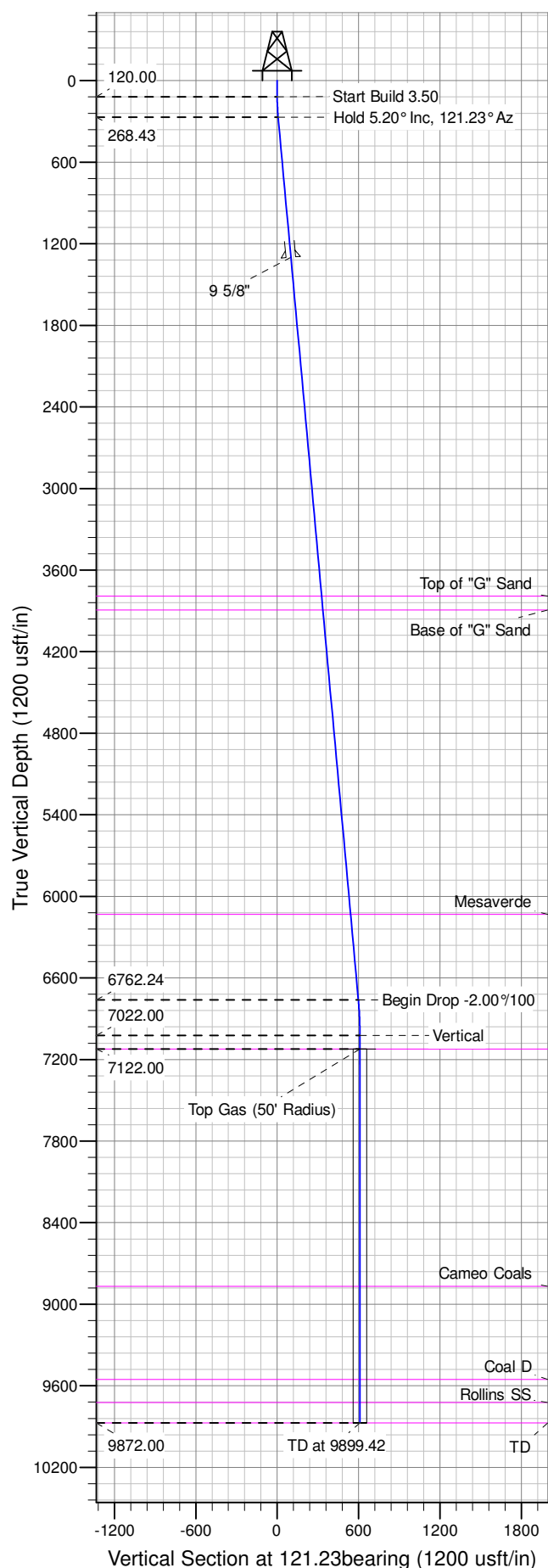
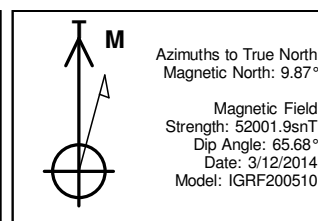
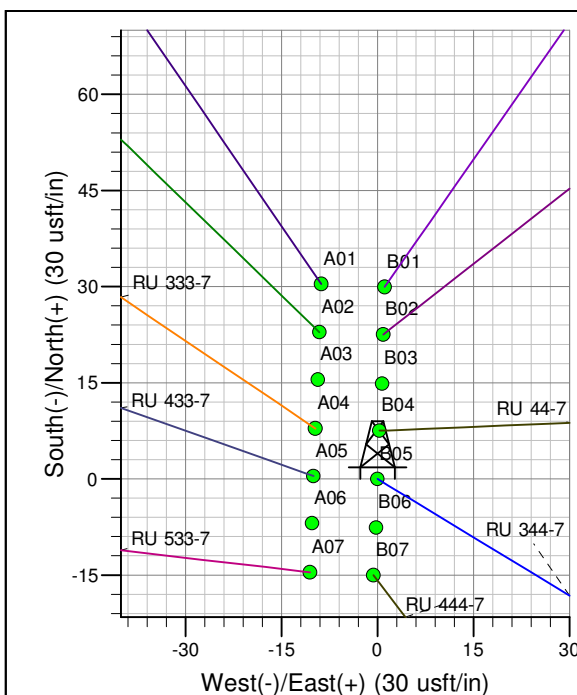
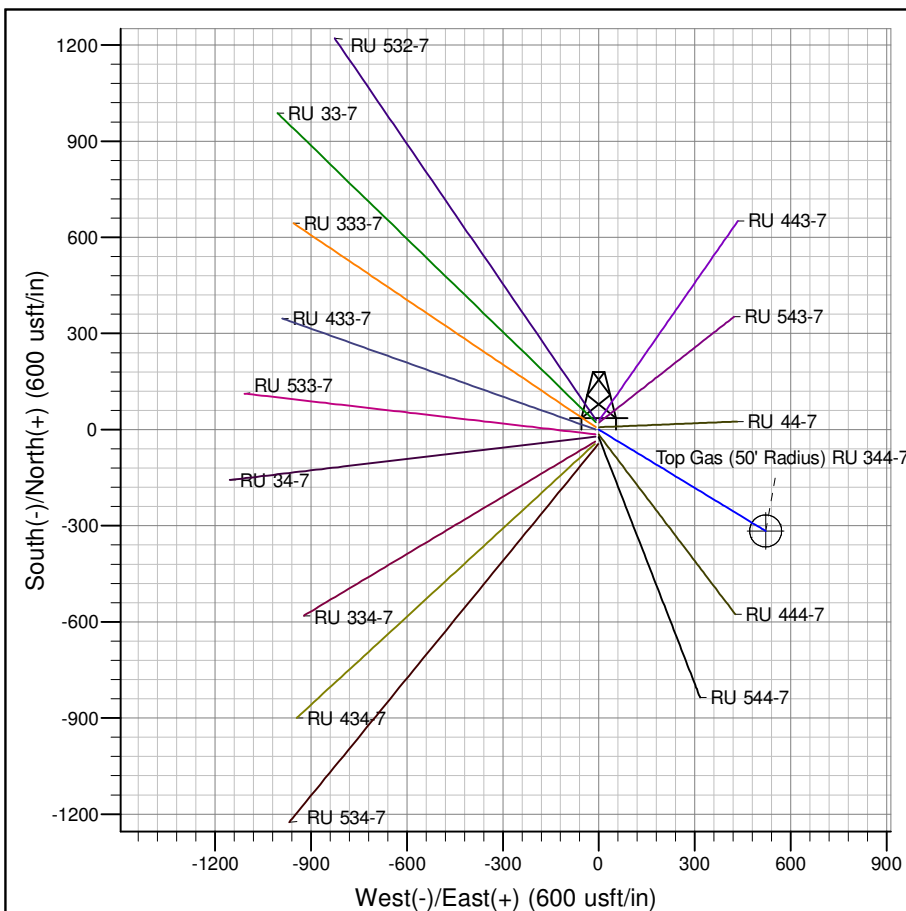




