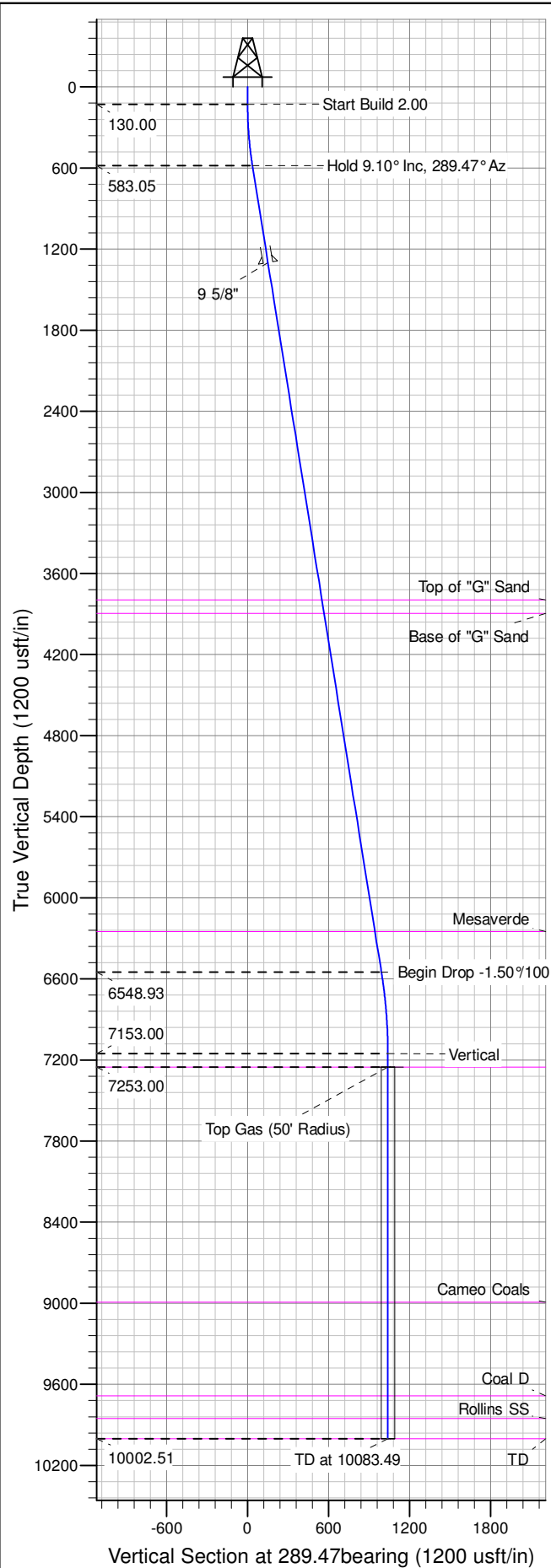
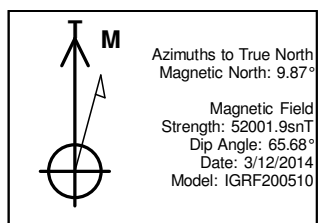
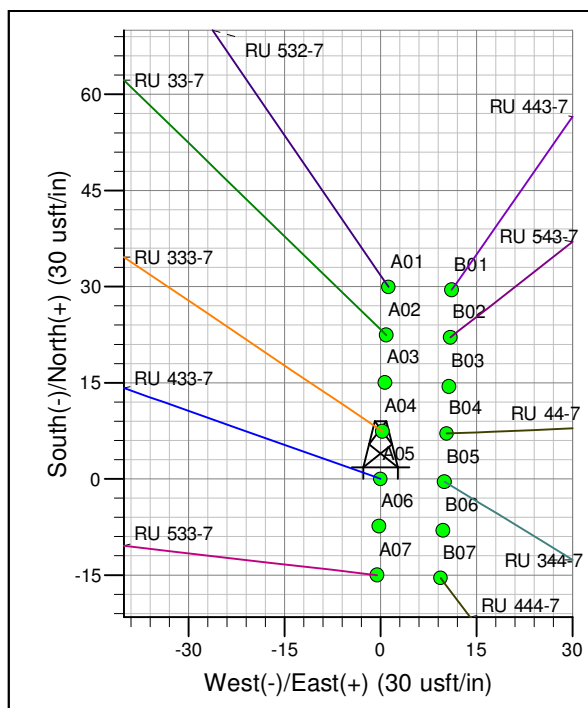
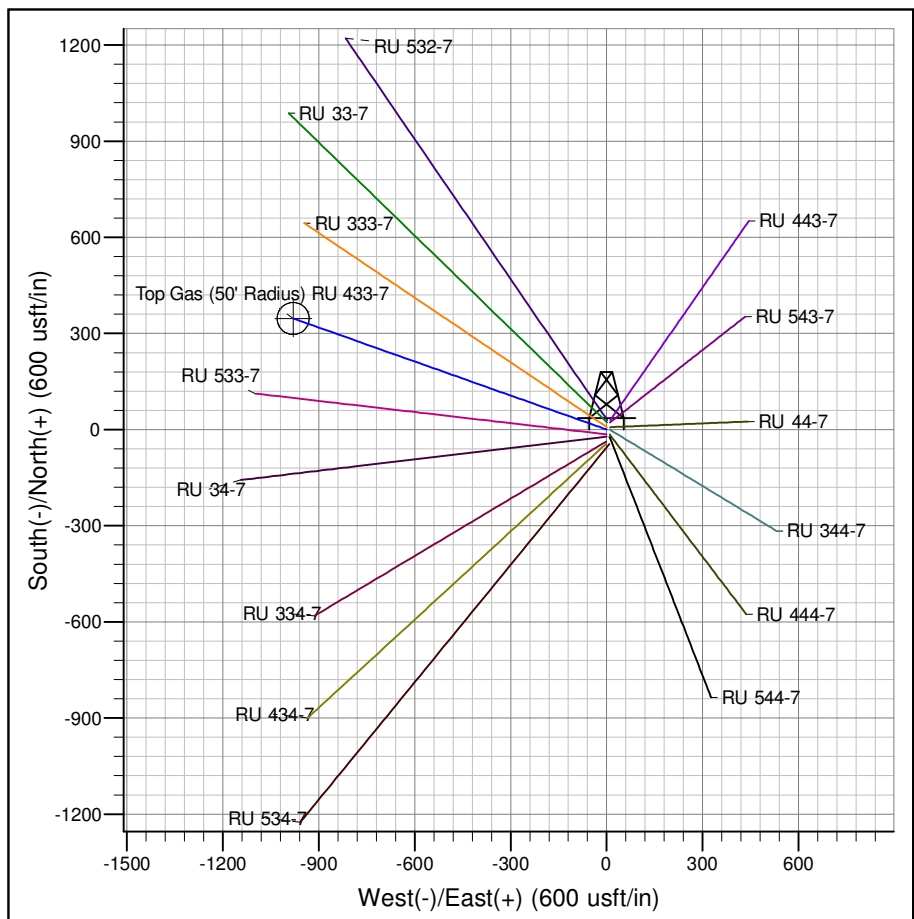




Well Name: RU 433-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598846.30000 2347568.30000 39.45482 -107.81084 A05
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
583.05	584.96	9.10	289.47	12.02	-33.99	36.05	36.05	Hold 9.10° Inc, 289.47° Az	
6548.93	6626.87	9.10	289.47	330.48	-934.85	991.55	991.55	Begin Drop -1.50°/100	
7153.00	7233.49	0.00	0.00	346.50	-980.17	1039.62	1039.62	Vertical	
7253.00	7333.49	0.00	0.00	346.50	-980.17	1039.62	1039.62	Top Gas	
10002.51	10083.00	0.00	0.00	346.50	-980.17	1039.62	1039.62	TD at 10083.49	



Azimuths to True North
Magnetic North: 9.87°
Magnetic Field
Strength: 52001.9snT
Dip Angle: 65.68°
Date: 3/12/2014
Model: IGRF200510
Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 433-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 433-7 - Slot A05

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 433-7 - Slot A05
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 433-7	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 433-7 - Slot A05			
Well Position	+N/-S	0.00 usft	Northing:	1,598,846.30000 usft
	+E/-W	0.00 usft	Easting:	2,347,568.30000 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	289.47

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	
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
584.96	9.10	289.47	583.05	12.02	-33.99	2.00	2.00	0.00	289.47	
6,626.87	9.10	289.47	6,548.93	330.48	-934.85	0.00	0.00	0.00	0.00	
7,233.49	0.00	0.00	7,153.00	346.50	-980.17	1.50	-1.50	0.00	180.00	
7,333.49	0.00	0.00	7,253.00	346.50	-980.17	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,083.49	0.00	0.00	10,003.00	346.50	-980.17	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 433-7 - Slot A05
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 433-7	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	1,598,846.30000	2,347,568.30000	39.45482	-107.81084	
130.00	0.00	0.00	130.00	0.00	0.00	1,598,846.30000	2,347,568.30000	39.45482	-107.81084	
Start Build 2.00										
200.00	1.40	289.47	199.99	0.29	-0.81	1,598,846.60542	2,347,567.50128	39.45482	-107.81085	
400.00	5.40	289.47	399.60	4.24	-11.99	1,598,850.84083	2,347,556.42512	39.45483	-107.81089	
