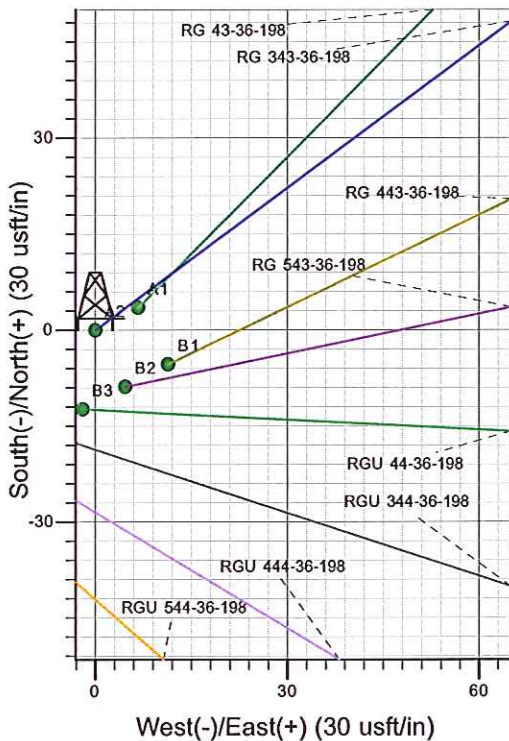
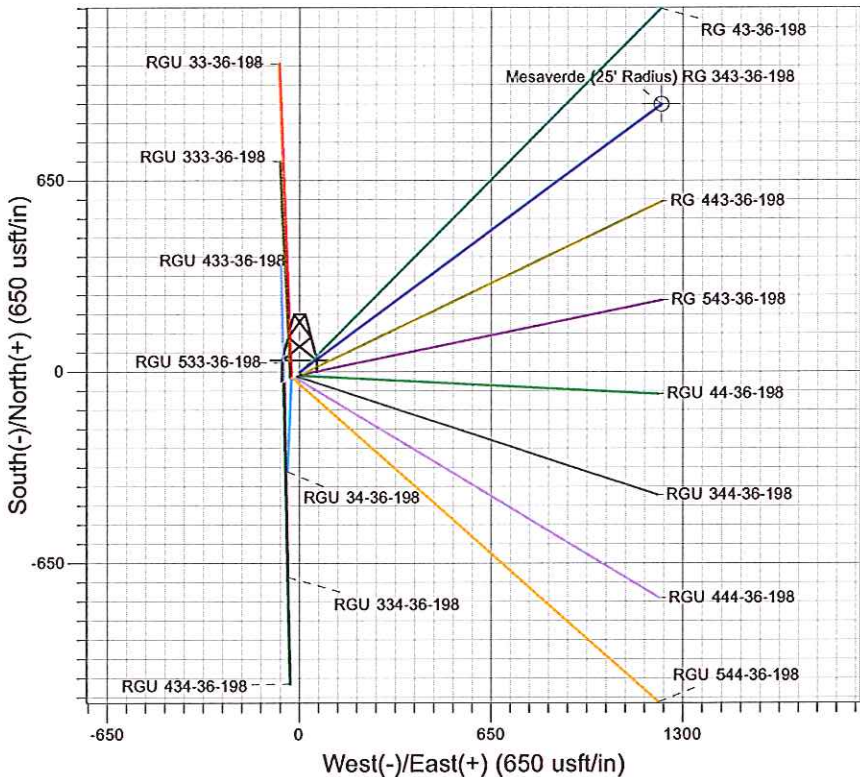
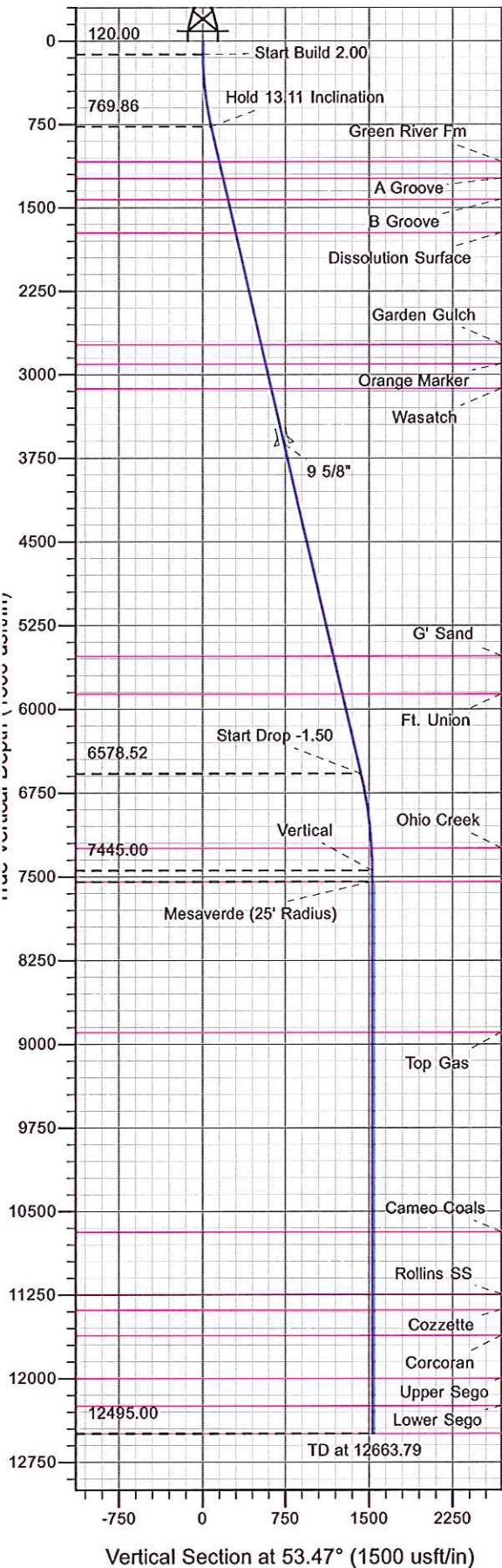




