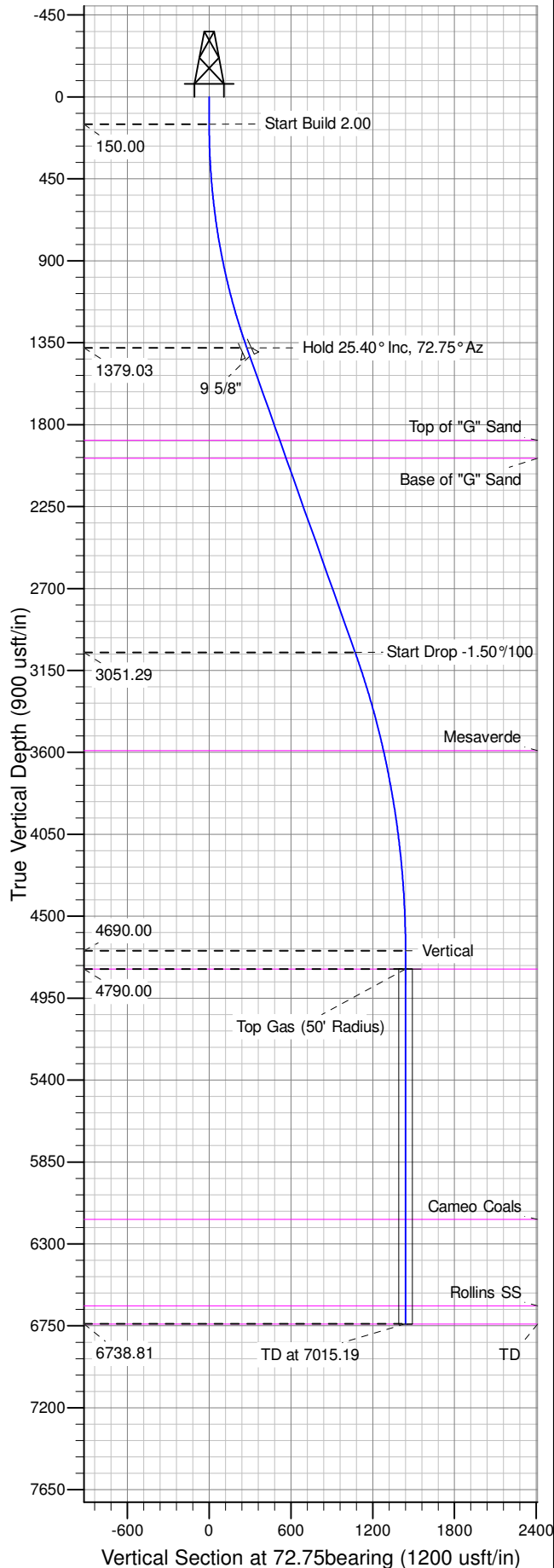
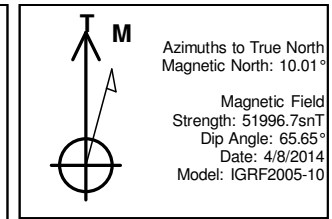
