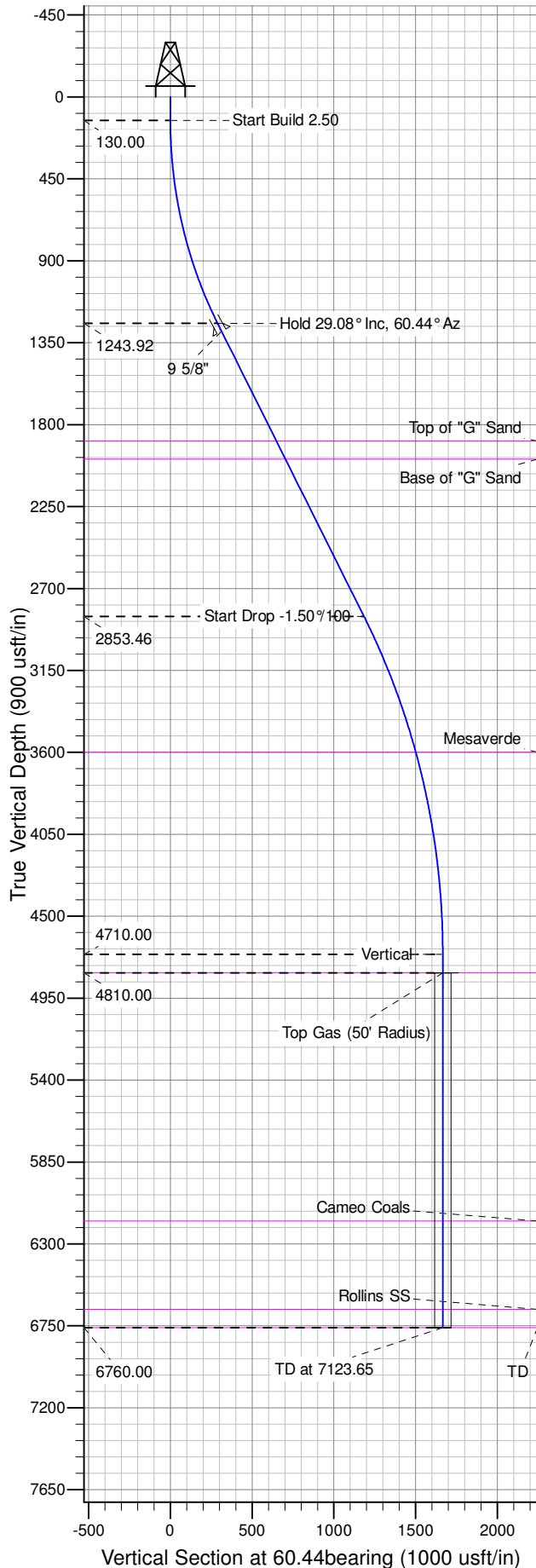
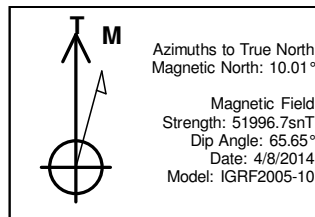
