



+N/-S
0.00

+E/-W
0.00

Northing
1603173.30

Easting
2282569.30

Latitude
39.46193

Longitude
-108.04137

Slot
B06

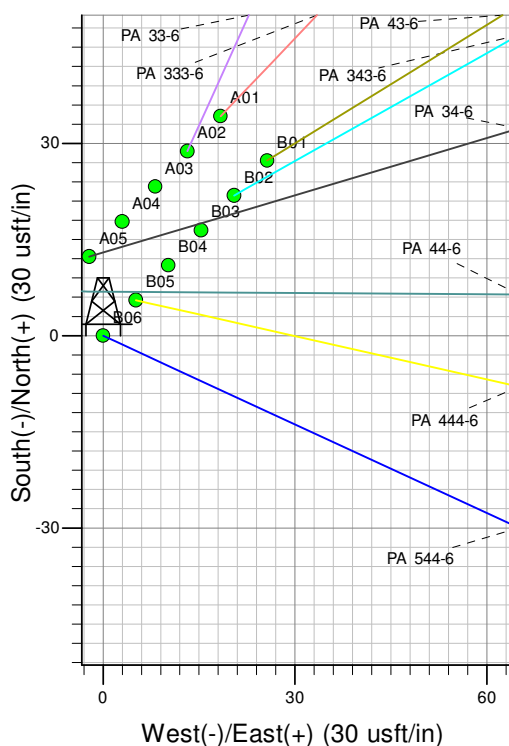
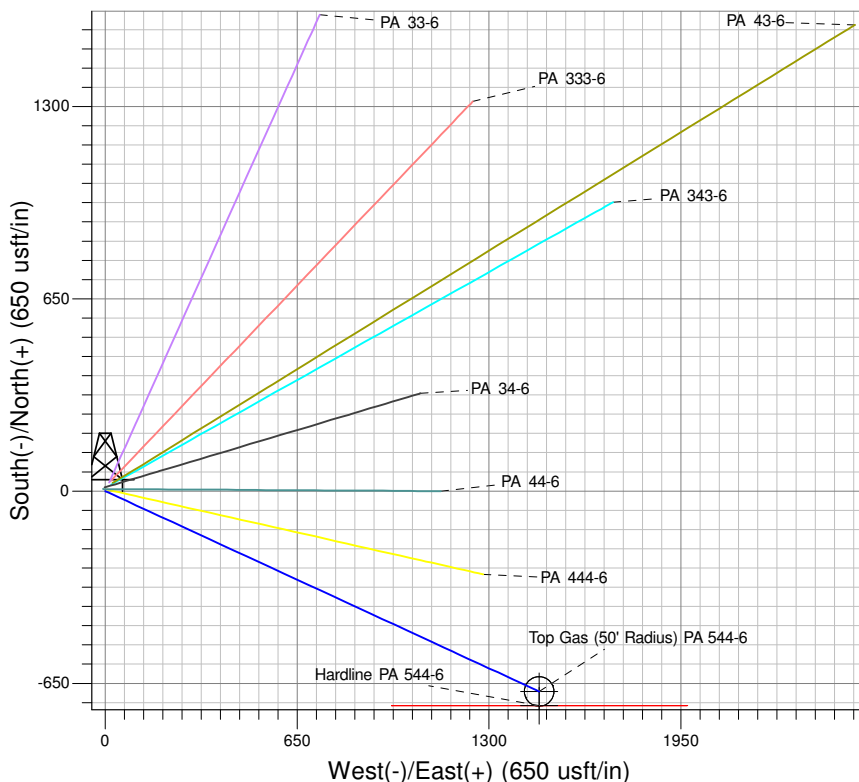
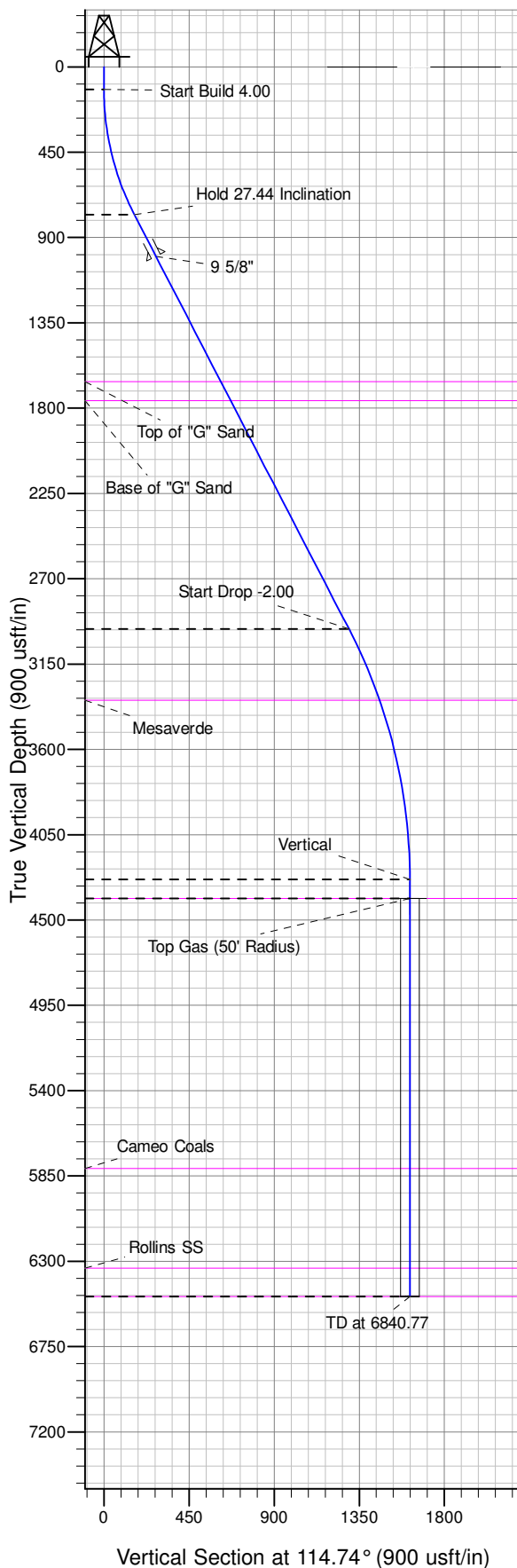
Well Name: PA 544-6

