

3 de junio de 2022

Saludos,

Le escribimos para presentarnos y notificarle que Kerr McGee Oil & Gas Onshore, LP, una subsidiaria de Oxy USA Inc., está trabajando en el proceso de obtención de permisos a fin de conseguir la aprobación para desarrollar unos sitios de petróleo y gas natural en su comunidad. Estamos comprometidos a ser buenos vecinos al proporcionar información frecuente y transparente, y solicitar retroalimentación de su comunidad.

Adjunta, encontrará información sobre nosotros, el proceso de obtención de los permisos, detalles generales y específicos del sitio, un mapa del sitio propuesto y un calendario de desarrollo estimado. Además, encontrará recursos con más información sobre el proceso de obtención de permisos, incluido cómo proporcionar comentarios públicos sobre el permiso, que también se pueden encontrar en el sitio web de la Comisión de Conservación de Petróleo y Gas de Colorado (Colorado Oil and Gas Conservation Commission, COGCC) en [cogcc.state.co.us](http://cogcc.state.co.us).

Si desea hablar sobre los detalles de esta solicitud o solicitar una reunión para analizar los sitios propuesto de petróleo y gas, puede comunicarse con nosotros en cualquier momento.

Estamos comprometidos a llevar a cabo nuestro negocio de una manera que proteja a nuestros empleados y vecinos, proteja el medio ambiente, beneficie a las comunidades vecinas y fortalezca las economías locales.

Puede encontrar actualizaciones sobre este proyecto, así como otra información útil sobre el desarrollo de petróleo y gas en nuestro sitio web, [OxyColoradoStakeholder.com](http://OxyColoradoStakeholder.com). Agradecemos todas las preguntas y los comentarios, y esperamos tener noticias tuyas.

**Relaciones con las partes interesadas de Occidental**

1099 18th Street, #700

Denver, CO 80202

866.248.9577

[ColoradoStakeholder@oxy.com](mailto:ColoradoStakeholder@oxy.com)

[www.OxyColoradoStakeholder.com](http://www.OxyColoradoStakeholder.com)



