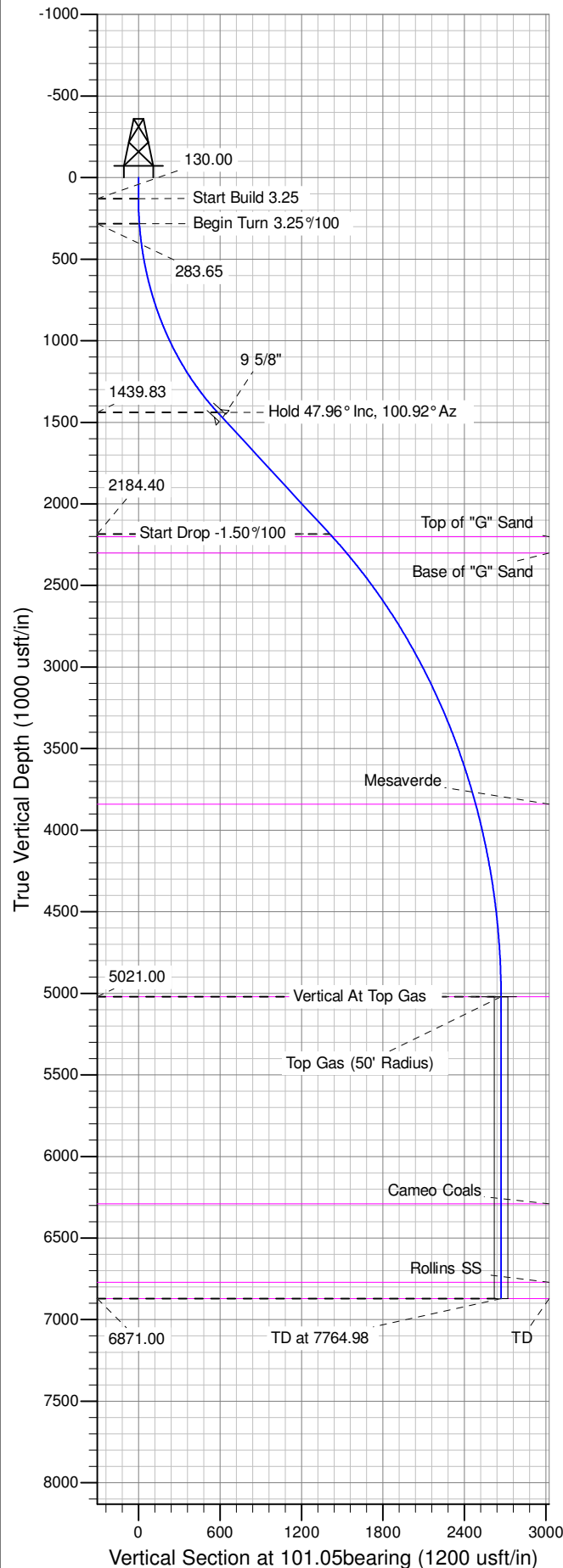
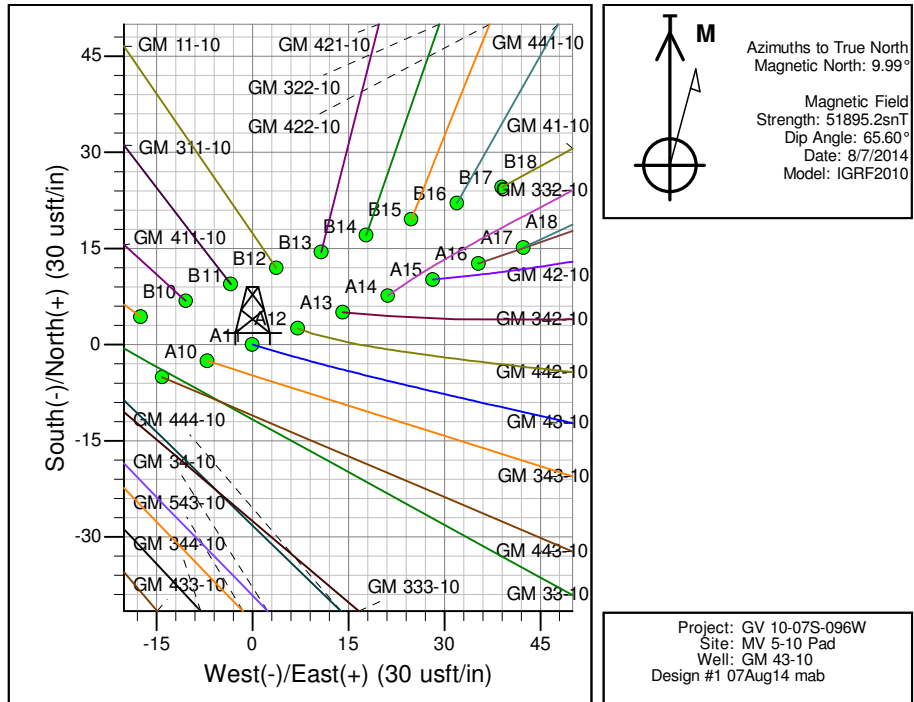
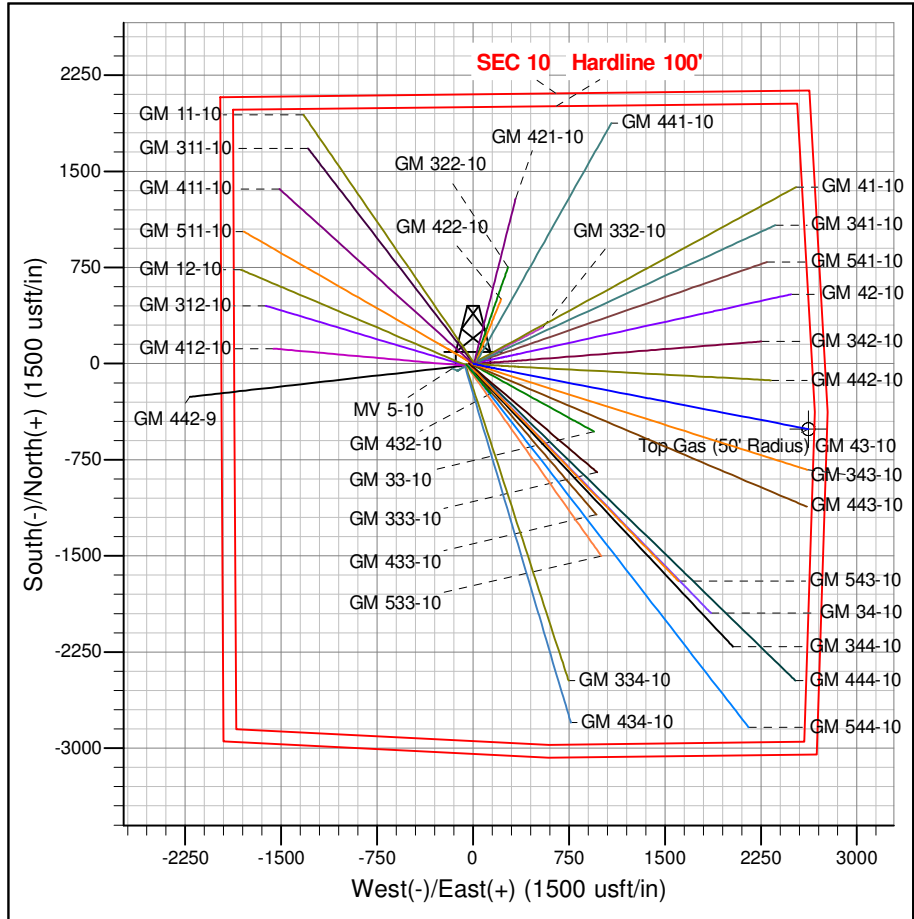




