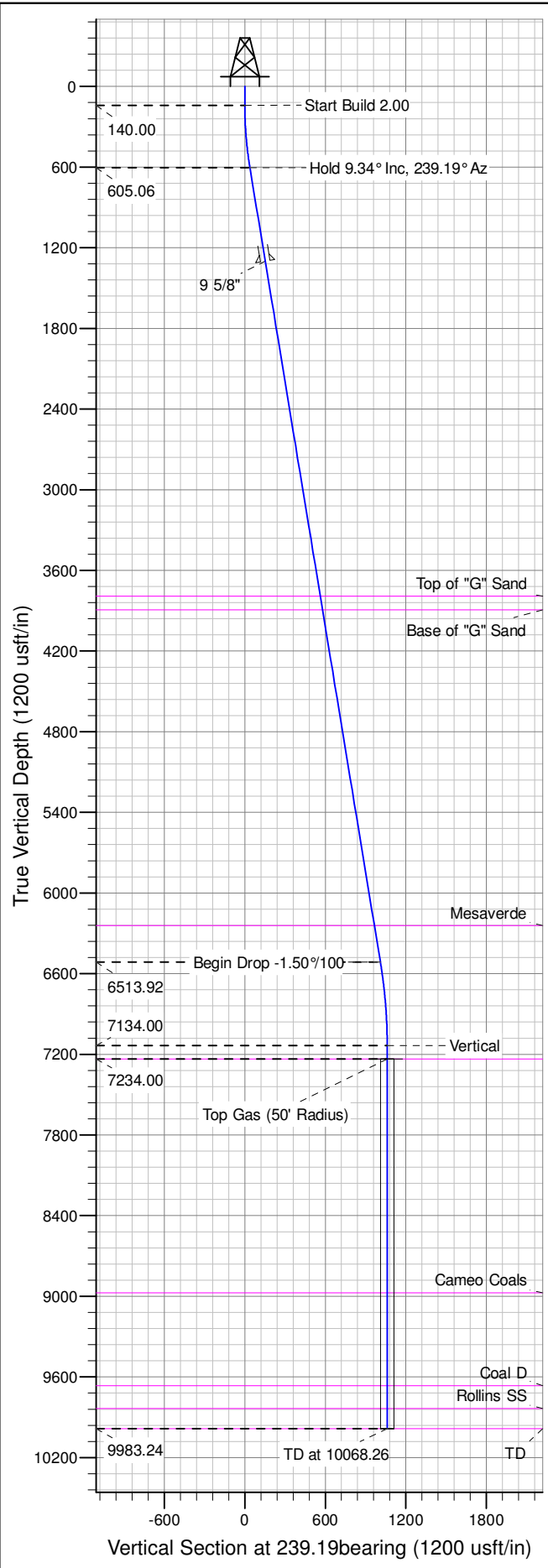
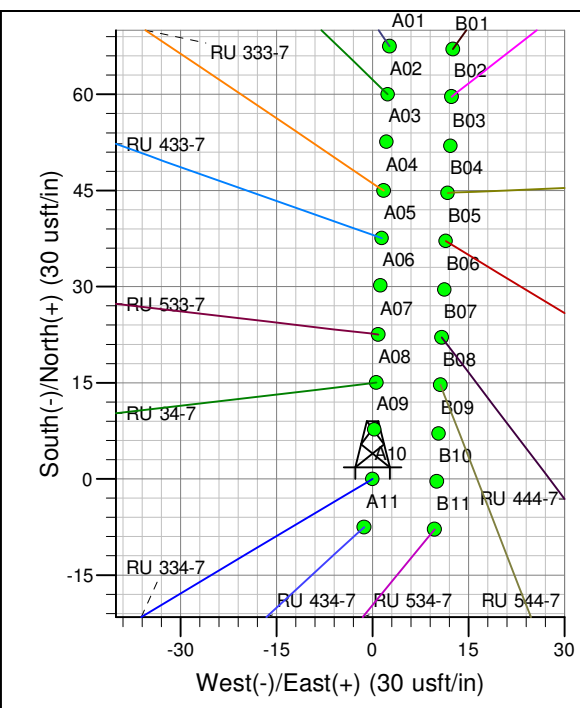
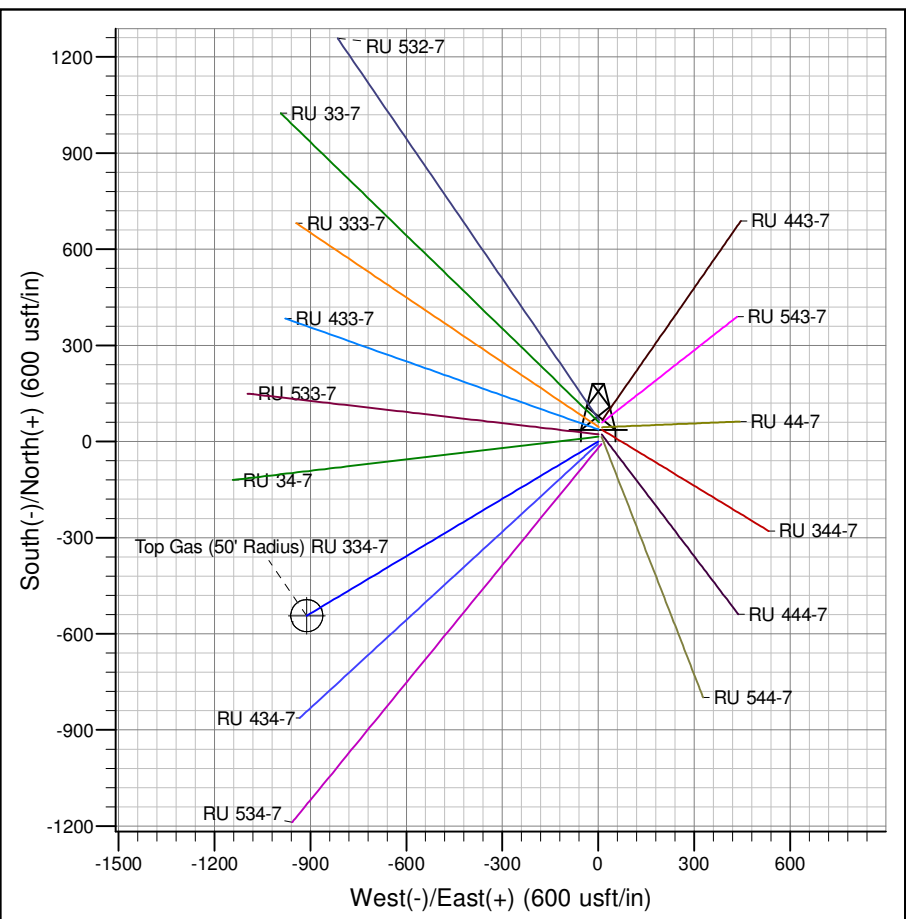




