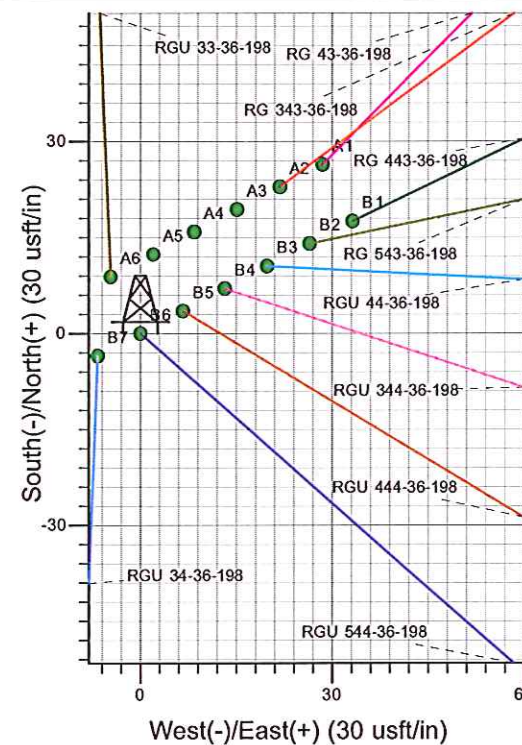
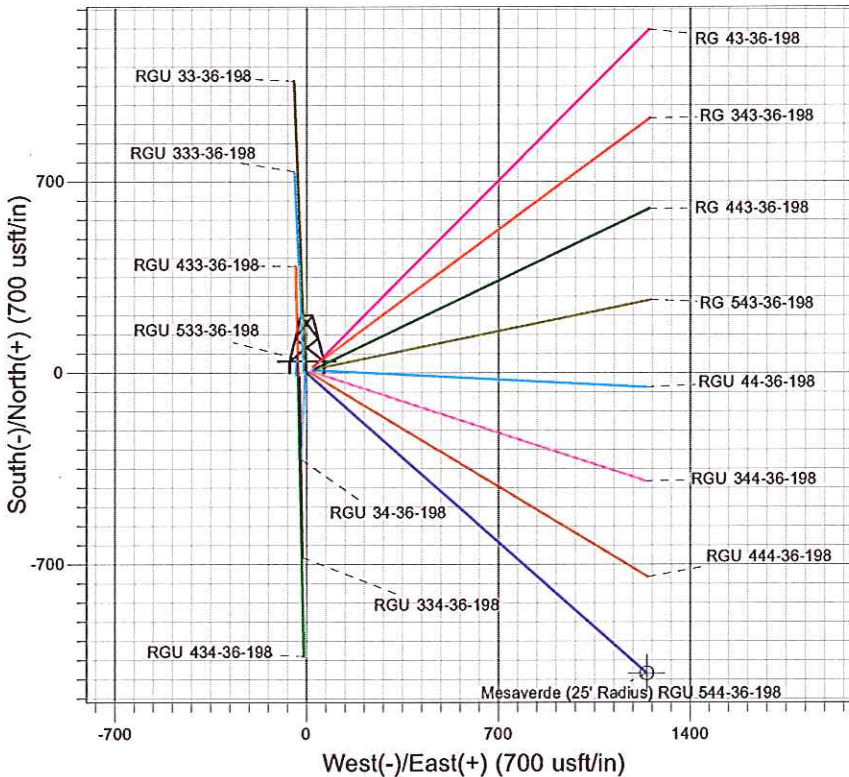
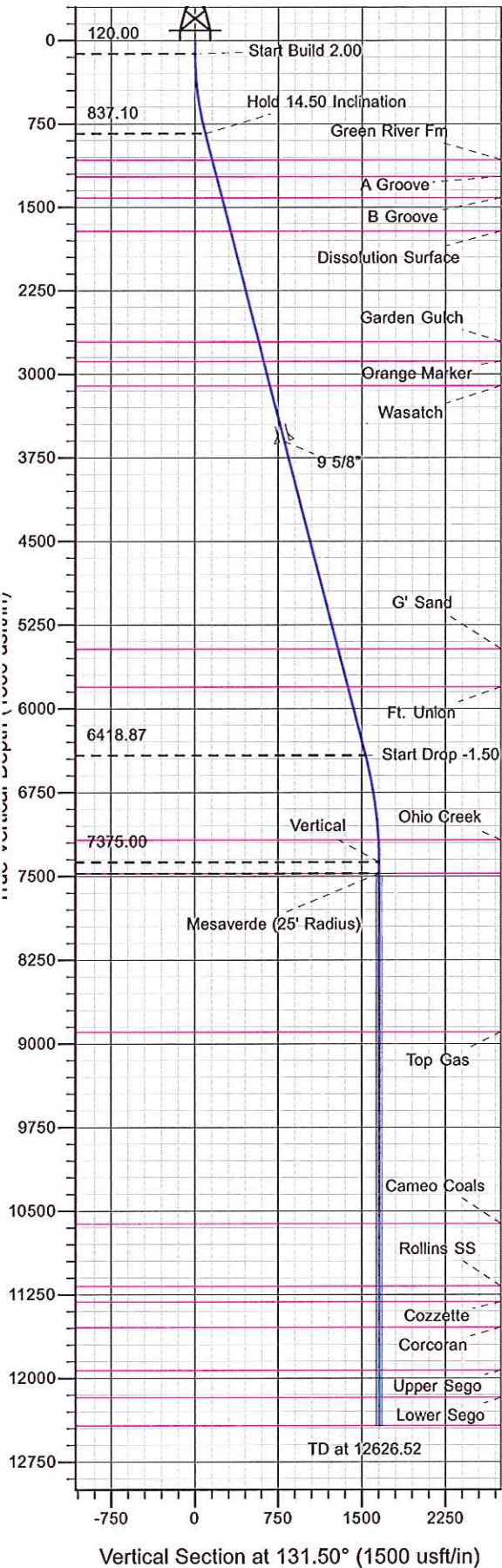




