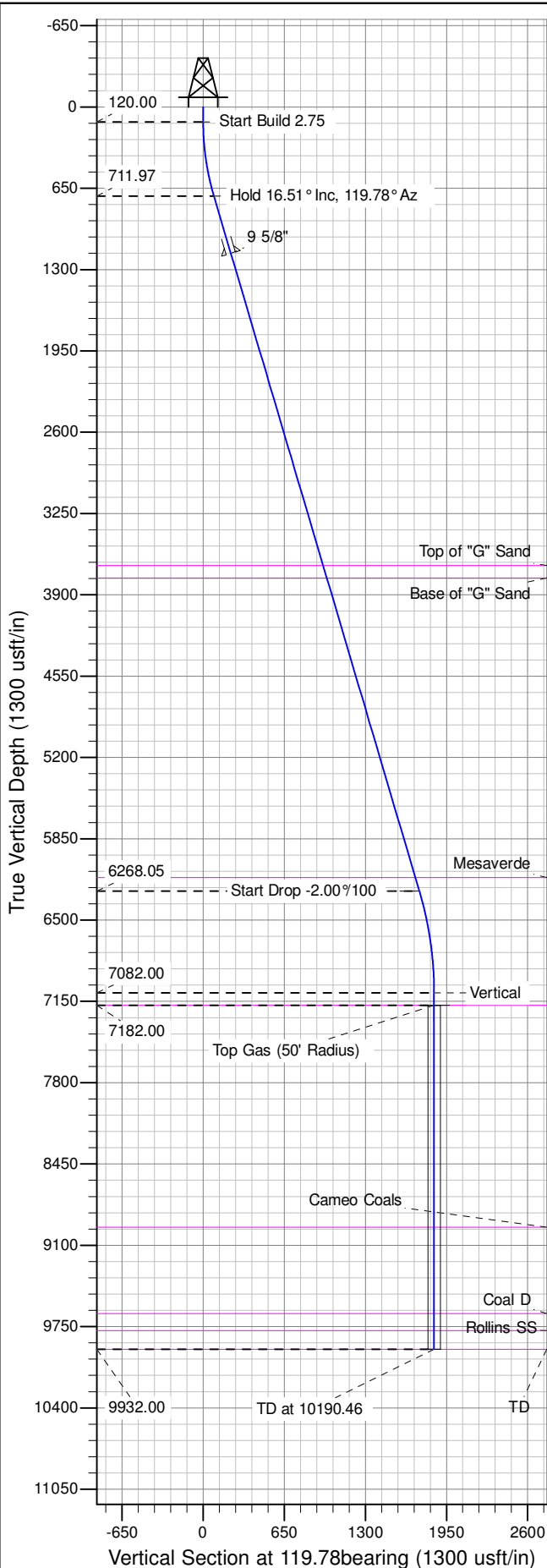


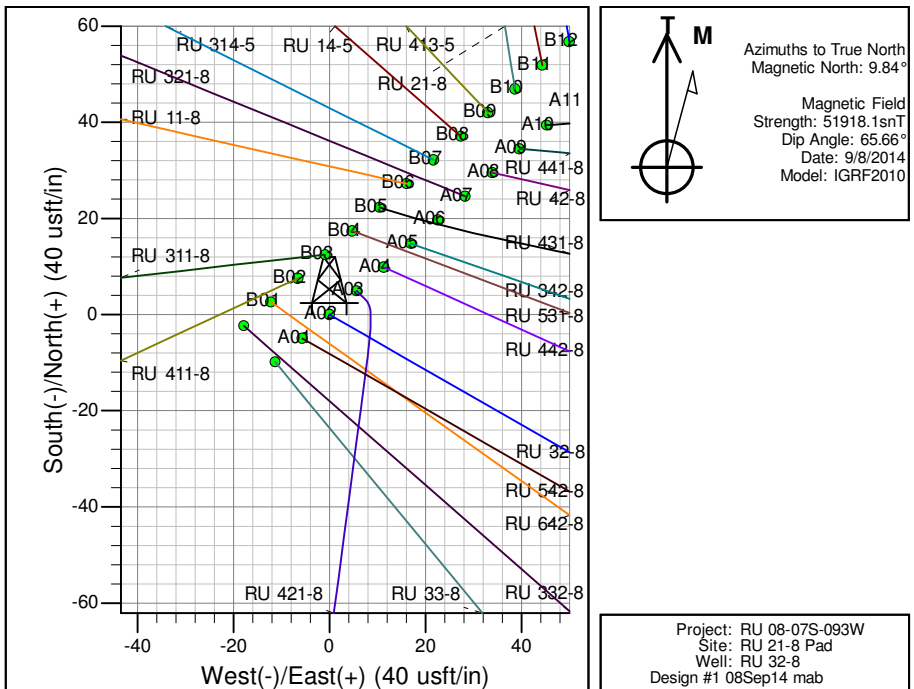
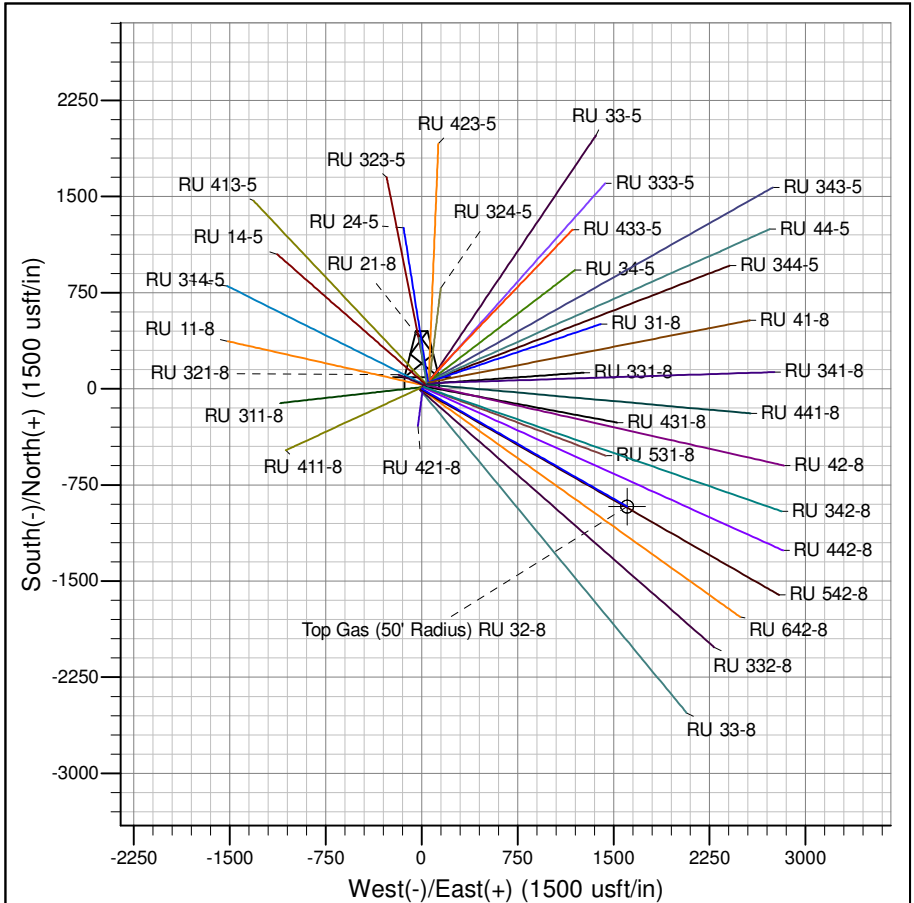


Well Name: RU 32-8
Surface Location: RU 21-8 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7736.00
KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1602635.99	2350468.92	39.46542	-107.80091	A03



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 2.75	
711.97	720.23	16.51	119.78	-42.64	74.53	85.86	85.86	Hold 16.51° Inc, 119.78° Az	
6268.05	6515.14	16.51	119.78	-860.28	1503.62	1732.33	1732.33	Start Drop -2.00°/100	
7082.00	7340.46	0.00	0.00	-918.91	1606.10	1850.39	1850.39	Vertical	
7182.00	7440.46	0.00	0.00	-918.91	1606.10	1850.39	1850.39	Top Gas	
9932.00	10190.46	0.00	0.00	-918.91	1606.10	1850.39	1850.39	TD at 10190.46	



Project: RU 08-07S-093W
Site: RU 21-8 Pad
Well: RU 32-8
Design #1 08Sep14 mab

PICEANCE VLY NAD 83

RU 08-07S-093W

RU 21-8 Pad

RU 32-8 - Slot A03

Wellbore #1

Plan: Design #1 08Sep14 mab

Standard Planning Report - Geographic

28 November, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 32-8 - Slot A03
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 32-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Sep14 mab		

Project	RU 08-07S-093W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	RU 21-8 Pad			
Site Position:		Northing:	1,602,707.70 usft	Latitude: 39.46563
From: Map		Easting:	2,350,555.60 usft	Longitude: -107.80061
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.45 °

Well	RU 32-8 - Slot A03			
Well Position	+N/-S	0.00 usft	Northing:	1,602,635.99 usft
	+E/-W	0.00 usft	Easting:	2,350,468.92 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	7,736.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/8/2014	9.84	65.66	51,918

