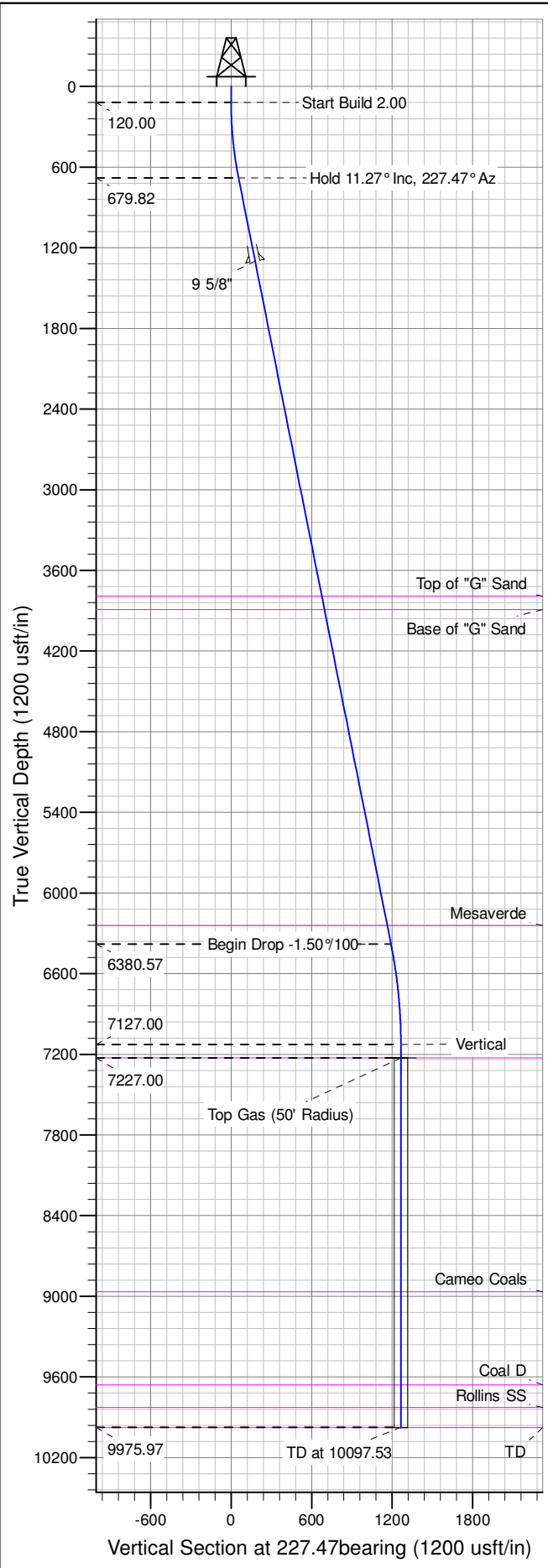
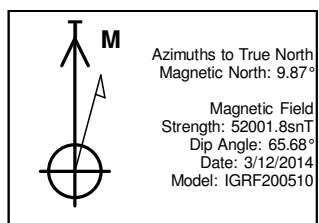
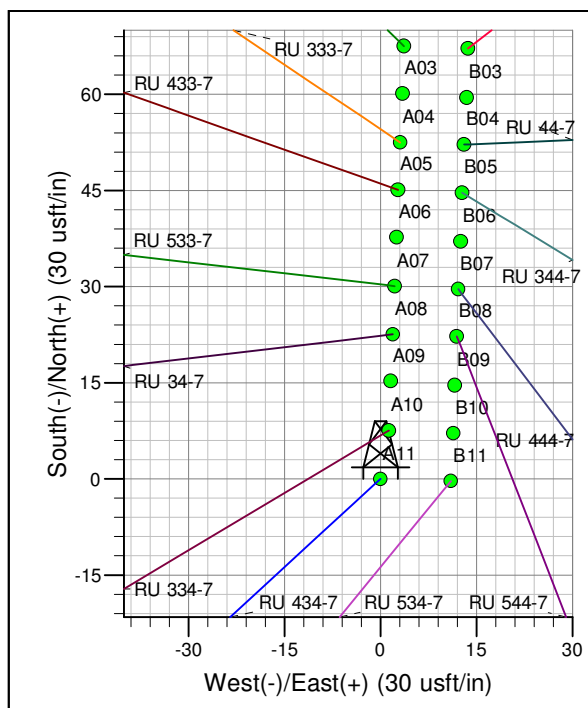
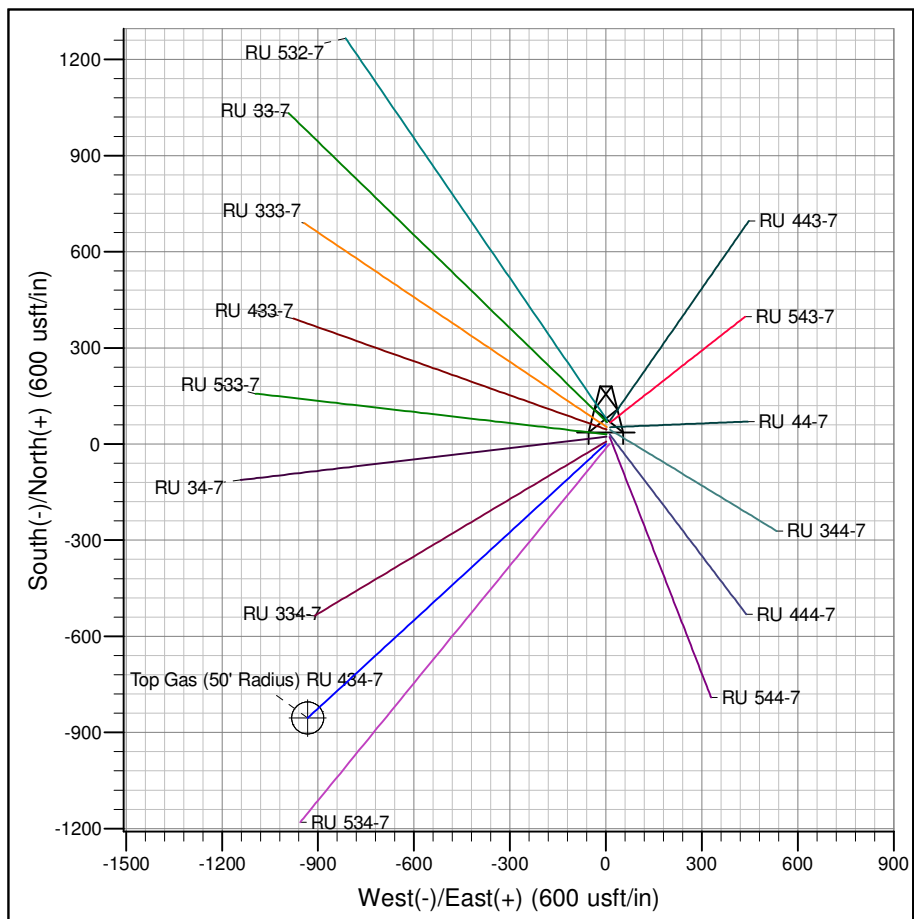




Well Name: RU 434-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598801.30000 2347564.40000 39.45470 -107.81085 A11
KELLY BUSHING @ 7943.00usft (Nabors 576 (26' RKB) kjs)



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 2.00	
679.82	683.45	11.27	227.47	-37.34	-40.70	55.23	55.23	Hold 11.27° Inc, 227.47° Az	
6380.57	6496.26	11.27	227.47	-805.24	-877.73	1191.14	1191.14	Begin Drop -1.50°/100	
7127.00	7247.53	0.00	0.00	-855.02	-932.00	1264.78	1264.78	Vertical	
7227.00	7347.53	0.00	0.00	-855.02	-932.00	1264.78	1264.78	Top Gas	
9975.97	10096.50	0.00	0.00	-855.02	-932.00	1264.78	1264.78	TD at 10097.53	



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 434-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 434-7 - Slot A11

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 434-7 - Slot A11
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 434-7	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 434-7 - Slot A11			
Well Position	+N/-S	0.00 usft	Northing:	1,598,801.30000 usft
	+E/-W	0.00 usft	Easting:	2,347,564.40000 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	227.47

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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
683.45	11.27	227.47	679.82	-37.34	-40.70	2.00	2.00	0.00	227.47	
6,496.26	11.27	227.47	6,380.57	-805.24	-877.73	0.00	0.00	0.00	0.00	
7,247.53	0.00	0.00	7,127.00	-855.02	-932.00	1.50	-1.50	0.00	180.00	
7,347.53	0.00	0.00	7,227.00	-855.02	-932.00	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
10,097.53	0.00	0.00	9,977.00	-855.02	-932.00	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 434-7 - Slot A11
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 434-7	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	1,598,801.30000	2,347,564.40000	39.45470	-107.81085	
120.00	0.00	0.00	120.00	0.00	0.00	1,598,801.30000	2,347,564.40000	39.45470	-107.81085	
Start Build 2.00										
200.00	1.60	227.47	199.99	-0.76	-0.82	1,598,800.56614	2,347,563.55805	39.45470	-107.81086	
400.00	5.60	227.47	399.55	-9.24	-10.08	1,598,792.31677	2,347,554.09361	39.45467	-107.81089	
600.00	9.60	227.47	597.76	-27.12	-29.56	1,598,774.94103	2,347,534.15855	39.45462	-107.81096	
