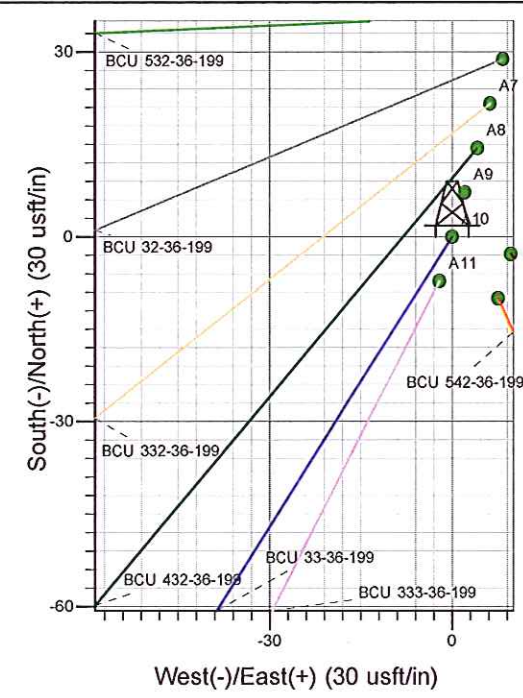
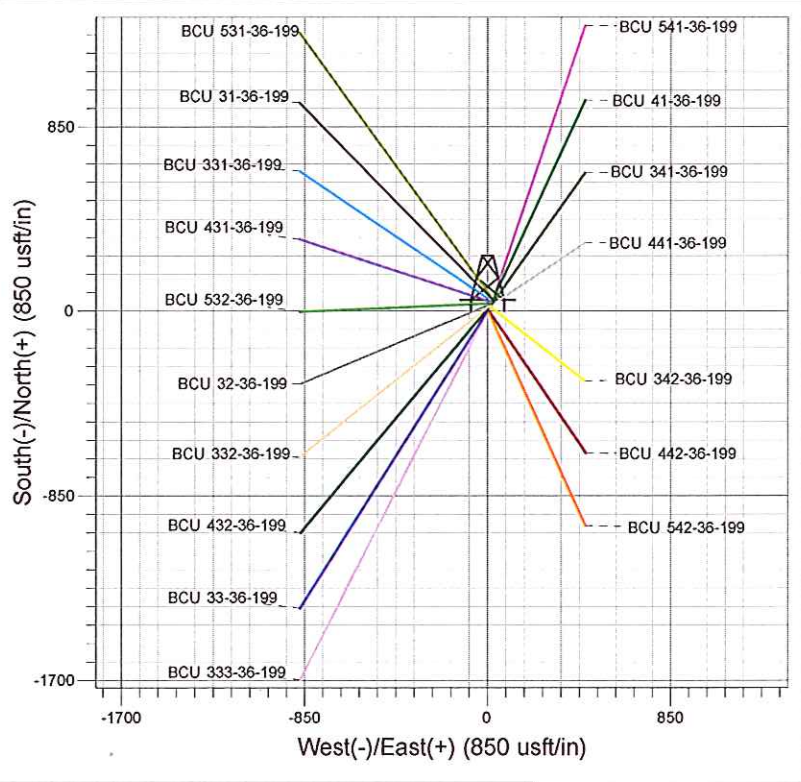
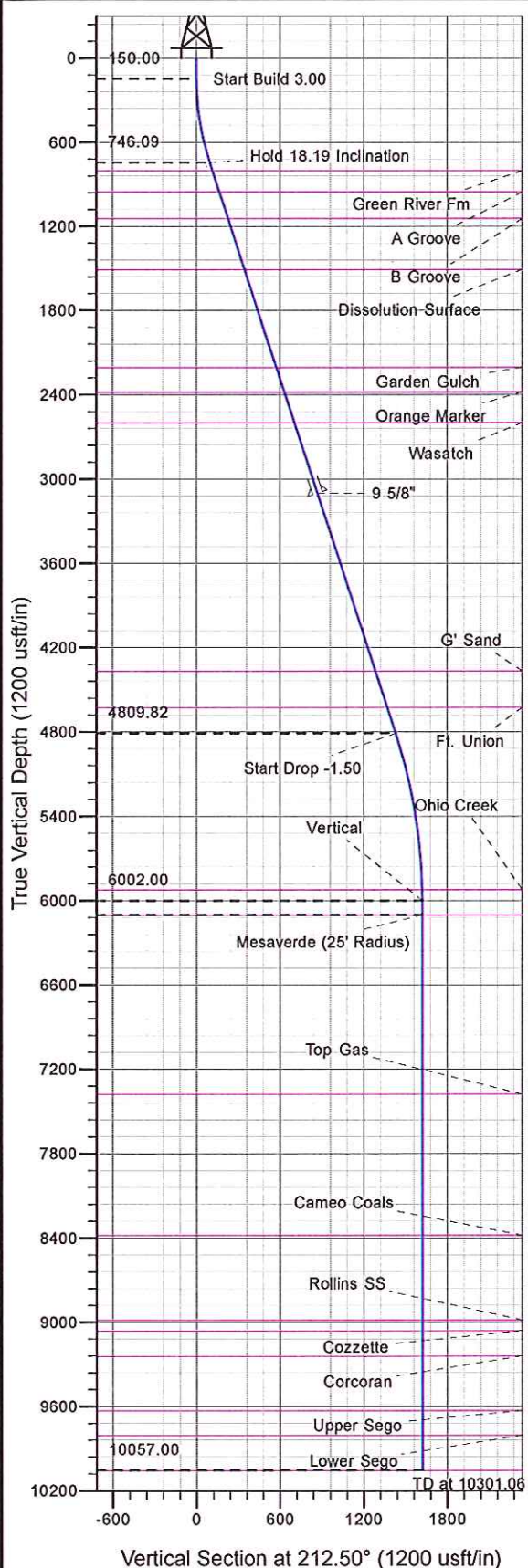