Design	Design #1 08Sep14 mab			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	119.78

Plan Sections										
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	
720.23	16.51	119.78	711.97	-42.64	74.53	2.75	2.75	0.00	119.78	
6,515.14	16.51	119.78	6,268.05	-860.28	1,503.62	0.00	0.00	0.00	0.00	
7,340.46	0.00	0.00	7,082.00	-918.91	1,606.10	2.00	-2.00	0.00	180.00	
7,440.46	0.00	0.00	7,182.00	-918.91	1,606.10	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,190.46	0.00	0.00	9,932.00	-918.91	1,606.10	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 32-8 - Slot A03
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 32-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Sep14 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	1,602,635.99	2,350,468.92	39.46543	-107.80091
120.00	0.00	0.00	120.00	0.00	0.00	1,602,635.99	2,350,468.92	39.46543	-107.80091
Start Build 2.75									
200.00	2.20	119.78	199.98	-0.76	1.33	1,602,635.19	2,350,470.23	39.46542	-107.80091
400.00	7.70	119.78	399.16	-9.33	16.31	1,602,626.25	2,350,484.98	39.46540	-107.80086
600.00	13.20	119.78	595.77	-27.34	47.78	1,602,607.45	2,350,515.99	39.46535	-107.80075
720.23	16.51	119.78	711.97	-42.64	74.53	1,602,591.47	2,350,542.34	39.46531	-107.80065
Hold 16.51° Inc, 119.78° Az									
800.00	16.51	119.78	788.44	-53.90	94.20	1,602,579.72	2,350,561.72	39.46528	-107.80058
1,000.00	16.51	119.78	980.20	-82.11	143.52	1,602,550.26	2,350,610.32	39.46520	-107.80041
1,200.00	16.51	119.78	1,171.96	-110.33	192.84	1,602,520.80	2,350,658.91	39.46512	-107.80023
9 5/8"									
1,400.00	16.51	119.78	1,363.72	-138.55	242.17	1,602,491.34	2,350,707.50	39.46504	-107.80006
1,600.00	16.51	119.78	1,555.47	-166.77	291.49	1,602,461.88	2,350,756.09	39.46497	-107.79988
1,800.00	16.51	119.78	1,747.23	-194.99	340.81	1,602,432.43	2,350,804.68	39.46489	-107.79971
2,000.00	16.51	119.78	1,938.99	-223.21	390.13	1,602,402.97	2,350,853.28	39.46481	-107.79953
2,200.00	16.51	119.78	2,130.75	-251.43	439.46	1,602,373.51	2,350,901.87	39.46474	-107.79936
2,400.00	16.51	119.78	2,322.50	-279.65	488.78	1,602,344.05	2,350,950.46	39.46466	-107.79918
2,600.00	16.51	119.78	2,514.26	-307.87	538.10	1,602,314.59	2,350,999.05	39.46458	-107.79901
2,800.00	16.51	119.78	2,706.02	-336.09	587.42	1,602,285.13	2,351,047.64	39.46450	-107.79883
3,000.00	16.51	119.78	2,897.78	-364.31	636.75	1,602,255.67	2,351,096.24	39.46443	-107.79866
3,200.00	16.51	119.78	3,089.53	-392.53	686.07	1,602,226.21	2,351,144.83	39.46435	-107.79848
3,400.00	16.51	119.78	3,281.29	-420.75	735.39	1,602,196.75	2,351,193.42	39.46427	-107.79831
3,600.00	16.51	119.78	3,473.05	-448.97	784.71	1,602,167.29	2,351,242.01	39.46419	-107.79814
3,800.00	16.51	119.78	3,664.81	-477.18	834.04	1,602,137.83	2,351,290.61	39.46412	-107.79796
3,801.24	16.51	119.78	3,666.00	-477.36	834.34	1,602,137.65	2,351,290.91	39.46411	-107.79796
Top of "G" Sand									
3,905.54	16.51	119.78	3,766.00	-492.08	860.07	1,602,122.29	2,351,316.25	39.46407	-107.79787
Base of "G" Sand									
4,000.00	16.51	119.78	3,856.57	-505.40	883.36	1,602,108.37	2,351,339.20	39.46404	-107.79779
4,200.00	16.51	119.78	4,048.32	-533.62	932.68	1,602,078.91	2,351,387.79	39.46396	-107.79761
4,400.00	16.51	119.78	4,240.08	-561.84	982.00	1,602,049.45	2,351,436.38	39.46388	-107.79744
4,600.00	16.51	119.78	4,431.84	-590.06	1,031.33	1,602,020.00	2,351,484.97	39.46381	-107.79726
4,800.00	16.51	119.78	4,623.60	-618.28	1,080.65	1,601,990.54	2,351,533.57	39.46373	-107.79709
5,000.00	16.51	119.78	4,815.35	-646.50	1,129.97	1,601,961.08	2,351,582.16	39.46365	-107.79691
5,200.00	16.51	119.78	5,007.11	-674.72	1,179.29	1,601,931.62	2,351,630.75	39.46357	-107.79674
5,400.00	16.51	119.78	5,198.87	-702.94	1,228.62	1,601,902.16	2,351,679.34	39.46350	-107.79656
5,600.00	16.51	119.78	5,390.63	-731.16	1,277.94	1,601,872.70	2,351,727.93	39.46342	-107.79639
5,800.00	16.51	119.78	5,582.38	-759.38	1,327.26	1,601,843.24	2,351,776.53	39.46334	-107.79621
6,000.00	16.51	119.78	5,774.14	-787.60	1,376.58	1,601,813.78	2,351,825.12	39.46326	-107.79604
