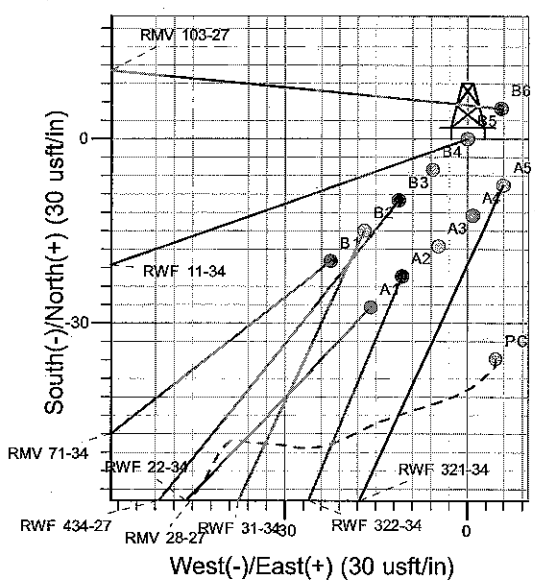
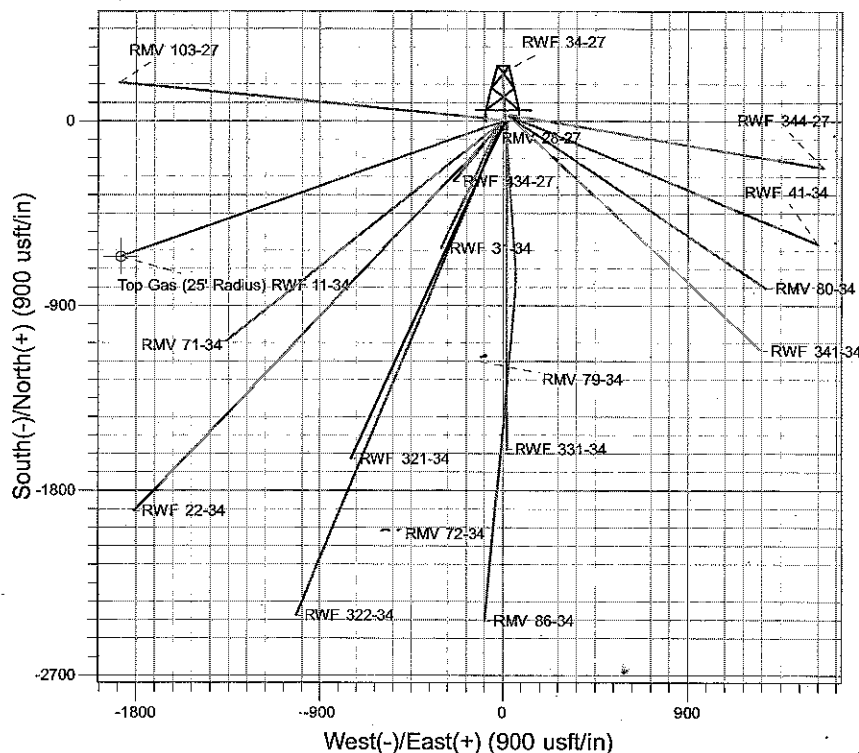
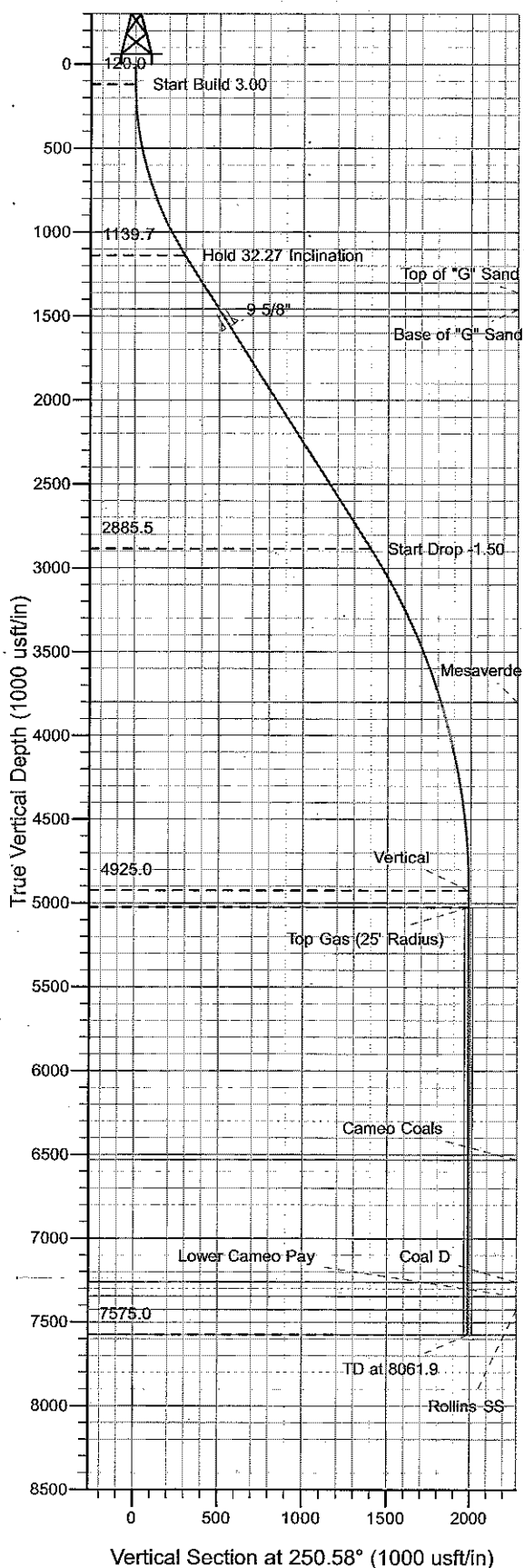




