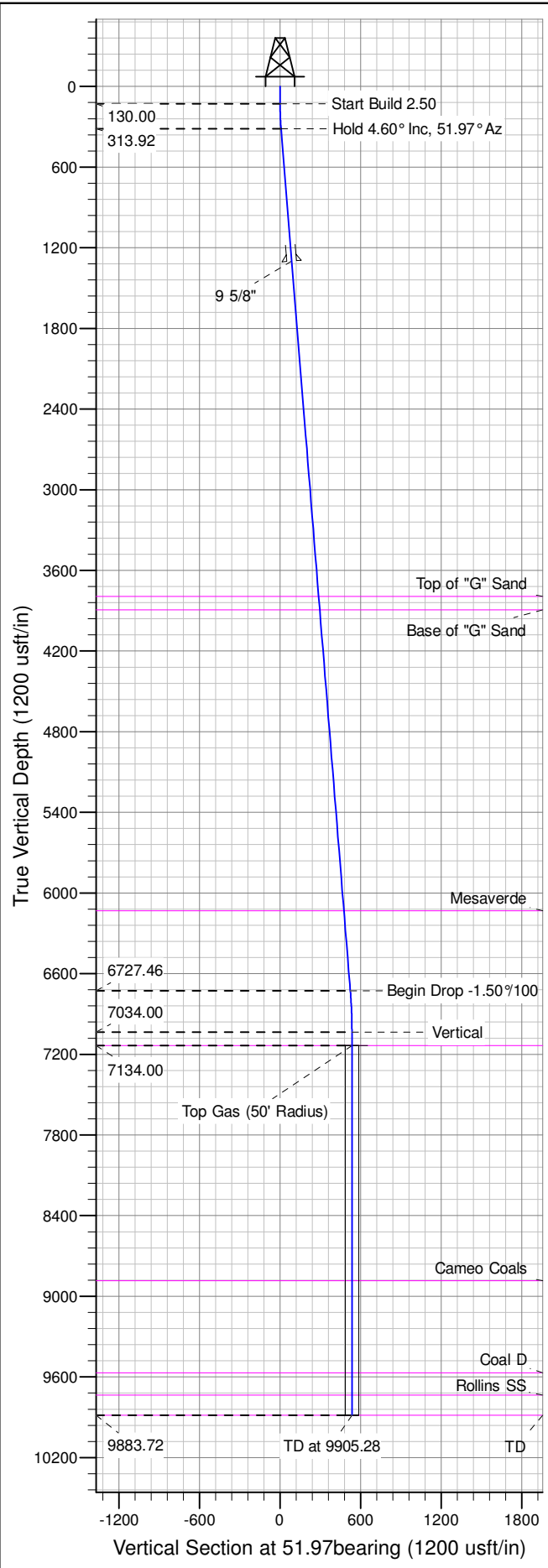
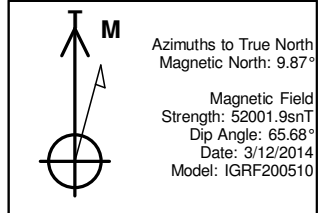
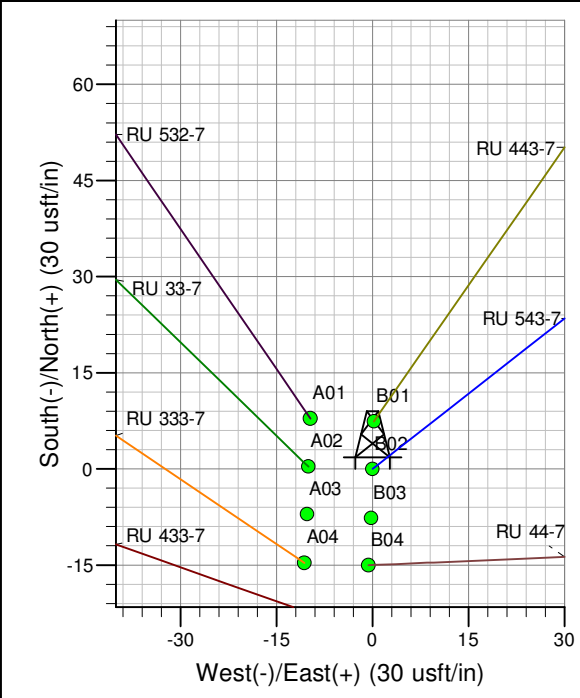
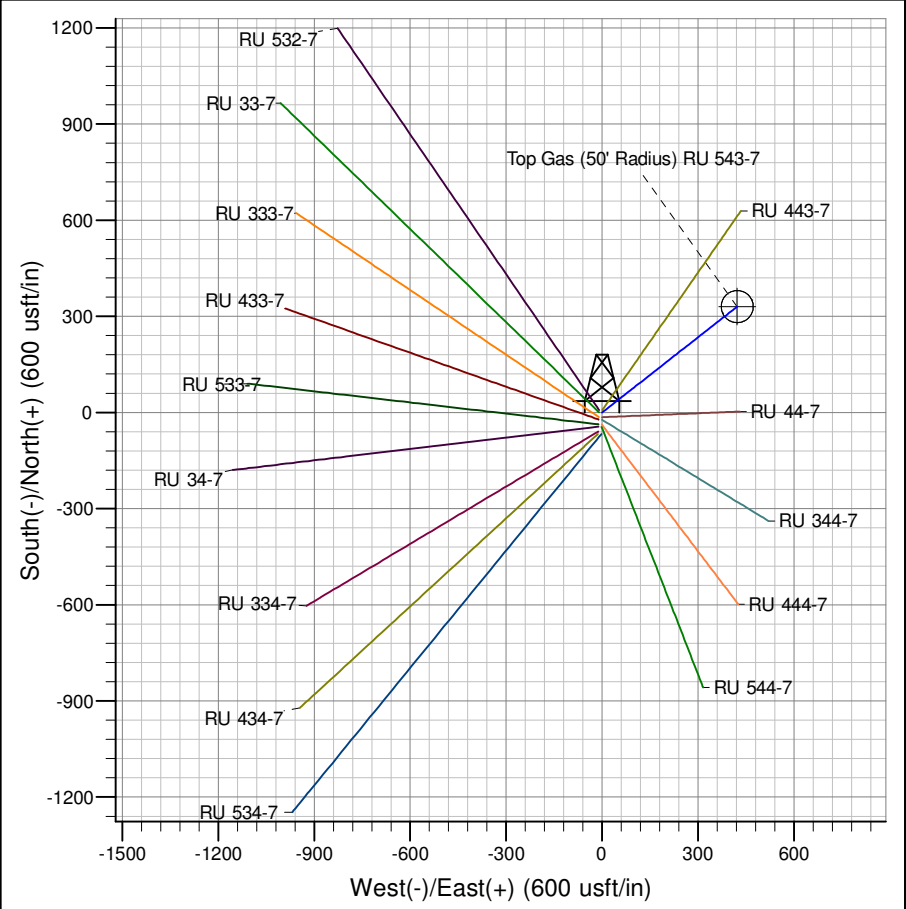




