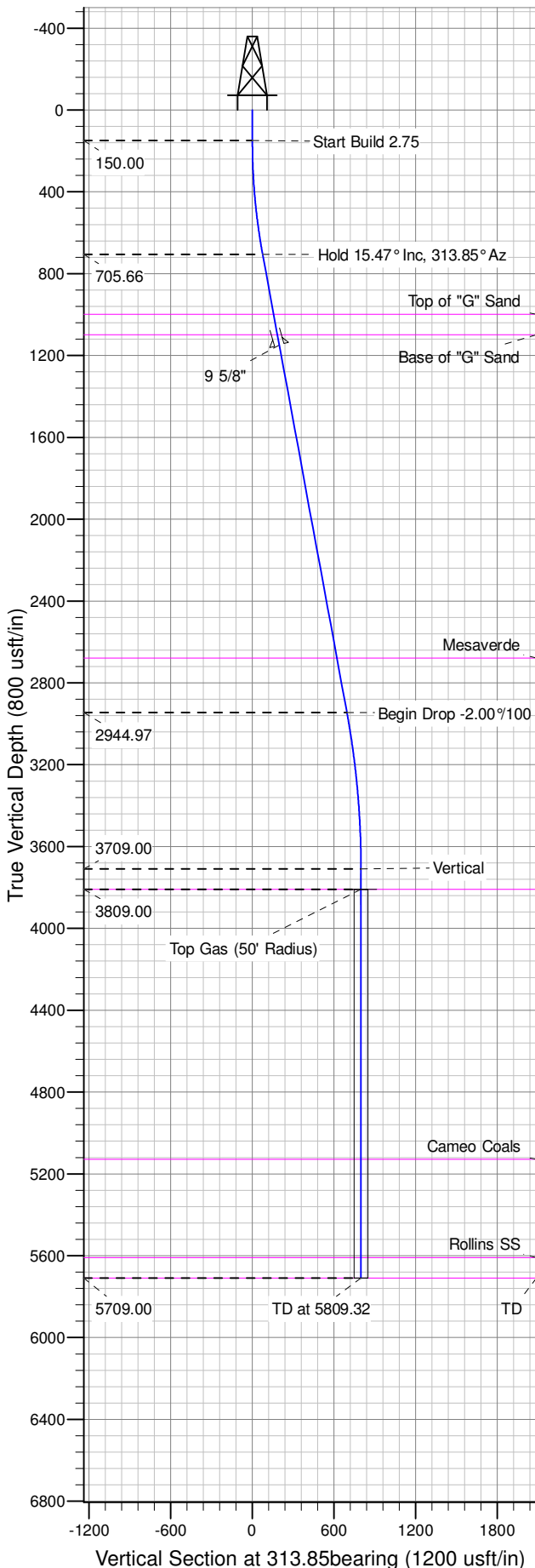
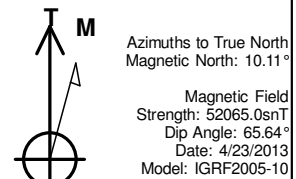
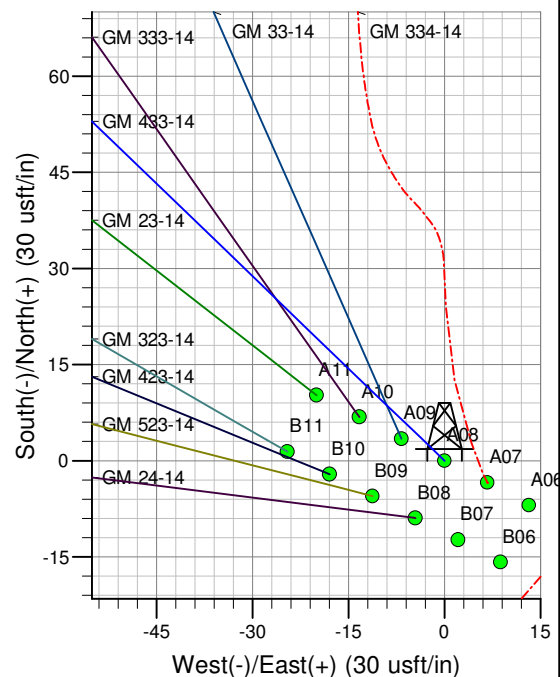
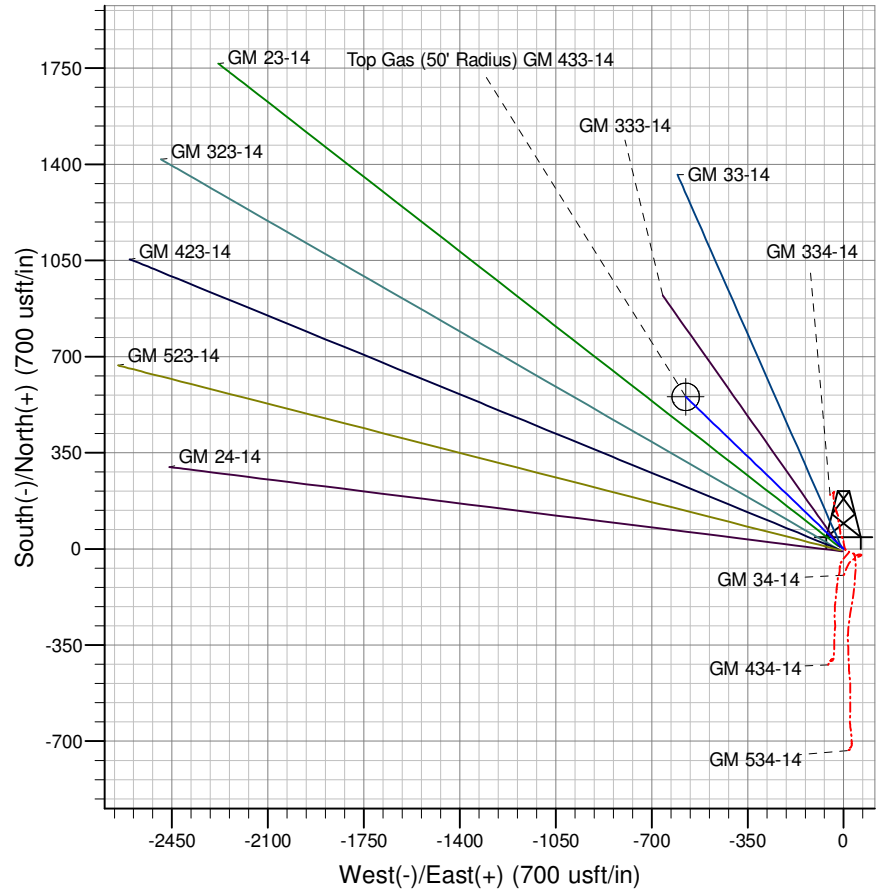




