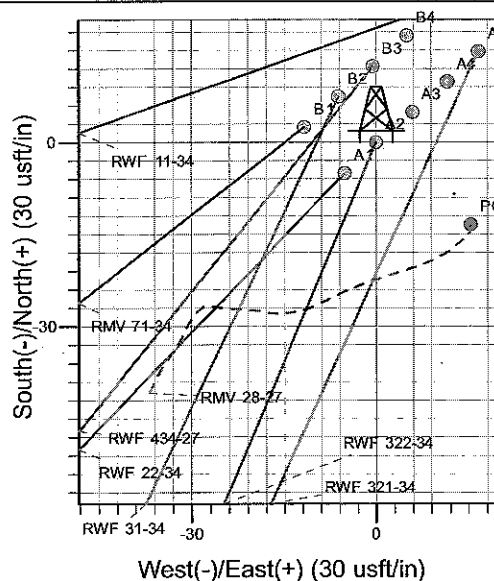
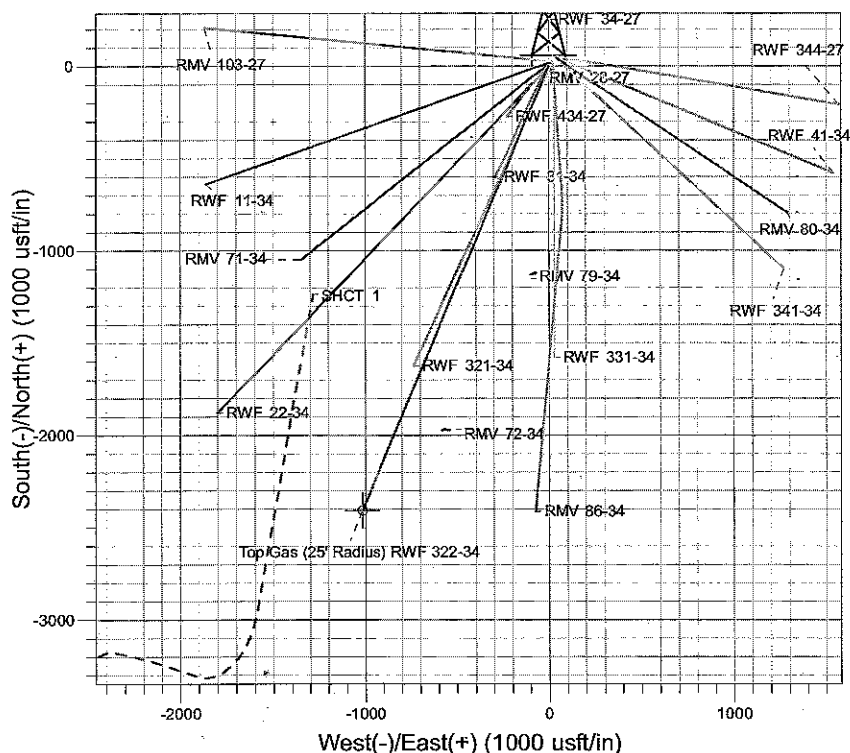
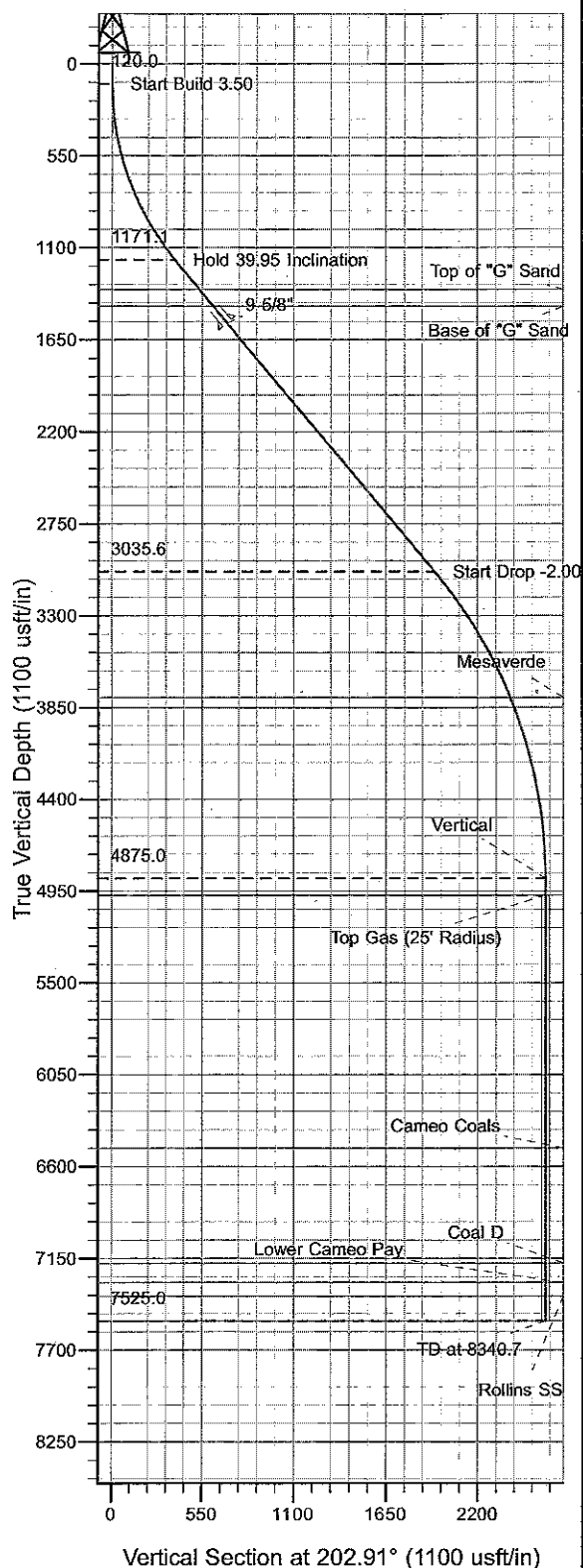




