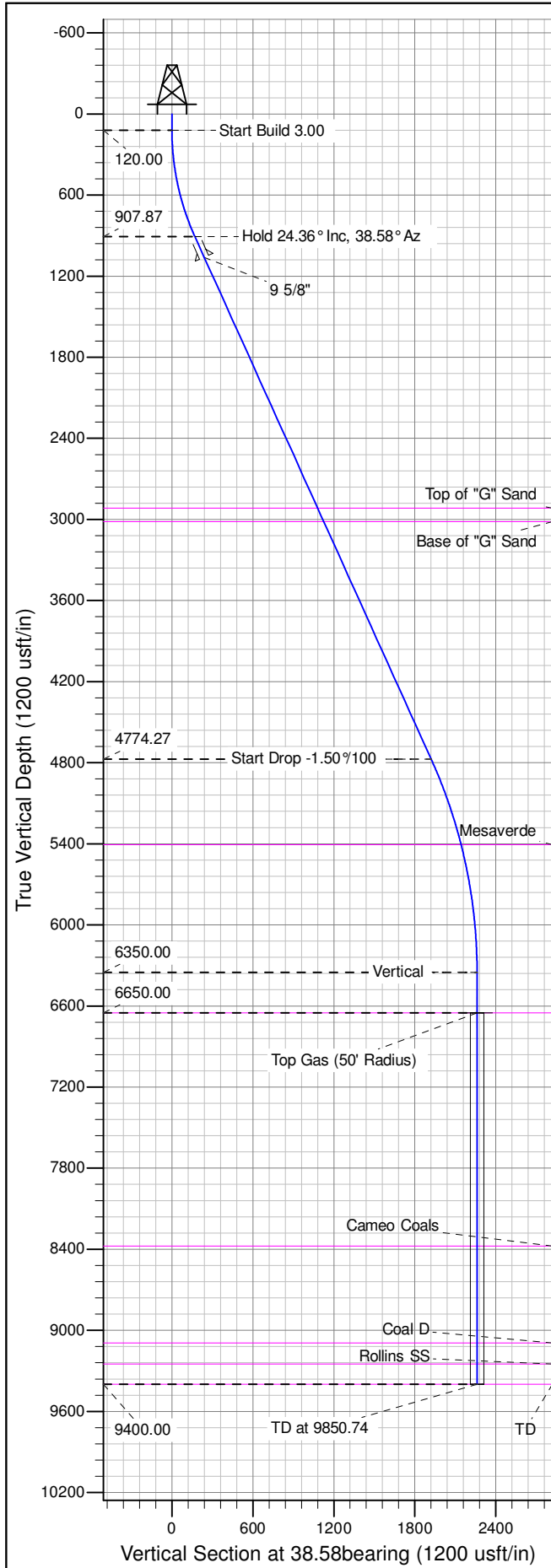
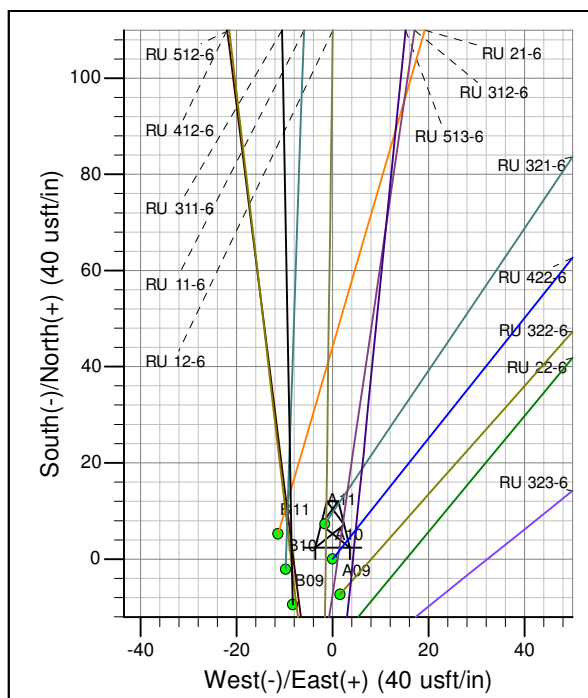
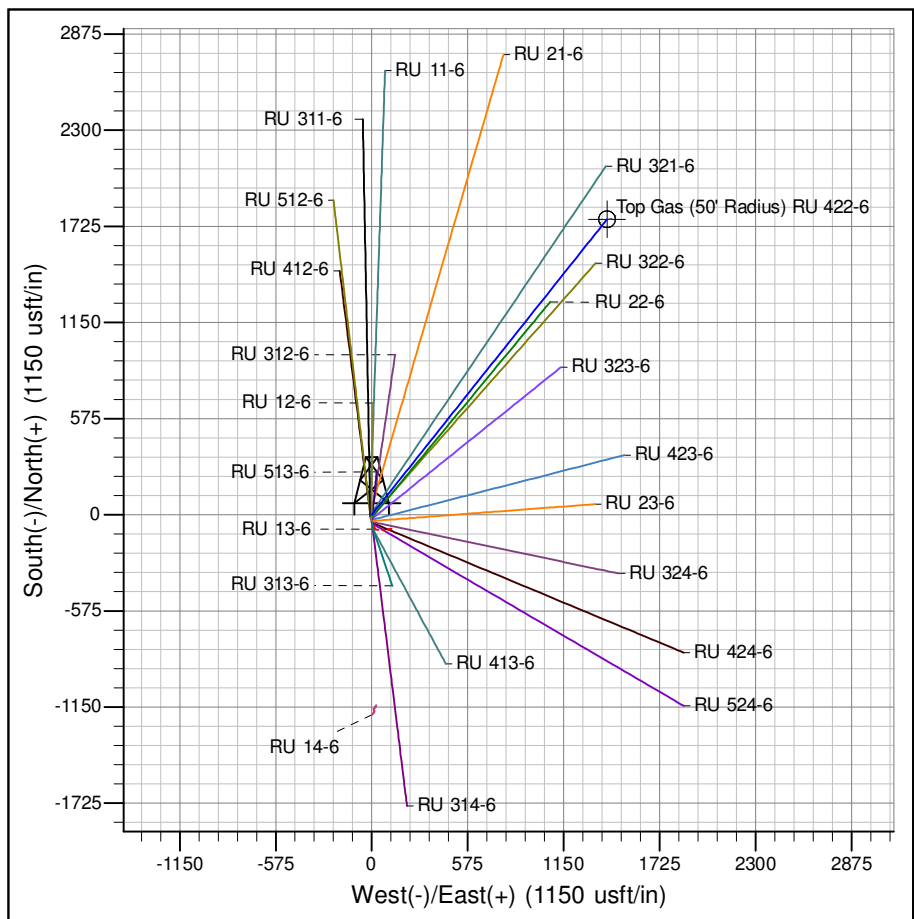