683.45	11.27	227.47	679.82	-37.34	-40.70	1,598,765.01146	2,347,522.76644	39.45460	-107.81100	
Hold 11.27° Inc, 227.47° Az										
800.00	11.27	227.47	794.13	-52.73	-57.48	1,598,750.04696	2,347,505.59778	39.45455	-107.81106	
1,000.00	11.27	227.47	990.27	-79.16	-86.28	1,598,724.36829	2,347,476.13684	39.45448	-107.81116	
1,200.00	11.27	227.47	1,186.42	-105.58	-115.08	1,598,698.68962	2,347,446.67589	39.45441	-107.81126	
1,315.82	11.27	227.47	1,300.00	-120.88	-131.76	1,598,683.81945	2,347,429.61546	39.45437	-107.81132	
9 5/8"										
1,400.00	11.27	227.47	1,382.56	-132.00	-143.88	1,598,673.01095	2,347,417.21495	39.45434	-107.81136	
1,600.00	11.27	227.47	1,578.70	-158.42	-172.68	1,598,647.33228	2,347,387.75401	39.45426	-107.81147	
1,800.00	11.27	227.47	1,774.85	-184.84	-201.48	1,598,621.65362	2,347,358.29307	39.45419	-107.81157	
2,000.00	11.27	227.47	1,970.99	-211.26	-230.28	1,598,595.97495	2,347,328.83213	39.45412	-107.81167	
2,200.00	11.27	227.47	2,167.14	-237.68	-259.08	1,598,570.29629	2,347,299.37118	39.45405	-107.81177	
2,400.00	11.27	227.47	2,363.28	-264.10	-287.88	1,598,544.61762	2,347,269.91024	39.45397	-107.81187	
2,600.00	11.27	227.47	2,559.42	-290.52	-316.68	1,598,518.93895	2,347,240.44930	39.45390	-107.81198	
2,800.00	11.27	227.47	2,755.57	-316.94	-345.48	1,598,493.26028	2,347,210.98836	39.45383	-107.81208	
3,000.00	11.27	227.47	2,951.71	-343.36	-374.28	1,598,467.58161	2,347,181.52743	39.45376	-107.81218	
3,200.00	11.27	227.47	3,147.86	-369.78	-403.08	1,598,441.90294	2,347,152.06648	39.45368	-107.81228	
3,400.00	11.27	227.47	3,344.00	-396.21	-431.88	1,598,416.22427	2,347,122.60554	39.45361	-107.81238	
3,600.00	11.27	227.47	3,540.15	-422.63	-460.68	1,598,390.54560	2,347,093.14460	39.45354	-107.81249	
3,800.00	11.27	227.47	3,736.29	-449.05	-489.48	1,598,364.86694	2,347,063.68366	39.45347	-107.81259	
3,855.79	11.27	227.47	3,791.00	-456.42	-497.51	1,598,357.70436	2,347,055.46609	39.45345	-107.81262	
Top of "G" Sand										
3,957.75	11.27	227.47	3,891.00	-469.89	-512.19	1,598,344.61263	2,347,040.44604	39.45341	-107.81267	
Base of "G" Sand										
4,000.00	11.27	227.47	3,932.43	-475.47	-518.28	1,598,339.18827	2,347,034.22272	39.45339	-107.81269	
4,200.00	11.27	227.47	4,128.58	-501.89	-547.08	1,598,313.50960	2,347,004.76177	39.45332	-107.81279	