Well Name: RWF 322-34
 Surface Location: RMV 28-27 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5297.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1612157.00 2330490.00 39° 29' 24.520 N 107° 52' 21.125 W A2
 KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)



Project: RU 27-06S-094W
 Site: RMV 28-27 Pad
 Well: RWF 322-34
 Plan #2 20Apr10 kjs

Azimuths to True North
 Magnetic North: 10.42°
 Magnetic Field
 Strength: 52414.0snT
 Dip Angle: 65.80°
 Date: 4/20/2010
 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 3.50
1171.1	1261.3	39.95	202.91	-351.9	-148.7	382.0	382.0	Hold 39.95 Inclination
3035.6	3693.4	39.95	202.91	-1790.3	-756.5	1943.6	1943.6	Start Drop -2.00
4875.0	5690.7	0.00	0.00	-2406.1	-1016.8	2612.1	2612.1	Vertical
4975.0	5790.7	0.00	0.00	-2406.1	-1016.8	2612.1	2612.1	Top Gas
7525.0	8340.7	0.00	0.00	-2406.1	-1016.8	2612.1	2612.1	TD at 8340.7

PICEANCE VLY NAD 83

RU 27-06S-094W

RMV 28-27 Pad

RWF 322-34 - Slot A2

Wellbore #1

Plan: Plan #2 20Apr10 kjs

Standard Planning Report - Geographic

07 July, 2010

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 322-34 - Slot A2
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Project:	RU 27-06S-094W	MD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Site:	RMV 28-27 Pad	North Reference:	True
Well:	RWF 322-34	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 20Apr10 kjs		

Project	RU 27-06S-094W, Garfield County, CO, 27-06S-094W		
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	RMV 28-27 Pad		
Site Position:		Northing:	1,612,143.20 usft
From:	Map	Easting:	2,330,505.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39° 29' 24.388 N
		Longitude:	107° 52' 20.929 W
		Grid Convergence:	-1.50 °

Well	RWF 322-34 - Slot A2		
Well Position	+N/-S	0.0 usft	Northing: 1,612,157.00 usft
	+E/-W	0.0 usft	Easting: 2,330,490.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 29' 24.520 N
			Longitude: 107° 52' 21.125 W
			Ground Level: 5,297.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2005-10	4/20/2010	(°)	(°)	(nT)
			10.42	65.80	52,414

Design	Plan #2 20Apr10 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	202.91