6,200.00	16.51	119.78	5,965.90	-815.82	1,425.91	1,601,784.32	2,351,873.71	39.46319	-107.79586
6,400.00	16.51	119.78	6,157.66	-844.04	1,475.23	1,601,754.86	2,351,922.30	39.46311	-107.79569
6,402.45	16.51	119.78	6,160.00	-844.38	1,475.83	1,601,754.50	2,351,922.90	39.46311	-107.79569
Mesaverde									
6,515.14	16.51	119.78	6,268.05	-860.28	1,503.62	1,601,737.90	2,351,950.28	39.46306	-107.79559
Start Drop -2.00°/100									
6,600.00	14.81	119.78	6,349.76	-871.65	1,523.50	1,601,726.03	2,351,969.86	39.46303	-107.79552
6,800.00	10.81	119.78	6,544.74	-893.67	1,561.98	1,601,703.05	2,352,007.77	39.46297	-107.79538
7,000.00	6.81	119.78	6,742.34	-908.88	1,588.56	1,601,687.17	2,352,033.96	39.46293	-107.79529
7,200.00	2.81	119.78	6,941.60	-917.20	1,603.11	1,601,678.48	2,352,048.29	39.46291	-107.79524
7,340.46	0.00	0.00	7,082.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
Vertical									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 32-8 - Slot A03
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 32-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Sep14 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
7,400.00	0.00	0.00	7,141.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
7,440.46	0.00	0.00	7,182.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
Top Gas - Approx. Top Gas									
7,600.00	0.00	0.00	7,341.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
7,800.00	0.00	0.00	7,541.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
8,000.00	0.00	0.00	7,741.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
8,200.00	0.00	0.00	7,941.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
8,400.00	0.00	0.00	8,141.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
8,600.00	0.00	0.00	8,341.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
8,800.00	0.00	0.00	8,541.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,000.00	0.00	0.00	8,741.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,200.00	0.00	0.00	8,941.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,214.46	0.00	0.00	8,956.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
Cameo Coals									
9,400.00	0.00	0.00	9,141.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,600.00	0.00	0.00	9,341.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,800.00	0.00	0.00	9,541.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
9,904.46	0.00	0.00	9,646.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
Coal D									
10,000.00	0.00	0.00	9,741.54	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
10,040.46	0.00	0.00	9,782.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
Rollins SS									
10,190.46	0.00	0.00	9,932.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523
TD at 10190.46 - 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	358.55	7,182.00	-918.91	1,606.10	1,601,676.69	2,352,051.23	39.46290	-107.79523	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (in)	Hole Diameter (in)
1,200.00	1,171.96	9 5/8"			9.625	13.500

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 32-8 - Slot A03
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Project:	RU 08-07S-093W	MD Reference:	KELLY BUSHING @ 7762.00usft (Nabors 576 (26' RKB) mab)
Site:	RU 21-8 Pad	North Reference:	True
Well:	RU 32-8	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Sep14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,801.24	3,666.00	Top of "G" Sand				
3,905.54	3,766.00	Base of "G" Sand				
6,402.45	6,160.00	Mesaverde				
7,440.46	7,182.00	Approx. Top Gas				
9,214.46	8,956.00	Cameo Coals				
9,904.46	9,646.00	Coal D				
10,040.46	9,782.00	Rollins SS				
10,190.46	9,932.00	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 2.75	
720.23	711.97	-42.64	74.53	Hold 16.51° Inc, 119.78° Az	
6,515.14	6,268.05	-860.28	1,503.62	Start Drop -2.00°/100	
7,340.46	7,082.00	-918.91	1,606.10	Vertical	
7,440.46	7,182.00	-918.91	1,606.10	Top Gas	
10,190.46	9,932.00	-918.91	1,606.10	TD at 10190.46	