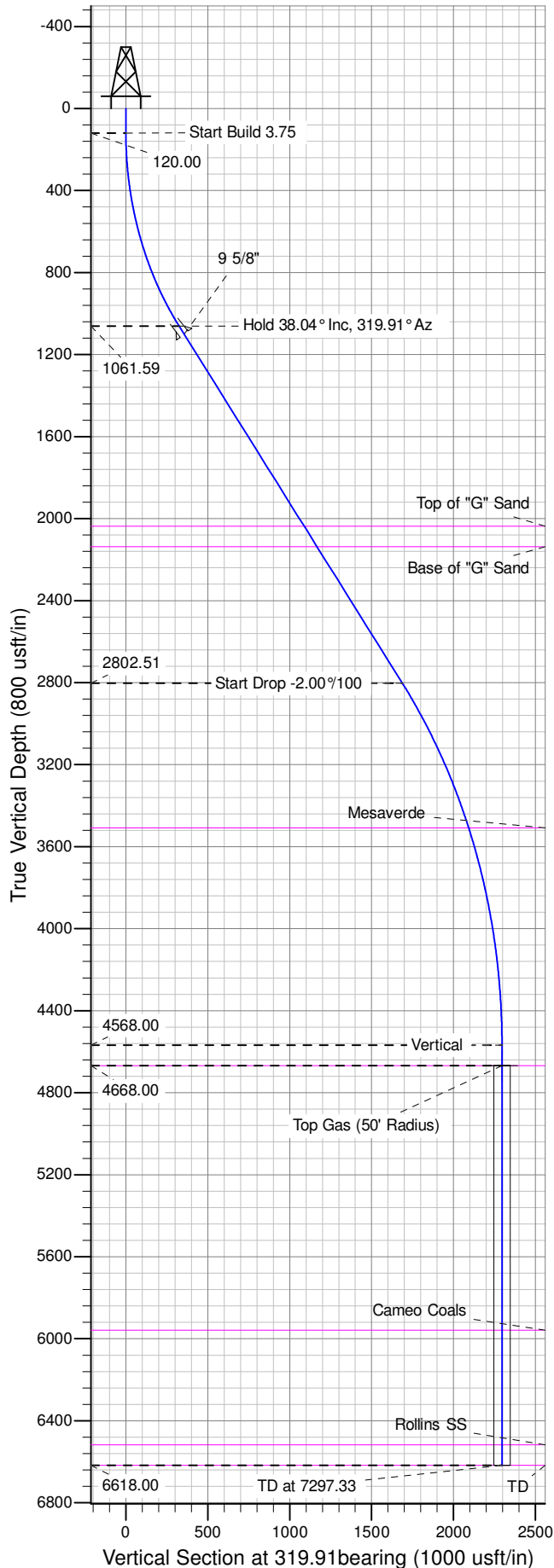
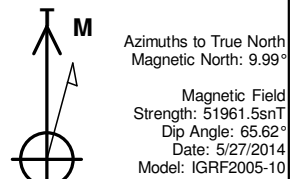
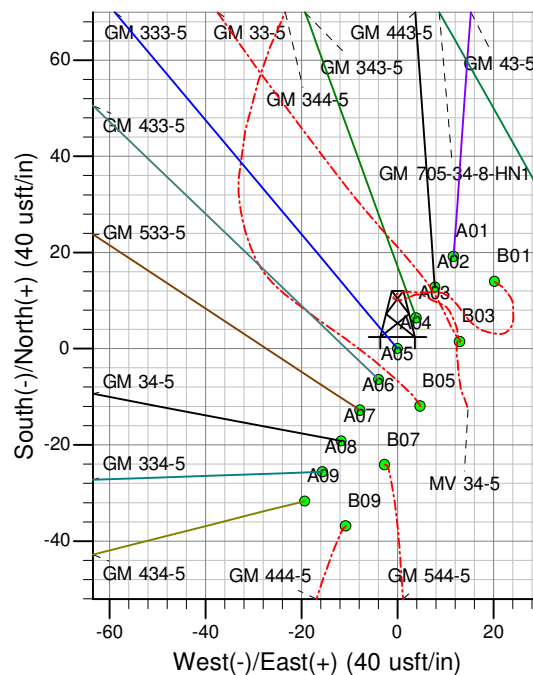
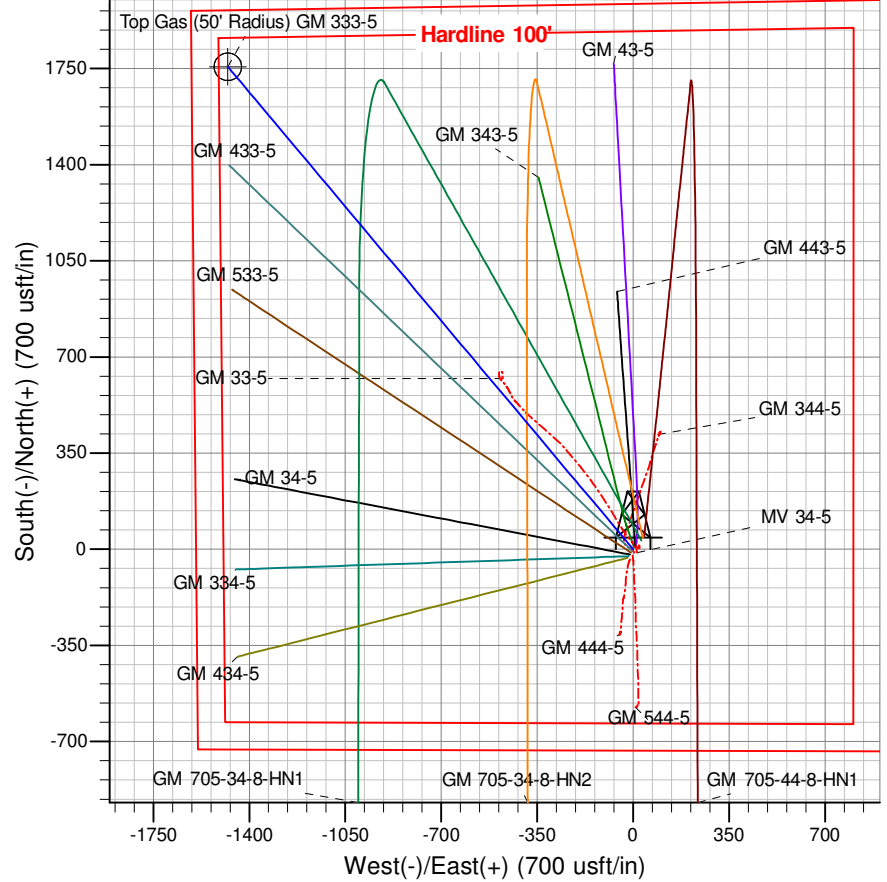




