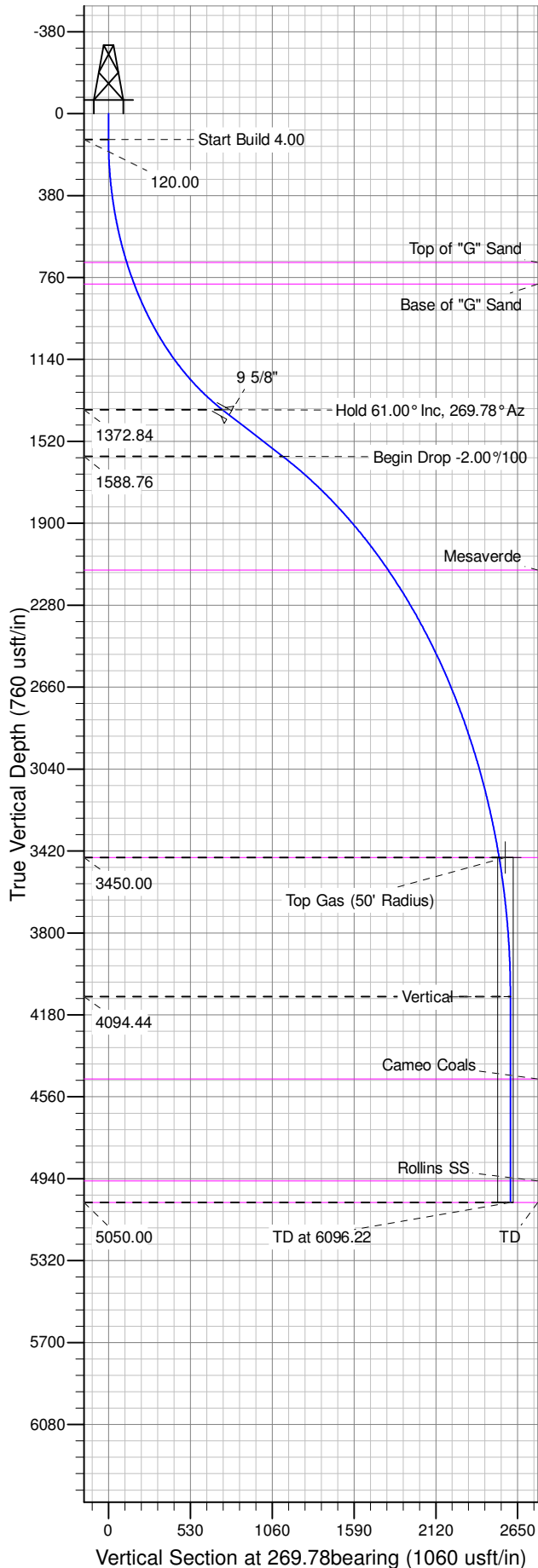
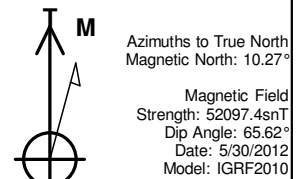
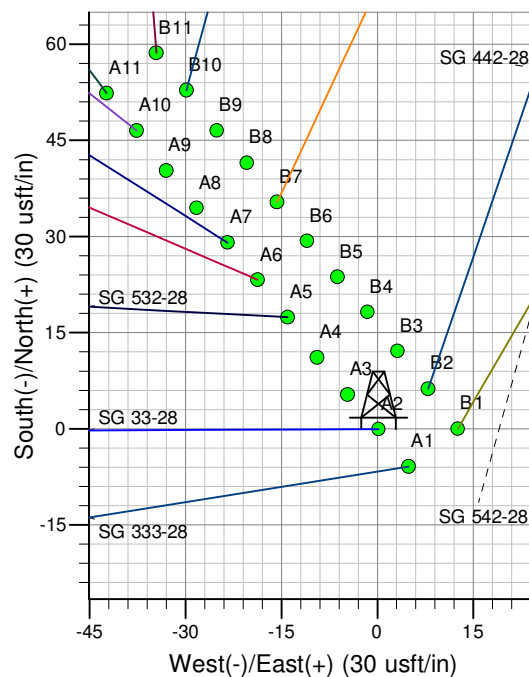
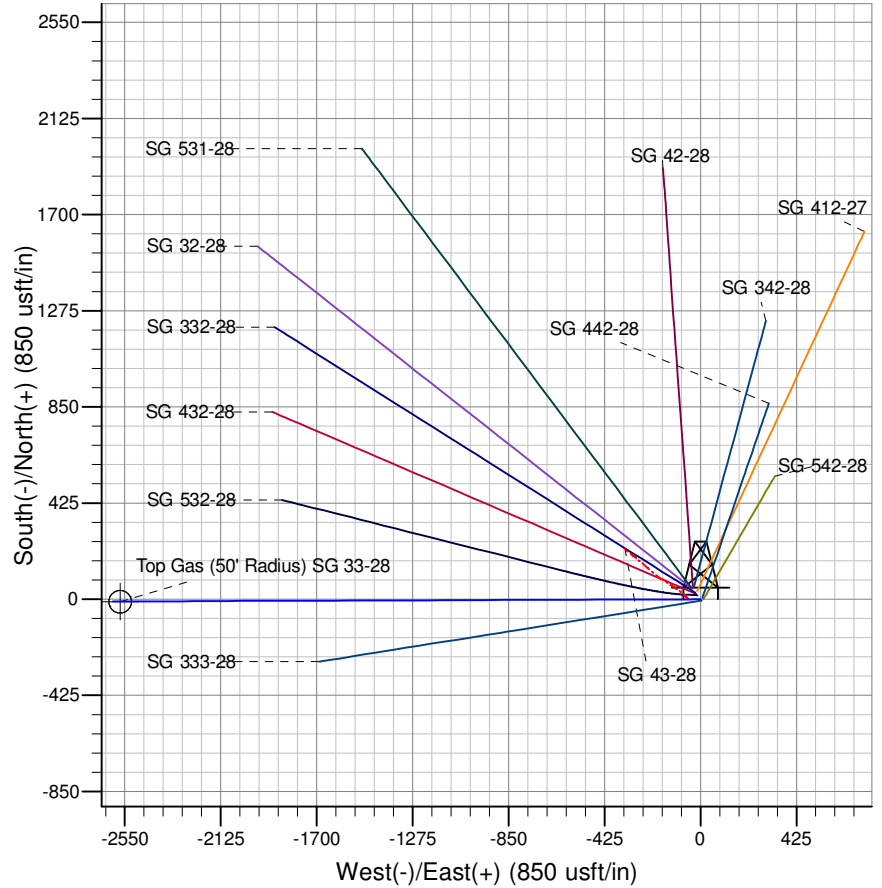




