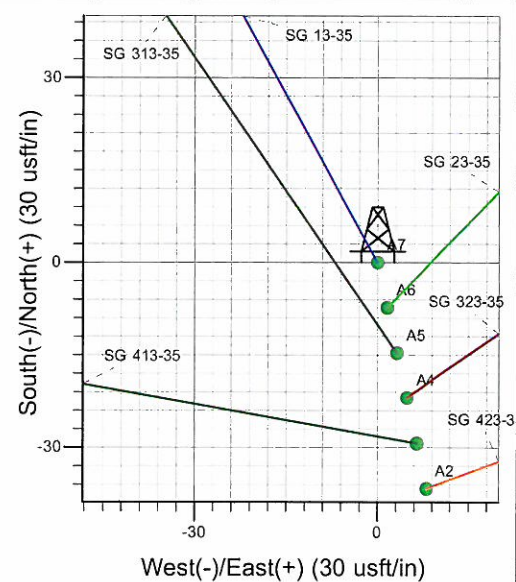
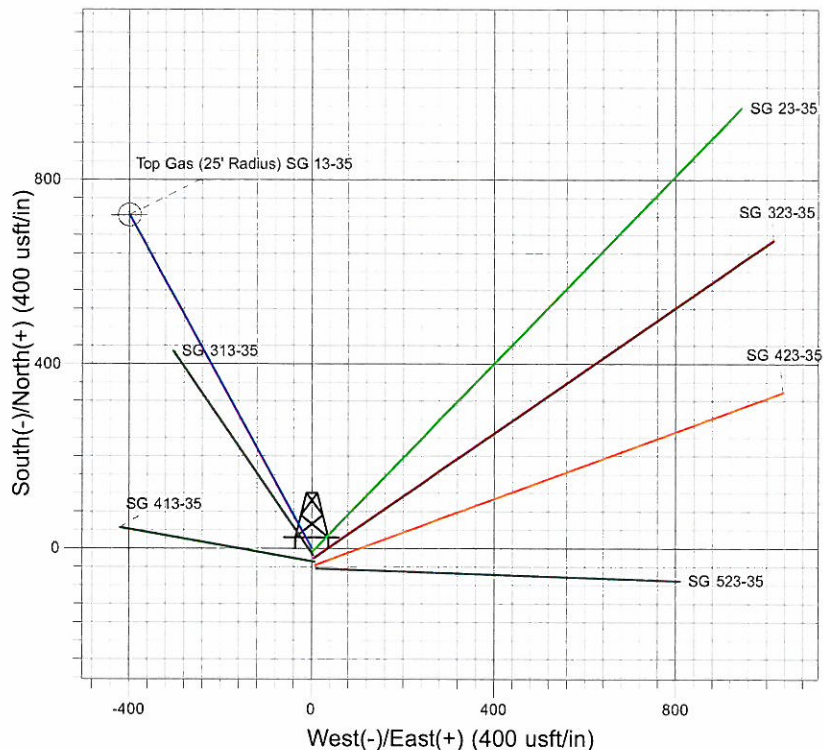
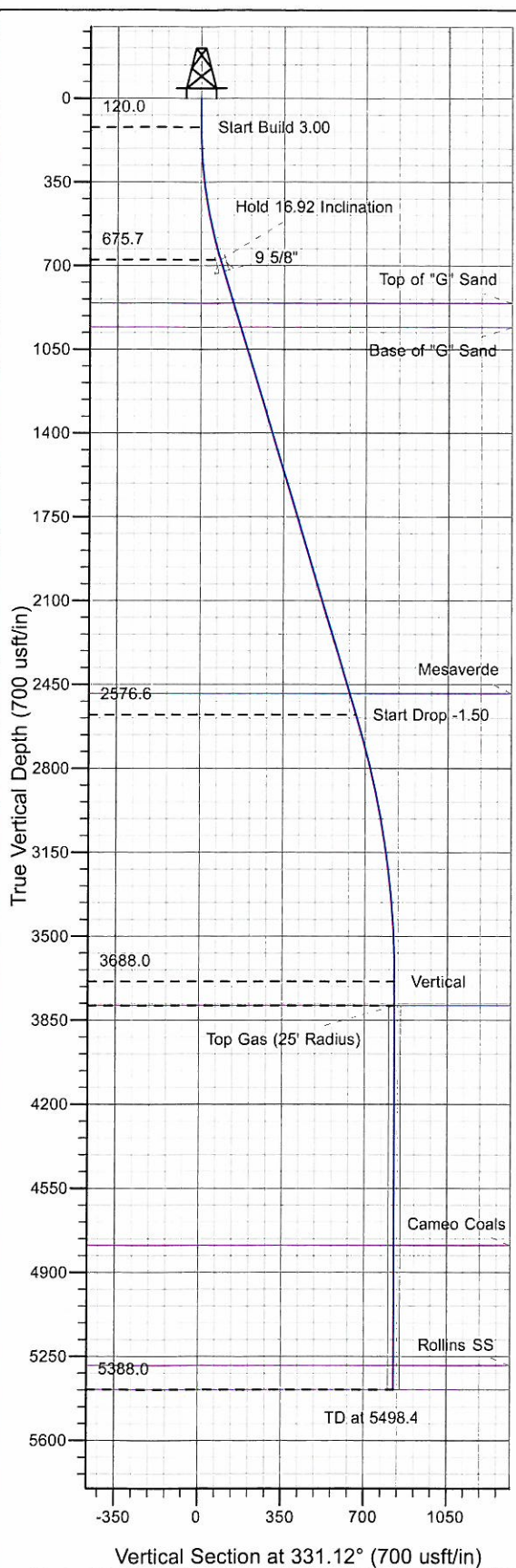




