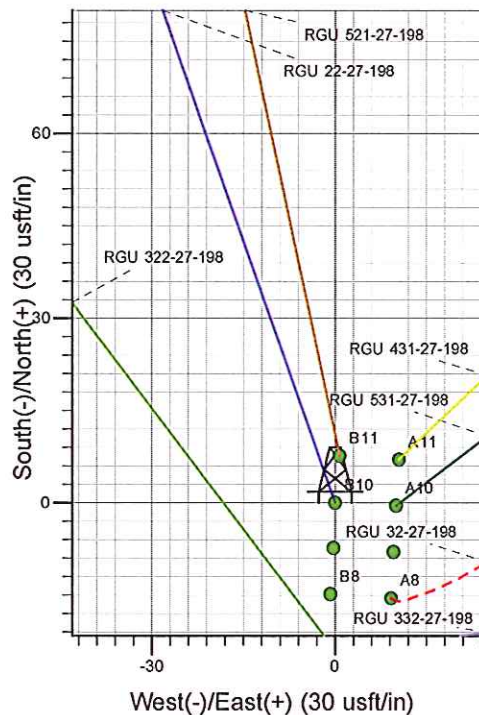
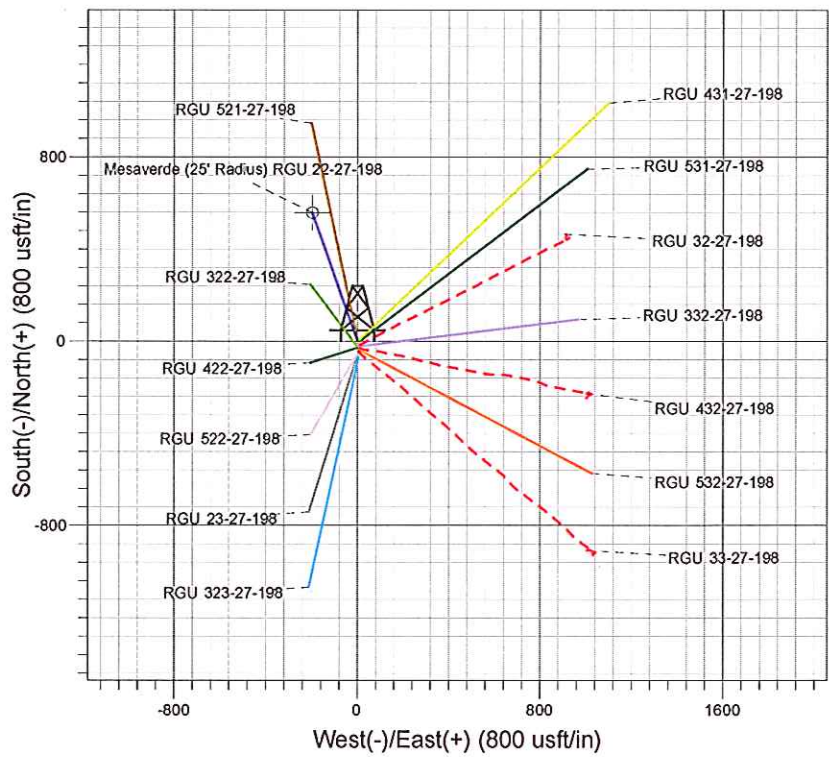
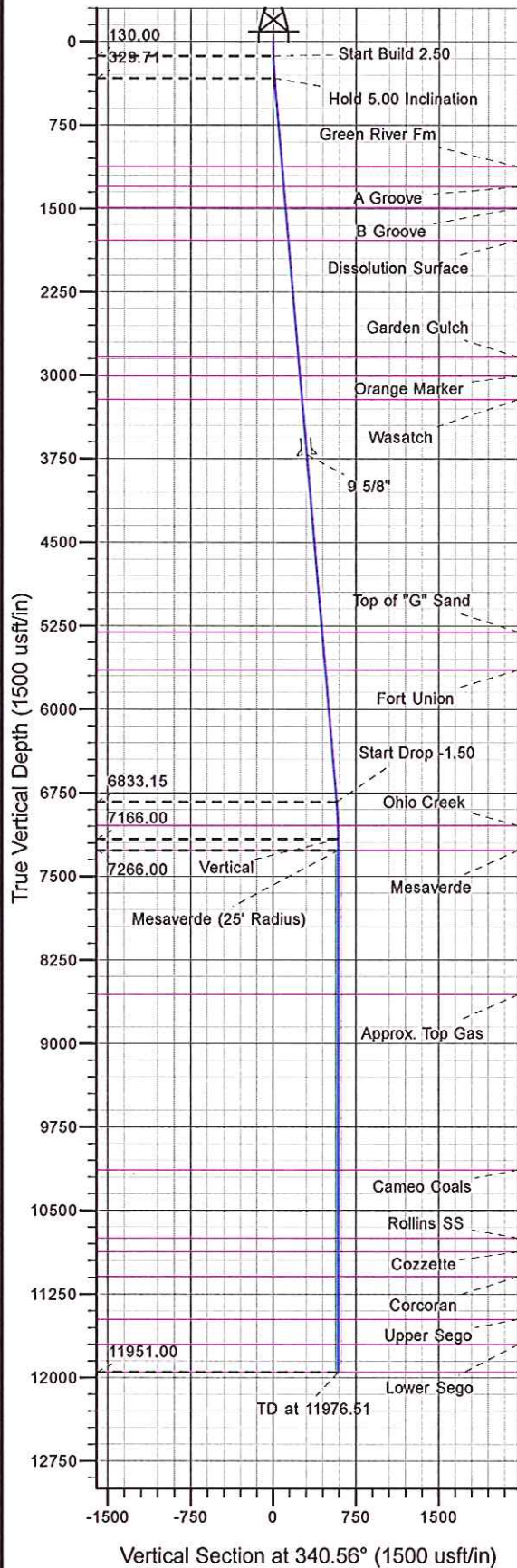


