

Engineering Updates

Monthly Operator Meeting

November 16, 2021



COLORADO
Oil & Gas Conservation
Commission
Department of Natural Resources

Dave Andrews
Engineering Manager

New Offset Well Evaluation Template

Regulation \ Forms \ Permit to Drill \ Data Templates \ Offset Well Evaluation (revised 11/3/2021)

Data Templates

<u>Template Name</u>	<u>Instructions</u>	<u>Revision Date</u>
Directional Data	<i>i</i>	March 29, 2014
Docket Forms Template	<i>i</i>	July 14, 2019
Local Government Information Data Template Local Government Information Google Form	<i>i</i>	May 28, 2019
Offset Well Evaluation	<i>i</i>	November 3, 2021
Permit Priority List Template	<i>i</i>	August 23, 2019



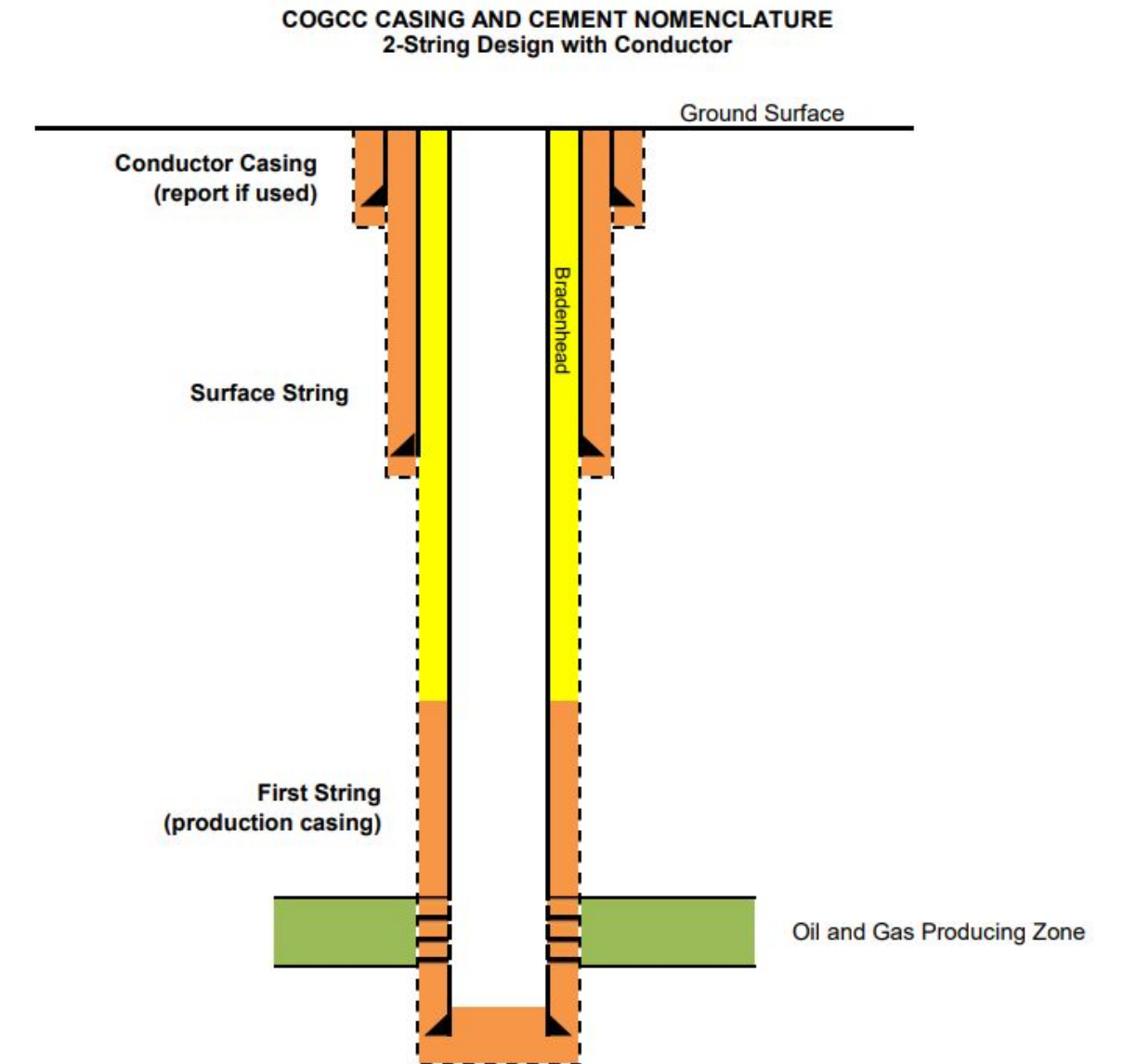
New Offset Well Evaluation Template

	A	B	C	D	E	F	G	H	I	J	K
1	PROPOSED HORIZONTAL WELL(S)										
2	Surface Location					Surface Location					
3	Well Name and Number		QQ-Section-Twp-Range			Well Name and Number			QQ-Section-Twp-Range		
4											
5											
6											
7	Operator's Wellbore Integrity Contact										
8	OFFSET WELL EVALUATIONS										
9	Offset Well API #	Offset Well Name	Shortest Horizontal Distance from Offset Well to any Proposed HZ Well	Offset Well Operator	Offset Well Spud Date	Offset Well Status	Offset Well Surface Casing Setting Depth	Depth of Deepest Water Well or Base of Fox Hills (DJ)	Offset Well Top of Production Casing Cement	Most Recent Surface Casing Pressure Reported	Required Comments
10											
11											
12											
13											
14											
15											



Wellbore Diagram Guidance

Regulation \ Form 5A, Completed Interval Report \ Form Instructions \ Casing and Cement Nomenclature Guidelines (revised 12/10/2013)



Form Instructions

Document Title	Revision Date
Casing and Cement Nomenclature Guidelines	December 10, 2013
Data for Common Horizontal Well Completion Types	September 22, 2016
Date of First Production and Date of First Sales	February 2, 2017



Wellbore Diagram Guidance

Regulation \ Form 5A, Completed Interval Report \ Attachment Guidance \ Suggested Wellbore Diagram Guidance (revised 10/20/2014)

Attachment Guidance

Suggested Wellbore Diagram Guidelines:

When is a wellbore diagram required per COGCC rules?