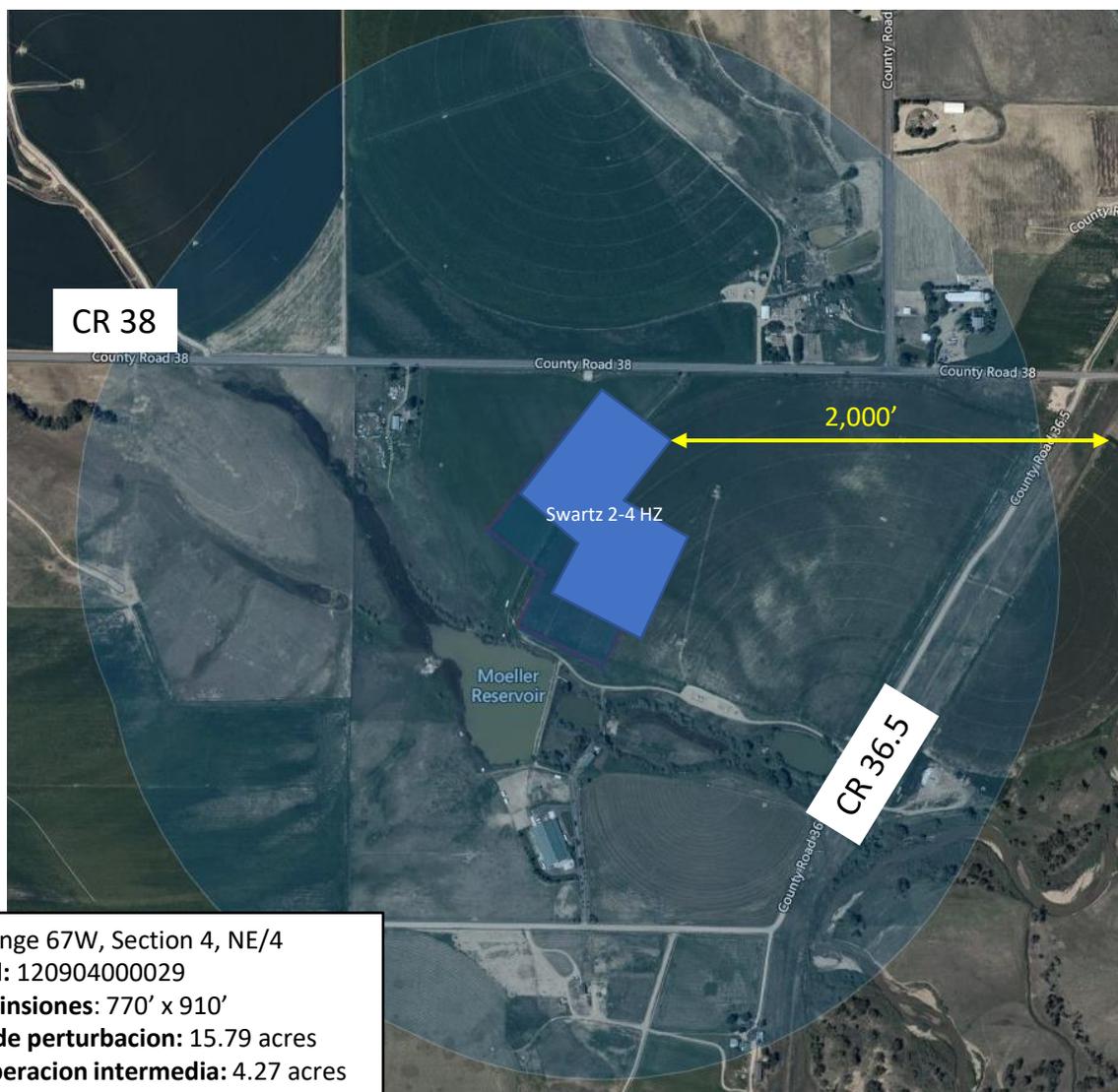
# Desarrollo de nueva energía

## Proceso de permisos

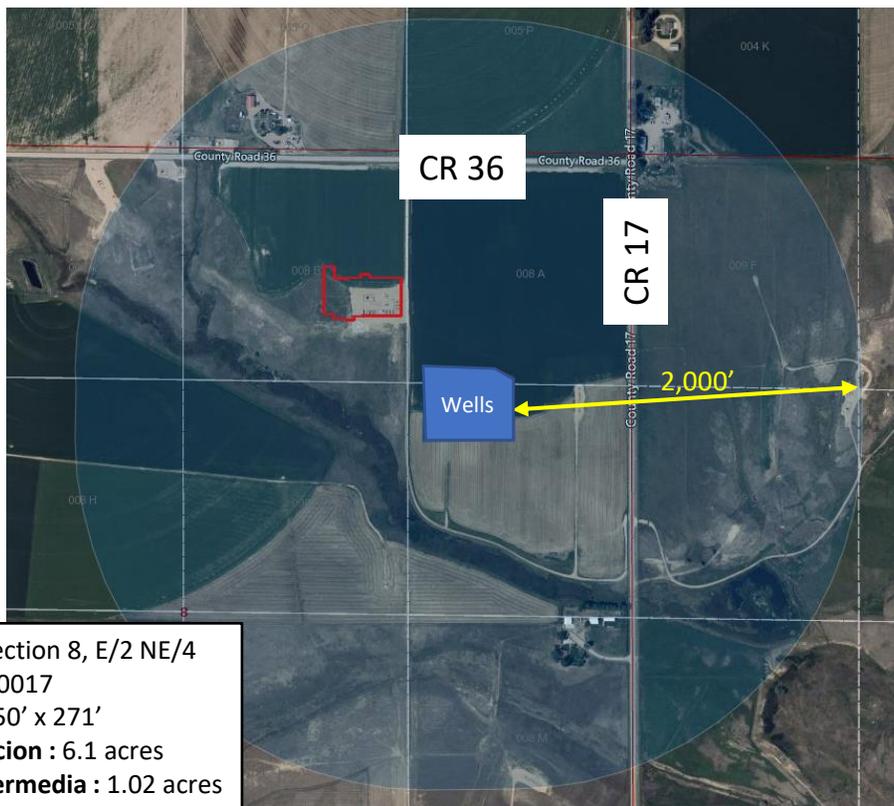
Este proyecto propuestos debe someterse a un proceso completo de obtención de permisos a nivel estatal y local. El proceso de obtención de permisos del estado de Colorado se conoce como Plan de desarrollo de petróleo y gas (Oil and Gas Development Plan, OGDG). Presentamos una solicitud de OGDG para desarrollar 32 pozos en cuatro sitios se llaman Swartz 2-4HZ, Berry Farms 8-8HZ wells y Berry Farms facility, y el Camenisch 10-33HZ, y la Comisión de Conservación de Petróleo y Gas de Colorado (COGCC) determinó que la solicitud contiene toda la información requerida; por lo tanto, está completa.

Desarrollaremos estos pozos de la manera más eficiente posible y trabajaremos con usted durante todo el proceso para proporcionar información actualizada. Para obtener actualizaciones del proyecto, consulte [OxyColoradoStakeholder.com/project-updates](http://OxyColoradoStakeholder.com/project-updates).

Sitio propuesto – Swartz 2-4HZ – 16 pozos – COGCC Numero de documento - 402958552