Well Name: RU 422-6
Surface Location: RU 13-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6985.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603471.80000 2343748.80000 39.467249 -107.824783 A10
KELLY BUSHING @ 7011.00usft (Nabors 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 3.00	
907.87	932.12	24.36	38.58	132.95	106.07	170.08	170.08	Hold 24.36° Inc, 38.58° Az	
4774.27	5176.50	24.36	38.58	1501.63	1198.05	1921.00	1921.00	Start Drop -1.50%/100	
6350.00	6800.74	0.00	0.00	1767.54	1410.20	2261.16	2261.16	Vertical	
6650.00	7100.74	0.00	0.00	1767.54	1410.20	2261.16	2261.16	Top Gas	
9400.00	9850.74	0.00	0.00	1767.54	1410.20	2261.16	2261.16	TD at 9850.74	



Azimuths to True North
Magnetic North: 9.87°

Magnetic Field
Strength: 51936.7snT
Dip Angle: 65.66°
Date: 7/17/2014
Model: IGRF2010

Project: RU 06-07S-093W
Site: RU 13-6 Pad
Well: RU 422-6
Design #1 17Jul14 mab

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 422-6 - Slot A10

Wellbore #1

Plan: Design #1 17Jul14 mab

Standard Planning Report - Geographic

16 September, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 422-6 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 422-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 mab		

Project	RU 06-07S-093W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	RU 13-6 Pad		
Site Position:		Northing:	1,603,405.40000 usft
From:	Map	Easting:	2,343,761.30000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.467067
		Longitude:	-107.824733
		Grid Convergence:	-1.47 °

Well	RU 422-6 - Slot A10		
Well Position	+N/-S	0.00 usft	Northing: 1,603,471.80000 usft
	+E/-W	0.00 usft	Easting: 2,343,748.80000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.467249
		Longitude:	-107.824783
		Ground Level:	6,985.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/17/2014	9.87	65.66	51,937

Design	Design #1 17Jul14 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	38.58	

