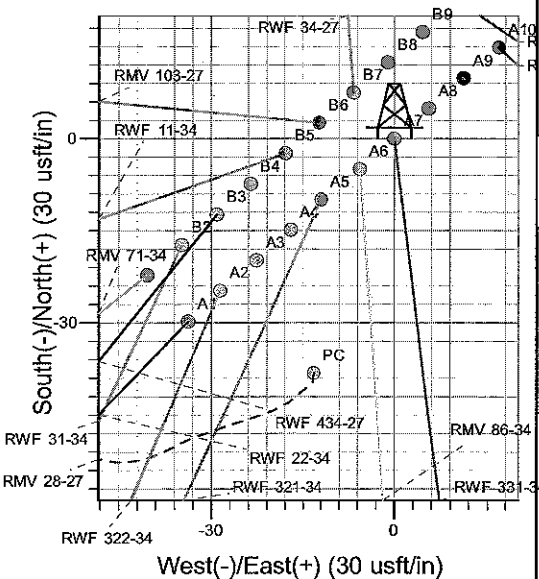
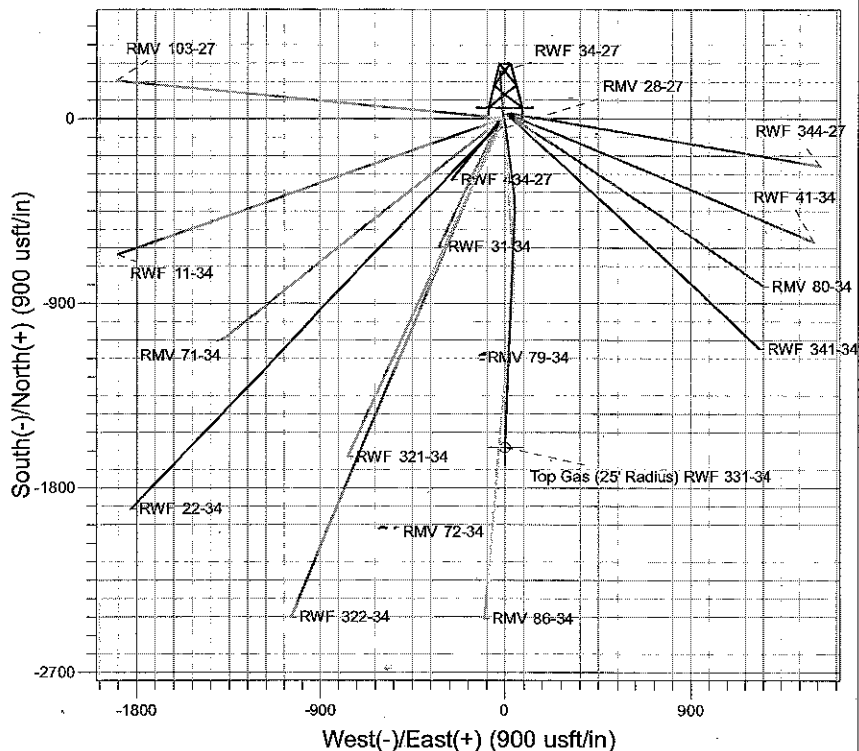
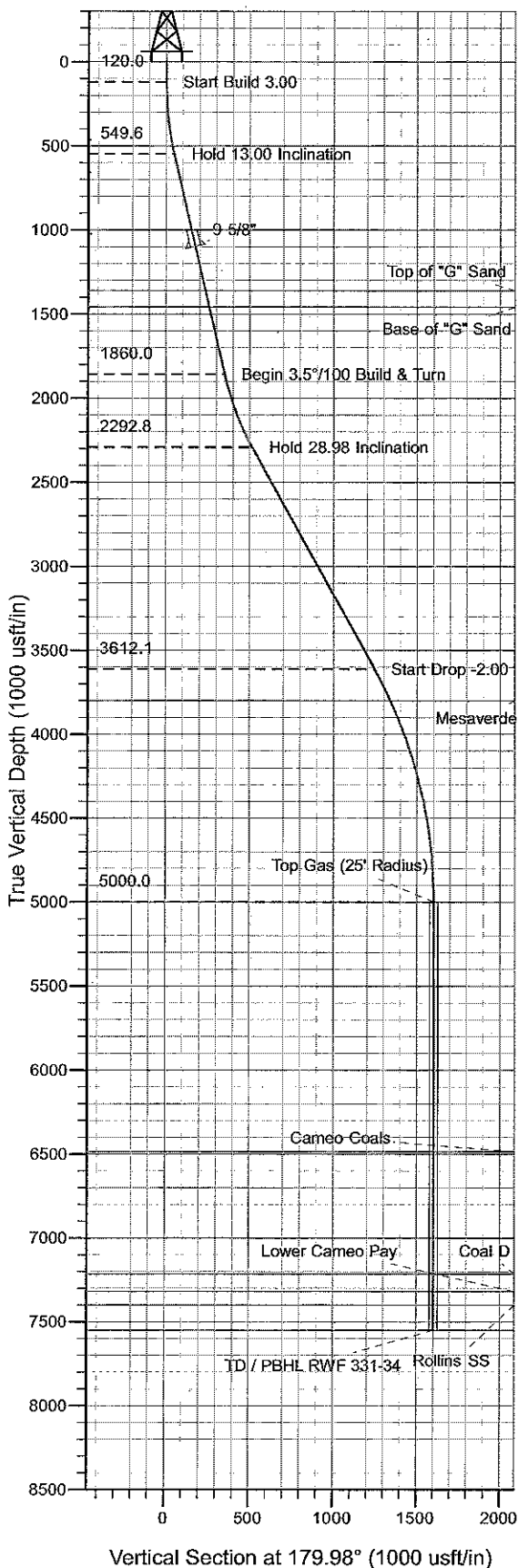




