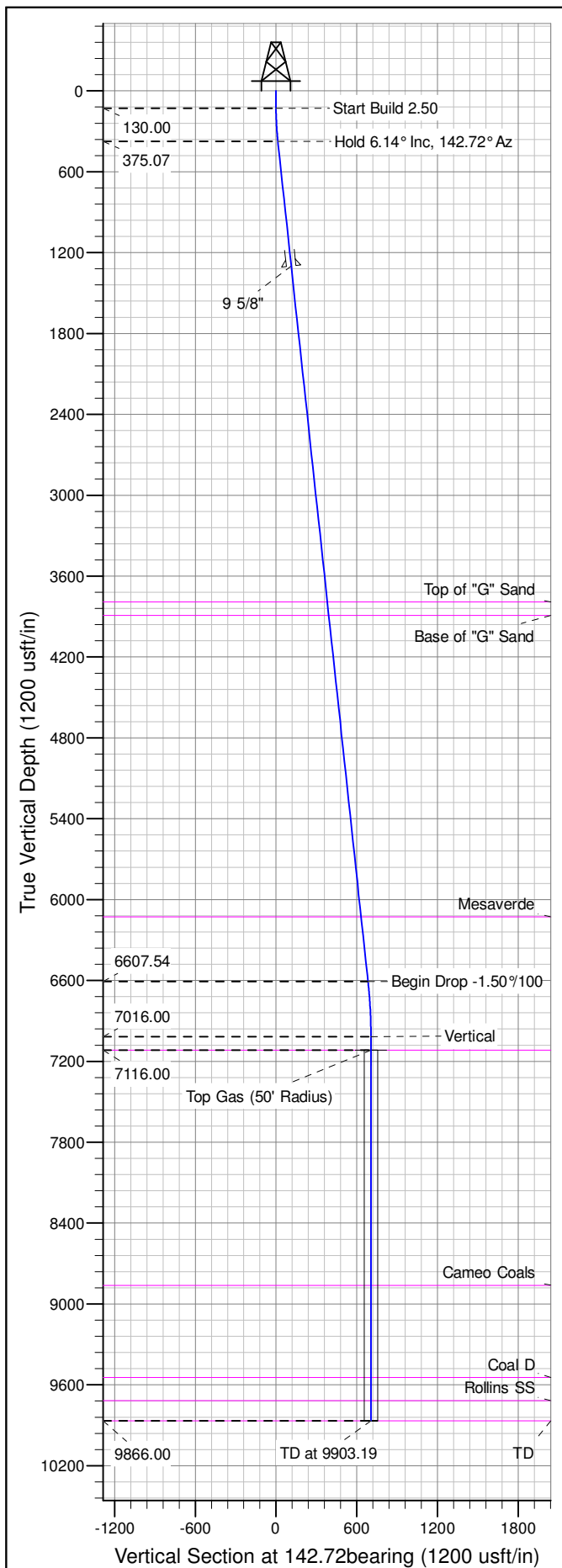
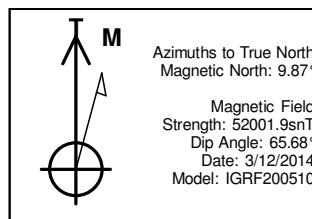
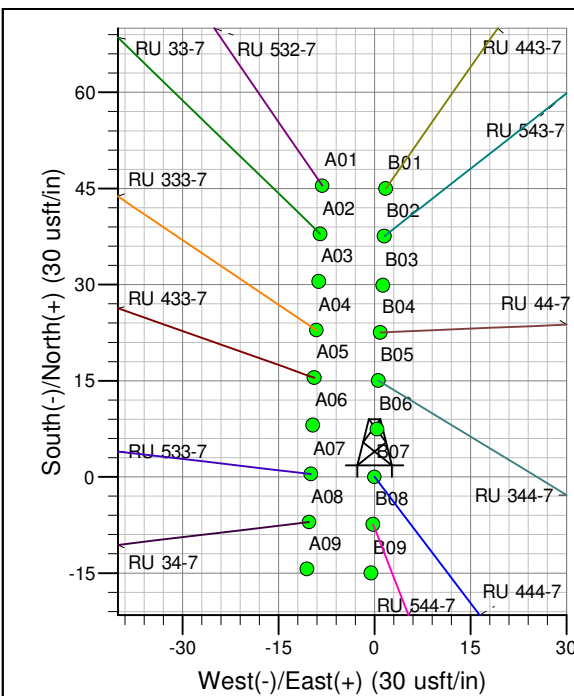
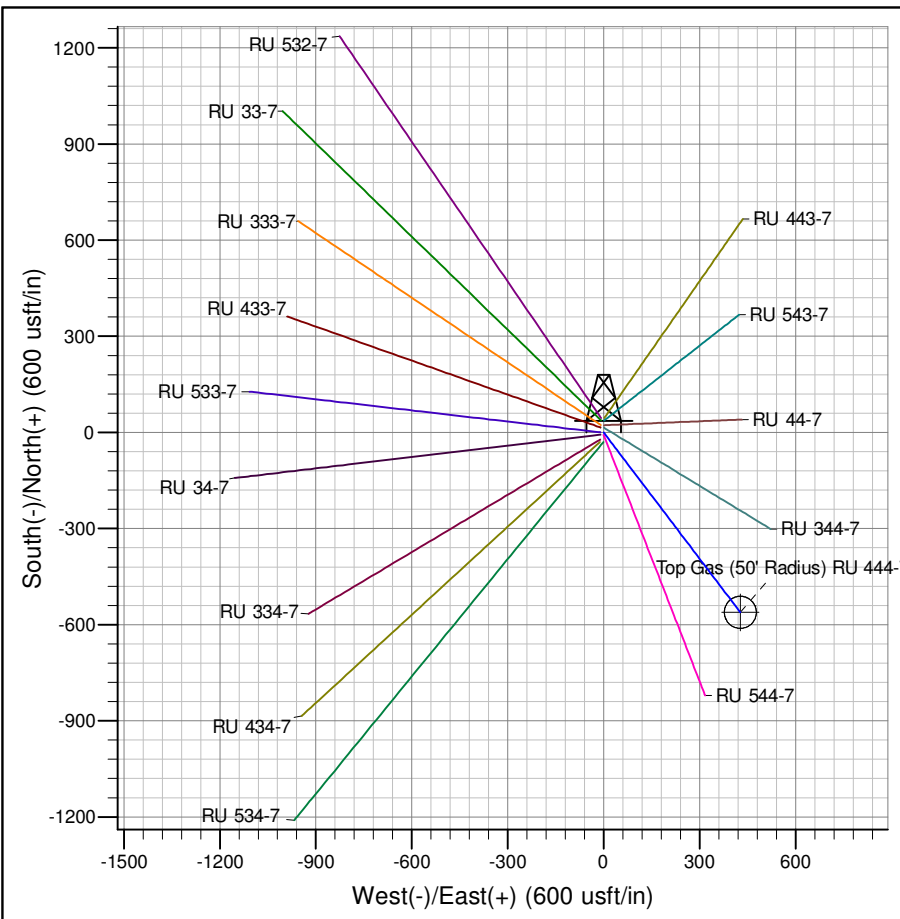




Well Name: RU 444-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598830.60000 2347577.30000 39.45478 -107.81081 B07
KELLY BUSHING @ 7943.00usft (Nabors 576 (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	
375.07	375.54	6.14	142.72	-10.46	7.96	13.14	13.14	Hold 6.14° Inc, 142.72° Az	
6607.54	6643.95	6.14	142.72	-543.81	413.97	683.45	683.45	Begin Drop -1.50°/100	
7016.00	7053.19	0.00	0.00	-561.24	427.23	705.35	705.35	Vertical	
7116.00	7153.19	0.00	0.00	-561.24	427.23	705.35	705.35	Top Gas	
9866.00	9903.19	0.00	0.00	-561.24	427.23	705.35	705.35	TD at 9903.19	



Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 444-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 444-7 - Slot B07

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 444-7 - Slot B07
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 444-7	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 444-7 - Slot B07			
Well Position	+N/-S	0.00 usft	Northing:	1,598,830.60000 usft
	+E/-W	0.00 usft	Easting:	2,347,577.30000 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	142.72

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	
375.54	6.14	142.72	375.07	-10.46	7.96	2.50	2.50	0.00	142.72	
6,643.95	6.14	142.72	6,607.54	-543.81	413.97	0.00	0.00	0.00	0.00	
7,053.19	0.00	0.00	7,016.00	-561.24	427.23	1.50	-1.50	0.00	180.00	
7,153.19	0.00	0.00	7,116.00	-561.24	427.23	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,903.19	0.00	0.00	9,866.00	-561.24	427.23	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 444-7 - Slot B07
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 444-7	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	1,598,830.60000	2,347,577.30000	39.45478	-107.81081	
130.00	0.00	0.00	130.00	0.00	0.00	1,598,830.60000	2,347,577.30000	39.45478	-107.81081	
Start Build 2.50										
200.00	1.75	142.72	199.99	-0.85	0.65	1,598,829.73331	2,347,577.92559	39.45478	-107.81081	
375.54	6.14	142.72	375.07	-10.46	7.96	1,598,819.94514	2,347,584.99073	39.45475	-107.81078	
Hold 6.14° Inc, 142.72° Az										
