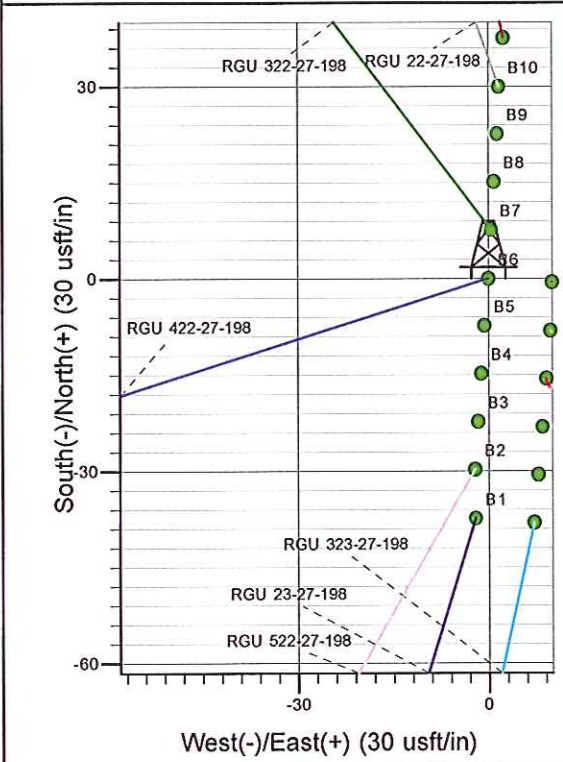
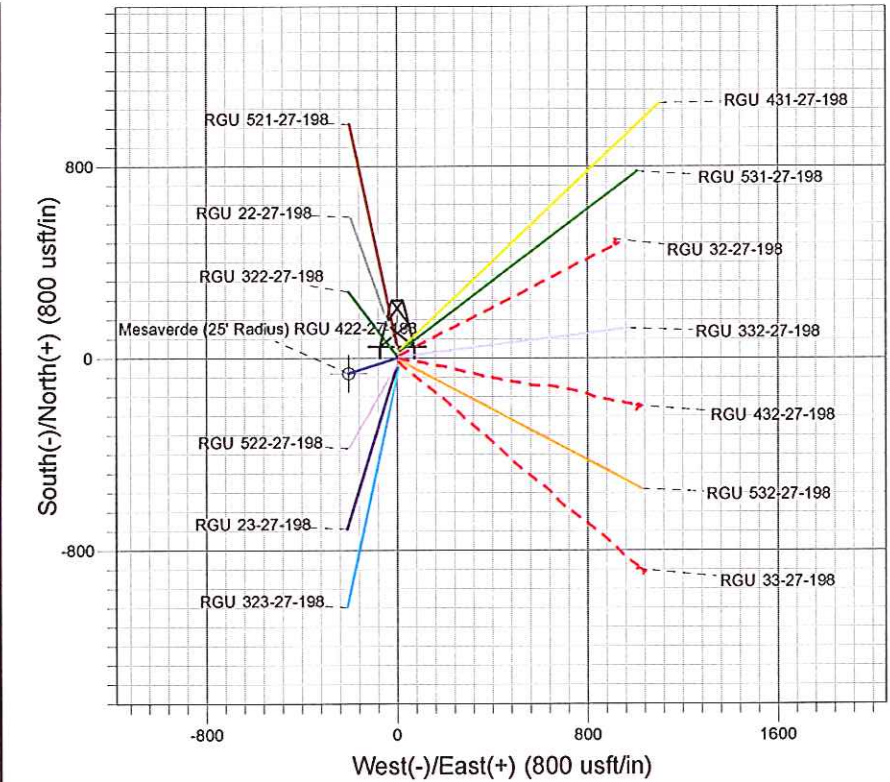
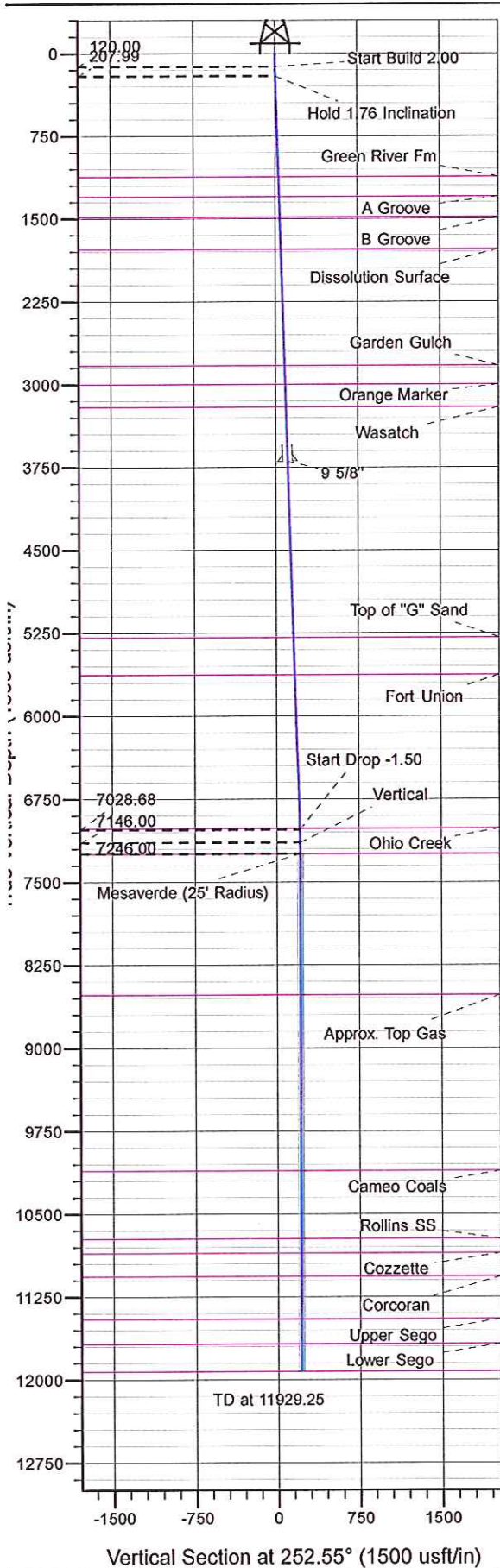




