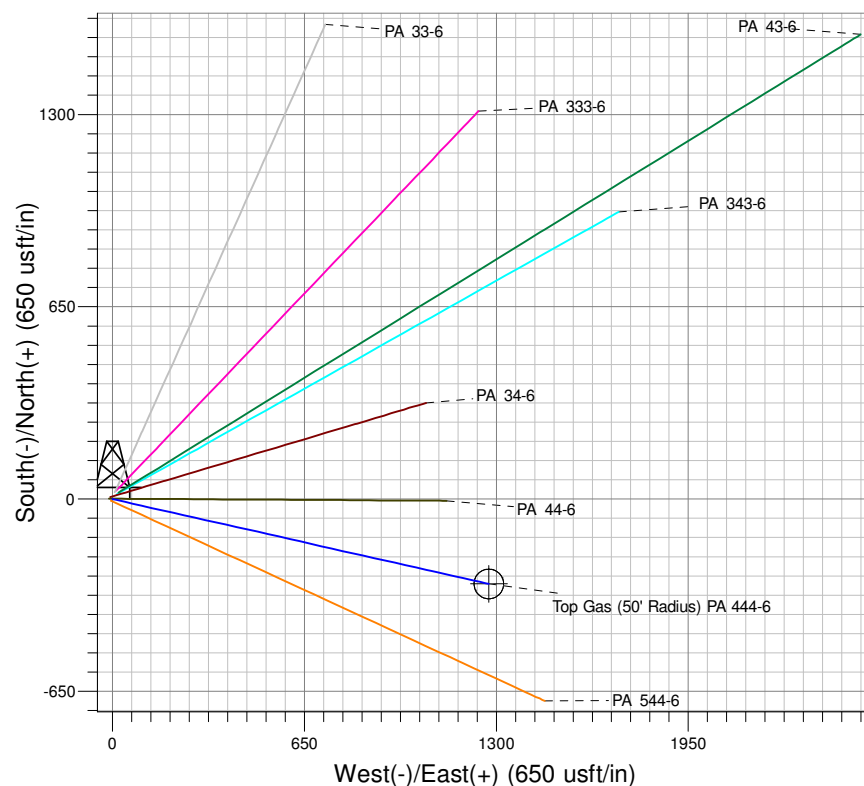
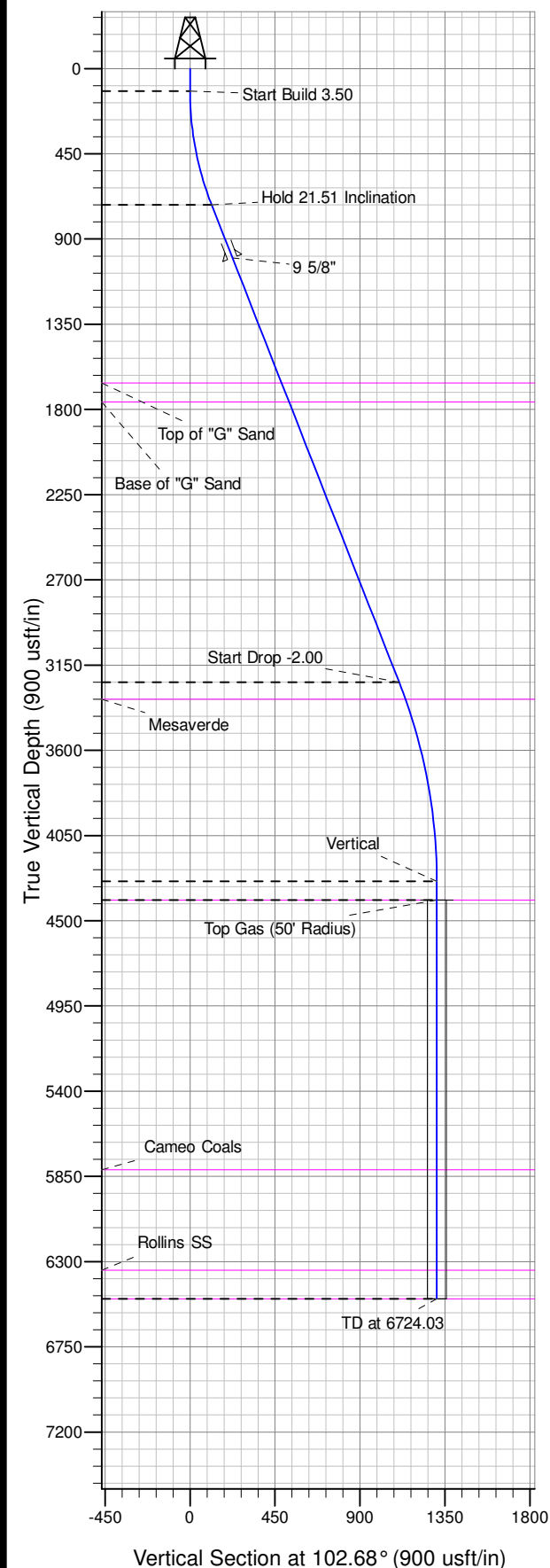