400.00	6.14	142.72	399.39	-12.54	9.54	1,598,817.82478	2,347,586.52120	39.45475	-107.81078	
600.00	6.14	142.72	598.24	-29.55	22.50	1,598,800.48427	2,347,599.03766	39.45470	-107.81073	
800.00	6.14	142.72	797.10	-46.57	35.45	1,598,783.14376	2,347,611.55412	39.45465	-107.81069	
1,000.00	6.14	142.72	995.95	-63.59	48.41	1,598,765.80325	2,347,624.07058	39.45461	-107.81064	
1,200.00	6.14	142.72	1,194.80	-80.61	61.36	1,598,748.46274	2,347,636.58704	39.45456	-107.81059	
1,305.80	6.14	142.72	1,300.00	-89.61	68.21	1,598,739.28931	2,347,643.20846	39.45453	-107.81057	
9 5/8"										
1,400.00	6.14	142.72	1,393.66	-97.62	74.31	1,598,731.12223	2,347,649.10350	39.45451	-107.81055	
1,600.00	6.14	142.72	1,592.51	-114.64	87.27	1,598,713.78172	2,347,661.61995	39.45446	-107.81050	
1,800.00	6.14	142.72	1,791.36	-131.66	100.22	1,598,696.44121	2,347,674.13641	39.45442	-107.81046	
2,000.00	6.14	142.72	1,990.22	-148.68	113.18	1,598,679.10070	2,347,686.65287	39.45437	-107.81041	
2,200.00	6.14	142.72	2,189.07	-165.69	126.13	1,598,661.76019	2,347,699.16933	39.45432	-107.81036	
2,400.00	6.14	142.72	2,387.92	-182.71	139.08	1,598,644.41968	2,347,711.68579	39.45428	-107.81032	
2,600.00	6.14	142.72	2,586.78	-199.73	152.04	1,598,627.07918	2,347,724.20225	39.45423	-107.81027	
2,800.00	6.14	142.72	2,785.63	-216.75	164.99	1,598,609.73867	2,347,736.71870	39.45418	-107.81023	
3,000.00	6.14	142.72	2,984.48	-233.76	177.95	1,598,592.39816	2,347,749.23516	39.45414	-107.81018	
3,200.00	6.14	142.72	3,183.34	-250.78	190.90	1,598,575.05765	2,347,761.75162	39.45409	-107.81013	
3,400.00	6.14	142.72	3,382.19	-267.80	203.85	1,598,557.71714	2,347,774.26808	39.45404	-107.81009	
3,600.00	6.14	142.72	3,581.04	-284.81	216.81	1,598,540.37663	2,347,786.78454	39.45400	-107.81004	
3,800.00	6.14	142.72	3,779.90	-301.83	229.76	1,598,523.03612	2,347,799.30100	39.45395	-107.81000	
3,811.17	6.14	142.72	3,791.00	-302.78	230.49	1,598,522.06774	2,347,799.99998	39.45395	-107.80999	
Top of "G" Sand										
3,911.75	6.14	142.72	3,891.00	-311.34	237.00	1,598,513.34749	2,347,806.29430	39.45392	-107.80997	
Base of "G" Sand										
4,000.00	6.14	142.72	3,978.75	-318.85	242.72	1,598,505.69561	2,347,811.81745	39.45390	-107.80995	
4,200.00	6.14	142.72	4,177.60	-335.87	255.67	1,598,488.35510	2,347,824.33391	39.45386	-107.80991	