Well Name: RU 543-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598868.10000 2347579.80000 39.45488 -107.81080 B02
KELLY BUSHING @ 7943.00usft (Nabors 576 (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 2.50	
313.92	314.12	4.60	51.97	4.55	5.82	7.39	7.39	Hold 4.60° Inc, 51.97° Az	
6727.46	6748.41	4.60	51.97	322.67	412.55	523.75	523.75	Begin Drop -1.50%/100	
7034.00	7055.28	0.00	0.00	330.26	422.26	536.07	536.07	Vertical	
7134.00	7155.28	0.00	0.00	330.26	422.26	536.07	536.07	Top Gas	
9883.72	9905.00	0.00	0.00	330.26	422.26	536.07	536.07	TD at 9905.28	



Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 543-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 543-7 - Slot B02

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 543-7 - Slot B02
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 543-7	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 543-7 - Slot B02			
Well Position	+N/-S	0.00 usft	Northing:	1,598,868.10000 usft
	+E/-W	0.00 usft	Easting:	2,347,579.80000 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	51.97

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	
314.12	4.60	51.97	313.92	4.55	5.82	2.50	2.50	0.00	51.97	
6,748.41	4.60	51.97	6,727.46	322.67	412.55	0.00	0.00	0.00	0.00	
7,055.28	0.00	0.00	7,034.00	330.26	422.26	1.50	-1.50	0.00	180.00	
7,155.28	0.00	0.00	7,134.00	330.26	422.26	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,905.28	0.00	0.00	9,884.00	330.26	422.26	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 543-7 - Slot B02
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 543-7	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	1,598,868.10000	2,347,579.80000	39.45488	-107.81081	
130.00	0.00	0.00	130.00	0.00	0.00	1,598,868.10000	2,347,579.80000	39.45488	-107.81081	
Start Build 2.50										
200.00	1.75	51.97	199.99	0.66	0.84	1,598,868.73689	2,347,580.65843	39.45488	-107.81080	
314.12	4.60	51.97	313.92	4.55	5.82	1,598,872.50422	2,347,585.73617	39.45490	-107.81078	
Hold 4.60° Inc, 51.97° Az										
400.00	4.60	51.97	399.53	8.80	11.25	1,598,876.61056	2,347,591.27086	39.45491	-107.81077	
600.00	4.60	51.97	598.88	18.69	23.89	1,598,886.17355	2,347,604.16024	39.45493	-107.81072	
800.00	4.60	51.97	798.23	28.58	36.54	1,598,895.73654	2,347,617.04962	39.45496	-107.81068	
1,000.00	4.60	51.97	997.59	38.46	49.18	1,598,905.29953	2,347,629.93900	39.45499	-107.81063	
1,200.00	4.60	51.97	1,196.94	48.35	61.82	1,598,914.86252	2,347,642.82837	39.45502	-107.81059	
1,303.39	4.60	51.97	1,300.00	53.46	68.36	1,598,919.80604	2,347,649.49145	39.45503	-107.81056	
9 5/8"										
1,400.00	4.60	51.97	1,396.30	58.24	74.46	1,598,924.42551	2,347,655.71775	39.45504	-107.81054	
1,600.00	4.60	51.97	1,595.65	68.13	87.11	1,598,933.98850	2,347,668.60713	39.45507	-107.81050	
1,800.00	4.60	51.97	1,795.01	78.02	99.75	1,598,943.55149	2,347,681.49651	39.45510	-107.81045	
2,000.00	4.60	51.97	1,994.36	87.91	112.39	1,598,953.11448	2,347,694.38588	39.45512	-107.81041	