Well Name: RU 344-7
Surface Location: RU 44-7 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7917.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1598845.60000 2347578.30000 39.45482 -107.81081 B05
KELLY BUSHING @ 7943.00usft (Nabors 576 (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	3.50
268.43	268.64	5.20	121.23	-3.50	5.77	6.74	6.74	Hold 5.20° Inc, 121.23° Az	
6762.24	6789.31	5.20	121.23	-310.04	511.34	597.99	597.99	Begin Drop	-2.00°/100
7022.00	7049.42	0.00	0.00	-316.16	521.43	609.79	609.79	Vertical	
7122.00	7149.42	0.00	0.00	-316.16	521.43	609.79	609.79	Top Gas	
9872.00	9899.42	0.00	0.00	-316.16	521.43	609.79	609.79	TD at 9899.42	



Project: RU 07-07S-093W
Site: RU 44-7 Pad
Well: RU 344-7
Design #2 28May14 mab

PICEANCE VLY NAD 83

RU 07-07S-093W

RU 44-7 Pad

RU 344-7 - Slot B05

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 344-7 - Slot B05
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 344-7	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
From:	Map	Easting:	2,347,575.10000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.45468
		Longitude:	-107.81082
		Grid Convergence:	-1.46 °

Well	RU 344-7 - Slot B05		
Well Position	+N/-S	0.00 usft	Northing: 1,598,845.60000 usft
	+E/-W	0.00 usft	Easting: 2,347,578.30000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.45482
		Longitude:	-107.81081
		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	121.23

