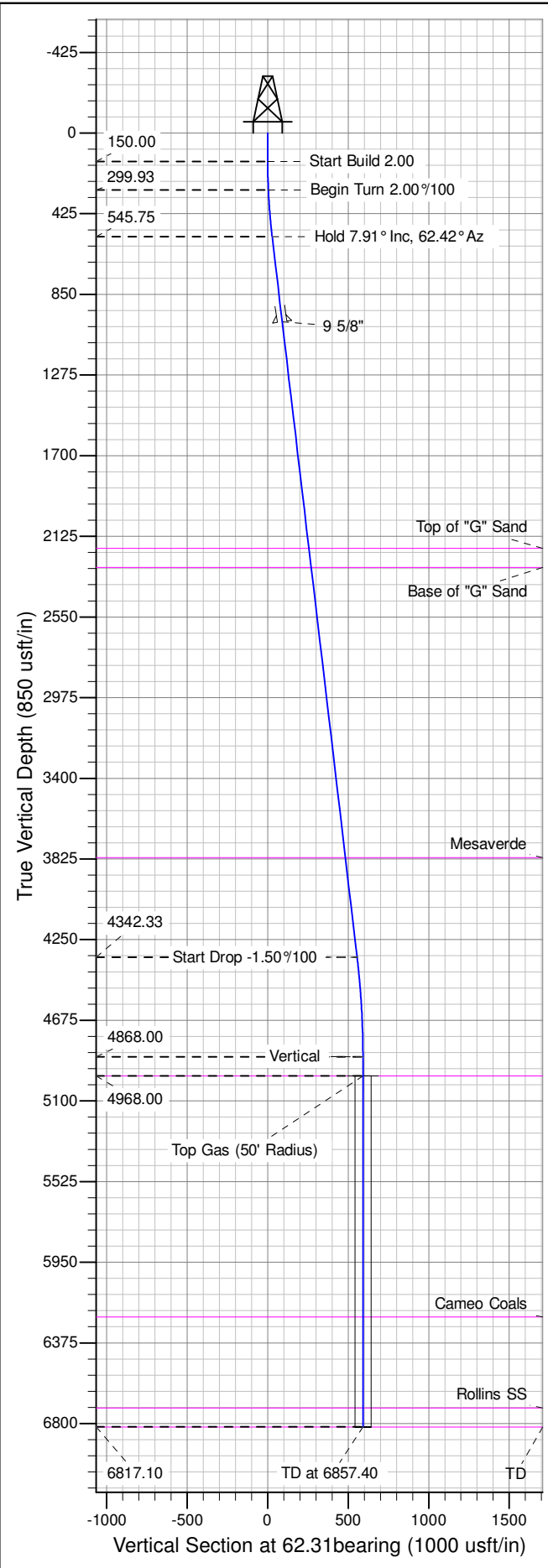
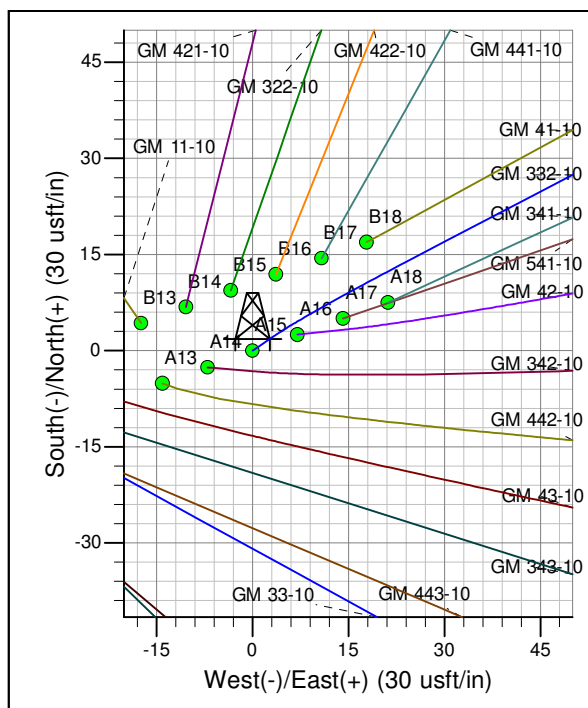
