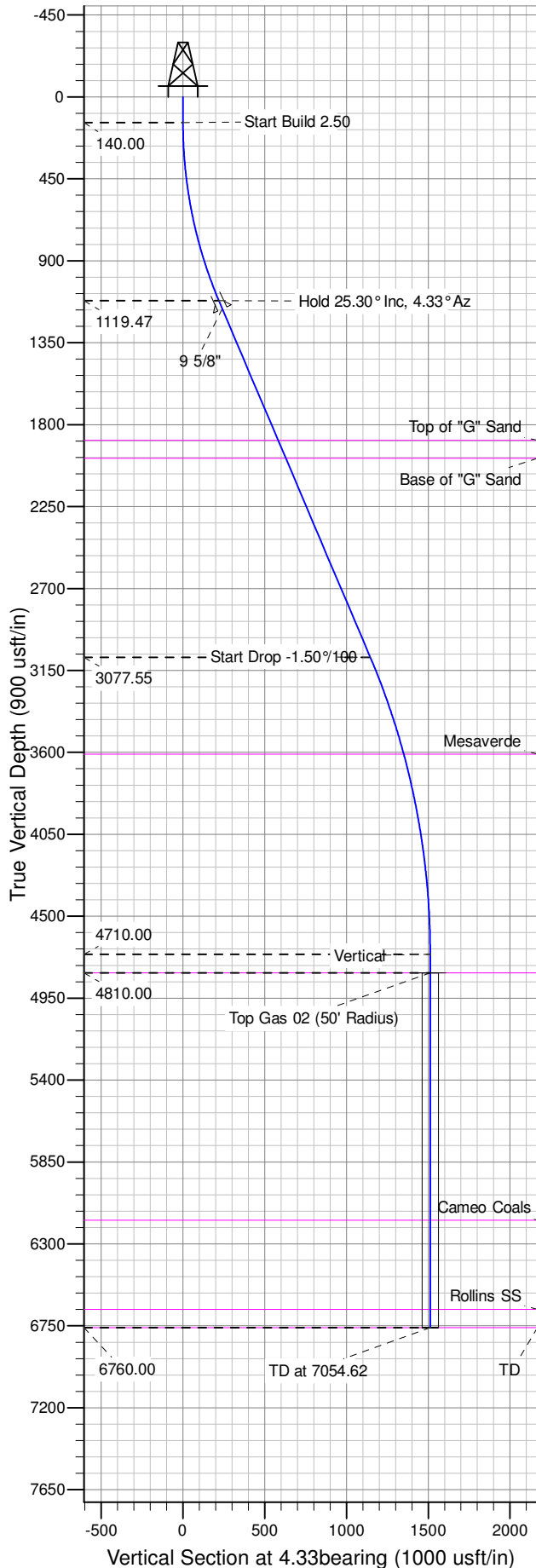
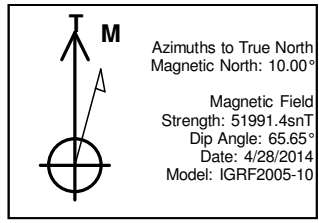
