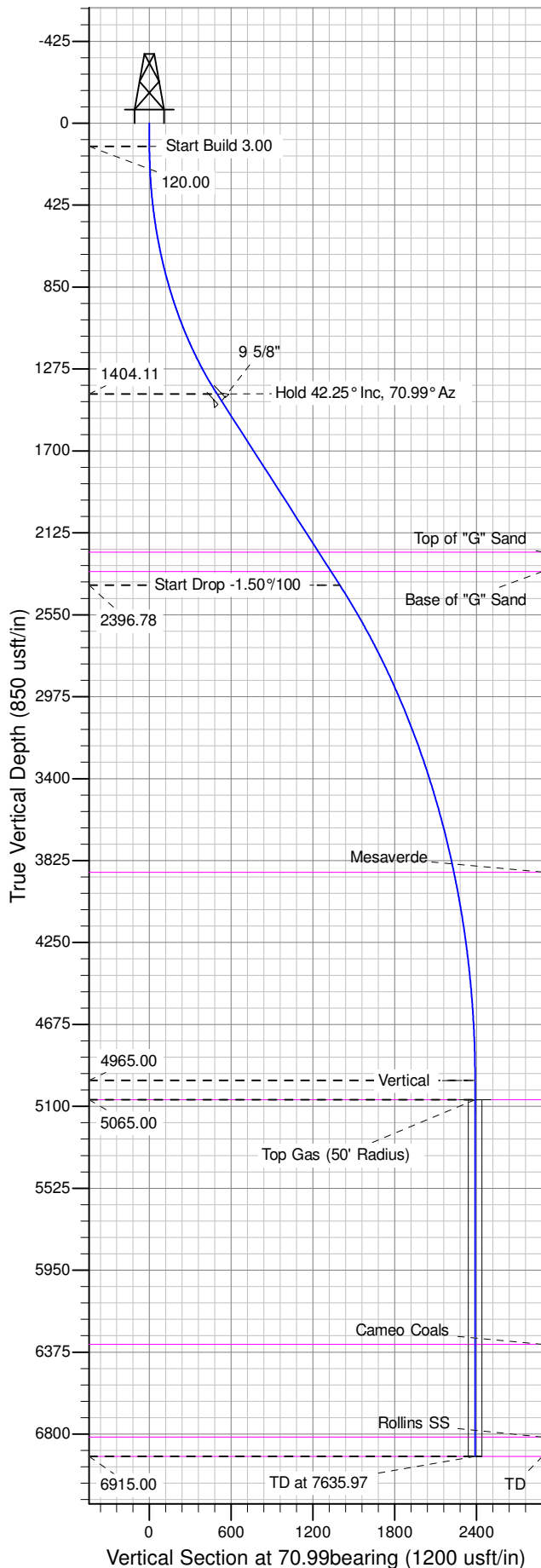
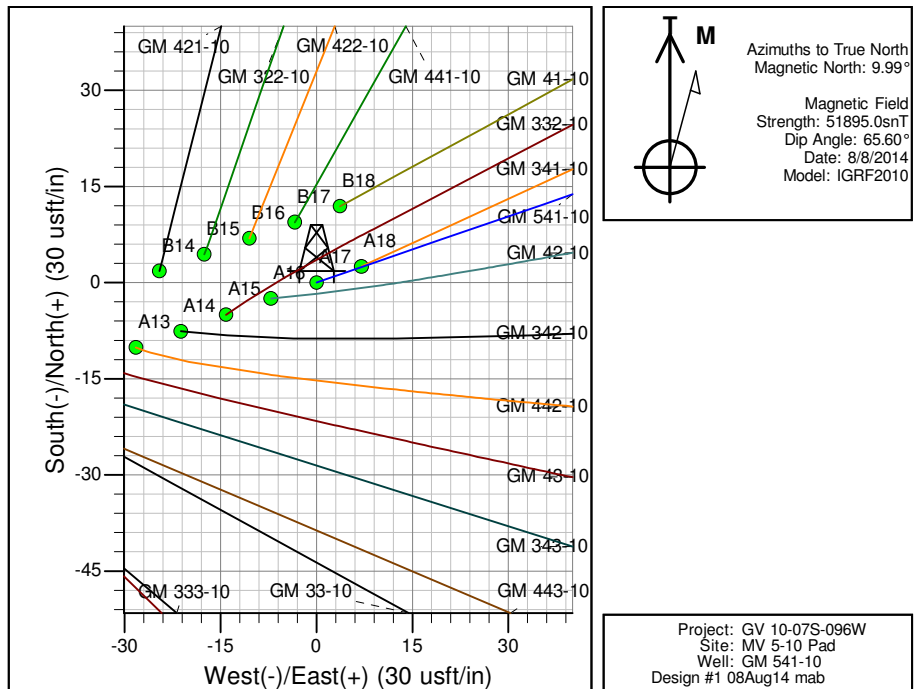