Well Name: SG 33-28
Surface Location: SG 43-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5119.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
-0.06 0.16 1583836.30000 2263471.26000 39.40738 -108.10702 A2
KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	-0.06	0.16	0.00	0.00	Start Build 4.00	
1372.84	1645.08	61.00	269.78	-2.87	-737.86	738.02	738.02	Hold 61.00° Inc, 269.78° Az	
1588.76	2090.50	61.00	269.78	-4.35	-1127.44	1127.61	1127.61	Begin Drop -2.00°/100	
3450.00	4490.65	13.00	269.75	-9.85	-2530.05	2530.23	2530.23	Top Gas	
4094.44	5140.65	0.00	0.00	-10.17	-2603.48	2603.66	2603.66	Vertical	
5050.00	6096.22	0.00	0.00	-10.17	-2603.48	2603.66	2603.66	TD at 6096.22	



Project: SG 28-07S-096W
Site: SG 43-28 Pad
Well: SG 33-28
Design #3 16Apr14 mab

PICEANCE VLY NAD 83

SG 28-07S-096W

SG 43-28 Pad

SG 33-28 - Slot A2

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 33-28 - Slot A2
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 33-28	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 33-28 - Slot A2		
Well Position	+N/-S	-0.06 usft	Northing: 1,583,836.30000 usft
	+E/-W	0.16 usft	Easting: 2,263,471.26000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.40738
			Longitude: -108.10703
			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	-0.06	0.16	269.78	

