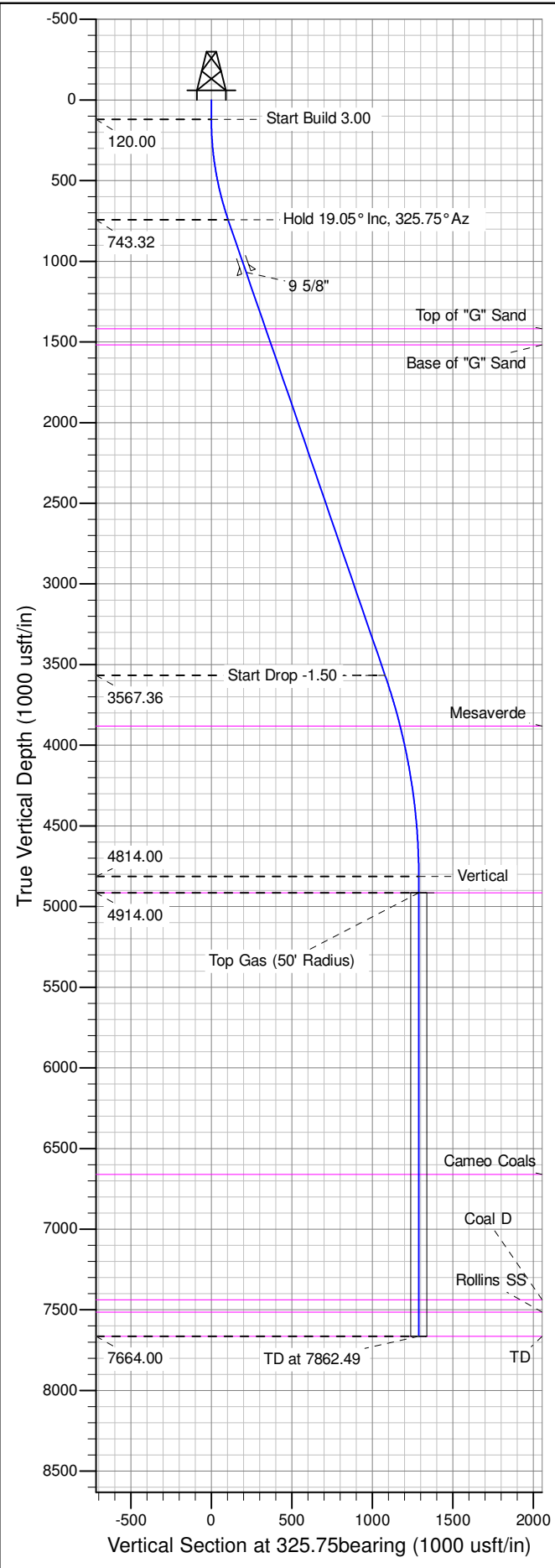
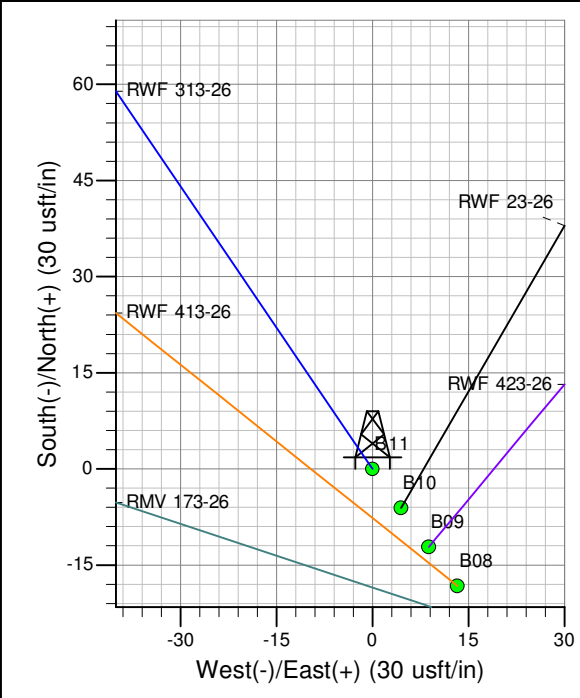
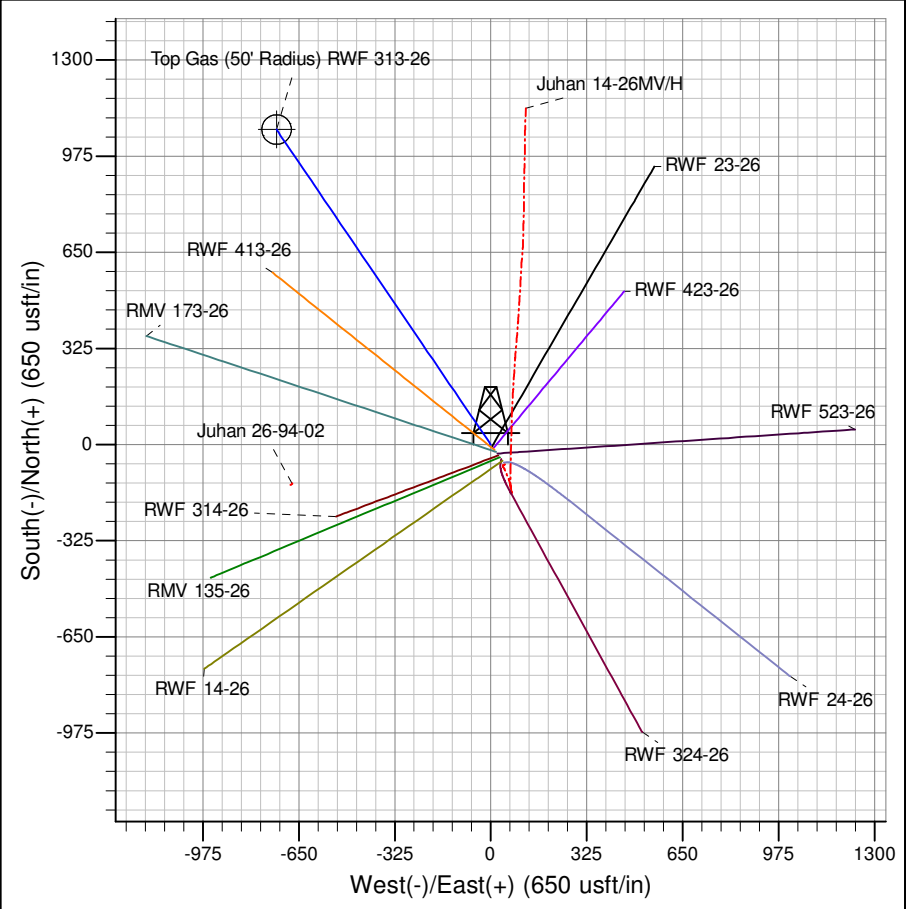