Well Name: SG 13-35
 Surface Location: SG 13-35 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5379.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1577666.10 2269998.80 39° 23' 27.442 N 108° 4' 59.920 W A7
 KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)



Project: SG 35-07S-096W
 Site: SG 13-35 Pad
 Well: SG 13-35
 Plan #2 16Jun10 kjs

Azimuths to True North
 Magnetic North: 11.07°
 Magnetic Field
 Strength: 52756.9nT
 Dip Angle: 65.79°
 Date: 12/6/2005
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00
675.7	683.9	16.92	331.12	72.4	-39.9	82.6	82.6	Hold 16.92 Inclination
2576.6	2670.7	16.92	331.12	578.6	-319.1	660.7	660.7	Start Drop -1.50
3688.0	3798.4	0.00	0.00	723.3	-398.9	826.0	826.0	Vertical
3788.0	3898.4	0.00	0.00	723.3	-398.9	826.0	826.0	Top Gas
5388.0	5498.4	0.00	0.00	723.3	-398.9	826.0	826.0	TD at 5498.4

PICEANCE VLY NAD 83

SG 35-07S-096W

SG 13-35 Pad

SG 13-35 - Slot A7

SG 13-35

Plan: Plan #2 16Jun10 kjs

Standard Planning Report - Geographic

05 August, 2010

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well SG 13-35 - Slot A7
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Project:	SG 35-07S-096W	MD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Site:	SG 13-35 Pad	North Reference:	True
Well:	SG 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	SG 13-35		
Design:	Plan #2 16Jun10 kjs		

Project	SG 35-07S-096W, Garfield County, CO, 35-07S-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 13-35 Pad			
Site Position:		Northing:	1,577,604.70 usft	Latitude: 39° 23' 26.838 N
From:	Map	Easting:	2,270,010.50 usft	Longitude: 108° 4' 59.749 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence: -1.629 °

Well	SG 13-35 - Slot A7			
Well Position	+N/-S	0.0 usft	Northing:	1,577,666.10 usft
	+E/-W	0.0 usft	Easting:	2,269,998.80 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	Ground Level: 5,379.0 usft

Wellbore	SG 13-35				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/6/2005	11.073	65.788	52,757

Design	Plan #2 16Jun10 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	331.12