Well Name: RU 334-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598808.80000 2347565.90000 39.45472 -107.81085 A10
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
140.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
605.06	607.13	9.34	239.19	-19.46	-32.64	38.00	38.00	Hold 9.34° Inc, 239.19° Az	
6513.92	6595.42	9.34	239.19	-517.32	-867.60	1010.13	1010.13	Begin Drop -1.50°/100	
7134.00	7218.26	0.00	0.00	-543.27	-911.12	1060.79	1060.79	Vertical	
7234.00	7318.26	0.00	0.00	-543.27	-911.12	1060.79	1060.79	Top Gas	
9983.24	10067.50	0.00	0.00	-543.27	-911.12	1060.79	1060.79	TD at 10068.26	



Azimuths to True North
Magnetic North: 9.87°

Magnetic Field
Strength: 52001.8snT
Dip Angle: 65.68°
Date: 3/12/2014
Model: IGRF200510

Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 334-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 334-7 - Slot A10

Wellbore #1

Plan: Design #2 28May14 mab

Standard Planning Report - Geographic

12 June, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 334-7 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 334-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 mab		

Project	RU 07-07S-093W, Garfield County, CO		
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 44-7 Pad			
Site Position:		Northing:	1,598,795.70000 usft	Latitude: 39.45468
From: Map		Easting:	2,347,575.10000 usft	Longitude: -107.81082
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.46 °

Well	RU 334-7 - Slot A10			
Well Position	+N/-S	0.00 usft	Northing:	1,598,808.80000 usft
	+E/-W	0.00 usft	Easting:	2,347,565.90000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	7,917.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/12/2014	9.87	65.68	52,002

Design	Design #2 28May14 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	239.19

