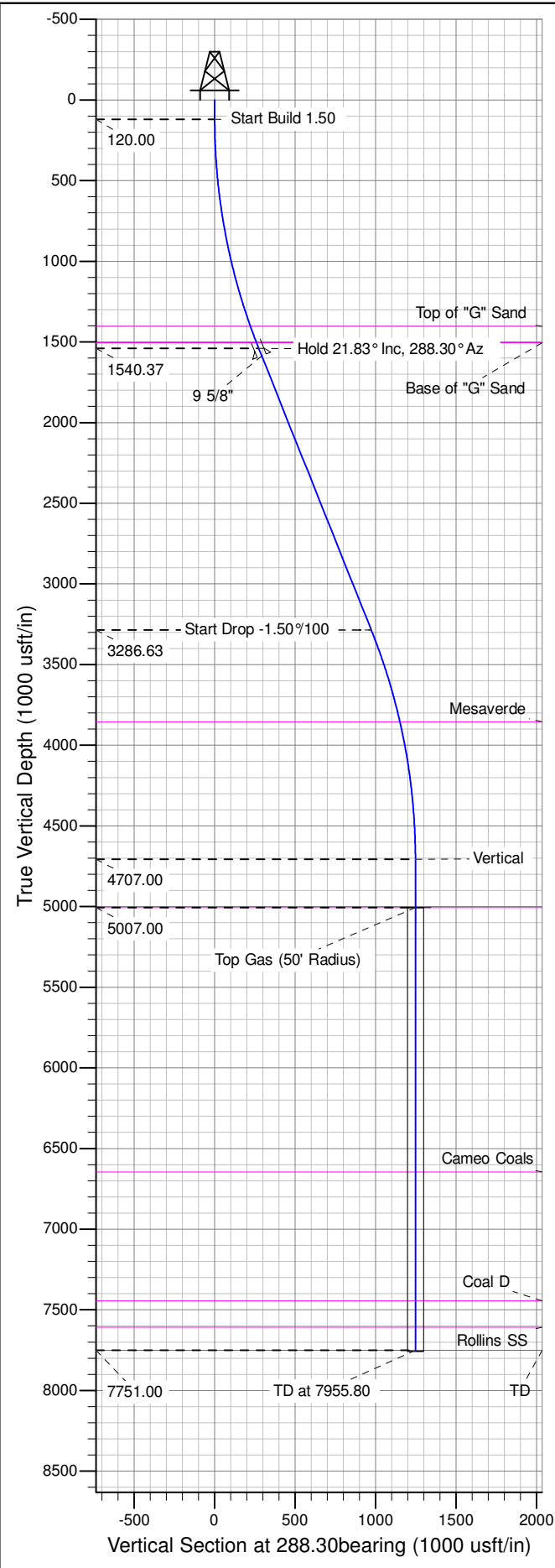
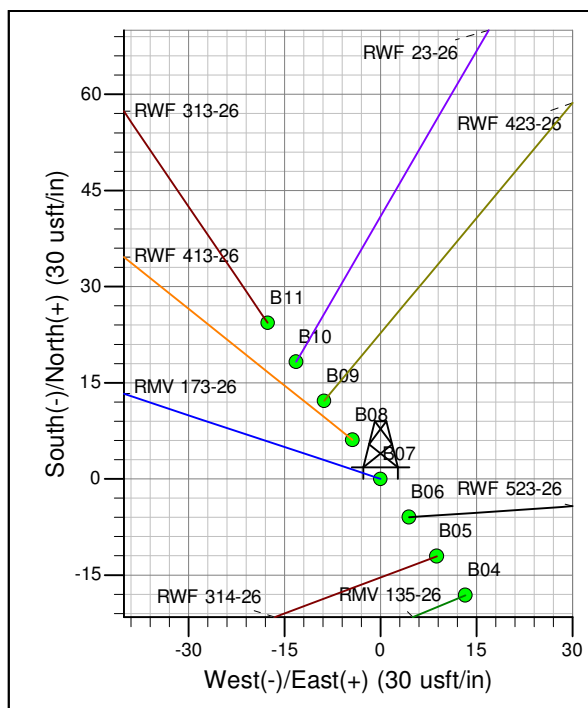
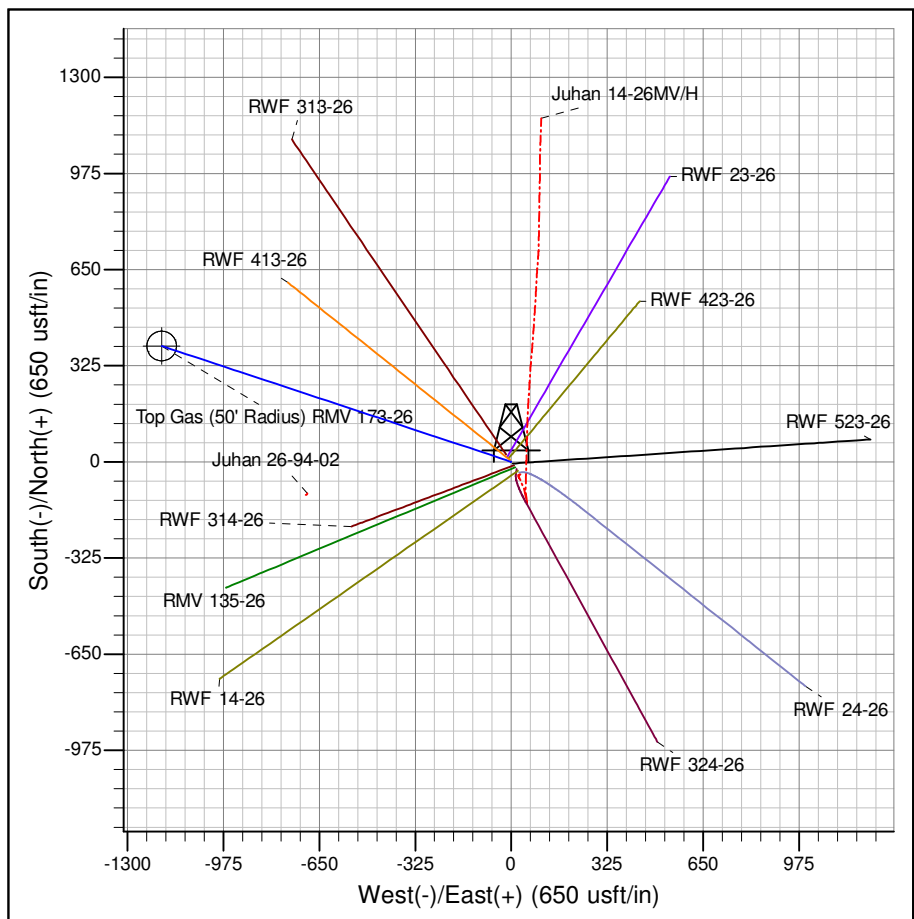




