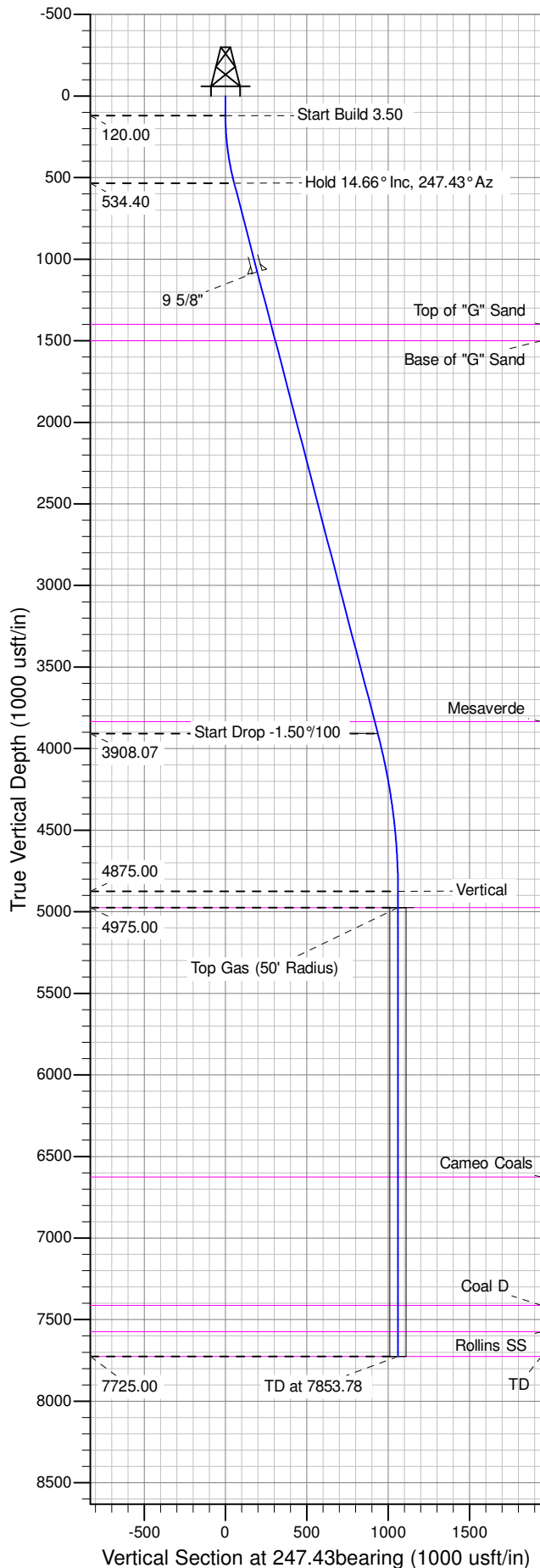
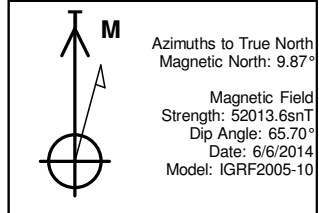
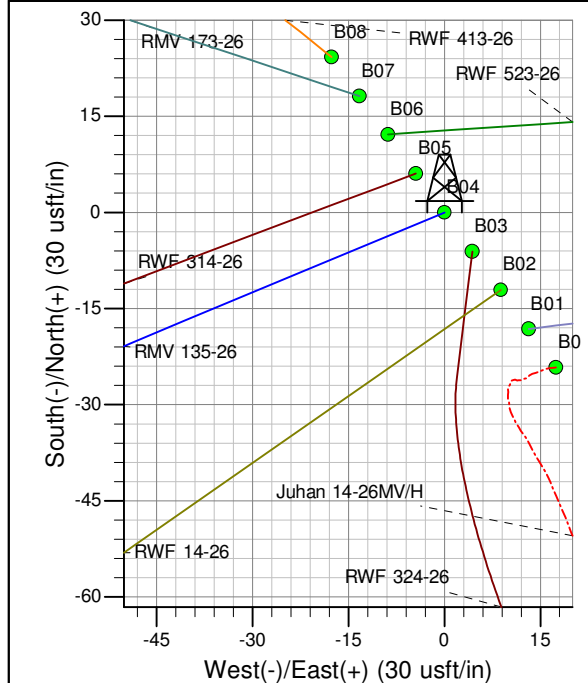
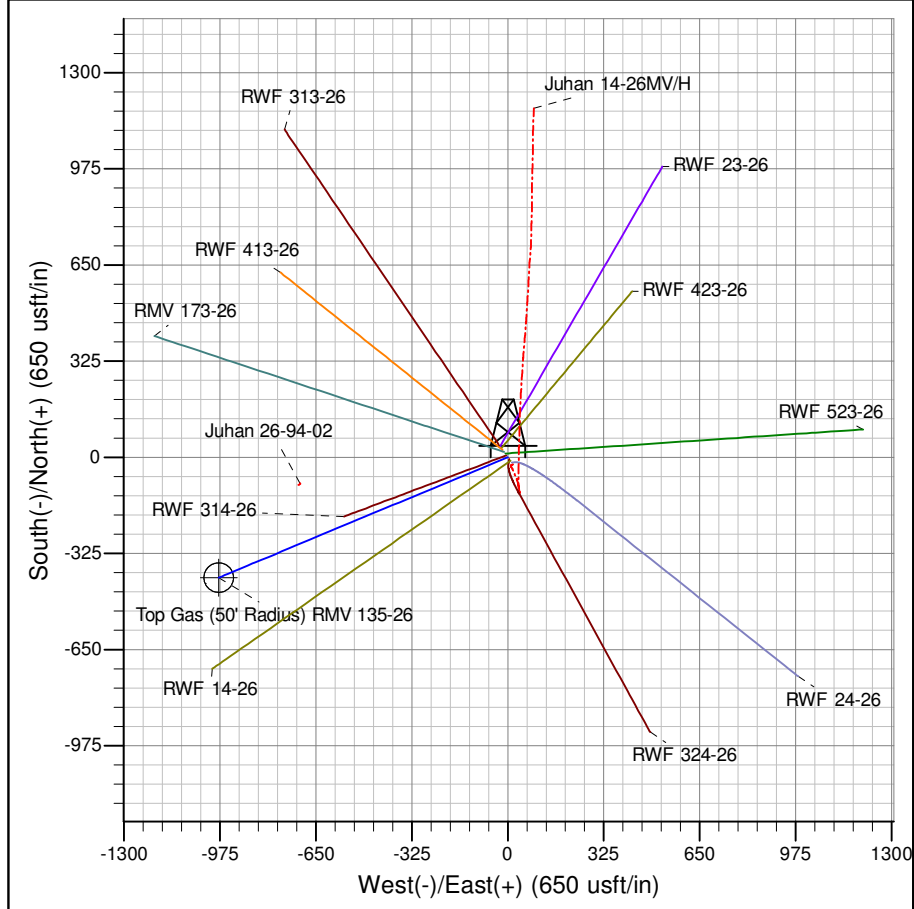