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	
140.00	0.00	0.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	
607.13	9.34	239.19	605.06	-19.46	-32.64	2.00	2.00	0.00	239.19	
6,595.42	9.34	239.19	6,513.92	-517.32	-867.60	0.00	0.00	0.00	0.00	
7,218.26	0.00	0.00	7,134.00	-543.27	-911.12	1.50	-1.50	0.00	180.00	
7,318.26	0.00	0.00	7,234.00	-543.27	-911.12	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,068.26	0.00	0.00	9,984.00	-543.27	-911.12	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 334-7 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 334-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 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	1,598,808.80000	2,347,565.90000	39.45472	-107.81085	
140.00	0.00	0.00	140.00	0.00	0.00	1,598,808.80000	2,347,565.90000	39.45472	-107.81085	
Start Build 2.00										
200.00	1.20	239.19	200.00	-0.32	-0.54	1,598,808.49207	2,347,565.35237	39.45472	-107.81085	
400.00	5.20	239.19	399.64	-6.04	-10.13	1,598,803.02150	2,347,555.62341	39.45470	-107.81089	
600.00	9.20	239.19	598.03	-18.87	-31.65	1,598,790.73871	2,347,533.77947	39.45467	-107.81096	
607.13	9.34	239.19	605.06	-19.46	-32.64	1,598,790.17565	2,347,532.77812	39.45467	-107.81096	
Hold 9.34° Inc, 239.19° Az										
800.00	9.34	239.19	795.37	-35.50	-59.53	1,598,774.83049	2,347,505.48799	39.45462	-107.81106	
1,000.00	9.34	239.19	992.72	-52.12	-87.42	1,598,758.91798	2,347,477.18888	39.45458	-107.81116	
1,200.00	9.34	239.19	1,190.07	-68.75	-115.30	1,598,743.00547	2,347,448.88978	39.45453	-107.81126	
1,311.41	9.34	239.19	1,300.00	-78.01	-130.84	1,598,734.14146	2,347,433.12584	39.45450	-107.81131	
9 5/8"										
1,400.00	9.34	239.19	1,387.42	-85.38	-143.19	1,598,727.09296	2,347,420.59067	39.45448	-107.81136	
1,600.00	9.34	239.19	1,584.76	-102.01	-171.08	1,598,711.18045	2,347,392.29156	39.45444	-107.81146	
1,800.00	9.34	239.19	1,782.11	-118.64	-198.96	1,598,695.26794	2,347,363.99245	39.45439	-107.81155	
2,000.00	9.34	239.19	1,979.46	-135.26	-226.85	1,598,679.35543	2,347,335.69334	39.45435	-107.81165	
2,200.00	9.34	239.19	2,176.80	-151.89	-254.74	1,598,663.44292	2,347,307.39423	39.45430	-107.81175	
2,400.00	9.34	239.19	2,374.15	-168.52	-282.62	1,598,647.53041	2,347,279.09512	39.45426	-107.81185	
2,600.00	9.34	239.19	2,571.50	-185.15	-310.51	1,598,631.61791	2,347,250.79601	39.45421	-107.81195	
2,800.00	9.34	239.19	2,768.84	-201.78	-338.40	1,598,615.70541	2,347,222.49691	39.45417	-107.81205	
3,000.00	9.34	239.19	2,966.19	-218.40	-366.28	1,598,599.79290	2,347,194.19780	39.45412	-107.81215	
3,200.00	9.34	239.19	3,163.54	-235.03	-394.17	1,598,583.88039	2,347,165.89870	39.45407	-107.81225	
3,400.00	9.34	239.19	3,360.89	-251.66	-422.06	1,598,567.96788	2,347,137.59959	39.45403	-107.81234	
3,600.00	9.34	239.19	3,558.23	-268.29	-449.94	1,598,552.05537	2,347,109.30048	39.45398	-107.81244	
3,800.00	9.34	239.19	3,755.58	-284.91	-477.83	1,598,536.14286	2,347,081.00137	39.45394	-107.81254	
3,836.91	9.34	239.19	3,792.00	-287.98	-482.97	1,598,533.20624	2,347,075.77884	39.45393	-107.81256	
Top of "G" Sand										
3,938.25	9.34	239.19	3,892.00	-296.41	-497.11	1,598,525.14303	2,347,061.43907	39.45391	-107.81261	
Base of "G" Sand										
4,000.00	9.34	239.19	3,952.93	-301.54	-505.72	1,598,520.23035	2,347,052.70226	39.45389	-107.81264	
4,200.00	9.34	239.19	4,150.27	-318.17	-533.60	1,598,504.31784	2,347,024.40315	39.45385	-107.81274	
4,400.00	9.34	239.19	4,347.62	-334.80	-561.49	1,598,488.40533	2,346,996.10405	39.45380	-107.81284	
4,600.00	9.34	239.19	4,544.97	-351.43	-589.37	1,598,472.49282	2,346,967.80494	39.45375	-107.81294	
4,800.00	9.34	239.19	4,742.32	-368.05	-617.26	1,598,456.58031	2,346,939.50583	39.45371	-107.81304	
5,000.00	9.34	239.19	4,939.66	-384.68	-645.15	1,598,440.66780	2,346,911.20672	39.45366	-107.81313	
5,200.00	9.34	239.19	5,137.01	-401.31	-673.03	1,598,424.75529	2,346,882.90761	39.45362	-107.81323	
5,400.00	9.34	239.19	5,334.36	-417.94	-700.92	1,598,408.84278	2,346,854.60850	39.45357	-107.81333	
5,600.00	9.34	239.19	5,531.70	-434.57	-728.81	1,598,392.93027	2,346,826.30939	39.45353	-107.81343	
5,800.00	9.34	239.19	5,729.05	-451.19	-756.69	1,598,377.01776	2,346,798.01029	39.45348	-107.81353	
6,000.00	9.34	239.19	5,926.40	-467.82	-784.58	1,598,361.10525	2,346,769.71119	39.45343	-107.81363	
6,200.00	9.34	239.19	6,123.74	-484.45	-812.47	1,598,345.19274	2,346,741.41208	39.45339	-107.81373	
6,319.85	9.34	239.19	6,242.00	-494.41	-829.18	1,598,335.65756	2,346,724.45454	39.45336	-107.81379	
Mesaverde										
6,400.00	9.34	239.19	6,321.09	-501.08	-840.35	1,598,329.28023	2,346,713.11297	39.45334	-107.81383	
6,595.42	9.34	239.19	6,513.92	-517.32	-867.60	1,598,313.73246	2,346,685.46252	39.45330	-107.81392	
Begin Drop -1.50°/100										
6,600.00	9.27	239.19	6,518.44	-517.70	-868.24	1,598,313.36905	2,346,684.81623	39.45330	-107.81392	
6,800.00	6.27	239.19	6,716.58	-531.56	-891.47	1,598,300.11191	2,346,661.23948	39.45326	-107.81401	
7,000.00	3.27	239.19	6,915.86	-540.08	-905.76	1,598,291.95524	2,346,646.73350	39.45324	-107.81406	
7,200.00	0.27	239.19	7,115.74	-543.25	-911.08	1,598,288.92138	2,346,641.33803	39.45323	-107.81408	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 334-7 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 334-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 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	
7,218.26	0.00	0.00	7,134.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
Vertical										
7,318.26	0.00	0.00	7,234.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
Top Gas - Approx. Top Gas										
7,400.00	0.00	0.00	7,315.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
7,600.00	0.00	0.00	7,515.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
7,800.00	0.00	0.00	7,715.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
8,000.00	0.00	0.00	7,915.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
8,200.00	0.00	0.00	8,115.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
8,400.00	0.00	0.00	8,315.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
8,600.00	0.00	0.00	8,515.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
8,800.00	0.00	0.00	8,715.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,000.00	0.00	0.00	8,915.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,057.26	0.00	0.00	8,973.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
Cameo Coals										
9,200.00	0.00	0.00	9,115.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,400.00	0.00	0.00	9,315.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,600.00	0.00	0.00	9,515.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,748.26	0.00	0.00	9,664.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
Coal D										
9,800.00	0.00	0.00	9,715.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
9,918.26	0.00	0.00	9,834.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
Rollins SS										
10,000.00	0.00	0.00	9,915.74	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
10,067.50	0.00	0.00	9,983.24	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
TD at 10068.26										
10,068.26	0.00	0.00	9,984.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	
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	7,234.00	-543.27	-911.12	1,598,288.90000	2,346,641.30000	39.45323	-107.81408	