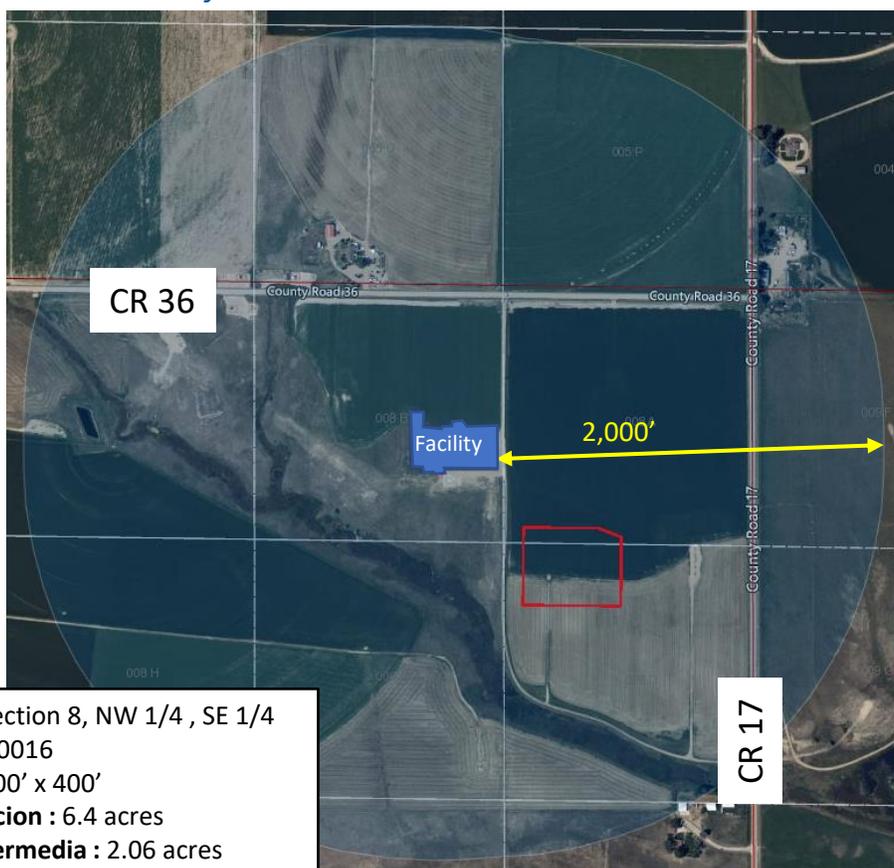


Berry Farms 8-8HZ Well Location – 8 pozos - COGCC Numero de documento 402958547



3N Range 67W, Section 8, E/2 NE/4  
**Parcel:** 120908000017  
 ~ **Diminsiones :** 450' x 271'  
**Area de perturbacion :** 6.1 acres  
**Recuperacion intermedia :** 1.02 acres

Berry Farms 8-8HZ Facility Location - COGCC Numero de documento 402958562



3N Range 67W, Section 8, NW 1/4 , SE 1/4  
**Parcel:** 120908000016  
 ~ **Diminsiones :** 500' x 400'  
**Area de perturbacion :** 6.4 acres  
**Recuperacion intermedia :** 2.06 acres

Camenisch 10-33HZ Location – 8 pozos –  
COGCC Numero de documento 402958629

4N Range 67W, Section 33, NW 1/4 , SE 1/4  
**Parcel:** 1059333000020  
~ **Diminsiones :** 400' x 830'  
**Area de perturbacion :** 12.8 acres  
**Recuperacion intermedia :** 3.32 acres



# Nuestro compromiso con usted



Nos esforzamos por hacer que nuestras actividades sean compatibles con la comunidad que nos rodea y utilizamos diversas técnicas de mitigación para reducir los impactos temporales asociados con el desarrollo. Nuestro equipo diseña cada sitio después de considerar cuidadosamente los atributos específicos del área. Aunque algunas de nuestras operaciones se realizan las 24 horas del día, los 7 días de la semana, nuestro objetivo es minimizar el trabajo no esencial durante la noche. Para cada plataforma de pozo, implementamos las siguientes estrategias para mitigar los posibles impactos:

## Nuestras mejores prácticas y medidas de mitigación

### Ruido



Utilizamos equipos de perforación mejorados con características de reducción de ruido y fractura hidráulica silenciosa. Estas características reducen el ruido de nuestras operaciones. Además de mitigar el ruido en la fuente, también instalamos paredes antirruído, según sea necesario, cuando operamos cerca de comunidades.

### Luz



Utilizamos luces de diodos emisores de luz (LED) orientadas estratégicamente lejos de los hogares, lo que hace que nuestras operaciones sean menos visibles para nuestros vecinos.

### Olor



Para contrarrestar cualquier posible olor a hidrocarburo durante nuestras operaciones de perforación, agregamos proactivamente un neutralizador de olores al sistema de fluidos de perforación.

### Polvo



Trabajamos para mitigar el polvo aplicando supresión de polvo a los caminos según sea necesario. Algunas de las técnicas que se utilizarán incluyen la instalación de almohadillas de rastreo y trampas de sedimentos, mantillo hidráulico o acumulamientos de tierra para hidrosiembra, siembra en suelos alterados y colocación y compactado de una capa de grava en las superficies del área de trabajo y las carreteras de acceso.



# Nuestro compromiso con usted

## Nuestras mejores prácticas y medidas de mitigación

### Plan de gestión del tráfico

Una parte del proceso integral de obtención de permisos es desarrollar un plan de gestión del tráfico. Esto incluye una ruta específica para todo el tráfico que entra y sale del sitio propuesto del proyecto. Para acceder a las ubicaciones, los conductores utilizarán las ruta del condado como se muestra abajo. Los límites de velocidad se reducirán a 10 mph en el camino de acceso y a 5 mph una vez que los vehículos lleguen a la plataforma/sitio del pozo.

Reducimos el tráfico lo más posible mediante la transferencia de petróleo y los sistemas de agua bajo demanda. El petróleo producido en nuestros sitios horizontales se saca del sitio a través de una tubería, lo que elimina la necesidad de camiones. Transportamos el agua utilizada en la fracturación hidráulica a través de nuestro innovador sistema de tuberías de agua bajo demanda, lo que reduce aún más el tráfico de camiones. Desde su creación en 2012, estas tecnologías nos han permitido eliminar 60 millones de millas de tráfico de camiones de las carreteras en el condado de Weld, lo que reduce las emisiones, el polvo, el desgaste de las carreteras y los inconvenientes para nuestros vecinos. Este sistema también reduce nuestra huella superficial al eliminar la necesidad de almacenar agua en tanques en el sitio durante la terminación del pozo. En estos sitios, estimamos que eliminaremos 137,979 viajes en camión.