Well Name: BCU 33-36-199
 Surface Location: BCU 442-36-199
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6868.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1808077.81 2174515.50 40.01522 -108.44743 A10
 KELLY BUSHING @ 6889.00usft



Project: BC 36-01N-R99W
 Site: BCU 442-36-199
 Well: BCU 33-36-199
 Design #1 1Mar12 kjs

Azimuths to True North
 Magnetic North: 10.53°
 Magnetic Field
 Strength: 52393.3snT
 Dip Angle: 66.06°
 Date: 3/1/2012
 Model: IGRF2010

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	Start Build 3.00	
756.22	18.19	212.50	746.09	-80.47	-51.26	95.41	95.41	Hold 18.19 Inclination	
5033.63	18.19	212.50	4809.82	-1206.46	-768.50	1430.43	1430.43	Start Drop -1.50	
6246.06	0.00	0.00	6002.00	-1367.39	-871.01	1621.24	1621.24	Vertical	
6346.06	0.00	0.00	6102.00	-1367.39	-871.01	1621.24	1621.24	Mesaverde	
10301.06	0.00	0.00	10057.00	-1367.39	-871.01	1621.24	1621.24	TD at 10301.06	



PICEANCE HL NAD 83

BC 36-01N-R99W

BCU 442-36-199

BCU 33-36-199 - Slot A10

Wellbore #1

Plan: Design #1 1Mar12 kjs

Standard Planning Report - Geographic

31 August, 2012



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well BCU 33-36-199 - Slot A10
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6889.00usft
Project:	BC 36-01N-R99W	MD Reference:	KELLY BUSHING @ 6889.00usft
Site:	BCU 442-36-199	North Reference:	True
Well:	BCU 33-36-199	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 1Mar12 kjs		

Project	BC 36-01N-R99W, Rio Blanco, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	BCU 442-36-199				
Site Position:		Northing:	1,808,142.00 usft	Latitude:	40.01540
From:	Map	Easting:	2,174,536.30 usft	Longitude:	-108.44736
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.86 °

Well	BCU 33-36-199 - Slot A10					
Well Position	+N/-S	0.00 usft	Northing:	1,808,077.81 usft	Latitude:	40.01522
	+E/-W	0.00 usft	Easting:	2,174,515.50 usft	Longitude:	-108.44743
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	6,868.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/1/2012	10.53	66.06	52,393

Design	Design #1 1Mar12 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	212.50

