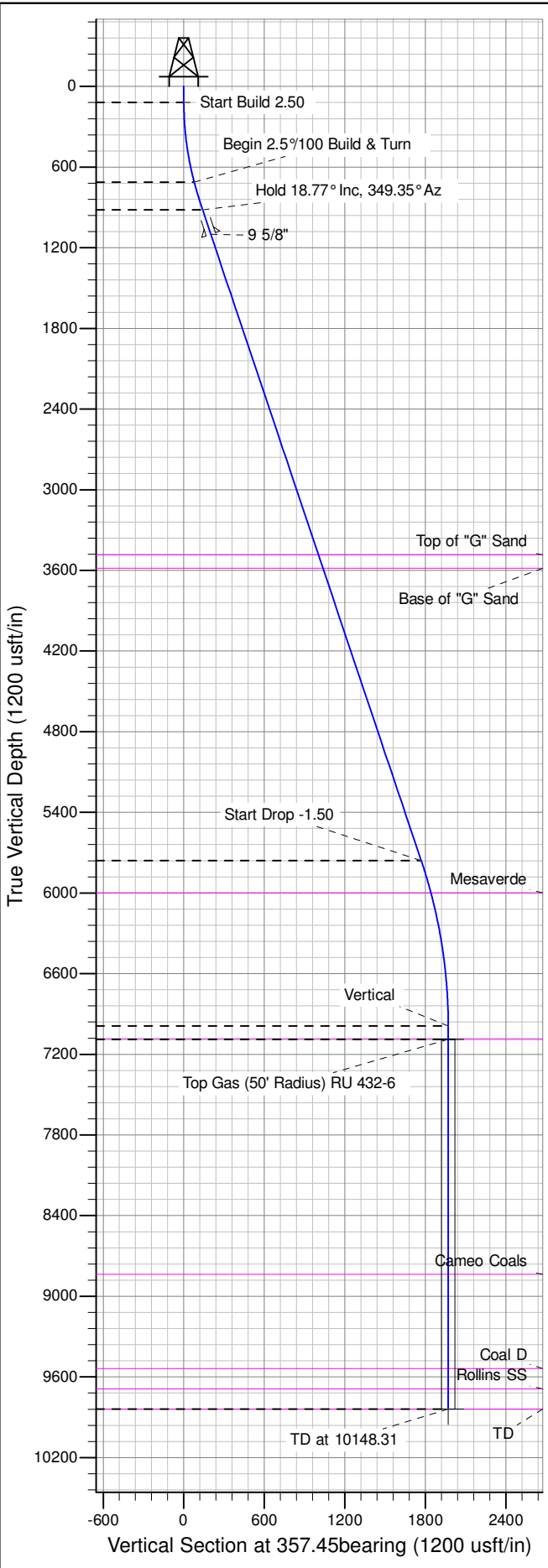
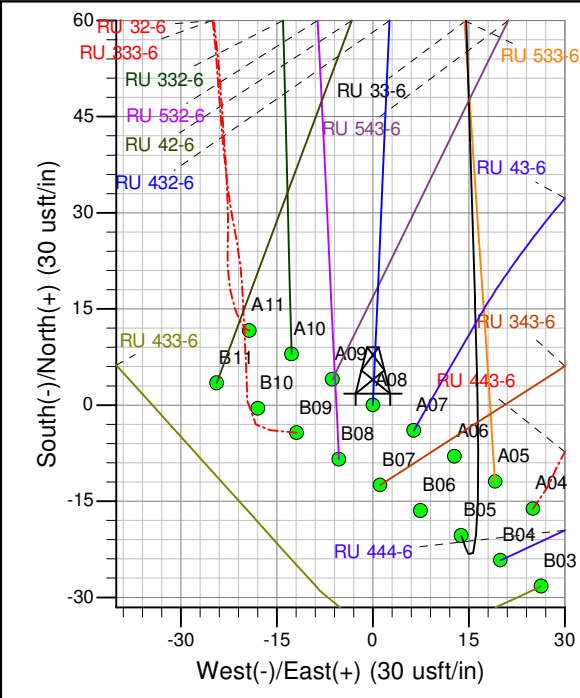
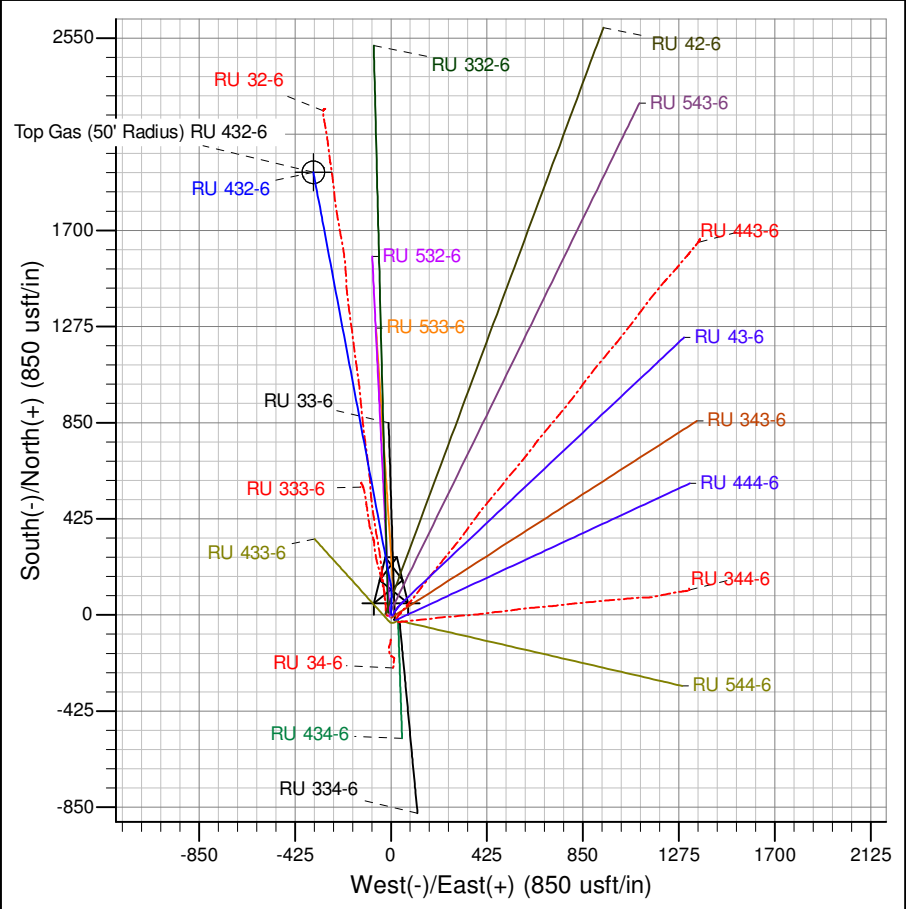