### Mapa de ruta de acarreo



### Calendario estimado del proyecto y Trafico

Phase	Work Activity	Swartz			Berry Farms			Camenisch		
		Inicio estimado	Fin estimado	Trafico / Por Dia	Inicio estimado	Fin estimado	Trafico / Por Dia	Inicio estimado	Fin estimado	Trafico / Por Dia
1	Construcción de la plataforma	04/04/2023	19/05/2023	2,390 / 53	18/11/2022	02/01/2023	2,219 / 49	13/04/2023	28/05/2023	2,310 / 51
2	Perforación de superficie	19/05/2023	01/06/2023	3,400 / 262	02/01/2023	09/01/2023	2,464 / 352	28/05/2023	03/06/2023	2,464 / 411
3	Perforación horizontal	12/06/2023	02/10/2023	11,204 / 100	26/01/2023	24/03/2023	6,164 / 108	20/06/2023	05/08/2023	5,444 / 118
4	Terminación del pozo	25/07/2024	12/11/2024	15,865 / 144	02/05/2023	04/08/2023	8,016 / 85	15/06/2024	04/08/2024	7,181 / 144
5	Construcción de producción	01/03/2024	12/11/2024	1,010 / 4	02/10/2022	04/08/2023	1,147 / 4	01/02/2024	04/08/2024	489 / 3
6	Reclamación provisional	31/01/2025	01/04/2025	3,398 / 57	23/10/2023	22/12/2023	3,253 / 54	02/11/2024	01/01/2025	3,331 / 56

# Nuestro compromiso con usted

## Nuestras mejores prácticas y medidas de mitigación

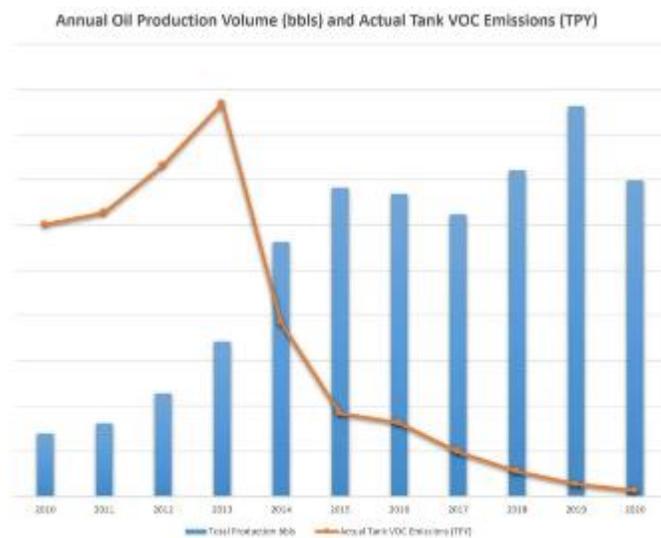
### Calidad del aire

Para garantizar su bienestar, el de su familia y el de quienes viven y trabajan cerca de nuestras operaciones, tomamos medidas para reducir las emisiones y monitorear la calidad del aire.

#### Reducción de emisiones

Para reducir las emisiones de gases de efecto invernadero y utilizar los valiosos recursos energéticos que producimos, seleccionamos equipos y diseñamos nuestros sitios y procedimientos para minimizar las emisiones. Como pueden ver en el gráfico, hemos tenido éxito en nuestros esfuerzos.

1. Occidental es la primera compañía estadounidense de petróleo y gas en respaldar la iniciativa [“Quema de rutina cero” del Banco Mundial para 2030](#). En Colorado, ya hemos logrado la quema de rutina cero.
2. Durante la perforación, más del 90 % de la energía proviene de motores de gas natural. Además, el equipo de bombeo de fracturación hidráulica funciona al 100 % con motores diésel de nivel IV. Los motores de nivel IV cumplen con los requisitos más recientes y más estrictos para motores diésel todoterreno según lo designado por la Agencia de Protección Ambiental (Environmental Protection Agency, EPA) de los EE. UU.
3. Nuestra innovadora planta de producción sin tanques reduce las emisiones al aire de varias maneras. Sin tanque significa que eliminamos los tanques de almacenamiento de petróleo, lo que reduce significativamente las emisiones de las instalaciones. El transporte de petróleo fuera del sitio a través de una tubería reduce aún más las emisiones asociadas con el tráfico de camiones. El diseño también utiliza aire comprimido para operar controladores neumáticos, que regulan la presión, el flujo, la temperatura y los niveles de líquido, en más del 90 % de nuestra producción. El uso de aire comprimido elimina las emisiones que generalmente provienen de los controladores neumáticos impulsados por gas natural.



### Protección de las aguas subterráneas

Realizamos muestreos de referencia de la calidad del agua y construimos sumideros de agua producida de doble pared y contención secundaria para operaciones. Los sensores entre las paredes de los sumideros de agua y la automatización adicional nos permiten monitorear los niveles de fluido y cerrar los pozos de forma remota si detectamos un problema.

#### Monitoreo de emisiones

Durante la perforación y las terminaciones, expertos independientes en calidad del aire ambiental realizan un monitoreo continuo de la calidad del aire. El Departamento de Salud Pública y Medio Ambiente de Colorado (Colorado Department of Public Health and Environment, CDPHE) y la Comisión de Conservación de Petróleo y Gas de Colorado (COGCC) aprueban nuestro programa de monitoreo del aire y reciben informes mensuales. Puede encontrar los informes mensuales de monitoreo creados por el consultor externo en la sección Actualizaciones del proyecto de nuestra página web.

