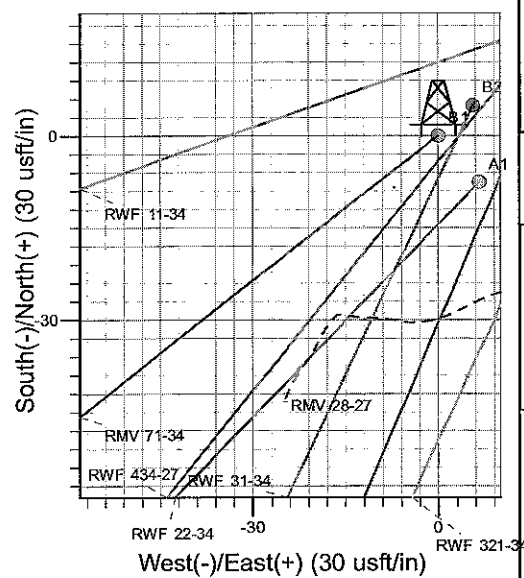
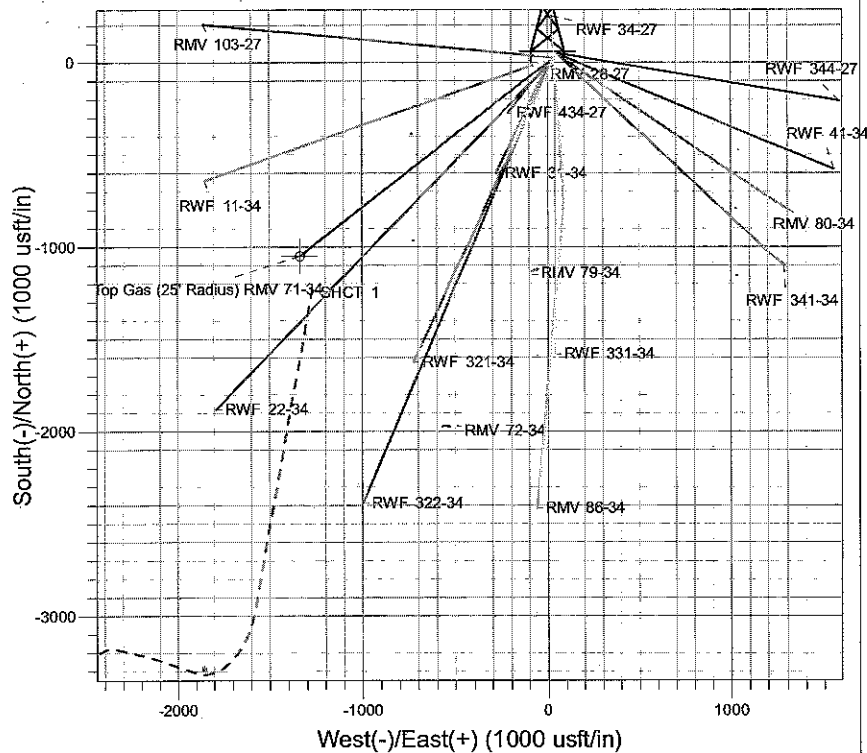
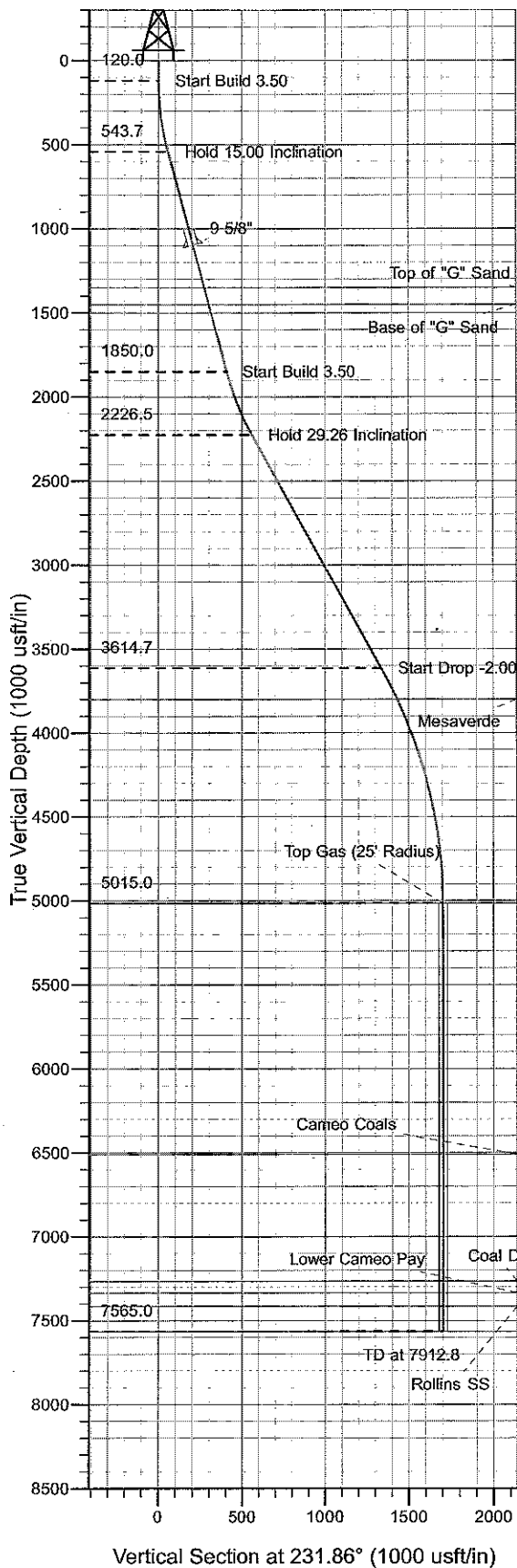




