



+N/-S
0.00

+E/-W
0.00

Northing
1587479.04

Easting
2265488.37

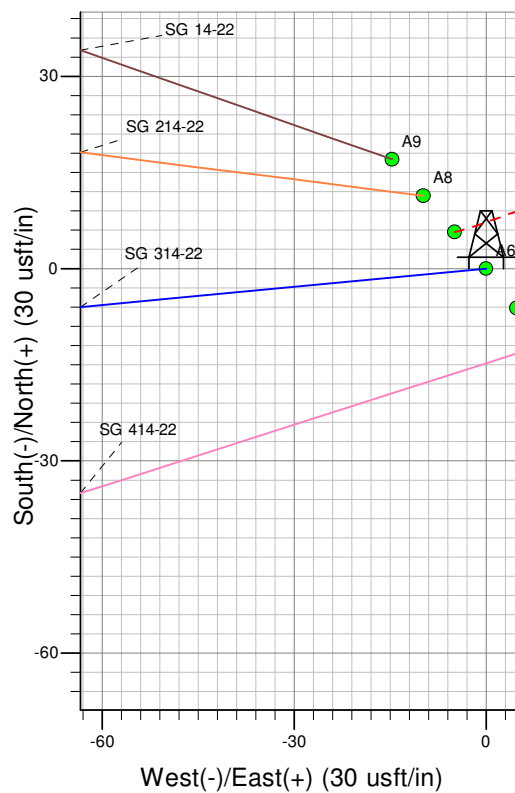
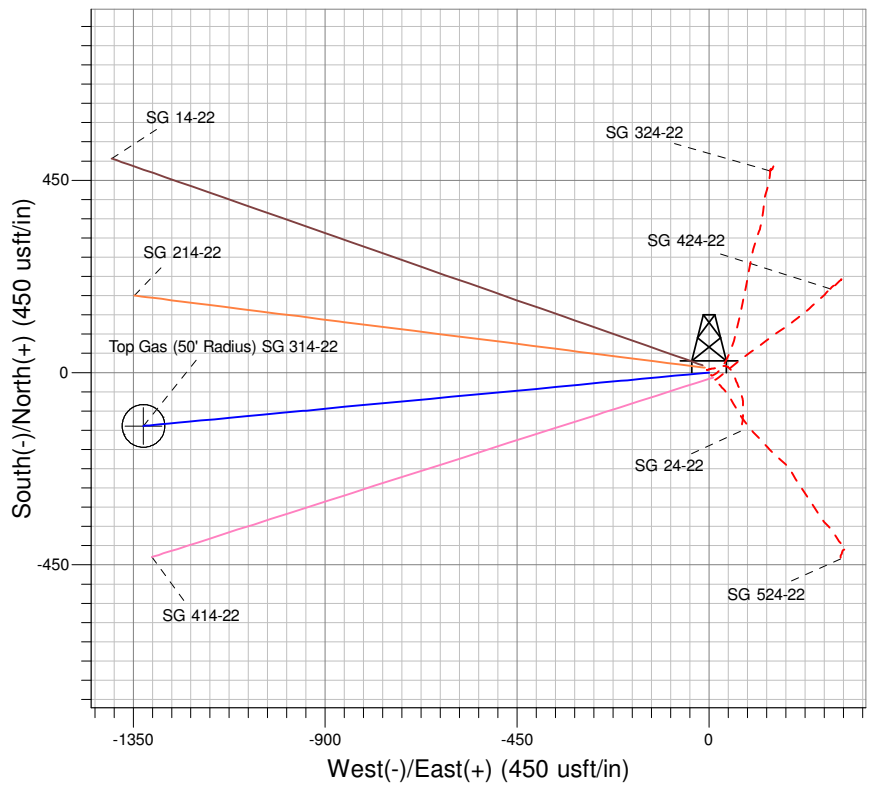
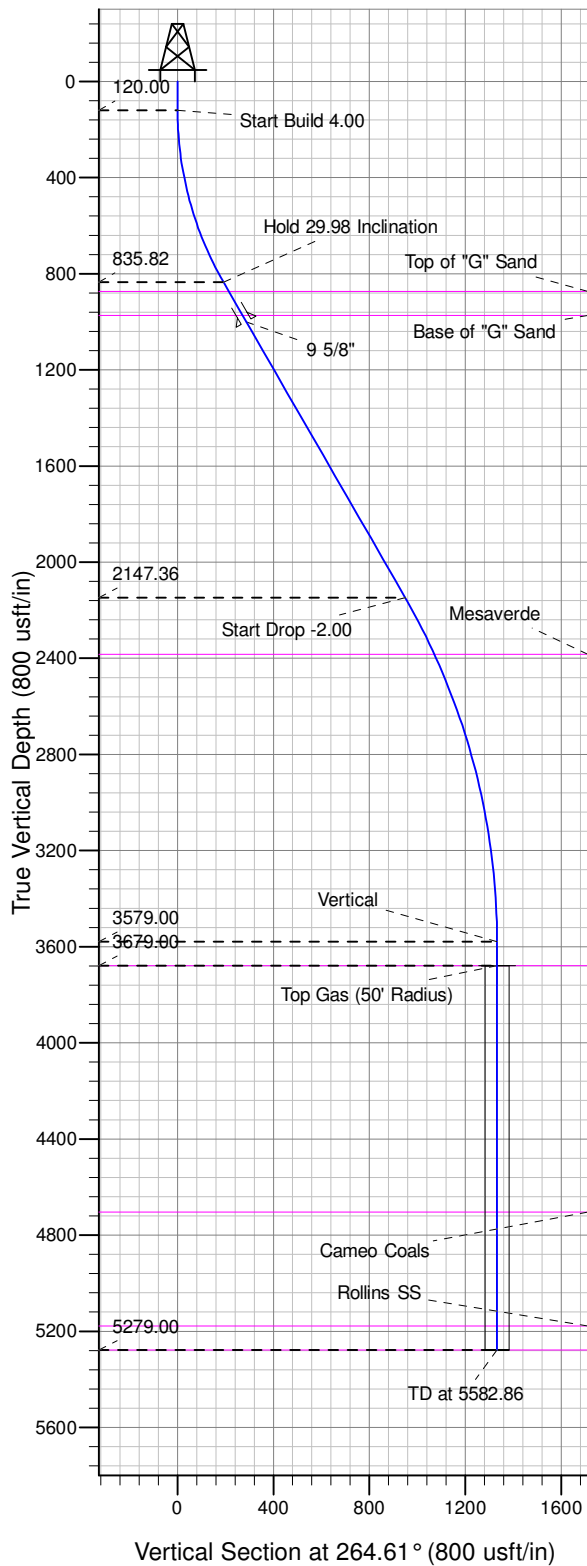
Latitude
39.41753

