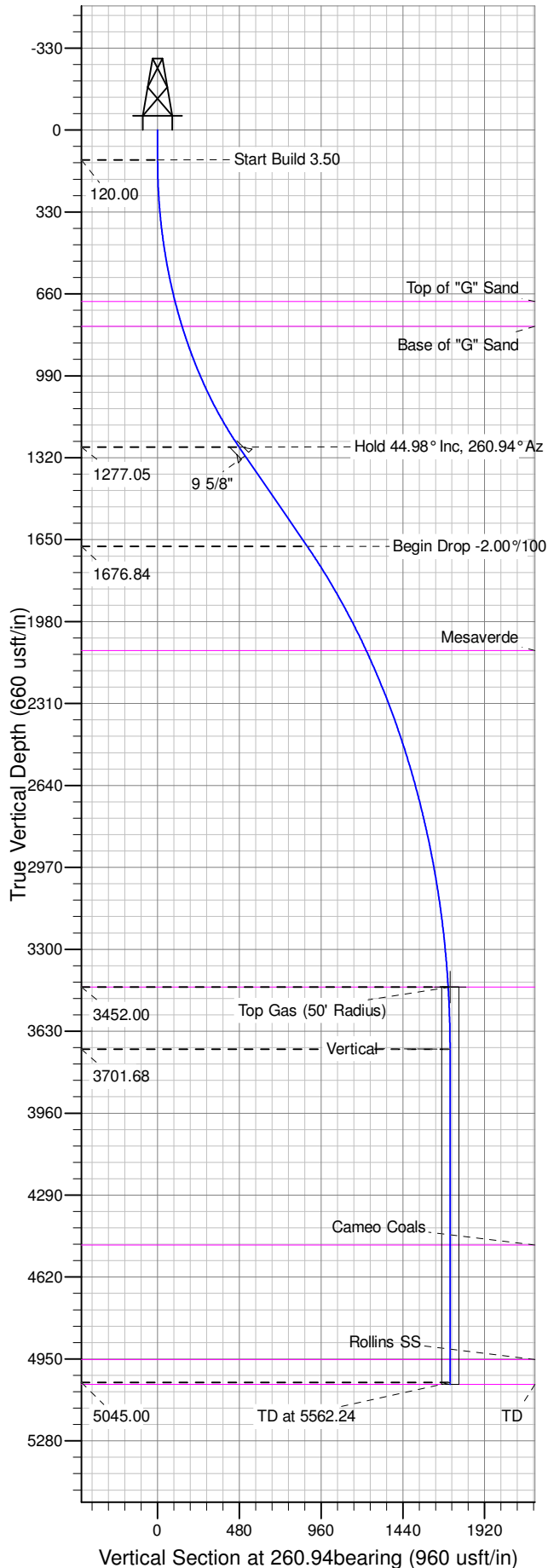
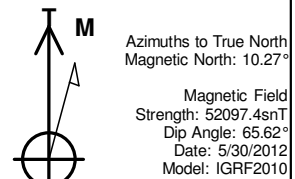
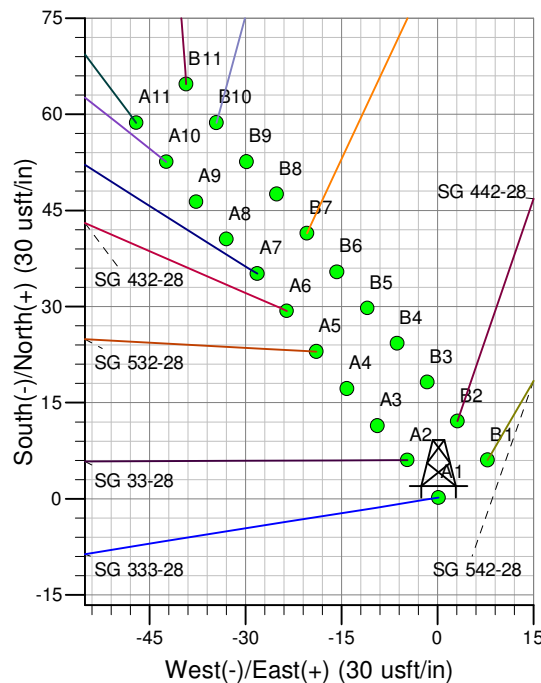
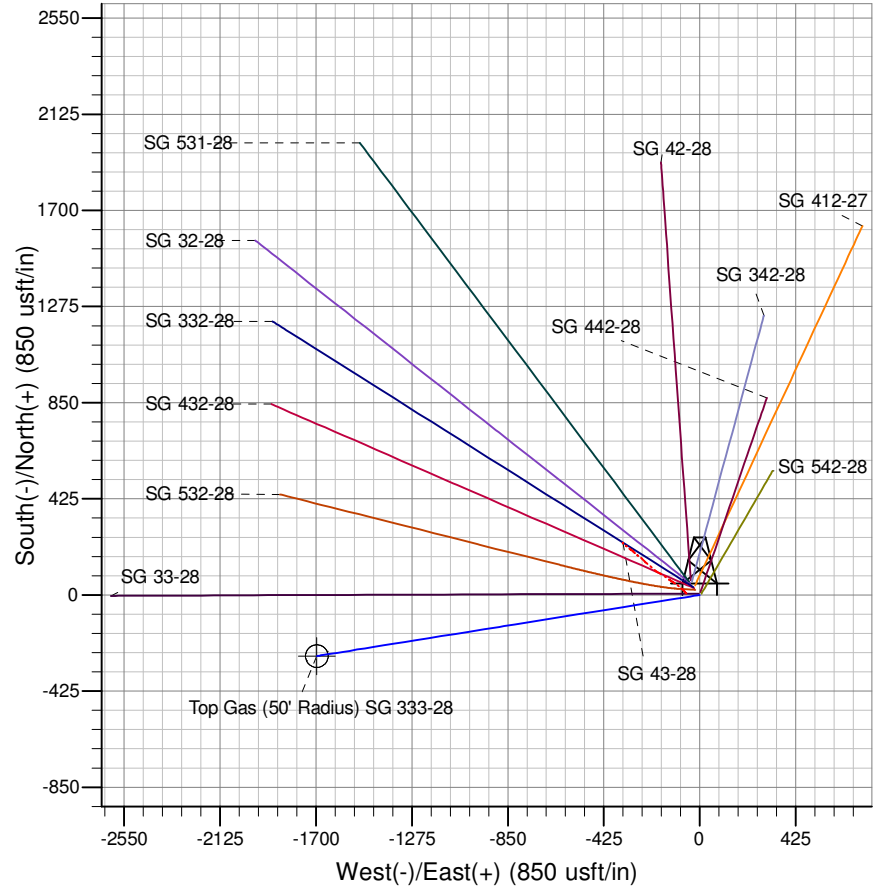