Well Name: PA 444-6
Surface Location: PA 24-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5135.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1603178.70	2282574.60	39.46195	-108.04136	B05

KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)



Project: PA 06-07S-095W
Site: PA 24-6 Pad
Well: PA 444-6
Design #4 26Feb14 kjs

Asimuths 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
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.50
720.14	734.47	21.51	102.68	-25.02	111.20	113.98	113.98	Hold 21.51 Inclination
3240.75	3443.70	21.51	102.68	-243.08	1080.19	1107.20	1107.20	Start Drop -2.00
4291.00	4519.03	0.00	0.00	-286.87	1274.78	1306.66	1306.66	Vertical
4391.00	4619.03	0.00	0.00	-286.87	1274.78	1306.66	1306.66	Top Gas
6496.00	6724.03	0.00	0.00	-286.87	1274.78	1306.66	1306.66	TD at 6724.03

PICEANCE VLY NAD 83

PA 06-07S-095W

PA 24-6 Pad

PA 444-6 - Slot B05

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 444-6 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 444-6	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 444-6 - Slot B05			
Well Position	+N/-S	0.00 usft	Northing:	1,603,178.70 usft
	+E/-W	0.00 usft	Easting:	2,282,574.60 usft
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	102.68

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	
734.47	21.51	102.68	720.14	-25.02	111.20	3.50	3.50	0.00	102.682	
3,443.70	21.51	102.68	3,240.75	-243.08	1,080.19	0.00	0.00	0.00	0.000	
4,519.03	0.00	0.00	4,291.00	-286.87	1,274.78	2.00	-2.00	0.00	180.000	
4,619.03	0.00	0.00	4,391.00	-286.87	1,274.78	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
6,724.03	0.00	0.00	6,496.00	-286.87	1,274.78	0.00	0.00	0.00	0.000	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 444-6 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 444-6	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	1,603,178.70	2,282,574.60	39.46195	-108.04136
100.00	0.00	0.00	100.00	0.00	0.00	1,603,178.70	2,282,574.60	39.46195	-108.04136
120.00	0.00	0.00	120.00	0.00	0.00	1,603,178.70	2,282,574.60	39.46195	-108.04136
Start Build 3.50									
200.00	2.80	102.68	199.97	-0.43	1.91	1,603,178.21	2,282,576.49	39.46195	-108.04135
300.00	6.30	102.68	299.64	-2.17	9.64	1,603,176.26	2,282,584.18	39.46194	-108.04133
400.00	9.80	102.68	398.64	-5.24	23.30	1,603,172.80	2,282,597.75	39.46193	-108.04128
500.00	13.30	102.68	496.60	-9.64	42.84	1,603,167.86	2,282,617.15	39.46192	-108.04121
600.00	16.80	102.68	593.15	-15.34	68.16	1,603,161.46	2,282,642.31	39.46191	-108.04112
700.00	20.30	102.68	687.94	-22.32	99.20	1,603,153.61	2,282,673.13	39.46189	-108.04101
734.47	21.51	102.68	720.14	-25.02	111.20	1,603,150.57	2,282,685.05	39.46188	-108.04097
Hold 21.51 Inclination									
800.00	21.51	102.68	781.11	-30.30	134.63	1,603,144.65	2,282,708.33	39.46186	-108.04088
900.00	21.51	102.68	874.15	-38.35	170.40	1,603,135.60	2,282,743.85	39.46184	-108.04076
1,000.00	21.51	102.68	967.18	-46.39	206.16	1,603,126.56	2,282,779.38	39.46182	-108.04063
1,035.27	21.51	102.68	1,000.00	-49.23	218.78	1,603,123.36	2,282,791.91	39.46181	-108.04058