Longitude
-108.10026

Slot
A6

Well Name: SG 314-22
Surface Location: SG 24-22 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5248.00

KELLY BUSHING @ 5272.00usft (H&P 318 (24' RKB) kjs)



Project: SG 22-07S-096W
Site: SG 24-22 Pad
Well: SG 314-22
Design #3 13Feb14 kjs

Azimuths to True North
Magnetic North: 10.65°

Magnetic Field
Strength: 52445.9snT
Dip Angle: 65.72°
Date: 4/6/2009
Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	V Sect	Departure	Annotation
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 4.00
835.82	869.56	29.98	264.61	-18.00	-190.84	191.69	191.69	Hold 29.98 Inclination
2147.36	2383.74	29.98	264.61	-89.07	-944.18	948.37	948.37	Start Drop -2.00
3579.00	3882.86	0.00	0.00	-125.08	-1325.86	1331.74	1331.74	Vertical
3679.00	3982.86	0.00	0.00	-125.08	-1325.86	1331.74	1331.74	Top Gas
5279.00	5582.86	0.00	0.00	-125.08	-1325.86	1331.74	1331.74	TD at 5582.86

PICEANCE VLY NAD 83

SG 22-07S-096W

SG 24-22 Pad

SG 314-22 - Slot A6

Wellbore #1

Plan: Design #3 13Feb14 kjs

Standard Planning Report - Geographic

14 February, 2014

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 314-22 - Slot A6
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5272.00usft (H&P 318 (24' RKB) kjs)
Project:	SG 22-07S-096W	MD Reference:	KELLY BUSHING @ 5272.00usft (H&P 318 (24' RKB) kjs)
Site:	SG 24-22 Pad	North Reference:	True
Well:	SG 314-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 13Feb14 kjs		

Project	SG 22-07S-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 24-22 Pad				
Site Position:		Northing:	1,587,484.87 usft	Latitude:	39.41755
From:	Map	Easting:	2,265,483.64 usft	Longitude:	-108.10028
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.640 °

