

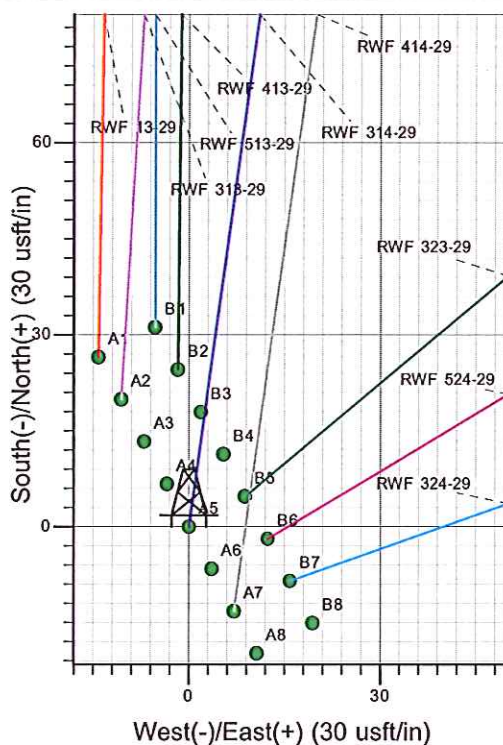
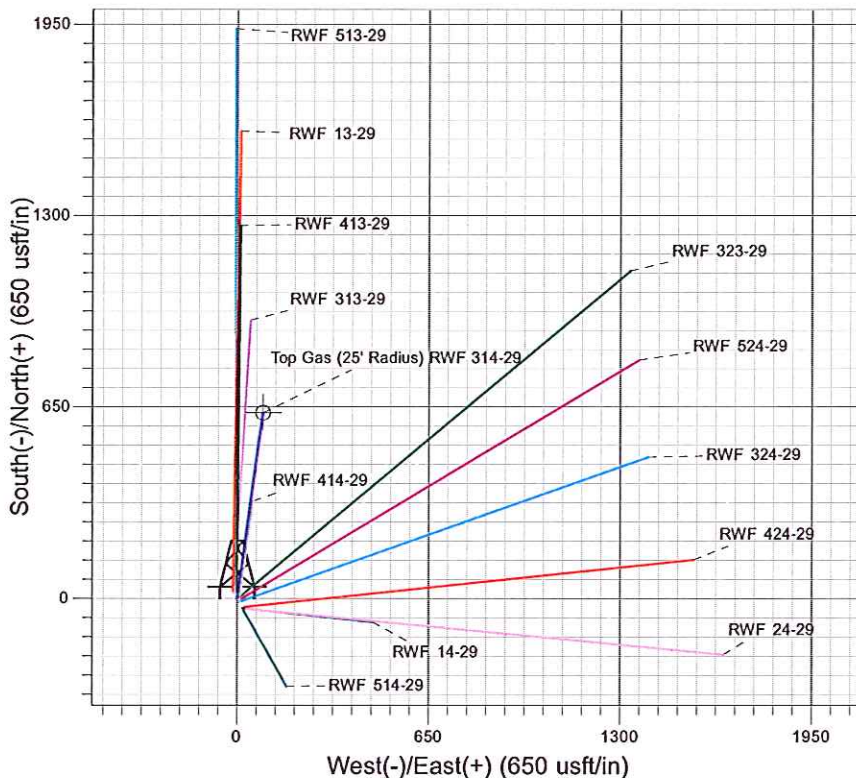
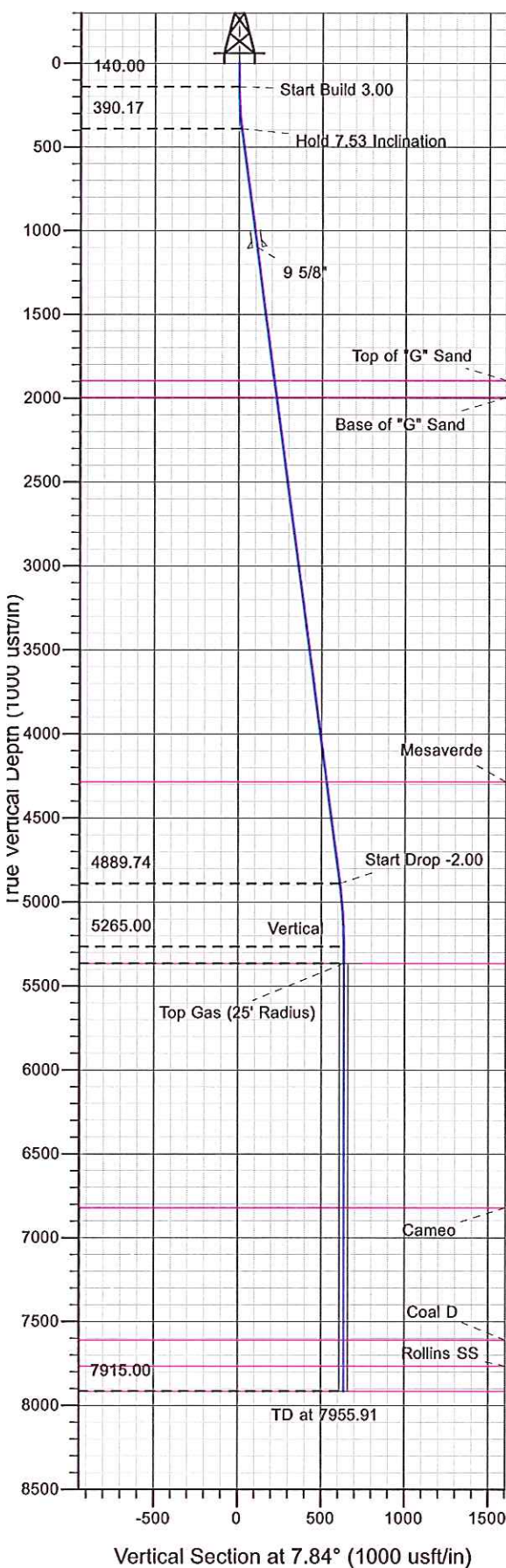