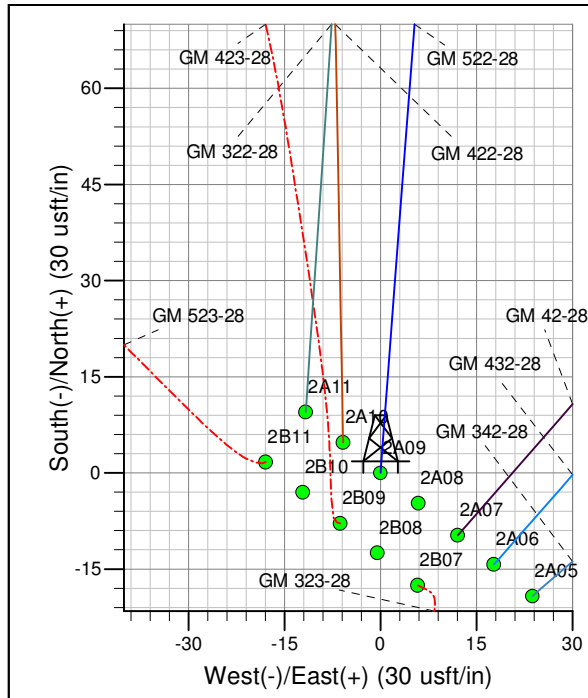
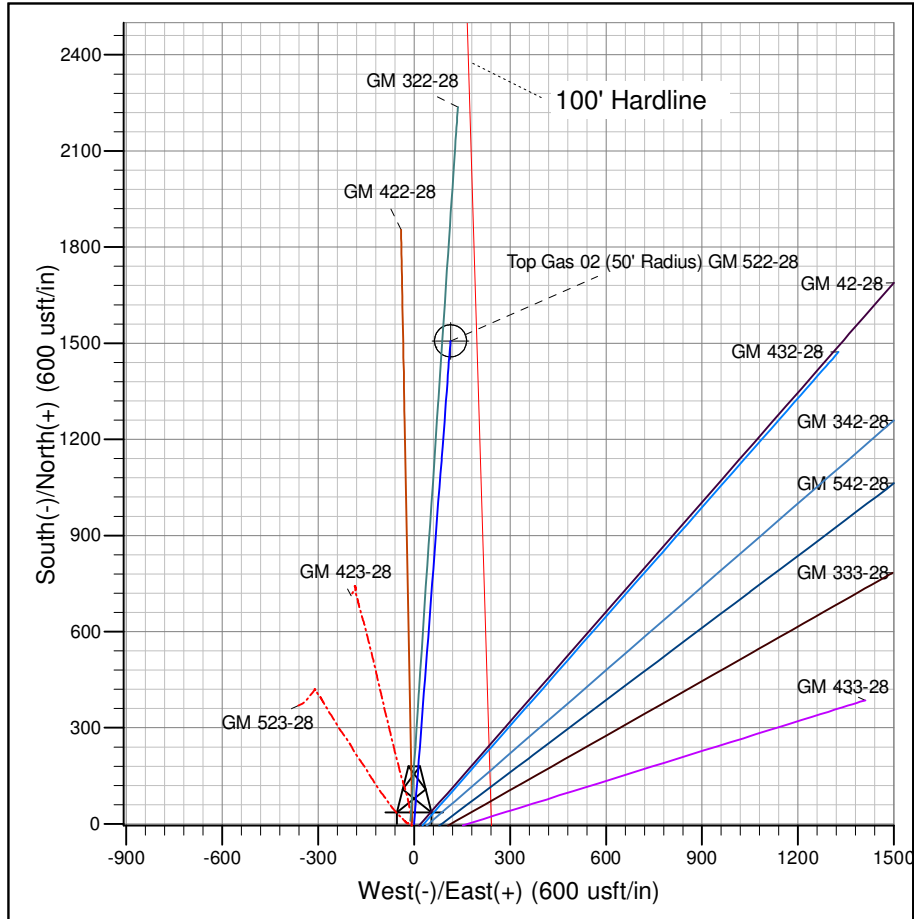




