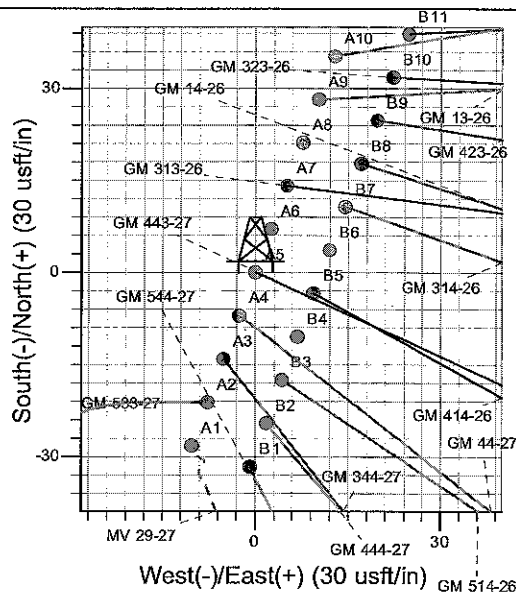
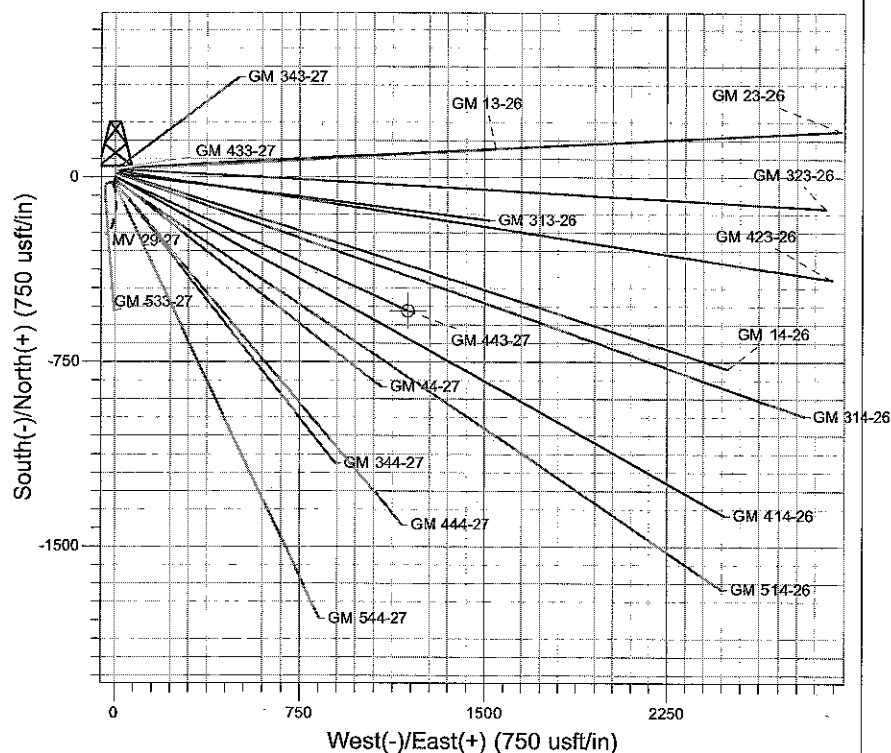
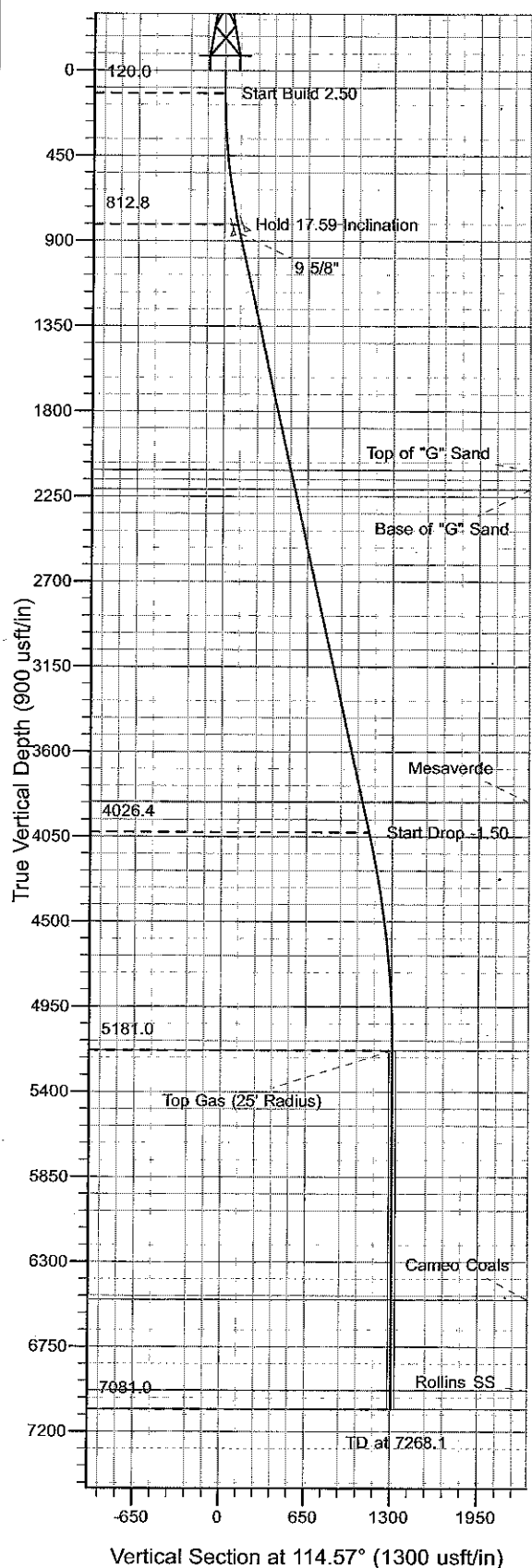




