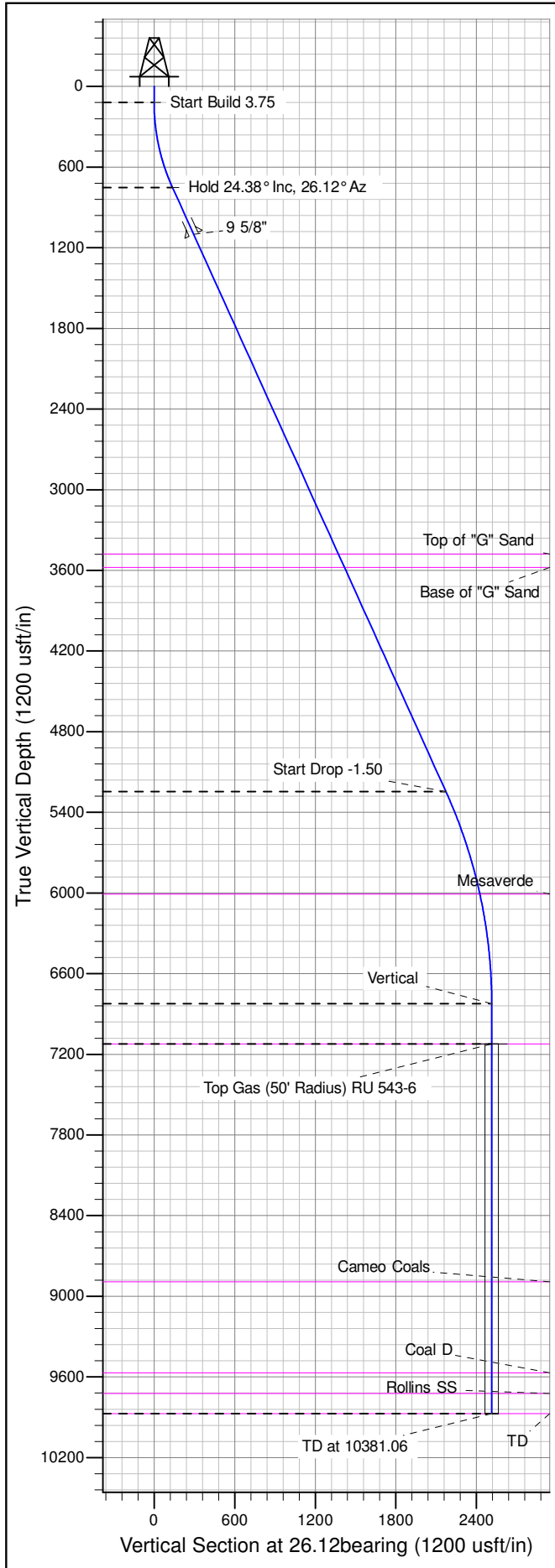
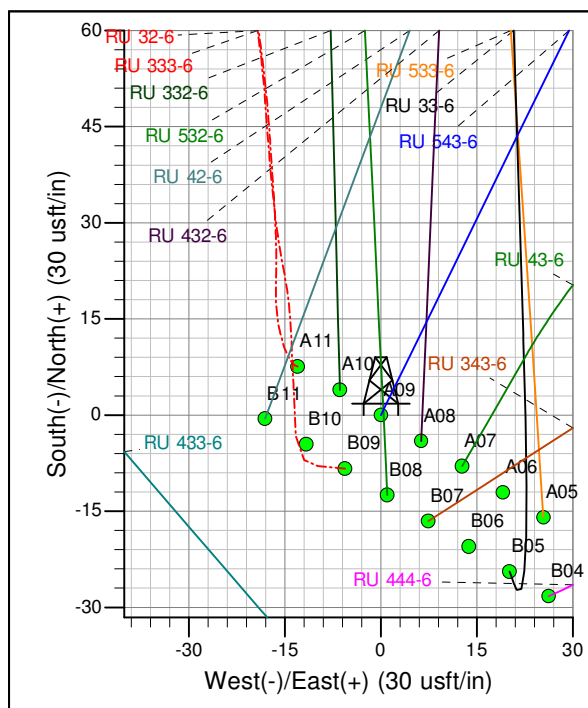
