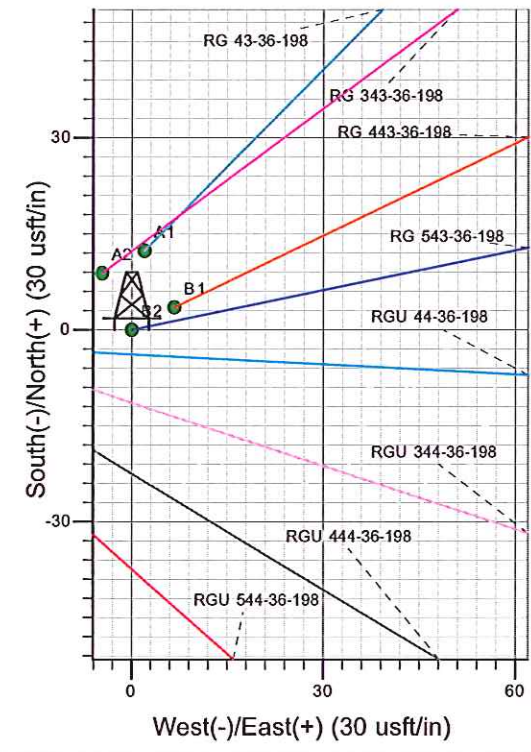
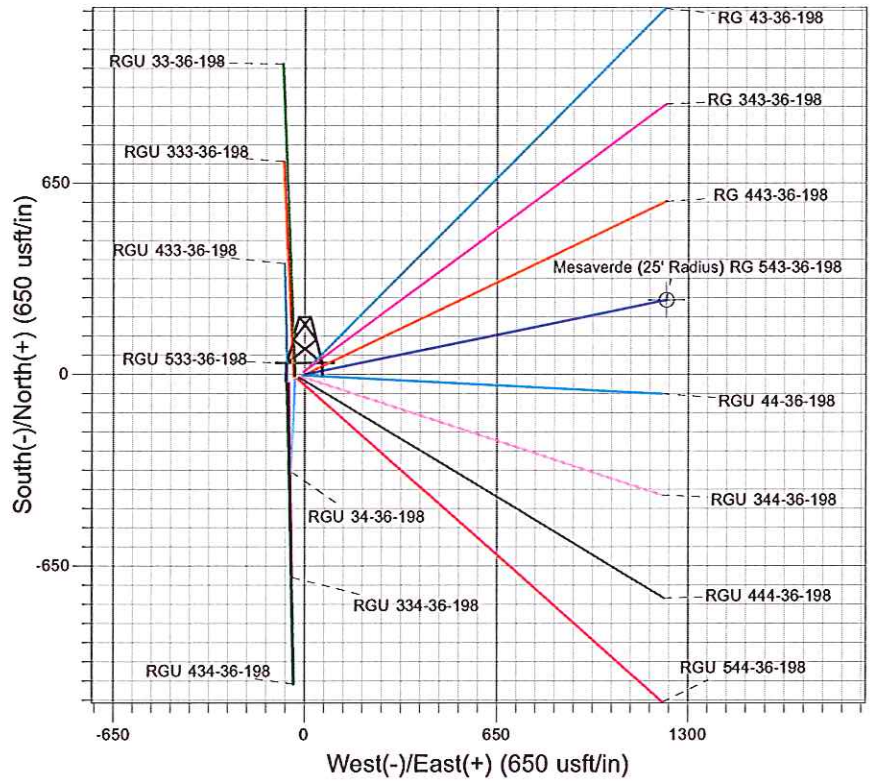
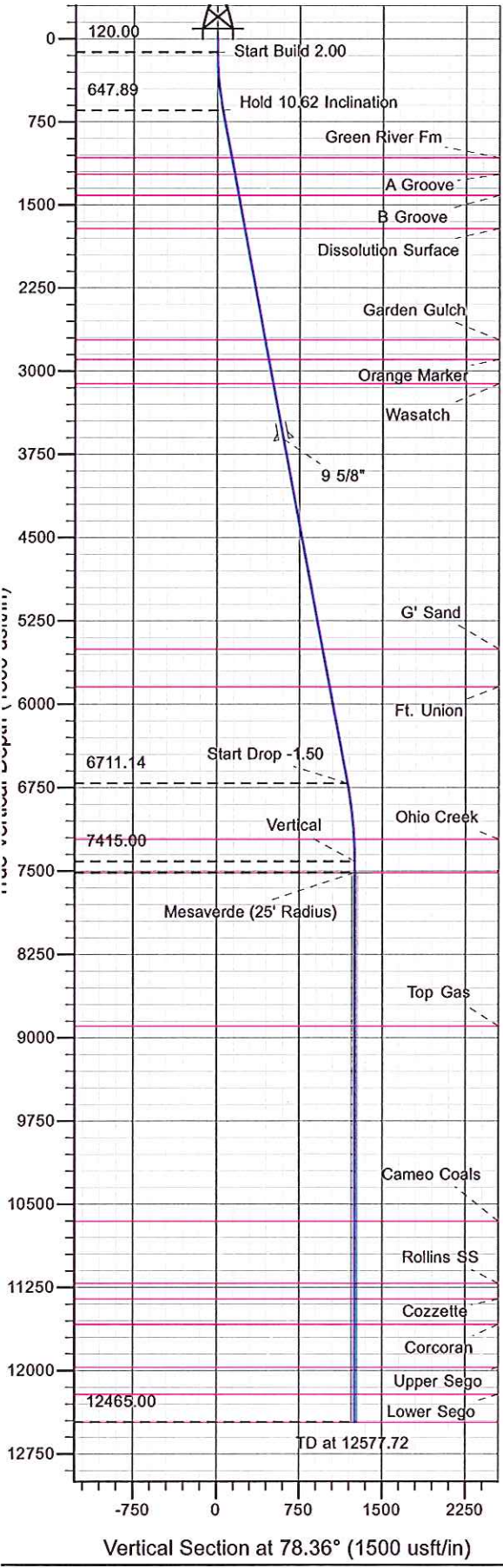