Well Name: RU 432-6  
Surface Location: RU 34-6 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 7537.00  
+N/-S      +E/-W      Northing      Easting      Latitude      Longitude      Slot  
0.00      0.00      1603609.10000      2346555.70000      39.46782      -107.81486      A08  
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 2.50	
713.17	720.00	15.00	2.50	78.02	3.41	77.79	78.09	Begin 2.5°/100 Build & Turn	
917.90	933.91	18.77	349.35	139.55	-1.75	139.49	140.01	Hold 18.77° Inc, 349.35° Az	
5758.69	6046.72	18.77	349.35	1756.68	-305.87	1768.55	1785.49	Start Drop -1.50	
6988.00	7298.31	0.00	0.00	1956.40	-343.42	1969.75	1988.71	Vertical	
7088.00	7398.31	0.00	0.00	1956.40	-343.42	1969.75	1988.71	Top Gas	
9838.00	10148.31	0.00	0.00	1956.40	-343.42	1969.75	1988.71	TD at 10148.31	



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 432-6  
Plan #4 09Jul14 mab



## **PICEANCE VLY NAD 83**

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

**RU 34-6 Pad**

**RU 432-6 - Slot A08**

**Wellbore #1**

**Plan: Plan #4 09Jul14 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 432-6 - Slot A08
<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 432-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 09Jul14 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 432-6 - Slot A08				
Well Position	+N/-S	0.00 usft	Northing:	1,603,609.10000 usft	Latitude: 39.46782
	+E/-W	0.00 usft	Easting:	2,346,555.70000 usft	Longitude: -107.81486
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 09Jul14 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	357.45

<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	
720.00	15.00	2.50	713.17	78.02	3.41	2.50	2.50	0.00	2.50	
933.91	18.77	349.35	917.90	139.55	-1.75	2.50	1.76	-6.15	-51.78	
6,046.72	18.77	349.35	5,758.69	1,756.68	-305.87	0.00	0.00	0.00	0.00	
7,298.31	0.00	0.00	6,988.00	1,956.40	-343.42	1.50	-1.50	0.00	180.00	
10,148.31	0.00	0.00	9,838.00	1,956.40	-343.42	0.00	0.00	0.00	0.00	TD / PBHL RU 432-6



