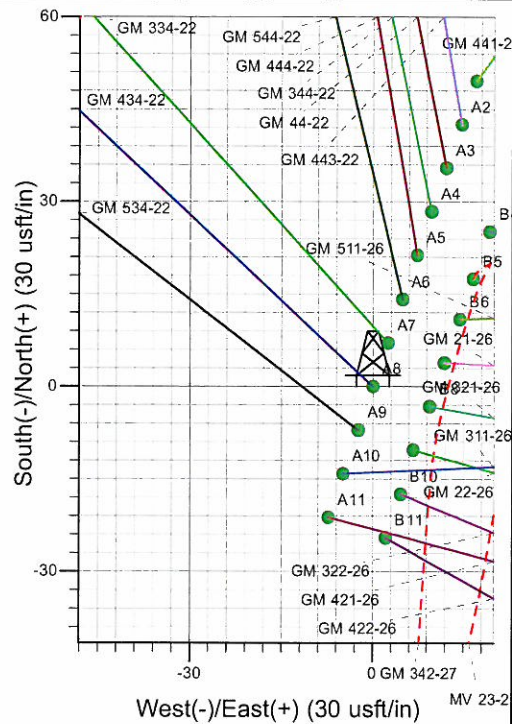
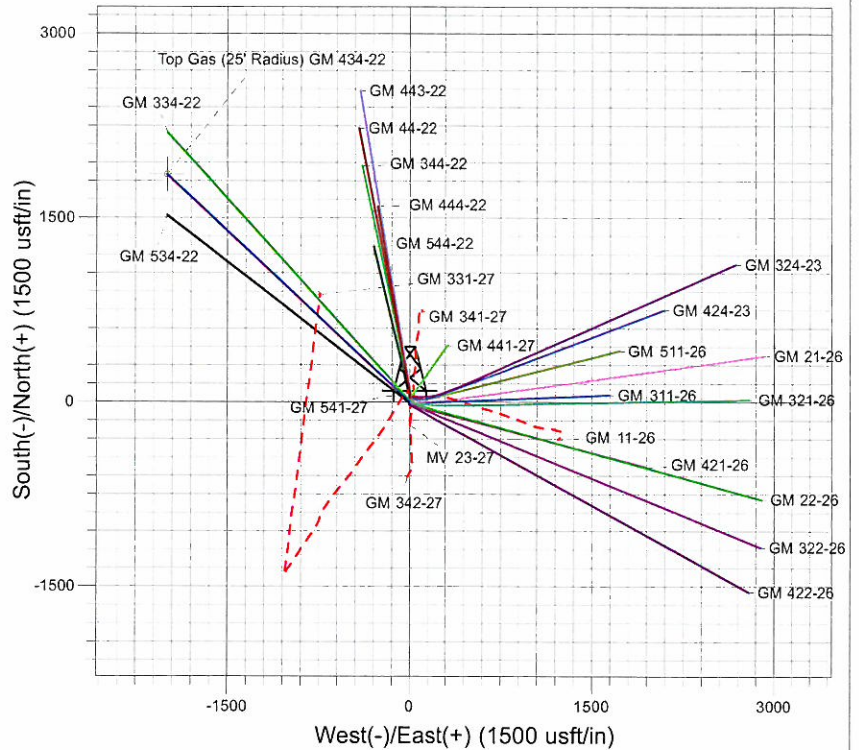
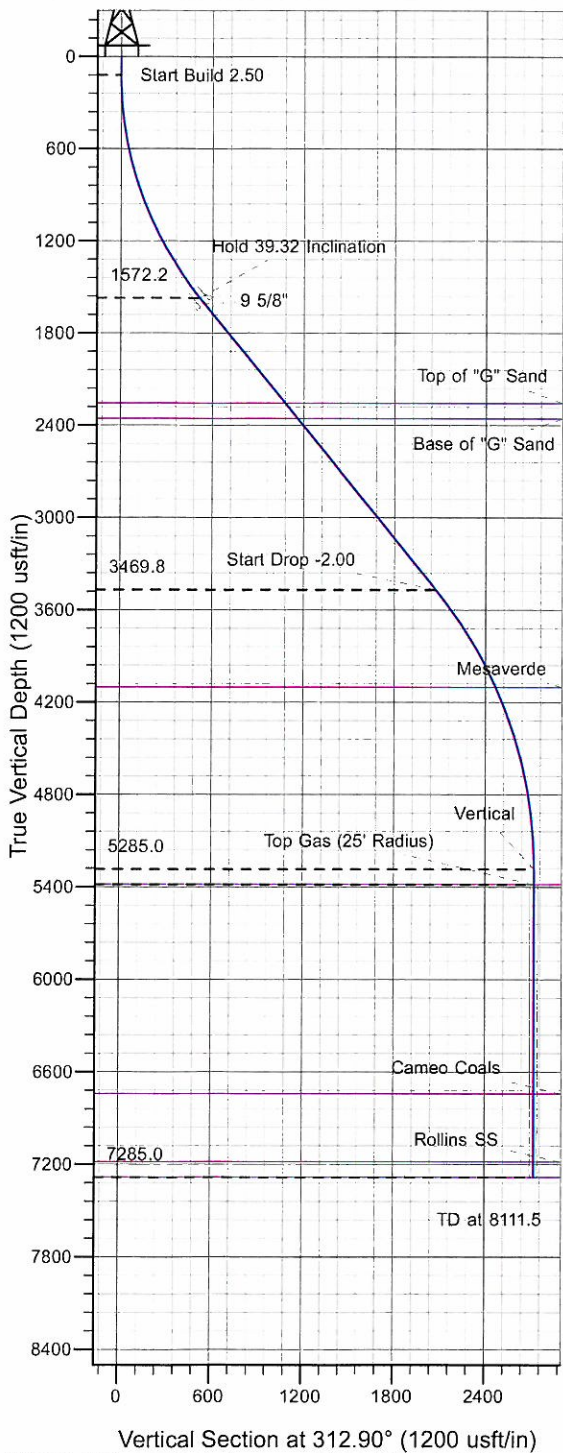




