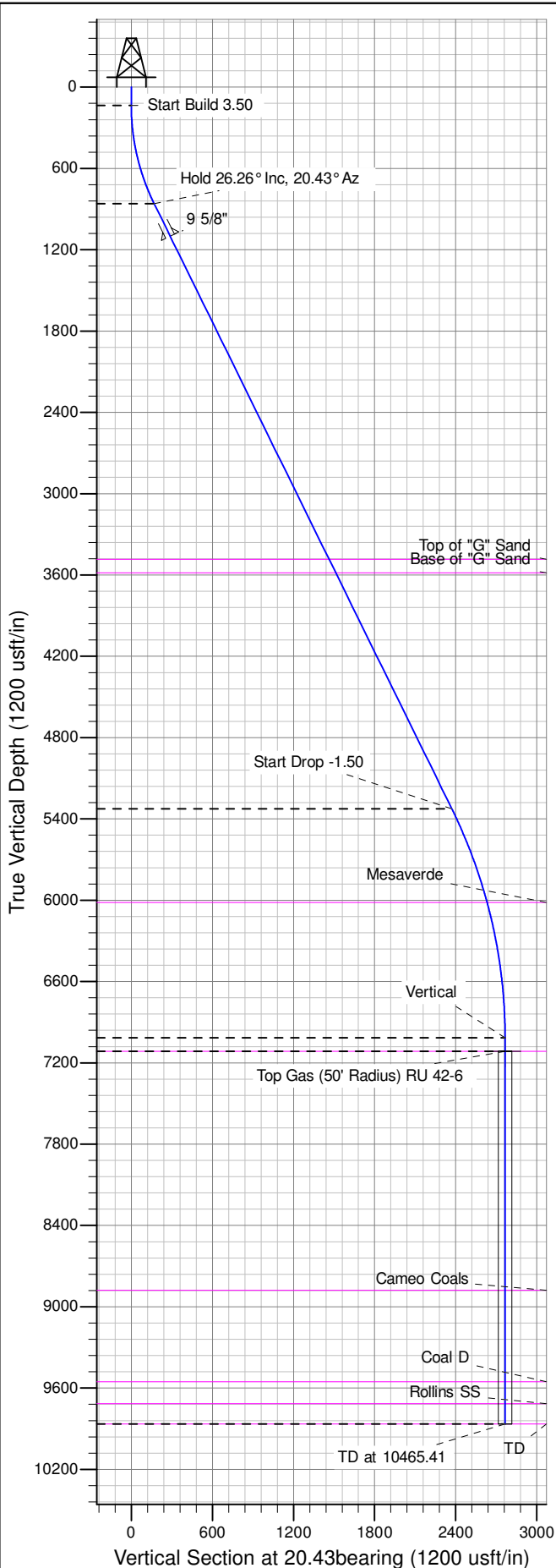
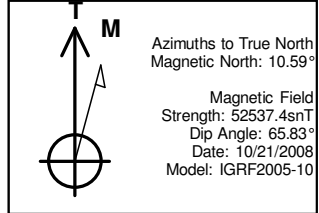
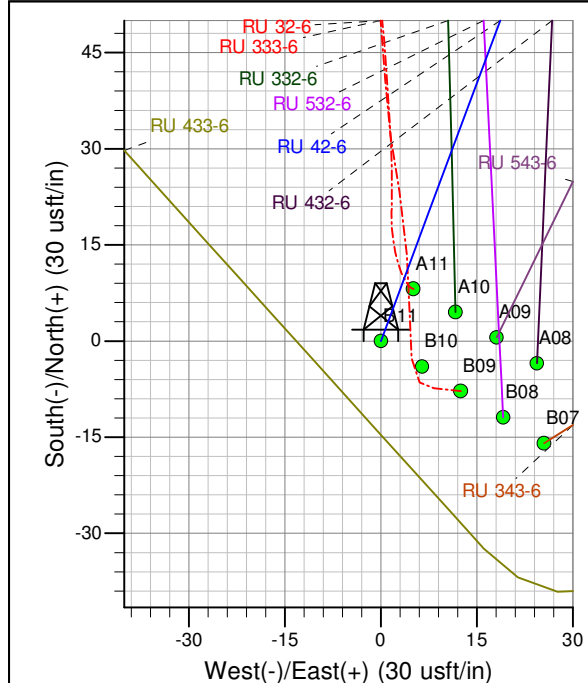
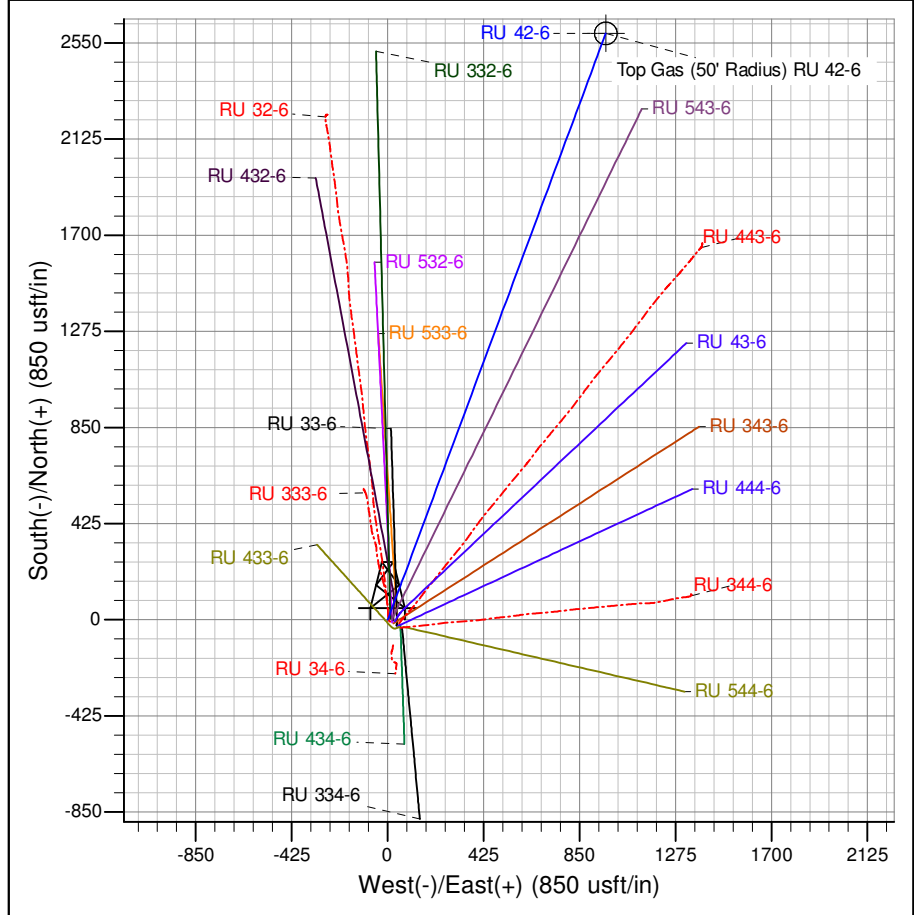