Well Name: RMV 173-26  
Surface Location: JUHAN 14-26H Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5350.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1612803.60000 2334139.80000 39.49218 -107.85967 B07  
KELLY BUSHING @ 5376.00usft (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 1.50	
1540.37	1575.32	21.83	288.30	86.01	-260.05	273.90	273.90	Hold 21.83° Inc, 288.30° Az	
3286.63	3456.48	21.83	288.30	305.68	-924.17	973.41	973.41	Start Drop -1.50°/100	
4707.00	4911.80	0.00	0.00	391.69	-1184.22	1247.32	1247.32	Vertical	
5007.00	5211.80	0.00	0.00	391.69	-1184.22	1247.32	1247.32	Top Gas	
7751.00	7955.80	0.00	0.00	391.69	-1184.22	1247.32	1247.32	TD at 7955.80	



Azimuths to True North  
Magnetic North: 9.87°

Magnetic Field  
Strength: 52013.6snT  
Dip Angle: 65.70°  
Date: 6/6/2014  
Model: IGRF2005-10

Project: RU 26-06S-094W  
Site: JUHAN 14-26H Pad  
Well: RMV 173-26  
Plan #1 06Jun14 mab

# **PICEANCE VLY NAD 83**

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

**JUHAN 14-26H Pad**

**RMV 173-26 - Slot B07**

**Wellbore #1**

**Plan: Plan #1 06Jun14 mab**

## **Standard Planning Report - Geographic**

**14 August, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 173-26 - Slot B07
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RMV 173-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 06Jun14 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>	RMV 173-26 - Slot B07			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,612,803.60000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,334,139.80000 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	6/6/2014	9.87	65.70	52,014