Well Name: GM 443-27
 Surface Location: MV 29-27 Pad
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 5659.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1614960.90 2269196.54 39° 29' 35.679 N 108° 5' 23.676 W A5
 KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)



Project: RU 27-06S-096W
 Site: MV 29-27 Pad
 Well: GM 443-27
 Plan #1 29Jan09 kjs

Azimuths to True North
 Magnetic North: 10.68°
 Magnetic Field
 Strength: 52503.3snT
 Dip Angle: 65.79°
 Date: 1/29/2009
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.50
812.8	823.8	17.59	114.57	-44.6	97.5	107.2	107.2	Hold 17.59 Inclination
4026.4	4195.1	17.59	114.57	-468.3	1024.3	1126.3	1126.3	Start Drop -1.50
5181.0	5368.1	0.00	0.00	-542.6	1186.8	1305.0	1305.0	Top Gas
7081.0	7268.1	0.00	0.00	-542.6	1186.8	1305.0	1305.0	TD at 7268.1

PICEANCE VLY NAD 83

RU 27-06S-096W

MV 29-27 Pad

GM 443-27 - Slot A5

Wellbore #1

Plan: Plan #1 29Jan09 kjs

Standard Planning Report - Geographic

05 May, 2010

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well GM 443-27 - Slot A5
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Project:	RU 27-06S-096W	MD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Site:	MV 29-27 Pad	North Reference:	True
Well:	GM 443-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 29Jan09 kjs		

Project	RU 27-06S-096W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	MV 29-27 Pad		
Site Position:		Northing:	1,614,933.00 usft
From:	Map	Easting:	2,269,185.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	39° 29' 35.400 N
		Longitude:	108° 5' 23.807 W
		Grid Convergence:	-1.633 °

Well	GM 443-27 - Slot A5		
Well Position	+N/-S	0.0 usft	Northing: 1,614,960.89 usft
	+E/-W	0.0 usft	Easting: 2,269,196.54 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 29' 35.679 N
			Longitude: 108° 5' 23.676 W
			Ground Level: 5,659.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2005-10	1/29/2009	10.680
			Dip Angle (°) 65.793
			Field Strength (nT) 52,503

Design	Plan #1 29Jan09 kjs		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 114.57