Los expertos independientes en calidad del aire utilizan tecnologías tradicionales e innovadoras para agregar contexto y validar los datos recopilados. Las estaciones de monitoreo de aire incluyen una estación meteorológica, un analizador de hidrocarburos y tubos absorbentes de carbono. Además, los contenedores de aire colocados estratégicamente pueden complementar los datos de las estaciones de monitoreo de aire. Las muestras de aire se recolectan y analizan de acuerdo con los estándares de la EPA. Los resultados se comparan con los valores de las pautas de salud establecidos por el CDPHE.

Los datos de monitoreo del aire se recopilan continuamente y son monitoreados las 24 horas del día, los 7 días de la semana por nuestro Centro de Operaciones Integradas (Integrated Operations Center, IOC). Nuestro programa de monitoreo establece niveles de respuesta e investigación diseñados para proteger la salud, la seguridad y el bienestar de las comunidades, de nuestros empleados y del medio ambiente. Además, nuestro IOC que opera las 24 horas del día, los 7 días de la semana garantiza que las respuestas sean oportunas y efectivas.

Para monitorear las emisiones cerca de nuestras instalaciones de producción, contamos con un equipo interno de emisiones que realiza inspecciones de detección y reparación de fugas. Durante la fase de producción, personal capacitado inspecciona periódicamente cada instalación utilizando una cámara infrarroja portátil. También utilizamos drones equipados con cámaras infrarrojas y realizamos inspecciones auditivas, visuales u olfativas frecuentes para detectar y controlar las emisiones.





# Fases del desarrollo energético

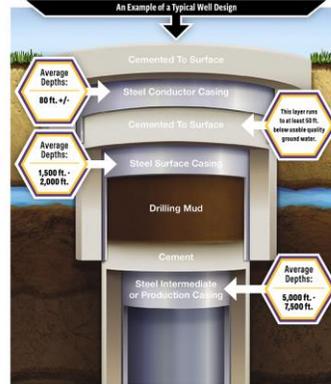
Para obtener más información, consulte [www.OxyColoradoStakeholder.com/Oil-and-Gas-101](http://www.OxyColoradoStakeholder.com/Oil-and-Gas-101)

## 1 Construcción de la plataforma 30-45 días por plataforma



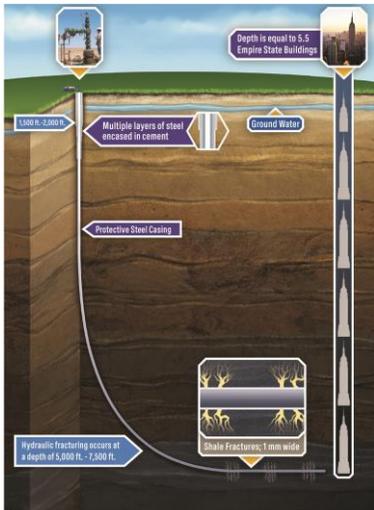
El equipo de construcción estándar prepara el sitio del pozo. Se puede instalar una pared para reducir o minimizar el ruido y la luz durante el desarrollo.

## 2 Conjunto de revestimiento de superficie 1-2 días por pozo



Con un equipo de perforación, se comienza el proceso de construcción subterránea instalando tuberías de acero y cemento (revestimiento de superficie) para proteger el agua subterránea. El conjunto de revestimiento de superficie se establece a, al menos, 50 pies por debajo del acuífero, que normalmente está a unos 1,000 pies debajo de la superficie.

## 3 Perforación horizontal 4-6 días por pozo



Llega un equipo de producción y perfora a una profundidad de 7,000 a 8,000 pies. La parte horizontal del pozo puede extenderse más de dos millas.

Se instalan capas adicionales de revestimiento protector de acero y cemento.

## 4 Terminación del pozo: 3 componentes 6-9 días por pozo



**Fractura hidráulica:** una tecnología segura y de alta ingeniería desarrollada en la década de 1940. El fluido de fracturación se bombea a alta presión por el pozo para crear fracturas delgadas en las rocas a más de una milla por debajo de la superficie de la tierra.

**Flujo de retorno:** Después de la fracturación, se abren los pozos y el petróleo y el gas fluyen hacia la instalación de producción móvil.

**Limpieza de pozos y tubos:** Limpiamos los pozos para eliminar el exceso de arena e instalar los tubos de producción.

## 5 Construcción de instalaciones de producción 30-45 días por instalación



Las instalaciones de producción se construyen adyacentes a los pozos para recolectar y separar el petróleo, el gas natural y el agua que se producen. La producción de las instalaciones es de 30 a 45 días de trabajo realizado en etapas durante un período de, aproximadamente, cuatro meses.

## 6 Recuperación del sitio del pozo 30 días por plataforma



Una vez que se completan las fases de desarrollo, se recupera la plataforma en la mayor medida posible para que coincida con el paisaje existente. Cada pozo producirá energía vital para la salud y el bienestar de nuestras comunidades durante las próximas décadas.