Well Name: RU 42-6  
Surface Location: RU 34-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7537.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.00 0.00 1603613.20000 2346531.40000 39.46783 -107.81494 B11  
KELLY BUSHING @ 7563.00usft (Nabors 574 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
135.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.50	
859.20	885.19	26.26	20.43	158.28	58.96	168.90	168.90	Hold 26.26° Inc, 20.43° Az	
5325.19	5864.98	26.26	20.43	2222.69	828.03	2371.92	2371.92	Start Drop -1.50	
7015.00	7615.41	0.00	0.00	2592.01	965.61	2766.03	2766.03	Vertical	
7115.00	7715.41	0.00	0.00	2592.01	965.61	2766.03	2766.03	Top Gas	
9865.00	10465.41	0.00	0.00	2592.01	965.61	2766.03	2766.03	TD at 10465.41	



Project: RU 06-07S-093W  
Site: RU 34-6 Pad  
Well: RU 42-6  
Plan #4 10Jul14 mab



## **PICEANCE VLY NAD 83**

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

**RU 34-6 Pad**

**RU 42-6 - Slot B11**

**Wellbore #1**

**Plan: Plan #4 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 42-6 - Slot B11
<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 42-6	<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 °

<b>Well</b>	RU 42-6 - Slot B11			
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	1,603,613.20000 usft
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	2,346,531.40000 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 #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	20.43