<b>Design</b>	Plan #1 06Jun14 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	288.30

<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	
1,575.32	21.83	288.30	1,540.37	86.01	-260.05	1.50	1.50	0.00	288.30	
3,456.48	21.83	288.30	3,286.63	305.68	-924.17	0.00	0.00	0.00	0.00	
4,911.80	0.00	0.00	4,707.00	391.69	-1,184.22	1.50	-1.50	0.00	180.00	
5,211.80	0.00	0.00	5,007.00	391.69	-1,184.22	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,955.80	0.00	0.00	7,751.00	391.69	-1,184.22	0.00	0.00	0.00	0.00	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 173-26 - Slot B07
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RMV 173-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 06Jun14 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	1,612,803.60000	2,334,139.80000	39.49218	-107.85967	
120.00	0.00	0.00	120.00	0.00	0.00	1,612,803.60000	2,334,139.80000	39.49218	-107.85967	
Start Build 1.50										
200.00	1.20	288.30	199.99	0.26	-0.80	1,612,803.88363	2,334,139.01178	39.49218	-107.85967	
400.00	4.20	288.30	399.75	3.22	-9.74	1,612,807.07300	2,334,130.14831	39.49219	-107.85970	
600.00	7.20	288.30	598.74	9.46	-28.60	1,612,813.79750	2,334,111.46048	39.49221	-107.85977	
800.00	10.20	288.30	796.41	18.96	-57.31	1,612,824.03870	2,334,082.99950	39.49223	-107.85987	
1,000.00	13.20	288.30	992.24	31.69	-95.82	1,612,837.76853	2,334,044.84338	39.49227	-107.86001	
1,200.00	16.20	288.30	1,185.67	47.63	-143.99	1,612,854.94936	2,333,997.09671	39.49231	-107.86018	
1,400.00	19.20	288.30	1,376.18	66.72	-201.72	1,612,875.53409	2,333,939.89036	39.49236	-107.86038	
1,430.56	19.66	288.30	1,405.00	69.91	-211.37	1,612,878.97607	2,333,930.32487	39.49237	-107.86042	
Top of "G" Sand										
1,537.30	21.26	288.30	1,505.00	81.63	-246.79	1,612,891.60690	2,333,895.22290	39.49241	-107.86054	
Base of "G" Sand										
1,575.32	21.83	288.30	1,540.37	86.01	-260.05	1,612,896.33442	2,333,882.08482	39.49242	-107.86059	
Hold 21.83° Inc, 288.30° Az										
1,600.00	21.83	288.30	1,563.28	88.90	-268.76	1,612,899.44126	2,333,873.45070	39.49243	-107.86062	
1,625.32	21.83	288.30	1,586.78	91.85	-277.70	1,612,902.62896	2,333,864.59187	39.49243	-107.86065	
9 5/8"										
1,800.00	21.83	288.30	1,748.93	112.25	-339.37	1,612,924.62054	2,333,803.47580	39.49249	-107.86087	
2,000.00	21.83	288.30	1,934.59	135.60	-409.98	1,612,949.79982	2,333,733.50090	39.49255	-107.86112	
2,200.00	21.83	288.30	2,120.25	158.96	-480.58	1,612,974.97909	2,333,663.52601	39.49262	-107.86137	
2,400.00	21.83	288.30	2,305.91	182.31	-551.19	1,613,000.15837	2,333,593.55112	39.49268	-107.86162	
2,600.00	21.83	288.30	2,491.57	205.67	-621.80	1,613,025.33765	2,333,523.57622	39.49275	-107.86187	
2,800.00	21.83	288.30	2,677.23	229.02	-692.41	1,613,050.51692	2,333,453.60132	39.49281	-107.86212	
3,000.00	21.83	288.30	2,862.88	252.38	-763.02	1,613,075.69620	2,333,383.62642	39.49287	-107.86237	
3,200.00	21.83	288.30	3,048.54	275.73	-833.62	1,613,100.87548	2,333,313.65154	39.49294	-107.86262	
3,400.00	21.83	288.30	3,234.20	299.08	-904.23	1,613,126.05475	2,333,243.67664	39.49300	-107.86287	
3,456.48	21.83	288.30	3,286.63	305.68	-924.17	1,613,133.16558	2,333,223.91517	39.49302	-107.86294	
Start Drop -1.50°/100										
3,600.00	19.68	288.30	3,420.83	321.65	-972.45	1,613,150.38249	2,333,176.06823	39.49306	-107.86311	
3,800.00	16.68	288.30	3,610.83	341.24	-1,031.68	1,613,171.50355	2,333,117.37140	39.49312	-107.86332	
4,000.00	13.68	288.30	3,803.83	357.68	-1,081.39	1,613,189.22905	2,333,068.11103	39.49316	-107.86350	
4,052.58	12.89	288.30	3,855.00	361.47	-1,092.86	1,613,193.31878	2,333,056.74539	39.49317	-107.86354	
Mesaverde										
4,200.00	10.68	288.30	3,999.31	370.93	-1,121.43	1,613,203.51042	2,333,028.42216	39.49320	-107.86364	
4,400.00	7.68	288.30	4,196.73	380.94	-1,151.72	1,613,214.30850	2,332,998.41356	39.49323	-107.86375	
4,600.00	4.68	288.30	4,395.54	387.70	-1,172.14	1,613,221.59370	2,332,978.16749	39.49325	-107.86382	
4,800.00	1.68	288.30	4,595.21	391.18	-1,182.67	1,613,225.34606	2,332,967.73944	39.49325	-107.86386	
4,911.80	0.00	0.00	4,707.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
Vertical										
5,000.00	0.00	0.00	4,795.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
5,200.00	0.00	0.00	4,995.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
5,211.80	0.00	0.00	5,007.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
Top Gas - Approx. Top Gas										
5,400.00	0.00	0.00	5,195.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
5,600.00	0.00	0.00	5,395.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
5,800.00	0.00	0.00	5,595.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
6,000.00	0.00	0.00	5,795.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
6,200.00	0.00	0.00	5,995.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
6,400.00	0.00	0.00	6,195.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
6,600.00	0.00	0.00	6,395.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 173-26 - Slot B07
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RMV 173-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 06Jun14 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	6,595.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
6,849.80	0.00	0.00	6,645.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
Cameo Coals										
7,000.00	0.00	0.00	6,795.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
7,200.00	0.00	0.00	6,995.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
7,400.00	0.00	0.00	7,195.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
7,600.00	0.00	0.00	7,395.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
7,649.80	0.00	0.00	7,445.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
Coal D										
7,800.00	0.00	0.00	7,595.20	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
7,811.80	0.00	0.00	7,607.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
Rollins SS										
7,955.80	0.00	0.00	7,751.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
TD at 7955.80 - 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) RM	0.00	0.00	5,007.00	391.69	-1,184.22	1,613,225.90000	2,332,966.20000	39.49326	-107.86387	
- plan hits target center										
- Circle (radius 50.00)										