Well	SG 314-22 - Slot A6					
Well Position	+N/-S	0.00 usft	Northing:	1,587,479.04 usft	Latitude:	39.41753
	+E/-W	0.00 usft	Easting:	2,265,488.37 usft	Longitude:	-108.10026
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,248.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	4/6/2009	10.651	65.724	52,446

Design	Design #3 13Feb14 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	264.61

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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	0.00	0.00	0.00	0.00	0.00	0.000	
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	0.00	0.000	
869.56	29.98	264.61	835.82	-18.00	-190.84	4.00	4.00	0.00	264.611	
2,383.74	29.98	264.61	2,147.36	-89.07	-944.18	0.00	0.00	0.00	0.000	
3,882.86	0.00	0.00	3,579.00	-125.08	-1,325.86	2.00	-2.00	0.00	180.000	
3,982.86	0.00	0.00	3,679.00	-125.08	-1,325.86	0.00	0.00	0.00	0.000	Top Gas (50' Radius)
5,582.86	0.00	0.00	5,279.00	-125.08	-1,325.86	0.00	0.00	0.00	0.000	

WPX
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well SG 314-22 - Slot A6
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5272.00usft (H&P 318 (24' RKB) kjs)
Project:	SG 22-07S-096W	MD Reference:	KELLY BUSHING @ 5272.00usft (H&P 318 (24' RKB) kjs)
Site:	SG 24-22 Pad	North Reference:	True
Well:	SG 314-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 13Feb14 kjs		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	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	0.00	0.00	1,587,479.04	2,265,488.37	39.41753	-108.10026	
120.00	0.00	0.00	120.00	0.00	0.00	1,587,479.04	2,265,488.37	39.41753	-108.10026	
Start Build 4.00										
869.56	29.98	264.61	835.82	-18.00	-190.84	1,587,466.50	2,265,297.11	39.41748	-108.10094	
Hold 29.98 Inclination										
913.64	29.98	264.61	874.00	-20.07	-212.77	1,587,465.06	2,265,275.13	39.41748	-108.10101	
Top of "G" Sand										
1,029.09	29.98	264.61	974.00	-25.49	-270.21	1,587,461.29	2,265,217.56	39.41746	-108.10122	
Base of "G" Sand										
1,059.11	29.98	264.61	1,000.00	-26.90	-285.14	1,587,460.31	2,265,202.59	39.41746	-108.10127	
9 5/8"										
2,383.74	29.98	264.61	2,147.36	-89.07	-944.18	1,587,417.02	2,264,542.08	39.41729	-108.10360	
Start Drop -2.00										
2,650.17	24.65	264.61	2,384.00	-100.55	-1,065.87	1,587,409.03	2,264,420.11	39.41726	-108.10403	
Mesaverde										
3,882.86	0.00	0.00	3,579.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	
Vertical										
3,982.86	0.00	0.00	3,679.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	
Top Gas - Approx. Top Gas										
5,007.86	0.00	0.00	4,704.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	
Cameo Coals										
5,482.86	0.00	0.00	5,179.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	
Rollins SS										
5,582.86	0.00	0.00	5,279.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	
TD at 5582.86 - TD										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	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	3,679.00	-125.08	-1,325.86	1,587,391.96	2,264,159.54	39.41719	-108.10495	

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)		
1,059.11	1,000.00	9 5/8"	9.625	13.500		

WPX
Planning Report - Geographic

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Site:	SG 24-22 Pad	North Reference:	True
Well:	SG 314-22	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3 13Feb14 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
913.64	874.00	Top of "G" Sand				
1,029.09	974.00	Base of "G" Sand				
2,650.17	2,384.00	Mesaverde				
3,982.86	3,679.00	Approx. Top Gas				
5,007.86	4,704.00	Cameo Coals				
5,482.86	5,179.00	Rollins SS				
5,582.86	5,279.00	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
120.00	120.00	0.00	0.00	Start Build 4.00	
869.56	835.82	-18.00	-190.84	Hold 29.98 Inclination	
2,383.74	2,147.36	-89.07	-944.18	Start Drop -2.00	
3,882.86	3,579.00	-125.08	-1,325.86	Vertical	
3,982.86	3,679.00	-125.08	-1,325.86	Top Gas	
5,582.86	5,279.00	-125.08	-1,325.86	TD at 5582.86	