Well Name: RWF 11-34
 Surface Location: RMV 28-27 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5297.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1612179.10 2330501.30 39° 29' 24.742 N 107° 52' 20.988 W B5
 KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)



Project: RU 27-06S-094W
 Site: RMV 28-27 Pad
 Well: RWF 11-34
 Plan #2 20Apr10 kjs

Azimuths to True North
 Magnetic North: 10.70°
 Magnetic Field
 Strength: 52621.0snT
 Dip Angle: 65.85°
 Date: 3/7/2008
 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
1139.7	1195.7	32.27	250.58	-98.1	-278.2	295.0	295.0	Hold 32.27 Inclination
2885.5	3260.5	32.27	250.58	-464.6	-1318.0	1397.5	1397.5	Start Drop -1.50
4925.0	5411.9	0.00	0.00	-660.7	-1874.5	1987.5	1987.5	Vertical
5025.0	5511.9	0.00	0.00	-660.7	-1874.5	1987.5	1987.5	Top Gas
7575.0	8061.9	0.00	0.00	-660.7	-1874.5	1987.5	1987.5	TD at 8061.9

PICEANCE VLY NAD 83

RU 27-06S-094W

RMV 28-27 Pad

RWF 11-34 - Slot B5

Wellbore #1

Plan: Plan #2 20Apr10 kjs

Standard Planning Report - Geographic

06 July, 2010

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 11-34 - Slot B5
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 11-34	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 11-34 - Slot B5		
Well Position	+N/-S	0.0 usft	Northing: 1,612,179.10 usft
	+E/-W	0.0 usft	Easting: 2,330,501.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 29' 24.742 N
			Longitude: 107° 52' 20.988 W
			Ground Level: 5,297.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2005-10	3/7/2008	10.70
			Dip Angle (°)
			65.85
			Field Strength (nT)
			52,621

Design	Plan #2 20Apr10 kjs		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			250.58