**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 432-6 - Slot A08
<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 432-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 09Jul14 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	1,603,609.10000	2,346,555.70000	39.46782	-107.81486	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,609.10000	2,346,555.70000	39.46782	-107.81486	
Start Build 2.50										
200.00	2.00	2.50	199.98	1.39	0.06	1,603,610.49273	2,346,555.79641	39.46783	-107.81486	
400.00	7.00	2.50	399.30	17.07	0.75	1,603,626.14143	2,346,556.87968	39.46787	-107.81486	
600.00	12.00	2.50	596.50	50.03	2.18	1,603,659.06026	2,346,559.15847	39.46796	-107.81485	
720.00	15.00	2.50	713.17	78.02	3.41	1,603,687.00242	2,346,561.09276	39.46804	-107.81485	
Begin 2.5°/100 Build & Turn										
800.00	16.31	356.90	790.20	99.58	3.25	1,603,708.56150	2,346,561.48579	39.46810	-107.81485	
933.91	18.77	349.35	917.90	139.55	-1.75	1,603,748.64142	2,346,557.50414	39.46821	-107.81487	
Hold 18.77° Inc, 349.35° Az										
1,000.00	18.77	349.35	980.47	160.45	-5.68	1,603,769.63613	2,346,554.10728	39.46826	-107.81488	
1,126.25	18.77	349.35	1,100.00	200.38	-13.19	1,603,809.74421	2,346,547.61796	39.46837	-107.81491	
9 5/8"										
1,200.00	18.77	349.35	1,169.83	223.71	-17.58	1,603,833.17380	2,346,543.82715	39.46844	-107.81492	
1,400.00	18.77	349.35	1,359.19	286.97	-29.47	1,603,896.71148	2,346,533.54703	39.46861	-107.81496	
1,600.00	18.77	349.35	1,548.54	350.22	-41.37	1,603,960.24916	2,346,523.26690	39.46878	-107.81501	
1,800.00	18.77	349.35	1,737.90	413.48	-53.27	1,604,023.78684	2,346,512.98677	39.46896	-107.81505	
2,000.00	18.77	349.35	1,927.26	476.74	-65.16	1,604,087.32452	2,346,502.70664	39.46913	-107.81509	
2,200.00	18.77	349.35	2,116.62	540.00	-77.06	1,604,150.86220	2,346,492.42651	39.46931	-107.81513	
2,400.00	18.77	349.35	2,305.98	603.26	-88.96	1,604,214.39986	2,346,482.14638	39.46948	-107.81517	
2,600.00	18.77	349.35	2,495.34	666.51	-100.85	1,604,277.93754	2,346,471.86625	39.46965	-107.81522	
2,800.00	18.77	349.35	2,684.70	729.77	-112.75	1,604,341.47522	2,346,461.58612	39.46983	-107.81526	
3,000.00	18.77	349.35	2,874.06	793.03	-124.64	1,604,405.01290	2,346,451.30599	39.47000	-107.81530	
3,200.00	18.77	349.35	3,063.42	856.29	-136.54	1,604,468.55058	2,346,441.02586	39.47017	-107.81534	
3,400.00	18.77	349.35	3,252.78	919.55	-148.44	1,604,532.08826	2,346,430.74574	39.47035	-107.81538	
3,600.00	18.77	349.35	3,442.14	982.80	-160.33	1,604,595.62593	2,346,420.46561	39.47052	-107.81543	
3,643.16	18.77	349.35	3,483.00	996.45	-162.90	1,604,609.33702	2,346,418.24721	39.47056	-107.81544	
Top of "G" Sand										
3,748.78	18.77	349.35	3,583.00	1,029.86	-169.18	1,604,642.89106	2,346,412.81831	39.47065	-107.81546	
Base of "G" Sand										
3,800.00	18.77	349.35	3,631.50	1,046.06	-172.23	1,604,659.16361	2,346,410.18548	39.47070	-107.81547	
4,000.00	18.77	349.35	3,820.86	1,109.32	-184.12	1,604,722.70128	2,346,399.90535	39.47087	-107.81551	
4,200.00	18.77	349.35	4,010.22	1,172.58	-196.02	1,604,786.23896	2,346,389.62523	39.47104	-107.81555	
4,400.00	18.77	349.35	4,199.57	1,235.83	-207.92	1,604,849.77664	2,346,379.34510	39.47122	-107.81560	
4,600.00	18.77	349.35	4,388.93	1,299.09	-219.81	1,604,913.31432	2,346,369.06497	39.47139	-107.81564	
4,800.00	18.77	349.35	4,578.29	1,362.35	-231.71	1,604,976.85199	2,346,358.78484	39.47156	-107.81568	
5,000.00	18.77	349.35	4,767.65	1,425.61	-243.61	1,605,040.38967	2,346,348.50471	39.47174	-107.81572	
5,200.00	18.77	349.35	4,957.01	1,488.87	-255.50	1,605,103.92735	2,346,338.22459	39.47191	-107.81576	
5,400.00	18.77	349.35	5,146.37	1,552.12	-267.40	1,605,167.46502	2,346,327.94446	39.47208	-107.81581	
5,600.00	18.77	349.35	5,335.73	1,615.38	-279.29	1,605,231.00270	2,346,317.66433	39.47226	-107.81585	
5,800.00	18.77	349.35	5,525.09	1,678.64	-291.19	1,605,294.54038	2,346,307.38420	39.47243	-107.81589	
6,000.00	18.77	349.35	5,714.45	1,741.90	-303.09	1,605,358.07806	2,346,297.10407	39.47261	-107.81593	
6,046.72	18.77	349.35	5,758.69	1,756.68	-305.87	1,605,372.92149	2,346,294.70246	39.47265	-107.81594	
Start Drop -1.50										
6,200.00	16.47	349.35	5,904.76	1,802.28	-314.44	1,605,418.72884	2,346,287.29103	39.47277	-107.81597	
6,296.88	15.02	349.35	5,998.00	1,828.12	-319.30	1,605,444.68379	2,346,283.09163	39.47284	-107.81599	
Mesaverde										
6,400.00	13.47	349.35	6,097.94	1,853.06	-323.99	1,605,469.73590	2,346,279.03830	39.47291	-107.81601	
6,600.00	10.47	349.35	6,293.57	1,893.84	-331.66	1,605,510.69271	2,346,272.41166	39.47302	-107.81603	
6,800.00	7.47	349.35	6,491.10	1,924.50	-337.43	1,605,541.48702	2,346,267.42927	39.47311	-107.81605	
7,000.00	4.47	349.35	6,689.99	1,944.96	-341.27	1,605,562.03442	2,346,264.10479	39.47316	-107.81607	