9 5/8"									
1,100.00	21.51	102.68	1,060.22	-54.44	241.93	1,603,117.51	2,282,814.90	39.46180	-108.04050
1,200.00	21.51	102.68	1,153.26	-62.49	277.70	1,603,108.46	2,282,850.43	39.46178	-108.04038
1,300.00	21.51	102.68	1,246.30	-70.54	313.46	1,603,099.42	2,282,885.96	39.46175	-108.04025
1,400.00	21.51	102.68	1,339.34	-78.59	349.23	1,603,090.37	2,282,921.48	39.46173	-108.04012
1,500.00	21.51	102.68	1,432.37	-86.64	385.00	1,603,081.33	2,282,957.01	39.46171	-108.04000
1,600.00	21.51	102.68	1,525.41	-94.69	420.76	1,603,072.28	2,282,992.53	39.46169	-108.03987
1,700.00	21.51	102.68	1,618.45	-102.74	456.53	1,603,063.24	2,283,028.06	39.46167	-108.03974
1,745.74	21.51	102.68	1,661.00	-106.42	472.89	1,603,059.10	2,283,044.31	39.46166	-108.03968
Top of "G" Sand									
1,800.00	21.51	102.68	1,711.49	-110.78	492.30	1,603,054.19	2,283,063.58	39.46164	-108.03962
1,853.22	21.51	102.68	1,761.00	-115.07	511.33	1,603,049.38	2,283,082.49	39.46163	-108.03955
Base of "G" Sand									
1,900.00	21.51	102.68	1,804.52	-118.83	528.06	1,603,045.15	2,283,099.11	39.46162	-108.03949
2,000.00	21.51	102.68	1,897.56	-126.88	563.83	1,603,036.10	2,283,134.63	39.46160	-108.03936
2,100.00	21.51	102.68	1,990.60	-134.93	599.59	1,603,027.05	2,283,170.16	39.46158	-108.03924
2,200.00	21.51	102.68	2,083.64	-142.98	635.36	1,603,018.01	2,283,205.69	39.46156	-108.03911
2,300.00	21.51	102.68	2,176.67	-151.03	671.13	1,603,008.96	2,283,241.21	39.46153	-108.03898
2,400.00	21.51	102.68	2,269.71	-159.08	706.89	1,602,999.92	2,283,276.74	39.46151	-108.03886
2,500.00	21.51	102.68	2,362.75	-167.12	742.66	1,602,990.87	2,283,312.26	39.46149	-108.03873
2,600.00	21.51	102.68	2,455.79	-175.17	778.43	1,602,981.83	2,283,347.79	39.46147	-108.03860
2,700.00	21.51	102.68	2,548.82	-183.22	814.19	1,602,972.78	2,283,383.31	39.46144	-108.03848
2,800.00	21.51	102.68	2,641.86	-191.27	849.96	1,602,963.74	2,283,418.84	39.46142	-108.03835
2,900.00	21.51	102.68	2,734.90	-199.32	885.72	1,602,954.69	2,283,454.36	39.46140	-108.03822
3,000.00	21.51	102.68	2,827.94	-207.37	921.49	1,602,945.64	2,283,489.89	39.46138	-108.03810
3,100.00	21.51	102.68	2,920.97	-215.42	957.26	1,602,936.60	2,283,525.42	39.46136	-108.03797
3,200.00	21.51	102.68	3,014.01	-223.47	993.02	1,602,927.55	2,283,560.94	39.46133	-108.03784
3,300.00	21.51	102.68	3,107.05	-231.51	1,028.79	1,602,918.51	2,283,596.47	39.46131	-108.03772
3,400.00	21.51	102.68	3,200.09	-239.56	1,064.56	1,602,909.46	2,283,631.99	39.46129	-108.03759
3,443.70	21.51	102.68	3,240.75	-243.08	1,080.19	1,602,905.51	2,283,647.52	39.46128	-108.03753
Start Drop -2.00									
3,500.00	20.38	102.68	3,293.32	-247.50	1,099.82	1,602,900.54	2,283,667.02	39.46127	-108.03746
3,540.09	19.58	102.68	3,331.00	-250.51	1,113.18	1,602,897.16	2,283,680.29	39.46126	-108.03742
Mesaverde									
3,600.00	18.38	102.68	3,387.65	-254.78	1,132.19	1,602,892.36	2,283,699.17	39.46125	-108.03735
3,700.00	16.38	102.68	3,483.08	-261.34	1,161.33	1,602,884.99	2,283,728.12	39.46123	-108.03725