# Contactos



## Margaret Hess

Analista de relaciones  
con las partes interesadas  
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Oficina 720.929.3144  
[Coloradostakeholder@oxy.com](mailto:Coloradostakeholder@oxy.com)  
[www.OxyColoradoStakeholder.com](http://www.OxyColoradoStakeholder.com)

## Centro de Operaciones Integradas (IOC) de Oxy

970.515.1500  
Monitoreo en tiempo real de pozos, tanques  
de agua e instalaciones de producción  
Las 24 horas del día, los 365 días del año



## Departamento de Energía de Petróleo y Gas del Condado de Weld

970.400.3580 | [oged@weldgov.com](mailto:oged@weldgov.com)  
[www.weldgov.com/Government/Departments/Oil-and-Gas-Energy](http://www.weldgov.com/Government/Departments/Oil-and-Gas-Energy)

Para obtener información  
sobre Swartz 2-4HZ -WOGLA21-0027  
Berry 8-8HZ WOGLA21-0024 & 0025  
Camenisch 10-33HZ – WOGLA21-0026

## Comisión de Conservación de Petróleo y Gas de Colorado

303.894.2100  
[www.cogcc.state.co.us](http://www.cogcc.state.co.us)



# COGCC INFORMATION SHEET: PROCEDURAL STEPS FOR THE COMMISSION'S REVIEW OF OGDPS

(As required by COGCC Rule 303.e.(2).C)

## Why am I receiving this information sheet?

Oil and gas operating companies ("Operators") are required to obtain approval of an Oil and Gas Development Plan ("OGDP") from the Colorado Oil and Gas Conservation Commission ("COGCC") prior to undertaking any new operations such as drilling oil and gas wells or building oil and gas locations. When an Operator submits an OGDP application to the COGCC for consideration, and the application has been received and is deemed complete, COGCC staff begins a formal technical review of the application materials, and a public comment period starts.

COGCC has prepared this information sheet to inform the public of the procedural steps involved with the Director's and Commission's review of an OGDP, so that the public is informed and may participate in the review process if they choose. As part of the process, Operators must provide this information sheet to certain recipients, like yourself, that include mineral owners within the area of proposed development and all landowners, homeowners, commercial property owners, tenants, and other entities within 2,000 feet of an oil and gas location proposed by a pending OGDP application.

## What is an Oil and Gas Development Plan (OGDP)?

An OGDP is an Operator's plan to develop oil or gas resources ("minerals") from one or more surface locations. Operators prepare an OGDP and associated application materials, consistent with the requirements of COGCC Rule 303, and submit the plan for approval through the Commission's Hearings process. The application materials include a hearing application; one or more Form 2A, Oil and Gas Location Assessments; a Form 2B,

Cumulative Impacts Data Identification; and a Form 2C, OGDP Certification. The application may also include a request for the establishment of one or more Drilling and Spacing Units ("DSUs"). The OGDP, along with its associated supporting documents, will be heard at a public hearing where the Commission will make a final determination to approve or deny the OGDP application.

## What are the procedural steps involved with the Director's and Commission's review of Oil and Gas Development Plans?

1. **OGDP application is submitted:** Operator/Applicant submits a complete OGDP application with all supporting documents. The written portion of the application is submitted to the COGCC hearings unit via the eFilings system, and Forms 2A, 2B, and 2C are submitted to technical staff via the eForms system. (See Rules 303 & 304)
2. **OGDP application is received:** The COGCC hearings unit reviews the written hearing application, assigns a docket number for the OGDP, and provides public notice for the hearing. (See Rules 303 & 504)
3. **Completeness determination:** The COGCC technical staff and Director review the application materials for completeness. When deemed complete:
  - a. the OGDP application materials are posted on COGCC's website;
  - b. the Operator provides notice (including this information sheet) to relevant persons;
  - c. the public comment period begins;
  - d. the formal consultation period commences as applicable (including relevant/proximate local governments and other agencies such as Colorado Parks and Wildlife ("CPW") or Colorado Department

- of Public Health and Environment (“CDPHE”)); and
- e. COGCC staff begin their technical review of the OGDG components. (See Rule 303).
4. **Director’s review of application (technical review):** COGCC technical staff conducts the technical review of all application materials to ensure compliance with COGCC Rules, ensure the protection of public health, safety, welfare, the environment, and wildlife resources, and to evaluate potential Cumulative Impacts. The technical review includes analysis and assessment of:
- a. DSUs and protection of mineral owner’s correlative rights;
  - b. proposed surface locations and alternative locations;
  - c. downhole and engineering considerations;
  - d. best management practices;
  - e. public comments and recommendations provided by consulting agencies;
  - f. financial assurance; and
  - g. the need for conditions of approval. (See Rule 306)
5. **Director’s recommendation:** Once the Director has reviewed the application materials, the Director provides a written recommendation to the Commission in support of the approval or denial of the OGDG application. The Director will post the recommendation on COGCC’s website, notify relevant parties<sup>1</sup>, and submit it to the COGCC hearings unit in preparation for hearing. (See Rule 306.c)
6. **Commission’s consideration and final action (public hearing):** The Commission receives the

Director’s recommendation of the OGDG and begins review of the OGDG with support from the COGCC hearings unit. The review includes all supporting documents, written testimony, public comments, consulting agency recommendations, and Director’s recommendation. The Commission considers the OGDG at a public hearing, which may include oral testimony provided during the hearing. The Commission makes a final determination and presents its findings in a written order based on the evidence in the record; the Commission’s order to approve or deny the OGDG application is final. (See Rule 307)

### Where can I get additional information?

For more information about the COGCC administrative hearing process and OGDGs, please refer to the COGCC website at <http://cogcc.state.co.us>. You may also contact the COGCC at [dnr.ogcc@state.co.us](mailto:dnr.ogcc@state.co.us) or 303-894-2100. Please note, COGCC staff are not available to provide legal advice. COGCC recommends that you engage an attorney with knowledge of oil and gas matters to assist you with reviewing any offers you receive from an oil and gas operator or other person.