Well Name: RMV 71-34
 Surface Location: RMV 28-27 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5297.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1612159.80 2330478.30 39° 29' 24.545 N 107° 52' 21.275 W B1
 KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)



Project: RU 27-06S-094W
 Site: RMV 28-27 Pad
 Well: RMV 71-34
 Plan #2 20Apr10 kjs

Azimuths to True North
 Magnetic North: 10.70°
 Magnetic Field
 Strength: 52620.9nT
 Dip Angle: 65.85°
 Date: 3/7/2008
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	inc	Azi	+N/-S	+E/-W	VSDeparture	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	Start Build 3.50
543.7	548.6	15.00	231.85	-34.5	-43.9	55.8	Hold 15.00 Inclination
1850.0	1901.0	15.00	231.85	-250.7	-319.1	405.8	Start Build 3.50
2226.5	2308.4	29.26	231.86	-345.2	-439.5	558.9	Hold 29.26 Inclination
3614.7	3899.7	29.26	231.86	-825.6	-1051.3	1336.7	Start Drop -2.00
5015.0	5362.8	0.00	0.00	-1051.4	-1338.8	1702.2	Top Gas
7565.0	7912.8	0.00	0.00	-1051.4	-1338.8	1702.2	TD at 7912.8

PICEANCE VLY NAD 83

RU 27-06S-094W

RMV 28-27 Pad

RMV 71-34 - Slot B1

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 RMV 71-34 - Slot B1
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:	RMV 71-34	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	RMV 71-34 - Slot B1		
Well Position	+N/-S	0.0 usft	Northing: 1,612,159.80 usft
	+E/-W	0.0 usft	Easting: 2,330,478.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 29' 24.545 N
			Longitude: 107° 52' 21.275 W
			Ground Level: 5,297.0 usft

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

Design	Plan #2 20Apr10 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	231.86	

