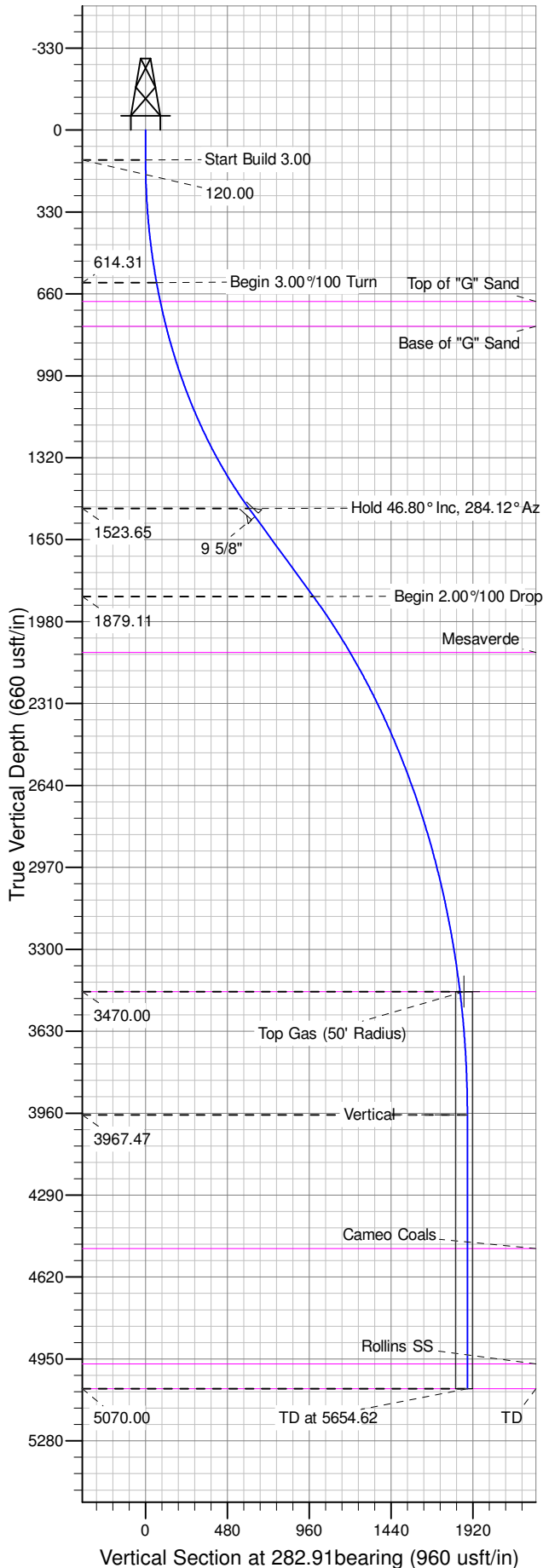
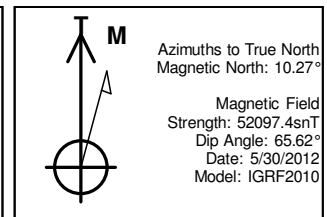
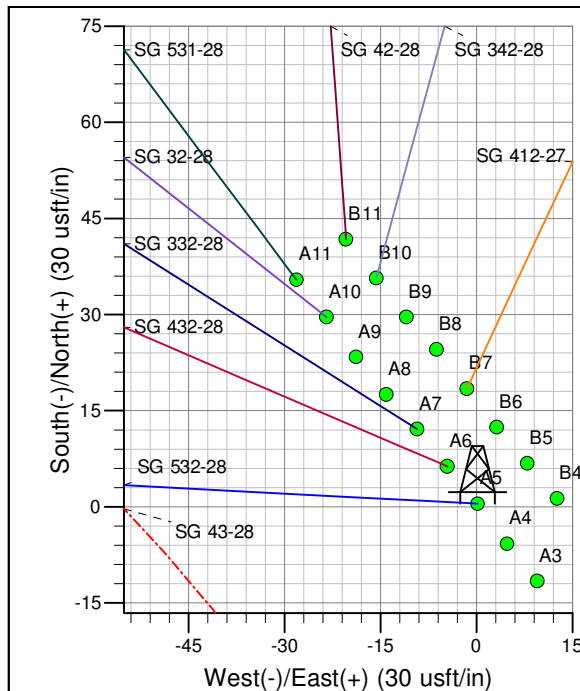
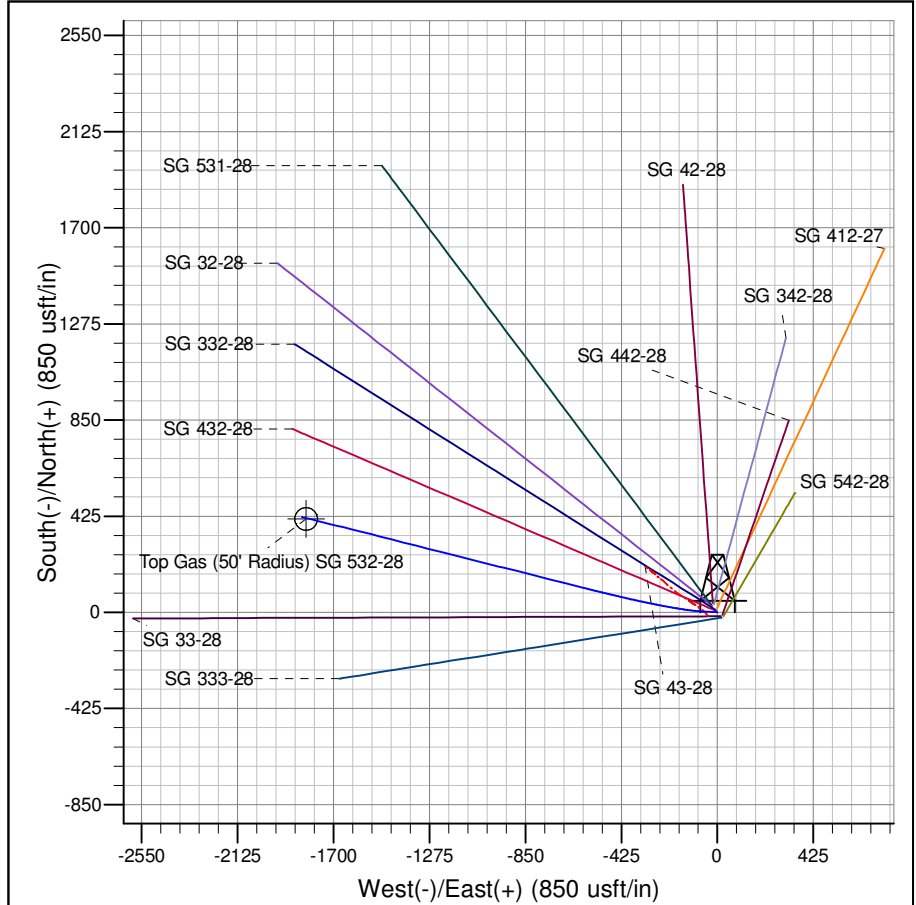