Well Name: SG 333-28
Surface Location: SG 43-28 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5119.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.20 0.17 1583830.35000 2263475.81000 39.40736 -108.10701 A1
KELLY BUSHING @ 5145.00usft (Nabors 573 (26' RKB) kjs)



ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
120.00	120.00	0.00	0.00	0.20	0.17	0.00	0.00	Start Build 3.50	
1277.05	1405.01	44.98	260.94	-75.23	-472.83	478.98	478.98	Hold 44.98° Inc, 260.94° Az	
1676.84	1970.16	44.98	260.94	-138.13	-867.29	878.42	878.42	Begin Drop -2.00°/100	
3452.00	3968.93	5.00	260.94	-268.41	-1684.27	1705.73	1705.73	Top Gas	
3701.68	4218.93	0.00	0.00	-270.12	-1695.04	1716.63	1716.63	Vertical	
5045.00	5562.24	0.00	0.00	-270.12	-1695.04	1716.63	1716.63	TD at 5562.24	



Project: SG 28-07S-096W
Site: SG 43-28 Pad
Well: SG 333-28
Design #3 16Apr14 mab

PICEANCE VLY NAD 83

SG 28-07S-096W

SG 43-28 Pad

SG 333-28 - Slot A1

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 333-28 - Slot A1
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 333-28	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 333-28 - Slot A1		
Well Position	+N/-S	0.20 usft	Northing: 1,583,830.35000 usft
	+E/-W	0.17 usft	Easting: 2,263,475.81000 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 39.40736
			Longitude: -108.10701
			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	0.20	0.17	260.94

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	0.20	0.17	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.20	0.17	0.00	0.00	0.00	0.00	
1,405.01	44.98	260.94	1,277.05	-75.23	-472.83	3.50	3.50	0.00	260.94	
1,970.16	44.98	260.94	1,676.84	-138.13	-867.29	0.00	0.00	0.00	0.00	
3,968.93	5.00	260.94	3,452.00	-268.41	-1,684.27	2.00	-2.00	0.00	180.00	Top Gas (50' Radius)
4,218.93	0.00	0.00	3,701.68	-270.12	-1,695.04	2.00	-2.00	0.00	180.00	
5,569.24	0.00	0.00	5,052.00	-270.12	-1,695.04	0.00	0.00	0.00	0.00	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 333-28 - Slot A1
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 333-28	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	0.20	0.17	1,583,830.35000	2,263,475.81000	39.40736	-108.10701
120.00	0.00	0.00	120.00	0.20	0.17	1,583,830.35000	2,263,475.81000	39.40736	-108.10701
Start Build 3.50									
200.00	2.80	260.94	199.97	-0.11	-1.76	1,583,830.09776	2,263,473.87206	39.40736	-108.10702
400.00	9.80	260.94	398.64	-3.57	-23.42	1,583,827.26698	2,263,452.12339	39.40735	-108.10709
600.00	16.80	260.94	593.15	-10.81	-68.82	1,583,821.33247	2,263,406.52894	39.40733	-108.10725
702.20	20.38	260.94	690.00	-15.94	-100.99	1,583,817.12869	2,263,374.23165	39.40732	-108.10737
Top of "G" Sand									
800.00	23.80	260.94	780.61	-21.73	-137.30	1,583,812.38269	2,263,337.76840	39.40730	-108.10750
810.27	24.16	260.94	790.00	-22.38	-141.43	1,583,811.84377	2,263,333.62798	39.40730	-108.10751
Base of "G" Sand									
1,000.00	30.80	260.94	958.23	-36.16	-227.83	1,583,800.55106	2,263,246.86687	39.40726	-108.10782