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	
1,195.7	32.27	250.58	1,139.7	-98.1	-278.2	3.00	3.00	0.00	250.58	
3,260.5	32.27	250.58	2,885.5	-464.6	-1,318.0	0.00	0.00	0.00	0.00	
5,411.9	0.00	0.00	4,925.0	-660.7	-1,874.5	1.50	-1.50	0.00	180.00	
5,511.9	0.00	0.00	5,025.0	-660.7	-1,874.5	0.00	0.00	0.00	0.00	Top Gas (25' Radius)
8,061.9	0.00	0.00	7,575.0	-660.7	-1,874.5	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 11-34 - Slot B5
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 11-34	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	1,612,179.10	2,330,501.30	39° 29' 24.742 N	107° 52' 20.988 W
120.0	0.00	0.00	120.0	0.0	0.0	1,612,179.10	2,330,501.30	39° 29' 24.742 N	107° 52' 20.988 W
Start Build 3.00									
1,195.7	32.27	250.58	1,139.7	-98.1	-278.2	1,612,088.33	2,330,220.60	39° 29' 23.772 N	107° 52' 24.537 W
Hold 32.27 Inclination									
1,456.2	32.27	250.58	1,360.0	-144.3	-409.4	1,612,045.53	2,330,088.27	39° 29' 23.315 N	107° 52' 26.211 W
Top of "G" Sand									
1,574.5	32.27	250.58	1,460.0	-165.3	-469.0	1,612,026.10	2,330,028.18	39° 29' 23.108 N	107° 52' 26.970 W
Base of "G" Sand									
1,692.8	32.27	250.58	1,560.0	-186.3	-528.5	1,612,006.67	2,329,968.10	39° 29' 22.900 N	107° 52' 27.730 W
9 5/8"									
3,260.5	32.27	250.58	2,885.5	-464.6	-1,318.0	1,611,749.14	2,329,171.70	39° 29' 20.150 N	107° 52' 37.799 W
Start Drop -1.50									
4,270.0	17.13	250.58	3,800.0	-604.4	-1,714.7	1,611,619.72	2,328,771.50	39° 29' 18.768 N	107° 52' 42.859 W
Mesaverde									
5,411.9	0.00	0.00	4,925.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Vertical									
5,511.9	0.00	0.00	5,025.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Top Gas - Approx. Top Gas									
7,016.9	0.00	0.00	6,530.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Cameo Coals									
7,746.9	0.00	0.00	7,260.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Coal D									
7,831.9	0.00	0.00	7,345.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Lower Cameo Pay									
7,911.9	0.00	0.00	7,425.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
Rollins SS									
8,061.9	0.00	0.00	7,575.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
TD at 8061.9 - 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	5,025.0	-660.7	-1,874.5	1,611,567.60	2,328,610.30	39° 29' 18.211 N	107° 52' 44.897 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,692.8	1,560.0	9 5/8"	9-5/8	12-1/4	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 11-34 - Slot B5
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 11-34	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 (°)	
1,456.2	1,360.0	Top of "G" Sand				
1,574.5	1,460.0	Base of "G" Sand				
4,270.0	3,800.0	Mesaverde				
5,511.9	5,025.0	Approx. Top Gas				
7,016.9	6,530.0	Cameo Coals				
7,746.9	7,260.0	Coal D				
7,831.9	7,345.0	Lower Cameo Pay				
7,911.9	7,425.0	Rollins SS				
8,061.9	7,575.0	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 3.00	
1,195.7	1,139.7	-98.1	-278.2	Hold 32.27 Inclination	
3,260.5	2,885.5	-464.6	-1,318.0	Start Drop -1.50	
5,411.9	4,925.0	-660.7	-1,874.5	Vertical	
5,511.9	5,025.0	-660.7	-1,874.5	Top Gas	
8,061.9	7,575.0	-660.7	-1,874.5	TD at 8061.9	