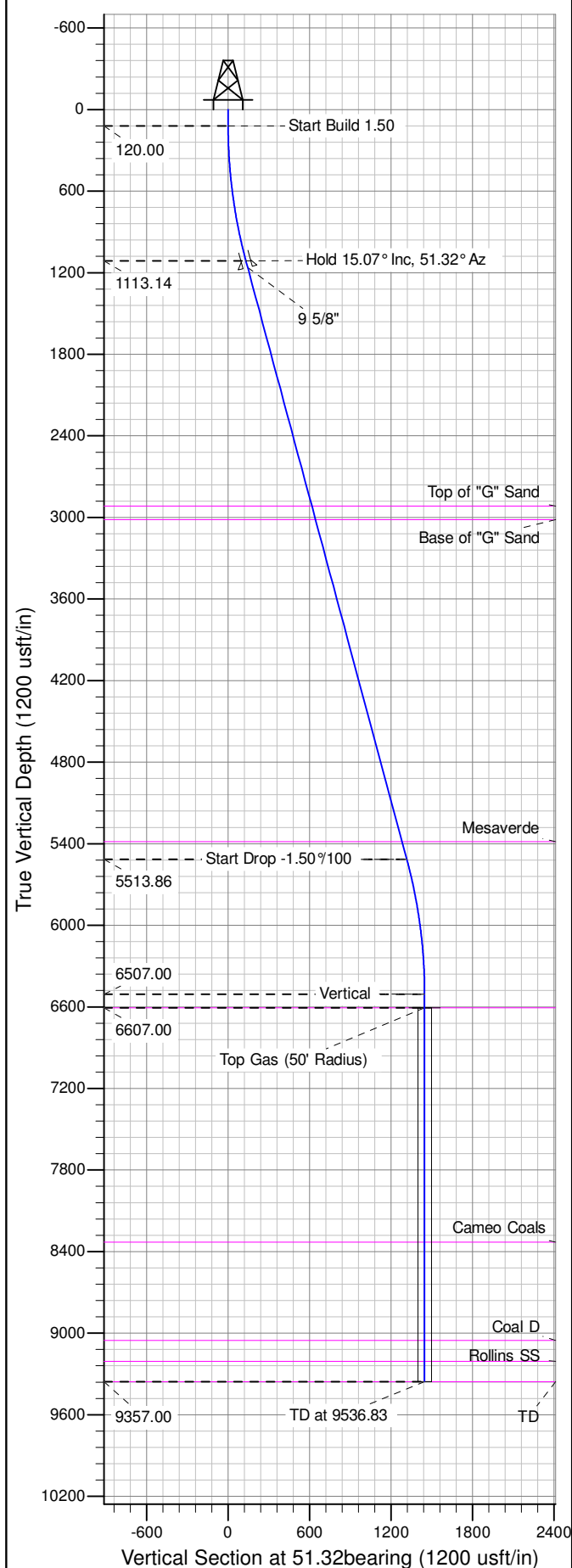
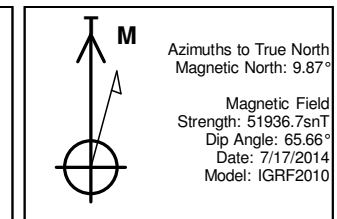
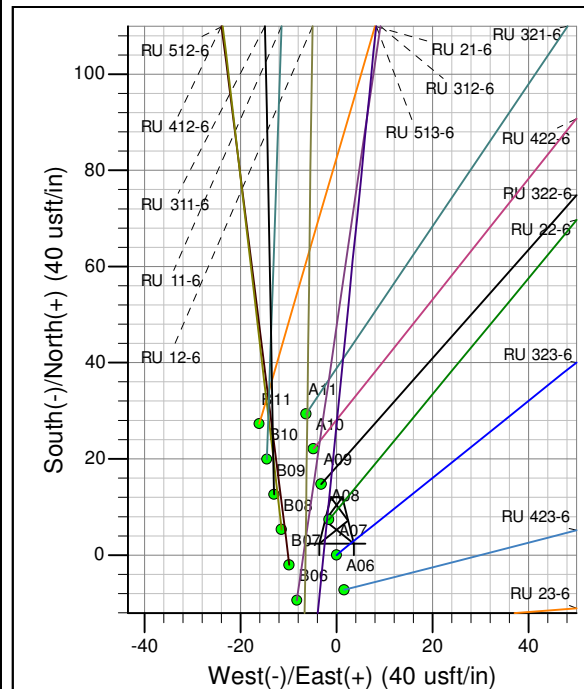
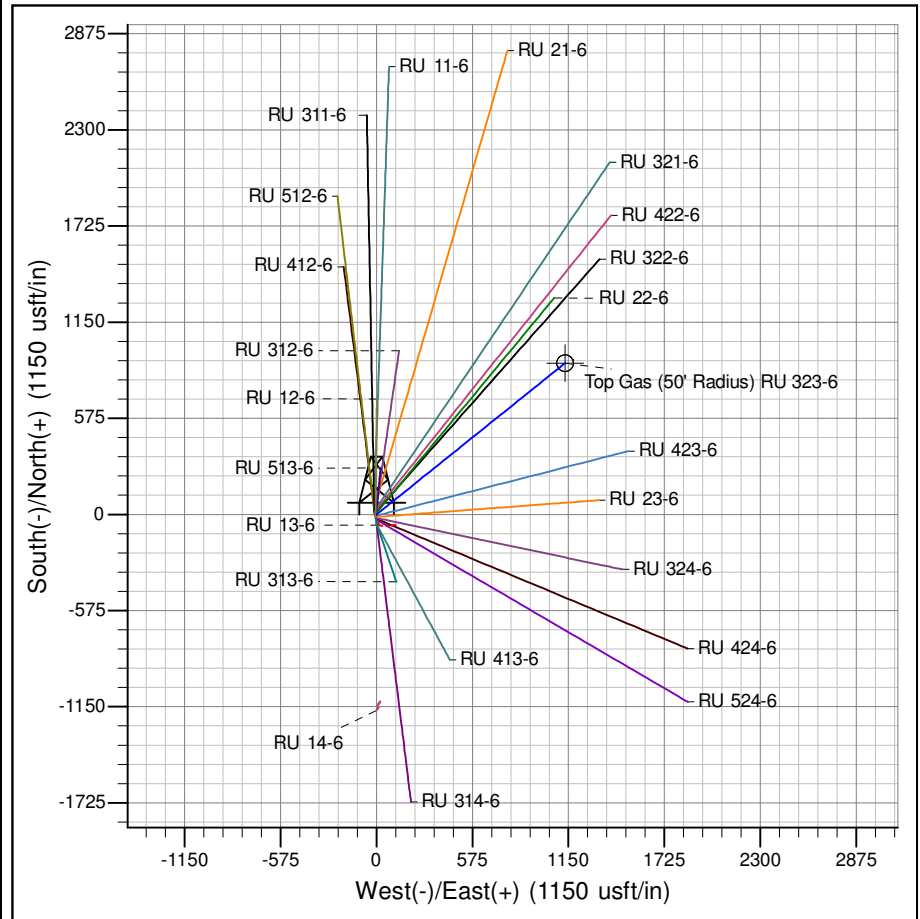




