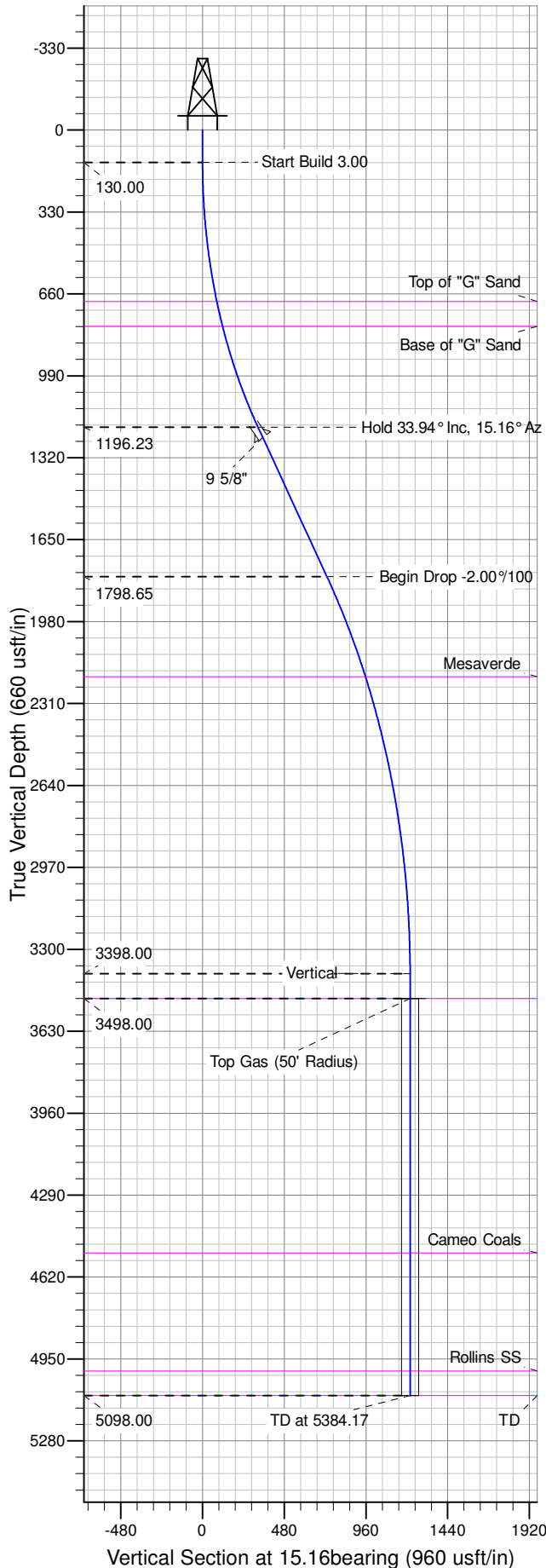
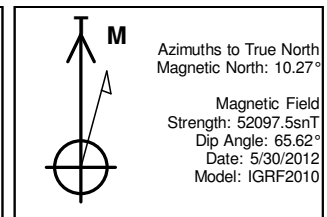