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	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,261.3	39.95	202.91	1,171.1	-351.9	-148.7	3.50	3.50	0.00	202.91	
3,693.4	39.95	202.91	3,035.6	-1,790.3	-756.5	0.00	0.00	0.00	0.00	
5,690.7	0.00	0.00	4,875.0	-2,406.1	-1,016.8	2.00	-2.00	0.00	180.00	
5,790.7	0.00	0.00	4,975.0	-2,406.1	-1,016.8	0.00	0.00	0.00	0.00	Top Gas (25' Radius)
8,340.7	0.00	0.00	7,525.0	-2,406.1	-1,016.8	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 322-34 - Slot A2
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Project:	RU 27-06S-094W	MD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Site:	RMV 28-27 Pad	North Reference:	True
Well:	RWF 322-34	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 20Apr10 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	1,612,157.00	2,330,490.00	39° 29' 24.520 N	107° 52' 21.125 W	
120.0	0.00	0.00	120.0	0.0	0.0	1,612,157.00	2,330,490.00	39° 29' 24.520 N	107° 52' 21.125 W	
Start Build 3.50										
1,261.3	39.95	202.91	1,171.1	-351.9	-148.7	1,611,809.13	2,330,332.17	39° 29' 21.043 N	107° 52' 23.022 W	
Hold 39.95 Inclination										
1,494.7	39.95	202.91	1,350.0	-489.9	-207.0	1,611,672.68	2,330,270.26	39° 29' 19.679 N	107° 52' 23.766 W	
Top of "G" Sand										
1,625.1	39.95	202.91	1,450.0	-567.1	-239.6	1,611,596.42	2,330,235.66	39° 29' 18.916 N	107° 52' 24.181 W	
Base of "G" Sand										
1,755.6	39.95	202.91	1,550.0	-644.2	-272.2	1,611,520.15	2,330,201.06	39° 29' 18.154 N	107° 52' 24.597 W	
9 5/8"										
3,693.4	39.95	202.91	3,035.6	-1,790.3	-756.5	1,610,387.16	2,329,687.01	39° 29' 6.827 N	107° 52' 30.774 W	
Start Drop -2.00										
4,577.9	22.26	202.91	3,790.0	-2,209.5	-933.7	1,609,972.73	2,329,498.98	39° 29' 2.683 N	107° 52' 33.033 W	
Mesaverde										
5,690.7	0.00	0.00	4,875.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Vertical										
5,790.7	0.00	0.00	4,975.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Top Gas - Approx. Top Gas										
7,305.7	0.00	0.00	6,490.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Cameo Coals										
7,995.7	0.00	0.00	7,180.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Coal D										
8,110.7	0.00	0.00	7,295.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Lower Cameo Pay										
8,190.7	0.00	0.00	7,375.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
Rollins SS										
8,340.7	0.00	0.00	7,525.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
TD at 8340.7 - TD										

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) R1	0.00	0.00	4,975.0	-2,406.1	-1,016.8	1,609,778.40	2,329,410.80	39° 29' 0.741 N	107° 52' 34.093 W	
- plan hits target center										
- Circle (radius 25.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,755.6	1,550.0	9 5/8"	9-5/8	12-1/4	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 322-34 - Slot A2
Company:	PICEANCE VLY NAD 83	TVD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Project:	RU 27-06S-094W	MD Reference:	KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)
Site:	RMV 28-27 Pad	North Reference:	True
Well:	RWF 322-34	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 20Apr10 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,494.7	1,350.0	Top of "G" Sand				
1,625.1	1,450.0	Base of "G" Sand				
4,577.9	3,790.0	Mesaverde				
5,790.7	4,975.0	Approx. Top Gas				
7,305.7	6,490.0	Cameo Coals				
7,995.7	7,180.0	Coal D				
8,110.7	7,295.0	Lower Cameo Pay				
8,190.7	7,375.0	Rollins SS				
8,340.7	7,525.0	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
120.0	120.0	0.0	0.0	Start Build 3.50
1,261.3	1,171.1	-351.9	-148.7	Hold 39.95 Inclination
3,693.4	3,035.6	-1,790.3	-756.5	Start Drop -2.00
5,690.7	4,875.0	-2,406.1	-1,016.8	Vertical
5,790.7	4,975.0	-2,406.1	-1,016.8	Top Gas
8,340.7	7,525.0	-2,406.1	-1,016.8	TD at 8340.7