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 432-6 - Slot A08
<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 432-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 09Jul14 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	
7,200.00	1.47	349.35	6,889.70	1,955.16	-343.19	1,605,572.27860	2,346,262.44732	39.47319	-107.81607	
7,298.31	0.00	0.00	6,988.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
Vertical										
7,398.31	0.00	0.00	7,088.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
Top Gas - Approx. Top Gas										
7,400.00	0.00	0.00	7,089.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
7,600.00	0.00	0.00	7,289.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
7,800.00	0.00	0.00	7,489.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
8,000.00	0.00	0.00	7,689.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
8,200.00	0.00	0.00	7,889.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
8,400.00	0.00	0.00	8,089.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
8,600.00	0.00	0.00	8,289.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
8,800.00	0.00	0.00	8,489.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,000.00	0.00	0.00	8,689.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,146.31	0.00	0.00	8,836.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
Cameo Coals										
9,200.00	0.00	0.00	8,889.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,400.00	0.00	0.00	9,089.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,600.00	0.00	0.00	9,289.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,800.00	0.00	0.00	9,489.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
9,847.31	0.00	0.00	9,537.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
Coal D										
9,998.31	0.00	0.00	9,688.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
Rollins SS										
10,000.00	0.00	0.00	9,689.69	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
10,148.31	0.00	0.00	9,838.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
TD at 10148.31 - TD										

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 hits target center - Circle (radius 50.00)	0.00	0.00	7,088.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	
TD / PBHL RU 432-6 - plan hits target center - Point	0.00	0.00	9,838.00	1,956.40	-343.42	1,605,573.52746	2,346,262.24526	39.47319	-107.81608	

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,126.25	1,100.00	9 5/8"	9.625	13.500	



<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well RU 432-6 - Slot A08
<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 432-6	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #4 09Jul14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,643.16	3,483.00	Top of "G" Sand				
3,748.78	3,583.00	Base of "G" Sand				
6,296.88	5,998.00	Mesaverde				
7,398.31	7,088.00	Approx. Top Gas				
9,146.31	8,836.00	Cameo Coals				
9,847.31	9,537.00	Coal D				
9,998.31	9,688.00	Rollins SS				
10,148.31	9,838.00	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 2.50	
720.00	713.17	78.02	3.41	Begin 2.5°/100 Build & Turn	
933.91	917.90	139.55	-1.75	Hold 18.77° Inc, 349.35° Az	
6,046.72	5,758.69	1,756.68	-305.87	Start Drop -1.50	
7,298.31	6,988.00	1,956.40	-343.42	Vertical	
7,398.31	7,088.00	1,956.40	-343.42	Top Gas	
10,148.31	9,838.00	1,956.40	-343.42	TD at 10148.31	