Well Name: RU 323-6
Surface Location: RU 13-6 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6985.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603449.60000 2343753.00000 39.467188 -107.824766 A07
KELLY BUSHING @ 7011.00usft (Nabors 574 (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50	
1113.14	1124.68	15.07	51.32	82.11	102.55	131.37	131.37	Hold 15.07° Inc, 51.32° Az	
5513.86	5682.15	15.07	51.32	822.74	1027.52	1316.32	1316.32	Start Drop -1.50°/100	
6507.00	6686.83	0.00	0.00	904.85	1130.07	1447.69	1447.69	Vertical	
6607.00	6786.83	0.00	0.00	904.85	1130.07	1447.69	1447.69	Top Gas	
9357.00	9536.83	0.00	0.00	904.85	1130.07	1447.69	1447.69	TD at 9536.83	



Project: RU 06-07S-093W
Site: RU 13-6 Pad
Well: RU 323-6
Design #1 17Jul14 mab

PICEANCE VLY NAD 83

RU 06-07S-093W

RU 13-6 Pad

RU 323-6 - Slot A07

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 323-6 - Slot A07
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 323-6	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 323-6 - Slot A07		
Well Position	+N/-S	0.00 usft	Northing: 1,603,449.60000 usft
	+E/-W	0.00 usft	Easting: 2,343,753.00000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.467188
		Longitude:	-107.824766
		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	51.32

