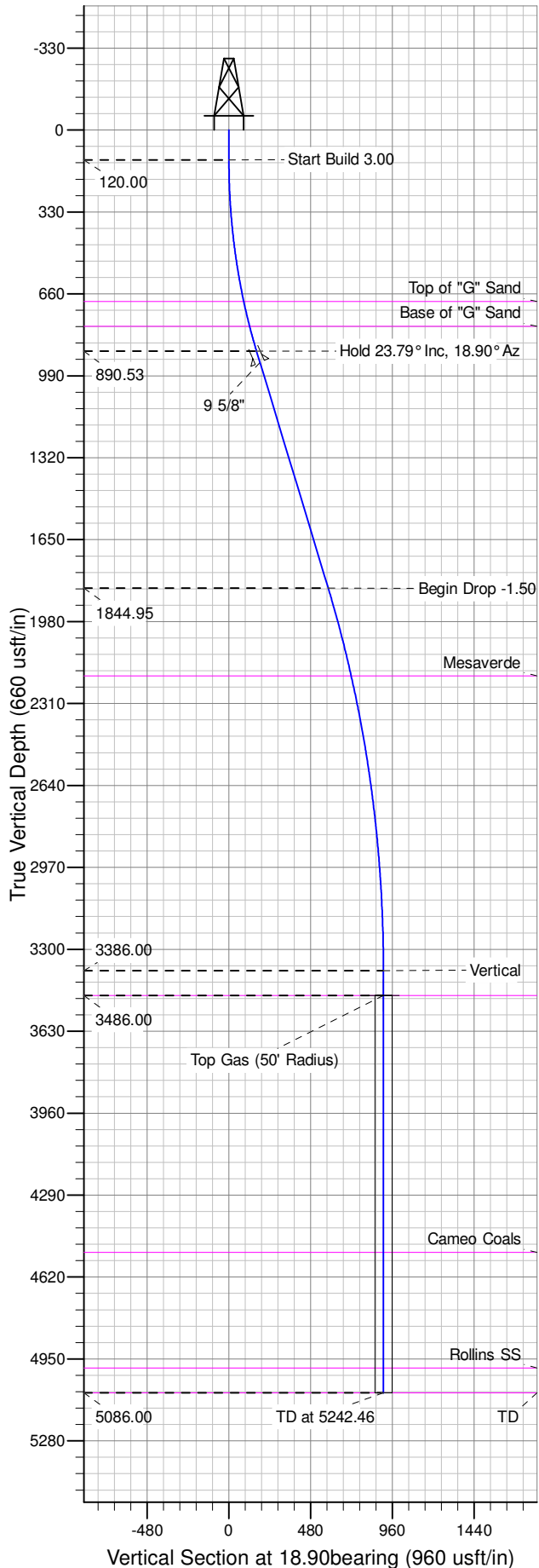
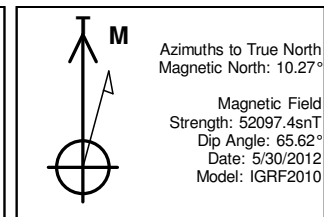