Well Name: GM 333-5
Surface Location: MV 34-5 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5977.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1603526.72000 2258804.61000 39.46105 -108.12555 A04
KELLY BUSHING @ 6003.00usft (Nabors 577 (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 3.75	
1061.59	1134.52	38.04	319.91	248.35	-209.05	324.62	324.62	Hold 38.04° Inc, 319.91° Az	
2802.51	3345.11	38.04	319.91	1290.59	-1086.37	1686.95	1686.95	Start Drop -2.00°/100	
4568.00	5247.33	0.00	0.00	1756.24	-1478.34	2295.62	2295.62	Vertical	
4668.00	5347.33	0.00	0.00	1756.24	-1478.34	2295.62	2295.62	Top Gas	
6618.00	7297.33	0.00	0.00	1756.24	-1478.34	2295.62	2295.62	TD at 7297.33	



Project: GV 05-07S-096W
Site: MV 34-5 Pad
Well: GM 333-5
Design #2 24Jul14 mab

PICEANCE VLY NAD 83

GV 05-07S-096W

MV 34-5 Pad

GM 333-5 - Slot A04

Wellbore #1

Plan: Design #2 24Jul14 mab

Standard Planning Report - Geographic

30 September, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-5 - Slot A04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 333-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 mab		

Project	GV 05-07S-096W, Garfield County, CO, 05-07S-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	MV 34-5 Pad			
Site Position:		Northing:	1,603,540.12600 usft	Latitude: 39.461085
From: Map		Easting:	2,258,825.25200 usft	Longitude: -108.125476
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.66 °