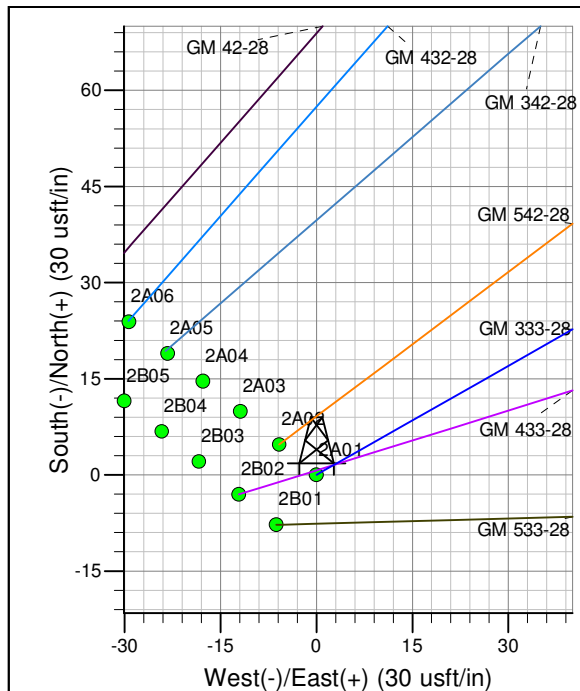
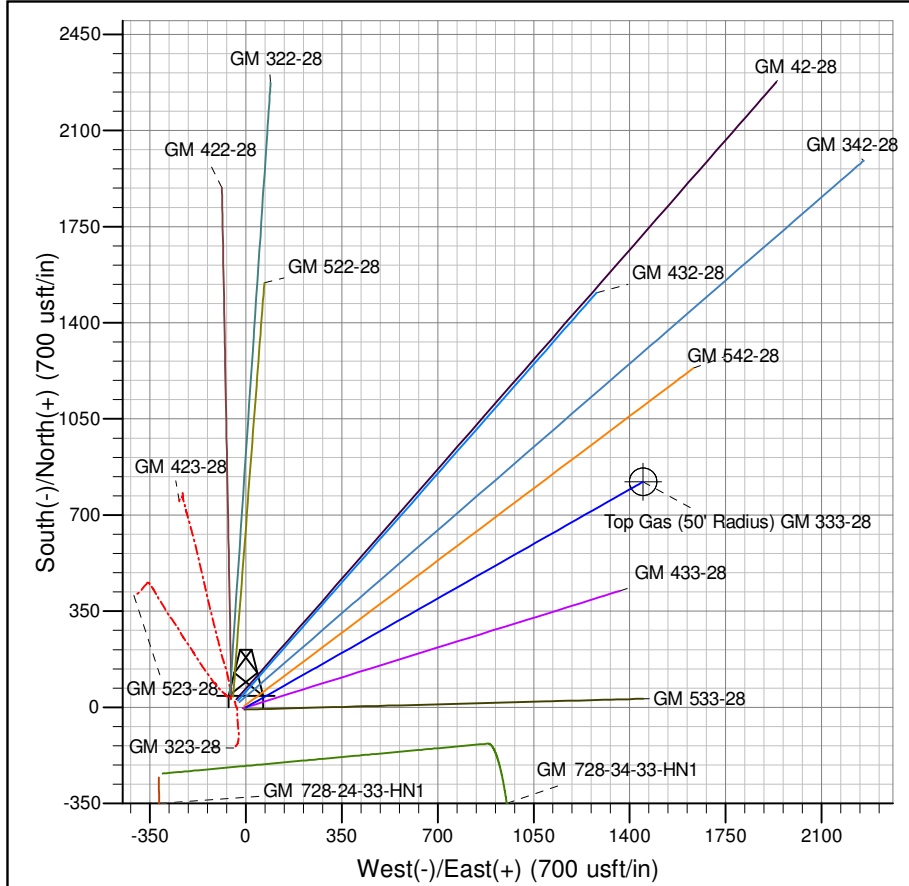




