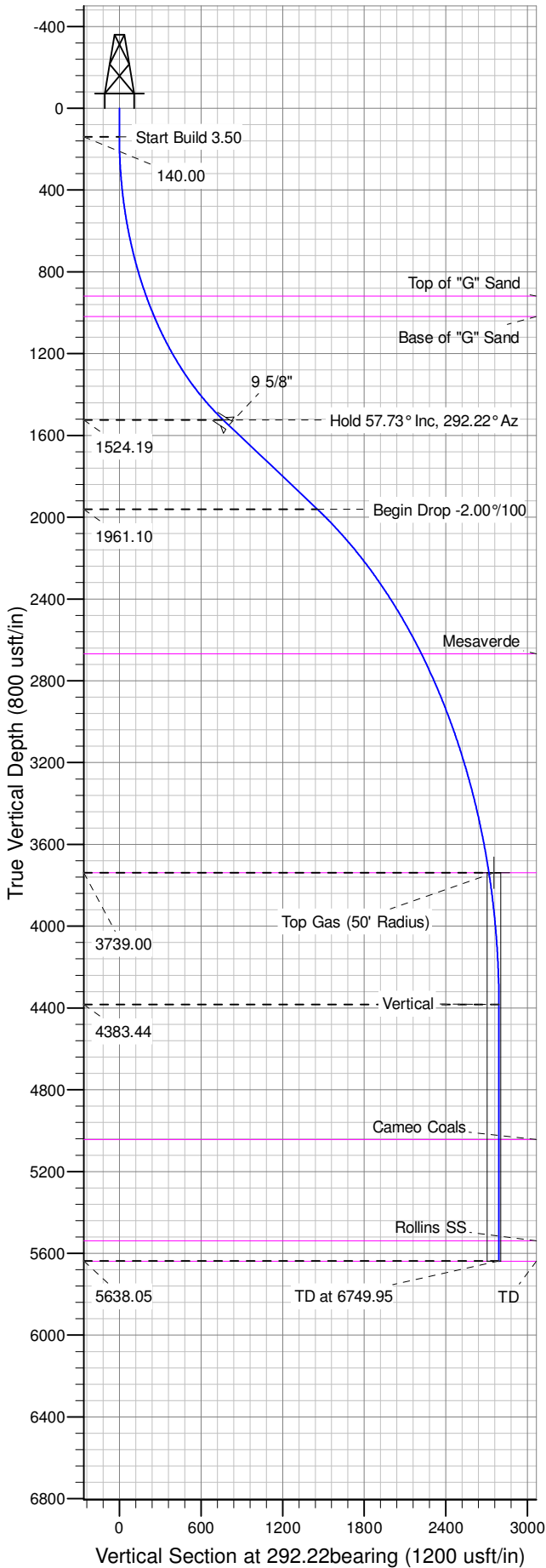




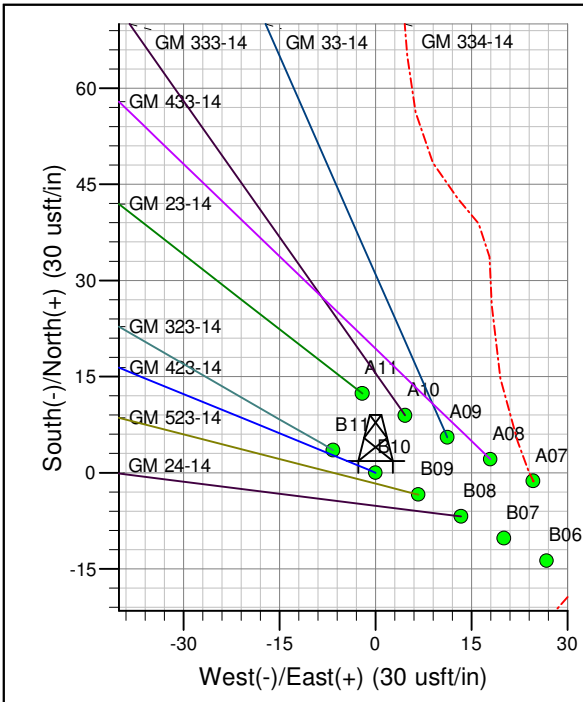
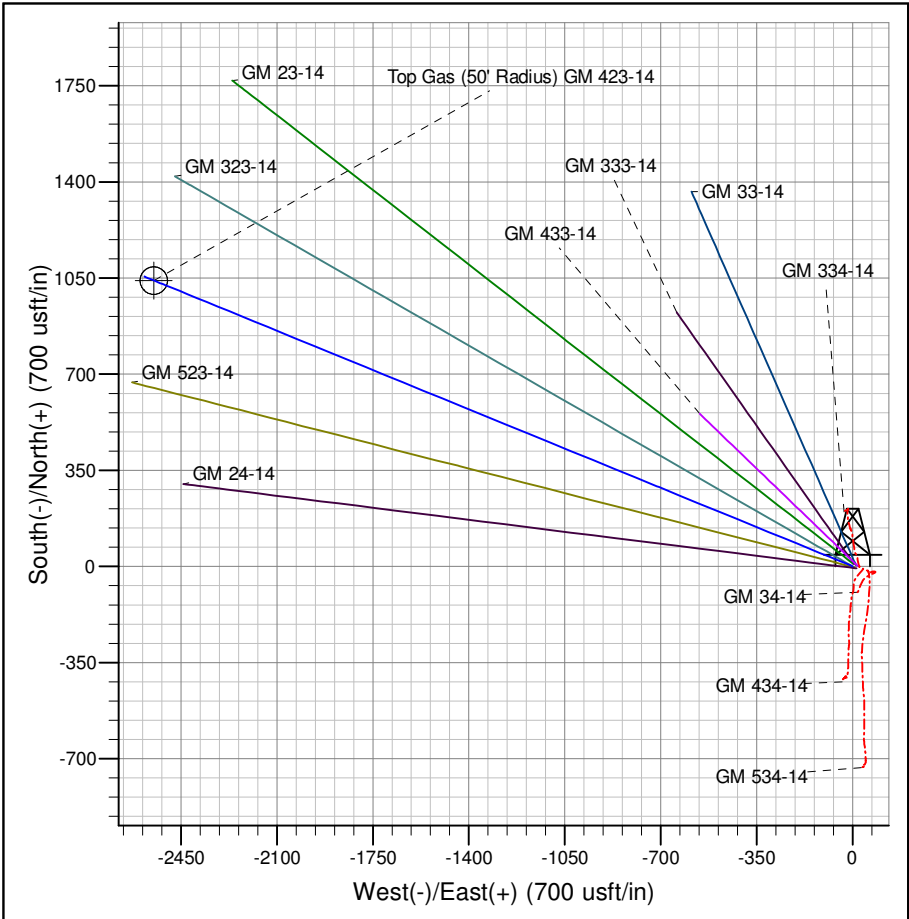
Well Name: GM 423-14
 Surface Location: GM 34-14 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5173.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1592878.10000	2272788.10000	39.43292	-108.07497	B10

KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)



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	0.00	Start Build 3.50
1524.19	1789.47	57.73	292.22	288.50	-706.39	763.03	763.03	763.03	Hold 57.73° Inc, 292.22° Az
1961.10	2607.82	57.73	292.22	550.12	-1346.99	1455.00	1455.00	1455.00	Begin Drop -2.00°/100
3739.00	4844.39	13.00	292.22	1027.23	-2515.20	2716.88	2716.88	2716.88	Top Gas
4383.44	5494.39	0.00	0.00	1054.99	-2583.18	2790.31	2790.31	2790.31	Vertical
5638.05	6749.00	0.00	0.00	1054.99	-2583.18	2790.31	2790.31	2790.31	TD at 6749.95



Azimuths to True North
 Magnetic North: 10.11°
 Magnetic Field
 Strength: 52065.0snT
 Dip Angle: 65.64°
 Date: 4/23/2013
 Model: IGRF2005-10

Project: GV 14-07S-096W
 Site: GM 34-14 Pad
 Well: GM 423-14
 Design #2 02May14 mab

PICEANCE VLY NAD 83

GV 14-07S-096W

GM 34-14 Pad

GM 423-14 - Slot B10

Wellbore #1

Plan: Design #2 02May14 mab

Standard Planning Report - Geographic

30 May, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 423-14 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 423-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 mab		

Project	GV 14-07S-096W, Garfield County, CO, 14-07S-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	GM 34-14 Pad				
Site Position:		Northing:	1,592,854.30000 usft	Latitude:	39.43286
From:	Map	Easting:	2,272,852.10000 usft	Longitude:	-108.07474
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.62 °

Well	GM 423-14 - Slot B10					
Well Position	+N/-S	0.00 usft	Northing:	1,592,878.10000 usft	Latitude:	39.43292
	+E/-W	0.00 usft	Easting:	2,272,788.10000 usft	Longitude:	-108.07497
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,173.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	4/23/2013	10.11	65.64	52,065

Design	Design #2 02May14 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	292.22