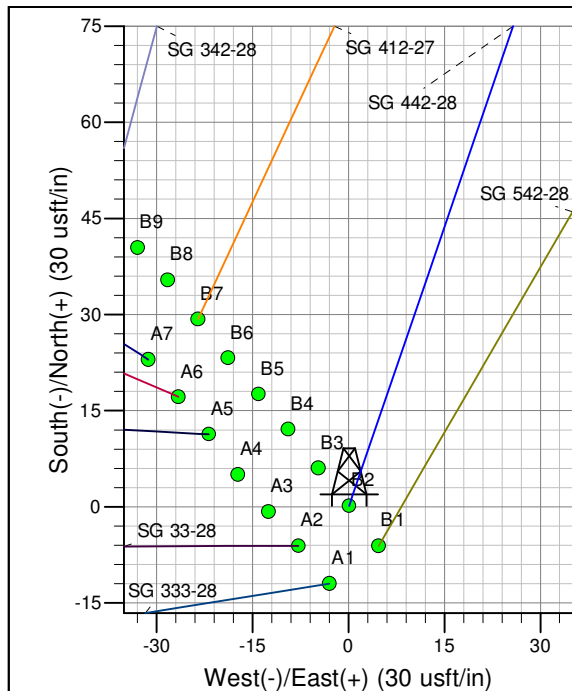
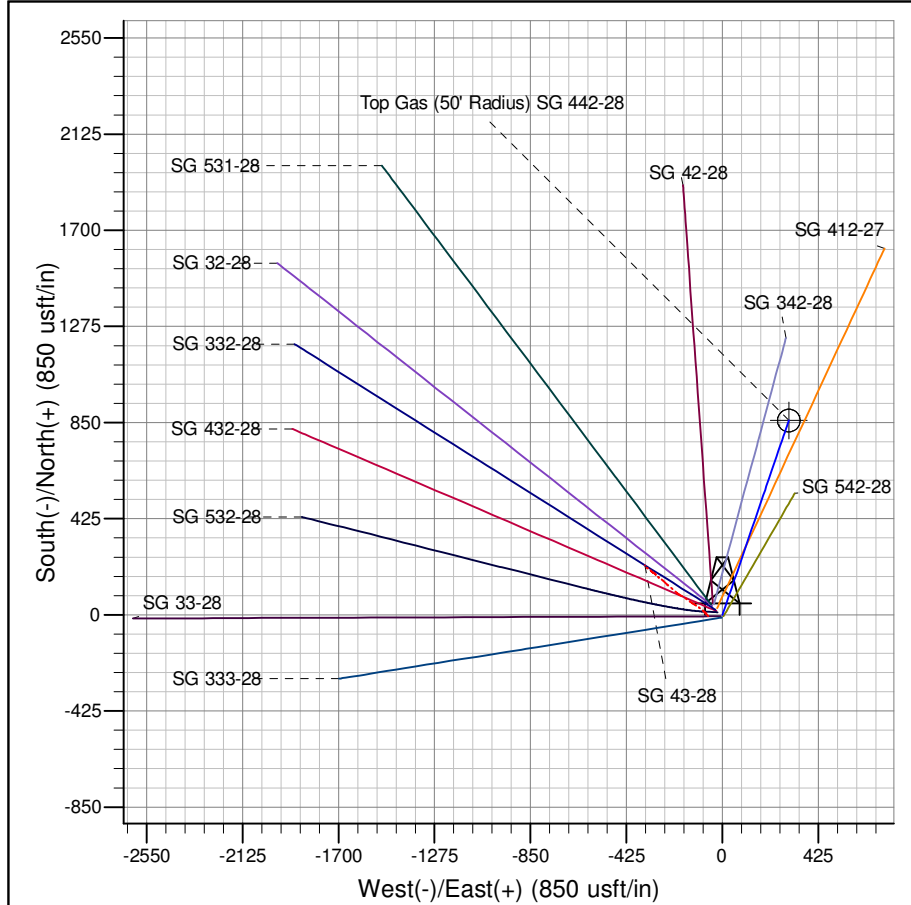