RGU 544-36-198  
Surface Location: RGU 33-36-198 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 6574.00

+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1771039.90 2203518.70 39° 54' 58.112 N 108° 20' 23.308 W B6  
WELL @ 6595.00usft (Original Well Elev)



Project: RG 36-01S-098W  
Site: RGU 33-36-198 Pad  
Well: RGU 544-36-198  
Design #1 25Oct11 kjs

↑ M  
Azimuths to True North  
Magnetic North: 10.49°  
Magnetic Field  
Strength: 52426.6snT  
Dip Angle: 66.02°  
Date: 10/25/2011  
Model: IGRF2005-10

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
844.80	14.50	131.50	837.10	-60.44	68.30	91.20	91.20	Hold 14.50 Inclination
6610.12	14.50	131.50	6418.87	-1016.75	1149.09	1534.34	1534.34	Start Drop -1.50
7576.52	0.00	0.00	7375.00	-1097.33	1240.16	1655.94	1655.94	Vertical
7676.52	0.00	0.00	7475.00	-1097.33	1240.16	1655.94	1655.94	Mesaverde
12626.52	0.00	0.00	12425.00	-1097.33	1240.16	1655.94	1655.94	TD at 12626.52



## **PICEANCE HL NAD 83**

**RG 36-01S-098W**

**RGU 33-36-198 Pad**

**RGU 544-36-198 - Slot B6**

**Wellbore #1**

**Plan: Design #1 25Oct11 kjs**

## **Standard Planning Report - Geographic**

**05 March, 2012**





WPX Energy  
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 544-36-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	WELL @ 6595.00usft (Original Well Elev)
Project:	RG 36-01S-098W	MD Reference:	WELL @ 6595.00usft (Original Well Elev)
Site:	RGU 33-36-198 Pad	North Reference:	True
Well:	RGU 544-36-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 25Oct11 kjs		