Well Name: SG 532-28
Surface Location: SG 43-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5119.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.49 0.19 1583854.17000 2263457.60000 39.40743 -108.10707 A5
KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.49	0.19	0.00	0.00	Start Build 3.00	
614.31	620.00	15.00	273.00	3.90	-64.80	64.11	65.08	Begin 3.00%/100 Turn	
1523.65	1692.79	46.80	284.12	109.37	-596.70	606.12	607.91	Hold 46.80° Inc, 284.12° Az	
1879.11	2212.06	46.80	284.12	201.73	-963.79	984.57	986.45	Begin 2.00%/100 Drop	
3470.00	4052.08	10.00	284.12	411.62	-1797.99	1844.58	1846.65	Top Gas	
3967.47	4552.08	0.00	0.00	422.24	-1840.19	1888.09	1890.17	Vertical	
5070.00	5654.62	0.00	0.00	422.24	-1840.19	1888.09	1890.17	TD at 5654.62	



Project: SG 28-07S-096W
Site: SG 43-28 Pad
Well: SG 532-28
Design #4 19May14 mab

PICEANCE VLY NAD 83

SG 28-07S-096W

SG 43-28 Pad

SG 532-28 - Slot A5

Wellbore #1

Plan: Design #4 19May14 mab

Standard Planning Report - Geographic

23 May, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 532-28 - Slot A5
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 532-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 19May14 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 532-28 - Slot A5		
Well Position	+N/-S	0.49 usft	Northing: 1,583,854.17000 usft
	+E/-W	0.19 usft	Easting: 2,263,457.60000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.40743
			Longitude: -108.10708
			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 #4 19May14 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	0.49	0.19	282.91