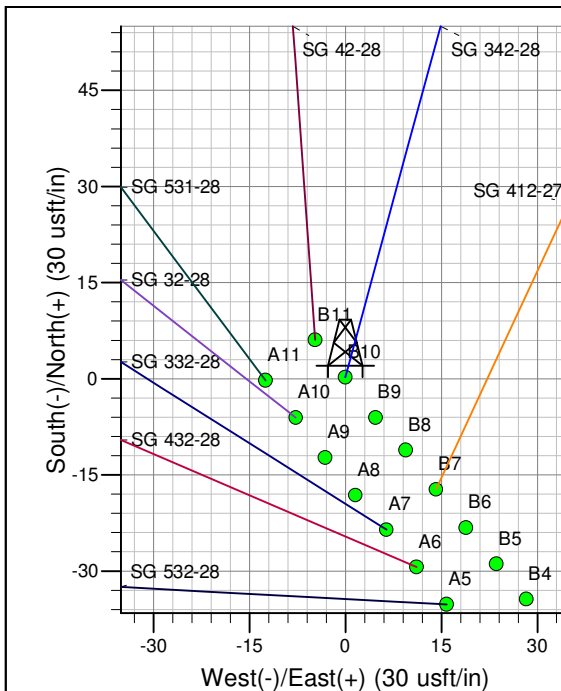
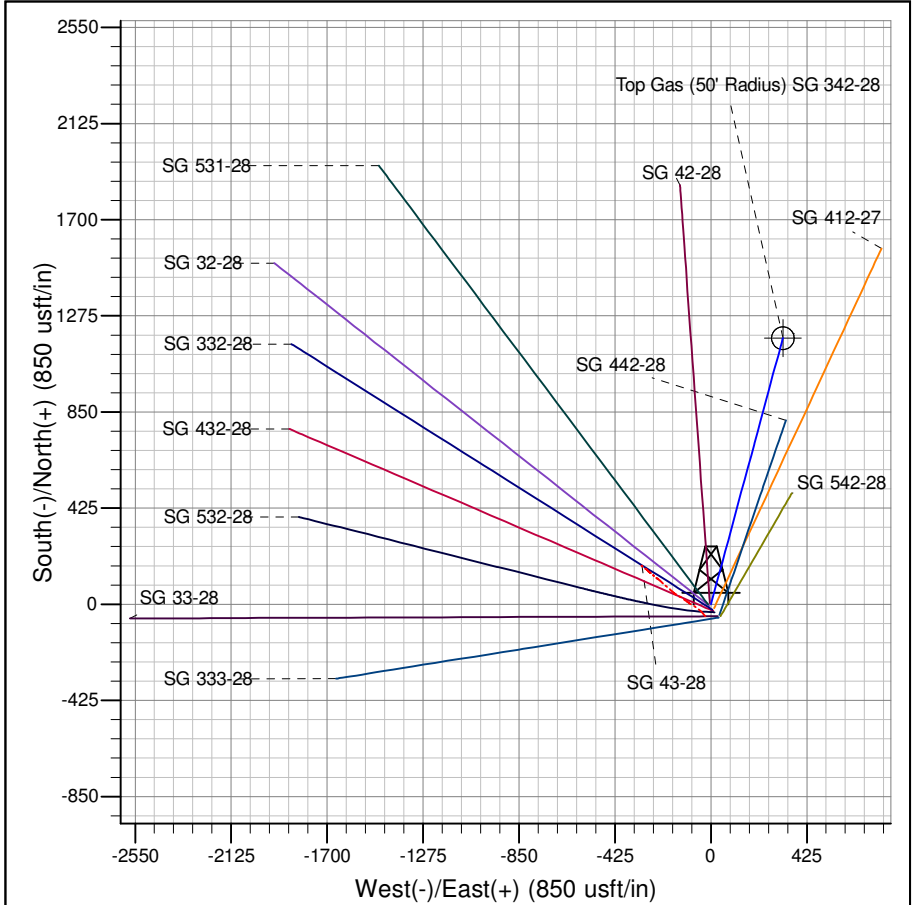