Well Name: RMV 135-26  
Surface Location: JUHAN 14-26H Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5350.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1612785.10000 2334152.60000 39.49213 -107.85962 B04  
KELLY BUSHING @ 5376.00usft (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 3.50	
534.40	538.96	14.66	247.43	-20.46	-49.24	53.32	53.32	Hold 14.66° Inc, 247.43° Az	
3908.07	4026.21	14.66	247.43	-359.24	-864.42	936.09	936.09	Start Drop -1.50°/100	
4875.00	5003.78	0.00	0.00	-406.99	-979.30	1060.50	1060.50	Vertical	
4975.00	5103.78	0.00	0.00	-406.99	-979.30	1060.50	1060.50	Top Gas	
7725.00	7853.78	0.00	0.00	-406.99	-979.30	1060.50	1060.50	TD at 7853.78	



Project: RU 26-06S-094W  
Site: JUHAN 14-26H Pad  
Well: RMV 135-26  
Plan #1 06Jun14 mab

# **PICEANCE VLY NAD 83**

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

**JUHAN 14-26H Pad**

**RMV 135-26 - Slot B04**

**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 135-26 - Slot B04
<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 135-26	<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 135-26 - Slot B04			
<b>Well Position</b>	<b>+N/-S</b>	-0.09 usft	<b>Northing:</b>	1,612,785.10000 usft
	<b>+E/-W</b>	0.21 usft	<b>Easting:</b>	2,334,152.60000 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	-0.09	0.21	247.43