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	
268.64	5.20	121.23	268.43	-3.50	5.77	3.50	3.50	0.00	121.23	
6,789.31	5.20	121.23	6,762.24	-310.04	511.34	0.00	0.00	0.00	0.00	
7,049.42	0.00	0.00	7,022.00	-316.16	521.43	2.00	-2.00	0.00	180.00	
7,149.42	0.00	0.00	7,122.00	-316.16	521.43	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,899.42	0.00	0.00	9,872.00	-316.16	521.43	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 344-7 - Slot B05
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 344-7	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	1,598,845.60000	2,347,578.30000	39.45482	-107.81081
120.00	0.00	0.00	120.00	0.00	0.00	1,598,845.60000	2,347,578.30000	39.45482	-107.81081
Start Build 3.50									
200.00	2.80	121.23	199.97	-1.01	1.67	1,598,844.54460	2,347,579.94481	39.45482	-107.81080
268.64	5.20	121.23	268.43	-3.50	5.77	1,598,841.95846	2,347,583.97519	39.45481	-107.81079
Hold 5.20° Inc, 121.23° Az									
400.00	5.20	121.23	399.25	-9.67	15.95	1,598,835.52628	2,347,593.99946	39.45479	-107.81075
600.00	5.20	121.23	598.43	-19.07	31.46	1,598,825.73324	2,347,609.26149	39.45477	-107.81070
800.00	5.20	121.23	797.61	-28.48	46.97	1,598,815.94020	2,347,624.52352	39.45474	-107.81064
1,000.00	5.20	121.23	996.78	-37.88	62.47	1,598,806.14716	2,347,639.78556	39.45472	-107.81059
1,200.00	5.20	121.23	1,195.96	-47.28	77.98	1,598,796.35413	2,347,655.04759	39.45469	-107.81053
1,304.47	5.20	121.23	1,300.00	-52.19	86.08	1,598,791.23868	2,347,663.01979	39.45468	-107.81050
9 5/8"									
1,400.00	5.20	121.23	1,395.14	-56.68	93.49	1,598,786.56109	2,347,670.30962	39.45467	-107.81048
1,600.00	5.20	121.23	1,594.31	-66.08	108.99	1,598,776.76805	2,347,685.57165	39.45464	-107.81042
1,800.00	5.20	121.23	1,793.49	-75.49	124.50	1,598,766.97501	2,347,700.83369	39.45461	-107.81037
2,000.00	5.20	121.23	1,992.66	-84.89	140.01	1,598,757.18197	2,347,716.09572	39.45459	-107.81031
2,200.00	5.20	121.23	2,191.84	-94.29	155.51	1,598,747.38893	2,347,731.35775	39.45456	-107.81026
2,400.00	5.20	121.23	2,391.02	-103.69	171.02	1,598,737.59589	2,347,746.61979	39.45454	-107.81020
2,600.00	5.20	121.23	2,590.19	-113.09	186.53	1,598,727.80286	2,347,761.88182	39.45451	-107.81015
2,800.00	5.20	121.23	2,789.37	-122.50	202.03	1,598,718.00982	2,347,777.14385	39.45448	-107.81009
3,000.00	5.20	121.23	2,988.54	-131.90	217.54	1,598,708.21678	2,347,792.40589	39.45446	-107.81004
3,200.00	5.20	121.23	3,187.72	-141.30	233.05	1,598,698.42374	2,347,807.66792	39.45443	-107.80998
3,400.00	5.20	121.23	3,386.90	-150.70	248.55	1,598,688.63070	2,347,822.92995	39.45441	-107.80993
3,600.00	5.20	121.23	3,586.07	-160.11	264.06	1,598,678.83766	2,347,838.19198	39.45438	-107.80987
3,800.00	5.20	121.23	3,785.25	-169.51	279.57	1,598,669.04462	2,347,853.45402	39.45436	-107.80982
3,806.78	5.20	121.23	3,792.00	-169.83	280.09	1,598,668.71270	2,347,853.97130	39.45435	-107.80982
Top of "G" Sand									
3,907.19	5.20	121.23	3,892.00	-174.55	287.88	1,598,663.79593	2,347,861.63388	39.45434	-107.80979
Base of "G" Sand									
4,000.00	5.20	121.23	3,984.43	-178.91	295.07	1,598,659.25158	2,347,868.71605	39.45433	-107.80976
4,200.00	5.20	121.23	4,183.60	-188.31	310.58	1,598,649.45855	2,347,883.97808	39.45430	-107.80971
4,400.00	5.20	121.23	4,382.78	-197.71	326.09	1,598,639.66551	2,347,899.24012	39.45428	-107.80965
4,600.00	5.20	121.23	4,581.95	-207.12	341.60	1,598,629.87248	2,347,914.50215	39.45425	-107.80960
4,800.00	5.20	121.23	4,781.13	-216.52	357.10	1,598,620.07944	2,347,929.76418	39.45423	-107.80954
5,000.00	5.20	121.23	4,980.31	-225.92	372.61	1,598,610.28640	2,347,945.02621	39.45420	-107.80949
5,200.00	5.20	121.23	5,179.48	-235.32	388.12	1,598,600.49336	2,347,960.28825	39.45417	-107.80943
5,400.00	5.20	121.23	5,378.66	-244.72	403.62	1,598,590.70032	2,347,975.55028	39.45415	-107.80938
5,600.00	5.20	121.23	5,577.83	-254.13	419.13	1,598,580.90729	2,347,990.81230	39.45412	-107.80932