Surface Location: PA 24-6 Pad

North American Datum 1983 , US State Plane 1983 , Colorado Central Zone

Ground Elevation: 5135.00

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



Project: PA 06-07S-095W
Site: PA 24-6 Pad
Well: PA 544-6
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
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 4.00
779.98	805.90	27.44	114.74	-67.42	146.32	161.11	161.11	Hold 27.44 Inclination
2966.03	3268.98	27.44	114.74	-542.35	1177.04	1295.98	1295.98	Start Drop -2.00
4286.00	4640.77	0.00	0.00	-677.19	1469.68	1618.19	1618.19	Vertical
4386.00	4740.77	0.00	0.00	-677.19	1469.68	1618.19	1618.19	Top Gas
6486.00	6840.77	0.00	0.00	-677.19	1469.68	1618.19	1618.19	TD at 6840.77

PICEANCE VLY NAD 83

PA 06-07S-095W

PA 24-6 Pad

PA 544-6 - Slot B06

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 544-6 - Slot B06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 544-6	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 544-6 - Slot B06			
Well Position	+N/-S	0.00 usft	Northing:	1,603,173.30 usft
	+E/-W	0.00 usft	Easting:	2,282,569.30 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	114.74

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	
805.90	27.44	114.74	779.98	-67.42	146.32	4.00	4.00	0.00	114.739	
3,268.98	27.44	114.74	2,966.03	-542.35	1,177.04	0.00	0.00	0.00	0.000	
4,640.77	0.00	0.00	4,286.00	-677.19	1,469.68	2.00	-2.00	0.00	180.000	
4,740.77	0.00	0.00	4,386.00	-677.19	1,469.68	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
6,840.77	0.00	0.00	6,486.00	-677.19	1,469.68	0.00	0.00	0.00	0.000	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 544-6 - Slot B06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 544-6	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	1,603,173.30	2,282,569.30	39.46193	-108.04138
100.00	0.00	0.00	100.00	0.00	0.00	1,603,173.30	2,282,569.30	39.46193	-108.04138
120.00	0.00	0.00	120.00	0.00	0.00	1,603,173.30	2,282,569.30	39.46193	-108.04138
Start Build 4.00									
200.00	3.20	114.74	199.96	-0.93	2.03	1,603,172.30	2,282,571.30	39.46193	-108.04137
300.00	7.20	114.74	299.53	-4.73	10.26	1,603,168.28	2,282,579.42	39.46192	-108.04134
400.00	11.20	114.74	398.22	-11.42	24.78	1,603,161.19	2,282,593.75	39.46190	-108.04129
500.00	15.20	114.74	495.56	-20.97	45.51	1,603,151.06	2,282,614.21	39.46187	-108.04122
600.00	19.20	114.74	591.07	-33.34	72.36	1,603,137.94	2,282,640.70	39.46184	-108.04112
700.00	23.20	114.74	684.28	-48.47	105.20	1,603,121.90	2,282,673.10	39.46180	-108.04100
800.00	27.20	114.74	774.74	-66.29	143.86	1,603,103.01	2,282,711.25	39.46175	-108.04087
805.90	27.44	114.74	779.98	-67.42	146.32	1,603,101.81	2,282,713.67	39.46175	-108.04086
Hold 27.44 Inclination									
900.00	27.44	114.74	863.50	-85.57	185.70	1,603,082.57	2,282,752.53	39.46170	-108.04072
1,000.00	27.44	114.74	952.26	-104.85	227.55	1,603,062.13	2,282,793.82	39.46164	-108.04057
1,053.79	27.44	114.74	1,000.00	-115.22	250.06	1,603,051.13	2,282,816.03	39.46162	-108.04049