Casing Points							Casing Diameter (in)	Hole Diameter (in)
Measured Depth (usft)	Vertical Depth (usft)	Name						
1,311.41	1,300.00	9 5/8"					9.625	13.500

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 334-7 - Slot A10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Project:	RU 07-07S-093W	MD Reference:	KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)
Site:	RU 44-7 Pad	North Reference:	True
Well:	RU 334-7	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 28May14 mab		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
3,836.91	3,792.00	Top of "G" Sand				
3,938.25	3,892.00	Base of "G" Sand				
6,319.85	6,242.00	Mesaverde				
7,318.26	7,234.00	Approx. Top Gas				
9,057.26	8,973.00	Cameo Coals				
9,748.26	9,664.00	Coal D				
9,918.26	9,834.00	Rollins SS				
10,068.26	9,984.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
140.00	140.00	0.00	0.00	Start Build 2.00	
607.13	605.06	-19.46	-32.64	Hold 9.34° Inc, 239.19° Az	
6,595.42	6,513.92	-517.32	-867.60	Begin Drop -1.50°/100	
7,218.26	7,134.00	-543.27	-911.12	Vertical	
7,318.26	7,234.00	-543.27	-911.12	Top Gas	
10,067.50	9,983.24	-543.27	-911.12	TD at 10068.26	