<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	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	0.00	0.00	135.00	0.00	0.00	0.00	0.00	0.00	0.00	
885.19	26.26	20.43	859.20	158.28	58.96	3.50	3.50	0.00	20.43	
5,864.98	26.26	20.43	5,325.19	2,222.69	828.03	0.00	0.00	0.00	0.00	
7,615.41	0.00	0.00	7,015.00	2,592.01	965.61	1.50	-1.50	0.00	180.00	
7,715.41	0.00	0.00	7,115.00	2,592.01	965.61	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,465.41	0.00	0.00	9,865.00	2,592.01	965.61	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 42-6 - Slot B11
<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 42-6	<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	
0.00	0.00	0.00	0.00	0.00	0.00	1,603,613.20000	2,346,531.40000	39.46783	-107.81495	
135.00	0.00	0.00	135.00	0.00	0.00	1,603,613.20000	2,346,531.40000	39.46783	-107.81495	
Start Build 3.50										
200.00	2.28	20.43	199.98	1.21	0.45	1,603,614.39719	2,346,531.88107	39.46784	-107.81494	
400.00	9.28	20.43	398.84	20.06	7.47	1,603,633.05799	2,346,539.37965	39.46789	-107.81492	
600.00	16.28	20.43	593.77	61.47	22.90	1,603,674.06616	2,346,555.85821	39.46800	-107.81486	
800.00	23.28	20.43	781.86	124.84	46.51	1,603,736.81037	2,346,581.07110	39.46818	-107.81478	
885.19	26.26	20.43	859.20	158.28	58.96	1,603,769.91734	2,346,594.37467	39.46827	-107.81474	
Hold 26.26° Inc, 20.43° Az										
1,000.00	26.26	20.43	962.17	205.87	76.70	1,603,817.04493	2,346,613.31224	39.46840	-107.81467	
1,153.69	26.26	20.43	1,100.00	269.59	100.43	1,603,880.12862	2,346,638.66154	39.46857	-107.81459	
9 5/8"										
1,200.00	26.26	20.43	1,141.54	288.79	107.58	1,603,899.13920	2,346,646.30068	39.46863	-107.81456	
1,400.00	26.26	20.43	1,320.90	371.70	138.47	1,603,981.23348	2,346,679.28912	39.46885	-107.81445	
1,600.00	26.26	20.43	1,500.26	454.61	169.36	1,604,063.32776	2,346,712.27756	39.46908	-107.81435	
1,800.00	26.26	20.43	1,679.63	537.52	200.24	1,604,145.42204	2,346,745.26600	39.46931	-107.81424	
2,000.00	26.26	20.43	1,858.99	620.43	231.13	1,604,227.51630	2,346,778.25444	39.46954	-107.81413	
2,200.00	26.26	20.43	2,038.36	703.35	262.02	1,604,309.61058	2,346,811.24287	39.46976	-107.81402	
2,400.00	26.26	20.43	2,217.72	786.26	292.91	1,604,391.70486	2,346,844.23131	39.46999	-107.81391	
2,600.00	26.26	20.43	2,397.09	869.17	323.79	1,604,473.79913	2,346,877.21974	39.47022	-107.81380	
2,800.00	26.26	20.43	2,576.45	952.08	354.68	1,604,555.89341	2,346,910.20818	39.47045	-107.81369	
3,000.00	26.26	20.43	2,755.82	1,034.99	385.57	1,604,637.98768	2,346,943.19662	39.47067	-107.81358	
3,200.00	26.26	20.43	2,935.18	1,117.90	416.46	1,604,720.08195	2,346,976.18506	39.47090	-107.81347	
3,400.00	26.26	20.43	3,114.54	1,200.82	447.34	1,604,802.17623	2,347,009.17350	39.47113	-107.81336	
3,600.00	26.26	20.43	3,293.91	1,283.73	478.23	1,604,884.27051	2,347,042.16194	39.47136	-107.81325	
3,800.00	26.26	20.43	3,473.27	1,366.64	509.12	1,604,966.36478	2,347,075.15038	39.47158	-107.81314	
3,810.85	26.26	20.43	3,483.00	1,371.14	510.79	1,604,970.81658	2,347,076.93927	39.47160	-107.81314	
Top of "G" Sand										
3,922.35	26.26	20.43	3,583.00	1,417.36	528.01	1,605,016.58610	2,347,095.33112	39.47172	-107.81307	
Base of "G" Sand										
4,000.00	26.26	20.43	3,652.64	1,449.55	540.01	1,605,048.45905	2,347,108.13882	39.47181	-107.81303	
4,200.00	26.26	20.43	3,832.00	1,532.46	570.89	1,605,130.55333	2,347,141.12726	39.47204	-107.81292	
4,400.00	26.26	20.43	4,011.37	1,615.37	601.78	1,605,212.64761	2,347,174.11570	39.47227	-107.81281	
4,600.00	26.26	20.43	4,190.73	1,698.29	632.67	1,605,294.74188	2,347,207.10413	39.47250	-107.81270	
4,800.00	26.26	20.43	4,370.10	1,781.20	663.56	1,605,376.83615	2,347,240.09257	39.47272	-107.81259	
5,000.00	26.26	20.43	4,549.46	1,864.11	694.44	1,605,458.93043	2,347,273.08101	39.47295	-107.81249	
5,200.00	26.26	20.43	4,728.82	1,947.02	725.33	1,605,541.02470	2,347,306.06944	39.47318	-107.81238	
5,400.00	26.26	20.43	4,908.19	2,029.93	756.22	1,605,623.11898	2,347,339.05788	39.47341	-107.81227	
5,600.00	26.26	20.43	5,087.55	2,112.85	787.10	1,605,705.21326	2,347,372.04632	39.47363	-107.81216	
5,800.00	26.26	20.43	5,266.92	2,195.76	817.99	1,605,787.30752	2,347,405.03476	39.47386	-107.81205	
5,864.98	26.26	20.43	5,325.19	2,222.69	828.03	1,605,813.97880	2,347,415.75224	39.47393	-107.81201	
Start Drop -1.50										
6,000.00	24.23	20.43	5,447.31	2,276.65	848.13	1,605,867.40466	2,347,437.22068	39.47408	-107.81194	
6,200.00	21.23	20.43	5,631.76	2,349.06	875.10	1,605,939.10206	2,347,466.03128	39.47428	-107.81185	
6,400.00	18.23	20.43	5,819.99	2,412.33	898.67	1,606,001.74461	2,347,491.20331	39.47446	-107.81176	
6,600.00	15.23	20.43	6,011.50	2,466.28	918.77	1,606,055.16061	2,347,512.66779	39.47460	-107.81169	
6,603.62	15.18	20.43	6,015.00	2,467.17	919.10	1,606,056.04201	2,347,513.02196	39.47461	-107.81169	
Mesaverde										
6,800.00	12.23	20.43	6,205.77	2,510.76	935.34	1,606,099.20366	2,347,530.36587	39.47473	-107.81163	
7,000.00	9.23	20.43	6,402.25	2,545.65	948.34	1,606,133.75304	2,347,544.24906	39.47482	-107.81159	
7,200.00	6.23	20.43	6,600.41	2,570.86	957.73	1,606,158.71404	2,347,554.27929	39.47489	-107.81155	
7,400.00	3.23	20.43	6,799.70	2,586.32	963.49	1,606,174.01825	2,347,560.42907	39.47493	-107.81153	