Well Name: GM 522-28
Surface Location: GM 323-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5476.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1614775.00 2262153.20 39.49218 -108.11484 2A09
KELLY BUSHING @ 5500.00usft (H&P 318 (24' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation	
140.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.50	
1119.47	1152.04	25.30	4.33	219.22	16.59	219.85	219.85	Hold 25.30° Inc, 4.33° Az	
3077.55	3317.88	25.30	4.33	1142.20	86.42	1145.47	1145.47	Start Drop -1.50°/100	
4710.00	5004.62	0.00	0.00	1507.57	114.07	1511.88	1511.88	Vertical	
4810.00	5104.62	0.00	0.00	1507.57	114.07	1511.88	1511.88	Top Gas	
6760.00	7054.62	0.00	0.00	1507.57	114.07	1511.88	1511.88	TD at 7054.62	



Azimuths to True North
Magnetic North: 10.00°
Magnetic Field
Strength: 51991.4snT
Dip Angle: 65.65°
Date: 4/28/2014
Model: IGRF2005-10
Project: GV 28-06S-096W
Site: GM 323-28 Pad
Well: GM 522-28
Design #1 28Apr14 mab

PICEANCE VLY NAD 83

GV 28-06S-096W

GM 323-28 Pad

GM 522-28 - Slot 2A09

Wellbore #1

Plan: Design #1 28Apr14 mab

Standard Planning Report - Geographic

25 June, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 522-28 - Slot 2A09
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 522-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 28Apr14 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 522-28 - Slot 2A09			
Well Position	+N/-S	0.00 usft	Northing:	1,614,775.00 usft
	+E/-W	0.00 usft	Easting:	2,262,153.20 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	4/28/2014	10.00	65.65	51,991

Design	Design #1 28Apr14 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	4.33

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	
140.00	0.00	0.00	140.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,152.04	25.30	4.33	1,119.47	219.22	16.59	2.50	2.50	0.00	4.33	
3,317.88	25.30	4.33	3,077.55	1,142.20	86.42	0.00	0.00	0.00	0.00	
5,004.62	0.00	0.00	4,710.00	1,507.57	114.07	1.50	-1.50	0.00	180.00	
5,104.62	0.00	0.00	4,810.00	1,507.57	114.07	0.00	0.00	0.00	0.00	Top Gas 02 (50' Radii
7,054.62	0.00	0.00	6,760.00	1,507.57	114.07	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 522-28 - Slot 2A09
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 522-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 28Apr14 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	1,614,775.00	2,262,153.20	39.49218	-108.11484
140.00	0.00	0.00	140.00	0.00	0.00	1,614,775.00	2,262,153.20	39.49218	-108.11484
Start Build 2.50									
200.00	1.50	4.33	199.99	0.78	0.06	1,614,775.78	2,262,153.28	39.49218	-108.11484
400.00	6.50	4.33	399.44	14.69	1.11	1,614,789.65	2,262,154.73	39.49222	-108.11484
600.00	11.50	4.33	596.92	45.88	3.47	1,614,820.75	2,262,157.99	39.49231	-108.11483
800.00	16.50	4.33	790.92	94.11	7.12	1,614,868.86	2,262,163.03	39.49244	-108.11482
1,000.00	21.50	4.33	979.96	159.02	12.03	1,614,933.59	2,262,169.80	39.49262	-108.11480
1,152.04	25.30	4.33	1,119.47	219.22	16.59	1,614,993.64	2,262,176.09	39.49278	-108.11478
Hold 25.30° Inc, 4.33° Az									
1,200.00	25.30	4.33	1,162.83	239.66	18.13	1,615,014.02	2,262,178.22	39.49284	-108.11478
1,202.04	25.30	4.33	1,164.67	240.52	18.20	1,615,014.89	2,262,178.31	39.49284	-108.11478
9 5/8"									
1,400.00	25.30	4.33	1,343.64	324.89	24.58	1,615,099.03	2,262,187.12	39.49307	-108.11475
1,600.00	25.30	4.33	1,524.46	410.12	31.03	1,615,184.03	2,262,196.02	39.49331	-108.11473
1,800.00	25.30	4.33	1,705.27	495.35	37.48	1,615,269.04	2,262,204.92	39.49354	-108.11471
1,998.80	25.30	4.33	1,885.00	580.07	43.89	1,615,353.54	2,262,213.76	39.49377	-108.11469
Top of "G" Sand									
2,000.00	25.30	4.33	1,886.09	580.58	43.93	1,615,354.05	2,262,213.82	39.49378	-108.11469
2,109.41	25.30	4.33	1,985.00	627.21	47.46	1,615,400.55	2,262,218.68	39.49390	-108.11467
Base of "G" Sand									
2,200.00	25.30	4.33	2,066.90	665.81	50.38	1,615,439.06	2,262,222.72	39.49401	-108.11466
2,400.00	25.30	4.33	2,247.72	751.04	56.83	1,615,524.06	2,262,231.61	39.49424	-108.11464