584.96	9.10	289.47	583.05	12.02	-33.99	1,598,859.17557	2,347,534.62863	39.45486	-107.81096	
Hold 9.10° Inc, 289.47° Az										
600.00	9.10	289.47	597.90	12.81	-36.23	1,598,860.02494	2,347,532.40741	39.45486	-107.81097	
800.00	9.10	289.47	795.38	23.35	-66.05	1,598,871.32127	2,347,502.86598	39.45489	-107.81108	
1,000.00	9.10	289.47	992.87	33.89	-95.87	1,598,882.61760	2,347,473.32455	39.45492	-107.81118	
1,200.00	9.10	289.47	1,190.35	44.43	-125.69	1,598,893.91392	2,347,443.78312	39.45494	-107.81129	
1,311.05	9.10	289.47	1,300.00	50.29	-142.25	1,598,900.18605	2,347,427.38066	39.45496	-107.81135	
9 5/8"										
1,400.00	9.10	289.47	1,387.83	54.98	-155.51	1,598,905.21025	2,347,414.24168	39.45497	-107.81139	
1,600.00	9.10	289.47	1,585.32	65.52	-185.33	1,598,916.50658	2,347,384.70025	39.45500	-107.81150	
1,800.00	9.10	289.47	1,782.80	76.06	-215.15	1,598,927.80291	2,347,355.15882	39.45503	-107.81161	
2,000.00	9.10	289.47	1,980.28	86.60	-244.98	1,598,939.09923	2,347,325.61739	39.45506	-107.81171	
2,200.00	9.10	289.47	2,177.77	97.14	-274.80	1,598,950.39556	2,347,296.07595	39.45509	-107.81182	
2,400.00	9.10	289.47	2,375.25	107.68	-304.62	1,598,961.69189	2,347,266.53452	39.45512	-107.81192	
2,600.00	9.10	289.47	2,572.73	118.23	-334.44	1,598,972.98822	2,347,236.99309	39.45515	-107.81203	
2,800.00	9.10	289.47	2,770.22	128.77	-364.26	1,598,984.28454	2,347,207.45166	39.45518	-107.81213	
3,000.00	9.10	289.47	2,967.70	139.31	-394.08	1,598,995.58087	2,347,177.91023	39.45520	-107.81224	
3,200.00	9.10	289.47	3,165.18	149.85	-423.90	1,599,006.87720	2,347,148.36880	39.45523	-107.81235	
3,400.00	9.10	289.47	3,362.67	160.39	-453.72	1,599,018.17353	2,347,118.82737	39.45526	-107.81245	
3,600.00	9.10	289.47	3,560.15	170.94	-483.54	1,599,029.46985	2,347,089.28594	39.45529	-107.81256	
3,800.00	9.10	289.47	3,757.63	181.48	-513.36	1,599,040.76617	2,347,059.74450	39.45532	-107.81266	
3,837.84	9.10	289.47	3,795.00	183.47	-519.00	1,599,042.90370	2,347,054.15458	39.45533	-107.81268	
Top of "G" Sand										
3,939.12	9.10	289.47	3,895.00	188.81	-534.10	1,599,048.62384	2,347,039.19562	39.45534	-107.81274	
Base of "G" Sand										
4,000.00	9.10	289.47	3,955.11	192.02	-543.18	1,599,052.06250	2,347,030.20307	39.45535	-107.81277	
4,200.00	9.10	289.47	4,152.60	202.56	-573.00	1,599,063.35883	2,347,000.66164	39.45538	-107.81287	
