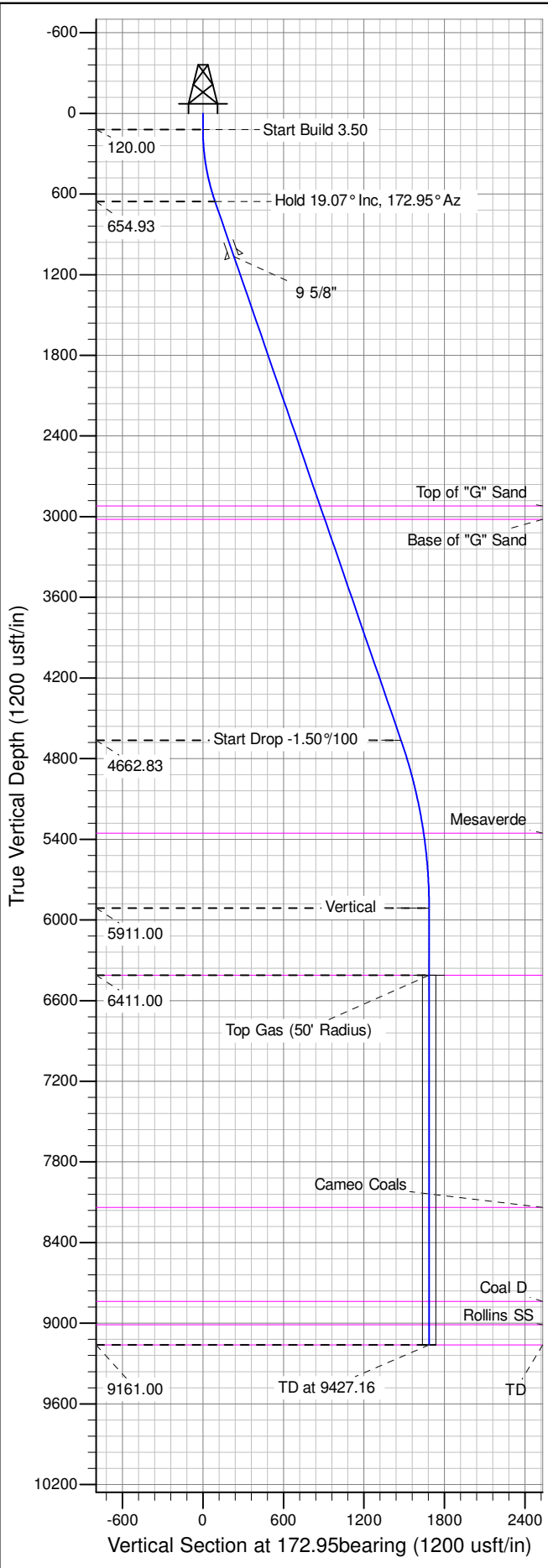
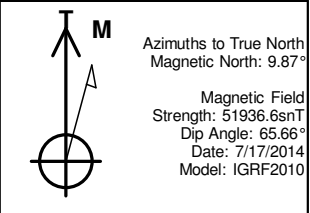
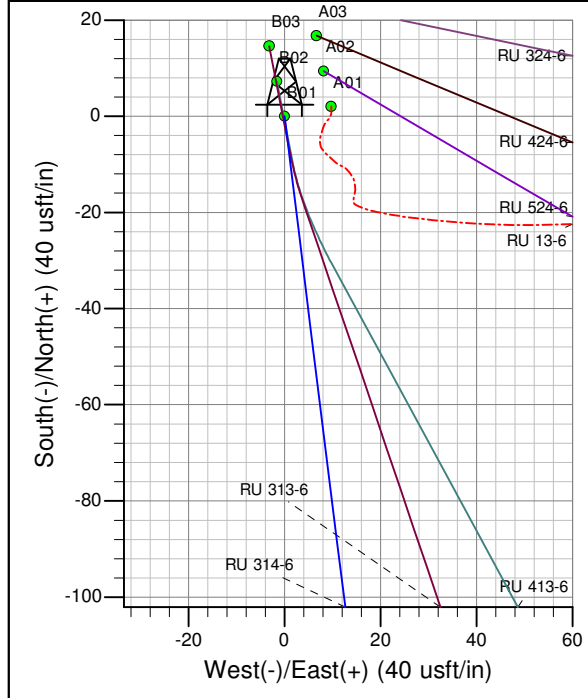
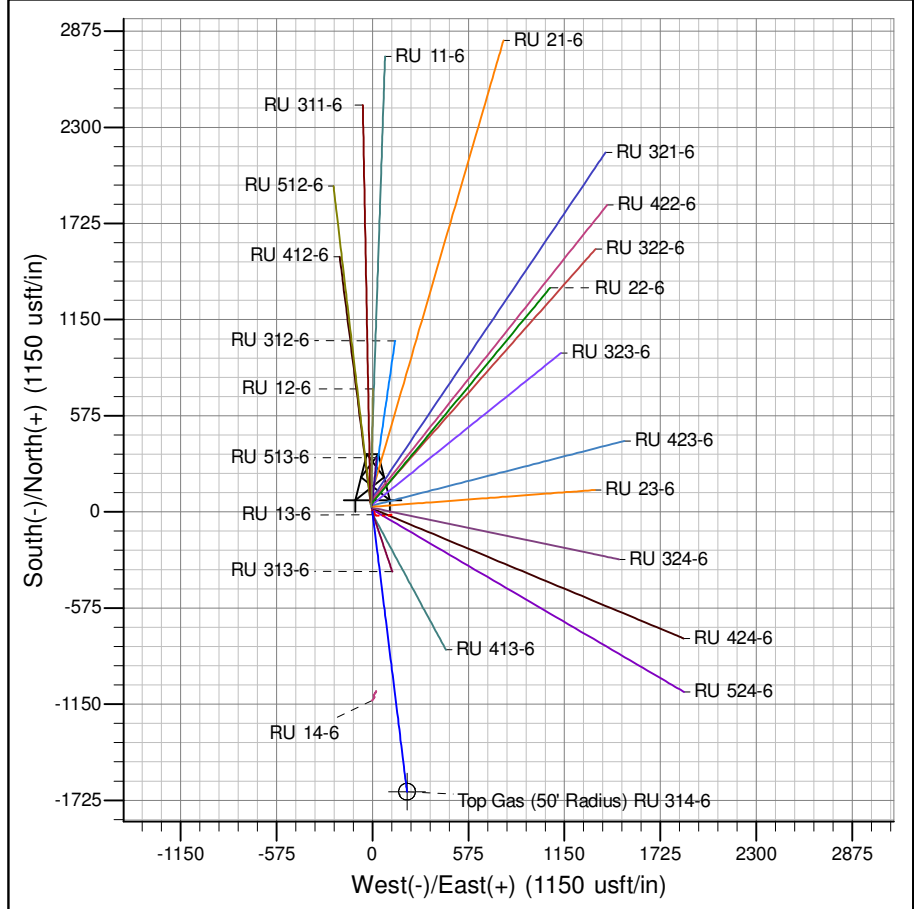