<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	-0.09	0.21	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	-0.09	0.21	0.00	0.00	0.00	0.00	
538.96	14.66	247.43	534.40	-20.55	-49.02	3.50	3.50	0.00	247.43	
4,026.21	14.66	247.43	3,908.07	-359.33	-864.20	0.00	0.00	0.00	0.00	
5,003.78	0.00	0.00	4,875.00	-407.07	-979.09	1.50	-1.50	0.00	180.00	
5,103.78	0.00	0.00	4,975.00	-407.07	-979.09	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,853.78	0.00	0.00	7,725.00	-407.07	-979.09	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 135-26 - Slot B04
<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 135-26	<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	-0.09	0.21	1,612,785.10000	2,334,152.60000	39.49213	-107.85962
120.00	0.00	0.00	120.00	-0.09	0.21	1,612,785.10000	2,334,152.60000	39.49213	-107.85962
<b>Start Build 3.50</b>									
200.00	2.80	247.43	199.97	-0.84	-1.59	1,612,784.39713	2,334,150.77647	39.49213	-107.85963
400.00	9.80	247.43	398.64	-9.25	-21.85	1,612,776.50906	2,334,130.31174	39.49211	-107.85970
538.96	14.66	247.43	534.40	-20.55	-49.02	1,612,765.92404	2,334,102.85009	39.49208	-107.85980
<b>Hold 14.66° Inc, 247.43° Az</b>									
600.00	14.66	247.43	593.45	-26.48	-63.29	1,612,760.36693	2,334,088.43280	39.49206	-107.85985
800.00	14.66	247.43	786.94	-45.91	-110.04	1,612,742.15886	2,334,041.19397	39.49201	-107.86001
1,000.00	14.66	247.43	980.42	-65.34	-156.80	1,612,723.95078	2,333,993.95514	39.49195	-107.86018
1,100.00	14.66	247.43	1,077.17	-75.05	-180.17	1,612,714.84675	2,333,970.33572	39.49193	-107.86026
<b>9 5/8"</b>									
1,200.00	14.66	247.43	1,173.91	-84.77	-203.55	1,612,705.74271	2,333,946.71631	39.49190	-107.86034
1,400.00	14.66	247.43	1,367.40	-104.20	-250.30	1,612,687.53463	2,333,899.47748	39.49185	-107.86051
1,433.70	14.66	247.43	1,400.00	-107.47	-258.18	1,612,684.46645	2,333,891.51742	39.49184	-107.86054
<b>Top of "G" Sand</b>									
1,537.07	14.66	247.43	1,500.00	-117.51	-282.34	1,612,675.05590	2,333,867.10280	39.49181	-107.86062
<b>Base of "G" Sand</b>									
1,600.00	14.66	247.43	1,560.88	-123.63	-297.05	1,612,669.32656	2,333,852.23865	39.49179	-107.86068
1,800.00	14.66	247.43	1,754.37	-143.06	-343.80	1,612,651.11848	2,333,804.99982	39.49174	-107.86084
2,000.00	14.66	247.43	1,947.85	-162.49	-390.56	1,612,632.91041	2,333,757.76099	39.49169	-107.86101
2,200.00	14.66	247.43	2,141.34	-181.92	-437.31	1,612,614.70234	2,333,710.52217	39.49163	-107.86117
2,400.00	14.66	247.43	2,334.83	-201.35	-484.06	1,612,596.49426	2,333,663.28334	39.49158	-107.86134
2,600.00	14.66	247.43	2,528.31	-220.78	-530.81	1,612,578.28619	2,333,616.04451	39.49153	-107.86150
2,800.00	14.66	247.43	2,721.80	-240.20	-577.56	1,612,560.07811	2,333,568.80568	39.49147	-107.86167
3,000.00	14.66	247.43	2,915.28	-259.63	-624.32	1,612,541.87004	2,333,521.56685	39.49142	-107.86183
3,200.00	14.66	247.43	3,108.77	-279.06	-671.07	1,612,523.66196	2,333,474.32802	39.49137	-107.86200
3,400.00	14.66	247.43	3,302.25	-298.49	-717.82	1,612,505.45389	2,333,427.08919	39.49131	-107.86217
3,600.00	14.66	247.43	3,495.74	-317.92	-764.57	1,612,487.24582	2,333,379.85036	39.49126	-107.86233
3,800.00	14.66	247.43	3,689.23	-337.35	-811.32	1,612,469.03775	2,333,332.61154	39.49121	-107.86250
3,950.68	14.66	247.43	3,835.00	-351.99	-846.55	1,612,455.31960	2,333,297.02132	39.49117	-107.86262
<b>Mesaverde</b>									
4,000.00	14.66	247.43	3,882.71	-356.78	-858.08	1,612,450.82968	2,333,285.37271	39.49115	-107.86266
4,026.21	14.66	247.43	3,908.07	-359.33	-864.20	1,612,448.44351	2,333,279.18206	39.49114	-107.86268