3 43-36-198
Surface Location: RGU 33-36-198 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6574.00
Well @ 6595.00usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1771062.10	2203541.20	39° 54' 58.338 N	108° 20' 23.028 W	A2



Project: RG 36-01S-098W
Site: RGU 33-36-198 Pad
Well: RG 343-36-198
Design #1 19Oct11 kjs



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
775.56	13.11	53.47	769.86	44.45	60.01	74.68	74.68	Hold 13.11 Inclination
6739.71	13.11	53.47	6578.52	849.79	1147.13	1427.60	1427.60	Start Drop -1.50
7613.79	0.00	0.00	7445.00	909.06	1227.14	1527.18	1527.18	Vertical
7713.79	0.00	0.00	7545.00	909.06	1227.14	1527.18	1527.18	Mesaverde
12663.79	0.00	0.00	12495.00	909.06	1227.14	1527.18	1527.18	TD at 12663.79



PICEANCE HL NAD 83

RG 36-01S-098W

RGU 33-36-198 Pad

RG 343-36-198 - Slot A2

Wellbore #1

Plan: Design #1 19Oct11 kjs

Standard Planning Report - Geographic

05 March, 2012



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RG 343-36-198 - Slot A2
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:	RG 343-36-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 19Oct11 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	Latitude:	39° 54' 58.026 N
From:	Map	Easting:	2,203,480.60 usft	Longitude:	108° 20' 23.794 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.791 °

Well	RG 343-36-198 - Slot A2					
Well Position	+N/-S	0.00 usft	Northing:	1,771,062.10 usft	Latitude:	39° 54' 58.338 N
	+E/-W	0.00 usft	Easting:	2,203,541.20 usft	Longitude:	108° 20' 23.028 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,574.00 usft

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

Design	Design #1 19Oct11 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	53.47

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	
775.56	13.11	53.47	769.86	44.45	60.01	2.00	2.00	0.00	53.469	
6,739.71	13.11	53.47	6,578.52	849.79	1,147.13	0.00	0.00	0.00	0.000	
7,613.79	0.00	0.00	7,445.00	909.06	1,227.14	1.50	-1.50	0.00	180.000	
7,713.79	0.00	0.00	7,545.00	909.06	1,227.14	0.00	0.00	0.00	0.000	Mesaverde (25' Radiu
12,663.79	0.00	0.00	12,495.00	909.06	1,227.14	0.00	0.00	0.00	0.000	