Well Name: RGU 22-27-198
 Surface Location: RGU 22-27-198 Pad
 North American Datum 1983, US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6560.00
 +N/-S 0.00 +E/-W 0.00 Northing 1778701.20 Easting 2192496.50 Latitude 39.93621 Longitude -108.37995 Slot B10
 KELLY BUSHING @ 6581.00usft (Cyclone 29)



Project: RG 27-01S-098W
 Site: RGU 22-27-198 Pad
 Well: RGU 22-27-198
 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	VSecl	Departure	Annotation
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	Start Build 2.50
329.96	5.00	340.56	329.71	8.22	-2.90	8.72	8.72	Hold 5.00 Inclination
6858.24	5.00	340.56	6833.15	544.67	-192.20	577.59	577.59	Start Drop -1.50
7191.51	0.00	0.00	7166.00	558.38	-197.03	592.12	592.12	Vertical
7291.51	0.00	0.00	7266.00	558.38	-197.03	592.12	592.12	Mesaverde
11976.51	0.00	0.00	11951.00	558.38	-197.03	592.12	592.12	TD at 11976.51



PICEANCE HL NAD 83

RG 27-01S-098W

RGU 22-27-198 Pad

RGU 22-27-198 - Slot B10

RGU 22-27-198

Plan: Plan #2 31Oct12 kjs

Standard Planning Report - Geographic

24 January, 2013



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 22-27-198 - Slot B10
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 22-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 22-27-198		
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 22-27-198 - Slot B10			
Well Position	+N/-S	0.00 usft	Northing:	1,778,701.20 usft
	+E/-W	0.00 usft	Easting:	2,192,496.50 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	Ground Level: 6,560.00 usft

Wellbore	RGU 22-27-198				
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	340.56

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	
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
329.96	5.00	340.56	329.71	8.22	-2.90	2.50	2.50	0.00	340.56	
6,858.24	5.00	340.56	6,833.15	544.67	-192.20	0.00	0.00	0.00	0.00	
7,191.51	0.00	0.00	7,166.00	558.38	-197.03	1.50	-1.50	0.00	180.00	
7,291.51	0.00	0.00	7,266.00	558.38	-197.03	0.00	0.00	0.00	0.00	Mesaverde (25' Radiu
11,976.51	0.00	0.00	11,951.00	558.38	-197.03	0.00	0.00	0.00	0.00	