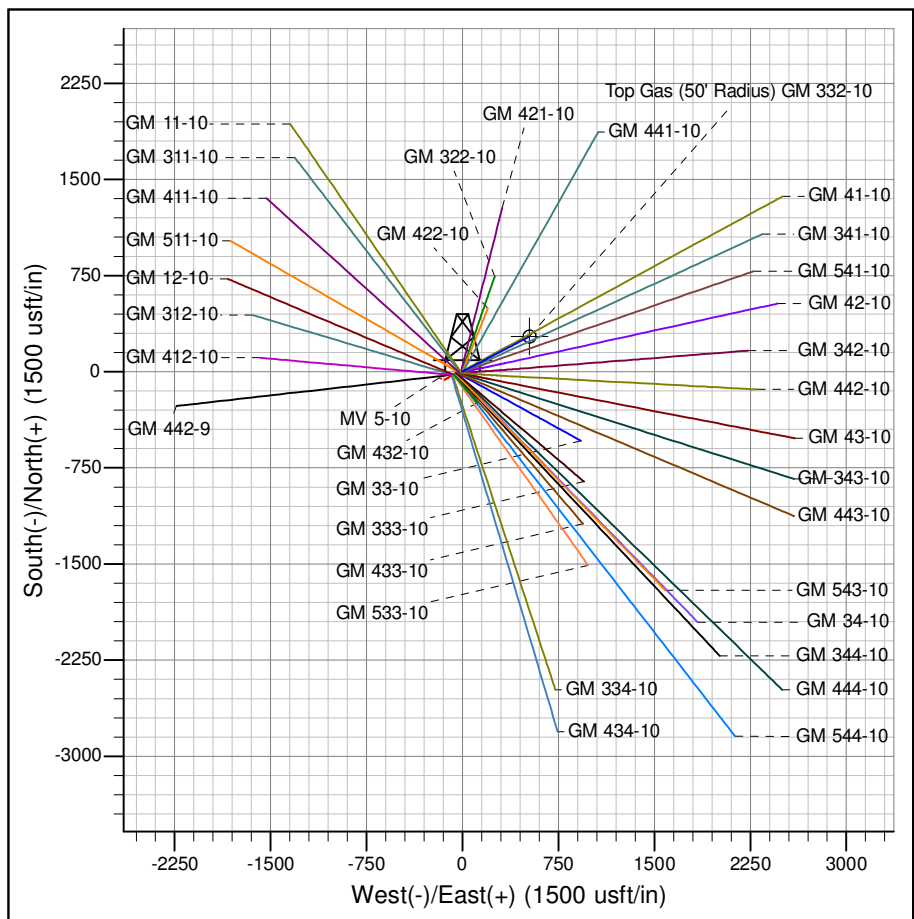