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	
1,789.47	57.73	292.22	1,524.19	288.50	-706.39	3.50	3.50	0.00	292.22	
2,607.82	57.73	292.22	1,961.10	550.12	-1,346.99	0.00	0.00	0.00	0.00	
4,844.39	13.00	292.22	3,739.00	1,027.23	-2,515.20	2.00	-2.00	0.00	180.00	Top Gas (50' Radius)
5,494.39	0.00	0.00	4,383.44	1,054.99	-2,583.18	2.00	-2.00	10.43	180.00	
6,749.96	0.00	0.00	5,639.00	1,054.99	-2,583.18	0.00	0.00	0.00	0.00	

WPX
 Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 423-14 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 423-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 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	1,592,878.10000	2,272,788.10000	39.43292	-108.07497	
140.00	0.00	0.00	140.00	0.00	0.00	1,592,878.10000	2,272,788.10000	39.43292	-108.07497	
Start Build 3.50										
200.00	2.10	292.22	199.99	0.42	-1.02	1,592,878.54434	2,272,787.09441	39.43292	-108.07498	
400.00	9.10	292.22	398.91	7.79	-19.07	1,592,886.42719	2,272,769.25491	39.43294	-108.07504	
600.00	16.10	292.22	593.97	24.28	-59.44	1,592,904.04904	2,272,729.37530	39.43299	-108.07518	
800.00	23.10	292.22	782.26	49.63	-121.51	1,592,931.14718	2,272,668.05011	39.43306	-108.07540	
951.87	28.42	292.22	919.00	74.57	-182.59	1,592,957.81194	2,272,607.70567	39.43313	-108.07562	
Top of "G" Sand										
1,000.00	30.10	292.22	960.98	83.46	-204.36	1,592,967.31764	2,272,586.19354	39.43315	-108.07570	
1,067.89	32.48	292.22	1,019.00	96.79	-237.00	1,592,981.56727	2,272,553.94551	39.43319	-108.07581	
Base of "G" Sand										
1,200.00	37.10	292.22	1,127.46	125.28	-306.76	1,593,012.02120	2,272,485.02589	39.43327	-108.07606	
1,400.00	44.10	292.22	1,279.22	174.46	-427.18	1,593,064.59144	2,272,366.05535	39.43340	-108.07649	
1,600.00	51.10	292.22	1,414.00	230.27	-563.82	1,593,124.24464	2,272,231.05548	39.43355	-108.07697	
1,789.47	57.73	292.22	1,524.19	288.50	-706.39	1,593,186.48508	2,272,090.20053	39.43371	-108.07747	
Hold 57.73° Inc, 292.22° Az										
1,800.00	57.73	292.22	1,529.81	291.86	-714.64	1,593,190.08426	2,272,082.05530	39.43372	-108.07750	
1,839.47	57.73	292.22	1,550.89	304.48	-745.53	1,593,203.57259	2,272,051.53015	39.43376	-108.07761	
9 5/8"										
2,000.00	57.73	292.22	1,636.59	355.80	-871.19	1,593,258.43154	2,271,927.38008	39.43390	-108.07806	
2,200.00	57.73	292.22	1,743.37	419.74	-1,027.75	1,593,326.77883	2,271,772.70485	39.43407	-108.07861	
2,400.00	57.73	292.22	1,850.15	483.68	-1,184.31	1,593,395.12611	2,271,618.02962	39.43425	-108.07917	
2,600.00	57.73	292.22	1,956.93	547.62	-1,340.87	1,593,463.47339	2,271,463.35440	39.43443	-108.07972	
2,607.82	57.73	292.22	1,961.10	550.12	-1,346.99	1,593,466.14688	2,271,457.30409	39.43443	-108.07974	
Begin Drop -2.00°/100										
2,800.00	53.89	292.22	2,069.07	610.21	-1,494.13	1,593,530.38110	2,271,311.93703	39.43460	-108.08026	
3,000.00	49.89	292.22	2,192.49	669.70	-1,639.78	1,593,593.96661	2,271,168.03808	39.43476	-108.08078	
3,200.00	45.89	292.22	2,326.58	725.78	-1,777.10	1,593,653.91783	2,271,032.36379	39.43491	-108.08127	
3,400.00	41.89	292.22	2,470.69	778.19	-1,905.43	1,593,709.94268	2,270,905.57517	39.43506	-108.08172	
3,600.00	37.89	292.22	2,624.12	826.68	-2,024.15	1,593,761.76823	2,270,788.28994	39.43519	-108.08214	
3,656.44	36.76	292.22	2,669.00	839.61	-2,055.83	1,593,775.59801	2,270,756.99206	39.43523	-108.08225	
Mesaverde										
3,800.00	33.89	292.22	2,786.12	871.00	-2,132.66	1,593,809.14197	2,270,681.07946	39.43531	-108.08252	
4,000.00	29.89	292.22	2,955.90	910.93	-2,230.45	1,593,851.83312	2,270,584.46608	39.43542	-108.08287	
4,200.00	25.89	292.22	3,132.64	946.30	-2,317.04	1,593,889.63366	2,270,498.92047	39.43552	-108.08318	
4,400.00	21.89	292.22	3,315.47	976.91	-2,392.00	1,593,922.35947	2,270,424.85941	39.43560	-108.08344	
4,600.00	17.89	292.22	3,503.50	1,002.63	-2,454.97	1,593,949.85109	2,270,362.64374	39.43567	-108.08367	
4,800.00	13.89	292.22	3,695.82	1,023.33	-2,505.65	1,593,971.97460	2,270,312.57653	39.43573	-108.08384	
4,844.39	13.00	292.22	3,739.00	1,027.23	-2,515.20	1,593,976.14582	2,270,303.13673	39.43574	-108.08388	
Top Gas - Approx. Top Gas										
5,000.00	9.89	292.22	3,891.50	1,038.90	-2,543.78	1,593,988.62219	2,270,274.90172	39.43577	-108.08398	
5,200.00	5.89	292.22	4,089.56	1,049.28	-2,569.19	1,593,999.71278	2,270,249.80285	39.43580	-108.08407	
5,400.00	1.89	292.22	4,289.06	1,054.40	-2,581.74	1,594,005.19233	2,270,237.40222	39.43582	-108.08411	
5,494.39	0.00	0.00	4,383.44	1,054.99	-2,583.18	1,594,005.82076	2,270,235.98002	39.43582	-108.08412	
Vertical										
5,600.00	0.00	0.00	4,489.05	1,054.99	-2,583.18	1,594,005.82076	2,270,235.98002	39.43582	-108.08412	
5,800.00	0.00	0.00	4,689.05	1,054.99	-2,583.18	1,594,005.82077	2,270,235.98002	39.43582	-108.08412	
6,000.00	0.00	0.00	4,889.05	1,054.99	-2,583.18	1,594,005.82077	2,270,235.98002	39.43582	-108.08412	
6,154.96	0.00	0.00	5,044.00	1,054.99	-2,583.18	1,594,005.82077	2,270,235.98002	39.43582	-108.08412	
Cameo Coals										