4,400.00	6.14	142.72	4,376.45	-352.88	268.62	1,598,471.01459	2,347,836.85037	39.45381	-107.80986	
4,600.00	6.14	142.72	4,575.31	-369.90	281.58	1,598,453.67408	2,347,849.36683	39.45376	-107.80981	
4,800.00	6.14	142.72	4,774.16	-386.92	294.53	1,598,436.33357	2,347,861.88329	39.45372	-107.80977	
5,000.00	6.14	142.72	4,973.01	-403.94	307.49	1,598,418.99306	2,347,874.39975	39.45367	-107.80972	
5,200.00	6.14	142.72	5,171.87	-420.95	320.44	1,598,401.65255	2,347,886.91620	39.45362	-107.80968	
5,400.00	6.14	142.72	5,370.72	-437.97	333.39	1,598,384.31204	2,347,899.43266	39.45358	-107.80963	
5,600.00	6.14	142.72	5,569.57	-454.99	346.35	1,598,366.97153	2,347,911.94912	39.45353	-107.80958	
5,800.00	6.14	142.72	5,768.43	-472.00	359.30	1,598,349.63102	2,347,924.46558	39.45348	-107.80954	
6,000.00	6.14	142.72	5,967.28	-489.02	372.26	1,598,332.29051	2,347,936.98204	39.45344	-107.80949	
6,161.65	6.14	142.72	6,128.00	-502.78	382.73	1,598,318.27536	2,347,947.09824	39.45340	-107.80946	
Mesaverde										
6,200.00	6.14	142.72	6,166.13	-506.04	385.21	1,598,314.95000	2,347,949.49850	39.45339	-107.80945	
6,400.00	6.14	142.72	6,364.99	-523.06	398.16	1,598,297.60949	2,347,962.01495	39.45334	-107.80940	
6,600.00	6.14	142.72	6,563.84	-540.07	411.12	1,598,280.26898	2,347,974.53141	39.45330	-107.80935	
6,643.95	6.14	142.72	6,607.54	-543.81	413.97	1,598,276.45809	2,347,977.28213	39.45329	-107.80934	
Begin Drop -1.50°/100										
6,800.00	3.80	142.72	6,762.99	-554.57	422.15	1,598,265.50147	2,347,985.19066	39.45326	-107.80932	
7,000.00	0.80	142.72	6,962.81	-560.95	427.01	1,598,259.00031	2,347,989.88323	39.45324	-107.80930	
7,053.19	0.00	0.00	7,016.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930	
Vertical										

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 444-7 - Slot B07
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 444-7	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
7,153.19	0.00	0.00	7,116.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
Top Gas - Approx. Top Gas									
7,200.00	0.00	0.00	7,162.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
7,400.00	0.00	0.00	7,362.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