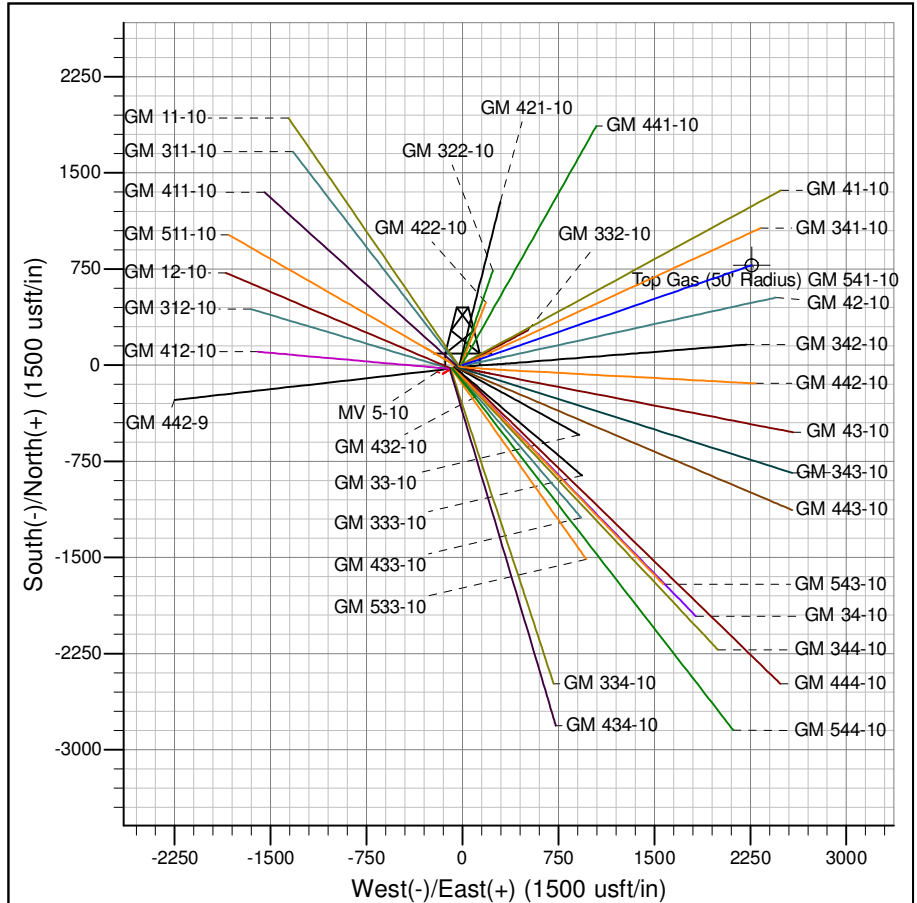