Well Name: SG 442-28  
Surface Location: SG 43-28 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 5119.00  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.16 0.09 1583842.37000 2263479.20000 39.40739 -108.10700 B2  
KELLY BUSHING @ 5145.00usft (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	0.16	0.09	0.00	0.00	Start Build 3.00	
890.53	913.13	23.79	18.90	153.74	52.67	162.33	162.33	Hold 23.79° Inc, 18.90° Az	
1844.95	1956.21	23.79	18.90	551.89	188.97	583.16	583.16	Begin Drop -1.50	
3386.00	3542.46	0.00	0.00	859.05	294.13	907.82	907.82	Vertical	
3486.00	3642.46	0.00	0.00	859.05	294.13	907.82	907.82	Top Gas	
5086.00	5242.46	0.00	0.00	859.05	294.13	907.82	907.82	TD at 5242.46	



Project: SG 28-07S-096W  
Site: SG 43-28 Pad  
Well: SG 442-28  
Design #3 16Apr14 mab

# **PICEANCE VLY NAD 83**

**SG 28-07S-096W**

**SG 43-28 Pad**

**SG 442-28 - Slot B2**

**Wellbore #1**

**Plan: Design #3 16Apr14 mab**

## **Standard Planning Report - Geographic**

**23 May, 2014**

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well SG 442-28 - Slot B2
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Project:</b>	SG 28-07S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Site:</b>	SG 43-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SG 442-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #3 16Apr14 mab		

<b>Project</b>	SG 28-07S-096W, Garfield County, CO, 28-07S-096W		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Central Zone		Using geodetic scale factor

<b>Site</b>	SG 43-28 Pad		
<b>Site Position:</b>		<b>Northing:</b>	1,583,837.93900 usft
<b>From:</b>	Map	<b>Easting:</b>	2,263,416.17600 usft
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in
		<b>Latitude:</b>	39.40738
		<b>Longitude:</b>	-108.10722
		<b>Grid Convergence:</b>	-1.64 °

<b>Well</b>	SG 442-28 - Slot B2		
<b>Well Position</b>	<b>+N/-S</b>	0.16 usft	<b>Northing:</b> 1,583,842.37000 usft
	<b>+E/-W</b>	0.09 usft	<b>Easting:</b> 2,263,479.20000 usft
<b>Position Uncertainty</b>	0.00 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 39.40740
			<b>Longitude:</b> -108.10700
			<b>Ground Level:</b> 5,119.00 usft

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

<b>Design</b>	Design #3 16Apr14 mab				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (bearing)</b>	
	0.00	0.16	0.09	18.90	

<b>Plan Sections</b>										
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	0.16	0.09	0.00	0.00	0.00	0.00	
120.00	0.00	0.00	120.00	0.16	0.09	0.00	0.00	0.00	0.00	
913.13	23.79	18.90	890.53	153.75	52.67	3.00	3.00	0.00	18.90	
1,956.21	23.79	18.90	1,844.95	551.89	188.97	0.00	0.00	0.00	0.00	
3,542.46	0.00	0.00	3,386.00	859.05	294.13	1.50	-1.50	0.00	180.00	
3,642.46	0.00	0.00	3,486.00	859.05	294.13	0.00	0.00	0.00	0.00	Top Gas (50' Radius)
5,242.46	0.00	0.00	5,086.00	859.05	294.13	0.00	0.00	0.00	0.00	