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 22-27-198 - Slot B10
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 22-27-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	RGU 22-27-198		
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	1,778,701.20	2,192,496.50	39.93621	-108.37995
130.00	0.00	0.00	130.00	0.00	0.00	1,778,701.20	2,192,496.50	39.93621	-108.37995
Start Build 2.50									
329.96	5.00	340.56	329.71	8.22	-2.90	1,778,709.51	2,192,493.86	39.93623	-108.37996
Hold 5.00 Inclination									
500.00	5.00	340.56	499.10	22.19	-7.83	1,778,723.63	2,192,489.37	39.93627	-108.37998
1,000.00	5.00	340.56	997.20	63.28	-22.33	1,778,765.16	2,192,476.19	39.93638	-108.38003
1,126.28	5.00	340.56	1,123.00	73.66	-25.99	1,778,775.65	2,192,472.85	39.93641	-108.38004
Green River Fm									
1,306.97	5.00	340.56	1,303.00	88.51	-31.23	1,778,790.65	2,192,468.09	39.93645	-108.38006
A Groove									
1,495.69	5.00	340.56	1,491.00	104.01	-36.70	1,778,806.33	2,192,463.11	39.93650	-108.38008
B Groove									
1,500.00	5.00	340.56	1,495.30	104.37	-36.83	1,778,806.69	2,192,463.00	39.93650	-108.38008
1,791.81	5.00	340.56	1,786.00	128.35	-45.29	1,778,830.92	2,192,455.30	39.93656	-108.38011
Dissolution Surface									
2,000.00	5.00	340.56	1,993.39	145.45	-51.33	1,778,848.21	2,192,449.81	39.93661	-108.38013
2,500.00	5.00	340.56	2,491.49	186.54	-65.82	1,778,889.74	2,192,436.62	39.93672	-108.38018
2,845.82	5.00	340.56	2,836.00	214.96	-75.85	1,778,918.46	2,192,427.49	39.93680	-108.38022
Garden Gulch									
3,000.00	5.00	340.56	2,989.59	227.63	-80.32	1,778,931.27	2,192,423.43	39.93684	-108.38024
3,016.47	5.00	340.56	3,006.00	228.98	-80.80	1,778,932.64	2,192,422.99	39.93684	-108.38024
Orange Marker									
3,227.27	5.00	340.56	3,216.00	246.30	-86.91	1,778,950.15	2,192,417.43	39.93689	-108.38026
Wasatch									
3,500.00	5.00	340.56	3,487.69	268.72	-94.82	1,778,972.80	2,192,410.24	39.93695	-108.38029
3,729.18	5.00	340.56	3,716.00	287.55	-101.47	1,778,991.83	2,192,404.19	39.93700	-108.38031
9 5/8"									
4,000.00	5.00	340.56	3,985.79	309.80	-109.32	1,779,014.32	2,192,397.05	39.93706	-108.38034
4,500.00	5.00	340.56	4,483.88	350.89	-123.82	1,779,055.85	2,192,383.86	39.93717	-108.38039
5,000.00	5.00	340.56	4,981.98	391.98	-138.32	1,779,097.38	2,192,370.67	39.93729	-108.38044
5,325.26	5.00	340.56	5,306.00	418.70	-147.75	1,779,124.39	2,192,362.09	39.93736	-108.38048
Top of "G" Sand									
5,500.00	5.00	340.56	5,480.08	433.06	-152.81	1,779,138.91	2,192,357.48	39.93740	-108.38049
5,668.56	5.00	340.56	5,648.00	446.91	-157.70	1,779,152.91	2,192,353.03	39.93744	-108.38051
Fort Union									
6,000.00	5.00	340.56	5,978.18	474.15	-167.31	1,779,180.44	2,192,344.29	39.93751	-108.38055
6,500.00	5.00	340.56	6,476.28	515.24	-181.81	1,779,221.96	2,192,331.10	39.93763	-108.38060
6,858.24	5.00	340.56	6,833.15	544.67	-192.20	1,779,251.72	2,192,321.65	39.93771	-108.38063
Start Drop -1.50									
7,000.00	2.87	340.56	6,974.57	553.85	-195.44	1,779,260.99	2,192,318.71	39.93773	-108.38065
7,068.49	1.85	340.56	7,043.00	556.51	-196.38	1,779,263.68	2,192,317.85	39.93774	-108.38065
Ohio Creek									
7,191.51	0.00	0.00	7,166.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Vertical									
7,291.51	0.00	0.00	7,266.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Mesaverde - Mesaverde									
7,500.00	0.00	0.00	7,474.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
8,000.00	0.00	0.00	7,974.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
8,500.00	0.00	0.00	8,474.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065