9 5/8"									
1,100.00	27.44	114.74	1,041.01	-124.13	269.39	1,603,041.69	2,282,835.10	39.46159	-108.04042
1,200.00	27.44	114.74	1,129.76	-143.41	311.24	1,603,021.24	2,282,876.39	39.46154	-108.04028
1,300.00	27.44	114.74	1,218.51	-162.69	353.09	1,603,000.80	2,282,917.68	39.46149	-108.04013
1,400.00	27.44	114.74	1,307.27	-181.97	394.93	1,602,980.35	2,282,958.97	39.46143	-108.03998
1,500.00	27.44	114.74	1,396.02	-201.26	436.78	1,602,959.91	2,283,000.26	39.46138	-108.03983
1,600.00	27.44	114.74	1,484.77	-220.54	478.63	1,602,939.47	2,283,041.55	39.46133	-108.03968
1,700.00	27.44	114.74	1,573.52	-239.82	520.47	1,602,919.02	2,283,082.84	39.46127	-108.03953
1,798.56	27.44	114.74	1,661.00	-258.82	561.72	1,602,898.87	2,283,123.54	39.46122	-108.03939
Top of "G" Sand									
1,800.00	27.44	114.74	1,662.28	-259.10	562.32	1,602,898.58	2,283,124.13	39.46122	-108.03939
1,900.00	27.44	114.74	1,751.03	-278.38	604.17	1,602,878.13	2,283,165.42	39.46117	-108.03924
1,911.23	27.44	114.74	1,761.00	-280.55	608.87	1,602,875.84	2,283,170.06	39.46116	-108.03922
Base of "G" Sand									
2,000.00	27.44	114.74	1,839.78	-297.67	646.01	1,602,857.69	2,283,206.71	39.46112	-108.03909
2,100.00	27.44	114.74	1,928.54	-316.95	687.86	1,602,837.25	2,283,248.00	39.46106	-108.03894
2,200.00	27.44	114.74	2,017.29	-336.23	729.71	1,602,816.80	2,283,289.29	39.46101	-108.03879
2,300.00	27.44	114.74	2,106.04	-355.51	771.56	1,602,796.36	2,283,330.58	39.46096	-108.03864
2,400.00	27.44	114.74	2,194.79	-374.79	813.40	1,602,775.92	2,283,371.87	39.46090	-108.03850
2,500.00	27.44	114.74	2,283.55	-394.08	855.25	1,602,755.47	2,283,413.16	39.46085	-108.03835
2,600.00	27.44	114.74	2,372.30	-413.36	897.10	1,602,735.03	2,283,454.44	39.46080	-108.03820
2,700.00	27.44	114.74	2,461.05	-432.64	938.94	1,602,714.58	2,283,495.73	39.46074	-108.03805
2,800.00	27.44	114.74	2,549.80	-451.92	980.79	1,602,694.14	2,283,537.02	39.46069	-108.03790
2,900.00	27.44	114.74	2,638.56	-471.20	1,022.64	1,602,673.70	2,283,578.31	39.46064	-108.03776
3,000.00	27.44	114.74	2,727.31	-490.48	1,064.48	1,602,653.25	2,283,619.60	39.46059	-108.03761
3,100.00	27.44	114.74	2,816.06	-509.77	1,106.33	1,602,632.81	2,283,660.89	39.46053	-108.03746
3,200.00	27.44	114.74	2,904.82	-529.05	1,148.18	1,602,612.36	2,283,702.18	39.46048	-108.03731
3,268.98	27.44	114.74	2,966.03	-542.35	1,177.04	1,602,598.26	2,283,730.66	39.46044	-108.03721
Start Drop -2.00									
3,300.00	26.82	114.74	2,993.65	-548.27	1,189.89	1,602,591.99	2,283,743.34	39.46043	-108.03716
3,400.00	24.82	114.74	3,083.66	-566.49	1,229.44	1,602,572.66	2,283,782.36	39.46038	-108.03702
3,500.00	22.82	114.74	3,175.14	-583.39	1,266.11	1,602,554.75	2,283,818.54	39.46033	-108.03689
3,600.00	20.82	114.74	3,267.98	-598.94	1,299.86	1,602,538.26	2,283,851.84	39.46029	-108.03677
3,677.73	19.26	114.74	3,341.00	-610.08	1,324.05	1,602,526.44	2,283,875.71	39.46026	-108.03669
Mesaverde									
3,700.00	18.82	114.74	3,362.05	-613.12	1,330.64	1,602,523.22	2,283,882.22	39.46025	-108.03666