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well SG 442-28 - Slot B2
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Project:</b>	SG 28-07S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Site:</b>	SG 43-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SG 442-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	0.16	0.09	1,583,842.37000	2,263,479.20000	39.40740	-108.10700	
120.00	0.00	0.00	120.00	0.16	0.09	1,583,842.37000	2,263,479.20000	39.40740	-108.10700	
Start Build 3.00										
200.00	2.40	18.90	199.98	1.75	0.63	1,583,843.93866	2,263,479.78784	39.40740	-108.10700	
400.00	8.40	18.90	399.00	19.55	6.72	1,583,861.55449	2,263,486.38925	39.40745	-108.10698	
600.00	14.40	18.90	594.96	56.93	19.52	1,583,898.55334	2,263,500.25429	39.40755	-108.10693	
698.82	17.36	18.90	690.00	82.51	28.28	1,583,923.87289	2,263,509.74261	39.40762	-108.10690	
Top of "G" Sand										
800.00	20.40	18.90	785.72	113.49	38.89	1,583,954.52982	2,263,521.23107	39.40771	-108.10686	
804.56	20.54	18.90	790.00	115.00	39.40	1,583,956.02445	2,263,521.79117	39.40771	-108.10686	
Base of "G" Sand										
913.13	23.79	18.90	890.53	153.75	52.67	1,583,994.37106	2,263,536.16129	39.40782	-108.10681	
Hold 23.79° Inc, 18.90° Az										
963.13	23.79	18.90	936.28	172.83	59.20	1,584,013.26101	2,263,543.24015	39.40787	-108.10679	
9 5/8"										
1,000.00	23.79	18.90	970.02	186.90	64.02	1,584,027.18944	2,263,548.45973	39.40791	-108.10677	
1,200.00	23.79	18.90	1,153.02	263.24	90.15	1,584,102.74375	2,263,576.77316	39.40812	-108.10668	
1,400.00	23.79	18.90	1,336.02	339.58	116.29	1,584,178.29806	2,263,605.08658	39.40833	-108.10659	
1,600.00	23.79	18.90	1,519.02	415.92	142.43	1,584,253.85237	2,263,633.40000	39.40854	-108.10650	
1,800.00	23.79	18.90	1,702.02	492.26	168.56	1,584,329.40668	2,263,661.71342	39.40875	-108.10640	
1,956.21	23.79	18.90	1,844.95	551.89	188.97	1,584,388.41786	2,263,683.82743	39.40891	-108.10633	
Begin Drop -1.50										
2,000.00	23.14	18.90	1,885.12	568.38	194.62	1,584,404.74555	2,263,689.94611	39.40896	-108.10631	
2,200.00	20.14	18.90	2,071.01	638.15	218.50	1,584,473.78940	2,263,715.81978	39.40915	-108.10623	
2,335.48	18.10	18.90	2,199.00	680.13	232.88	1,584,515.33978	2,263,731.39048	39.40926	-108.10618	
Mesaverde										
2,400.00	17.14	18.90	2,260.50	698.61	239.20	1,584,533.62919	2,263,738.24430	39.40931	-108.10615	
2,600.00	14.14	18.90	2,453.07	749.60	256.66	1,584,584.10089	2,263,757.15821	39.40945	-108.10609	
2,800.00	11.14	18.90	2,648.21	790.99	270.83	1,584,625.06617	2,263,772.50964	39.40957	-108.10604	
3,000.00	8.14	18.90	2,845.36	822.67	281.68	1,584,656.41275	2,263,784.25654	39.40965	-108.10600	
3,200.00	5.14	18.90	3,044.00	844.53	289.16	1,584,678.05470	2,263,792.36671	39.40971	-108.10598	
3,400.00	2.14	18.90	3,243.57	856.53	293.27	1,584,689.93271	2,263,796.81790	39.40975	-108.10596	
3,542.46	0.00	0.00	3,386.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
Vertical										
3,600.00	0.00	0.00	3,443.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
3,642.46	0.00	0.00	3,486.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
Top Gas - Approx. Top Gas										
3,800.00	0.00	0.00	3,643.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
4,000.00	0.00	0.00	3,843.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
4,200.00	0.00	0.00	4,043.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
4,400.00	0.00	0.00	4,243.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
4,600.00	0.00	0.00	4,443.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
4,676.46	0.00	0.00	4,520.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
Cameo Coals										
4,800.00	0.00	0.00	4,643.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
5,000.00	0.00	0.00	4,843.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
5,142.46	0.00	0.00	4,986.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
Rollins SS										
5,200.00	0.00	0.00	5,043.54	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
5,242.46	0.00	0.00	5,086.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596	
TD at 5242.46										

**WPX**  
Planning Report - Geographic

<b>Database:</b>	COMPASS-PICEANCE	<b>Local Co-ordinate Reference:</b>	Well SG 442-28 - Slot B2
<b>Company:</b>	PICEANCE VLY NAD 83	<b>TVD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Project:</b>	SG 28-07S-096W	<b>MD Reference:</b>	KELLY BUSHING @ 5145.00usft (Nabors 573( 26' RKB) kjs)
<b>Site:</b>	SG 43-28 Pad	<b>North Reference:</b>	True
<b>Well:</b>	SG 442-28	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	3,486.00	859.05	294.13	1,584,692.42000	2,263,797.75000	39.40975	-108.10596

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
963.13	936.28	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
698.82	690.00	Top of "G" Sand				
804.56	790.00	Base of "G" Sand				
2,335.48	2,199.00	Mesaverde				
3,642.46	3,486.00	Approx. Top Gas				
4,676.46	4,520.00	Cameo Coals				
5,142.46	4,986.00	Rollins SS				
5,242.46	5,086.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.00	120.00	0.16	0.09	Start Build 3.00	
913.13	890.53	153.75	52.67	Hold 23.79° Inc, 18.90° Az	
1,956.21	1,844.95	551.89	188.97	Begin Drop -1.50	
3,542.46	3,386.00	859.05	294.13	Vertical	
3,642.46	3,486.00	859.05	294.13	Top Gas	
5,242.46	5,086.00	859.05	294.13	TD at 5242.46	