2,200.00	4.60	51.97	2,193.72	97.79	125.03	1,598,962.67747	2,347,707.27526	39.45515	-107.81036	
2,400.00	4.60	51.97	2,393.07	107.68	137.68	1,598,972.24046	2,347,720.16464	39.45518	-107.81032	
2,600.00	4.60	51.97	2,592.43	117.57	150.32	1,598,981.80345	2,347,733.05402	39.45521	-107.81027	
2,800.00	4.60	51.97	2,791.78	127.46	162.96	1,598,991.36644	2,347,745.94339	39.45523	-107.81023	
3,000.00	4.60	51.97	2,991.14	137.35	175.60	1,599,000.92943	2,347,758.83277	39.45526	-107.81018	
3,200.00	4.60	51.97	3,190.49	147.23	188.25	1,599,010.49242	2,347,771.72215	39.45529	-107.81014	
3,400.00	4.60	51.97	3,389.85	157.12	200.89	1,599,020.05541	2,347,784.61153	39.45531	-107.81009	
3,600.00	4.60	51.97	3,589.20	167.01	213.53	1,599,029.61840	2,347,797.50090	39.45534	-107.81005	
3,800.00	4.60	51.97	3,788.56	176.90	226.17	1,599,039.18138	2,347,810.39028	39.45537	-107.81000	
3,804.46	4.60	51.97	3,793.00	177.12	226.46	1,599,039.39442	2,347,810.67742	39.45537	-107.81000	
Top of "G" Sand										
3,904.78	4.60	51.97	3,893.00	182.08	232.80	1,599,044.19138	2,347,817.14297	39.45538	-107.80998	
Base of "G" Sand										
4,000.00	4.60	51.97	3,987.91	186.79	238.82	1,599,048.74437	2,347,823.27966	39.45540	-107.80996	
4,200.00	4.60	51.97	4,187.27	196.68	251.46	1,599,058.30736	2,347,836.16904	39.45542	-107.80991	
4,400.00	4.60	51.97	4,386.62	206.56	264.10	1,599,067.87035	2,347,849.05842	39.45545	-107.80987	
4,600.00	4.60	51.97	4,585.98	216.45	276.74	1,599,077.43334	2,347,861.94779	39.45548	-107.80983	
4,800.00	4.60	51.97	4,785.33	226.34	289.39	1,599,086.99633	2,347,874.83717	39.45550	-107.80978	
5,000.00	4.60	51.97	4,984.69	236.23	302.03	1,599,096.55932	2,347,887.72655	39.45553	-107.80974	
5,200.00	4.60	51.97	5,184.04	246.12	314.67	1,599,106.12231	2,347,900.61593	39.45556	-107.80969	
5,400.00	4.60	51.97	5,383.40	256.00	327.32	1,599,115.68530	2,347,913.50530	39.45559	-107.80965	
5,600.00	4.60	51.97	5,582.75	265.89	339.96	1,599,125.24829	2,347,926.39468	39.45561	-107.80960	
5,800.00	4.60	51.97	5,782.11	275.78	352.60	1,599,134.81128	2,347,939.28406	39.45564	-107.80956	
6,000.00	4.60	51.97	5,981.46	285.67	365.24	1,599,144.37427	2,347,952.17344	39.45567	-107.80951	
6,151.02	4.60	51.97	6,132.00	293.14	374.79	1,599,151.59547	2,347,961.90646	39.45569	-107.80948	
Mesaverde										
6,200.00	4.60	51.97	6,180.82	295.56	377.89	1,599,153.93726	2,347,965.06281	39.45569	-107.80947	
6,400.00	4.60	51.97	6,380.17	305.44	390.53	1,599,163.50025	2,347,977.95219	39.45572	-107.80942	
6,600.00	4.60	51.97	6,579.53	315.33	403.17	1,599,173.06324	2,347,990.84156	39.45575	-107.80938	
6,748.41	4.60	51.97	6,727.46	322.67	412.55	1,599,180.15964	2,348,000.40637	39.45577	-107.80934	
Begin Drop -1.50°/100										
6,800.00	3.83	51.97	6,778.91	325.01	415.54	1,599,182.41928	2,348,003.45200	39.45578	-107.80933	
7,000.00	0.83	51.97	6,978.72	330.01	421.94	1,599,187.26166	2,348,009.97876	39.45579	-107.80931	
7,055.28	0.00	0.00	7,034.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931	
Vertical										