Well	GM 333-5 - Slot A04			
Well Position	+N/-S	0.00 usft	Northing:	1,603,526.72000 usft
	+E/-W	0.00 usft	Easting:	2,258,804.61000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,977.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	5/27/2014	9.99	65.62	51,961

Design	Design #2 24Jul14 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	319.91

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	
1,134.52	38.04	319.91	1,061.59	248.35	-209.05	3.75	3.75	0.00	319.91	
3,345.11	38.04	319.91	2,802.51	1,290.59	-1,086.37	0.00	0.00	0.00	0.00	
5,247.33	0.00	0.00	4,568.00	1,756.24	-1,478.34	2.00	-2.00	0.00	180.00	
5,347.33	0.00	0.00	4,668.00	1,756.24	-1,478.34	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,297.33	0.00	0.00	6,618.00	1,756.24	-1,478.34	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-5 - Slot A04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 333-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 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	1,603,526.72000	2,258,804.61000	39.461046	-108.125547	
120.00	0.00	0.00	120.00	0.00	0.00	1,603,526.72000	2,258,804.61000	39.461046	-108.125547	
Start Build 3.75										
200.00	3.00	319.91	199.96	1.60	-1.35	1,603,528.36015	2,258,803.30847	39.461051	-108.125552	
400.00	10.50	319.91	398.44	19.57	-16.48	1,603,546.76030	2,258,788.70715	39.461100	-108.125606	
600.00	18.00	319.91	592.14	57.21	-48.16	1,603,585.29491	2,258,758.12827	39.461203	-108.125718	
800.00	25.50	319.91	777.77	113.87	-95.85	1,603,643.30465	2,258,712.09503	39.461359	-108.125887	
1,000.00	33.00	319.91	952.15	188.58	-158.74	1,603,719.79694	2,258,651.39508	39.461564	-108.126110	
1,134.52	38.04	319.91	1,061.59	248.35	-209.05	1,603,780.99682	2,258,602.83032	39.461728	-108.126288	
Hold 38.04° Inc, 319.91° Az										
1,184.52	38.04	319.91	1,100.97	271.93	-228.90	1,603,805.13460	2,258,583.67594	39.461793	-108.126358	
9 5/8"										
1,200.00	38.04	319.91	1,113.16	279.22	-235.04	1,603,812.60714	2,258,577.74615	39.461813	-108.126380	
1,400.00	38.04	319.91	1,270.67	373.52	-314.41	1,603,909.15164	2,258,501.13391	39.462072	-108.126661	
1,600.00	38.04	319.91	1,428.18	467.81	-393.79	1,604,005.69614	2,258,424.52166	39.462331	-108.126942	
1,800.00	38.04	319.91	1,585.68	562.11	-473.16	1,604,102.24065	2,258,347.90941	39.462589	-108.127223	
2,000.00	38.04	319.91	1,743.19	656.40	-552.54	1,604,198.78514	2,258,271.29717	39.462848	-108.127504	
2,200.00	38.04	319.91	1,900.70	750.70	-631.91	1,604,295.32964	2,258,194.68492	39.463107	-108.127785	
2,374.34	38.04	319.91	2,038.00	832.90	-701.10	1,604,379.48973	2,258,127.90024	39.463333	-108.128031	
Top of "G" Sand										
2,400.00	38.04	319.91	2,058.20	844.99	-711.28	1,604,391.87414	2,258,118.07268	39.463366	-108.128067	
2,501.32	38.04	319.91	2,138.00	892.76	-751.49	1,604,440.78520	2,258,079.25963	39.463497	-108.128209	
Base of "G" Sand										
2,600.00	38.04	319.91	2,215.71	939.29	-790.66	1,604,488.41864	2,258,041.46043	39.463625	-108.128348	
2,800.00	38.04	319.91	2,373.22	1,033.58	-870.03	1,604,584.96313	2,257,964.84818	39.463884	-108.128629	
3,000.00	38.04	319.91	2,530.72	1,127.88	-949.40	1,604,681.50763	2,257,888.23594	39.464143	-108.128910	
3,200.00	38.04	319.91	2,688.23	1,222.17	-1,028.78	1,604,778.05213	2,257,811.62369	39.464401	-108.129191	
3,345.11	38.04	319.91	2,802.51	1,290.59	-1,086.37	1,604,848.10095	2,257,756.03692	39.464589	-108.129395	
Start Drop -2.00°/100										
3,400.00	36.95	319.91	2,846.06	1,316.15	-1,107.88	1,604,874.27066	2,257,735.27011	39.464659	-108.129471	
3,600.00	32.95	319.91	3,009.96	1,403.77	-1,181.64	1,604,963.98875	2,257,664.07493	39.464900	-108.129733	