Well Name: RU 314-6
Surface Location: RU 13-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6985.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603403.60000 2343751.50000 39.467062 -107.824767 B01
KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)



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	
654.93	654.94	19.07	172.95	-89.19	11.04	89.87	89.87	Hold 19.07° Inc, 172.95° Az	
4662.83	4905.64	19.07	172.95	-1464.43	181.22	1475.60	1475.60	Start Drop -1.50°/100	
5911.00	6177.16	0.00	0.00	-1672.53	206.97	1685.28	1685.28	Vertical	
6411.00	6677.16	0.00	0.00	-1672.53	206.97	1685.28	1685.28	Top Gas	
9161.00	9427.16	0.00	0.00	-1672.53	206.97	1685.28	1685.28	TD at 9427.16	



Project: RU 06-07S-093W
Site: RU 13-6 Pad
Well: RU 314-6
Design #1 17Jul14 mab

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 314-6 - Slot B01

Wellbore #1

Plan: Design #1 17Jul14 mab

Standard Planning Report - Geographic

16 September, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 314-6 - Slot B01
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 314-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 mab		

Project	RU 06-07S-093W		
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 13-6 Pad		
Site Position:		Northing:	1,603,405.40000 usft
From:	Map	Easting:	2,343,761.30000 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.467067
		Longitude:	-107.824733
		Grid Convergence:	-1.47 °

Well	RU 314-6 - Slot B01		
Well Position	+N/-S	0.00 usft	Northing: 1,603,403.60000 usft
	+E/-W	0.00 usft	Easting: 2,343,751.50000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.467062
		Longitude:	-107.824767
		Ground Level:	6,985.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/17/2014	9.87	65.66	51,937

Design	Design #1 17Jul14 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	172.95	