Well Name: GM 541-10
Surface Location: MV 5-10 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6148.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1600377.30 2266981.48 39.45305 -108.09628 A17
KELLY BUSHING @ 6174.00usft (Nabors (26' RKB) mab)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00	
1404.11	1528.31	42.25	70.99	161.61	469.07	496.13	496.13	Hold 42.25° Inc, 70.99° Az	
2396.78	2869.35	42.25	70.99	455.32	1321.55	1397.79	1397.79	Start Drop -1.50°/100	
4965.00	5685.97	0.00	0.00	778.54	2259.70	2390.06	2390.06	Vertical	
5065.00	5785.97	0.00	0.00	778.54	2259.70	2390.06	2390.06	Top Gas	
6915.00	7635.97	0.00	0.00	778.54	2259.70	2390.06	2390.06	TD at 7635.97	



PICEANCE VLY NAD 83

GV 10-07S-096W

MV 5-10 Pad

GM 541-10 - Slot A17

Wellbore #1

Plan: Design #1 08Aug14 mab

Standard Planning Report - Geographic

14 October, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 541-10 - Slot A17
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 541-10	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 541-10 - Slot A17			
Well Position	+N/-S	0.00 usft	Northing:	1,600,377.30266 usft
	+E/-W	0.00 usft	Easting:	2,266,981.48448 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	70.99

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	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,528.31	42.25	70.99	1,404.11	161.61	469.07	3.00	3.00	0.00	70.99	
2,869.35	42.25	70.99	2,396.78	455.32	1,321.55	0.00	0.00	0.00	0.00	
5,685.97	0.00	0.00	4,965.00	778.54	2,259.70	1.50	-1.50	0.00	180.00	
5,785.97	0.00	0.00	5,065.00	778.54	2,259.70	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
7,635.97	0.00	0.00	6,915.00	778.54	2,259.70	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 541-10 - Slot A17
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 541-10	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	1,600,377.30266	2,266,981.48448	39.45305	-108.09628	
120.00	0.00	0.00	120.00	0.00	0.00	1,600,377.30266	2,266,981.48448	39.45305	-108.09628	
Start Build 3.00										
200.00	2.40	70.99	199.98	0.55	1.58	1,600,377.80286	2,266,983.08325	39.45305	-108.09628	
400.00	8.40	70.99	399.00	6.67	19.37	1,600,383.42001	2,267,001.03727	39.45307	-108.09621	
600.00	14.40	70.99	594.96	19.54	56.73	1,600,395.21782	2,267,038.74642	39.45310	-108.09608	
800.00	20.40	70.99	785.72	39.02	113.25	1,600,413.06702	2,267,095.79755	39.45316	-108.09588	
1,000.00	26.40	70.99	969.19	64.88	188.31	1,600,436.77206	2,267,171.56559	39.45323	-108.09562	
1,200.00	32.40	70.99	1,143.35	96.85	281.10	1,600,466.07321	2,267,265.22040	39.45332	-108.09529	
1,400.00	38.40	70.99	1,306.30	134.57	390.58	1,600,500.64945	2,267,375.73590	39.45342	-108.09490	
1,528.31	42.25	70.99	1,404.11	161.61	469.07	1,600,525.43674	2,267,454.96312	39.45349	-108.09462	
Hold 42.25° Inc, 70.99° Az										
1,578.31	42.25	70.99	1,441.12	172.56	500.86	1,600,535.47372	2,267,487.04418	39.45352	-108.09451	
9 5/8"										
1,600.00	42.25	70.99	1,457.18	177.31	514.64	1,600,539.82801	2,267,500.96174	39.45354	-108.09446	
1,800.00	42.25	70.99	1,605.22	221.11	641.78	1,600,579.97824	2,267,629.29326	39.45366	-108.09401	
2,000.00	42.25	70.99	1,753.27	264.92	768.92	1,600,620.12845	2,267,757.62479	39.45378	-108.09356	
2,200.00	42.25	70.99	1,901.31	308.72	896.06	1,600,660.27867	2,267,885.95632	39.45390	-108.09311	
2,400.00	42.25	70.99	2,049.36	352.52	1,023.19	1,600,700.42889	2,268,014.28785	39.45402	-108.09266	
2,600.00	42.25	70.99	2,197.40	396.33	1,150.33	1,600,740.57911	2,268,142.61937	39.45414	-108.09221	
2,637.28	42.25	70.99	2,225.00	404.49	1,174.03	1,600,748.06408	2,268,166.54346	39.45416	-108.09212	
Top of "G" Sand										
2,772.38	42.25	70.99	2,325.00	434.08	1,259.91	1,600,775.18435	2,268,253.22756	39.45424	-108.09182	
Base of "G" Sand										
2,800.00	42.25	70.99	2,345.45	440.13	1,277.47	1,600,780.72934	2,268,270.95090	39.45426	-108.09176	
2,869.35	42.25	70.99	2,396.78	455.32	1,321.55	1,600,794.65083	2,268,315.44796	39.45430	-108.09160	
Start Drop -1.50°/100										