2,600.00	25.30	4.33	2,428.53	836.28	63.28	1,615,609.07	2,262,240.51	39.49448	-108.11462
2,800.00	25.30	4.33	2,609.35	921.51	69.72	1,615,694.08	2,262,249.41	39.49471	-108.11459
3,000.00	25.30	4.33	2,790.16	1,006.74	76.17	1,615,779.08	2,262,258.31	39.49494	-108.11457
3,200.00	25.30	4.33	2,970.98	1,091.97	82.62	1,615,864.09	2,262,267.21	39.49518	-108.11455
3,317.88	25.30	4.33	3,077.55	1,142.20	86.42	1,615,914.19	2,262,272.45	39.49532	-108.11453
Start Drop -1.50°/100									
3,400.00	24.07	4.33	3,152.16	1,176.40	89.01	1,615,948.30	2,262,276.02	39.49541	-108.11453
3,600.00	21.07	4.33	3,336.83	1,252.93	94.80	1,616,024.63	2,262,284.02	39.49562	-108.11451
3,800.00	18.07	4.33	3,525.25	1,319.73	99.85	1,616,091.25	2,262,290.99	39.49580	-108.11449
3,888.82	16.74	4.33	3,610.00	1,346.21	101.86	1,616,117.67	2,262,293.75	39.49588	-108.11448
Mesaverde									
4,000.00	15.07	4.33	3,716.92	1,376.59	104.16	1,616,147.96	2,262,296.93	39.49596	-108.11447
4,200.00	12.07	4.33	3,911.32	1,423.38	107.70	1,616,194.63	2,262,301.81	39.49609	-108.11446
4,400.00	9.07	4.33	4,107.90	1,459.95	110.46	1,616,231.11	2,262,305.63	39.49619	-108.11445
4,600.00	6.07	4.33	4,306.14	1,486.22	112.45	1,616,257.30	2,262,308.37	39.49626	-108.11444
4,800.00	3.07	4.33	4,505.48	1,502.10	113.65	1,616,273.15	2,262,310.03	39.49630	-108.11444
5,000.00	0.07	4.33	4,705.38	1,507.57	114.07	1,616,278.59	2,262,310.60	39.49632	-108.11444
5,004.62	0.00	0.00	4,710.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
Vertical									
5,104.62	0.00	0.00	4,810.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
Top Gas - Approx. Top Gas									
5,200.00	0.00	0.00	4,905.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
5,400.00	0.00	0.00	5,105.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
5,600.00	0.00	0.00	5,305.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
5,800.00	0.00	0.00	5,505.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
6,000.00	0.00	0.00	5,705.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
6,200.00	0.00	0.00	5,905.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
6,400.00	0.00	0.00	6,105.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 522-28 - Slot 2A09
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 522-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 28Apr14 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
6,464.62	0.00	0.00	6,170.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
Cameo Coals									
6,600.00	0.00	0.00	6,305.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
6,800.00	0.00	0.00	6,505.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
6,954.62	0.00	0.00	6,660.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
Rollins SS									
7,000.00	0.00	0.00	6,705.38	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
7,054.62	0.00	0.00	6,760.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444
TD at 7054.62 - 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 02 (50' Radius) - plan hits target center - Circle (radius 50.00)	0.00	0.00	4,810.00	1,507.57	114.07	1,616,278.60	2,262,310.60	39.49632	-108.11444

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,202.04	1,164.67	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
1,998.80	1,885.00	Top of "G" Sand				
2,109.41	1,985.00	Base of "G" Sand				
3,888.82	3,610.00	Mesaverde				
5,104.62	4,810.00	Approx. Top Gas				
6,464.62	6,170.00	Cameo Coals				
6,954.62	6,660.00	Rollins SS				
7,054.62	6,760.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 522-28 - Slot 2A09
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 522-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 28Apr14 mab		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
140.00	140.00	0.00	0.00	Start Build 2.50
1,152.04	1,119.47	219.22	16.59	Hold 25.30° Inc, 4.33° Az
3,317.88	3,077.55	1,142.20	86.42	Start Drop -1.50°/100
5,004.62	4,710.00	1,507.57	114.07	Vertical
5,104.62	4,810.00	1,507.57	114.07	Top Gas
7,054.62	6,760.00	1,507.57	114.07	TD at 7054.62