Well Name: RWF 331-34
 Surface Location: RMV 28-27 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5297.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1612181.00 2330519.20 39° 29' 24.765 N 107° 52' 20.761 W A7
 KELLY BUSHING @ 5321.0usft (H&P (24' RKB) kjs)



Project: RU 27-06S-094W
 Site: RMV 28-27 Pad
 Well: RWF 331-34
 Plan #2 20Apr10 kjs

M Azimuths to True North
 Magnetic North: 10.70°
 Magnetic Field
 Strength: 52621.0nT
 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
549.6	553.3	13.00	173.00	-48.6	6.0	48.6	48.9	Hold 13.00 Inclination
1860.0	1898.2	13.00	173.00	-348.9	42.8	348.9	351.5	Begin 3.5°/100 Build & Turn
2292.8	2363.2	28.98	182.32	-514.4	44.7	514.4	517.5	Hold 28.98 Inclination
3612.1	3871.2	28.98	182.32	-1244.4	15.1	1244.4	1248.1	Start Drop -2.00
5000.0	5320.1	0.00	0.00	-1602.8	0.7	1602.8	1606.7	Top Gas
7550.0	7870.1	0.00	0.00	-1602.8	0.7	1602.8	1606.7	TD at 7870.1

PICEANCE VLY NAD 83

RU 27-06S-094W

RMV 28-27 Pad

RWF 331-34 - Slot A7

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 331-34 - Slot A7
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 331-34	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 331-34 - Slot A7		
Well Position	+N/-S	0.0 usft	Northing: 1,612,181.00 usft
	+E/-W	0.0 usft	Easting: 2,330,519.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 39° 29' 24.765 N
			Longitude: 107° 52' 20.761 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)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	179.98

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	
553.3	13.00	173.00	549.6	-48.6	6.0	3.00	3.00	0.00	173.00	
1,898.2	13.00	173.00	1,860.0	-348.9	42.8	0.00	0.00	0.00	0.00	
2,363.2	28.98	182.32	2,292.8	-514.4	44.7	3.50	3.44	2.00	16.25	
3,871.2	28.98	182.32	3,612.1	-1,244.4	15.1	0.00	0.00	0.00	0.00	
5,320.1	0.00	0.00	5,000.0	-1,602.8	0.7	2.00	-2.00	0.00	180.00	Top Gas (25' Radius)
7,870.1	0.00	0.00	7,550.0	-1,602.8	0.7	0.00	0.00	0.00	0.00	TD / PBHL RWF 331-