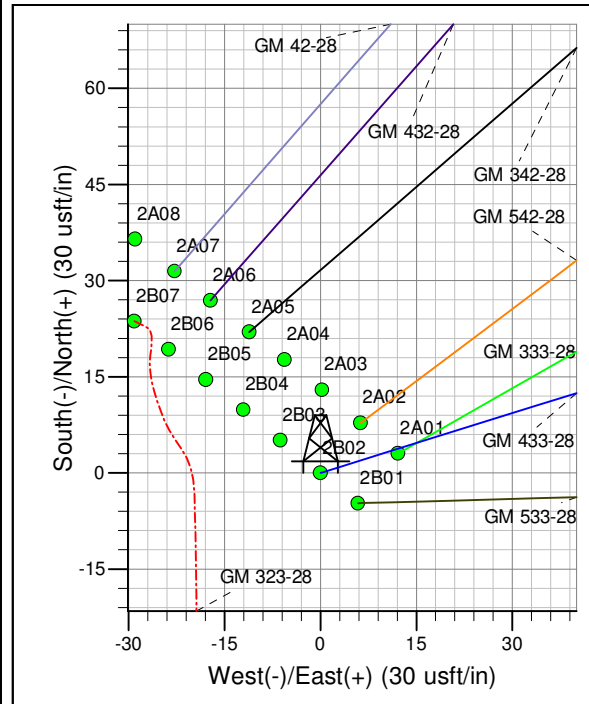
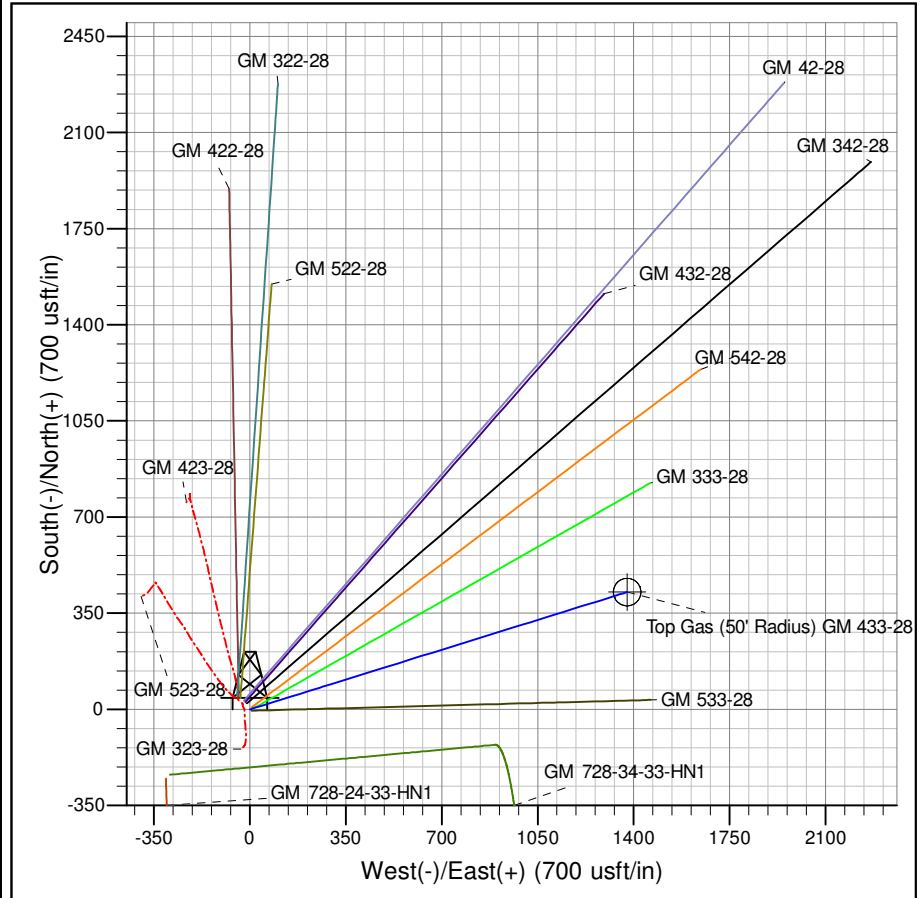