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<sup>1</sup> Parties who receive this information sheet will not necessarily be included in the notice of the Director’s recommendation. Parties who make a public comment on the Form 2A and include their email address will receive the notice of the Director’s recommendation.

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# COGCC INFORMATION SHEET: PUBLIC COMMENTS

(As required by COGCC Rule 303.e.(2)D)

## Purpose

This information sheet provides details on how to make public comments on an Oil and Gas Development Plan submitted to the Colorado Oil and Gas Conservation Commission via the Form 2A, Oil and Gas Location Assessment permit application.

## Why am I receiving this Information Sheet?

You have received this Colorado Oil and Gas Conservation Commission (“COGCC”) information sheet because an oil and gas operator (“the Operator”) has submitted an application for an Oil and Gas Development Plan (“OGDP”), and that application is under review by the COGCC. Per COGCC Rule 303.e.(1), the Operator is required to provide this information to you within seven days of the application materials being posted on the COGCC website.

COGCC Rule 303.d requires the COGCC to open a formal “public comment period” upon posting the OGDP application to our website. This public comment period allows the public to review OGDP applications and their components (i.e., proposed Oil and Gas Locations), and provide comments on those pending permit applications.

## How can I provide comments on pending permits in an OGDP?

Members of the public can access OGDP applications through the COGCC website to review permit information and provide comments. Public comments may be made directly on Form 2A, Oil and Gas Location Assessment permit applications (“Form 2A”) through the COGCC website.

1. Go to the COGCC website <https://cogcc.state.co.us>
2. On the green menu bar, click on the “Permits” page. This will take you to the “Drilling and Location Permits Search” tool for Pending Permits.



3. Under “Pending Permits”, find “Oil and Gas Location Assessment Permits (Form 2A)”. Select the county of interest from the dropdown menu and click “Go!”

**Pending Permits** (Filed ON or AFTER January 15th, 2021)

Oil & Gas Location Assessment Permits (Form 2A):

4. This will generate a table of pending applications and will indicate the status of the public comment

period for each permit within the COGCC review process.

5. Scroll through the list of pending permits to find the one you would like to review. You may wish to use “ctrl + f” to search for a specific document number, operator name, or location name.
6. To view the submitted Form 2A and its associated attached documents, click the “Location Name” link for any permit application.

### Pending Location Permits - All Counties

Doc Number (Public Comment Link)	Final day of Public Comment Period (Closes at Midnight)	Received	Location Name (Documents Link)	Status	Status Date
<a href="#">402165141</a>	03/11/2021	01/26/2021	<a href="#">Brian Test 4</a>	IN PROCESS	01/26/2021

7. To make a public comment on a specific permit application, click the “Doc Number” of the permit on which you wish to comment.

### Pending Location Permits - All Counties

Doc Number (Public Comment Link)	Final day of Public Comment Period (Closes at Midnight)	Received	Location Name (Documents Link)	Status	Status Date
<a href="#">402165141</a>	03/11/2021	01/26/2021	<a href="#">Brian Test 4</a>	IN PROCESS	01/26/2021

After clicking the Doc Number link, you will be taken to the Public Comment portal.

8. In the Public Comment portal, you may review the Form 2A application including the PDF and all attachments.

Selected Well / Location:

Document Number	Form Type	
402165141	02A	COL

9. To make a public comment, click the “Make Comment” button. A Form will open for you to provide your name, contact information, and your comment. Only the text in the Comment box will be made public; your contact information will be kept confidential by COGCC.

Please fill out the fields below in full to submit your comment.

Name:  Email:   
 Address:  Phone Number:   
 City:  State:  Zip:   
 Subject:   
 Comment:

10. Click the “Submit Comment” button when you are ready to submit your comment.

11. You may also view other public comments and read yours after it is posted by scrolling down on this page (see below about a delay in displaying comments).

### How long do I have to submit a comment on a permit?

The Public Comment Period begins once the COGCC Director determines the OGD application is complete and has been successfully submitted by the operator. The Director will approve the Form 2C, OGD Certification form, and post the OGD application on the website for public review.

In order to be considered by the Director and Commission during the review of the OGD, public comments must be received as follows:

1. Within 30 days from the date that the Director posts the OGD on the website, OR
2. Within 45 days if the OGD includes any proposed Oil and Gas Locations within 2,000 feet of a Residential Building Unit, High Occupancy Building Unit, or School Facility within a Disproportionately Impacted Community.

The final day for public comments can be found in the list of all pending permits:

Pending Location Permits - All Counties					
Doc Number (Public Comment Link)	Final day of Public Comment Period (Closes at Midnight)	Received	Location Name (Documents Link)	Status	Status Date
<a href="#">#02185141</a>	03/11/2021	01/26/2021	<a href="#">Brihan Test 4</a>	IN PROCESS	01/26/2021

When the Public Comment Period closes, the date will revert to read “Comments Closed”. The link to the public comment portal will remain active, but comments will no longer be accepted. You will still be able to view any public comments submitted for pending permits.

The Director may extend or reopen the public comment period per Rule 303.g, for up to an additional 30 days for a proposed OGD if the Director determines an extension or reopening is reasonable in order to obtain public input.

### What happens to my comment?

Your comment will become part of the public record of the application and will be reviewed by the applicant, COGCC staff, Director, and the Commission. COGCC staff may recommend permit conditions in response to comments. But, Staff does not routinely respond

individually to comments; instead, COGCC staff will work directly with the applicant to address the site-specific concerns expressed.