4,400.00	9.10	289.47	4,350.08	213.10	-602.82	1,599,074.65515	2,346,971.12021	39.45541	-107.81298	
4,600.00	9.10	289.47	4,547.56	223.64	-632.64	1,599,085.95148	2,346,941.57877	39.45544	-107.81308	
4,800.00	9.10	289.47	4,745.05	234.19	-662.46	1,599,097.24781	2,346,912.03734	39.45547	-107.81319	
5,000.00	9.10	289.47	4,942.53	244.73	-692.28	1,599,108.54414	2,346,882.49591	39.45549	-107.81330	
5,200.00	9.10	289.47	5,140.01	255.27	-722.10	1,599,119.84046	2,346,852.95447	39.45552	-107.81340	
5,400.00	9.10	289.47	5,337.50	265.81	-751.92	1,599,131.13679	2,346,823.41304	39.45555	-107.81351	
5,600.00	9.10	289.47	5,534.98	276.35	-781.74	1,599,142.43312	2,346,793.87161	39.45558	-107.81361	
5,800.00	9.10	289.47	5,732.46	286.89	-811.57	1,599,153.72945	2,346,764.33019	39.45561	-107.81372	
6,000.00	9.10	289.47	5,929.95	297.44	-841.39	1,599,165.02577	2,346,734.78875	39.45564	-107.81382	
6,200.00	9.10	289.47	6,127.43	307.98	-871.21	1,599,176.32210	2,346,705.24732	39.45567	-107.81393	
6,323.12	9.10	289.47	6,249.00	314.47	-889.56	1,599,183.27609	2,346,687.06168	39.45569	-107.81399	
Mesaverde										
6,400.00	9.10	289.47	6,324.91	318.52	-901.03	1,599,187.61843	2,346,675.70589	39.45570	-107.81404	
6,600.00	9.10	289.47	6,522.40	329.06	-930.85	1,599,198.91475	2,346,646.16446	39.45573	-107.81414	
6,626.87	9.10	289.47	6,548.93	330.48	-934.85	1,599,200.43257	2,346,642.19517	39.45573	-107.81415	
Begin Drop -1.50°/100										
6,800.00	6.50	289.47	6,720.44	338.31	-957.01	1,599,208.82434	2,346,620.24955	39.45575	-107.81423	
7,000.00	3.50	289.47	6,919.66	344.12	-973.45	1,599,215.05207	2,346,603.96318	39.45577	-107.81429	
7,200.00	0.50	289.47	7,119.51	346.45	-980.04	1,599,217.54757	2,346,597.43711	39.45577	-107.81431	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 433-7 - Slot A05
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 433-7	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
7,233.49	0.00	0.00	7,153.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
Vertical									
7,333.49	0.00	0.00	7,253.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
Top Gas - Approx. Top Gas									
7,400.00	0.00	0.00	7,319.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
7,600.00	0.00	0.00	7,519.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
7,800.00	0.00	0.00	7,719.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
8,000.00	0.00	0.00	7,919.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