Well Name: GM 433-28
Surface Location: GM 323-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5476.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1614732.80 2262186.90 39.49207 -108.11471 2B02
KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)



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 2.00		
1379.03	1420.25	25.40	72.75	82.15	264.57	277.03	277.03	Hold 25.40° Inc, 72.75° Az		
3051.29	3271.53	25.40	72.75	317.66	1023.07	1071.25	1071.25	Start Drop -1.50%/100		
4690.00	4965.19	0.00	0.00	427.19	1375.83	1440.63	1440.63	Vertical		
4790.00	5065.19	0.00	0.00	427.19	1375.83	1440.63	1440.63	Top Gas		
6738.81	7014.00	0.00	0.00	427.19	1375.83	1440.63	1440.63	TD at 7015.19		



Magnetic Field
Strength: 51996.7snT
Dip Angle: 65.65°
Date: 4/8/2014
Model: IGRF2005-10

Project: GV 28-06S-096W
Site: GM 323-28 Pad
Well: GM 433-28
Design #1 08Apr14 mab

PICEANCE VLY NAD 83

GV 28-06S-096W

GM 323-28 Pad

GM 433-28 - Slot 2B02

Wellbore #1

Plan: Design #1 08Apr14 mab

Standard Planning Report - Geographic

25 June, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-28 - Slot 2B02
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Site:	GM 323-28 Pad	North Reference:	True
Well:	GM 433-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Apr14 mab		

Project	GV 28-06S-096W, 28-06S-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 323-28 Pad			
Site Position:		Northing:	1,614,757.30 usft	Latitude: 39.49213
From: Map		Easting:	2,262,158.50 usft	Longitude: -108.11482
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.65 °

Well	GM 433-28 - Slot 2B02			
Well Position	+N/-S	0.00 usft	Northing:	1,614,732.80 usft
	+E/-W	0.00 usft	Easting:	2,262,186.90 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	5,476.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	4/8/2014	10.01	65.65	51,997

Design	Design #1 08Apr14 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	72.75

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	
1,420.25	25.40	72.75	1,379.03	82.15	264.57	2.00	2.00	0.00	72.75	
3,271.53	25.40	72.75	3,051.29	317.66	1,023.07	0.00	0.00	0.00	0.00	
4,965.19	0.00	0.00	4,690.00	427.19	1,375.83	1.50	-1.50	0.00	180.00	
5,065.19	0.00	0.00	4,790.00	427.19	1,375.83	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,015.19	0.00	0.00	6,740.00	427.19	1,375.83	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-28 - Slot 2B02
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Site:	GM 323-28 Pad	North Reference:	True
Well:	GM 433-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Apr14 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	1,614,732.80	2,262,186.90	39.49207	-108.11472
150.00	0.00	0.00	150.00	0.00	0.00	1,614,732.80	2,262,186.90	39.49207	-108.11472
Start Build 2.00									
200.00	1.00	72.75	200.00	0.13	0.42	1,614,732.91	2,262,187.32	39.49207	-108.11472
400.00	5.00	72.75	399.68	3.23	10.41	1,614,735.73	2,262,197.40	39.49208	-108.11468
600.00	9.00	72.75	598.15	10.46	33.68	1,614,742.28	2,262,220.87	39.49210	-108.11460
800.00	13.00	72.75	794.44	21.77	70.12	1,614,752.54	2,262,257.62	39.49213	-108.11447
1,000.00	17.00	72.75	987.58	37.12	119.55	1,614,766.46	2,262,307.46	39.49217	-108.11429
1,200.00	21.00	72.75	1,176.65	56.42	181.72	1,614,783.96	2,262,370.16	39.49222	-108.11407
1,400.00	25.00	72.75	1,360.71	79.59	256.34	1,614,804.97	2,262,445.41	39.49229	-108.11381
1,420.25	25.40	72.75	1,379.03	82.15	264.57	1,614,807.29	2,262,453.71	39.49229	-108.11378
Hold 25.40° Inc, 72.75° Az									
1,470.25	25.40	72.75	1,424.20	88.51	285.06	1,614,813.06	2,262,474.38	39.49231	-108.11371
9 5/8"									
1,600.00	25.40	72.75	1,541.40	105.01	338.22	1,614,828.03	2,262,527.99	39.49236	-108.11352
1,800.00	25.40	72.75	1,722.06	130.46	420.16	1,614,851.10	2,262,610.63	39.49243	-108.11323
1,980.38	25.40	72.75	1,885.00	153.40	494.07	1,614,871.91	2,262,685.16	39.49249	-108.11297
Top of "G" Sand									
2,000.00	25.40	72.75	1,902.72	155.90	502.11	1,614,874.18	2,262,693.26	39.49250	-108.11294
2,091.09	25.40	72.75	1,985.00	167.49	539.43	1,614,884.68	2,262,730.90	39.49253	-108.11281
Base of "G" Sand									
2,200.00	25.40	72.75	2,083.38	181.34	584.05	1,614,897.25	2,262,775.90	39.49257	-108.11265
