

New Wellbore Integrity Rules

Description of Form Revisions

Effective November 2, 2020

This document provides simple descriptions of the form revisions.

*Please contact **COGCC Engineering Staff** for more information.*

The following forms have been revised to accommodate the rule changes adopted in the Wellbore Integrity Rulemaking:

- Form 2 – Application for Permit to Drill
- Form 4 – Sundry Notice
- Form 5 – Drilling Completion Report
- Form 6 – Well Abandonment Report
- Form 17 – Bradenhead Test Report
- Form 21 – Mechanical Integrity Test
- Form 33 – Injection Well Permit Application

All the changes are illustrated in this document.

- Any form ***In-Process*** or ***On-Hold*** on November 2, 2020 will remain unchanged.
- Any form in ***Draft*** on November 2, 2020 will be converted to the new version of the form.
- Any form ***“returned to Draft”*** on or after November 2, 2020 will be converted to the new version of the form.
- Any new form created on or after November 2, 2020 will be the new version.

Form 2

1. Well Location Tab

- GPS Data: “Instrument Operator's Name” has been removed.

GPS Data:

GPS Quality Value: Type of GPS Quality Value: Date of Measurement:

2. Drilling & Waste Plans Tab

- A shallow hydraulic fracture treatment question has been added.
- If there will be a shallow hydraulic fracture treatment “Geology and Hydrogeology Assessment” and “Engineering Assessment” attachments are required.

Is H2S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm?

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? If yes attach Geology and Hydrogeology Assessment and Engineering Assessment.

Will salt sections be encountered during drilling?

If yes, attach an H2S Drilling unless a plan was already submitted with the Form 2A p Rule 304.c.(10).

Form 2

3. Casing Tab

- Tab name has been changed to “Casing & Cementing Plan”
- Casing Program Table: A new column for casing “Grade” has been added.

Form 02 - Permit to Drill

Well Name & Contact Info	Well Location	Local Government	Surface & Minerals	Safety Setbacks	Spacing & Formations	Drilling Plan	Casing & Cementing Plan	Offset Wells Evaluation	Operator BMP/COA	Submit	Related Forms	Attach
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CASING PROGRAM (All depths in this table are measured depths.)

Casing Type	Size	Of	Hole	Size	Of	Casing	Grade	Vt/Ft	Csg/Lin Top	Setting Depth	Sacks Cement	Cmt Btm	Cmt Top
<input type="text"/>	<input type="text"/>	<input type="text"/>	/	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
n/a													

Conductor Casing is NOT planned.

Form 2

4. Casing & Cementing Plan Tab

- A new “Potential Flow and Confining Formation” table has been added.

POTENTIAL FLOW AND CONFINING FORMATION

Zone Type	Formation/Hazard	Top-Measured Depth	Top-true Vertical Depth	Btm-Measured Depth	Btm-True Vertical Depth	TDS(mg/L)	Data Source	Comments
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

5. Attachments

- “Engineering Assessment”, “Geology and Hydrogeology Assessment” and “Inclination Survey” attachment names have been added.

Form 4

1. Location Change/As-Built GPS Tab

- GPS Data: “Instrument Operator's Name” has been removed.

Latitude Longitude

GPS Quality Value: Type of GPS Quality Value: Date of Measurement: <M/d/yyyy>

2. Casing Tab

- Tab name has been changed to “Casing & Cementing Plan”
- Casing Program Table: A new column for casing “Grade” has been added.

Well/ Location Location Change/ As-Built GPS Formation/ Spacing Other Changes Reclamation Engineering/ Environmental Casing & Cementing Plan H2S Reporting BMP Submit Related Forms Well Logs

CASING PROGRAM (All depths in this table are measured depths.)

Casing Type	Size	Of	Hole	Size	Of	Casing	Grade	Wt/Ft	Csg/Lin Top	Setting Depth	Sacks Cement	Cmt Btm	Cmt Top
<input type="text"/>	<input type="text"/>	<input type="text"/>	/	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
n/a													

Add Remove

Form 4

3. Casing & Cementing Plan Tab

- A new “Potential Flow and Confining Formations” table has been added.

POTENTIAL FLOW AND CONFINING FORMATIONS								
Zone Type	Formation/Hazard	Top-Measured Depth	Top-true Vertical Depth	Btm-Measured Depth	Btm-True Vertical Depth	TDS(mg/L)	Data Source	Comments
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

4. Engineering & Environmental Tab

- A new “Bradenhead Plan” checkbox has been added.