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	
1,124.68	15.07	51.32	1,113.14	82.11	102.55	1.50	1.50	0.00	51.32	
5,682.15	15.07	51.32	5,513.86	822.74	1,027.52	0.00	0.00	0.00	0.00	
6,686.83	0.00	0.00	6,507.00	904.85	1,130.07	1.50	-1.50	0.00	180.00	
6,786.83	0.00	0.00	6,607.00	904.85	1,130.07	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
9,536.83	0.00	0.00	9,357.00	904.85	1,130.07	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-6 - Slot A07
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 323-6	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 17Jul14 mab		

Planned Survey										
Measured			Vertical			Map				
Depth (usft)	Inclination (°)	Azimuth (bearing)	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	1,603,449.60000	2,343,753.00000	39.467188	-107.824766	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,449.60000	2,343,753.00000	39.467188	-107.824766	
Start Build 1.50										
200.00	1.20	51.32	199.99	0.52	0.65	1,603,450.10668	2,343,753.66708	39.467190	-107.824764	
400.00	4.20	51.32	399.75	6.41	8.01	1,603,455.80426	2,343,761.16843	39.467206	-107.824738	
600.00	7.20	51.32	598.74	18.83	23.51	1,603,467.81712	2,343,776.98435	39.467240	-107.824683	
800.00	10.20	51.32	796.41	37.73	47.12	1,603,486.11231	2,343,801.07149	39.467292	-107.824599	
1,000.00	13.20	51.32	992.24	63.08	78.78	1,603,510.63970	2,343,833.36383	39.467361	-107.824487	
1,124.68	15.07	51.32	1,113.14	82.11	102.55	1,603,529.05485	2,343,857.60889	39.467414	-107.824403	
Hold 15.07° Inc, 51.32° Az										
1,174.68	15.07	51.32	1,161.42	90.23	112.69	1,603,536.91742	2,343,867.96063	39.467436	-107.824367	
9 5/8"										
1,200.00	15.07	51.32	1,185.87	94.35	117.83	1,603,540.89915	2,343,873.20291	39.467447	-107.824349	
1,400.00	15.07	51.32	1,378.99	126.85	158.42	1,603,572.35041	2,343,914.61110	39.467536	-107.824205	
1,600.00	15.07	51.32	1,572.11	159.35	199.02	1,603,603.80167	2,343,956.01929	39.467626	-107.824061	
1,800.00	15.07	51.32	1,765.23	191.85	239.61	1,603,635.25293	2,343,997.42748	39.467715	-107.823918	
2,000.00	15.07	51.32	1,958.35	224.36	280.20	1,603,666.70419	2,344,038.83566	39.467804	-107.823774	
2,200.00	15.07	51.32	2,151.47	256.86	320.79	1,603,698.15545	2,344,080.24385	39.467893	-107.823630	
2,400.00	15.07	51.32	2,344.59	289.36	361.38	1,603,729.60671	2,344,121.65205	39.467983	-107.823486	
2,600.00	15.07	51.32	2,537.72	321.86	401.97	1,603,761.05797	2,344,163.06024	39.468072	-107.823343	
2,800.00	15.07	51.32	2,730.84	354.36	442.57	1,603,792.50922	2,344,204.46843	39.468161	-107.823199	
2,991.76	15.07	51.32	2,916.00	385.53	481.48	1,603,822.66422	2,344,244.16998	39.468247	-107.823061	
Top of "G" Sand										
3,000.00	15.07	51.32	2,923.96	386.87	483.16	1,603,823.96048	2,344,245.87662	39.468250	-107.823055	
3,095.32	15.07	51.32	3,016.00	402.36	502.50	1,603,838.94995	2,344,265.61150	39.468293	-107.822986	
Base of "G" Sand										
3,200.00	15.07	51.32	3,117.08	419.37	523.75	1,603,855.41174	2,344,287.28481	39.468339	-107.822911	
3,400.00	15.07	51.32	3,310.20	451.87	564.34	1,603,886.86300	2,344,328.69300	39.468429	-107.822767	
3,600.00	15.07	51.32	3,503.32	484.37	604.93	1,603,918.31426	2,344,370.10119	39.468518	-107.822624	
3,800.00	15.07	51.32	3,696.45	516.87	645.52	1,603,949.76552	2,344,411.50939	39.468607	-107.822480	
4,000.00	15.07	51.32	3,889.57	549.38	686.12	1,603,981.21678	2,344,452.91757	39.468696	-107.822336	
4,200.00	15.07	51.32	4,082.69	581.88	726.71	1,604,012.66804	2,344,494.32576	39.468786	-107.822192	
4,400.00	15.07	51.32	4,275.81	614.38	767.30	1,604,044.11930	2,344,535.73395	39.468875	-107.822049	
4,600.00	15.07	51.32	4,468.93	646.88	807.89	1,604,075.57056	2,344,577.14214	39.468964	-107.821905	
4,800.00	15.07	51.32	4,662.05	679.38	848.48	1,604,107.02182	2,344,618.55033	39.469053	-107.821761	
5,000.00	15.07	51.32	4,855.18	711.89	889.07	1,604,138.47308	2,344,659.95852	39.469142	-107.821617	
5,200.00	15.07	51.32	5,048.30	744.39	929.67	1,604,169.92434	2,344,701.36672	39.469232	-107.821473	
5,400.00	15.07	51.32	5,241.42	776.89	970.26	1,604,201.37559	2,344,742.77491	39.469321	-107.821330	
5,549.73	15.07	51.32	5,386.00	801.22	1,000.65	1,604,224.92176	2,344,773.77539	39.469388	-107.821222	
Mesaverde										
5,600.00	15.07	51.32	5,434.54	809.39	1,010.85	1,604,232.82685	2,344,784.18310	39.469410	-107.821186	
5,682.15	15.07	51.32	5,513.86	822.74	1,027.52	1,604,245.74515	2,344,801.19111	39.469447	-107.821127	
Start Drop -1.50°/100										
5,800.00	13.30	51.32	5,628.12	840.79	1,050.07	1,604,263.21345	2,344,824.18957	39.469496	-107.821047	
6,000.00	10.30	51.32	5,823.87	866.36	1,082.00	1,604,287.95257	2,344,856.76067	39.469567	-107.820934	
6,200.00	7.30	51.32	6,021.49	885.49	1,105.88	1,604,306.46150	2,344,881.12921	39.469619	-107.820849	
6,400.00	4.30	51.32	6,220.44	898.12	1,121.67	1,604,318.68953	2,344,897.22842	39.469654	-107.820793	
6,600.00	1.30	51.32	6,420.18	904.23	1,129.30	1,604,324.60312	2,344,905.01416	39.469670	-107.820766	
6,686.83	0.00	0.00	6,507.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764	
Vertical										
6,786.83	0.00	0.00	6,607.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764	
Top Gas - Approx. Top Gas										