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	0.00	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
756.22	18.19	212.50	746.09	-80.47	-51.26	3.00	3.00	0.00	212.50	
5,033.63	18.19	212.50	4,809.82	-1,206.46	-768.50	0.00	0.00	0.00	0.00	
6,246.06	0.00	0.00	6,002.00	-1,367.39	-871.01	1.50	-1.50	0.00	180.00	
6,346.06	0.00	0.00	6,102.00	-1,367.39	-871.01	0.00	0.00	0.00	0.00	Mesaverde (25' Radiu
10,301.06	0.00	0.00	10,057.00	-1,367.39	-871.01	0.00	0.00	0.00	0.00	



WPX Energy
Planning Report - Geographic

Database: COMPASS-PICEANCE
Company: PICEANCE HL NAD 83
Project: BC 36-01N-R99W
Site: BCU 442-36-199
Well: BCU 33-36-199
Wellbore: Wellbore #1
Design: Design #1 1Mar12 kjs

Local Co-ordinate Reference: Well BCU 33-36-199 - Slot A10
TVD Reference: KELLY BUSHING @ 6889.00usft
MD Reference: KELLY BUSHING @ 6889.00usft
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
0.00	0.00	0.00	0.00	0.00	0.00	1,808,077.81	2,174,515.50	40.01522	-108.44743
150.00	0.00	0.00	150.00	0.00	0.00	1,808,077.81	2,174,515.50	40.01522	-108.44743
Start Build 3.00									
500.00	10.50	212.50	498.04	-26.97	-17.18	1,808,051.41	2,174,497.45	40.01515	-108.44749
756.22	18.19	212.50	746.09	-80.47	-51.26	1,807,999.05	2,174,461.66	40.01500	-108.44761
Hold 18.19 Inclination									
818.23	18.19	212.50	805.00	-96.79	-61.65	1,807,983.07	2,174,450.74	40.01496	-108.44765
Green River Fm									
977.17	18.19	212.50	956.00	-138.63	-88.31	1,807,942.11	2,174,422.74	40.01484	-108.44775
A Groove									
1,000.00	18.19	212.50	977.69	-144.64	-92.13	1,807,936.23	2,174,418.72	40.01483	-108.44776
1,175.05	18.19	212.50	1,144.00	-190.72	-121.49	1,807,891.13	2,174,387.89	40.01470	-108.44787
B Groove									
1,500.00	18.19	212.50	1,452.72	-276.26	-175.98	1,807,807.40	2,174,330.65	40.01447	-108.44806
1,559.24	18.19	212.50	1,509.00	-291.86	-185.91	1,807,792.13	2,174,320.22	40.01442	-108.44810
Dissolution Surface									
2,000.00	18.19	212.50	1,927.74	-407.88	-259.82	1,807,678.57	2,174,242.59	40.01410	-108.44836
2,292.89	18.19	212.50	2,206.00	-484.98	-308.93	1,807,603.10	2,174,191.00	40.01389	-108.44853
Garden Gulch									
2,477.09	18.19	212.50	2,381.00	-533.47	-339.82	1,807,555.64	2,174,158.56	40.01376	-108.44864
Orange Marker									
2,500.00	18.19	212.50	2,402.76	-539.50	-343.66	1,807,549.74	2,174,154.52	40.01374	-108.44866
2,708.66	18.19	212.50	2,601.00	-594.43	-378.65	1,807,495.97	2,174,117.77	40.01359	-108.44878
Wasatch									
3,000.00	18.19	212.50	2,877.79	-671.12	-427.50	1,807,420.90	2,174,066.46	40.01338	-108.44896
3,234.95	18.19	212.50	3,101.00	-732.97	-466.89	1,807,360.36	2,174,025.07	40.01321	-108.44910
9 5/8"									
3,500.00	18.19	212.50	3,352.81	-802.75	-511.34	1,807,292.07	2,173,978.39	40.01302	-108.44926
4,000.00	18.19	212.50	3,827.83	-934.37	-595.18	1,807,163.24	2,173,890.32	40.01266	-108.44956
4,500.00	18.19	212.50	4,302.85	-1,065.99	-679.02	1,807,034.41	2,173,802.26	40.01230	-108.44986
4,567.52	18.19	212.50	4,367.00	-1,083.76	-690.34	1,807,017.01	2,173,790.37	40.01225	-108.44990
G' Sand									
4,841.19	18.19	212.50	4,627.00	-1,155.80	-736.23	1,806,946.50	2,173,742.16	40.01205	-108.45006
Ft. Union									
5,000.00	18.19	212.50	4,777.88	-1,197.61	-762.86	1,806,905.58	2,173,714.19	40.01194	-108.45015
5,033.63	18.19	212.50	4,809.82	-1,206.46	-768.50	1,806,896.91	2,173,708.27	40.01191	-108.45017
Start Drop -1.50									
5,500.00	11.19	212.50	5,260.67	-1,306.14	-831.99	1,806,799.34	2,173,641.57	40.01164	-108.45040
6,000.00	3.69	212.50	5,756.11	-1,360.71	-866.76	1,806,745.93	2,173,605.06	40.01149	-108.45053
6,166.05	1.20	212.50	5,922.00	-1,366.69	-870.56	1,806,740.08	2,173,601.06	40.01147	-108.45054
Ohio Creek									
6,246.06	0.00	0.00	6,002.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Vertical									
6,346.06	0.00	0.00	6,102.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Mesaverde - Mesaverde									
6,500.00	0.00	0.00	6,255.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
7,000.00	0.00	0.00	6,755.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
7,500.00	0.00	0.00	7,255.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
7,622.06	0.00	0.00	7,378.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Top Gas									
8,000.00	0.00	0.00	7,755.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
8,500.00	0.00	0.00	8,255.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well BCU 33-36-199 - Slot A10
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6889.00usft
Project:	BC 36-01N-R99W	MD Reference:	KELLY BUSHING @ 6889.00usft
Site:	BCU 442-36-199	North Reference:	True
Well:	BCU 33-36-199	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 1Mar12 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
8,624.06	0.00	0.00	8,380.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Cameo Coals									
9,000.00	0.00	0.00	8,755.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
9,229.06	0.00	0.00	8,985.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Rollins SS									
9,304.06	0.00	0.00	9,060.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Cozzette									
9,486.06	0.00	0.00	9,242.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Corcoran									
9,500.00	0.00	0.00	9,255.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
9,875.06	0.00	0.00	9,631.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Upper Sego									
10,000.00	0.00	0.00	9,755.94	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
10,051.06	0.00	0.00	9,807.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
Lower Sego									
10,301.06	0.00	0.00	10,057.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054
TD at 10301.06 - 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	6,102.00	-1,367.39	-871.01	1,806,739.39	2,173,600.59	40.01147	-108.45054