3,000.00	40.29	70.99	2,494.97	483.39	1,403.03	1,600,820.38064	2,268,397.68774	39.45438	-108.09131	
3,200.00	37.29	70.99	2,650.85	524.19	1,521.47	1,600,857.78585	2,268,517.24542	39.45449	-108.09089	
3,400.00	34.29	70.99	2,813.06	562.29	1,632.04	1,600,892.70408	2,268,628.85402	39.45459	-108.09050	
3,600.00	31.29	70.99	2,981.18	597.57	1,734.44	1,600,925.03962	2,268,732.20761	39.45469	-108.09014	
3,800.00	28.29	70.99	3,154.73	629.93	1,828.37	1,600,954.70385	2,268,827.02291	39.45478	-108.08981	
4,000.00	25.29	70.99	3,333.24	659.29	1,913.59	1,600,981.61545	2,268,913.04005	39.45486	-108.08951	
4,200.00	22.29	70.99	3,516.23	685.57	1,989.85	1,601,005.70067	2,268,990.02326	39.45493	-108.08924	
4,400.00	19.29	70.99	3,703.18	708.69	2,056.96	1,601,026.89347	2,269,057.76152	39.45499	-108.08900	
4,591.04	16.42	70.99	3,885.00	727.77	2,112.34	1,601,044.38232	2,269,113.66085	39.45505	-108.08880	
Mesaverde										
4,600.00	16.29	70.99	3,893.60	728.59	2,114.73	1,601,045.13580	2,269,116.06917	39.45505	-108.08879	
4,800.00	13.29	70.99	4,086.95	745.22	2,162.99	1,601,060.37763	2,269,164.78640	39.45509	-108.08862	
5,000.00	10.29	70.99	4,282.71	758.53	2,201.62	1,601,072.57719	2,269,203.77968	39.45513	-108.08849	
5,200.00	7.29	70.99	4,480.34	768.48	2,230.51	1,601,081.70105	2,269,232.94211	39.45516	-108.08838	
5,400.00	4.29	70.99	4,679.29	775.05	2,249.58	1,601,087.72419	2,269,252.19378	39.45518	-108.08832	
5,600.00	1.29	70.99	4,879.03	778.22	2,258.79	1,601,090.63011	2,269,261.48192	39.45519	-108.08828	
5,685.97	0.00	0.00	4,965.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
Vertical										
5,785.97	0.00	0.00	5,065.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
Top Gas - Approx. Top Gas										
5,800.00	0.00	0.00	5,079.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
6,000.00	0.00	0.00	5,279.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
6,200.00	0.00	0.00	5,479.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
6,400.00	0.00	0.00	5,679.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	
6,600.00	0.00	0.00	5,879.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 541-10 - Slot A17
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 541-10	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
6,800.00	0.00	0.00	6,079.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
7,000.00	0.00	0.00	6,279.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
7,055.97	0.00	0.00	6,335.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
Cameo Coals									
7,200.00	0.00	0.00	6,479.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
7,400.00	0.00	0.00	6,679.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
7,535.97	0.00	0.00	6,815.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
Rollins SS									
7,600.00	0.00	0.00	6,879.03	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
7,635.97	0.00	0.00	6,915.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828
TD at 7635.97 - 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	5,065.00	778.54	2,259.70	1,601,090.91898	2,269,262.40523	39.45519	-108.08828

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,578.31	1,441.12	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
2,637.28	2,225.00	Top of "G" Sand				
2,772.38	2,325.00	Base of "G" Sand				
4,591.04	3,885.00	Mesaverde				
5,785.97	5,065.00	Approx. Top Gas				
7,055.97	6,335.00	Cameo Coals				
7,535.97	6,815.00	Rollins SS				
7,635.97	6,915.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 541-10 - Slot A17
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Project:	GV 10-07S-096W	MD Reference:	KELLY BUSHING @ 6174.00usft (Nabors _ (26' RKB) mab)
Site:	MV 5-10 Pad	North Reference:	True
Well:	GM 541-10	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)	
120.00	120.00	0.00	0.00	Start Build 3.00
1,528.31	1,404.11	161.61	469.07	Hold 42.25° Inc, 70.99° Az
2,869.35	2,396.78	455.32	1,321.55	Start Drop -1.50°/100
5,685.97	4,965.00	778.54	2,259.70	Vertical
5,785.97	5,065.00	778.54	2,259.70	Top Gas
7,635.97	6,915.00	778.54	2,259.70	TD at 7635.97