Project	RG 36-01S-098W, Rio Blanco County, CO, RG 36-01S-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 33-36-198 Pad		
Site Position:		Northing:	1,771,032.40 usft
From:	Map	Easting:	2,203,480.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39° 54' 58.026 N
		Longitude:	108° 20' 23.794 W
		Grid Convergence:	-1.791 °

Well	RGU 544-36-198 - Slot B6		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	39° 54' 58.112 N
		Longitude:	108° 20' 23.308 W
		Ground Level:	6,574.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	10/25/2011	10.487	66.022	52,427

Design	Design #1 25Oct11 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	131.50

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	
844.80	14.50	131.50	837.10	-60.44	68.30	2.00	2.00	0.00	131.503	
6,610.12	14.50	131.50	6,418.87	-1,016.75	1,149.09	0.00	0.00	0.00	0.000	
7,576.52	0.00	0.00	7,375.00	-1,097.33	1,240.16	1.50	-1.50	0.00	180.000	
7,676.52	0.00	0.00	7,475.00	-1,097.33	1,240.16	0.00	0.00	0.00	0.000	Mesaverde (25' Radiu
12,626.52	0.00	0.00	12,425.00	-1,097.33	1,240.16	0.00	0.00	0.00	0.000	



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RGU 544-36-198 - Slot B6
<b>Company:</b>	PICEANCE HL NAD 83	<b>TVD Reference:</b>	WELL @ 6595.00usft (Original Well Elev)
<b>Project:</b>	RG 36-01S-098W	<b>MD Reference:</b>	WELL @ 6595.00usft (Original Well Elev)
<b>Site:</b>	RGU 33-36-198 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RGU 544-36-198	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 25Oct11 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	1,771,039.90	2,203,518.70	39° 54' 58.112 N	108° 20' 23.308 W
120.00	0.00	0.00	120.00	0.00	0.00	1,771,039.90	2,203,518.70	39° 54' 58.112 N	108° 20' 23.308 W
<b>Start Build 2.00</b>									
844.80	14.50	131.50	837.10	-60.44	68.30	1,770,977.36	2,203,585.08	39° 54' 57.515 N	108° 20' 22.431 W
<b>Hold 14.50 Inclination</b>									
1,090.53	14.50	131.50	1,075.00	-101.20	114.37	1,770,935.18	2,203,629.85	39° 54' 57.112 N	108° 20' 21.840 W
<b>Green River Fm</b>									
1,245.46	14.50	131.50	1,225.00	-126.89	143.41	1,770,908.58	2,203,658.08	39° 54' 56.858 N	108° 20' 21.467 W
<b>A Groove</b>									
1,441.71	14.50	131.50	1,415.00	-159.45	180.20	1,770,874.89	2,203,693.83	39° 54' 56.536 N	108° 20' 20.995 W
<b>B Groove</b>									
1,751.58	14.50	131.50	1,715.00	-210.85	238.29	1,770,821.70	2,203,750.29	39° 54' 56.028 N	108° 20' 20.250 W
<b>Dissolution Surface</b>									
2,779.29	14.50	131.50	2,710.00	-381.32	430.95	1,770,645.28	2,203,937.53	39° 54' 54.343 N	108° 20' 17.777 W
<b>Garden Gulch</b>									
2,960.05	14.50	131.50	2,885.00	-411.30	464.83	1,770,614.26	2,203,970.47	39° 54' 54.047 N	108° 20' 17.342 W
<b>Orange Marker</b>									
3,187.28	14.50	131.50	3,105.00	-448.99	507.43	1,770,575.25	2,204,011.87	39° 54' 53.675 N	108° 20' 16.796 W
<b>Wasatch</b>									
3,703.72	14.50	131.50	3,605.00	-534.66	604.24	1,770,486.60	2,204,105.96	39° 54' 52.828 N	108° 20' 15.553 W
<b>9 5/8"</b>									
5,624.88	14.50	131.50	5,465.00	-853.33	964.39	1,770,156.82	2,204,455.99	39° 54' 49.679 N	108° 20' 10.931 W
<b>G' Sand</b>									
5,976.06	14.50	131.50	5,805.00	-911.58	1,030.23	1,770,096.53	2,204,519.97	39° 54' 49.103 N	108° 20' 10.086 W
<b>Ft. Union</b>									
6,610.12	14.50	131.50	6,418.87	-1,016.75	1,149.09	1,769,987.69	2,204,635.49	39° 54' 48.063 N	108° 20' 8.561 W
<b>Start Drop -1.50</b>									
7,376.43	3.00	131.50	7,175.00	-1,093.86	1,236.23	1,769,907.89	2,204,720.19	39° 54' 47.301 N	108° 20' 7.443 W
<b>Ohio Creek</b>									
7,576.52	0.00	0.00	7,375.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Vertical</b>									
7,676.52	0.00	0.00	7,475.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Mesaverde - Mesaverde - Mesaverde (25' Radius) RGU 544-36-198</b>									
9,096.52	0.00	0.00	8,895.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Top Gas</b>									
10,816.52	0.00	0.00	10,615.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Cameo Coals</b>									
11,376.52	0.00	0.00	11,175.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Rollins SS</b>									
11,516.52	0.00	0.00	11,315.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Cozzette</b>									
11,746.52	0.00	0.00	11,545.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Corcoran</b>									
12,131.52	0.00	0.00	11,930.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Upper Sego</b>									
12,376.52	0.00	0.00	12,175.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>Lower Sego</b>									
12,626.52	0.00	0.00	12,425.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
<b>TD at 12626.52 - TD</b>									