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	
664.94	19.07	172.95	654.93	-89.19	11.04	3.50	3.50	0.00	172.95	
4,905.64	19.07	172.95	4,662.83	-1,464.43	181.22	0.00	0.00	0.00	0.00	
6,177.16	0.00	0.00	5,911.00	-1,672.53	206.97	1.50	-1.50	0.00	180.00	
6,677.16	0.00	0.00	6,411.00	-1,672.53	206.97	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,427.16	0.00	0.00	9,161.00	-1,672.53	206.97	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 314-6 - Slot B01
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 314-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 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	1,603,403.60000	2,343,751.50000	39.467062	-107.824767	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,403.60000	2,343,751.50000	39.467062	-107.824767	
Start Build 3.50										
200.00	2.80	172.95	199.97	-1.94	0.24	1,603,401.65499	2,343,751.69030	39.467056	-107.824767	
400.00	9.80	172.95	398.64	-23.71	2.93	1,603,379.82697	2,343,753.82599	39.466997	-107.824757	
600.00	16.80	172.95	593.15	-69.34	8.58	1,603,334.06615	2,343,758.30330	39.466871	-107.824737	
664.94	19.07	172.95	654.93	-89.19	11.04	1,603,314.16537	2,343,760.25043	39.466817	-107.824728	
Hold 19.07° Inc, 172.95° Az										
800.00	19.07	172.95	782.58	-132.99	16.46	1,603,270.24255	2,343,764.54791	39.466697	-107.824709	
1,000.00	19.07	172.95	971.60	-197.84	24.48	1,603,205.20217	2,343,770.91157	39.466519	-107.824681	
1,100.00	19.07	172.95	1,066.11	-230.27	28.50	1,603,172.68198	2,343,774.09340	39.466430	-107.824667	
9 5/8"										
1,200.00	19.07	172.95	1,160.62	-262.70	32.51	1,603,140.16179	2,343,777.27523	39.466341	-107.824652	
1,400.00	19.07	172.95	1,349.64	-327.56	40.54	1,603,075.12141	2,343,783.63888	39.466163	-107.824624	
1,600.00	19.07	172.95	1,538.66	-392.42	48.56	1,603,010.08102	2,343,790.00254	39.465984	-107.824595	
1,800.00	19.07	172.95	1,727.68	-457.28	56.59	1,602,945.04065	2,343,796.36620	39.465806	-107.824567	
2,000.00	19.07	172.95	1,916.70	-522.14	64.61	1,602,880.00027	2,343,802.72986	39.465628	-107.824539	
2,200.00	19.07	172.95	2,105.72	-587.00	72.64	1,602,814.95989	2,343,809.09351	39.465450	-107.824510	
2,400.00	19.07	172.95	2,294.74	-651.86	80.67	1,602,749.91950	2,343,815.45717	39.465272	-107.824482	
2,600.00	19.07	172.95	2,483.76	-716.72	88.69	1,602,684.87912	2,343,821.82083	39.465094	-107.824453	
2,800.00	19.07	172.95	2,672.79	-781.58	96.72	1,602,619.83874	2,343,828.18449	39.464916	-107.824425	
3,000.00	19.07	172.95	2,861.81	-846.44	104.74	1,602,554.79837	2,343,834.54815	39.464738	-107.824396	
3,062.63	19.07	172.95	2,921.00	-866.75	107.26	1,602,534.43035	2,343,836.54099	39.464682	-107.824388	
Top of "G" Sand										
3,168.44	19.07	172.95	3,021.00	-901.06	111.50	1,602,500.02124	2,343,839.90763	39.464588	-107.824373	
Base of "G" Sand										
3,200.00	19.07	172.95	3,050.83	-911.29	112.77	1,602,489.75798	2,343,840.91180	39.464560	-107.824368	
3,400.00	19.07	172.95	3,239.85	-976.15	120.80	1,602,424.71760	2,343,847.27546	39.464382	-107.824340	
3,600.00	19.07	172.95	3,428.87	-1,041.01	128.82	1,602,359.67722	2,343,853.63912	39.464204	-107.824311	
3,800.00	19.07	172.95	3,617.89	-1,105.87	136.85	1,602,294.63684	2,343,860.00278	39.464026	-107.824283	
4,000.00	19.07	172.95	3,806.91	-1,170.73	144.87	1,602,229.59645	2,343,866.36643	39.463848	-107.824254	
4,200.00	19.07	172.95	3,995.93	-1,235.59	152.90	1,602,164.55608	2,343,872.73009	39.463670	-107.824226	
4,400.00	19.07	172.95	4,184.95	-1,300.45	160.93	1,602,099.51570	2,343,879.09375	39.463492	-107.824198	
4,600.00	19.07	172.95	4,373.97	-1,365.31	168.95	1,602,034.47532	2,343,885.45741	39.463314	-107.824169	
4,800.00	19.07	172.95	4,562.99	-1,430.17	176.98	1,601,969.43493	2,343,891.82106	39.463135	-107.824141	
4,905.64	19.07	172.95	4,662.83	-1,464.43	181.22	1,601,935.08080	2,343,895.18233	39.463041	-107.824126	
Start Drop -1.50°/100										
5,000.00	17.66	172.95	4,752.39	-1,493.93	184.87	1,601,905.49387	2,343,898.07716	39.462960	-107.824113	
5,200.00	14.66	172.95	4,944.46	-1,549.16	191.70	1,601,850.11178	2,343,903.49584	39.462809	-107.824089	
5,400.00	11.66	172.95	5,139.19	-1,594.33	197.29	1,601,804.80999	2,343,907.92824	39.462685	-107.824069	
5,600.00	8.66	172.95	5,336.04	-1,629.33	201.63	1,601,769.71264	2,343,911.36222	39.462589	-107.824053	
5,620.19	8.35	172.95	5,356.00	-1,632.30	201.99	1,601,766.74106	2,343,911.65297	39.462581	-107.824052	
Mesaverde										
5,800.00	5.66	172.95	5,534.45	-1,654.06	204.69	1,601,744.91595	2,343,913.78837	39.462521	-107.824043	
6,000.00	2.66	172.95	5,733.91	-1,668.45	206.47	1,601,730.48787	2,343,915.20004	39.462481	-107.824036	
6,177.16	0.00	0.00	5,911.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034	
Vertical										
6,200.00	0.00	0.00	5,933.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034	
6,400.00	0.00	0.00	6,133.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034	
6,600.00	0.00	0.00	6,333.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034	
6,677.16	0.00	0.00	6,411.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034	
Top Gas - Approx. Top Gas										