Surface Location: RGU 22-27-198 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6560.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1778671.30	2192493.90	39.93613	-108.37995	B6

KELLY BUSHING @ 6581.00usft (Cyclone 29)



Project: RG 27-01S-098W
Site: RGU 22-27-198 Pad
Well: RGU 422-27-198
Plan #2 31Oct12 kjs

Azimuths to True North
Magnetic North: 11.07°
Magnetic Field
Strength: 52843.5nT
Dip Angle: 66.14°
Date: 8/2/2007
Model: IGRF2005-10

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00	
208.00	1.76	252.55	207.99	-0.41	-1.29	1.35	1.35	Hold 1.76 Inclination	
7031.91	1.76	252.55	7028.68	-63.27	-201.33	211.03	211.03	Start Drop -1.50	
7149.25	0.00	0.00	7146.00	-63.81	-203.05	212.84	212.84	Vertical	
7249.25	0.00	0.00	7246.00	-63.81	-203.05	212.84	212.84	Mesaverde	
11929.25	0.00	0.00	11926.00	-63.81	-203.05	212.84	212.84	TD at 11929.25	



PICEANCE HL NAD 83

RG 27-01S-098W

RGU 22-27-198 Pad

RGU 422-27-198 - Slot B6

RGU 422-27-198

Plan: Plan #2 31Oct12 kjs

Standard Planning Report - Geographic

25 January, 2013



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 422-27-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Project:	RG 27-01S-098W	MD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Site:	RGU 22-27-198 Pad	North Reference:	True
Well:	RGU 422-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 422-27-198		
Design:	Plan #2 31Oct12 kjs		

Project	RG 27-01S-098W, Rio Blanco County, CO, RG 27-01S-098W		
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	RGU 22-27-198 Pad			
Site Position:		Northing:	1,778,610.70 usft	Latitude: 39.93596
From:	Map	Easting:	2,192,498.60 usft	Longitude: -108.37993
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.82 °

Well	RGU 422-27-198 - Slot B6			
Well Position	+N/-S	0.00 usft	Northing:	1,778,671.30 usft
	+E/-W	0.00 usft	Easting:	2,192,493.90 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	
			Ground Level:	6,560.00 usft

Wellbore	RGU 422-27-198				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	8/2/2007	11.07	66.14	52,844

Design	Plan #2 31Oct12 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	252.55