Well Name: RWF 313-26  
Surface Location: JUHAN 14-26H Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5350.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1612828.40000 2334122.80000 39.49225 -107.85973 B11  
KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00	
743.32	754.95	19.05	325.75	86.44	-58.87	104.58	104.58	Hold 19.05° Inc, 325.75° Az	
3567.36	3742.59	19.05	325.75	892.38	-607.71	1079.66	1079.66	Start Drop -1.50	
4814.00	5012.49	0.00	0.00	1065.26	-725.44	1288.82	1288.82	Vertical	
4914.00	5112.49	0.00	0.00	1065.26	-725.44	1288.82	1288.82	Top Gas	
7664.00	7862.49	0.00	0.00	1065.26	-725.44	1288.82	1288.82	TD at 7862.49	



Azimuths to True North  
Magnetic North: 9.87°

Magnetic Field  
Strength: 52013.9snT  
Dip Angle: 65.70°  
Date: 6/5/2014  
Model: IGRF2005-10

Project: RU 26-06S-094W  
Site: JUHAN 14-26H Pad  
Well: RWF 313-26  
Plan #1 05Jun14 mab

# **PICEANCE VLY NAD 83**

**RU 26-06S-094W**

**JUHAN 14-26H Pad**

**RWF 313-26 - Slot B11**

**Wellbore #1**

**Plan: Plan #1 05Jun14 mab**

## **Standard Planning Report - Geographic**

**14 August, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 313-26 - Slot B11
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 313-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 05Jun14 mab		

<b>Project</b>	RU 26-06S-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		Using geodetic scale factor

<b>Site</b>	JUHAN 14-26H Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,612,760.48182 usft	<b>Latitude:</b> 39.49206
<b>From:</b> Map		<b>Easting:</b>	2,334,169.39807 usft	<b>Longitude:</b> -107.85956
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.49 °