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	
932.12	24.36	38.58	907.87	132.95	106.07	3.00	3.00	0.00	38.58	
5,176.50	24.36	38.58	4,774.27	1,501.63	1,198.05	0.00	0.00	0.00	0.00	
6,800.74	0.00	0.00	6,350.00	1,767.54	1,410.20	1.50	-1.50	0.00	180.00	
7,100.74	0.00	0.00	6,650.00	1,767.54	1,410.20	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,850.74	0.00	0.00	9,400.00	1,767.54	1,410.20	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 422-6 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 422-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 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	1,603,471.80000	2,343,748.80000	39.467249	-107.824783	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,471.80000	2,343,748.80000	39.467249	-107.824783	
Start Build 3.00										
200.00	2.40	38.58	199.98	1.31	1.04	1,603,473.08233	2,343,749.87792	39.467252	-107.824780	
400.00	8.40	38.58	399.00	16.02	12.78	1,603,487.48274	2,343,761.98282	39.467293	-107.824738	
600.00	14.40	38.58	594.96	46.90	37.42	1,603,517.72818	2,343,787.40695	39.467378	-107.824651	
800.00	20.40	38.58	785.72	93.63	74.70	1,603,563.48727	2,343,825.87176	39.467506	-107.824519	
932.12	24.36	38.58	907.87	132.95	106.07	1,603,601.98818	2,343,858.23540	39.467614	-107.824408	
Hold 24.36° Inc, 38.58° Az										
1,000.00	24.36	38.58	969.70	154.84	123.54	1,603,623.42216	2,343,876.25267	39.467674	-107.824346	
1,100.00	24.36	38.58	1,060.80	187.09	149.26	1,603,654.99888	2,343,902.79587	39.467762	-107.824255	
9 5/8"										
1,200.00	24.36	38.58	1,151.89	219.33	174.99	1,603,686.57559	2,343,929.33906	39.467851	-107.824163	
1,400.00	24.36	38.58	1,334.08	283.83	226.45	1,603,749.72903	2,343,982.42546	39.468028	-107.823981	
1,600.00	24.36	38.58	1,516.27	348.32	277.90	1,603,812.88245	2,344,035.51184	39.468205	-107.823799	
1,800.00	24.36	38.58	1,698.46	412.82	329.36	1,603,876.03588	2,344,088.59823	39.468382	-107.823617	
2,000.00	24.36	38.58	1,880.65	477.31	380.81	1,603,939.18932	2,344,141.68463	39.468559	-107.823434	
2,200.00	24.36	38.58	2,062.84	541.80	432.27	1,604,002.34275	2,344,194.77102	39.468736	-107.823252	
2,400.00	24.36	38.58	2,245.03	606.30	483.72	1,604,065.49618	2,344,247.85741	39.468913	-107.823070	
2,600.00	24.36	38.58	2,427.21	670.79	535.18	1,604,128.64962	2,344,300.94381	39.469090	-107.822888	
2,800.00	24.36	38.58	2,609.40	735.29	586.63	1,604,191.80304	2,344,354.03020	39.469267	-107.822705	
3,000.00	24.36	38.58	2,791.59	799.78	638.09	1,604,254.95647	2,344,407.11660	39.469444	-107.822523	
3,136.57	24.36	38.58	2,916.00	843.82	673.23	1,604,298.08062	2,344,443.36648	39.469565	-107.822399	
Top of "G" Sand										
3,200.00	24.36	38.58	2,973.78	864.27	689.55	1,604,318.10990	2,344,460.20298	39.469621	-107.822341	
3,246.35	24.36	38.58	3,016.00	879.22	701.47	1,604,332.74428	2,344,472.50455	39.469663	-107.822299	
Base of "G" Sand										
3,400.00	24.36	38.58	3,155.97	928.77	741.00	1,604,381.26334	2,344,513.28937	39.469799	-107.822159	
3,600.00	24.36	38.58	3,338.16	993.26	792.46	1,604,444.41677	2,344,566.37577	39.469976	-107.821976	
3,800.00	24.36	38.58	3,520.35	1,057.76	843.91	1,604,507.57020	2,344,619.46216	39.470153	-107.821794	
4,000.00	24.36	38.58	3,702.54	1,122.25	895.37	1,604,570.72364	2,344,672.54855	39.470330	-107.821612	
4,200.00	24.36	38.58	3,884.73	1,186.74	946.82	1,604,633.87706	2,344,725.63495	39.470507	-107.821429	
4,400.00	24.36	38.58	4,066.92	1,251.24	998.28	1,604,697.03049	2,344,778.72134	39.470684	-107.821247	
4,600.00	24.36	38.58	4,249.11	1,315.73	1,049.73	1,604,760.18393	2,344,831.80772	39.470861	-107.821065	
4,800.00	24.36	38.58	4,431.30	1,380.23	1,101.19	1,604,823.33736	2,344,884.89412	39.471038	-107.820883	
5,000.00	24.36	38.58	4,613.48	1,444.72	1,152.64	1,604,886.49079	2,344,937.98051	39.471215	-107.820700	
5,176.50	24.36	38.58	4,774.27	1,501.63	1,198.05	1,604,942.22364	2,344,984.82921	39.471371	-107.820539	
Start Drop -1.50°/100										
5,200.00	24.01	38.58	4,795.70	1,509.16	1,204.06	1,604,949.59377	2,344,991.02449	39.471392	-107.820518	
