COGCC Form 2 Attachment Guidance:
Deviated Drilling Plan
10-9-2014

**Definition**
None

**Rule / Policy Citation**
303.a.(6).B.
If the proposed well is to be horizontal or deviated, drilled with controlled directional drilling methods, a deviated drilling plan with sufficient coordinate data to describe the location of the wellbore from the base of the surface casing to the kick off point and from that point to total depth, and two wellbore deviation plots, one depicting the plan view and one depicting the side view. (Additional requirements related to directional drilling are found in Rule 321.)

321. DIRECTIONAL DRILLING
If an operator intends to drill a horizontal or deviated wellbore utilizing controlled directional drilling methods, the plans shall accompany an Application for Permit-to-Drill, Form 2. The deviated drilling plan shall include sufficient coordinate data to describe the location of the wellbore from the base of the surface casing to the kick off point and from that point to total depth, and two wellbore deviation plots, one depicting the plan view and one depicting the side view.

**Purpose**
The deviated drilling plan provides the details of the proposed deviated wellbore, describing the intended wellbore path.

**Requirements**
1. Required PDF attachment for a directional wellbore
2. Sufficient data to describe the entire deviated wellbore from Kick Off Point (KOP) to Total Depth (TD):
   a. Measured Depth
   b. True Vertical Depth
   c. Inclination
   d. Azimuth
   e. Northing/Southing with appropriate sign (+/-)
   f. Easting/Westing with appropriate sign (+/-)
3. Wellbore deviation plot depicting the wellbore in plan (map) view
4. Wellbore deviation plot depicting the wellbore in side (cross section) view
5. The Deviated Drilling Plan offset distance coordinates (northing/southing and easting/westing) can be used with the Surface Location footages to calculate
the Top of Productive Zone and Bottom Hole Location footages submitted on the Form 2 and the Well Location Plat.

6. The total measured depth in the plan must agree with the proposed total measured depth on the Drilling & Waste Plans Tab on the Form 2.

7. The total measured depth and any casing string depths in the plan must agree with the Casing Depths on the Casing Tab on the Form 2.

8. The data in the plan must match the values in the imported Directional Data Template.

9. The deviated drilling plan is a PDF attachment. (The Directional Data Template is a spreadsheet.)

**Common Errors and Issues Encountered by COGCC Staff**

1. The Deviated Drilling Plan is not attached to the Form 2 for a directional well
2. The well name and/or number on the Deviated Drilling Plan do not match the well name and/or number on the Form 2.
3. The plan does not include the wellbore deviation plot depicting the wellbore in plan (map) view
4. The plan does not include the wellbore plot depicting the wellbore in side (cross section) view
5. The Top of Productive Zone and/or the Bottom Hole Location footages calculated with the Deviated Drilling Plan do not match the Form 2 values.
6. The total measured depth in the deviated drilling plan does not agree with the Proposed Total measured Depth submitted on the Drilling & Waste Plans Tab of the Form 2.
7. The total measured depth and any casing strings depths in the plan do not agree with the Casing Depths submitted on the Form 2.
8. The data in the plan does not match the values in the imported Directional Data Template.

**Notes**

None