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 544-6 - Slot B06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 544-6	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	16.82	114.74	3,457.25	-625.93	1,358.43	1,602,509.65	2,283,909.63	39.46021	-108.03657
3,900.00	14.82	114.74	3,553.46	-637.33	1,383.18	1,602,497.55	2,283,934.05	39.46018	-108.03648
4,000.00	12.82	114.74	3,650.56	-647.32	1,404.87	1,602,486.96	2,283,955.45	39.46016	-108.03640
4,100.00	10.82	114.74	3,748.44	-655.89	1,423.46	1,602,477.87	2,283,973.80	39.46013	-108.03634
4,200.00	8.82	114.74	3,846.97	-663.03	1,438.95	1,602,470.31	2,283,989.08	39.46011	-108.03628
4,300.00	6.82	114.74	3,946.03	-668.72	1,451.30	1,602,464.28	2,284,001.26	39.46010	-108.03624
4,400.00	4.82	114.74	4,045.52	-672.96	1,460.50	1,602,459.78	2,284,010.34	39.46008	-108.03620
4,500.00	2.82	114.74	4,145.29	-675.74	1,466.54	1,602,456.83	2,284,016.30	39.46008	-108.03618
4,600.00	0.82	114.74	4,245.23	-677.07	1,469.42	1,602,455.42	2,284,019.14	39.46007	-108.03617
4,640.77	0.00	0.00	4,286.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
Vertical									
4,700.00	0.00	0.00	4,345.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
4,740.77	0.00	0.00	4,386.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
Top Gas - Approx. Top Gas									
4,800.00	0.00	0.00	4,445.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
4,900.00	0.00	0.00	4,545.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,000.00	0.00	0.00	4,645.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,100.00	0.00	0.00	4,745.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,200.00	0.00	0.00	4,845.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,300.00	0.00	0.00	4,945.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,400.00	0.00	0.00	5,045.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,500.00	0.00	0.00	5,145.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,600.00	0.00	0.00	5,245.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,700.00	0.00	0.00	5,345.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,800.00	0.00	0.00	5,445.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
5,900.00	0.00	0.00	5,545.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,000.00	0.00	0.00	5,645.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,100.00	0.00	0.00	5,745.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,165.77	0.00	0.00	5,811.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
Cameo Coals									
6,200.00	0.00	0.00	5,845.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,300.00	0.00	0.00	5,945.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,400.00	0.00	0.00	6,045.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,500.00	0.00	0.00	6,145.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,600.00	0.00	0.00	6,245.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,690.77	0.00	0.00	6,336.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
Rollins SS									
6,700.00	0.00	0.00	6,345.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,800.00	0.00	0.00	6,445.23	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
6,840.77	0.00	0.00	6,486.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
TD at 6840.77 - 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) PA	0.00	0.00	4,386.00	-677.19	1,469.68	1,602,455.30	2,284,019.40	39.46007	-108.03617
- plan hits target center									
- Circle (radius 50.00)									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 544-6 - Slot B06
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Project:	PA 06-07S-095W	MD Reference:	KELLY BUSHING @ 5160.00usft (Aztec 1000 (25' RKB) kjs)
Site:	PA 24-6 Pad	North Reference:	True
Well:	PA 544-6	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)	
1,053.79	1,000.00	9 5/8"	9.625	12.250	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,798.56	1,661.00	Top of "G" Sand				
1,911.23	1,761.00	Base of "G" Sand				
3,677.73	3,341.00	Mesaverde				
4,740.77	4,386.00	Approx. Top Gas				
6,165.77	5,811.00	Cameo Coals				
6,690.77	6,336.00	Rollins SS				
6,840.77	6,486.00	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 4.00	
805.90	779.98	-67.42	146.32	Hold 27.44 Inclination	
3,268.98	2,966.03	-542.35	1,177.04	Start Drop -2.00	
4,640.77	4,286.00	-677.19	1,469.68	Vertical	
4,740.77	4,386.00	-677.19	1,469.68	Top Gas	
6,840.77	6,486.00	-677.19	1,469.68	TD at 6840.77	