Well Name: GM 333-28
Surface Location: GM 323-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5476.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1614735.50 2262199.10 39.49208 -108.11467 2A01
KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)



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	Start Build 2.50	
1243.92	1293.23	29.08	60.44	142.53	251.31	288.92	288.92	Hold 29.08° Inc, 60.44° Az	
2853.46	3134.94	29.08	60.44	584.12	1029.96	1184.06	1184.06	Start Drop -1.50°/100	
4710.00	5073.65	0.00	0.00	821.67	1448.81	1665.59	1665.59	Vertical	
4810.00	5173.65	0.00	0.00	821.67	1448.81	1665.59	1665.59	Top Gas	
6760.00	7123.65	0.00	0.00	821.67	1448.81	1665.59	1665.59	TD at 7123.65	



Project: GV 28-06S-096W
Site: GM 323-28 Pad
Well: GM 333-28
Design #1 08Apr14 mab

PICEANCE VLY NAD 83

GV 28-06S-096W

GM 323-28 Pad

GM 333-28 - Slot 2A01

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 333-28 - Slot 2A01
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 333-28	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 333-28 - Slot 2A01			
Well Position	+N/-S	0.00 usft	Northing:	1,614,735.50 usft
	+E/-W	0.00 usft	Easting:	2,262,199.10 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	60.44

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	
1,293.23	29.08	60.44	1,243.92	142.53	251.31	2.50	2.50	0.00	60.44	
3,134.94	29.08	60.44	2,853.46	584.12	1,029.96	0.00	0.00	0.00	0.00	
5,073.65	0.00	0.00	4,710.00	821.67	1,448.81	1.50	-1.50	0.00	180.00	
5,173.65	0.00	0.00	4,810.00	821.67	1,448.81	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,123.65	0.00	0.00	6,760.00	821.67	1,448.81	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-28 - Slot 2A01
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 333-28	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	1,614,735.50	2,262,199.10	39.49208	-108.11467	
130.00	0.00	0.00	130.00	0.00	0.00	1,614,735.50	2,262,199.10	39.49208	-108.11467	
Start Build 2.50										
200.00	1.75	60.44	199.99	0.53	0.93	1,614,736.00	2,262,200.05	39.49208	-108.11467	
400.00	6.75	60.44	399.38	7.84	13.82	1,614,742.93	2,262,213.14	39.49210	-108.11463	
600.00	11.75	60.44	596.71	23.69	41.77	1,614,757.97	2,262,241.54	39.49214	-108.11453	
800.00	16.75	60.44	790.50	47.97	84.58	1,614,781.01	2,262,285.03	39.49221	-108.11437	
1,000.00	21.75	60.44	979.26	80.49	141.92	1,614,811.86	2,262,343.27	39.49230	-108.11417	
1,200.00	26.75	60.44	1,161.55	121.00	213.35	1,614,850.30	2,262,415.84	39.49241	-108.11392	
1,293.23	29.08	60.44	1,243.92	142.53	251.31	1,614,870.73	2,262,454.40	39.49247	-108.11378	
Hold 29.08° Inc, 60.44° Az										
1,343.23	29.08	60.44	1,287.62	154.52	272.45	1,614,882.10	2,262,475.88	39.49250	-108.11371	
9 5/8"										
1,400.00	29.08	60.44	1,337.24	168.13	296.46	1,614,895.02	2,262,500.26	39.49254	-108.11362	
1,600.00	29.08	60.44	1,512.02	216.08	381.01	1,614,940.52	2,262,586.16	39.49267	-108.11332	
1,800.00	29.08	60.44	1,686.81	264.04	465.57	1,614,986.02	2,262,672.06	39.49280	-108.11302	
2,000.00	29.08	60.44	1,861.60	311.99	550.13	1,615,031.52	2,262,757.95	39.49293	-108.11273	
2,032.50	29.08	60.44	1,890.00	319.78	563.87	1,615,038.91	2,262,771.91	39.49295	-108.11268	
Top of "G" Sand										
2,146.92	29.08	60.44	1,990.00	347.22	612.24	1,615,064.94	2,262,821.06	39.49303	-108.11251	
Base of "G" Sand										
2,200.00	29.08	60.44	2,036.38	359.95	634.68	1,615,077.02	2,262,843.85	39.49306	-108.11243	
2,400.00	29.08	60.44	2,211.17	407.90	719.24	1,615,122.51	2,262,929.75	39.49320	-108.11213	
2,600.00	29.08	60.44	2,385.96	455.86	803.79	1,615,168.01	2,263,015.65	39.49333	-108.11183	
2,800.00	29.08	60.44	2,560.75	503.81	888.35	1,615,213.51	2,263,101.55	39.49346	-108.11153	
3,000.00	29.08	60.44	2,735.53	551.76	972.91	1,615,259.01	2,263,187.44	39.49359	-108.11123	