Well Name: GM 43-10
Surface Location: MV 5-10 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6148.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1600365.65 2266945.84 39.45301 -108.09640 A12
KELLY BUSHING @ 6174.00usft (Original Well Elev)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
130.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.25
283.65	283.85	5.00	106.00	-1.85	6.45	6.68	6.71	6.71	Begin Turn 3.25°/100
1439.83	1606.20	47.96	100.92	-116.16	570.66	582.34	582.43	582.43	Hold 47.96° Inc, 100.92° Az
2184.40	2717.97	47.96	100.92	-272.57	1381.33	1407.96	1408.05	1408.05	Start Drop -1.50°/100
5021.00	5914.98	0.00	358.37	-511.57	2620.09	2669.57	2669.65	2669.65	Vertical At Top Gas
6871.00	7764.98	0.00	0.00	-511.57	2620.09	2669.57	2669.65	2669.65	TD at 7764.98



PICEANCE VLY NAD 83

GV 10-07S-096W

MV 5-10 Pad

GM 43-10 - Slot A12

Wellbore #1

Plan: Design #1 07Aug14 mab

Standard Planning Report - Geographic

14 October, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 43-10 - Slot A12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 43-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Project	GV 10-07S-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 5-10 Pad		
Site Position:		Northing:	1,600,354.00 usft
From:	Map	Easting:	2,266,910.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.45298
		Longitude:	-108.09653
		Grid Convergence:	-1.64 °

Well	GM 43-10 - Slot A12		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.45301
		Longitude:	-108.09641
		Ground Level:	6,148.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/7/2014	9.99	65.60	51,895

Design	Design #1 07Aug14 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	101.05