<b>Start Drop -1.50°/100</b>									
4,200.00	12.06	247.43	4,077.14	-374.74	-901.28	1,612,434.00240	2,333,241.71622	39.49110	-107.86282
4,400.00	9.06	247.43	4,273.73	-388.80	-935.11	1,612,420.82610	2,333,207.53175	39.49106	-107.86294
4,600.00	6.06	247.43	4,471.97	-398.89	-959.40	1,612,411.36814	2,333,182.99412	39.49104	-107.86302
4,800.00	3.06	247.43	4,671.32	-404.99	-974.07	1,612,405.65444	2,333,168.17057	39.49102	-107.86307
5,000.00	0.06	247.43	4,871.22	-407.07	-979.09	1,612,403.70067	2,333,163.10174	39.49101	-107.86309
5,003.78	0.00	0.00	4,875.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
<b>Vertical</b>									
5,103.78	0.00	0.00	4,975.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
<b>Top Gas - Approx. Top Gas</b>									
5,200.00	0.00	0.00	5,071.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
5,400.00	0.00	0.00	5,271.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
5,600.00	0.00	0.00	5,471.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
5,800.00	0.00	0.00	5,671.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
6,000.00	0.00	0.00	5,871.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
6,200.00	0.00	0.00	6,071.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
6,400.00	0.00	0.00	6,271.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309
6,600.00	0.00	0.00	6,471.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 135-26 - Slot B04
<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 135-26	<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	
6,753.78	0.00	0.00	6,625.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
<b>Cameo Coals</b>										
6,800.00	0.00	0.00	6,671.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,000.00	0.00	0.00	6,871.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,200.00	0.00	0.00	7,071.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,400.00	0.00	0.00	7,271.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,541.78	0.00	0.00	7,413.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
<b>Coal D</b>										
7,600.00	0.00	0.00	7,471.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,703.78	0.00	0.00	7,575.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
<b>Rollins SS</b>										
7,800.00	0.00	0.00	7,671.22	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
7,853.78	0.00	0.00	7,725.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
<b>TD at 7853.78 - TD</b>										

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	4,975.00	-407.07	-979.09	1,612,403.70000	2,333,163.10000	39.49101	-107.86309	
- plan hits target center										
- Circle (radius 50.00)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,077.17	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
1,433.70	1,400.00	Top of "G" Sand				
1,537.07	1,500.00	Base of "G" Sand				
3,950.68	3,835.00	Mesaverde				
5,103.78	4,975.00	Approx. Top Gas				
6,753.78	6,625.00	Cameo Coals				
7,541.78	7,413.00	Coal D				
7,703.78	7,575.00	Rollins SS				
7,853.78	7,725.00	TD				

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RMV 135-26 - Slot B04
<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 135-26	<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	-0.09	0.21	Start Build 3.50
538.96	534.40	-20.55	-49.02	Hold 14.66° Inc, 247.43° Az
4,026.21	3,908.07	-359.33	-864.20	Start Drop -1.50°/100
5,003.78	4,875.00	-407.07	-979.09	Vertical
5,103.78	4,975.00	-407.07	-979.09	Top Gas
7,853.78	7,725.00	-407.07	-979.09	TD at 7853.78