814-29

Surface Location: RWF 14-29 Pad  
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
 Ground Elevation: 5419.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1612491.40	2317478.10	39.49012	-107.91865	A5

KELLY BUSHING @ 5445.00usft (SSD 576)



Project: RU 29-06S-094W  
 Site: RWF 14-29 Pad  
 Well: RWF 314-29  
 Design #1 15Jun11 kjs

Azimuths to True North  
 Magnetic North: 10.32°

Magnetic Field  
 Strength: 52262.0nT  
 Dip Angle: 65.75°  
 Date: 6/13/2011  
 Model: IGRF2010

#### ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
140.00	0.00	0.00	140.00	0.00	0.00	0.00	0.00	Start Build 3.00
390.90	7.53	7.84	390.17	16.30	2.24	16.46	16.46	Hold 7.53 Inclination
4929.57	7.53	7.84	4889.74	605.28	83.30	610.98	610.98	Start Drop -2.00
5305.91	0.00	0.00	5265.00	629.73	86.67	635.67	635.67	Vertical
5405.91	0.00	0.00	5365.00	629.73	86.67	635.67	635.67	Top Gas
7955.91	0.00	0.00	7915.00	629.73	86.67	635.67	635.67	TD at 7955.91



## **PICEANCE VLY NAD 83**

**RU 29-06S-094W**

**RWF 14-29 Pad**

**RWF 314-29 - Slot A5**

**Wellbore #1**

**Plan: Design #1 15Jun11 kjs**

## **Standard Planning Report - Geographic**

**17 April, 2012**



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 314-29 - Slot A5
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Project:</b>	RU 29-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Site:</b>	RWF 14-29 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 314-29	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 15Jun11 kjs		

<b>Project</b>	RU 29-06S-094W, 29-06S-094W		
<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		

<b>Site</b>	RWF 14-29 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,612,451.20 usft	<b>Latitude:</b> 39.49001
<b>From:</b>	Map	<b>Easting:</b>	2,317,498.20 usft	<b>Longitude:</b> -107.91858
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.53 °