7,600.00	0.00	0.00	7,562.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
7,800.00	0.00	0.00	7,762.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,000.00	0.00	0.00	7,962.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,200.00	0.00	0.00	8,162.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,400.00	0.00	0.00	8,362.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,600.00	0.00	0.00	8,562.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,800.00	0.00	0.00	8,762.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
8,899.19	0.00	0.00	8,862.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
Cameo Coals									
9,000.00	0.00	0.00	8,962.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
9,200.00	0.00	0.00	9,162.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
9,400.00	0.00	0.00	9,362.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
9,583.19	0.00	0.00	9,546.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
Coal D									
9,600.00	0.00	0.00	9,562.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
9,753.19	0.00	0.00	9,716.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
Rollins SS									
9,800.00	0.00	0.00	9,762.81	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
9,903.19	0.00	0.00	9,866.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930
TD at 9903.19 - 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	7,116.00	-561.24	427.23	1,598,258.70000	2,347,990.10000	39.45324	-107.80930

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,305.80	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 444-7 - Slot B07
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 444-7	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)
	3,811.17	3,791.00	Top of "G" Sand			
	3,911.75	3,891.00	Base of "G" Sand			
	6,161.65	6,128.00	Mesaverde			
	7,153.19	7,116.00	Approx. Top Gas			
	8,899.19	8,862.00	Cameo Coals			
	9,583.19	9,546.00	Coal D			
	9,753.19	9,716.00	Rollins SS			
	9,903.19	9,866.00	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 2.50
	375.54	375.07	-10.46	7.96	Hold 6.14° Inc, 142.72° Az
	6,643.95	6,607.54	-543.81	413.97	Begin Drop -1.50°/100
	7,053.19	7,016.00	-561.24	427.23	Vertical
	7,153.19	7,116.00	-561.24	427.23	Top Gas
	9,903.19	9,866.00	-561.24	427.23	TD at 9903.19