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.000	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.000	
683.9	16.92	331.12	675.7	72.4	-39.9	3.00	3.00	0.00	331.120	
2,670.7	16.92	331.12	2,576.6	578.6	-319.1	0.00	0.00	0.00	0.000	
3,798.4	0.00	0.00	3,688.0	723.3	-398.9	1.50	-1.50	0.00	180.000	
3,898.4	0.00	0.00	3,788.0	723.3	-398.9	0.00	0.00	0.00	0.000	Top Gas (25' Radius)
5,498.4	0.00	0.00	5,388.0	723.3	-398.9	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well SG 13-35 - Slot A7
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Project:	SG 35-07S-096W	MD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Site:	SG 13-35 Pad	North Reference:	True
Well:	SG 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	SG 13-35		
Design:	Plan #2 16Jun10 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
0.0	0.00	0.00	0.0	0.0	0.0	1,577,666.10	2,269,998.80	39° 23' 27.442 N	108° 4' 59.920 W
120.0	0.00	0.00	120.0	0.0	0.0	1,577,666.10	2,269,998.80	39° 23' 27.442 N	108° 4' 59.920 W
Start Build 3.00									
683.9	16.92	331.12	675.7	72.4	-39.9	1,577,739.56	2,269,960.97	39° 23' 28.157 N	108° 5' 0.428 W
Hold 16.92 Inclination									
734.0	16.92	331.12	723.7	85.1	-47.0	1,577,752.52	2,269,954.29	39° 23' 28.283 N	108° 5' 0.518 W
9 5/8"									
873.4	16.92	331.12	857.0	120.6	-66.5	1,577,788.57	2,269,935.72	39° 23' 28.634 N	108° 5' 0.767 W
Top of "G" Sand									
977.9	16.92	331.12	957.0	147.3	-81.2	1,577,815.60	2,269,921.80	39° 23' 28.897 N	108° 5' 0.955 W
Base of "G" Sand									
2,578.1	16.92	331.12	2,488.0	555.0	-306.1	1,578,229.53	2,269,708.61	39° 23' 32.927 N	108° 5' 3.819 W
Mesaverde									
2,670.7	16.92	331.12	2,576.6	578.6	-319.1	1,578,253.47	2,269,696.27	39° 23' 33.160 N	108° 5' 3.985 W
Start Drop -1.50									
3,798.4	0.00	0.00	3,688.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
Vertical									
3,898.4	0.00	0.00	3,788.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
Top Gas - Approx. Top Gas									
4,898.4	0.00	0.00	4,788.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
Cameo Coals									
5,398.4	0.00	0.00	5,288.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
Rollins SS									
5,498.4	0.00	0.00	5,388.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
TD at 5498.4 - TD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hi/miss target									
- Shape									
Top Gas (25' Radius) SC	0.00	0.00	3,788.0	723.3	-398.9	1,578,400.40	2,269,620.60	39° 23' 34.590 N	108° 5' 5.002 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
734.0	723.7	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well SG 13-35 - Slot A7
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Project:	SG 35-07S-096W	MD Reference:	KELLY BUSHING @ 5403.0usft (H&P (24' RKB) kjs)
Site:	SG 13-35 Pad	North Reference:	True
Well:	SG 13-35	Survey Calculation Method:	Minimum Curvature
Wellbore:	SG 13-35		
Design:	Plan #2 16Jun10 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
873.4	857.0	Top of "G" Sand				
977.9	957.0	Base of "G" Sand				
2,578.1	2,488.0	Mesaverde				
3,898.4	3,788.0	Approx. Top Gas				
4,898.4	4,788.0	Cameo Coals				
5,398.4	5,288.0	Rollins SS				
5,498.4	5,388.0	TD		0.000		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.0	120.0	0.0	0.0	Start Build 3.00	
683.9	675.7	72.4	-39.9	Hold 16.92 Inclination	
2,670.7	2,576.6	578.6	-319.1	Start Drop -1.50	
3,798.4	3,688.0	723.3	-398.9	Vertical	
3,898.4	3,788.0	723.3	-398.9	Top Gas	
5,498.4	5,388.0	723.3	-398.9	TD at 5498.4	