Well Name: SG 342-28
Surface Location: SG 43-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5119.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.22 -0.02 1583890.03000 2263442.78000 39.40752 -108.10713 B10
KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation	
130.00	130.00	0.00	0.00	0.22	-0.02	0.00	0.00	Start Build 3.00	
1196.23	1261.22	33.94	15.16	314.24	85.05	325.34	325.34	Hold 33.94° Inc, 15.16° Az	
1798.65	1987.34	33.94	15.16	705.51	191.05	730.71	730.71	Begin Drop -2.00%/100	
3398.00	3684.17	0.00	0.00	1176.53	318.66	1218.71	1218.71	Vertical	
3498.00	3784.17	0.00	0.00	1176.53	318.66	1218.71	1218.71	Top Gas	
5098.00	5384.17	0.00	0.00	1176.53	318.66	1218.71	1218.71	TD at 5384.17	



Project: SG 28-07S-096W
Site: SG 43-28 Pad
Well: SG 342-28
Design #3 16Apr14 mab

PICEANCE VLY NAD 83

SG 28-07S-096W

SG 43-28 Pad

SG 342-28 - Slot B10

Wellbore #1

Plan: Design #3 16Apr14 mab

Standard Planning Report - Geographic

23 May, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 342-28 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Project:	SG 28-07S-096W	MD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Site:	SG 43-28 Pad	North Reference:	True
Well:	SG 342-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 16Apr14 mab		

Project	SG 28-07S-096W, Garfield County, CO, 28-07S-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	SG 43-28 Pad		
Site Position:		Northing:	1,583,837.93900 usft
From:	Map	Easting:	2,263,416.17600 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	39.40738
		Longitude:	-108.10722
		Grid Convergence:	-1.64 °

Well	SG 342-28 - Slot B10		
Well Position	+N/-S	0.22 usft	Northing: 1,583,890.03000 usft
	+E/-W	-0.02 usft	Easting: 2,263,442.78000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.40752
			Longitude: -108.10713
			Ground Level: 5,119.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/30/2012	10.27	65.62	52,097

Design	Design #3 16Apr14 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	0.22	-0.02	15.16