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	0.00	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
208.04	1.76	252.55	208.03	-0.41	-1.29	2.00	2.00	0.00	252.55	
7,031.87	1.76	252.55	7,028.63	-63.27	-201.33	0.00	0.00	0.00	0.00	
7,149.25	0.00	0.00	7,146.00	-63.81	-203.05	1.50	-1.50	0.00	180.00	
7,249.25	0.00	0.00	7,246.00	-63.81	-203.05	0.00	0.00	0.00	0.00	Mesaverde (25' Radiu
11,929.25	0.00	0.00	11,926.00	-63.81	-203.05	0.00	0.00	0.00	0.00	



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 422-27-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Project:	RG 27-01S-098W	MD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Site:	RGU 22-27-198 Pad	North Reference:	True
Well:	RGU 422-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 422-27-198		
Design:	Plan #2 31Oct12 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	1,778,671.30	2,192,493.90	39.93613	-108.37995
120.00	0.00	0.00	120.00	0.00	0.00	1,778,671.30	2,192,493.90	39.93613	-108.37995
Start Build 2.00									
208.00	1.76	252.55	207.99	-0.41	-1.29	1,778,670.94	2,192,492.60	39.93613	-108.37996
Hold 1.76 Inclination									
208.04	1.76	252.55	208.03	-0.41	-1.29	1,778,670.94	2,192,492.60	39.93613	-108.37996
500.00	1.76	252.55	499.85	-3.10	-9.85	1,778,668.52	2,192,483.96	39.93612	-108.37999
1,000.00	1.76	252.55	999.61	-7.70	-24.51	1,778,664.38	2,192,469.16	39.93611	-108.38004
1,119.44	1.76	252.55	1,119.00	-8.80	-28.01	1,778,663.39	2,192,465.63	39.93610	-108.38005
Green River Fm									
1,301.53	1.76	252.55	1,301.00	-10.48	-33.35	1,778,661.88	2,192,460.24	39.93610	-108.38007
A Groove									
1,486.62	1.76	252.55	1,486.00	-12.18	-38.77	1,778,660.35	2,192,454.76	39.93610	-108.38009
B Groove									
1,500.00	1.76	252.55	1,499.38	-12.31	-39.16	1,778,660.24	2,192,454.36	39.93609	-108.38009
1,776.75	1.76	252.55	1,776.00	-14.86	-47.28	1,778,657.95	2,192,446.17	39.93609	-108.38012
Dissolution Surface									
2,000.00	1.76	252.55	1,999.14	-16.91	-53.82	1,778,656.10	2,192,439.57	39.93608	-108.38015
2,500.00	1.76	252.55	2,498.90	-21.52	-68.48	1,778,651.96	2,192,424.77	39.93607	-108.38020
2,832.25	1.76	252.55	2,831.00	-24.58	-78.22	1,778,649.21	2,192,414.94	39.93606	-108.38023
Garden Gulch									
3,000.00	1.76	252.55	2,998.67	-26.13	-83.13	1,778,647.82	2,192,409.97	39.93606	-108.38025
3,002.33	1.76	252.55	3,001.00	-26.15	-83.20	1,778,647.80	2,192,409.91	39.93606	-108.38025
Orange Marker									
3,207.43	1.76	252.55	3,206.00	-28.04	-89.22	1,778,646.10	2,192,403.84	39.93605	-108.38027
Wasatch									
3,500.00	1.76	252.55	3,498.43	-30.73	-97.79	1,778,643.68	2,192,395.18	39.93604	-108.38030
3,697.66	1.76	252.55	3,696.00	-32.55	-103.59	1,778,642.05	2,192,389.33	39.93604	-108.38032
9 5/8"									
4,000.00	1.76	252.55	3,998.20	-35.34	-112.45	1,778,639.54	2,192,380.38	39.93603	-108.38036
4,500.00	1.76	252.55	4,497.96	-39.94	-127.11	1,778,635.40	2,192,365.59	39.93602	-108.38041
5,000.00	1.76	252.55	4,997.72	-44.55	-141.76	1,778,631.26	2,192,350.79	39.93601	-108.38046
5,293.42	1.76	252.55	5,291.00	-47.25	-150.36	1,778,628.84	2,192,342.11	39.93600	-108.38049
Top of "G" Sand									
5,500.00	1.76	252.55	5,497.49	-49.16	-156.42	1,778,627.13	2,192,335.99	39.93599	-108.38051
5,631.57	1.76	252.55	5,629.00	-50.37	-160.28	1,778,626.04	2,192,332.10	39.93599	-108.38053
Fort Union									
6,000.00	1.76	252.55	5,997.25	-53.76	-171.08	1,778,622.99	2,192,321.20	39.93598	-108.38056
6,500.00	1.76	252.55	6,497.02	-58.37	-185.73	1,778,618.85	2,192,306.40	39.93597	-108.38062
7,000.00	1.76	252.55	6,996.78	-62.97	-200.39	1,778,614.71	2,192,291.60	39.93596	-108.38067
7,019.23	1.76	252.55	7,016.00	-63.15	-200.96	1,778,614.55	2,192,291.03	39.93596	-108.38067
Ohio Creek									
7,031.87	1.76	252.55	7,028.63	-63.27	-201.33	1,778,614.44	2,192,290.66	39.93595	-108.38067
7,031.91	1.76	252.55	7,028.68	-63.27	-201.33	1,778,614.44	2,192,290.66	39.93595	-108.38067
Start Drop -1.50									
7,149.25	0.00	0.00	7,146.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Vertical									
7,249.25	0.00	0.00	7,246.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Mesaverde - Mesaverde									
7,500.00	0.00	0.00	7,496.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
8,000.00	0.00	0.00	7,996.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 422-27-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Project:	RG 27-01S-098W	MD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Site:	RGU 22-27-198 Pad	North Reference:	True
Well:	RGU 422-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 422-27-198		
Design:	Plan #2 31Oct12 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
8,500.00	0.00	0.00	8,496.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
8,524.25	0.00	0.00	8,521.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Approx. Top Gas									
9,000.00	0.00	0.00	8,996.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
9,500.00	0.00	0.00	9,496.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
10,000.00	0.00	0.00	9,996.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
10,114.25	0.00	0.00	10,111.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Cameo Coals									
10,500.00	0.00	0.00	10,496.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
10,729.25	0.00	0.00	10,726.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Rollins SS									
10,857.25	0.00	0.00	10,854.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Cozzette									
11,000.00	0.00	0.00	10,996.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
11,069.25	0.00	0.00	11,066.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Corcoran									
11,454.25	0.00	0.00	11,451.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Upper Sego									
11,500.00	0.00	0.00	11,496.75	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
11,679.25	0.00	0.00	11,676.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
Lower Sego									
11,929.24	0.00	0.00	11,925.99	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
TD									
11,929.25	0.00	0.00	11,926.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
TD at 11929.25									