<b>Well</b>	RWF 313-26 - Slot B11			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,612,828.40000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,334,122.80000 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	0.00 usft
			<b>Ground Level:</b>	5,350.00 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	6/5/2014	9.87	65.70	52,014

<b>Design</b>	Plan #1 05Jun14 mab			
<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 (bearing)</b>
	0.00	0.00	0.00	325.75

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
754.95	19.05	325.75	743.32	86.44	-58.87	3.00	3.00	0.00	325.75	
3,742.59	19.05	325.75	3,567.36	892.38	-607.71	0.00	0.00	0.00	0.00	
5,012.49	0.00	0.00	4,814.00	1,065.26	-725.44	1.50	-1.50	0.00	180.00	
5,112.49	0.00	0.00	4,914.00	1,065.26	-725.44	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,862.49	0.00	0.00	7,664.00	1,065.26	-725.44	0.00	0.00	0.00	0.00	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 313-26 - Slot B11
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 313-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 05Jun14 mab		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	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	1,612,828.40000	2,334,122.80000	39.49225	-107.85973	
120.00	0.00	0.00	120.00	0.00	0.00	1,612,828.40000	2,334,122.80000	39.49225	-107.85973	
Start Build 3.00										
200.00	2.40	325.75	199.98	1.38	-0.94	1,612,829.80865	2,334,121.89336	39.49225	-107.85973	
400.00	8.40	325.75	399.00	16.93	-11.53	1,612,845.62760	2,334,111.71184	39.49229	-107.85977	
600.00	14.40	325.75	594.96	49.59	-33.77	1,612,878.85241	2,334,090.32741	39.49238	-107.85985	
754.95	19.05	325.75	743.32	86.44	-58.87	1,612,916.33631	2,334,066.20170	39.49249	-107.85994	
Hold 19.05° Inc, 325.75° Az										
800.00	19.05	325.75	785.90	98.59	-67.14	1,612,928.69802	2,334,058.24536	39.49252	-107.85997	
1,000.00	19.05	325.75	974.95	152.54	-103.88	1,612,983.58373	2,334,022.91936	39.49267	-107.86010	
1,100.00	19.05	325.75	1,069.47	179.52	-122.25	1,613,011.02658	2,334,005.25636	39.49274	-107.86016	
9 5/8"										
1,200.00	19.05	325.75	1,164.00	206.50	-140.62	1,613,038.46943	2,333,987.59337	39.49281	-107.86023	
1,400.00	19.05	325.75	1,353.05	260.45	-177.36	1,613,093.35514	2,333,952.26737	39.49296	-107.86036	
1,468.72	19.05	325.75	1,418.00	278.98	-189.99	1,613,112.21300	2,333,940.12992	39.49301	-107.86040	
Top of "G" Sand										
1,574.51	19.05	325.75	1,518.00	307.52	-209.42	1,613,141.24562	2,333,921.44370	39.49309	-107.86047	
Base of "G" Sand										
1,600.00	19.05	325.75	1,542.09	314.40	-214.10	1,613,148.24085	2,333,916.94138	39.49311	-107.86049	
1,800.00	19.05	325.75	1,731.14	368.35	-250.85	1,613,203.12656	2,333,881.61538	39.49326	-107.86062	
2,000.00	19.05	325.75	1,920.19	422.30	-287.59	1,613,258.01226	2,333,846.28939	39.49341	-107.86075	
2,200.00	19.05	325.75	2,109.24	476.25	-324.33	1,613,312.89796	2,333,810.96339	39.49356	-107.86088	
2,400.00	19.05	325.75	2,298.29	530.21	-361.07	1,613,367.78367	2,333,775.63740	39.49370	-107.86101	
2,600.00	19.05	325.75	2,487.34	584.16	-397.81	1,613,422.66938	2,333,740.31140	39.49385	-107.86114	
2,800.00	19.05	325.75	2,676.38	638.11	-434.55	1,613,477.55508	2,333,704.98541	39.49400	-107.86127	
3,000.00	19.05	325.75	2,865.43	692.06	-471.29	1,613,532.44079	2,333,669.65942	39.49415	-107.86140	
3,200.00	19.05	325.75	3,054.48	746.01	-508.03	1,613,587.32650	2,333,634.33342	39.49430	-107.86153	
3,400.00	19.05	325.75	3,243.53	799.97	-544.77	1,613,642.21221	2,333,599.00743	39.49444	-107.86166	
3,600.00	19.05	325.75	3,432.58	853.92	-581.52	1,613,697.09790	2,333,563.68143	39.49459	-107.86179	
3,742.59	19.05	325.75	3,567.36	892.38	-607.71	1,613,736.22737	2,333,538.49660	39.49470	-107.86188	
Start Drop -1.50										
3,800.00	18.19	325.75	3,621.77	907.53	-618.03	1,613,751.64006	2,333,528.57656	39.49474	-107.86192	
4,000.00	15.19	325.75	3,813.32	955.00	-650.35	1,613,799.92455	2,333,497.49930	39.49487	-107.86204	