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	
130.00	0.00	0.00	130.00	0.00	0.00	0.00	0.00	0.00	0.00	
283.85	5.00	106.00	283.65	-1.85	6.45	3.25	3.25	0.00	106.00	
1,606.20	47.96	100.92	1,439.83	-116.16	570.66	3.25	3.25	-0.38	-5.54	
2,717.97	47.96	100.92	2,184.40	-272.57	1,381.33	0.00	0.00	0.00	0.00	
5,914.98	0.00	358.37	5,021.00	-511.57	2,620.09	1.50	-1.50	0.00	180.00	Top Gas (50' Radius)
7,764.98	0.00	358.37	6,871.00	-511.57	2,620.09	0.00	0.00	0.00	358.37	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 43-10 - Slot A12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 43-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 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	1,600,365.65	2,266,945.84	39.45301	-108.09641
130.00	0.00	0.00	130.00	0.00	0.00	1,600,365.65	2,266,945.84	39.45301	-108.09641
Start Build 3.25									
200.00	2.28	106.00	199.98	-0.38	1.34	1,600,365.23	2,266,947.17	39.45301	-108.09640
283.85	5.00	106.00	283.65	-1.85	6.45	1,600,363.61	2,266,952.24	39.45301	-108.09638
Begin Turn 3.25°/100									
400.00	8.76	103.61	398.95	-5.33	19.92	1,600,359.75	2,266,965.60	39.45300	-108.09634
600.00	15.26	102.25	594.46	-14.51	60.49	1,600,349.42	2,267,005.89	39.45297	-108.09619
800.00	21.76	101.69	784.02	-27.62	122.58	1,600,334.54	2,267,067.57	39.45294	-108.09597
1,000.00	28.26	101.38	965.17	-44.49	205.37	1,600,315.31	2,267,149.85	39.45289	-108.09568
1,200.00	34.75	101.18	1,135.60	-64.91	307.82	1,600,291.97	2,267,251.67	39.45284	-108.09532
1,400.00	41.25	101.04	1,293.11	-88.61	428.59	1,600,264.83	2,267,371.71	39.45277	-108.09489
1,600.00	47.75	100.92	1,435.67	-115.29	566.14	1,600,234.23	2,267,508.44	39.45270	-108.09440
1,606.20	47.96	100.92	1,439.83	-116.16	570.66	1,600,233.23	2,267,512.92	39.45270	-108.09439
Hold 47.96° Inc, 100.92° Az									
1,656.20	47.96	100.92	1,473.32	-123.19	607.12	1,600,225.16	2,267,549.16	39.45268	-108.09426
9 5/8"									
1,800.00	47.96	100.92	1,569.62	-143.43	711.97	1,600,201.94	2,267,653.39	39.45262	-108.09389
2,000.00	47.96	100.92	1,703.57	-171.56	857.81	1,600,169.65	2,267,798.36	39.45254	-108.09337
2,200.00	47.96	100.92	1,837.51	-199.70	1,003.64	1,600,137.36	2,267,943.32	39.45247	-108.09285
2,400.00	47.96	100.92	1,971.45	-227.84	1,149.48	1,600,105.07	2,268,088.29	39.45239	-108.09234
2,600.00	47.96	100.92	2,105.39	-255.97	1,295.31	1,600,072.78	2,268,233.25	39.45231	-108.09182
2,717.97	47.96	100.92	2,184.40	-272.57	1,381.33	1,600,053.73	2,268,318.76	39.45227	-108.09152
Start Drop -1.50°/100									
2,742.67	47.58	100.92	2,201.00	-276.03	1,399.29	1,600,049.75	2,268,336.61	39.45226	-108.09145
Top of "G" Sand									
2,800.00	46.72	100.92	2,239.99	-284.00	1,440.56	1,600,040.61	2,268,377.64	39.45223	-108.09131
2,887.94	45.41	100.92	2,301.00	-295.99	1,502.74	1,600,026.85	2,268,439.44	39.45220	-108.09109
Base of "G" Sand									
3,000.00	43.72	100.92	2,380.84	-310.89	1,579.95	1,600,009.75	2,268,516.19	39.45216	-108.09081
3,200.00	40.72	100.92	2,528.92	-336.35	1,711.91	1,599,980.53	2,268,647.36	39.45209	-108.09034
3,400.00	37.72	100.92	2,683.84	-360.31	1,836.08	1,599,953.04	2,268,770.79	39.45203	-108.08990
3,600.00	34.72	100.92	2,845.16	-382.69	1,952.11	1,599,927.34	2,268,886.14	39.45196	-108.08949
3,800.00	31.72	100.92	3,012.45	-403.45	2,059.70	1,599,903.52	2,268,993.08	39.45191	-108.08911
4,000.00	28.72	100.92	3,185.24	-422.52	2,158.55	1,599,881.64	2,269,091.34	39.45185	-108.08876