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	
823.8	17.59	114.57	812.8	-44.6	97.5	2.50	2.50	0.00	114.569	
4,195.1	17.59	114.57	4,026.4	-468.3	1,024.3	0.00	0.00	0.00	0.000	
5,368.1	0.00	0.00	5,181.0	-542.6	1,186.8	1.50	-1.50	0.00	180.000	Top Gas (25' Radius)
7,268.1	0.00	0.00	7,081.0	-542.6	1,186.8	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well GM 443-27 - Slot A5
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Project:	RU 27-06S-096W	MD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Site:	MV 29-27 Pad	North Reference:	True
Well:	GM 443-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 29Jan09 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	1,614,960.89	2,269,196.54	39° 29' 35.679 N	108° 5' 23.676 W
120.0	0.00	0.00	120.0	0.0	0.0	1,614,960.89	2,269,196.54	39° 29' 35.679 N	108° 5' 23.676 W
Start Build 2.50									
823.8	17.59	114.57	812.8	-44.6	97.5	1,614,913.56	2,269,292.73	39° 29' 35.238 N	108° 5' 22.433 W
Hold 17.59 Inclination									
874.0	17.59	114.57	860.6	-50.9	111.3	1,614,906.85	2,269,306.35	39° 29' 35.176 N	108° 5' 22.256 W
9 5/8"									
2,185.7	17.59	114.57	2,111.0	-215.7	471.9	1,614,731.78	2,269,662.11	39° 29' 33.547 N	108° 5' 17.657 W
Top of "G" Sand									
2,290.6	17.59	114.57	2,211.0	-228.9	500.8	1,614,717.78	2,269,690.56	39° 29' 33.416 N	108° 5' 17.289 W
Base of "G" Sand									
4,026.8	17.59	114.57	3,866.0	-447.1	978.0	1,614,486.05	2,270,161.44	39° 29' 31.259 N	108° 5' 11.200 W
Mesaverde									
4,195.1	17.59	114.57	4,026.4	-468.3	1,024.3	1,614,463.59	2,270,207.08	39° 29' 31.050 N	108° 5' 10.610 W
Start Drop -1.50									
5,368.1	0.00	0.00	5,181.0	-542.6	1,186.8	1,614,384.70	2,270,367.40	39° 29' 30.316 N	108° 5' 8.537 W
Top Gas -Approx. Top Gas									
6,688.1	0.00	0.00	6,501.0	-542.6	1,186.8	1,614,384.70	2,270,367.40	39° 29' 30.316 N	108° 5' 8.537 W
Cameo Coals									
7,168.1	0.00	0.00	6,981.0	-542.6	1,186.8	1,614,384.70	2,270,367.40	39° 29' 30.316 N	108° 5' 8.537 W
Rollins SS									
7,268.1	0.00	0.00	7,081.0	-542.6	1,186.8	1,614,384.70	2,270,367.40	39° 29' 30.316 N	108° 5' 8.537 W
TD at 7268.1									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Top Gas (25' Radius) GI	0.00	0.00	5,181.0	-542.6	1,186.8	1,614,384.70	2,270,367.40	39° 29' 30.316 N	108° 5' 8.537 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
874.0	860.6	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well GM 443-27 - Slot A5
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Project:	RU 27-06S-096W	MD Reference:	KELLY BUSHING @ 5683.0usft (H&P 271 (24'KB) JMS)
Site:	MV 29-27 Pad	North Reference:	True
Well:	GM 443-27	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 29Jan09 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,185.7	2,111.0	Top of "G" Sand				
2,290.6	2,211.0	Base of "G" Sand				
4,026.8	3,866.0	Mesaverde				
5,368.1	5,181.0	Approx. Top Gas				
6,688.1	6,501.0	Cameo Coals				
7,168.1	6,981.0	Rollins SS				
7,268.1	7,081.0	TD				

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 2.50	
823.8	812.8	-44.6	97.5	Hold 17.59 Inclination	
4,195.1	4,026.4	-468.3	1,024.3	Start Drop -1.50	
5,368.1	5,181.0	-542.6	1,186.8	Top Gas	
7,268.1	7,081.0	-542.6	1,186.8	TD at 7268.1	