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 42-6 - Slot B11
<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 42-6	<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	
7,600.00	0.23	20.43	6,999.59	2,591.98	965.60	1,606,179.62374	2,347,562.68156	39.47495	-107.81152	
7,615.41	0.00	0.00	7,015.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>Vertical</b>										
7,715.41	0.00	0.00	7,115.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>Top Gas - Approx. Top Gas</b>										
7,800.00	0.00	0.00	7,199.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
8,000.00	0.00	0.00	7,399.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
8,200.00	0.00	0.00	7,599.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
8,400.00	0.00	0.00	7,799.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
8,600.00	0.00	0.00	7,999.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
8,800.00	0.00	0.00	8,199.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
9,000.00	0.00	0.00	8,399.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
9,200.00	0.00	0.00	8,599.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
9,400.00	0.00	0.00	8,799.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
9,479.41	0.00	0.00	8,879.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>Cameo Coals</b>										
9,600.00	0.00	0.00	8,999.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
9,800.00	0.00	0.00	9,199.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
10,000.00	0.00	0.00	9,399.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
10,153.41	0.00	0.00	9,553.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>Coal D</b>										
10,200.00	0.00	0.00	9,599.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
10,315.41	0.00	0.00	9,715.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>Rollins SS</b>										
10,400.00	0.00	0.00	9,799.59	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
10,465.41	0.00	0.00	9,865.00	2,592.01	965.61	1,606,179.65259	2,347,562.69315	39.47495	-107.81152	
<b>TD at 10465.41 - 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) RL	0.00	0.00	7,115.00	2,592.01	965.71	1,606,179.65260	2,347,562.79314	39.47495	-107.81152	
- plan misses target center by 0.10usft at 7715.41usft MD (7115.00 TVD, 2592.01 N, 965.61 E)										
- Circle (radius 50.00)										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)		
1,153.69	1,100.00	9 5/8"	9.625	13.500		



<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 42-6 - Slot B11
<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 42-6	<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)	
3,810.85	3,483.00	Top of "G" Sand				
3,922.35	3,583.00	Base of "G" Sand				
6,603.62	6,015.00	Mesaverde				
7,715.41	7,115.00	Approx. Top Gas				
9,479.41	8,879.00	Cameo Coals				
10,153.41	9,553.00	Coal D				
10,315.41	9,715.00	Rollins SS				
10,465.41	9,865.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
135.00	135.00	0.00	0.00	Start Build 3.50	
885.19	859.20	158.28	58.96	Hold 26.26° Inc, 20.43° Az	
5,864.98	5,325.19	2,222.69	828.03	Start Drop -1.50	
7,615.41	7,015.00	2,592.01	965.61	Vertical	
7,715.41	7,115.00	2,592.01	965.61	Top Gas	
10,465.41	9,865.00	2,592.01	965.61	TD at 10465.41	