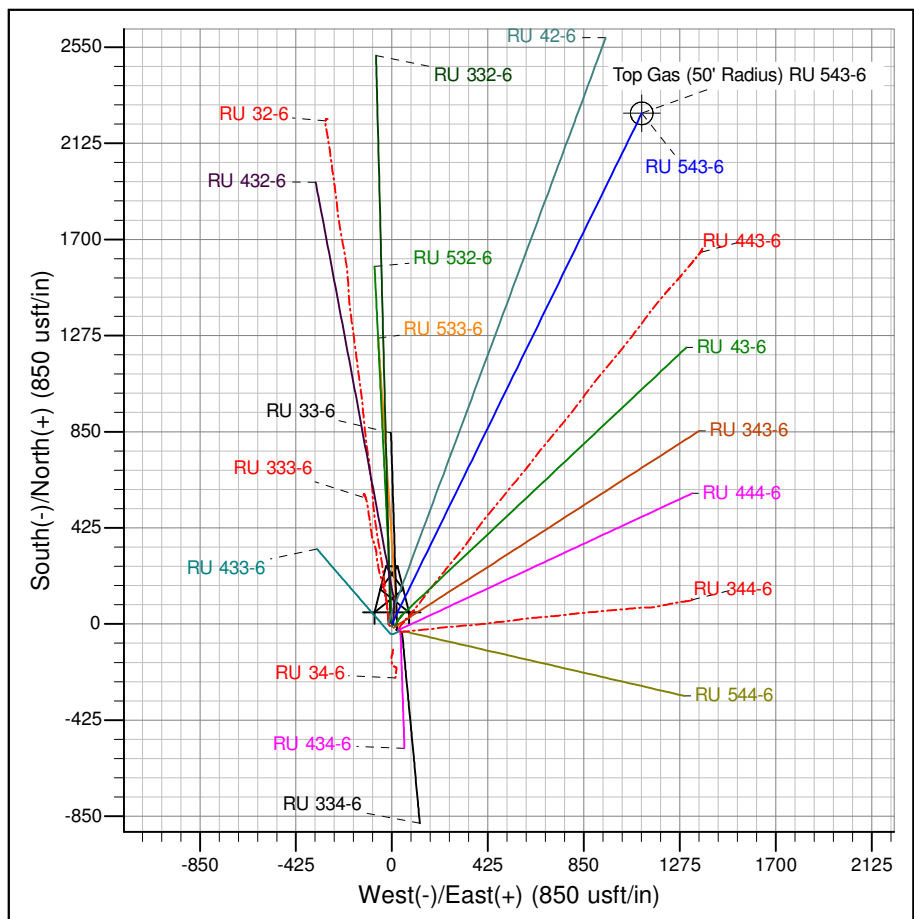