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	0.49	0.19	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.49	0.19	0.00	0.00	0.00	0.00	
620.00	15.00	273.00	614.31	3.90	-64.80	3.00	3.00	0.00	273.00	
1,692.79	46.80	284.12	1,523.65	109.37	-596.70	3.00	2.96	1.04	15.31	
2,212.06	46.80	284.12	1,879.11	201.73	-963.79	0.00	0.00	0.00	0.00	
4,052.08	10.00	284.12	3,470.00	411.62	-1,797.99	2.00	-2.00	0.00	-180.00	Top Gas (50' Radius)
4,552.08	0.00	0.00	3,967.47	422.24	-1,840.19	2.00	-2.00	15.18	180.00	
5,654.62	0.00	0.00	5,070.00	422.24	-1,840.19	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 532-28 - Slot A5
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 532-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 19May14 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	0.49	0.19	1,583,854.17000	2,263,457.60000	39.40743	-108.10708
120.00	0.00	0.00	120.00	0.49	0.19	1,583,854.17000	2,263,457.60000	39.40743	-108.10708
Start Build 3.00									
200.00	2.40	273.00	199.98	0.58	-1.49	1,583,854.30564	2,263,455.93031	39.40743	-108.10708
400.00	8.40	273.00	399.00	1.56	-20.27	1,583,855.82884	2,263,437.17995	39.40743	-108.10715
600.00	14.40	273.00	594.96	3.63	-59.73	1,583,859.02803	2,263,397.79824	39.40744	-108.10729
620.00	15.00	273.00	614.31	3.90	-64.80	1,583,859.43894	2,263,392.74002	39.40744	-108.10731
Begin 3.00°/100 Turn									
698.80	17.29	275.10	690.00	5.47	-86.65	1,583,861.64025	2,263,370.94296	39.40744	-108.10738
Top of "G" Sand									
800.00	20.26	277.12	785.80	8.98	-119.02	1,583,866.07522	2,263,338.68745	39.40745	-108.10750
804.48	20.39	277.19	790.00	9.17	-120.57	1,583,866.31305	2,263,337.15078	39.40745	-108.10750
Base of "G" Sand									
1,000.00	26.17	279.80	969.54	20.78	-196.90	1,583,880.10742	2,263,261.18083	39.40748	-108.10777
1,200.00	32.11	281.54	1,144.16	38.94	-292.52	1,583,900.99817	2,263,166.13339	39.40753	-108.10811
1,400.00	38.06	282.79	1,307.75	63.25	-404.81	1,583,928.51858	2,263,054.58647	39.40760	-108.10851
1,600.00	44.03	283.75	1,458.52	93.45	-532.56	1,583,962.36713	2,262,927.76221	39.40768	-108.10896
1,692.79	46.80	284.12	1,523.65	109.37	-596.70	1,583,980.11967	2,262,864.11412	39.40773	-108.10919
Hold 46.80° Inc, 284.12° Az									
1,742.79	46.80	284.12	1,557.87	118.26	-632.04	1,583,990.02337	2,262,829.04021	39.40775	-108.10931
9 5/8"									
1,800.00	46.80	284.12	1,597.04	128.44	-672.49	1,584,001.35564	2,262,788.90694	39.40778	-108.10946
2,000.00	46.80	284.12	1,733.95	164.01	-813.87	1,584,040.97208	2,262,648.60535	39.40788	-108.10996
2,200.00	46.80	284.12	1,870.85	199.59	-955.26	1,584,080.58852	2,262,508.30377	39.40797	-108.11046
2,212.06	46.80	284.12	1,879.11	201.73	-963.79	1,584,082.97746	2,262,499.84335	39.40798	-108.11049
Begin 2.00°/100 Drop									
2,400.00	43.04	284.12	2,012.16	234.11	-1,092.46	1,584,119.03185	2,262,372.15633	39.40807	-108.11094
2,524.54	40.55	284.12	2,105.00	254.36	-1,172.95	1,584,141.58399	2,262,292.28722	39.40812	-108.11123
Mesaverde									
2,600.00	39.04	284.12	2,162.98	266.15	-1,219.79	1,584,154.70790	2,262,245.80827	39.40816	-108.11139
2,800.00	35.04	284.12	2,322.58	295.54	-1,336.60	1,584,187.43813	2,262,129.89193	39.40824	-108.11181
3,000.00	31.04	284.12	2,490.21	322.14	-1,442.34	1,584,217.06306	2,262,024.97203	39.40831	-108.11218
3,200.00	27.04	284.12	2,665.02	345.83	-1,536.47	1,584,243.43838	2,261,931.55973	39.40837	-108.11252
3,400.00	23.04	284.12	2,846.19	366.48	-1,618.55	1,584,266.43559	2,261,850.11012	39.40843	-108.11281
3,600.00	19.04	284.12	3,032.81	384.00	-1,688.18	1,584,285.94264	2,261,781.02003	39.40848	-108.11305
3,800.00	15.04	284.12	3,223.99	398.30	-1,745.01	1,584,301.86451	2,261,724.62604	39.40852	-108.11325
4,000.00	11.04	284.12	3,418.79	409.30	-1,788.76	1,584,314.12361	2,261,681.20293	39.40855	-108.11341
4,052.08	10.00	284.12	3,470.00	411.62	-1,797.99	1,584,316.70711	2,261,672.05139	39.40856	-108.11344
Top Gas - Approx. Top Gas									
4,200.00	7.04	284.12	3,616.27	416.97	-1,819.24	1,584,322.66051	2,261,650.96232	39.40857	-108.11352
4,400.00	3.04	284.12	3,815.45	421.26	-1,836.28	1,584,327.43433	2,261,634.05171	39.40858	-108.11358
4,552.08	0.00	0.00	3,967.47	422.24	-1,840.19	1,584,328.53073	2,261,630.16788	39.40858	-108.11359
Vertical									
4,600.00	0.00	0.00	4,015.38	422.24	-1,840.19	1,584,328.53073	2,261,630.16788	39.40858	-108.11359
4,800.00	0.00	0.00	4,215.38	422.24	-1,840.19	1,584,328.53073	2,261,630.16788	39.40858	-108.11359
5,000.00	0.00	0.00	4,415.38	422.24	-1,840.19	1,584,328.53074	2,261,630.16788	39.40858	-108.11359
5,090.62	0.00	0.00	4,506.00	422.24	-1,840.19	1,584,328.53074	2,261,630.16788	39.40858	-108.11359
Cameo Coals									
5,200.00	0.00	0.00	4,615.38	422.24	-1,840.19	1,584,328.53074	2,261,630.16788	39.40858	-108.11359
5,400.00	0.00	0.00	4,815.38	422.24	-1,840.19	1,584,328.53074	2,261,630.16788	39.40858	-108.11359