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-6 - Slot A07
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 323-6	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	6,620.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
7,000.00	0.00	0.00	6,820.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
7,200.00	0.00	0.00	7,020.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
7,400.00	0.00	0.00	7,220.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
7,600.00	0.00	0.00	7,420.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
7,800.00	0.00	0.00	7,620.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
8,000.00	0.00	0.00	7,820.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
8,200.00	0.00	0.00	8,020.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
8,400.00	0.00	0.00	8,220.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
8,510.83	0.00	0.00	8,331.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
Cameo Coals									
8,600.00	0.00	0.00	8,420.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
8,800.00	0.00	0.00	8,620.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
9,000.00	0.00	0.00	8,820.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
9,200.00	0.00	0.00	9,020.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
9,233.83	0.00	0.00	9,054.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
Coal D									
9,386.83	0.00	0.00	9,207.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
Rollins SS									
9,400.00	0.00	0.00	9,220.17	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
9,536.83	0.00	0.00	9,357.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764
TD at 9536.83 - 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	6,607.00	904.85	1,130.07	1,604,325.20000	2,344,905.80000	39.469672	-107.820764

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,174.68	1,161.42	9 5/8"	9.625	13.500	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well RU 323-6 - Slot A07
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 323-6	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)	
2,991.76	2,916.00	Top of "G" Sand				
3,095.32	3,016.00	Base of "G" Sand				
5,549.73	5,386.00	Mesaverde				
6,786.83	6,607.00	Approx. Top Gas				
8,510.83	8,331.00	Cameo Coals				
9,233.83	9,054.00	Coal D				
9,386.83	9,207.00	Rollins SS				
9,536.83	9,357.00	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 1.50	
1,124.68	1,113.14	82.11	102.55	Hold 15.07° Inc, 51.32° Az	
5,682.15	5,513.86	822.74	1,027.52	Start Drop -1.50°/100	
6,686.83	6,507.00	904.85	1,130.07	Vertical	
6,786.83	6,607.00	904.85	1,130.07	Top Gas	
9,536.83	9,357.00	904.85	1,130.07	TD at 9536.83	