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RG 343-36-198 - Slot A2
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:	RG 343-36-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	1,771,062.10	2,203,541.20	39° 54' 58.338 N	108° 20' 23.028 W
120.00	0.00	0.00	120.00	0.00	0.00	1,771,062.10	2,203,541.20	39° 54' 58.338 N	108° 20' 23.028 W
Start Build 2.00									
775.56	13.11	53.47	769.86	44.45	60.01	1,771,104.66	2,203,602.57	39° 54' 58.777 N	108° 20' 22.258 W
Hold 13.11 Inclination									
1,099.14	13.11	53.47	1,085.00	88.15	118.99	1,771,146.49	2,203,662.89	39° 54' 59.209 N	108° 20' 21.501 W
Green River Fm									
1,253.16	13.11	53.47	1,235.00	108.94	147.06	1,771,166.40	2,203,691.60	39° 54' 59.415 N	108° 20' 21.141 W
A Groove									
1,448.24	13.11	53.47	1,425.00	135.29	182.62	1,771,191.62	2,203,727.97	39° 54' 59.675 N	108° 20' 20.684 W
B Groove									
1,756.27	13.11	53.47	1,725.00	176.88	238.77	1,771,231.44	2,203,785.39	39° 55' 0.086 N	108° 20' 19.964 W
Dissolution Surface									
2,788.17	13.11	53.47	2,730.00	316.22	426.86	1,771,364.83	2,203,977.75	39° 55' 1.463 N	108° 20' 17.550 W
Garden Gulch									
2,967.86	13.11	53.47	2,905.00	340.48	459.61	1,771,388.06	2,204,011.24	39° 55' 1.703 N	108° 20' 17.129 W
Orange Marker									
3,193.75	13.11	53.47	3,125.00	370.98	500.79	1,771,417.26	2,204,053.35	39° 55' 2.004 N	108° 20' 16.601 W
Wasatch									
3,707.13	13.11	53.47	3,625.00	440.30	594.36	1,771,483.63	2,204,149.06	39° 55' 2.689 N	108° 20' 15.400 W
9 5/8"									
5,657.98	13.11	53.47	5,525.00	703.73	949.96	1,771,735.82	2,204,512.72	39° 55' 5.292 N	108° 20' 10.836 W
G' Sand									
6,007.09	13.11	53.47	5,865.00	750.87	1,013.59	1,771,780.95	2,204,577.80	39° 55' 5.758 N	108° 20' 10.019 W
Ft. Union									
6,739.71	13.11	53.47	6,578.52	849.79	1,147.13	1,771,875.65	2,204,714.37	39° 55' 6.736 N	108° 20' 8.305 W
Start Drop -1.50									
7,413.70	3.00	53.47	7,245.00	905.95	1,222.93	1,771,929.41	2,204,791.89	39° 55' 7.291 N	108° 20' 7.333 W
Ohio Creek									
7,613.79	0.00	0.00	7,445.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Vertical									
7,713.79	0.00	0.00	7,545.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Mesaverde - Mesaverde - Mesaverde (25' Radius) RG 343-36-198									
9,063.79	0.00	0.00	8,895.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Top Gas									
10,853.79	0.00	0.00	10,685.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Cameo Coals									
11,413.79	0.00	0.00	11,245.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Rollins SS									
11,553.79	0.00	0.00	11,385.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Cozzette									
11,783.79	0.00	0.00	11,615.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Corcoran									
12,168.79	0.00	0.00	12,000.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Upper Sego									
12,413.79	0.00	0.00	12,245.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
Lower Sego									
12,663.79	0.00	0.00	12,495.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
TD at 12663.79 - TD									



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RG 343-36-198 - Slot A2
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:	RG 343-36-198	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 19Oct11 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	7,545.00	909.06	1,227.14	1,771,932.40	2,204,796.20	39° 55' 7.322 N	108° 20' 7.278 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(in)	(in)	
3,707.13	3,625.00	9 5/8"	9.625	14.750	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,099.14	1,085.00	Green River Fm				
1,253.16	1,235.00	A Groove				
1,448.24	1,425.00	B Groove				
1,756.27	1,725.00	Dissolution Surface				
2,788.17	2,730.00	Garden Gulch				
2,967.86	2,905.00	Orange Marker				
3,193.75	3,125.00	Wasatch				
5,657.98	5,525.00	G' Sand				
6,007.09	5,865.00	Ft. Union				
7,413.70	7,245.00	Ohio Creek				
7,713.79	7,545.00	Mesaverde				
9,063.79	8,895.00	Top Gas				
10,853.79	10,685.00	Cameo Coals				
11,413.79	11,245.00	Rollins SS				
11,553.79	11,385.00	Cozzette				
11,783.79	11,615.00	Corcoran				
12,168.79	12,000.00	Upper Sego				
12,413.79	12,245.00	Lower Sego				
12,663.79	12,495.00	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	
775.56	769.86	44.45	60.01	Hold 13.11 Inclination	
6,739.71	6,578.52	849.79	1,147.13	Start Drop -1.50	
7,613.79	7,445.00	909.06	1,227.14	Vertical	
7,713.79	7,545.00	909.06	1,227.14	Mesaverde	
12,663.79	12,495.00	909.06	1,227.14	TD at 12663.79	