4,200.00	25.72	100.92	3,363.06	-439.85	2,248.37	1,599,861.74	2,269,180.63	39.45181	-108.08844
4,400.00	22.72	100.92	3,545.43	-455.40	2,328.94	1,599,843.91	2,269,260.72	39.45176	-108.08816
4,600.00	19.72	100.92	3,731.84	-469.11	2,400.03	1,599,828.16	2,269,331.38	39.45173	-108.08791
4,715.35	17.99	100.92	3,841.00	-476.18	2,436.64	1,599,820.06	2,269,367.77	39.45171	-108.08778
Mesaverde									
4,800.00	16.72	100.92	3,921.79	-480.96	2,461.44	1,599,814.57	2,269,392.42	39.45169	-108.08769
5,000.00	13.72	100.92	4,114.75	-490.91	2,513.00	1,599,803.15	2,269,443.68	39.45167	-108.08751
5,200.00	10.72	100.92	4,310.19	-498.93	2,554.58	1,599,793.94	2,269,485.01	39.45164	-108.08736
5,400.00	7.72	100.92	4,507.58	-505.01	2,586.06	1,599,786.97	2,269,516.30	39.45163	-108.08725
5,600.00	4.72	100.92	4,706.38	-509.11	2,607.35	1,599,782.26	2,269,537.46	39.45162	-108.08717
5,800.00	1.72	100.92	4,906.04	-511.24	2,618.39	1,599,779.81	2,269,548.44	39.45161	-108.08713
5,914.98	0.00	358.37	5,021.00	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
Vertical At Top Gas - Approx. Top Gas									
6,000.00	0.00	0.00	5,106.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
6,200.00	0.00	0.00	5,306.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
6,400.00	0.00	0.00	5,506.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
6,600.00	0.00	0.00	5,706.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 43-10 - Slot A12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 43-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 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	5,906.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
7,000.00	0.00	0.00	6,106.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
7,184.98	0.00	0.00	6,291.00	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
Cameo Coals									
7,200.00	0.00	0.00	6,306.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
7,400.00	0.00	0.00	6,506.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
7,600.00	0.00	0.00	6,706.02	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
7,664.98	0.00	0.00	6,771.00	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
Rollins SS									
7,764.98	0.00	0.00	6,871.00	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
TD at 7764.98 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (50' Radius) G1	0.00	0.00	5,021.00	-511.57	2,620.09	1,599,779.44	2,269,550.13	39.45161	-108.08713
- plan hits target center									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,656.20	1,473.32	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,742.67	2,201.00	Top of "G" Sand				
2,887.94	2,301.00	Base of "G" Sand				
4,715.35	3,841.00	Mesaverde				
5,914.98	5,021.00	Approx. Top Gas				
7,184.98	6,291.00	Cameo Coals				
7,664.98	6,771.00	Rollins SS				
7,764.98	6,871.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 43-10 - Slot A12
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Original Well Elev)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 43-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 07Aug14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
130.00	130.00	0.00	0.00	Start Build 3.25
283.85	283.65	-1.85	6.45	Begin Turn 3.25°/100
1,606.20	1,439.83	-116.16	570.66	Hold 47.96° Inc, 100.92° Az
2,717.97	2,184.40	-272.57	1,381.33	Start Drop -1.50°/100
5,914.98	5,021.00	-511.57	2,620.09	Vertical At Top Gas
7,764.98	6,871.00	-511.57	2,620.09	TD at 7764.98