1,200.00	37.80	260.94	1,123.34	-53.90	-339.06	1,583,786.01397	2,263,135.17944	39.40721	-108.10821
1,400.00	44.80	260.94	1,273.50	-74.67	-469.33	1,583,768.98813	2,263,004.37113	39.40716	-108.10867
1,405.01	44.98	260.94	1,277.05	-75.23	-472.83	1,583,768.53170	2,263,000.86446	39.40716	-108.10868
Hold 44.98° Inc, 260.94° Az									
1,455.01	44.98	260.94	1,312.42	-80.79	-507.72	1,583,763.97068	2,262,965.82242	39.40714	-108.10881
9 5/8"									
1,600.00	44.98	260.94	1,414.99	-96.93	-608.92	1,583,750.74433	2,262,864.20532	39.40710	-108.10917
1,800.00	44.98	260.94	1,556.47	-119.19	-748.52	1,583,732.49983	2,262,724.03412	39.40703	-108.10966
1,970.16	44.98	260.94	1,676.84	-138.13	-867.29	1,583,716.97780	2,262,604.77951	39.40698	-108.11008
Begin Drop -2.00°/100									
2,000.00	44.38	260.94	1,698.06	-141.43	-888.01	1,583,714.26957	2,262,583.97234	39.40697	-108.11015
2,200.00	40.38	260.94	1,845.77	-162.66	-1,021.11	1,583,696.87468	2,262,450.32868	39.40692	-108.11062
2,400.00	36.38	260.94	2,002.53	-182.21	-1,143.70	1,583,680.85202	2,262,327.22770	39.40686	-108.11106
2,515.65	34.07	260.94	2,097.00	-192.71	-1,209.57	1,583,672.24388	2,262,261.09203	39.40683	-108.11129
Mesaverde									
2,600.00	32.38	260.94	2,167.56	-199.99	-1,255.20	1,583,666.27964	2,262,215.26916	39.40681	-108.11145
2,800.00	28.38	260.94	2,340.07	-215.91	-1,355.06	1,583,653.22854	2,262,114.99850	39.40677	-108.11181
3,000.00	24.38	260.94	2,519.20	-229.90	-1,442.80	1,583,641.76230	2,262,026.90425	39.40673	-108.11212
3,200.00	20.38	260.94	2,704.11	-241.89	-1,517.97	1,583,631.93679	2,261,951.41556	39.40670	-108.11238
3,400.00	16.38	260.94	2,893.87	-251.82	-1,580.23	1,583,623.79988	2,261,888.90023	39.40667	-108.11260
3,600.00	12.38	260.94	3,087.56	-259.63	-1,629.27	1,583,617.39120	2,261,839.66282	39.40665	-108.11278
3,800.00	8.38	260.94	3,284.25	-265.31	-1,664.84	1,583,612.74198	2,261,803.94321	39.40663	-108.11290
3,968.93	5.00	260.94	3,452.00	-268.41	-1,684.27	1,583,610.20275	2,261,784.43445	39.40663	-108.11297
Top Gas - Approx. Top Gas									
4,000.00	4.38	260.94	3,482.97	-268.81	-1,686.78	1,583,609.87487	2,261,781.91542	39.40662	-108.11298
4,200.00	0.38	260.94	3,682.76	-270.11	-1,694.98	1,583,608.80384	2,261,773.68677	39.40662	-108.11301
4,218.93	0.00	0.00	3,701.68	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
Vertical									
4,400.00	0.00	0.00	3,882.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
4,600.00	0.00	0.00	4,082.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
4,800.00	0.00	0.00	4,282.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
5,000.00	0.00	0.00	4,482.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
5,008.24	0.00	0.00	4,491.00	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
Cameo Coals									
5,200.00	0.00	0.00	4,682.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
5,400.00	0.00	0.00	4,882.76	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
5,469.24	0.00	0.00	4,952.00	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
Rollins SS									