**WPX Energy**  
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RGU 544-36-198 - Slot B6
Company:	PICEANCE HL NAD 83	TVD Reference:	WELL @ 6595.00usft (Original Well Elev)
Project:	RG 36-01S-098W	MD Reference:	WELL @ 6595.00usft (Original Well Elev)
Site:	RGU 33-36-198 Pad	North Reference:	True
Well:	RGU 544-36-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 25Oct11 kjs		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Mesaverde (25' Radius)	0.00	0.00	7,475.00	-1,097.33	1,240.16	1,769,904.30	2,204,724.00	39° 54' 47.267 N	108° 20' 7.392 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(usft)	(usft)		(in)	(in)
3,703.72	3,605.00	9 5/8"	9.625	14.750

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,090.53	1,075.00	Green River Fm				
1,245.46	1,225.00	A Groove				
1,441.71	1,415.00	B Groove				
1,751.58	1,715.00	Dissolution Surface				
2,779.29	2,710.00	Garden Gulch				
2,960.05	2,885.00	Orange Marker				
3,187.28	3,105.00	Wasatch				
5,624.88	5,465.00	G' Sand				
5,976.06	5,805.00	Ft. Union				
7,376.43	7,175.00	Ohio Creek				
7,676.52	7,475.00	Mesaverde				
9,096.52	8,895.00	Top Gas				
10,816.52	10,615.00	Cameo Coals				
11,376.52	11,175.00	Rollins SS				
11,516.52	11,315.00	Cozzette				
11,746.52	11,545.00	Corcoran				
12,131.52	11,930.00	Upper Sego				
12,376.52	12,175.00	Lower Sego				
12,626.52	12,425.00	TD				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
120.00	120.00	0.00	0.00	Start Build 2.00
844.80	837.10	-60.44	68.30	Hold 14.50 Inclination
6,610.12	6,418.87	-1,016.75	1,149.09	Start Drop -1.50
7,576.52	7,375.00	-1,097.33	1,240.16	Vertical
7,676.52	7,475.00	-1,097.33	1,240.16	Mesaverde
12,626.52	12,425.00	-1,097.33	1,240.16	TD at 12626.52