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 543-7 - Slot B02
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 543-7	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
7,155.28	0.00	0.00	7,134.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
Top Gas - Approx. Top Gas									
7,200.00	0.00	0.00	7,178.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
7,400.00	0.00	0.00	7,378.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
7,600.00	0.00	0.00	7,578.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
7,800.00	0.00	0.00	7,778.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,000.00	0.00	0.00	7,978.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,200.00	0.00	0.00	8,178.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,400.00	0.00	0.00	8,378.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,600.00	0.00	0.00	8,578.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,800.00	0.00	0.00	8,778.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
8,905.28	0.00	0.00	8,884.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
Cameo Coals									
9,000.00	0.00	0.00	8,978.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
9,200.00	0.00	0.00	9,178.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
9,400.00	0.00	0.00	9,378.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
9,590.28	0.00	0.00	9,569.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
Coal D									
9,600.00	0.00	0.00	9,578.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
9,755.28	0.00	0.00	9,734.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
Rollins SS									
9,800.00	0.00	0.00	9,778.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
9,905.00	0.00	0.00	9,883.72	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
TD at 9905.28									
9,905.28	0.00	0.00	9,884.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931

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	0.00	0.00	7,134.00	330.26	422.26	1,599,187.50000	2,348,010.30000	39.45579	-107.80931
- hit/miss target									
- Shape									
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,303.39	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 543-7 - Slot B02
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 543-7	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)	
3,804.46	3,793.00	Top of "G" Sand				
3,904.78	3,893.00	Base of "G" Sand				
6,151.02	6,132.00	Mesaverde				
7,155.28	7,134.00	Approx. Top Gas				
8,905.28	8,884.00	Cameo Coals				
9,590.28	9,569.00	Coal D				
9,755.28	9,734.00	Rollins SS				

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 2.50	
314.12	313.92	4.55	5.82	Hold 4.60° Inc, 51.97° Az	
6,748.41	6,727.46	322.67	412.55	Begin Drop -1.50°/100	
7,055.28	7,034.00	330.26	422.26	Vertical	
7,155.28	7,134.00	330.26	422.26	Top Gas	
9,905.00	9,883.72	330.26	422.26	TD at 9905.28	