Bradenhead Plan

5. Attachments

- “Engineering Assessment”, “Geology and Hydrogeology Assessment” and “Inclination Survey” attachment names have been added.

Form 5

1. Well Information Tab

- GPS Data: “Instrument Operator's Name” has been removed.

As Drilled Latitude: As Drilled Longitude:

GPS Data:

GPS Quality Value: Type of GPS Quality Value: Date of Measurement:

If Directional, footage at Top of Prod. Zone: Feet Feet

2. Casing Tab

- Casing Table: A new column for casing “Grade” has been added.
- The order of top and bottom of cement columns has been switched to match all other forms.

Casing Type	Size	Of	Hole	Size	Of	Casing	Grade	Wt/Ft	Csg/Lin Top	Setting Depth	Sacks Cement	Cmt Btm	Cmt Top	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	/	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
n/a														

Form 5

3. Casing Tab

- A calculated Bradenhead Pressure Action Threshold has been added.
- A casing centralization question has been added.

Bradenhead Pressure Action Threshold

psig

This threshold is calculated per Rule 308A.b.(2)G. If this well is located in a bradenhead test area (see Rule 207.b) per an Order of the Commission, it may be subject to a different threshold.

Does the casing centralization comply with Rule 317.g?

If "NO", provide details below.

Detail:

4. Attachments

- An "Inclination Survey" attachment name has been added.

Form 5

5. Submit Tab

- A certification statement has been added.
- A check box to autofill the submitter's name and email has been added.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Submitter's Name and Email are the same as CONTACT Name and Email?

Form 6

1. Well Information Tab

- GPS Data: “Instrument Operator's Name” has been removed.

GPS Data:

GPS Quality Value: Type of GPS Quality Value: Date of Measurement:

2. Casing History Tab/Table

- A new column for casing “Grade” has been added.
- A column has been added for “Csg/Lin Top” like other forms.

Well Info Zones **Casing History** Plugging Procedure Submit Attachments Review* General Comments/COA* Exceptions, Status, and NTOs*

Casing History

Casing Type	Size	Of	Hole	Size	Of	Casing	Grade	Wt/Ft	Csg/Lin Top	Setting Depth	Sacks Cement	Cmt Btm	Cmt Top	Status
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	/	<input type="text" value=""/>	<input type="text" value=""/>	/	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
n/a														

Form 6

3. Plugging Procedure Tab

- Surface Plug Setting Date has been added.
- Cut and Cap Date has been moved down one line.
- Calculated days from setting surface plug to capping well has been added.

Additional Plugging Information for Subsequent Report Only

Casing Recovered: ft of / inch casing

Surface Plug Setting Date

<M/d/yyyy> 15

Cut and Cap Date:

<M/d/yyyy> 15

Number of Days from Setting Surface Plug to Capping or Sealing the Well:

*Wireline Contractor:

*Cementing Contractor:

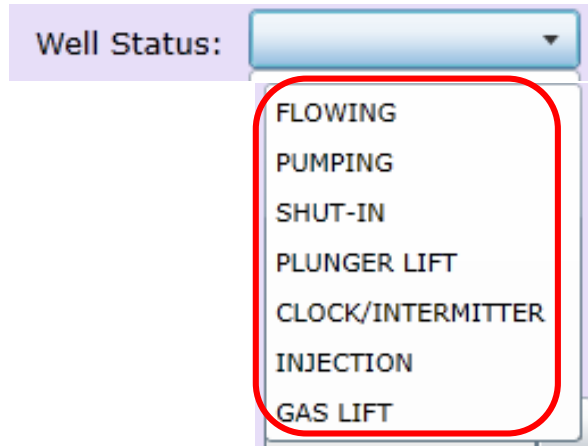
4. Attachments

- An “Inclination Survey” attachment name has been added.

Form 17

1. Section I Tab

- “Water Disposal Well” has been removed from the “Well Status” drop down.

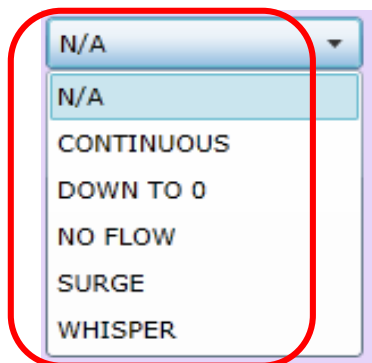


2. Bradenhead Tab

- “Sample Cylinder Number” has been removed.

3. Bradenhead Tab

- “Bradenhead Flow” drop down choices have changed.



Form 17

4. Bradenhead Tab

- “Bradenhead Fluid” column has been added.