Casing Points							Casing Diameter (in)	Hole Diameter (in)
Measured Depth (usft)	Vertical Depth (usft)	Name						
1,625.32	1,586.78	9 5/8"					9.625	13.500

Formations							Dip (°)	Dip Direction (bearing)
Measured Depth (usft)	Vertical Depth (usft)	Name		Lithology				
1,430.56	1,405.00	Top of "G" Sand						
1,537.30	1,505.00	Base of "G" Sand						
4,052.58	3,855.00	Mesaverde						
5,211.80	5,007.00	Approx. Top Gas						
6,849.80	6,645.00	Cameo Coals						
7,649.80	7,445.00	Coal D						
7,811.80	7,607.00	Rollins SS						
7,955.80	7,751.00	TD				0.00		

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 173-26 - Slot B07
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Project:</b>	RU 26-06S-094W	<b>MD Reference:</b>	KELLY BUSHING @ 5376.00usft (Nabors 577 (26' RKB) mab)
<b>Site:</b>	JUHAN 14-26H Pad	<b>North Reference:</b>	True
<b>Well:</b>	RMV 173-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 06Jun14 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 1.50
1,575.32	1,540.37	86.01	-260.05	Hold 21.83° Inc, 288.30° Az
3,456.48	3,286.63	305.68	-924.17	Start Drop -1.50°/100
4,911.80	4,707.00	391.69	-1,184.22	Vertical
5,211.80	5,007.00	391.69	-1,184.22	Top Gas
7,955.80	7,751.00	391.69	-1,184.22	TD at 7955.80