Well Name: RU 543-6  
Surface Location: RU 34-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7537.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1603613.30000 2346549.50000 39.46783 -107.81488 A09  
KELLY BUSHING @ 7563.00usft (Nabors 574 (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	3.75
750.62	770.05	24.38	26.12	122.30	59.96	136.21	136.21	Hold 24.38° Inc, 26.12° Az	
5246.46	5705.93	24.38	26.12	1951.52	956.75	2173.44	2173.44	Start Drop -1.50	
6823.00	7331.06	0.00	0.00	2257.28	1106.66	2513.96	2513.96	Vertical	
7123.00	7631.06	0.00	0.00	2257.28	1106.66	2513.96	2513.96	Top Gas	
9873.00	10381.06	0.00	0.00	2257.28	1106.66	2513.96	2513.96	TD at 10381.06	



Azimuths to True North  
Magnetic North: 10.59°

Magnetic Field  
Strength: 52537.4snT  
Dip Angle: 65.83°  
Date: 10/21/2008  
Model: IGRF2005-10

Project: RU 06-07S-093W  
Site: RU 34-6 Pad  
Well: RU 543-6  
Plan #4 10Jul14 mab



## **PICEANCE VLY NAD 83**

**RU 06-07S-093W**

**RU 34-6 Pad**

**RU 543-6 - Slot A09**

**Wellbore #1**

**Plan: Plan #4 10Jul14 mab**

## **Standard Planning Report - Geographic**

**14 August, 2014**



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 543-6 - Slot A09
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 34-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 543-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 10Jul14 mab		

<b>Project</b>	RU 06-07S-093W		
<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>	RU 34-6 Pad			
<b>Site Position:</b>		<b>Northing:</b>	1,603,613.20000 usft	<b>Latitude:</b> 39.46783
<b>From:</b> Map		<b>Easting:</b>	2,346,531.50000 usft	<b>Longitude:</b> -107.81494
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b> -1.46 °

Well	RU 543-6 - Slot A09					
Well Position	+N/-S	0.00 usft	Northing:	1,603,613.30000 usft	Latitude:	39.46783
	+E/-W	0.00 usft	Easting:	2,346,549.50000 usft	Longitude:	-107.81488
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	7,537.00 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	10/21/2008	10.59	65.83	52,537

<b>Design</b>	Plan #4 10Jul14 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	26.12

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (bearing)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
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	
770.05	24.38	26.12	750.62	122.30	59.96	3.75	3.75	0.00	26.12	
5,705.93	24.38	26.12	5,246.46	1,951.52	956.75	0.00	0.00	0.00	0.00	
7,331.06	0.00	0.00	6,823.00	2,257.28	1,106.66	1.50	-1.50	0.00	180.00	
7,631.06	0.00	0.00	7,123.00	2,257.28	1,106.66	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,381.06	0.00	0.00	9,873.00	2,257.28	1,106.66	0.00	0.00	0.00	0.00	



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 543-6 - Slot A09
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 34-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 543-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 10Jul14 mab		