4,400.00	11.27	227.47	4,324.72	-528.31	-575.87	1,598,287.83093	2,346,975.30083	39.45325	-107.81289	
4,600.00	11.27	227.47	4,520.87	-554.73	-604.67	1,598,262.15226	2,346,945.83989	39.45318	-107.81300	
4,800.00	11.27	227.47	4,717.01	-581.15	-633.47	1,598,236.47360	2,346,916.37895	39.45310	-107.81310	
5,000.00	11.27	227.47	4,913.15	-607.57	-662.27	1,598,210.79493	2,346,886.91801	39.45303	-107.81320	
5,200.00	11.27	227.47	5,109.30	-633.99	-691.07	1,598,185.11627	2,346,857.45706	39.45296	-107.81330	
5,400.00	11.27	227.47	5,305.44	-660.41	-719.87	1,598,159.43760	2,346,827.99612	39.45289	-107.81340	
5,600.00	11.27	227.47	5,501.59	-686.84	-748.67	1,598,133.75893	2,346,798.53518	39.45281	-107.81351	
5,800.00	11.27	227.47	5,697.73	-713.26	-777.47	1,598,108.08026	2,346,769.07425	39.45274	-107.81361	
6,000.00	11.27	227.47	5,893.87	-739.68	-806.27	1,598,082.40159	2,346,739.61331	39.45267	-107.81371	
6,200.00	11.27	227.47	6,090.02	-766.10	-835.07	1,598,056.72292	2,346,710.15237	39.45260	-107.81381	
6,354.97	11.27	227.47	6,242.00	-786.57	-857.39	1,598,036.82596	2,346,687.32474	39.45254	-107.81389	
Mesaverde										
6,400.00	11.27	227.47	6,286.16	-792.52	-863.87	1,598,031.04425	2,346,680.69142	39.45252	-107.81391	
6,496.26	11.27	227.47	6,380.57	-805.24	-877.73	1,598,018.68472	2,346,666.51142	39.45249	-107.81396	
Begin Drop -1.50°/100										
6,600.00	9.71	227.47	6,482.57	-818.00	-891.65	1,598,006.27485	2,346,652.27368	39.45245	-107.81401	
6,800.00	6.71	227.47	6,680.50	-837.32	-912.70	1,597,987.50542	2,346,630.73965	39.45240	-107.81409	
7,000.00	3.71	227.47	6,879.65	-849.60	-926.09	1,597,975.56765	2,346,617.04353	39.45237	-107.81413	
7,200.00	0.71	227.47	7,079.47	-854.82	-931.78	1,597,970.49427	2,346,611.22288	39.45235	-107.81415	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 434-7 - Slot A11
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 434-7	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
7,247.53	0.00	0.00	7,127.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
Vertical									
7,347.53	0.00	0.00	7,227.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
Top Gas - Approx. Top Gas									
7,400.00	0.00	0.00	7,279.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
7,600.00	0.00	0.00	7,479.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
7,800.00	0.00	0.00	7,679.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