4,070.99	14.12	325.75	3,882.00	969.84	-660.46	1,613,815.02628	2,333,487.77939	39.49491	-107.86207	
Mesaverde										
4,200.00	12.19	325.75	4,007.62	994.11	-676.98	1,613,839.71316	2,333,471.89022	39.49498	-107.86213	
4,400.00	9.19	325.75	4,204.13	1,024.76	-697.86	1,613,870.89683	2,333,451.81952	39.49506	-107.86220	
4,600.00	6.19	325.75	4,402.31	1,046.87	-712.92	1,613,893.39011	2,333,437.34222	39.49512	-107.86226	
4,800.00	3.19	325.75	4,601.61	1,060.38	-722.11	1,613,907.13132	2,333,428.49798	39.49516	-107.86229	
5,000.00	0.19	325.75	4,801.51	1,065.25	-725.43	1,613,912.08282	2,333,425.31106	39.49517	-107.86230	
5,012.49	0.00	0.00	4,814.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
Vertical										
5,112.49	0.00	0.00	4,914.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
Top Gas - Approx. Top Gas										
5,200.00	0.00	0.00	5,001.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
5,400.00	0.00	0.00	5,201.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
5,600.00	0.00	0.00	5,401.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
5,800.00	0.00	0.00	5,601.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
6,000.00	0.00	0.00	5,801.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
6,200.00	0.00	0.00	6,001.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
6,400.00	0.00	0.00	6,201.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
6,600.00	0.00	0.00	6,401.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 313-26 - Slot B11
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 313-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 05Jun14 mab		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,800.00	0.00	0.00	6,601.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
6,859.49	0.00	0.00	6,661.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
Cameo Coals										
7,000.00	0.00	0.00	6,801.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
7,200.00	0.00	0.00	7,001.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
7,400.00	0.00	0.00	7,201.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
7,600.00	0.00	0.00	7,401.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
7,635.49	0.00	0.00	7,437.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
Coal D										
7,712.49	0.00	0.00	7,514.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
Rollins SS										
7,800.00	0.00	0.00	7,601.51	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
7,862.49	0.00	0.00	7,664.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
TD at 7862.49 - TD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Top Gas (50' Radius) RV	0.00	0.00	4,914.00	1,065.26	-725.44	1,613,912.10000	2,333,425.30000	39.49517	-107.86230	
- plan hits target center										
- Circle (radius 50.00)										

Casing Points							Casing Diameter (in)	Hole Diameter (in)
Measured Depth (usft)	Vertical Depth (usft)	Name						
1,100.00	1,069.47	9 5/8"					9.625	13.500

Formations							Dip (°)	Dip Direction (bearing)
Measured Depth (usft)	Vertical Depth (usft)	Name		Lithology				
1,468.72	1,418.00	Top of "G" Sand						
1,574.51	1,518.00	Base of "G" Sand						
4,070.99	3,882.00	Mesaverde						
5,112.49	4,914.00	Approx. Top Gas						
6,859.49	6,661.00	Cameo Coals						
7,635.49	7,437.00	Coal D						
7,712.49	7,514.00	Rollins SS						
7,862.49	7,664.00	TD						

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RWF 313-26 - Slot B11
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 573 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RWF 313-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 05Jun14 mab		

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 3.00
754.95	743.32	86.44	-58.87	Hold 19.05° Inc, 325.75° Az
3,742.59	3,567.36	892.38	-607.71	Start Drop -1.50
5,012.49	4,814.00	1,065.26	-725.44	Vertical
5,112.49	4,914.00	1,065.26	-725.44	Top Gas
7,862.49	7,664.00	1,065.26	-725.44	TD at 7862.49