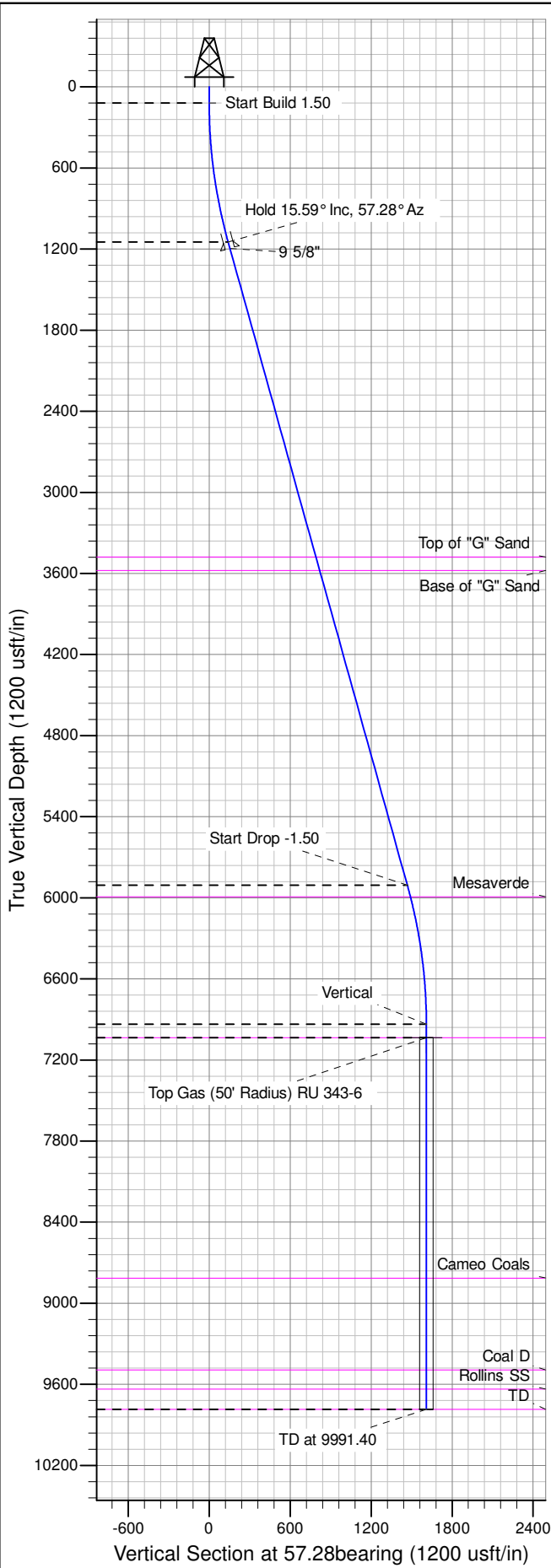
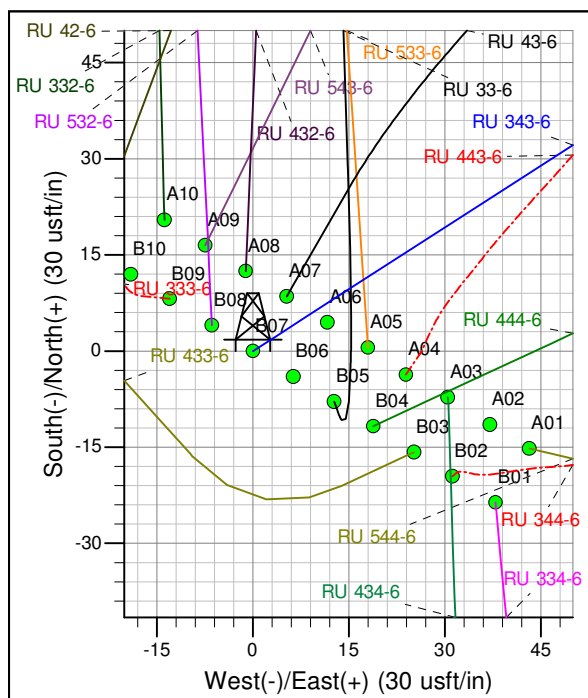
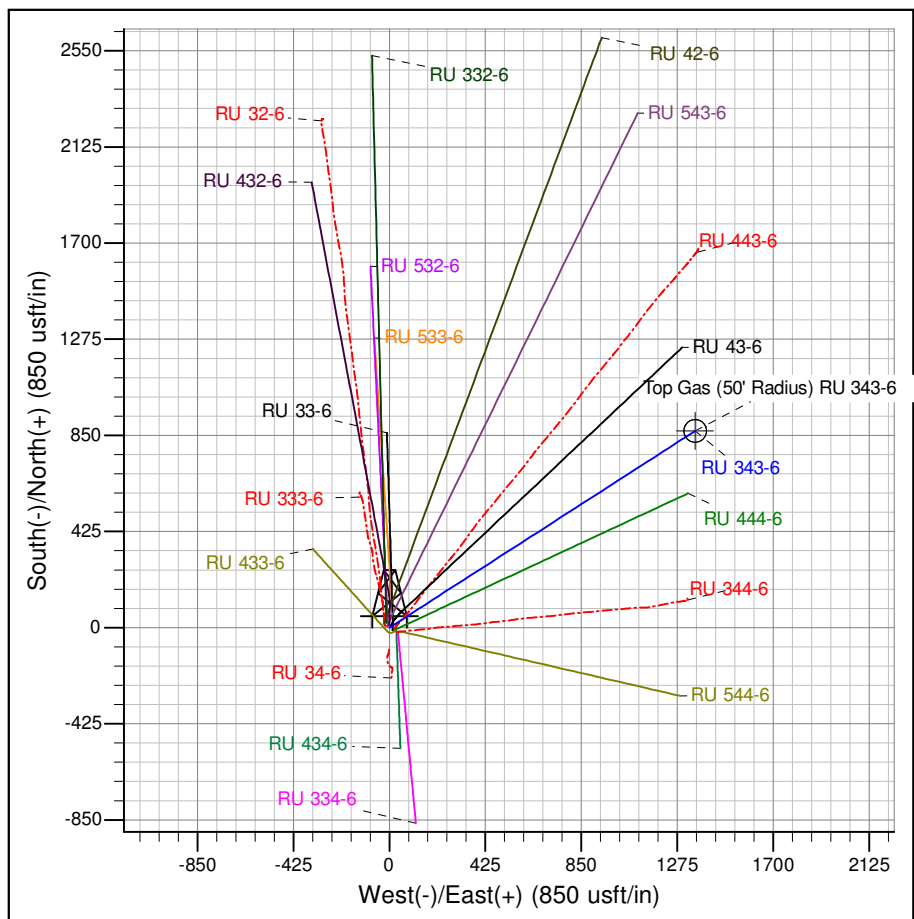