Surface Location: RGU 33-36-198 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 6574.00  
WELL @ 6595.00usft (Original Well Elev)

+N/-S    +E/-W    Northing    Easting    Latitude    Longitude    Slot  
0.00    0.00    1771053.10    2203545.60    39° 54' 58.250 N    108° 20' 22.968 W    B2



Project: RG 36-01S-098W  
Site: RGU 33-36-198 Pad  
Well: RG 543-36-198  
Design #1 19Oct11 kjs

**M**  
Azimuths to True North  
Magnetic North: 10.49°  
Magnetic Field  
Strength: 52428.3snT  
Dip Angle: 66.02°  
Date: 10/19/2011  
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	
650.93	10.62	78.36	647.89	9.90	48.05	49.06	49.06	Hold 10.62 Inclination	
6819.81	10.62	78.36	6711.14	239.31	1161.40	1185.80	1185.80	Start Drop -1.50	
7527.72	0.00	0.00	7415.00	252.52	1225.46	1251.21	1251.21	Vertical	
7627.72	0.00	0.00	7515.00	252.52	1225.46	1251.21	1251.21	Mesaverde	
12577.72	0.00	0.00	12465.00	252.52	1225.46	1251.21	1251.21	TD at 12577.72	



## **PICEANCE HL NAD 83**

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

**RGU 33-36-198 Pad**

**RG 543-36-198 - Slot B2**

**Wellbore #1**

**Plan: Design #1 19Oct11 kjs**

## **Standard Planning Report - Geographic**

**05 March, 2012**





**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RG 543-36-198 - Slot B2
<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>	RG 543-36-198	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 19Oct11 kjs		

<b>Project</b>	RG 36-01S-098W, Rio Blanco County, CO, RG 36-01S-098W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

<b>Site</b>	RGU 33-36-198 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,771,032.40 usft	<b>Latitude:</b> 39° 54' 58.026 N
<b>From:</b>	Map	<b>Easting:</b>	2,203,480.60 usft	<b>Longitude:</b> 108° 20' 23.794 W
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.791 °

<b>Well</b>	RG 543-36-198 - Slot B2			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,771,053.10 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,203,545.60 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	<b>Ground Level:</b> 6,574.00 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2005-10	10/19/2011	10.489	66.023	52,428

<b>Design</b>	Design #1 19Oct11 kjs			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	78.36