5,400.00	21.01	38.58	4,980.44	1,569.01	1,251.81	1,605,008.19934	2,345,040.28799	39.471556	-107.820349	
5,600.00	18.01	38.58	5,168.94	1,621.22	1,293.46	1,605,059.32385	2,345,083.26294	39.471699	-107.820202	
5,800.00	15.01	38.58	5,360.67	1,665.65	1,328.91	1,605,102.82714	2,345,119.83154	39.471821	-107.820076	
5,846.86	14.31	38.58	5,406.00	1,674.92	1,336.30	1,605,111.90431	2,345,127.46175	39.471847	-107.820050	
Mesaverde										
6,000.00	12.01	38.58	5,555.11	1,702.17	1,358.05	1,605,138.58999	2,345,149.89358	39.471922	-107.819973	
6,200.00	9.01	38.58	5,751.73	1,730.69	1,380.80	1,605,166.51438	2,345,173.36665	39.472000	-107.819892	
6,400.00	6.01	38.58	5,949.99	1,751.12	1,397.10	1,605,186.52375	2,345,190.18641	39.472056	-107.819834	
6,600.00	3.01	38.58	6,149.35	1,763.42	1,406.91	1,605,198.56327	2,345,200.30676	39.472090	-107.819800	
6,800.00	0.01	38.58	6,349.26	1,767.54	1,410.20	1,605,202.59995	2,345,203.69996	39.472101	-107.819788	
6,800.74	0.00	0.00	6,350.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788	
Vertical										
7,000.00	0.00	0.00	6,549.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 422-6 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 422-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 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
7,100.74	0.00	0.00	6,650.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
Top Gas - Approx. Top Gas									
7,200.00	0.00	0.00	6,749.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
7,400.00	0.00	0.00	6,949.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
7,600.00	0.00	0.00	7,149.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
7,800.00	0.00	0.00	7,349.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,000.00	0.00	0.00	7,549.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,200.00	0.00	0.00	7,749.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,400.00	0.00	0.00	7,949.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,600.00	0.00	0.00	8,149.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,800.00	0.00	0.00	8,349.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
8,826.74	0.00	0.00	8,376.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
Cameo Coals									
9,000.00	0.00	0.00	8,549.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
9,200.00	0.00	0.00	8,749.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
9,400.00	0.00	0.00	8,949.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
9,544.74	0.00	0.00	9,094.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
Coal D									
9,600.00	0.00	0.00	9,149.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
9,700.74	0.00	0.00	9,250.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
Rollins SS									
9,800.00	0.00	0.00	9,349.26	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
9,850.74	0.00	0.00	9,400.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788
TD at 9850.74 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (50' Radius) RL - hit/miss target - Shape - plan hits target center - Circle (radius 50.00)	0.00	0.00	6,650.00	1,767.54	1,410.20	1,605,202.60000	2,345,203.70000	39.472101	-107.819788

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,060.80	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 422-6 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 422-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 mab		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
	3,136.57	2,916.00	Top of "G" Sand			
	3,246.35	3,016.00	Base of "G" Sand			
	5,846.86	5,406.00	Mesaverde			
	7,100.74	6,650.00	Approx. Top Gas			
	8,826.74	8,376.00	Cameo Coals			
	9,544.74	9,094.00	Coal D			
	9,700.74	9,250.00	Rollins SS			
	9,850.74	9,400.00	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 3.00
	932.12	907.87	132.95	106.07	Hold 24.36° Inc, 38.58° Az
	5,176.50	4,774.27	1,501.63	1,198.05	Start Drop -1.50°/100
	6,800.74	6,350.00	1,767.54	1,410.20	Vertical
	7,100.74	6,650.00	1,767.54	1,410.20	Top Gas
	9,850.74	9,400.00	1,767.54	1,410.20	TD at 9850.74