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 444-6 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 444-6	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
3,800.00	14.38	102.68	3,579.50	-267.16	1,187.21	1,602,878.44	2,283,753.82	39.46121	-108.03715
3,900.00	12.38	102.68	3,676.78	-272.24	1,209.78	1,602,872.73	2,283,776.24	39.46120	-108.03707
4,000.00	10.38	102.68	3,774.81	-276.58	1,229.03	1,602,867.87	2,283,795.36	39.46119	-108.03701
4,100.00	8.38	102.68	3,873.46	-280.15	1,244.93	1,602,863.84	2,283,811.16	39.46118	-108.03695
4,200.00	6.38	102.68	3,972.63	-282.97	1,257.47	1,602,860.67	2,283,823.60	39.46117	-108.03691
4,300.00	4.38	102.68	4,072.18	-285.03	1,266.61	1,602,858.36	2,283,832.69	39.46117	-108.03687
4,400.00	2.38	102.68	4,172.00	-286.33	1,272.37	1,602,856.91	2,283,838.41	39.46116	-108.03685
4,500.00	0.38	102.68	4,271.97	-286.86	1,274.72	1,602,856.31	2,283,840.74	39.46116	-108.03684
4,519.03	0.00	0.00	4,291.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
Vertical									
4,600.00	0.00	0.00	4,371.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
4,619.03	0.00	0.00	4,391.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
Top Gas - Approx. Top Gas									
4,700.00	0.00	0.00	4,471.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
4,800.00	0.00	0.00	4,571.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
4,900.00	0.00	0.00	4,671.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,000.00	0.00	0.00	4,771.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,100.00	0.00	0.00	4,871.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,200.00	0.00	0.00	4,971.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,300.00	0.00	0.00	5,071.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,400.00	0.00	0.00	5,171.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,500.00	0.00	0.00	5,271.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,600.00	0.00	0.00	5,371.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,700.00	0.00	0.00	5,471.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,800.00	0.00	0.00	5,571.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
5,900.00	0.00	0.00	5,671.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,000.00	0.00	0.00	5,771.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,044.03	0.00	0.00	5,816.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
Cameo Coals									
6,100.00	0.00	0.00	5,871.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,200.00	0.00	0.00	5,971.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,300.00	0.00	0.00	6,071.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,400.00	0.00	0.00	6,171.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,500.00	0.00	0.00	6,271.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,574.03	0.00	0.00	6,346.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
Rollins SS									
6,600.00	0.00	0.00	6,371.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,700.00	0.00	0.00	6,471.97	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
6,724.03	0.00	0.00	6,496.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
TD at 6724.03 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (50' Radius) PA	0.00	0.00	4,391.00	-286.87	1,274.78	1,602,856.30	2,283,840.80	39.46116	-108.03684
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 50.00)									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 444-6 - Slot B05
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BYUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 444-6	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)	
1,035.27	1,000.00	9 5/8"	9.625	12.250	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,745.74	1,661.00	Top of "G" Sand				
1,853.22	1,761.00	Base of "G" Sand				
3,540.09	3,331.00	Mesaverde				
4,619.03	4,391.00	Approx. Top Gas				
6,044.03	5,816.00	Cameo Coals				
6,574.03	6,346.00	Rollins SS				
6,724.03	6,496.00	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 3.50	
734.47	720.14	-25.02	111.20	Hold 21.51 Inclination	
3,443.70	3,240.75	-243.08	1,080.19	Start Drop -2.00	
4,519.03	4,291.00	-286.87	1,274.78	Vertical	
4,619.03	4,391.00	-286.87	1,274.78	Top Gas	
6,724.03	6,496.00	-286.87	1,274.78	TD at 6724.03	