Well Name: RU 343-6  
Surface Location: RU 34-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7537.00  
+N/-S 0.00 +E/-W 0.00 Northing 1603596.60000 Easting 2346556.50000 Latitude 39.46779 Longitude -107.81485 Slot B07  
KELLY BUSHING @ 7563.00usft (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 1.50	
1146.56	1159.34	15.59	57.28	75.96	118.23	140.53	140.53	Hold 15.59° Inc, 57.28° Az	
5907.44	6102.06	15.59	57.28	793.97	1235.84	1468.91	1468.91	Start Drop -1.50	
6934.00	7141.40	0.00	0.00	869.92	1354.08	1609.44	1609.44	Vertical	
7034.00	7241.40	0.00	0.00	869.92	1354.08	1609.44	1609.44	Top Gas	
9784.00	9991.40	0.00	0.00	869.92	1354.08	1609.44	1609.44	TD at 9991.40	



Azimuths to True North  
Magnetic North: 10.59°

Magnetic Field  
Strength: 52537.3snT  
Dip Angle: 65.83°  
Date: 10/21/2008  
Model: IGRF2005-10

Project: RU 06-07S-093W  
Site: RU 34-6 Pad  
Well: RU 343-6  
Plan #5 10Jul14 mab



## **PICEANCE VLY NAD 83**

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

**RU 34-6 Pad**

**RU 343-6 - Slot B07**

**Wellbore #1**

**Plan: Plan #5 10Jul14 mab**

## **Standard Planning Report - Geographic**

**13 August, 2014**



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 343-6 - Slot B07
<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 343-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 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 °

<b>Well</b>	RU 343-6 - Slot B07			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,603,596.60000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,346,556.50000 usft
<b>Position Uncertainty</b>	0.00 usft		<b>Wellhead Elevation:</b>	
			<b>Ground Level:</b>	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 #5 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	57.28