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	-0.06	0.16	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	-0.06	0.16	0.00	0.00	0.00	0.00	
1,645.08	61.00	269.78	1,372.84	-2.87	-737.86	4.00	4.00	0.00	269.78	
2,090.50	61.00	269.78	1,588.76	-4.35	-1,127.44	0.00	0.00	0.00	0.00	
4,490.65	13.00	269.75	3,450.00	-9.85	-2,530.05	2.00	-2.00	0.00	-179.99	Top Gas (50' Radius)
5,140.65	0.00	0.00	4,094.44	-10.17	-2,603.48	2.00	-2.00	13.88	180.00	
6,096.22	0.00	0.00	5,050.00	-10.17	-2,603.48	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 33-28 - Slot A2
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 33-28	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	-0.06	0.16	1,583,836.30000	2,263,471.26000	39.40738	-108.10703
120.00	0.00	0.00	120.00	-0.06	0.16	1,583,836.30000	2,263,471.26000	39.40738	-108.10703
Start Build 4.00									
200.00	3.20	269.78	199.96	-0.06	-2.07	1,583,836.35558	2,263,469.02736	39.40738	-108.10704
400.00	11.20	269.78	398.22	-0.16	-27.12	1,583,836.97886	2,263,443.99008	39.40738	-108.10712
600.00	19.20	269.78	591.07	-0.36	-79.51	1,583,838.28272	2,263,391.61366	39.40738	-108.10731
706.23	23.45	269.78	690.00	-0.51	-118.13	1,583,839.24381	2,263,353.00620	39.40738	-108.10745
Top of "G" Sand									
800.00	27.20	269.78	774.74	-0.66	-158.24	1,583,840.24178	2,263,312.91757	39.40738	-108.10759
817.21	27.89	269.78	790.00	-0.69	-166.19	1,583,840.43977	2,263,304.96401	39.40738	-108.10762
Base of "G" Sand									
1,000.00	35.20	269.78	945.68	-1.05	-261.76	1,583,842.81791	2,263,209.43354	39.40738	-108.10795
1,200.00	43.20	269.78	1,100.54	-1.53	-388.06	1,583,845.96097	2,263,083.17574	39.40737	-108.10840
1,400.00	51.20	269.78	1,236.32	-2.09	-534.69	1,583,849.60979	2,262,936.60166	39.40737	-108.10892
1,600.00	59.20	269.78	1,350.37	-2.72	-698.78	1,583,853.69334	2,262,772.56420	39.40737	-108.10950
1,645.08	61.00	269.78	1,372.84	-2.87	-737.86	1,583,854.66577	2,262,733.50109	39.40737	-108.10964
Hold 61.00° Inc, 269.78° Az									
1,695.08	61.00	269.78	1,397.08	-3.03	-781.59	1,583,855.75409	2,262,689.78292	39.40737	-108.10979
9 5/8"									
1,800.00	61.00	269.78	1,447.94	-3.38	-873.36	1,583,858.03774	2,262,598.04804	39.40737	-108.11012
2,000.00	61.00	269.78	1,544.89	-4.05	-1,048.29	1,583,862.39086	2,262,423.18170	39.40737	-108.11074
2,090.50	61.00	269.78	1,588.76	-4.35	-1,127.44	1,583,864.36059	2,262,344.05706	39.40737	-108.11102
Begin Drop -2.00°/100									
2,200.00	58.81	269.78	1,643.66	-4.71	-1,222.18	1,583,866.71781	2,262,249.35274	39.40737	-108.11135
2,400.00	54.81	269.78	1,753.11	-5.35	-1,389.52	1,583,870.87972	2,262,082.06898	39.40736	-108.11195
2,600.00	50.81	269.78	1,873.97	-5.96	-1,548.82	1,583,874.83915	2,261,922.82492	39.40736	-108.11251
2,800.00	46.81	269.78	2,005.65	-6.54	-1,699.30	1,583,878.57682	2,261,772.39636	39.40736	-108.11304
2,958.14	43.65	269.78	2,117.00	-6.98	-1,811.56	1,583,881.36310	2,261,660.18066	39.40736	-108.11344
Mesaverde									
3,000.00	42.81	269.78	2,147.50	-7.09	-1,840.23	1,583,882.07453	2,261,631.51620	39.40736	-108.11354
3,200.00	38.81	269.78	2,298.84	-7.60	-1,970.92	1,583,885.31522	2,261,500.87076	39.40736	-108.11400
3,400.00	34.81	269.77	2,458.93	-8.07	-2,090.74	1,583,888.28310	2,261,381.09656	39.40736	-108.11443
3,600.00	30.81	269.77	2,626.98	-8.50	-2,199.09	1,583,890.96373	2,261,272.77713	39.40736	-108.11481
3,800.00	26.81	269.77	2,802.18	-8.88	-2,295.46	1,583,893.34404	2,261,176.44017	39.40735	-108.11515
4,000.00	22.81	269.77	2,983.68	-9.22	-2,379.38	1,583,895.41244	2,261,092.55503	39.40735	-108.11545
4,200.00	18.81	269.76	3,170.60	-9.51	-2,450.43	1,583,897.15884	2,261,021.53040	39.40735	-108.11570
4,400.00	14.81	269.75	3,362.01	-9.76	-2,508.27	1,583,898.57474	2,260,963.71230	39.40735	-108.11590
4,490.65	13.00	269.75	3,450.00	-9.85	-2,530.05	1,583,899.10575	2,260,941.93317	39.40735	-108.11598
Top Gas - Approx. Top Gas									
4,600.00	10.81	269.75	3,556.99	-9.95	-2,552.61	1,583,899.65460	2,260,919.38250	39.40735	-108.11606
4,800.00	6.81	269.75	3,754.59	-10.08	-2,583.25	1,583,900.39998	2,260,888.75705	39.40735	-108.11617
5,000.00	2.81	269.75	3,953.84	-10.16	-2,600.02	1,583,900.80819	2,260,871.98520	39.40735	-108.11623
5,140.65	0.00	0.00	4,094.44	-10.17	-2,603.48	1,583,900.89218	2,260,868.53421	39.40735	-108.11624
Vertical									
5,200.00	0.00	0.00	4,153.78	-10.17	-2,603.48	1,583,900.89218	2,260,868.53421	39.40735	-108.11624
5,400.00	0.00	0.00	4,353.78	-10.17	-2,603.48	1,583,900.89218	2,260,868.53421	39.40735	-108.11624
5,523.22	0.00	0.00	4,477.00	-10.17	-2,603.48	1,583,900.89218	2,260,868.53421	39.40735	-108.11624
Cameo Coals									
5,600.00	0.00	0.00	4,553.78	-10.17	-2,603.48	1,583,900.89219	2,260,868.53421	39.40735	-108.11624
5,800.00	0.00	0.00	4,753.78	-10.17	-2,603.48	1,583,900.89219	2,260,868.53421	39.40735	-108.11624