5,800.00	5.20	121.23	5,777.01	-263.53	434.64	1,598,571.11425	2,348,006.07434	39.45410	-107.80927
6,000.00	5.20	121.23	5,976.19	-272.93	450.14	1,598,561.32121	2,348,021.33637	39.45407	-107.80921
6,156.46	5.20	121.23	6,132.00	-280.29	462.27	1,598,553.66023	2,348,033.27568	39.45405	-107.80917
Mesaverde									
6,200.00	5.20	121.23	6,175.36	-282.33	465.65	1,598,551.52817	2,348,036.59840	39.45405	-107.80916
6,400.00	5.20	121.23	6,374.54	-291.74	481.16	1,598,541.73513	2,348,051.86043	39.45402	-107.80910
6,600.00	5.20	121.23	6,573.72	-301.14	496.66	1,598,531.94209	2,348,067.12247	39.45399	-107.80905
6,789.31	5.20	121.23	6,762.24	-310.04	511.34	1,598,522.67269	2,348,081.56843	39.45397	-107.80900
Begin Drop -2.00°/100									
6,800.00	4.99	121.23	6,772.89	-310.53	512.15	1,598,522.15979	2,348,082.36777	39.45397	-107.80899
7,000.00	0.99	121.23	6,972.58	-315.93	521.07	1,598,516.53021	2,348,091.14123	39.45395	-107.80896
7,049.42	0.00	0.00	7,022.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
Vertical									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 344-7 - Slot B05
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 344-7	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
7,149.42	0.00	0.00	7,122.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
Top Gas - Approx. Top Gas									
7,200.00	0.00	0.00	7,172.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
7,400.00	0.00	0.00	7,372.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
7,600.00	0.00	0.00	7,572.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
7,800.00	0.00	0.00	7,772.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,000.00	0.00	0.00	7,972.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,200.00	0.00	0.00	8,172.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,400.00	0.00	0.00	8,372.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,600.00	0.00	0.00	8,572.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,800.00	0.00	0.00	8,772.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
8,896.42	0.00	0.00	8,869.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
Cameo Coals									
9,000.00	0.00	0.00	8,972.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
9,200.00	0.00	0.00	9,172.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
9,400.00	0.00	0.00	9,372.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
9,580.42	0.00	0.00	9,553.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
Coal D									
9,600.00	0.00	0.00	9,572.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
9,749.42	0.00	0.00	9,722.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
Rollins SS									
9,800.00	0.00	0.00	9,772.58	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
9,899.42	0.00	0.00	9,872.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
TD at 9899.42 - TD									

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 - hit/miss target - Shape	0.00	0.00	7,122.00	-316.16	521.43	1,598,516.30000	2,348,091.50000	39.45395	-107.80896
- plan hits target center - Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,304.47	1,300.00	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 344-7 - Slot B05
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 344-7	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)
	3,806.78	3,792.00	Top of "G" Sand			
	3,907.19	3,892.00	Base of "G" Sand			
	6,156.46	6,132.00	Mesaverde			
	7,149.42	7,122.00	Approx. Top Gas			
	8,896.42	8,869.00	Cameo Coals			
	9,580.42	9,553.00	Coal D			
	9,749.42	9,722.00	Rollins SS			
	9,899.42	9,872.00	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 3.50
	268.64	268.43	-3.50	5.77	Hold 5.20° Inc, 121.23° Az
	6,789.31	6,762.24	-310.04	511.34	Begin Drop -2.00°/100
	7,049.42	7,022.00	-316.16	521.43	Vertical
	7,149.42	7,122.00	-316.16	521.43	Top Gas
	9,899.42	9,872.00	-316.16	521.43	TD at 9899.42