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 423-14 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 423-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 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	
6,200.00	0.00	0.00	5,089.05	1,054.99	-2,583.18	1,594,005.82077	2,270,235.98002	39.43582	-108.08412	
6,400.00	0.00	0.00	5,289.05	1,054.99	-2,583.18	1,594,005.82078	2,270,235.98002	39.43582	-108.08412	
6,600.00	0.00	0.00	5,489.05	1,054.99	-2,583.18	1,594,005.82078	2,270,235.98002	39.43582	-108.08412	
6,649.96	0.00	0.00	5,539.00	1,054.99	-2,583.18	1,594,005.82078	2,270,235.98002	39.43582	-108.08412	
Rollins SS										
6,749.00	0.00	0.00	5,638.05	1,054.99	-2,583.18	1,594,005.82078	2,270,235.98002	39.43582	-108.08412	
TD at 6749.95										
6,749.96	0.00	0.00	5,639.00	1,054.99	-2,583.18	1,594,005.82078	2,270,235.98002	39.43582	-108.08412	
TD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Top Gas (50' Radius) GM - hit/miss target - Shape - plan misses target center by 35.85usft at 4851.69usft MD (3746.11 TVD, 1027.85 N, -2516.71 E) - Circle (radius 50.00)	0.00	0.00	3,739.00	1,040.42	-2,549.53	1,593,990.30000	2,270,269.20000	39.43578	-108.08400	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)		
1,839.47	1,550.89	9 5/8"	9.625	13.500		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
951.87	919.00	Top of "G" Sand				
1,067.89	1,019.00	Base of "G" Sand				
3,656.44	2,669.00	Mesaverde				
4,844.39	3,739.00	Approx. Top Gas				
6,154.96	5,044.00	Cameo Coals				
6,649.96	5,539.00	Rollins SS				
6,749.96	5,639.00	TD				

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well GM 423-14 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Project:	GV 14-07S-096W	MD Reference:	KELLY BUSHING @ 5199.00usft (Nabors 574 rig (26' RKB) kjs)
Site:	GM 34-14 Pad	North Reference:	True
Well:	GM 423-14	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 02May14 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 3.50	
1,789.47	1,524.19	288.50	-706.39	Hold 57.73° Inc, 292.22° Az	
2,607.82	1,961.10	550.12	-1,346.99	Begin Drop -2.00°/100	
4,844.39	3,739.00	1,027.23	-2,515.20	Top Gas	
5,494.39	4,383.44	1,054.99	-2,583.18	Vertical	
6,749.00	5,638.05	1,054.99	-2,583.18	TD at 6749.95	