Well Name: GM 433-14
Surface Location: GM 34-14 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5173.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1592879.70 2272806.10 39.43293 -108.07491 A08
KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.75	
705.66	712.46	15.47	313.85	52.28	-54.42	75.46	75.46	Hold 15.47° Inc, 313.85° Az	
2944.97	3035.93	15.47	313.85	481.54	-501.31	695.12	695.12	Begin Drop -2.00%/100	
3709.00	3809.32	0.00	0.00	553.42	-576.14	798.88	798.88	Vertical	
3809.00	3909.32	0.00	0.00	553.42	-576.14	798.88	798.88	Top Gas	
5709.00	5809.32	0.00	0.00	553.42	-576.14	798.88	798.88	TD at 5809.32	



Project: GV 14-07S-096W
Site: GM 34-14 Pad
Well: GM 433-14
Design #2 02May14 mab

PICEANCE VLY NAD 83

GV 14-07S-096W

GM 34-14 Pad

GM 433-14 - Slot A08

Wellbore #1

Plan: Design #2 02May14 mab

Standard Planning Report - Geographic

27 May, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-14 - Slot A08
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 433-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 mab		

Project	GV 14-07S-096W, Garfield County, CO, 14-07S-096W		
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	GM 34-14 Pad		
Site Position:		Northing:	1,592,854.30 usft
From:	Map	Easting:	2,272,852.10 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.43286
		Longitude:	-108.07474
		Grid Convergence:	-1.62 °

Well	GM 433-14 - Slot A08		
Well Position	+N/-S	0.00 usft	Northing: 1,592,879.70 usft
	+E/-W	0.00 usft	Easting: 2,272,806.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.43293
			Longitude: -108.07491
			Ground Level: 5,173.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	4/23/2013	10.11	65.64	52,065

Design	Design #2 02May14 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	313.85