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 532-28 - Slot A5
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 532-28	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 19May14 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
5,554.62	0.00	0.00	4,970.00	422.24	-1,840.19	1,584,328.53075	2,261,630.16788	39.40858	-108.11359
Rollins SS									
5,600.00	0.00	0.00	5,015.38	422.24	-1,840.19	1,584,328.53075	2,261,630.16788	39.40858	-108.11359
5,629.62	0.00	0.00	5,045.00	422.24	-1,840.19	1,584,328.53075	2,261,630.16788	39.40858	-108.11359
TD at 5629.62									
5,654.62	0.00	0.00	5,070.00	422.24	-1,840.19	1,584,328.53075	2,261,630.16788	39.40858	-108.11359
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	3,470.00	413.03	-1,821.83	1,584,318.80000	2,261,648.26000	39.40856	-108.11353
- plan misses target center by 23.54usft at 4055.56usft MD (3473.42 TVD, 411.77 N, -1798.57 E)									
- Circle (radius 50.00)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,742.79	1,557.87	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
698.80	690.00	Top of "G" Sand				
804.48	790.00	Base of "G" Sand				
2,524.54	2,105.00	Mesaverde				
4,052.08	3,470.00	Approx. Top Gas				
5,090.62	4,506.00	Cameo Coals				
5,554.62	4,970.00	Rollins SS				
5,654.62	5,070.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.49	0.19	Start Build 3.00	
620.00	614.31	3.90	-64.80	Begin 3.00°/100 Turn	
1,692.79	1,523.65	109.37	-596.70	Hold 46.80° Inc, 284.12° Az	
2,212.06	1,879.11	201.73	-963.79	Begin 2.00°/100 Drop	
4,052.08	3,470.00	411.62	-1,797.99	Top Gas	
4,552.08	3,967.47	422.24	-1,840.19	Vertical	
5,629.62	5,045.00	422.24	-1,840.19	TD at 5629.62	