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 333-28 - Slot A1
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 333-28	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
5,562.24	0.00	0.00	5,045.00	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
TD at 5562.24									
5,569.24	0.00	0.00	5,052.00	-270.12	-1,695.04	1,583,608.79578	2,261,773.62478	39.40662	-108.11301
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) SC - plan misses target center by 11.72usft at 3969.89usft MD (3452.96 TVD, -268.42 N, -1684.35 E) - Circle (radius 50.00)	0.00	0.00	3,452.00	-270.50	-1,695.85	1,583,608.44000	2,261,772.80000	39.40662	-108.11301

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,455.01	1,312.42	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
702.20	690.00	Top of "G" Sand				
810.27	790.00	Base of "G" Sand				
2,515.65	2,097.00	Mesaverde				
3,968.93	3,452.00	Approx. Top Gas				
5,008.24	4,491.00	Cameo Coals				
5,469.24	4,952.00	Rollins SS				
5,569.24	5,052.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.20	0.17	Start Build 3.50	
1,405.01	1,277.05	-75.23	-472.83	Hold 44.98° Inc, 260.94° Az	
1,970.16	1,676.84	-138.13	-867.29	Begin Drop -2.00°/100	
3,968.93	3,452.00	-268.41	-1,684.27	Top Gas	
4,218.93	3,701.68	-270.12	-1,695.04	Vertical	
5,562.24	5,045.00	-270.12	-1,695.04	TD at 5562.24	