8,200.00	0.00	0.00	8,119.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
8,400.00	0.00	0.00	8,319.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
8,600.00	0.00	0.00	8,519.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
8,800.00	0.00	0.00	8,719.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,000.00	0.00	0.00	8,919.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,073.49	0.00	0.00	8,993.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
Cameo Coals									
9,200.00	0.00	0.00	9,119.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,400.00	0.00	0.00	9,319.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,600.00	0.00	0.00	9,519.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,765.49	0.00	0.00	9,685.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
Coal D									
9,800.00	0.00	0.00	9,719.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
9,933.49	0.00	0.00	9,853.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
Rollins SS									
10,000.00	0.00	0.00	9,919.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
10,083.00	0.00	0.00	10,002.51	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
TD at 10083.49									
10,083.49	0.00	0.00	10,003.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432
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	7,253.00	346.50	-980.17	1,599,217.60000	2,346,597.30000	39.45577	-107.81432

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,311.05	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 433-7 - Slot A05
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 433-7	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)
	3,837.84	3,795.00	Top of "G" Sand			
	3,939.12	3,895.00	Base of "G" Sand			
	6,323.12	6,249.00	Mesaverde			
	7,333.49	7,253.00	Approx. Top Gas			
	9,073.49	8,993.00	Cameo Coals			
	9,765.49	9,685.00	Coal D			
	9,933.49	9,853.00	Rollins SS			
	10,083.49	10,003.00	TD			

Plan Annotations					
	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
			+N/-S (usft)	+E/-W (usft)	Comment
	130.00	130.00	0.00	0.00	Start Build 2.00
	584.96	583.05	12.02	-33.99	Hold 9.10° Inc, 289.47° Az
	6,626.87	6,548.93	330.48	-934.85	Begin Drop -1.50°/100
	7,233.49	7,153.00	346.50	-980.17	Vertical
	7,333.49	7,253.00	346.50	-980.17	Top Gas
	10,083.00	10,002.51	346.50	-980.17	TD at 10083.49