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 33-28 - Slot A2
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 33-28	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
5,996.22	0.00	0.00	4,950.00	-10.17	-2,603.48	1,583,900.89219	2,260,868.53421	39.40735	-108.11624
Rollins SS									
6,000.00	0.00	0.00	4,953.78	-10.17	-2,603.48	1,583,900.89219	2,260,868.53421	39.40735	-108.11624
6,096.22	0.00	0.00	5,050.00	-10.17	-2,603.48	1,583,900.89219	2,260,868.53421	39.40735	-108.11624
TD at 6096.22 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (50' Radius) SC	0.00	0.00	3,450.00	-11.09	-2,570.97	1,583,899.04000	2,260,901.00000	39.40735	-108.11613
- plan misses target center by 39.91usft at 4499.10usft MD (3458.23 TVD, -9.86 N, -2531.94 E)									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,695.08	1,397.08	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
706.23	690.00	Top of "G" Sand				
817.21	790.00	Base of "G" Sand				
2,958.14	2,117.00	Mesaverde				
4,490.65	3,450.00	Approx. Top Gas				
5,523.22	4,477.00	Cameo Coals				
5,996.22	4,950.00	Rollins SS				
6,096.22	5,050.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	-0.06	0.16	Start Build 4.00	
1,645.08	1,372.84	-2.87	-737.86	Hold 61.00° Inc, 269.78° Az	
2,090.50	1,588.76	-4.35	-1,127.44	Begin Drop -2.00°/100	
4,490.65	3,450.00	-9.85	-2,530.05	Top Gas	
5,140.65	4,094.44	-10.17	-2,603.48	Vertical	
6,096.22	5,050.00	-10.17	-2,603.48	TD at 6096.22	