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	
548.6	15.00	231.85	543.7	-34.5	-43.9	3.50	3.50	0.00	231.85	
1,901.0	15.00	231.85	1,850.0	-250.7	-319.1	0.00	0.00	0.00	0.00	
2,308.4	29.26	231.86	2,226.5	-345.2	-439.5	3.50	3.50	0.00	0.00	
3,899.7	29.26	231.86	3,614.7	-825.6	-1,051.3	0.00	0.00	0.00	0.00	
5,362.8	0.00	0.00	5,015.0	-1,051.4	-1,338.8	2.00	-2.00	0.00	180.00	Top Gas (25' Radius)
7,912.8	0.00	0.00	7,565.0	-1,051.4	-1,338.8	0.00	0.00	0.00	0.00	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RMV 71-34 - Slot B1
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:	RMV 71-34	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	1,612,159.80	2,330,478.30	39° 29' 24.545 N	107° 52' 21.275 W
120.0	0.00	0.00	120.0	0.0	0.0	1,612,159.80	2,330,478.30	39° 29' 24.545 N	107° 52' 21.275 W
Start Build 3.50									
548.6	15.00	231.85	543.7	-34.5	-43.9	1,612,126.50	2,330,433.55	39° 29' 24.205 N	107° 52' 21.835 W
Hold 15.00 Inclination									
1,124.5	15.00	231.85	1,100.0	-126.5	-161.1	1,612,037.52	2,330,313.97	39° 29' 23.295 N	107° 52' 23.330 W
9 5/8"									
1,383.3	15.00	231.85	1,350.0	-167.9	-213.8	1,611,997.53	2,330,260.23	39° 29' 22.886 N	107° 52' 24.002 W
Top of "G" Sand									
1,486.8	15.00	231.85	1,450.0	-184.5	-234.8	1,611,981.53	2,330,238.74	39° 29' 22.722 N	107° 52' 24.270 W
Base of "G" Sand									
1,901.0	15.00	231.85	1,850.0	-250.7	-319.1	1,611,917.55	2,330,152.76	39° 29' 22.068 N	107° 52' 25.346 W
Start Build 3.50									
2,308.4	29.26	231.86	2,226.5	-345.2	-439.5	1,611,826.18	2,330,029.93	39° 29' 21.133 N	107° 52' 26.881 W
Hold 29.26 Inclination									
3,899.7	29.26	231.86	3,614.7	-825.6	-1,051.3	1,611,361.96	2,329,405.87	39° 29' 16.385 N	107° 52' 34.684 W
Start Drop -2.00									
4,108.0	25.09	231.86	3,800.0	-884.4	-1,126.1	1,611,305.19	2,329,329.56	39° 29' 15.805 N	107° 52' 35.638 W
Mesaverde									
5,362.8	0.00	0.00	5,015.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
Top Gas - Approx. Top Gas									
6,857.8	0.00	0.00	6,510.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
Cameo Coals									
7,612.8	0.00	0.00	7,265.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
Coal D									
7,682.8	0.00	0.00	7,335.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
Lower Cameo Pay									
7,762.8	0.00	0.00	7,415.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
Rollins SS									
7,912.8	0.00	0.00	7,565.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
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) Rt	0.00	0.00	5,015.0	-1,051.4	-1,338.8	1,611,143.80	2,329,112.60	39° 29' 14.154 N	107° 52' 38.351 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,124.5	1,100.0	9 5/8"	9-5/8	12-1/4	

Williams

Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RMV 71-34 - Slot B1
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:	RMV 71-34	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 (°)	
1,383.3	1,350.0	Top of "G" Sand				
1,486.8	1,450.0	Base of "G" Sand				
4,108.0	3,800.0	Mesaverde				
5,362.8	5,015.0	Approx. Top Gas				
6,857.8	6,510.0	Cameo Coals				
7,612.8	7,265.0	Coal D				
7,682.8	7,335.0	Lower Cameo Pay				
7,762.8	7,415.0	Rollins SS				
7,912.8	7,565.0	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
548.6	543.7	-34.5	-43.9	Hold 15.00 Inclination
1,901.0	1,850.0	-250.7	-319.1	Start Build 3.50
2,308.4	2,226.5	-345.2	-439.5	Hold 29.26 Inclination
3,899.7	3,614.7	-825.6	-1,051.3	Start Drop -2.00
5,362.8	5,015.0	-1,051.4	-1,338.8	Top Gas
7,912.8	7,565.0	-1,051.4	-1,338.8	TD at 7912.8