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
3,234.95	3,101.00	9 5/8"	9.625	14.750



WPX Energy
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well BCU 33-36-199 - Slot A10
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6889.00usft
Project:	BC 36-01N-R99W	MD Reference:	KELLY BUSHING @ 6889.00usft
Site:	BCU 442-36-199	North Reference:	True
Well:	BCU 33-36-199	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 1Mar12 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
818.23	805.00	Green River Fm				
977.17	956.00	A Groove				
1,175.05	1,144.00	B Groove				
1,559.24	1,509.00	Dissolution Surface				
2,292.89	2,206.00	Garden Gulch				
2,477.09	2,381.00	Orange Marker				
2,708.66	2,601.00	Wasatch				
4,567.52	4,367.00	G' Sand				
4,841.19	4,627.00	Ft. Union				
6,166.05	5,922.00	Ohio Creek				
6,346.06	6,102.00	Mesaverde				
7,622.06	7,378.00	Top Gas				
8,624.06	8,380.00	Cameo Coals				
9,229.06	8,985.00	Rollins SS				
9,304.06	9,060.00	Cozzette				
9,486.06	9,242.00	Corcoran				
9,875.06	9,631.00	Upper Sego				
10,051.06	9,807.00	Lower Sego				
10,301.06	10,057.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
150.00	150.00	0.00	0.00	Start Build 3.00	
756.22	746.09	-80.47	-51.26	Hold 18.19 Inclination	
5,033.63	4,809.82	-1,206.46	-768.50	Start Drop -1.50	
6,246.06	6,002.00	-1,367.39	-871.01	Vertical	
6,346.06	6,102.00	-1,367.39	-871.01	Mesaverde	
10,301.06	10,057.00	-1,367.39	-871.01	TD at 10301.06	