Planned Survey										
Measured			Vertical			Map		Map		
Depth (usft)	Inclination (°)	Azimuth (bearing)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
0.00	0.00	0.00	0.00	0.00	0.00	1,603,613.30000	2,346,549.50000	39.46783	-107.81488	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,613.30000	2,346,549.50000	39.46783	-107.81488	
Start Build 3.75										
200.00	3.00	26.12	199.96	1.88	0.92	1,603,615.15595	2,346,550.46931	39.46784	-107.81488	
400.00	10.50	26.12	398.44	22.97	11.26	1,603,635.97698	2,346,561.34358	39.46790	-107.81484	
600.00	18.00	26.12	592.14	67.14	32.92	1,603,679.58152	2,346,584.11706	39.46802	-107.81476	
770.05	24.38	26.12	750.62	122.30	59.96	1,603,734.03149	2,346,612.55483	39.46817	-107.81467	
Hold 24.38° Inc, 26.12° Az										
800.00	24.38	26.12	777.90	133.40	65.40	1,603,744.98726	2,346,618.27673	39.46820	-107.81465	
1,000.00	24.38	26.12	960.07	207.52	101.74	1,603,818.15352	2,346,656.48952	39.46840	-107.81452	
1,153.63	24.38	26.12	1,100.00	264.46	129.65	1,603,874.35654	2,346,685.84285	39.46856	-107.81442	
9 5/8"										
1,200.00	24.38	26.12	1,142.24	281.64	138.08	1,603,891.31980	2,346,694.70231	39.46861	-107.81439	
1,400.00	24.38	26.12	1,324.41	355.76	174.42	1,603,964.48608	2,346,732.91510	39.46881	-107.81426	
1,600.00	24.38	26.12	1,506.58	429.88	210.75	1,604,037.65236	2,346,771.12789	39.46901	-107.81413	
1,800.00	24.38	26.12	1,688.75	504.00	247.09	1,604,110.81864	2,346,809.34067	39.46922	-107.81401	
2,000.00	24.38	26.12	1,870.92	578.12	283.43	1,604,183.98491	2,346,847.55346	39.46942	-107.81388	
2,200.00	24.38	26.12	2,053.08	652.24	319.77	1,604,257.15118	2,346,885.76625	39.46962	-107.81375	
2,400.00	24.38	26.12	2,235.25	726.36	356.10	1,604,330.31746	2,346,923.97904	39.46983	-107.81362	
2,600.00	24.38	26.12	2,417.42	800.48	392.44	1,604,403.48374	2,346,962.19183	39.47003	-107.81349	
2,800.00	24.38	26.12	2,599.59	874.60	428.78	1,604,476.65002	2,347,000.40462	39.47024	-107.81336	
3,000.00	24.38	26.12	2,781.76	948.72	465.12	1,604,549.81630	2,347,038.61741	39.47044	-107.81323	
3,200.00	24.38	26.12	2,963.93	1,022.84	501.46	1,604,622.98257	2,347,076.83020	39.47064	-107.81310	
3,400.00	24.38	26.12	3,146.10	1,096.95	537.79	1,604,696.14885	2,347,115.04299	39.47085	-107.81298	
3,600.00	24.38	26.12	3,328.27	1,171.07	574.13	1,604,769.31512	2,347,153.25578	39.47105	-107.81285	
3,764.38	24.38	26.12	3,478.00	1,231.99	604.00	1,604,829.45053	2,347,184.66290	39.47122	-107.81274	
Top of "G" Sand										
3,800.00	24.38	26.12	3,510.44	1,245.19	610.47	1,604,842.48140	2,347,191.46856	39.47125	-107.81272	
3,874.17	24.38	26.12	3,578.00	1,272.68	623.94	1,604,869.61428	2,347,205.63934	39.47133	-107.81267	
Base of "G" Sand										
4,000.00	24.38	26.12	3,692.61	1,319.31	646.81	1,604,915.64768	2,347,229.68135	39.47146	-107.81259	
4,200.00	24.38	26.12	3,874.78	1,393.43	683.14	1,604,988.81395	2,347,267.89414	39.47166	-107.81246	
4,400.00	24.38	26.12	4,056.95	1,467.55	719.48	1,605,061.98023	2,347,306.10693	39.47186	-107.81233	
4,600.00	24.38	26.12	4,239.12	1,541.67	755.82	1,605,135.14651	2,347,344.31972	39.47207	-107.81220	
4,800.00	24.38	26.12	4,421.29	1,615.79	792.16	1,605,208.31279	2,347,382.53251	39.47227	-107.81208	
5,000.00	24.38	26.12	4,603.46	1,689.91	828.50	1,605,281.47906	2,347,420.74530	39.47247	-107.81195	
5,200.00	24.38	26.12	4,785.63	1,764.03	864.83	1,605,354.64534	2,347,458.95809	39.47268	-107.81182	
5,400.00	24.38	26.12	4,967.80	1,838.15	901.17	1,605,427.81161	2,347,497.17088	39.47288	-107.81169	
5,600.00	24.38	26.12	5,149.97	1,912.27	937.51	1,605,500.97789	2,347,535.38367	39.47308	-107.81156	
5,705.93	24.38	26.12	5,246.46	1,951.52	956.75	1,605,539.72873	2,347,555.62220	39.47319	-107.81149	
Start Drop -1.50										
5,800.00	22.97	26.12	5,332.61	1,985.44	973.38	1,605,573.20547	2,347,573.10620	39.47329	-107.81143	
6,000.00	19.97	26.12	5,518.72	2,051.14	1,005.60	1,605,638.06955	2,347,606.98297	39.47347	-107.81132	
6,200.00	16.97	26.12	5,708.40	2,108.02	1,033.48	1,605,694.21164	2,347,636.30448	39.47362	-107.81122	
6,400.00	13.97	26.12	5,901.14	2,155.90	1,056.95	1,605,741.47786	2,347,660.99036	39.47375	-107.81114	
6,509.74	12.32	26.12	6,008.00	2,178.30	1,067.94	1,605,763.59429	2,347,672.54119	39.47381	-107.81110	
Mesaverde										
6,600.00	10.97	26.12	6,096.40	2,194.66	1,075.95	1,605,779.73865	2,347,680.97295	39.47386	-107.81107	
6,800.00	7.97	26.12	6,293.65	2,224.19	1,090.43	1,605,808.88915	2,347,696.19748	39.47394	-107.81102	
7,000.00	4.97	26.12	6,492.36	2,244.41	1,100.35	1,605,828.84945	2,347,706.62221	39.47400	-107.81098	
7,200.00	1.97	26.12	6,691.97	2,255.26	1,105.67	1,605,839.56486	2,347,712.21858	39.47403	-107.81096	