Well Name: GM 434-22
 Surface Location: MV 23-27 Pad
 North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
 Ground Elevation: 5770.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1617299.50 2269875.80 39° 29' 58.975 N 108° 5' 15.865 W A8
 KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs)



Project: GV 27-06S-096W
 Site: MV 23-27 Pad
 Well: GM 434-22
 Plan #2 27Sep10 kjs

M Azimuths to True North
 Magnetic North: 10.54°
 Magnetic Field
 Strength: 52357.7nT
 Dip Angle: 65.76°
 Date: 4/21/2010
 Model: IGRF2010

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 2.50 |
| 1572.2 | 1692.8 | 39.32 | 312.90 | 353.2 | -380.0 | 518.8 | 518.8 | Hold 39.32 Inclination |
| 3469.8 | 4145.6 | 39.32 | 312.90 | 1411.3 | -1518.4 | 2073.0 | 2073.0 | Start Drop -2.00 |
| 5285.0 | 6111.5 | 0.00 | 0.00 | 1852.8 | -1993.5 | 2721.5 | 2721.5 | Vertical |
| 5385.0 | 6211.5 | 0.00 | 0.00 | 1852.8 | -1993.5 | 2721.5 | 2721.5 | Top Gas |
| 7285.0 | 8111.5 | 0.00 | 0.00 | 1852.8 | -1993.5 | 2721.5 | 2721.5 | TD at 8111.5 |