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									
Mesaverde (25' Radius)	0.00	0.00	7,246.00	-63.81	-203.05	1,778,613.96	2,192,288.92	39.93595	-108.38068
- plan hits target center									
- Circle (radius 25.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,697.66	3,696.00	9 5/8"	9.625	13.500



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 422-27-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Project:	RG 27-01S-098W	MD Reference:	KELLY BUSHING @ 6581.00usft (Cyclone 29)
Site:	RGU 22-27-198 Pad	North Reference:	True
Well:	RGU 422-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 422-27-198		
Design:	Plan #2 31Oct12 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,119.44	1,119.00	Green River Fm				
1,301.53	1,301.00	A Groove				
1,486.62	1,486.00	B Groove				
1,776.75	1,776.00	Dissolution Surface				
2,832.25	2,831.00	Garden Gulch				
3,002.33	3,001.00	Orange Marker				
3,207.43	3,206.00	Wasatch				
5,293.42	5,291.00	Top of "G" Sand				
5,631.57	5,629.00	Fort Union				
7,019.23	7,016.00	Ohio Creek				
7,249.25	7,246.00	Mesaverde				
8,524.25	8,521.00	Approx. Top Gas				
10,114.25	10,111.00	Cameo Coals				
10,729.25	10,726.00	Rollins SS				
10,857.25	10,854.00	Cozzette				
11,069.25	11,066.00	Corcoran				
11,454.25	11,451.00	Upper Sego				
11,679.25	11,676.00	Lower Sego				
11,929.24	11,925.99	TD		0.00		

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 2.00	
208.00	207.99	-0.41	-1.29	Hold 1.76 Inclination	
7,031.91	7,028.68	-63.27	-201.33	Start Drop -1.50	
7,149.25	7,146.00	-63.81	-203.05	Vertical	
7,249.25	7,246.00	-63.81	-203.05	Mesaverde	
11,929.25	11,926.00	-63.81	-203.05	TD at 11929.25	