A wellbore diagram is required as an attachment to a Form 4, Sundry Notice, prior to a recomple or deepening (Rule 303.b.) and prior to performing a routine or planned casing repair (Rule 317.d.). Current and proposed wellbore diagrams are required as attachments to Form 33, Injection Well Permit Application. A wellbore diagram is required as an attachment to Form 17, Bradenhead Test Report, if not previously submitted or if the wellbore configuration has changed following a previous submittal (Rule 314). Wellbore diagram must be submitted upon request by COGCC staff as attachments to Form 5A, Completed Interval Report and Form 6, Well Abandonment Report.

What is the objective of a wellbore diagram?

A current wellbore diagram provides a visual representation of the existing wellbore configuration. Wellbore diagrams are particularly useful to COGCC staff during their review of proposed procedures which would alter the wellbore configuration. If an operator proposes to change the current wellbore configuration, then COGCC staff recommends submittal of current and proposed wellbore diagrams to expedite review and approval of proposed procedures.

What are COGCC staff's recommended items to include on a wellbore diagram?

A standard wellbore diagram should include all permanent downhole features and diagram label.

Diagram Label:

- Well Name and Number
- Current / Actual or Planned/Proposed
- Legal location (Qtr-Qtr, Section, Township, Range, and Principal Meridian)
- API Number
- County
- Date of the diagram

Permanent Downhole Features:

- Hole size
- TD of hole and PBTD
- Quantity of cement placed in hole for conductor, surface, intermediate, production casing and liners, top and bottom of cement, yield and slurry weight
- Casing: size, weight, top and depth, casing tools (DV)
- Perforations depth
- Formation tops
- KOPs for sidetracks

Future Permanent Downhole Features:

- Deepened TD
- Remedial cement placed in hole, top and bottom, quantity, yield, and slurry weight
- Depth of bridge plugs, retainers, packers, fish, and quantity of cement placed on top of these features, if any.
- Any changes to the casing configurations.
- New perforations

Injection wells should show the packer and tubing depths.

Plug and abandonment wellbore diagrams should show the location of plugs (top and bottom) and the number of cement sacks on top of mechanical plugs. Specify cement quantity, yield, and slurry weight for all open-hole cement plugs and cement plugs which are circulated or pumped through retainers.

Document Title

Revision Date

Suggested Wellbore Diagram Guidance

October 20, 2014



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Questions?



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