8,000.00	0.00	0.00	7,879.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
8,200.00	0.00	0.00	8,079.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
8,400.00	0.00	0.00	8,279.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
8,600.00	0.00	0.00	8,479.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
8,800.00	0.00	0.00	8,679.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,000.00	0.00	0.00	8,879.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,086.53	0.00	0.00	8,966.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
Cameo Coals									
9,200.00	0.00	0.00	9,079.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,400.00	0.00	0.00	9,279.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,600.00	0.00	0.00	9,479.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,779.53	0.00	0.00	9,659.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
Coal D									
9,800.00	0.00	0.00	9,679.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
9,947.53	0.00	0.00	9,827.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
Rollins SS									
10,000.00	0.00	0.00	9,879.47	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
10,096.50	0.00	0.00	9,975.97	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
TD at 10097.53									
10,097.53	0.00	0.00	9,977.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415
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	7,227.00	-855.02	-932.00	1,597,970.30000	2,346,611.00000	39.45235	-107.81415

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,315.82	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 434-7 - Slot A11
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 434-7	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)
	3,855.79	3,791.00	Top of "G" Sand			
	3,957.75	3,891.00	Base of "G" Sand			
	6,354.97	6,242.00	Mesaverde			
	7,347.53	7,227.00	Approx. Top Gas			
	9,086.53	8,966.00	Cameo Coals			
	9,779.53	9,659.00	Coal D			
	9,947.53	9,827.00	Rollins SS			
	10,097.53	9,977.00	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 2.00
	683.45	679.82	-37.34	-40.70	Hold 11.27° Inc, 227.47° Az
	6,496.26	6,380.57	-805.24	-877.73	Begin Drop -1.50°/100
	7,247.53	7,127.00	-855.02	-932.00	Vertical
	7,347.53	7,227.00	-855.02	-932.00	Top Gas
	10,096.50	9,975.97	-855.02	-932.00	TD at 10097.53