PICEANCE VLY NAD 83

GV 27-06S-096W

MV 23-27 Pad

GM 434-22 - Slot A8

Wellbore #1

Plan: Plan #2 27Sep10 kjs

Standard Planning Report - Geographic

26 October, 2010

Williams
Planning Report - Geographic

| | | | |
|------------------|------------------------|-------------------------------------|--|
| Database: | Compass R5000 WIN AUTH | Local Co-ordinate Reference: | Well GM 434-22 - Slot A8 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Project: | GV 27-06S-096W | MD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Site: | MV 23-27 Pad | North Reference: | True |
| Well: | GM 434-22 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #2 27Sep10 kjs | | |

| | | | |
|--------------------|--|----------------------|-----------------------------|
| Project | GV 27-06S-096W, Garfield County, CO, 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 | | Using geodetic scale factor |

| | | | | |
|------------------------------|--------------|---------------------|-------------------|------------------------------------|
| Site | MV 23-27 Pad | | | |
| Site Position: | | Northing: | 1,617,330.50 usft | Latitude: 39° 29' 59.287 N |
| From: Map | | Easting: | 2,269,898.90 usft | Longitude: 108° 5' 15.581 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13.200 in | Grid Convergence: -1.632 ° |

| | | | | |
|-----------------------------|---------------------|----------|----------------------------|------------------------------------|
| Well | GM 434-22 - Slot A8 | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 1,617,299.50 usft |
| | +E/-W | 0.0 usft | Easting: | 2,269,875.80 usft |
| Position Uncertainty | 0.0 usft | | Wellhead Elevation: | Latitude: 39° 29' 58.975 N |
| | | | | Longitude: 108° 5' 15.865 W |
| | | | | Ground Level: 5,770.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/21/2010 | 10.542 | 65.756 | 52,358 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Plan #2 27Sep10 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 | 312.90 |

| 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 | |
| 1,692.8 | 39.32 | 312.90 | 1,572.2 | 353.2 | -380.0 | 2.50 | 2.50 | 0.00 | 312.905 | |
| 4,145.6 | 39.32 | 312.90 | 3,469.8 | 1,411.3 | -1,518.4 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 6,111.5 | 0.00 | 0.00 | 5,285.0 | 1,852.8 | -1,993.5 | 2.00 | -2.00 | 0.00 | 180.000 | |
| 6,211.5 | 0.00 | 0.00 | 5,385.0 | 1,852.8 | -1,993.5 | 0.00 | 0.00 | 0.00 | 0.000 | Top Gas (25' Radius) |
| 8,111.5 | 0.00 | 0.00 | 7,285.0 | 1,852.8 | -1,993.5 | 0.00 | 0.00 | 0.00 | 0.000 | |