Well Name: GM 332-10
Surface Location: MV 5-10 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6148.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1600372.70000 2266967.20000 39.45303 -108.09633 A15
KELLY BUSHING @ 6174.00usft (Original Well Elev)



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	2.00
299.93	300.00	3.00	56.00	2.20	3.25	3.90	3.93	Begin Turn 2.00°/100	2.00°/100
545.75	547.01	7.91	62.42	13.69	23.69	27.34	27.38	Hold 7.91° Inc, 62.42° Az	7.91° Inc, 62.42° Az
4342.33	4380.06	7.91	62.42	257.88	491.27	554.84	554.89	Start Drop -1.50°/100	-1.50°/100
4868.00	4907.40	0.00	0.00	274.71	523.48	591.18	591.23	Vertical	Vertical
4968.00	5007.40	0.00	0.00	274.71	523.48	591.18	591.23	Top Gas	Top Gas
6817.10	6856.50	0.00	0.00	274.71	523.48	591.18	591.23	TD at 6857.40	TD at 6857.40



Azimuths to True North
Magnetic North: 9.99°

Magnetic Field
Strength: 51894.9snT
Dip Angle: 65.60°
Date: 8/8/2014
Model: IGRF2010

Project: GV 10-07S-096W
Site: MV 5-10 Pad
Well: GM 332-10
Design #1 08Aug14 mab

PICEANCE VLY NAD 83

GV 10-07S-096W

MV 5-10 Pad

GM 332-10 - Slot A15

Wellbore #1

Plan: Design #1 08Aug14 mab

Standard Planning Report - Geographic

13 October, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 332-10 - Slot A15
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 332-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Aug14 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:	1,600,354.00000 usft	Latitude: 39.45298
From: Map		Easting:	2,266,910.20000 usft	Longitude: -108.09653
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: -1.64 °

Well	GM 332-10 - Slot A15			
Well Position	+N/-S	0.00 usft	Northing:	1,600,372.70000 usft
	+E/-W	0.00 usft	Easting:	2,266,967.20000 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	0.00 usft
			Ground Level:	6,148.00 usft

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

Design	Design #1 08Aug14 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	62.31

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	
300.00	3.00	56.00	299.93	2.20	3.25	2.00	2.00	0.00	56.00	
547.01	7.91	62.42	545.75	13.69	23.69	2.00	1.99	2.60	10.30	
4,380.06	7.91	62.42	4,342.33	257.88	491.27	0.00	0.00	0.00	0.00	
4,907.40	0.00	0.00	4,868.00	274.71	523.48	1.50	-1.50	0.00	180.00	
6,857.41	0.00	0.00	6,818.00	274.71	523.48	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 332-10 - Slot A15
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 332-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Aug14 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	1,600,372.70000	2,266,967.20000	39.45304	-108.09633	
150.00	0.00	0.00	150.00	0.00	0.00	1,600,372.70000	2,266,967.20000	39.45304	-108.09633	
Start Build 2.00										
200.00	1.00	56.00	200.00	0.24	0.36	1,600,372.93354	2,266,967.56853	39.45304	-108.09633	
300.00	3.00	56.00	299.93	2.20	3.25	1,600,374.80144	2,266,970.51613	39.45304	-108.09632	
Begin Turn 2.00°/100										
400.00	4.98	60.12	399.68	5.82	9.19	1,600,378.25640	2,266,976.55103	39.45305	-108.09630	
547.01	7.91	62.42	545.75	13.69	23.69	1,600,385.70230	2,266,991.27263	39.45307	-108.09625	
Hold 7.91° Inc, 62.42° Az										
600.00	7.91	62.42	598.24	17.06	30.16	1,600,388.89171	2,266,997.82965	39.45308	-108.09623	
800.00	7.91	62.42	796.33	29.80	54.55	1,600,400.93040	2,267,022.57966	39.45312	-108.09614	
1,000.00	7.91	62.42	994.43	42.54	78.95	1,600,412.96910	2,267,047.32967	39.45315	-108.09605	
9 5/8"										
1,200.00	7.91	62.42	1,192.53	55.29	103.35	1,600,425.00780	2,267,072.07968	39.45319	-108.09597	
1,400.00	7.91	62.42	1,390.62	68.03	127.74	1,600,437.04650	2,267,096.82970	39.45322	-108.09588	
1,600.00	7.91	62.42	1,588.72	80.77	152.14	1,600,449.08519	2,267,121.57971	39.45326	-108.09579	
1,800.00	7.91	62.42	1,786.82	93.51	176.54	1,600,461.12389	2,267,146.32972	39.45329	-108.09571	
2,000.00	7.91	62.42	1,984.91	106.25	200.93	1,600,473.16259	2,267,171.07974	39.45333	-108.09562	
2,200.00	7.91	62.42	2,183.01	118.99	225.33	1,600,485.20129	2,267,195.82975	39.45336	-108.09553	
2,205.04	7.91	62.42	2,188.00	119.31	225.95	1,600,485.50444	2,267,196.45300	39.45336	-108.09553	
Top of "G" Sand										