<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	
1,159.34	15.59	57.28	1,146.56	75.96	118.23	1.50	1.50	0.00	57.28	
6,102.06	15.59	57.28	5,907.44	793.97	1,235.84	0.00	0.00	0.00	0.00	
7,141.40	0.00	0.00	6,934.00	869.92	1,354.08	1.50	-1.50	0.00	180.00	
7,241.40	0.00	0.00	7,034.00	869.92	1,354.08	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,991.40	0.00	0.00	9,784.00	869.92	1,354.08	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 343-6 - Slot B07
<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 343-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 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	
0.00	0.00	0.00	0.00	0.00	0.00	1,603,596.60000	2,346,556.50000	39.46779	-107.81485	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,596.60000	2,346,556.50000	39.46779	-107.81485	
Start Build 1.50										
200.00	1.20	57.28	199.99	0.45	0.70	1,603,597.03468	2,346,557.21608	39.46779	-107.81485	
400.00	4.20	57.28	399.75	5.54	8.63	1,603,601.92265	2,346,565.26844	39.46780	-107.81482	
600.00	7.20	57.28	598.74	16.28	25.34	1,603,612.22849	2,346,582.24612	39.46783	-107.81477	
800.00	10.20	57.28	796.41	32.63	50.79	1,603,627.92397	2,346,608.10258	39.46788	-107.81468	
1,000.00	13.20	57.28	992.24	54.55	84.91	1,603,648.96605	2,346,642.76696	39.46794	-107.81455	
1,159.34	15.59	57.28	1,146.56	75.96	118.23	1,603,669.51914	2,346,676.62578	39.46800	-107.81444	
Hold 15.59° Inc, 57.28° Az										
1,200.00	15.59	57.28	1,185.73	81.87	127.43	1,603,675.18903	2,346,685.96625	39.46801	-107.81440	
1,209.34	15.59	57.28	1,194.72	83.22	129.54	1,603,676.49150	2,346,688.11192	39.46802	-107.81440	
9 5/8"										
1,400.00	15.59	57.28	1,378.37	110.92	172.65	1,603,703.07926	2,346,731.91216	39.46809	-107.81424	
1,600.00	15.59	57.28	1,571.01	139.97	217.87	1,603,730.96949	2,346,777.85806	39.46817	-107.81408	
1,800.00	15.59	57.28	1,763.65	169.02	263.09	1,603,758.85973	2,346,823.80396	39.46825	-107.81392	
2,000.00	15.59	57.28	1,956.29	198.08	308.32	1,603,786.74995	2,346,869.74986	39.46833	-107.81376	
2,200.00	15.59	57.28	2,148.94	227.13	353.54	1,603,814.64018	2,346,915.69577	39.46841	-107.81360	
2,400.00	15.59	57.28	2,341.58	256.18	398.76	1,603,842.53042	2,346,961.64168	39.46849	-107.81344	
2,600.00	15.59	57.28	2,534.22	285.24	443.98	1,603,870.42065	2,347,007.58758	39.46857	-107.81328	
2,800.00	15.59	57.28	2,726.86	314.29	489.21	1,603,898.31088	2,347,053.53349	39.46865	-107.81312	
3,000.00	15.59	57.28	2,919.50	343.34	534.43	1,603,926.20112	2,347,099.47939	39.46873	-107.81296	
3,200.00	15.59	57.28	3,112.14	372.40	579.65	1,603,954.09135	2,347,145.42530	39.46881	-107.81280	
3,400.00	15.59	57.28	3,304.79	401.45	624.87	1,603,981.98158	2,347,191.37120	39.46889	-107.81264	
3,579.83	15.59	57.28	3,478.00	427.57	665.54	1,604,007.05910	2,347,232.68348	39.46896	-107.81250	
Top of "G" Sand										
3,600.00	15.59	57.28	3,497.43	430.50	670.10	1,604,009.87182	2,347,237.31710	39.46897	-107.81248	
3,683.65	15.59	57.28	3,578.00	442.65	689.01	1,604,021.53687	2,347,256.53392	39.46900	-107.81241	
Base of "G" Sand										
3,800.00	15.59	57.28	3,690.07	459.56	715.32	1,604,037.76205	2,347,283.26301	39.46905	-107.81232	
4,000.00	15.59	57.28	3,882.71	488.61	760.54	1,604,065.65229	2,347,329.20891	39.46913	-107.81216	
4,200.00	15.59	57.28	4,075.35	517.66	805.76	1,604,093.54252	2,347,375.15482	39.46921	-107.81200	
4,400.00	15.59	57.28	4,268.00	546.71	850.99	1,604,121.43275	2,347,421.10073	39.46929	-107.81184	
4,600.00	15.59	57.28	4,460.64	575.77	896.21	1,604,149.32299	2,347,467.04663	39.46937	-107.81168	
4,800.00	15.59	57.28	4,653.28	604.82	941.43	1,604,177.21322	2,347,512.99254	39.46945	-107.81152	
5,000.00	15.59	57.28	4,845.92	633.87	986.65	1,604,205.10344	2,347,558.93844	39.46953	-107.81136	
5,200.00	15.59	57.28	5,038.56	662.93	1,031.87	1,604,232.99368	2,347,604.88434	39.46961	-107.81120	
5,400.00	15.59	57.28	5,231.20	691.98	1,077.10	1,604,260.88391	2,347,650.83025	39.46969	-107.81104	
5,600.00	15.59	57.28	5,423.85	721.03	1,122.32	1,604,288.77414	2,347,696.77615	39.46977	-107.81088	
5,800.00	15.59	57.28	5,616.49	750.09	1,167.54	1,604,316.66438	2,347,742.72206	39.46985	-107.81072	
6,000.00	15.59	57.28	5,809.13	779.14	1,212.76	1,604,344.55461	2,347,788.66796	39.46993	-107.81056	
6,102.06	15.59	57.28	5,907.44	793.97	1,235.84	1,604,358.78728	2,347,812.11462	39.46997	-107.81048	
Start Drop -1.50										
6,190.62	14.26	57.28	5,993.00	806.29	1,255.03	1,604,370.62206	2,347,831.61105	39.47000	-107.81041	
Mesaverde										
6,200.00	14.12	57.28	6,002.10	807.54	1,256.97	1,604,371.81586	2,347,833.57769	39.47001	-107.81040	
6,400.00	11.12	57.28	6,197.24	831.16	1,293.73	1,604,394.48855	2,347,870.92830	39.47007	-107.81027	
6,600.00	8.12	57.28	6,394.41	849.22	1,321.85	1,604,411.83078	2,347,899.49761	39.47012	-107.81017	
6,800.00	5.12	57.28	6,593.05	861.68	1,341.25	1,604,423.79503	2,347,919.20731	39.47015	-107.81010	
7,000.00	2.12	57.28	6,792.63	868.51	1,351.87	1,604,430.34849	2,347,930.00338	39.47017	-107.81007	
7,141.40	0.00	0.00	6,934.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040	39.47018	-107.81006	
Vertical										