Elapsed Time (Min:Sec)	Fm Tubing	Fm Tubing	Prod Casing PSIG	Intermediate Casing	Bradenhead Flow	Bradenhead Fluid
00 00:00					N/A	N/A
05 05:00					N/A	N/A
10						

5. Intermediate Tab

- “Sample Cylinder Number” has been removed.

6. Intermediate Tab

- “Intermediate Flow” drop down choices have changed.

- N/A
- N/A
- CONTINUOUS
- DOWN TO 0
- NO FLOW
- SURGE
- WHISPER

Form 17

7. Intermediate Tab

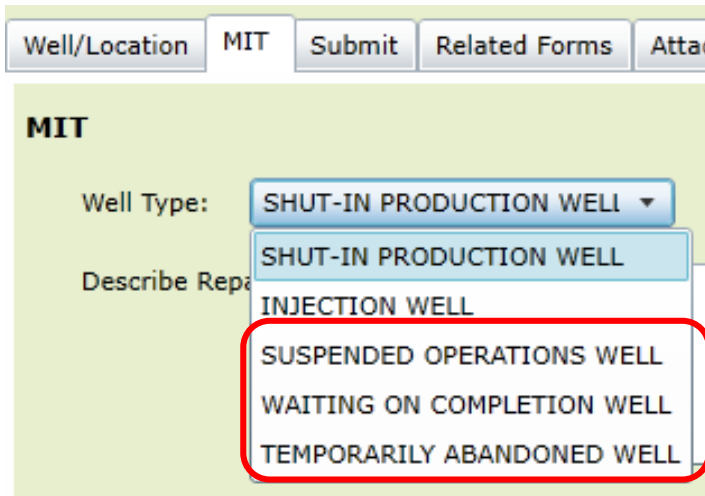
➤ “Intermediate Fluid” column has been added.

Elapsed Time (Min:Sec)	Fm Tubing	Fm Tubing	Prod Casing PSIG	Intermediate Casing	Intermediate Flow	Intermediate Fluid
00	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	N/A	N/A
05	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	N/A	N/A
10	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	N/A	N/A

Form 21

1. MIT Tab

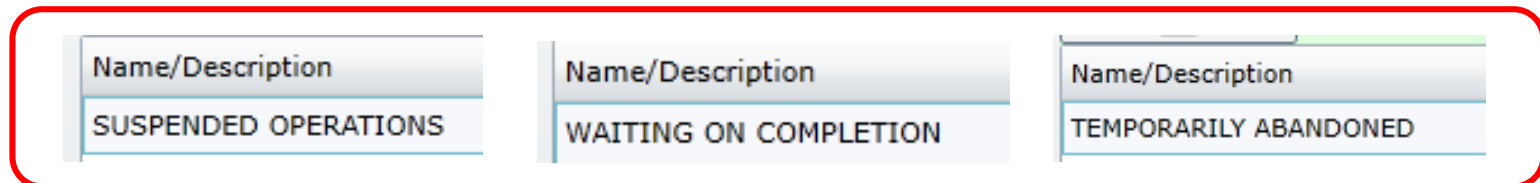
- Additional choices have been added to the “Well Type” drop down.



The screenshot shows the MIT tab interface. At the top, there are navigation buttons: "Well/Location", "MIT", "Submit", "Related Forms", and "Attach". Below these, the "MIT" section is highlighted. The "Well Type:" label is followed by a dropdown menu currently set to "SHUT-IN PRODUCTION WELL". The dropdown menu is open, showing a list of options: "SHUT-IN PRODUCTION WELL", "INJECTION WELL", "SUSPENDED OPERATIONS WELL", "WAITING ON COMPLETION WELL", and "TEMPORARILY ABANDONED WELL". The last three options are enclosed in a red rectangular box.

2. MIT Tab

- Additional choices have been added to the “Well Status During Test” drop down.



The screenshot shows three dropdown menu options for "Well Status During Test", each with a "Name/Description" header and a selected option below it. The options are: "SUSPENDED OPERATIONS", "WAITING ON COMPLETION", and "TEMPORARILY ABANDONED". All three options are enclosed in a red rounded rectangular box.

Form 33

1. Casing/Cementing Tab

- Casing Table: A new column for casing “Grade” has been added.

WELLBORE INFORMATION

CASING

Casing Type	Size	Of	Hole	Size	Of	Casing	Grade	W/Ft	Csg/Lin Top	Setting Depth	Sacks Cement	Cmt Btm	Cmt Top	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	/	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>