Williams
Planning Report - Geographic

| | | | |
|------------------|------------------------|-------------------------------------|--|
| Database: | Compass R5000 WIN AUTH | Local Co-ordinate Reference: | Well GM 434-22 - Slot A8 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Project: | GV 27-06S-096W | MD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Site: | MV 23-27 Pad | North Reference: | True |
| Well: | GM 434-22 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #2 27Sep10 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 | 1,617,299.50 | 2,269,875.80 | 39° 29' 58.975 N | 108° 5' 15.865 W | |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 1,617,299.50 | 2,269,875.80 | 39° 29' 58.975 N | 108° 5' 15.865 W | |
| Start Build 2.50 | | | | | | | | | | |
| 1,692.8 | 39.32 | 312.90 | 1,572.2 | 353.2 | -380.0 | 1,617,663.35 | 2,269,506.02 | 39° 30' 2.465 N | 108° 5' 20.712 W | |
| Hold 39.32 Inclination | | | | | | | | | | |
| 1,743.0 | 39.32 | 312.90 | 1,611.1 | 374.9 | -403.3 | 1,617,685.68 | 2,269,483.32 | 39° 30' 2.680 N | 108° 5' 21.010 W | |
| 9 5/8" | | | | | | | | | | |
| 2,576.7 | 39.32 | 312.90 | 2,256.0 | 734.5 | -790.3 | 1,618,056.15 | 2,269,106.81 | 39° 30' 6.234 N | 108° 5' 25.946 W | |
| Top of "G" Sand | | | | | | | | | | |
| 2,705.9 | 39.32 | 312.90 | 2,356.0 | 790.2 | -850.3 | 1,618,113.60 | 2,269,048.44 | 39° 30' 6.785 N | 108° 5' 26.712 W | |
| Base of "G" Sand | | | | | | | | | | |
| 4,145.6 | 39.32 | 312.90 | 3,469.8 | 1,411.3 | -1,518.4 | 1,618,753.38 | 2,268,398.23 | 39° 30' 12.922 N | 108° 5' 35.236 W | |
| Start Drop -2.00 | | | | | | | | | | |
| 4,894.2 | 24.35 | 312.90 | 4,104.0 | 1,679.3 | -1,806.8 | 1,619,029.52 | 2,268,117.59 | 39° 30' 15.571 N | 108° 5' 38.916 W | |
| Mesaverde | | | | | | | | | | |
| 6,111.5 | 0.00 | 0.00 | 5,285.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 W | |
| Vertical | | | | | | | | | | |
| 6,211.5 | 0.00 | 0.00 | 5,385.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 W | |
| Top Gas - Approx. Top Gas | | | | | | | | | | |
| 7,568.5 | 0.00 | 0.00 | 6,742.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 W | |
| Cameo Coals | | | | | | | | | | |
| 8,011.5 | 0.00 | 0.00 | 7,185.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 W | |
| Rollins SS | | | | | | | | | | |
| 8,111.5 | 0.00 | 0.00 | 7,285.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 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) GI | 0.00 | 0.00 | 5,385.0 | 1,852.8 | -1,993.5 | 1,619,208.20 | 2,267,936.00 | 39° 30' 17.285 N | 108° 5' 41.297 W | |
| - plan hits target center | | | | | | | | | | |
| - Circle (radius 25.0) | | | | | | | | | | |

| Casing Points | | | | | | |
|-----------------------|-----------------------|--------|--|--|----------------------|--------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | | | Casing Diameter (in) | Hole Diameter (in) |
| 1,743.0 | 1,611.1 | 9 5/8" | | | 9.625 | 12.250 |

Williams
Planning Report - Geographic

| | | | |
|------------------|------------------------|-------------------------------------|--|
| Database: | Compass R5000 WIN AUTH | Local Co-ordinate Reference: | Well GM 434-22 - Slot A8 |
| Company: | PICEANCE VLY NAD 83 | TVD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Project: | GV 27-06S-096W | MD Reference: | KELLY BUSHING @ 5794.0usft (H&P 280 (24' RKB) kjs) |
| Site: | MV 23-27 Pad | North Reference: | True |
| Well: | GM 434-22 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #2 27Sep10 kjs | | |

| Formations | | | | | | |
|-----------------------|-----------------------|------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 2,576.7 | 2,256.0 | Top of "G" Sand | | | | |
| 2,705.9 | 2,356.0 | Base of "G" Sand | | | | |
| 4,894.2 | 4,104.0 | Mesaverde | | | | |
| 6,211.5 | 5,385.0 | Approx. Top Gas | | | | |
| 7,568.5 | 6,742.0 | Cameo Coals | | | | |
| 8,011.5 | 7,185.0 | Rollins SS | | | | |
| 8,111.5 | 7,285.0 | 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 | |
| 1,692.8 | 1,572.2 | 353.2 | -380.0 | Hold 39.32 Inclination | |
| 4,145.6 | 3,469.8 | 1,411.3 | -1,518.4 | Start Drop -2.00 | |
| 6,111.5 | 5,285.0 | 1,852.8 | -1,993.5 | Vertical | |
| 6,211.5 | 5,385.0 | 1,852.8 | -1,993.5 | Top Gas | |
| 8,111.5 | 7,285.0 | 1,852.8 | -1,993.5 | TD at 8111.5 | |