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 543-6 - Slot A09
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 34-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 543-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 10Jul14 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
7,331.06	0.00	0.00	6,823.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>Vertical</b>									
7,400.00	0.00	0.00	6,891.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
7,600.00	0.00	0.00	7,091.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
7,631.06	0.00	0.00	7,123.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>Top Gas - Approx. Top Gas</b>									
7,800.00	0.00	0.00	7,291.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
8,000.00	0.00	0.00	7,491.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
8,200.00	0.00	0.00	7,691.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
8,400.00	0.00	0.00	7,891.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
8,600.00	0.00	0.00	8,091.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
8,800.00	0.00	0.00	8,291.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
9,000.00	0.00	0.00	8,491.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
9,200.00	0.00	0.00	8,691.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
9,400.00	0.00	0.00	8,891.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
9,401.06	0.00	0.00	8,893.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>Cameo Coals</b>									
9,600.00	0.00	0.00	9,091.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
9,800.00	0.00	0.00	9,291.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
10,000.00	0.00	0.00	9,491.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
10,076.06	0.00	0.00	9,568.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>Coal D</b>									
10,200.00	0.00	0.00	9,691.94	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
10,231.06	0.00	0.00	9,723.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>Rollins SS</b>									
10,381.06	0.00	0.00	9,873.00	2,257.28	1,106.66	1,605,841.55746	2,347,713.25926	39.47403	-107.81096
<b>TD at 10381.06 - TD</b>									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (50' Radius) RL - plan misses target center by 0.08usft at 7631.06usft MD (7123.00 TVD, 2257.28 N, 1106.66 E) - Circle (radius 50.00)	0.00	0.00	7,123.00	2,257.21	1,106.69	1,605,841.48581	2,347,713.28621	39.47403	-107.81096

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,153.63	1,100.00	9 5/8"	9.625	13.500	



<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 543-6 - Slot A09
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Project:</b>	RU 06-07S-093W	<b>MD Reference:</b>	KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)
<b>Site:</b>	RU 34-6 Pad	<b>North Reference:</b>	True
<b>Well:</b>	RU 543-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 10Jul14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,764.38	3,478.00	Top of "G" Sand				
3,874.17	3,578.00	Base of "G" Sand				
6,509.74	6,008.00	Mesaverde				
7,631.06	7,123.00	Approx. Top Gas				
9,401.06	8,893.00	Cameo Coals				
10,076.06	9,568.00	Coal D				
10,231.06	9,723.00	Rollins SS				
10,381.06	9,873.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.00	0.00	Start Build 3.75	
770.05	750.62	122.30	59.96	Hold 24.38° Inc, 26.12° Az	
5,705.93	5,246.46	1,951.52	956.75	Start Drop -1.50	
7,331.06	6,823.00	2,257.28	1,106.66	Vertical	
7,631.06	7,123.00	2,257.28	1,106.66	Top Gas	
10,381.06	9,873.00	2,257.28	1,106.66	TD at 10381.06	