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 314-6 - Slot B01
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 314-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 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
6,800.00	0.00	0.00	6,533.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
7,000.00	0.00	0.00	6,733.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
7,200.00	0.00	0.00	6,933.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
7,400.00	0.00	0.00	7,133.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
7,600.00	0.00	0.00	7,333.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
7,800.00	0.00	0.00	7,533.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
8,000.00	0.00	0.00	7,733.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
8,200.00	0.00	0.00	7,933.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
8,400.00	0.00	0.00	8,133.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
8,405.16	0.00	0.00	8,139.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
Cameo Coals									
8,600.00	0.00	0.00	8,333.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
8,800.00	0.00	0.00	8,533.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
9,000.00	0.00	0.00	8,733.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
9,104.16	0.00	0.00	8,838.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
Coal D									
9,200.00	0.00	0.00	8,933.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
9,277.16	0.00	0.00	9,011.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
Rollins SS									
9,400.00	0.00	0.00	9,133.84	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
9,427.16	0.00	0.00	9,161.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034
TD at 9427.16 - 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	6,411.00	-1,672.53	206.97	1,601,726.40000	2,343,915.60000	39.462470	-107.824034

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,100.00	1,066.11	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 314-6 - Slot B01
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Project:	RU 06-07S-093W	MD Reference:	KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)
Site:	RU 13-6 Pad	North Reference:	True
Well:	RU 314-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 mab		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)
	3,062.63	2,921.00	Top of "G" Sand			
	3,168.44	3,021.00	Base of "G" Sand			
	5,620.19	5,356.00	Mesaverde			
	6,677.16	6,411.00	Approx. Top Gas			
	8,405.16	8,139.00	Cameo Coals			
	9,104.16	8,838.00	Coal D			
	9,277.16	9,011.00	Rollins SS			
	9,427.16	9,161.00	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
	664.94	654.93	-89.19	11.04	Hold 19.07° Inc, 172.95° Az
	4,905.64	4,662.83	-1,464.43	181.22	Start Drop -1.50°/100
	6,177.16	5,911.00	-1,672.53	206.97	Vertical
	6,677.16	6,411.00	-1,672.53	206.97	Top Gas
	9,427.16	9,161.00	-1,672.53	206.97	TD at 9427.16