<b>Well</b>	RWF 314-29 - Slot A5			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,612,491.40 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,317,478.10 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	
			<b>Ground Level:</b>	5,419.00 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>
	IGRF2010	6/13/2011	10.32	65.75	52,262

<b>Design</b>	Design #1 15Jun11 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	7.84

<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	0.00	
140.00	0.00	0.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	
390.90	7.53	7.84	390.17	16.30	2.24	3.00	3.00	0.00	7.84	
4,929.57	7.53	7.84	4,889.74	605.28	83.30	0.00	0.00	0.00	0.00	
5,305.91	0.00	0.00	5,265.00	629.73	86.67	2.00	-2.00	0.00	180.00	
5,405.91	0.00	0.00	5,365.00	629.73	86.67	0.00	0.00	0.00	0.00	Top Gas (25' Radius)
7,955.91	0.00	0.00	7,915.00	629.73	86.67	0.00	0.00	0.00	0.00	



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 314-29 - Slot A5
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Project:</b>	RU 29-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Site:</b>	RWF 14-29 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 314-29	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 15Jun11 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	1,612,491.40	2,317,478.10	39.49012	-107.91866	
140.00	0.00	0.00	140.00	0.00	0.00	1,612,491.40	2,317,478.10	39.49012	-107.91866	
Start Build 3.00										
390.90	7.53	7.84	390.17	16.30	2.24	1,612,507.63	2,317,480.78	39.49017	-107.91865	
Hold 7.53 Inclination										
1,106.89	7.53	7.84	1,100.00	109.22	15.03	1,612,600.17	2,317,496.03	39.49042	-107.91860	
9 5/8"										
1,908.80	7.53	7.84	1,895.00	213.28	29.35	1,612,703.82	2,317,513.12	39.49071	-107.91855	
Top of "G" Sand										
2,009.67	7.53	7.84	1,995.00	226.37	31.15	1,612,716.85	2,317,515.27	39.49074	-107.91855	
Base of "G" Sand										
4,319.57	7.53	7.84	4,285.00	526.12	72.41	1,613,015.40	2,317,564.49	39.49157	-107.91840	
Mesaverde										
4,929.57	7.53	7.84	4,889.74	605.28	83.30	1,613,094.24	2,317,577.49	39.49178	-107.91836	
Start Drop -2.00										
5,305.91	0.00	0.00	5,265.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
Vertical										
5,405.91	0.00	0.00	5,365.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
Top Gas - Approx. Top Gas										
6,860.91	0.00	0.00	6,820.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
Cameo										
7,650.91	0.00	0.00	7,610.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
Coal D										
7,805.91	0.00	0.00	7,765.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
Rollins SS										
7,955.91	0.00	0.00	7,915.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
TD at 7955.91 - TD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Top Gas (25' Radius) RL	0.00	0.00	5,365.00	629.73	86.67	1,613,118.60	2,317,581.50	39.49185	-107.91835	
- plan hits target center										
- Circle (radius 25.00)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,106.89	1,100.00	9 5/8"	9.625	14.750	



**WPX Energy**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 314-29 - Slot A5
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Project:</b>	RU 29-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5445.00usft (SSD 576)
<b>Site:</b>	RWF 14-29 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 314-29	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 15Jun11 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,908.80	1,895.00	Top of "G" Sand				
2,009.67	1,995.00	Base of "G" Sand				
4,319.57	4,285.00	Mesaverde				
5,405.91	5,365.00	Approx. Top Gas				
6,860.91	6,820.00	Cameo				
7,650.91	7,610.00	Coal D				
7,805.91	7,765.00	Rollins SS				
7,955.91	7,915.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
140.00	140.00	0.00	0.00	Start Build 3.00	
390.90	390.17	16.30	2.24	Hold 7.53 Inclination	
4,929.57	4,889.74	605.28	83.30	Start Drop -2.00	
5,305.91	5,265.00	629.73	86.67	Vertical	
5,405.91	5,365.00	629.73	86.67	Top Gas	
7,955.91	7,915.00	629.73	86.67	TD at 7955.91	