3,800.00	28.95	319.91	3,181.46	1,482.44	-1,247.86	1,605,044.53258	2,257,600.15990	39.465116	-108.129967	
4,000.00	24.95	319.91	3,359.71	1,551.76	-1,306.22	1,605,115.50978	2,257,543.83641	39.465306	-108.130174	
4,161.52	21.72	319.91	3,508.00	1,600.70	-1,347.41	1,605,165.61026	2,257,504.07951	39.465441	-108.130320	
Mesaverde										
4,200.00	20.95	319.91	3,543.84	1,611.40	-1,356.42	1,605,176.57454	2,257,495.37888	39.465470	-108.130352	
4,400.00	16.95	319.91	3,732.97	1,661.07	-1,398.23	1,605,227.42935	2,257,455.02338	39.465606	-108.130500	
4,600.00	12.95	319.91	3,926.16	1,700.53	-1,431.44	1,605,267.82647	2,257,422.96651	39.465715	-108.130617	
4,800.00	8.95	319.91	4,122.49	1,729.58	-1,455.90	1,605,297.56907	2,257,399.36447	39.465794	-108.130704	
5,000.00	4.95	319.91	4,320.98	1,748.08	-1,471.47	1,605,316.51227	2,257,384.33222	39.465845	-108.130759	
5,200.00	0.95	319.91	4,520.67	1,755.94	-1,478.09	1,605,324.56375	2,257,377.94302	39.465867	-108.130783	
5,247.33	0.00	0.00	4,568.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
Vertical										
5,347.33	0.00	0.00	4,668.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
Top Gas - Approx. Top Gas										
5,400.00	0.00	0.00	4,720.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
5,600.00	0.00	0.00	4,920.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
5,800.00	0.00	0.00	5,120.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
6,000.00	0.00	0.00	5,320.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
6,200.00	0.00	0.00	5,520.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
6,400.00	0.00	0.00	5,720.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	
6,600.00	0.00	0.00	5,920.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-5 - Slot A04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 333-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 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
6,637.33	0.00	0.00	5,958.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
Cameo Coals									
6,800.00	0.00	0.00	6,120.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
7,000.00	0.00	0.00	6,320.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
7,197.33	0.00	0.00	6,518.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
Rollins SS									
7,200.00	0.00	0.00	6,520.67	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
7,297.33	0.00	0.00	6,618.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784
TD at 7297.33 - 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) G1 - plan hits target center - Circle (radius 50.00)	0.00	0.00	4,668.00	1,756.24	-1,478.34	1,605,324.87000	2,257,377.70000	39.465868	-108.130784

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,184.52	1,100.97	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,374.34	2,038.00	Top of "G" Sand				
2,501.32	2,138.00	Base of "G" Sand				
4,161.52	3,508.00	Mesaverde				
5,347.33	4,668.00	Approx. Top Gas				
6,637.33	5,958.00	Cameo Coals				
7,197.33	6,518.00	Rollins SS				
7,297.33	6,618.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-5 - Slot A04
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Project:	GV 05-07S-096W	MD Reference:	KELLY BUSHING @ 6003.00usft (Nabors 577 (26' RKB) mab)
Site:	MV 34-5 Pad	North Reference:	True
Well:	GM 333-5	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 24Jul14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.00	120.00	0.00	0.00	Start Build 3.75
1,134.52	1,061.59	248.35	-209.05	Hold 38.04° Inc, 319.91° Az
3,345.11	2,802.51	1,290.59	-1,086.37	Start Drop -2.00°/100
5,247.33	4,568.00	1,756.24	-1,478.34	Vertical
5,347.33	4,668.00	1,756.24	-1,478.34	Top Gas
7,297.33	6,618.00	1,756.24	-1,478.34	TD at 7297.33