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 331-34 - Slot A7
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 331-34	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	1,612,181.00	2,330,519.20	39° 29' 24.765 N	107° 52' 20.761 W
120.0	0.00	0.00	120.0	0.0	0.0	1,612,181.00	2,330,519.20	39° 29' 24.765 N	107° 52' 20.761 W
Start Build 3.00									
553.3	13.00	173.00	549.6	-48.6	6.0	1,612,132.27	2,330,523.90	39° 29' 24.285 N	107° 52' 20.685 W
Hold 13.00 Inclination									
1,118.2	13.00	173.00	1,100.0	-174.7	21.5	1,612,005.80	2,330,536.08	39° 29' 23.039 N	107° 52' 20.487 W
9 5/8"									
1,385.0	13.00	173.00	1,360.0	-234.3	28.8	1,611,946.05	2,330,541.84	39° 29' 22.450 N	107° 52' 20.394 W
Top of "G" Sand									
1,487.7	13.00	173.00	1,460.0	-257.2	31.6	1,611,923.07	2,330,544.05	39° 29' 22.223 N	107° 52' 20.358 W
Base of "G" Sand									
1,898.2	13.00	173.00	1,860.0	-348.9	42.8	1,611,831.16	2,330,552.91	39° 29' 21.317 N	107° 52' 20.214 W
Begin 3.5°/100 Build & Turn									
2,363.2	28.98	182.32	2,292.8	-514.4	44.7	1,611,665.60	2,330,550.42	39° 29' 19.681 N	107° 52' 20.191 W
Hold 28.98 Inclination									
3,871.2	28.98	182.32	3,612.1	-1,244.4	15.1	1,610,936.64	2,330,501.85	39° 29' 12.466 N	107° 52' 20.567 W
Start Drop -2.00									
4,081.9	24.76	182.32	3,800.0	-1,339.6	11.3	1,610,841.64	2,330,495.52	39° 29' 11.526 N	107° 52' 20.617 W
Mesaverde									
5,320.1	0.00	0.00	5,000.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
Top Gas - Approx. Top Gas									
6,805.1	0.00	0.00	6,485.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
Cameo Coals									
7,535.1	0.00	0.00	7,215.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
Coal D									
7,640.1	0.00	0.00	7,320.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
Lower Cameo Pay									
7,720.1	0.00	0.00	7,400.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
Rollins SS									
7,870.1	0.00	0.00	7,550.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
TD at 7870.1 - TD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (25' Radius) RI - plan hits target center - Circle (radius 25.0)	0.00	0.00	5,000.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W
TD / PBHL RWF 331-34 - plan hits target center - Point	0.00	0.00	7,550.0	-1,602.8	0.7	1,610,578.80	2,330,478.00	39° 29' 8.924 N	107° 52' 20.752 W

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well RWF 331-34 - Slot A7
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 331-34	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 20Apr10 kjs		

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,118.2	1,100.0	9 5/8"	9-5/8	12-1/4

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip Direction (")
1,385.0	1,360.0	Top of "G" Sand		
1,487.7	1,460.0	Base of "G" Sand		
4,081.9	3,800.0	Mesaverde		
5,320.1	5,000.0	Approx. Top Gas		
6,805.1	6,485.0	Cameo Coals		*
7,535.1	7,215.0	Coal D		
7,640.1	7,320.0	Lower Cameo Pay		
7,720.1	7,400.0	Rollins SS		
7,870.1	7,550.0	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 3.00
553.3	549.6	-48.6	6.0	Hold 13.00 Inclination
1,898.2	1,860.0	-348.9	42.8	Begin 3.5°/100 Build & Turn
2,363.2	2,292.8	-514.4	44.7	Hold 28.98 Inclination
3,871.2	3,612.1	-1,244.4	15.1	Start Drop -2.00
5,320.1	5,000.0	-1,602.8	0.7	Top Gas
7,870.1	7,550.0	-1,602.8	0.7	TD at 7870.1