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	0.22	-0.02	0.00	0.00	0.00	0.00	
130.00	0.00	0.00	130.00	0.22	-0.02	0.00	0.00	0.00	0.00	
1,261.22	33.94	15.16	1,196.23	314.24	85.05	3.00	3.00	0.00	15.16	
1,987.34	33.94	15.16	1,798.65	705.51	191.05	0.00	0.00	0.00	0.00	
3,684.17	0.00	0.00	3,398.00	1,176.53	318.66	2.00	-2.00	0.00	180.00	
3,784.17	0.00	0.00	3,498.00	1,176.53	318.66	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
5,384.17	0.00	0.00	5,098.00	1,176.53	318.66	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 342-28 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Project:	SG 28-07S-096W	MD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Site:	SG 43-28 Pad	North Reference:	True
Well:	SG 342-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 16Apr14 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	0.22	-0.02	1,583,890.03000	2,263,442.78000	39.40752	-108.10713
130.00	0.00	0.00	130.00	0.22	-0.02	1,583,890.03000	2,263,442.78000	39.40752	-108.10713
Start Build 3.00									
200.00	2.10	15.16	199.98	1.46	0.32	1,583,891.25785	2,263,443.15077	39.40753	-108.10713
400.00	8.10	15.16	399.10	18.61	4.97	1,583,908.26905	2,263,448.28759	39.40757	-108.10712
600.00	14.10	15.16	595.27	55.76	15.03	1,583,945.11087	2,263,459.41262	39.40768	-108.10708
698.35	17.05	15.16	690.00	81.25	21.93	1,583,970.38721	2,263,467.04525	39.40775	-108.10706
Top of "G" Sand									
800.00	20.10	15.16	786.34	112.50	30.40	1,584,001.37968	2,263,476.40397	39.40783	-108.10703
803.90	20.22	15.16	790.00	113.79	30.75	1,584,002.66527	2,263,476.79217	39.40784	-108.10702
Base of "G" Sand									
1,000.00	26.10	15.16	970.22	188.20	50.91	1,584,076.45899	2,263,499.07546	39.40804	-108.10695
1,200.00	32.10	15.16	1,144.90	282.04	76.33	1,584,169.52620	2,263,527.17872	39.40830	-108.10686
1,261.22	33.94	15.16	1,196.23	314.24	85.05	1,584,201.46034	2,263,536.82179	39.40839	-108.10683
Hold 33.94° Inc, 15.16° Az									
1,311.22	33.94	15.16	1,237.71	341.18	92.35	1,584,228.17899	2,263,544.88995	39.40846	-108.10681
9 5/8"									
1,400.00	33.94	15.16	1,311.37	389.02	105.31	1,584,275.62440	2,263,559.21691	39.40859	-108.10676
1,600.00	33.94	15.16	1,477.30	496.79	134.51	1,584,382.50749	2,263,591.49211	39.40889	-108.10666
1,800.00	33.94	15.16	1,643.23	604.56	163.71	1,584,489.39057	2,263,623.76731	39.40918	-108.10655
1,987.34	33.94	15.16	1,798.65	705.51	191.05	1,584,589.50695	2,263,653.99919	39.40946	-108.10646
Begin Drop -2.00°/100									
2,000.00	33.68	15.16	1,809.17	712.31	192.90	1,584,596.25142	2,263,656.03580	39.40948	-108.10645
2,200.00	29.68	15.16	1,979.33	813.68	220.36	1,584,696.78649	2,263,686.39410	39.40976	-108.10635
2,400.00	25.68	15.16	2,156.40	903.34	244.65	1,584,785.71437	2,263,713.24741	39.41000	-108.10627
2,450.39	24.68	15.16	2,202.00	924.03	250.26	1,584,806.23490	2,263,719.44394	39.41006	-108.10625
Mesaverde									
2,600.00	21.68	15.16	2,339.52	980.87	265.65	1,584,862.60181	2,263,736.46491	39.41022	-108.10619
2,800.00	17.68	15.16	2,527.80	1,045.88	283.26	1,584,927.07423	2,263,755.93347	39.41039	-108.10613
3,000.00	13.68	15.16	2,720.31	1,098.05	297.40	1,584,978.81751	2,263,771.55825	39.41054	-108.10608
3,200.00	9.68	15.16	2,916.13	1,137.13	307.99	1,585,017.57957	2,263,783.26312	39.41065	-108.10604
3,400.00	5.68	15.16	3,114.29	1,162.94	314.98	1,585,043.17156	2,263,790.99107	39.41072	-108.10602
3,600.00	1.68	15.16	3,313.84	1,175.34	318.34	1,585,055.46881	2,263,794.70444	39.41075	-108.10601
3,684.17	0.00	0.00	3,398.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
Vertical									
3,784.17	0.00	0.00	3,498.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
Top Gas - Approx. Top Gas									
3,800.00	0.00	0.00	3,513.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,000.00	0.00	0.00	3,713.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,200.00	0.00	0.00	3,913.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,400.00	0.00	0.00	4,113.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,600.00	0.00	0.00	4,313.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,800.00	0.00	0.00	4,513.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
4,809.17	0.00	0.00	4,523.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
Cameo Coals									
5,000.00	0.00	0.00	4,713.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
5,200.00	0.00	0.00	4,913.83	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
5,284.17	0.00	0.00	4,998.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
Rollins SS									
5,384.17	0.00	0.00	5,098.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601
TD at 5384.17									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 342-28 - Slot B10
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Project:	SG 28-07S-096W	MD Reference:	KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)
Site:	SG 43-28 Pad	North Reference:	True
Well:	SG 342-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 16Apr14 mab		

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) SC - plan hits target center - Circle (radius 50.00)	0.00	0.00	3,498.00	1,176.53	318.66	1,585,056.65248	2,263,795.06187	39.41075	-108.10601

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,311.22	1,237.71	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
698.35	690.00	Top of "G" Sand				
803.90	790.00	Base of "G" Sand				
2,450.39	2,202.00	Mesaverde				
3,784.17	3,498.00	Approx. Top Gas				
4,809.17	4,523.00	Cameo Coals				
5,284.17	4,998.00	Rollins SS				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
130.00	130.00	0.22	-0.02	Start Build 3.00	
1,261.22	1,196.23	314.24	85.05	Hold 33.94° Inc, 15.16° Az	
1,987.34	1,798.65	705.51	191.05	Begin Drop -2.00°/100	
3,684.17	3,398.00	1,176.53	318.66	Vertical	
3,784.17	3,498.00	1,176.53	318.66	Top Gas	
5,384.17	5,098.00	1,176.53	318.66	TD at 5384.17	