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	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
712.46	15.47	313.85	705.66	52.28	-54.42	2.75	2.75	0.00	313.85	
3,035.93	15.47	313.85	2,944.97	481.54	-501.31	0.00	0.00	0.00	0.00	
3,809.32	0.00	0.00	3,709.00	553.42	-576.14	2.00	-2.00	0.00	180.00	
3,909.32	0.00	0.00	3,809.00	553.42	-576.14	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
5,809.32	0.00	0.00	5,709.00	553.42	-576.14	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-14 - Slot A08
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 433-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 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	1,592,879.70	2,272,806.10	39.43293	-108.07491
150.00	0.00	0.00	150.00	0.00	0.00	1,592,879.70	2,272,806.10	39.43293	-108.07491
Start Build 2.75									
200.00	1.38	313.85	200.00	0.42	-0.43	1,592,880.12	2,272,805.68	39.43293	-108.07491
400.00	6.88	313.85	399.40	10.38	-10.80	1,592,890.38	2,272,795.60	39.43296	-108.07495
600.00	12.38	313.85	596.51	33.53	-34.91	1,592,914.20	2,272,772.16	39.43302	-108.07503
712.46	15.47	313.85	705.66	52.28	-54.42	1,592,933.49	2,272,753.18	39.43307	-108.07510
Hold 15.47° Inc, 313.85° Az									
800.00	15.47	313.85	790.02	68.45	-71.26	1,592,950.13	2,272,736.81	39.43312	-108.07516
1,000.00	15.47	313.85	982.78	105.40	-109.73	1,592,988.16	2,272,699.41	39.43322	-108.07530
1,016.83	15.47	313.85	999.00	108.51	-112.96	1,592,991.36	2,272,696.26	39.43323	-108.07531
Top of "G" Sand									
1,120.59	15.47	313.85	1,099.00	127.68	-132.92	1,593,011.08	2,272,676.86	39.43328	-108.07538
Base of "G" Sand									
1,172.47	15.47	313.85	1,149.00	137.26	-142.90	1,593,020.95	2,272,667.16	39.43330	-108.07542
9 5/8"									
1,200.00	15.47	313.85	1,175.53	142.35	-148.19	1,593,026.18	2,272,662.01	39.43332	-108.07543
1,400.00	15.47	313.85	1,368.29	179.30	-186.66	1,593,064.20	2,272,624.60	39.43342	-108.07557
1,600.00	15.47	313.85	1,561.05	216.25	-225.13	1,593,102.23	2,272,587.20	39.43352	-108.07571
1,800.00	15.47	313.85	1,753.80	253.20	-263.60	1,593,140.25	2,272,549.80	39.43362	-108.07584
2,000.00	15.47	313.85	1,946.56	290.15	-302.06	1,593,178.28	2,272,512.40	39.43372	-108.07598
2,200.00	15.47	313.85	2,139.32	327.10	-340.53	1,593,216.30	2,272,474.99	39.43383	-108.07612
2,400.00	15.47	313.85	2,332.07	364.05	-379.00	1,593,254.32	2,272,437.59	39.43393	-108.07625
2,600.00	15.47	313.85	2,524.83	401.00	-417.47	1,593,292.35	2,272,400.19	39.43403	-108.07639
2,759.97	15.47	313.85	2,679.00	430.56	-448.23	1,593,322.76	2,272,370.27	39.43411	-108.07650
Mesaverde									
2,800.00	15.47	313.85	2,717.58	437.95	-455.93	1,593,330.37	2,272,362.78	39.43413	-108.07652
3,000.00	15.47	313.85	2,910.34	474.90	-494.40	1,593,368.40	2,272,325.38	39.43423	-108.07666
3,035.93	15.47	313.85	2,944.97	481.54	-501.31	1,593,375.23	2,272,318.66	39.43425	-108.07669
Begin Drop -2.00°/100									
3,200.00	12.19	313.85	3,104.26	508.70	-529.59	1,593,403.18	2,272,291.17	39.43432	-108.07679
3,400.00	8.19	313.85	3,301.07	533.20	-555.09	1,593,428.39	2,272,266.37	39.43439	-108.07688
3,600.00	4.19	313.85	3,499.86	548.13	-570.63	1,593,443.75	2,272,251.26	39.43443	-108.07693
3,800.00	0.19	313.85	3,699.68	553.41	-576.13	1,593,449.18	2,272,245.91	39.43445	-108.07695
3,809.32	0.00	0.00	3,709.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
Vertical									
3,909.32	0.00	0.00	3,809.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
Top Gas - Approx. Top Gas									
4,000.00	0.00	0.00	3,899.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
4,200.00	0.00	0.00	4,099.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
4,400.00	0.00	0.00	4,299.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
4,600.00	0.00	0.00	4,499.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
4,800.00	0.00	0.00	4,699.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,000.00	0.00	0.00	4,899.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,200.00	0.00	0.00	5,099.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,229.32	0.00	0.00	5,129.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
Cameo Coals									
5,400.00	0.00	0.00	5,299.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,600.00	0.00	0.00	5,499.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,709.32	0.00	0.00	5,609.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
Rollins SS									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-14 - Slot A08
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 433-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 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
5,800.00	0.00	0.00	5,699.68	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
5,809.32	0.00	0.00	5,709.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695
TD at 5809.32 - 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) GM - plan hits target center - Circle (radius 50.00)	0.00	0.00	3,809.00	553.42	-576.14	1,593,449.20	2,272,245.90	39.43445	-108.07695

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,172.47	1,149.00	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
1,016.83	999.00	Top of "G" Sand				
1,120.59	1,099.00	Base of "G" Sand				
2,759.97	2,679.00	Mesaverde				
3,909.32	3,809.00	Approx. Top Gas				
5,229.32	5,129.00	Cameo Coals				
5,709.32	5,609.00	Rollins SS				
5,809.32	5,709.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
150.00	150.00	0.00	0.00	Start Build 2.75	
712.46	705.66	52.28	-54.42	Hold 15.47° Inc, 313.85° Az	
3,035.93	2,944.97	481.54	-501.31	Begin Drop -2.00°/100	
3,809.32	3,709.00	553.42	-576.14	Vertical	
3,909.32	3,809.00	553.42	-576.14	Top Gas	
5,809.32	5,709.00	553.42	-576.14	TD at 5809.32	