3,134.94	29.08	60.44	2,853.46	584.12	1,029.96	1,615,289.71	2,263,245.40	39.49368	-108.11103	
Start Drop -1.50°/100										
3,200.00	28.10	60.44	2,910.59	599.48	1,057.04	1,615,304.29	2,263,272.91	39.49372	-108.11093	
3,400.00	25.10	60.44	3,089.39	643.66	1,134.94	1,615,346.20	2,263,352.05	39.49384	-108.11065	
3,600.00	22.10	60.44	3,272.64	683.16	1,204.60	1,615,383.68	2,263,422.81	39.49395	-108.11041	
3,800.00	19.10	60.44	3,459.82	717.88	1,265.81	1,615,416.62	2,263,485.00	39.49405	-108.11019	
3,947.40	16.89	60.44	3,600.00	740.35	1,305.43	1,615,437.94	2,263,525.24	39.49411	-108.11005	
Mesaverde										
4,000.00	16.10	60.44	3,650.43	747.72	1,318.42	1,615,444.93	2,263,538.44	39.49413	-108.11000	
4,200.00	13.10	60.44	3,843.95	772.59	1,362.29	1,615,468.54	2,263,583.00	39.49420	-108.10985	
4,400.00	10.10	60.44	4,039.84	792.44	1,397.28	1,615,487.36	2,263,618.55	39.49425	-108.10972	
4,600.00	7.10	60.44	4,237.56	807.20	1,423.30	1,615,501.37	2,263,644.98	39.49429	-108.10963	
4,800.00	4.10	60.44	4,436.58	816.83	1,440.29	1,615,510.51	2,263,662.24	39.49432	-108.10957	
5,000.00	1.10	60.44	4,636.35	821.31	1,448.20	1,615,514.76	2,263,670.27	39.49433	-108.10954	
5,073.65	0.00	0.00	4,710.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
Vertical										
5,173.65	0.00	0.00	4,810.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
Top Gas - Approx. Top Gas										
5,200.00	0.00	0.00	4,836.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
5,400.00	0.00	0.00	5,036.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
5,600.00	0.00	0.00	5,236.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
5,800.00	0.00	0.00	5,436.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
6,000.00	0.00	0.00	5,636.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
6,200.00	0.00	0.00	5,836.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
6,400.00	0.00	0.00	6,036.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-28 - Slot 2A01
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 333-28	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	
6,538.65	0.00	0.00	6,175.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
Cameo Coals										
6,600.00	0.00	0.00	6,236.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
6,800.00	0.00	0.00	6,436.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
7,000.00	0.00	0.00	6,636.35	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
7,023.65	0.00	0.00	6,660.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
Rollins SS										
7,123.65	0.00	0.00	6,760.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	
TD at 7123.65 - 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	4,810.00	821.67	1,448.81	1,615,515.10	2,263,670.90	39.49433	-108.10954	

Casing Points									
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (in)	Hole Diameter (in)			
1,343.23	1,287.62	9 5/8"			9.625	13.500			

Formations									
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)				
2,032.50	1,890.00	Top of "G" Sand		0.00					
2,146.92	1,990.00	Base of "G" Sand		0.00					
3,947.40	3,600.00	Mesaverde		0.00					
5,173.65	4,810.00	Approx. Top Gas		0.00					
6,538.65	6,175.00	Cameo Coals		0.00					
7,023.65	6,660.00	Rollins SS		0.00					
7,123.65	6,760.00	TD		0.00					

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 333-28 - Slot 2A01
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 333-28	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)	
130.00	130.00	0.00	0.00	Start Build 2.50
1,293.23	1,243.92	142.53	251.31	Hold 29.08° Inc, 60.44° Az
3,134.94	2,853.46	584.12	1,029.96	Start Drop -1.50°/100
5,073.65	4,710.00	821.67	1,448.81	Vertical
5,173.65	4,810.00	821.67	1,448.81	Top Gas
7,123.65	6,760.00	821.67	1,448.81	TD at 7123.65