2,400.00	25.40	72.75	2,264.04	206.79	665.99	1,614,920.32	2,262,858.54	39.49264	-108.11236
2,600.00	25.40	72.75	2,444.70	232.23	747.94	1,614,943.40	2,262,941.18	39.49271	-108.11207
2,800.00	25.40	72.75	2,625.36	257.67	829.88	1,614,966.47	2,263,023.82	39.49278	-108.11178
3,000.00	25.40	72.75	2,806.02	283.11	911.82	1,614,989.54	2,263,106.46	39.49285	-108.11149
3,200.00	25.40	72.75	2,986.68	308.56	993.77	1,615,012.62	2,263,189.09	39.49292	-108.11120
3,271.53	25.40	72.75	3,051.29	317.66	1,023.07	1,615,020.87	2,263,218.65	39.49294	-108.11109
Start Drop -1.50°/100									
3,400.00	23.48	72.75	3,168.24	333.42	1,073.84	1,615,035.16	2,263,269.84	39.49298	-108.11091
3,600.00	20.48	72.75	3,353.69	355.61	1,145.31	1,615,055.29	2,263,341.92	39.49304	-108.11066
3,800.00	17.48	72.75	3,542.80	374.90	1,207.42	1,615,072.78	2,263,404.56	39.49310	-108.11044
3,849.39	16.74	72.75	3,590.00	379.20	1,221.29	1,615,076.68	2,263,418.55	39.49311	-108.11039
Mesaverde									
4,000.00	14.48	72.75	3,735.05	391.22	1,259.99	1,615,087.58	2,263,457.58	39.49314	-108.11025
4,200.00	11.48	72.75	3,929.92	404.54	1,302.88	1,615,099.65	2,263,500.83	39.49318	-108.11010
4,400.00	8.48	72.75	4,126.87	414.81	1,335.97	1,615,108.97	2,263,534.20	39.49321	-108.10998
4,600.00	5.48	72.75	4,325.37	422.01	1,359.17	1,615,115.51	2,263,557.60	39.49323	-108.10990
4,800.00	2.48	72.75	4,524.86	426.13	1,372.42	1,615,119.24	2,263,570.96	39.49324	-108.10985
4,965.19	0.00	0.00	4,690.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
Vertical									
5,000.00	0.00	0.00	4,724.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
5,065.19	0.00	0.00	4,790.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
Top Gas - Approx. Top Gas									
5,200.00	0.00	0.00	4,924.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
5,400.00	0.00	0.00	5,124.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
5,600.00	0.00	0.00	5,324.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
5,800.00	0.00	0.00	5,524.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
6,000.00	0.00	0.00	5,724.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
6,200.00	0.00	0.00	5,924.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
6,400.00	0.00	0.00	6,124.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-28 - Slot 2B02
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Site:	GM 323-28 Pad	North Reference:	True
Well:	GM 433-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Apr14 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
6,440.19	0.00	0.00	6,165.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
Cameo Coals									
6,600.00	0.00	0.00	6,324.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
6,800.00	0.00	0.00	6,524.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
6,915.19	0.00	0.00	6,640.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
Rollins SS									
7,000.00	0.00	0.00	6,724.81	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
7,015.19	0.00	0.00	6,740.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984
TD at 7015.19 - 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	4,790.00	427.19	1,375.83	1,615,120.20	2,263,574.40	39.49324	-108.10984

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,470.25	1,424.20	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
1,980.38	1,885.00	Top of "G" Sand				
2,091.09	1,985.00	Base of "G" Sand				
3,849.39	3,590.00	Mesaverde				
5,065.19	4,790.00	Approx. Top Gas				
6,440.19	6,165.00	Cameo Coals				
6,915.19	6,640.00	Rollins SS				
7,015.19	6,740.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 433-28 - Slot 2B02
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Project:	GV 28-06S-096W	MD Reference:	KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)
Site:	GM 323-28 Pad	North Reference:	True
Well:	GM 433-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Apr14 mab		

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 2.00
1,420.25	1,379.03	82.15	264.57	Hold 25.40° Inc, 72.75° Az
3,271.53	3,051.29	317.66	1,023.07	Start Drop -1.50°/100
4,965.19	4,690.00	427.19	1,375.83	Vertical
5,065.19	4,790.00	427.19	1,375.83	Top Gas
7,015.19	6,740.00	427.19	1,375.83	TD at 7015.19