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 343-6 - Slot B07
<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 343-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 10Jul14 mab		

Planned Survey										
Measured										
Depth	Inclination	Azimuth	Vertical			Map	Map			
(usft)	(°)	(bearing)	Depth	+N/-S	+E/-W	Northing	Easting		Latitude	Longitude
			(usft)	(usft)	(usft)	(usft)	(usft)			
7,200.00	0.00	0.00	6,992.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
7,241.40	0.00	0.00	7,034.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
Top Gas - Approx. Top Gas										
7,400.00	0.00	0.00	7,192.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
7,600.00	0.00	0.00	7,392.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
7,800.00	0.00	0.00	7,592.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
8,000.00	0.00	0.00	7,792.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
8,200.00	0.00	0.00	7,992.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
8,400.00	0.00	0.00	8,192.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
8,600.00	0.00	0.00	8,392.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
8,800.00	0.00	0.00	8,592.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,000.00	0.00	0.00	8,792.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,021.40	0.00	0.00	8,814.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
Cameo Coals										
9,200.00	0.00	0.00	8,992.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,400.00	0.00	0.00	9,192.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,600.00	0.00	0.00	9,392.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,700.40	0.00	0.00	9,493.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
Coal D										
9,800.00	0.00	0.00	9,592.60	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
9,841.40	0.00	0.00	9,634.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
Rollins SS										
9,991.40	0.00	0.00	9,784.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040		39.47018	-107.81006
TD at 9991.40 - 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) RL	0.00	0.00	7,034.00	869.92	1,354.08	1,604,431.70642	2,347,932.24040	39.47018	-107.81006	
- plan hits target center										
- Circle (radius 50.00)										

Casing Points						Casing Diameter (in)	Hole Diameter (in)
Measured Depth (usft)	Vertical Depth (usft)	Name					
1,209.34	1,194.72	9 5/8"				9.625	13.500



<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 343-6 - Slot B07
<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 343-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #5 10Jul14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,579.83	3,478.00	Top of "G" Sand				
3,683.65	3,578.00	Base of "G" Sand				
6,190.62	5,993.00	Mesaverde				
7,241.40	7,034.00	Approx. Top Gas				
9,021.40	8,814.00	Cameo Coals				
9,700.40	9,493.00	Coal D				
9,841.40	9,634.00	Rollins SS				
9,991.40	9,784.00	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 1.50	
1,159.34	1,146.56	75.96	118.23	Hold 15.59° Inc, 57.28° Az	
6,102.06	5,907.44	793.97	1,235.84	Start Drop -1.50	
7,141.40	6,934.00	869.92	1,354.08	Vertical	
7,241.40	7,034.00	869.92	1,354.08	Top Gas	
9,991.40	9,784.00	869.92	1,354.08	TD at 9991.40	