<b>Plan Sections</b>										
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	
650.93	10.62	78.36	647.89	9.90	48.05	2.00	2.00	0.00	78.357	
6,819.81	10.62	78.36	6,711.14	239.31	1,161.40	0.00	0.00	0.00	0.000	
7,527.72	0.00	0.00	7,415.00	252.52	1,225.46	1.50	-1.50	0.00	180.000	
7,627.72	0.00	0.00	7,515.00	252.52	1,225.46	0.00	0.00	0.00	0.000	Mesaverde (25' Radiu
12,577.72	0.00	0.00	12,465.00	252.52	1,225.46	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 RG 543-36-198 - Slot B2
<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>	RG 543-36-198	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 19Oct11 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	1,771,053.10	2,203,545.60	39° 54' 58.250 N	108° 20' 22.968 W
120.00	0.00	0.00	120.00	0.00	0.00	1,771,053.10	2,203,545.60	39° 54' 58.250 N	108° 20' 22.968 W
<b>Start Build 2.00</b>									
650.93	10.62	78.36	647.89	9.90	48.05	1,771,061.49	2,203,593.94	39° 54' 58.348 N	108° 20' 22.351 W
<b>Hold 10.62 Inclination</b>									
1,085.48	10.62	78.36	1,075.00	26.06	126.47	1,771,075.20	2,203,672.83	39° 54' 58.508 N	108° 20' 21.345 W
<b>Green River Fm</b>									
1,238.09	10.62	78.36	1,225.00	31.74	154.02	1,771,080.01	2,203,700.54	39° 54' 58.564 N	108° 20' 20.991 W
<b>A Groove</b>									
1,431.40	10.62	78.36	1,415.00	38.93	188.91	1,771,086.10	2,203,735.64	39° 54' 58.635 N	108° 20' 20.544 W
<b>B Groove</b>									
1,736.63	10.62	78.36	1,715.00	50.28	243.99	1,771,095.73	2,203,791.05	39° 54' 58.747 N	108° 20' 19.837 W
<b>Dissolution Surface</b>									
2,759.14	10.62	78.36	2,720.00	88.30	428.53	1,771,127.97	2,203,976.70	39° 54' 59.123 N	108° 20' 17.468 W
<b>Garden Gulch</b>									
2,937.18	10.62	78.36	2,895.00	94.92	460.67	1,771,133.58	2,204,009.03	39° 54' 59.189 N	108° 20' 17.056 W
<b>Orange Marker</b>									
3,161.02	10.62	78.36	3,115.00	103.25	501.06	1,771,140.64	2,204,049.66	39° 54' 59.271 N	108° 20' 16.537 W
<b>Wasatch</b>									
3,669.73	10.62	78.36	3,615.00	122.17	592.88	1,771,156.68	2,204,142.03	39° 54' 59.458 N	108° 20' 15.359 W
<b>9 5/8"</b>									
5,592.66	10.62	78.36	5,505.00	193.68	939.92	1,771,217.31	2,204,491.15	39° 55' 0.164 N	108° 20' 10.905 W
<b>G' Sand</b>									
5,938.58	10.62	78.36	5,845.00	206.54	1,002.35	1,771,228.22	2,204,553.96	39° 55' 0.291 N	108° 20' 10.104 W
<b>Ft. Union</b>									
6,819.81	10.62	78.36	6,711.14	239.31	1,161.40	1,771,256.01	2,204,713.95	39° 55' 0.615 N	108° 20' 8.063 W
<b>Start Drop -1.50</b>									
7,327.63	3.00	78.36	7,215.00	251.46	1,220.33	1,771,266.30	2,204,773.24	39° 55' 0.735 N	108° 20' 7.306 W
<b>Ohio Creek</b>									
7,527.72	0.00	0.00	7,415.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Vertical</b>									
7,627.72	0.00	0.00	7,515.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Mesaverde - Mesaverde - Mesaverde (25' Radius) RG 543-36-198</b>									
9,007.72	0.00	0.00	8,895.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Top Gas</b>									
10,767.72	0.00	0.00	10,655.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Cameo Coals</b>									
11,327.72	0.00	0.00	11,215.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Rollins SS</b>									
11,467.72	0.00	0.00	11,355.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Cozzette</b>									
11,697.72	0.00	0.00	11,585.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Corcoran</b>									
12,082.72	0.00	0.00	11,970.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Upper Sego</b>									
12,327.72	0.00	0.00	12,215.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>Lower Sego</b>									
12,577.72	0.00	0.00	12,465.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W
<b>TD at 12577.72</b>									





**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RG 543-36-198 - Slot B2
<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>	RG 543-36-198	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 19Oct11 kjs		

**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	7,515.00	252.52	1,225.46	1,771,267.20	2,204,778.40	39° 55' 0.746 N	108° 20' 7.240 W

**Casing Points**

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,669.73	3,615.00	9 5/8"	9.625	14.750

**Formations**

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,085.48	1,075.00	Green River Fm			
1,238.09	1,225.00	A Groove			
1,431.40	1,415.00	B Groove			
1,736.63	1,715.00	Dissolution Surface			
2,759.14	2,720.00	Garden Gulch			
2,937.18	2,895.00	Orange Marker			
3,161.02	3,115.00	Wasatch			
5,592.66	5,505.00	G' Sand			
5,938.58	5,845.00	Ft. Union			
7,327.63	7,215.00	Ohio Creek			
7,627.72	7,515.00	Mesaverde			
9,007.72	8,895.00	Top Gas			
10,767.72	10,655.00	Cameo Coals			
11,327.72	11,215.00	Rollins SS			
11,467.72	11,355.00	Cozzette			
11,697.72	11,585.00	Corcoran			
12,082.72	11,970.00	Upper Sego			
12,327.72	12,215.00	Lower Sego			

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 2.00
650.93	647.89	9.90	48.05	Hold 10.62 Inclination
6,819.81	6,711.14	239.31	1,161.40	Start Drop -1.50
7,527.72	7,415.00	252.52	1,225.46	Vertical
7,627.72	7,515.00	252.52	1,225.46	Mesaverde
12,577.72	12,465.00	252.52	1,225.46	TD at 12577.72