2,306.00	7.91	62.42	2,288.00	125.75	238.26	1,600,491.58162	2,267,208.94688	39.45338	-108.09549	
Base of "G" Sand										
2,400.00	7.91	62.42	2,381.11	131.74	249.73	1,600,497.23999	2,267,220.57976	39.45340	-108.09545	
2,600.00	7.91	62.42	2,579.21	144.48	274.13	1,600,509.27868	2,267,245.32976	39.45343	-108.09536	
2,800.00	7.91	62.42	2,777.30	157.22	298.52	1,600,521.31738	2,267,270.07978	39.45347	-108.09527	
3,000.00	7.91	62.42	2,975.40	169.96	322.92	1,600,533.35608	2,267,294.82979	39.45350	-108.09519	
3,200.00	7.91	62.42	3,173.50	182.70	347.32	1,600,545.39478	2,267,319.57980	39.45354	-108.09510	
3,400.00	7.91	62.42	3,371.59	195.44	371.71	1,600,557.43347	2,267,344.32981	39.45357	-108.09502	
3,600.00	7.91	62.42	3,569.69	208.19	396.11	1,600,569.47217	2,267,369.07983	39.45361	-108.09493	
3,800.00	7.91	62.42	3,767.79	220.93	420.51	1,600,581.51087	2,267,393.82984	39.45364	-108.09484	
3,850.69	7.91	62.42	3,818.00	224.16	426.69	1,600,584.56235	2,267,400.10328	39.45365	-108.09482	
Mesaverde										
4,000.00	7.91	62.42	3,965.89	233.67	444.90	1,600,593.54957	2,267,418.57985	39.45368	-108.09476	
4,200.00	7.91	62.42	4,163.98	246.41	469.30	1,600,605.58827	2,267,443.32986	39.45371	-108.09467	
4,380.06	7.91	62.42	4,342.33	257.88	491.27	1,600,616.42698	2,267,465.61287	39.45374	-108.09459	
Start Drop -1.50°/100										
4,400.00	7.61	62.42	4,362.09	259.13	493.65	1,600,617.60441	2,267,468.03353	39.45375	-108.09458	
4,600.00	4.61	62.42	4,560.93	268.98	512.52	1,600,626.91596	2,267,487.17688	39.45377	-108.09452	
4,800.00	1.61	62.42	4,760.61	274.01	522.14	1,600,631.66302	2,267,496.93623	39.45379	-108.09448	
4,907.40	0.00	0.00	4,868.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
Vertical										
5,000.00	0.00	0.00	4,960.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
5,007.40	0.00	0.00	4,968.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
Top Gas - Approx. Top Gas										
5,200.00	0.00	0.00	5,160.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
5,400.00	0.00	0.00	5,360.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
5,600.00	0.00	0.00	5,560.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
5,800.00	0.00	0.00	5,760.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
6,000.00	0.00	0.00	5,960.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	
6,200.00	0.00	0.00	6,160.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 332-10 - Slot A15
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 332-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Aug14 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
6,277.41	0.00	0.00	6,238.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
Cameo Coals									
6,400.00	0.00	0.00	6,360.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
6,600.00	0.00	0.00	6,560.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
6,757.41	0.00	0.00	6,718.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
Rollins SS									
6,800.00	0.00	0.00	6,760.60	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
6,857.40	0.00	0.00	6,818.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448
TD at 6857.40									

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	4,968.00	274.71	523.48	1,600,632.32346	2,267,498.29399	39.45379	-108.09448

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,000.00	994.43	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,205.04	2,188.00	Top of "G" Sand				
2,306.00	2,288.00	Base of "G" Sand				
3,850.69	3,818.00	Mesaverde				
5,007.40	4,968.00	Approx. Top Gas				
6,277.41	6,238.00	Cameo Coals				
6,757.41	6,718.00	Rollins SS				
6,857.41	6,818.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 332-10 - Slot A15
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 332-10	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 08Aug14 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
300.00	299.93	2.20	3.25	Begin Turn 2.00°/100
547.01	545.75	13.69	23.69	Hold 7.91° Inc, 62.42° Az
4,380.06	4,342.33	257.88	491.27	Start Drop -1.50°/100
4,907.40	4,868.00	274.71	523.48	Vertical
5,007.40	4,968.00	274.71	523.48	Top Gas
6,857.40	6,818.00	274.71	523.48	TD at 6857.40