WPX Energy
Planning Report - Geographic

Database: COMPASS-PICEANCE
Company: PICEANCE HL NAD 83

Project: RG 27-01S-098W

Site: RGU 22-27-198 Pad
Well: RGU 22-27-198
Wellbore: RGU 22-27-198
Design: Plan #2 31Oct12 kjs

Local Co-ordinate Reference: Well RGU 22-27-198 - Slot B10
TVD Reference: KELLY BUSHING @ 6581.00usft (Cyclone 29)
MD Reference: KELLY BUSHING @ 6581.00usft (Cyclone 29)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,586.51	0.00	0.00	8,561.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Approx. Top Gas									
9,000.00	0.00	0.00	8,974.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
9,500.00	0.00	0.00	9,474.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
10,000.00	0.00	0.00	9,974.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
10,161.51	0.00	0.00	10,136.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Cameo Coals									
10,500.00	0.00	0.00	10,474.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
10,771.51	0.00	0.00	10,746.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Rollins SS									
10,896.51	0.00	0.00	10,871.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Cozzette									
11,000.00	0.00	0.00	10,974.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
11,116.51	0.00	0.00	11,091.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Corcoran									
11,500.00	0.00	0.00	11,474.49	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
11,501.51	0.00	0.00	11,476.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Upper Sego									
11,726.51	0.00	0.00	11,701.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
Lower Sego									
11,976.51	0.00	0.00	11,951.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
TD at 11976.51 - 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
Mesaverde (25' Radius) - plan hits target center - Circle (radius 25.00)	0.00	0.00	7,266.00	558.38	-197.03	1,779,265.56	2,192,317.25	39.93774	-108.38065
BHL RGU 22-27-198 - plan misses target center by 161.28usft at 11964.51usft MD (11939.00 TVD, 558.38 N, -197.03 E) - Point	0.00	0.00	11,939.00	691.74	-106.33	1,779,395.99	2,192,412.14	39.93811	-108.38033

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,729.18	3,716.00	9 5/8"	9.625	13.500



WPX Energy
Planning Report - Geographic

Database: COMPASS-PICEANCE
Company: PICEANCE HL NAD 83
Project: RG 27-01S-098W
Site: RGU 22-27-198 Pad
Well: RGU 22-27-198
Wellbore: RGU 22-27-198
Design: Plan #2 31Oct12 kjs

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well RGU 22-27-198 - Slot B10
KELLY BUSHING @ 6581.00usft (Cyclone 29)
KELLY BUSHING @ 6581.00usft (Cyclone 29)
True
Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,126.28	1,123.00	Green River Fm			
1,306.97	1,303.00	A Groove			
1,495.69	1,491.00	B Groove			
1,791.81	1,786.00	Dissolution Surface			
2,845.82	2,836.00	Garden Gulch			
3,016.47	3,006.00	Orange Marker			
3,227.27	3,216.00	Wasatch			
5,325.26	5,306.00	Top of "G" Sand			
5,668.56	5,648.00	Fort Union			
7,068.49	7,043.00	Ohio Creek			
7,291.51	7,266.00	Mesaverde			
8,586.51	8,561.00	Approx. Top Gas			
10,161.51	10,136.00	Cameo Coals			
10,771.51	10,746.00	Rollins SS			
10,896.51	10,871.00	Cozzette			
11,116.51	11,091.00	Corcoran			
11,501.51	11,476.00	Upper Sego			
11,726.51	11,701.00	Lower Sego			
11,976.51	11,951.00	TD		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
130.00	130.00	0.00	0.00	Start Build 2.50
329.96	329.71	8.22	-2.90	Hold 5.00 Inclination
6,858.24	6,833.15	544.67	-192.20	Start Drop -1.50
7,191.51	7,166.00	558.38	-197.03	Vertical
7,291.51	7,266.00	558.38	-197.03	Mesaverde
11,976.51	11,951.00	558.38	-197.03	TD at 11976.51