Submitted comments may not be immediately visible; it may be a few days before you see your comments posted. This delay allows COGCC supervisory staff to screen for offensive language prior to publication.

### What if I want to make my comment to the Commission?

COGCC Staff and the Director review every comment received on a Form 2A permit application. They review the site specific concerns against the totality of the application materials, including the alternative location analysis, cumulative impacts evaluation, and best management practices proposed by the applicant. When the Director makes a recommendation to the Commission to either approve or deny an OGD, that recommendation will include the consideration of the public comments received.

In their review of an OGD for a final determination at the administrative hearing, the Commission will have access to the entire record, including your public comment.

### Can I remain anonymous?

Yes. Only the “Comment” portion of your submitted comment will be made publicly viewable. Your name and contact information will be kept confidential, and will only be used by COGCC staff to contact you if necessary in the course of permit application review. If you choose to include your name and contact information in the body of your comment text, it will be part of the public record.

### Links

The following links provide guidance and additional information on providing Public Comments.

#### COGCC Permits Page:

<https://cogcc.state.co.us/permits.html#/permits>

Numerous helpful guidance documents can be found at the link on the COGCC Permits Page:

<https://cogcc.state.co.us/permits2.html#/permitshelp>

**Daily Activity Dashboard (DAD)** is another useful tool and can be used to access the public comment portal as well: <https://cogcc.state.co.us/dashboard.html>



Colorado Department of Natural Resources

## Information on Hydraulic Fracturing

What is hydraulic fracturing?

Hydraulic fracturing is the process of creating small cracks, or fractures, in deep, underground geological formations to liberate oil or natural gas and allow it to flow up the well for capture and use in heating our homes, fueling our cars and providing the electricity we all use for our televisions, computers and other devices.

To fracture the formation, fracturing fluids – mostly water and sand, with a small percentage of chemical additives – are injected down the well bore into the formation. The fluid, injected under pressure, causes the rock to fracture along weak areas.

The fluids that create the initial fractures are then mixed with thicker fluids that include sand and gelatin. These thicker fluids lengthen the openings in the rock. When the fractures are complete, and pressure is relieved, the fluids flow back up the well where they are captured and stored for later treatment or disposal.

As the fluids flow back up, sand remains in the fractures and props the rock open, maintaining

an open pathway to the well. This allows the oil and gas to seep from the rock into the pathway, up the well and to the surface for collection. In Colorado, the targeted formations for hydraulic fracturing are often more than 7,000 feet underground, and some 5,000 feet below any drinking water aquifers.

The process of hydraulic fracturing has been used for decades in Colorado, dating to the 1970s. Hydraulic fracturing continues to be refined and improved and is now standard for virtually all oil and gas wells in our state, and across much of the country. Hydraulic fracturing has made it possible to get the oil and gas out of rocks that were not previously considered as likely sources for fossil fuels.

**Common questions and answers about hydraulic fracturing.**

**Q:** *Can hydraulic fracturing open up pathways for oil and gas to reach ground water zones where water wells are producing?*

**A:** The distance between the oil and gas formation and the water formations is substantial. In the case of the Niobrara and the Fox Hills Aquifer in northeast Colorado, for example, the separation is about 5,000 feet – or roughly a mile – of bedrock.

**Q:** *How do you ensure the fracturing fluid, including the chemical additives, don't escape the oil and gas wellbore and impact nearby water wells?*

**A:** The COGCC requires all wells to be cased with multiple layers of steel and cement to isolate fresh water aquifers from the hydrocarbon zone. The steel casing and surrounding layers of cement protect the drinking water aquifers that the wellbore penetrates. Surface casing is required to extend 50 feet below the base of the deepest freshwater aquifer to seal it off from any possible

migration of fluids associated with oil and gas development. After it is determined that the well is capable of producing oil or natural gas, a production casing is set to provide an added layer of separation between the oil or natural gas stream and freshwater aquifer. A well survey called a cement bond log is performed to ensure the cement is properly sealed around the casing. Additionally, the COGCC requires that prior to hydraulic fracturing, the casing be pressure tested with fluid to the maximum pressure that will ever be applied to the casing. The well's construction design is reviewed by the professional engineering staff at the COGCC. Any flaw in the design will be corrected prior to issuing the required drilling permit.

**Q:** *What kinds of fluids do operators use to hydraulically fracture wells?*

**A:** Approximately 99.5% of the fracturing fluid volume is water and sand. The remaining portion is made up of a variety of chemicals. There are chemical additives used to reduce friction during pumping and prevent corrosion of the steel, biocide to kill bacteria in the water and surfactant to promote water flowback. The exact formulation may vary depending on the well and the objectives of the specific fracturing treatment. Fracturing chemicals are similar to other industrial chemicals which must be handled properly. For certain chemicals, safe work practices, proper site preparation, and attentive handling are required to ensure that employees, the public, and the environment are protected.

COGCC rules require that operators publicly disclose the ingredients and concentrations of fracturing chemicals for each well within 60 days of completion. That information is required to be posted on the website [www.fractfocus.org](http://www.fractfocus.org), which is searchable by county, operator and well. The website also provides information on chemicals used and their purpose.

**Q:** How are these fluids managed on the surface?

**A:** Large volumes of fluids are maintained on the drill site during the drilling and hydraulic fracturing process. Operators must take great care to prevent spills; operators are charged with protecting environmental resources and spills violate state law. The fluids are blended on site in equipment that adjusts the mix of sand, water and chemicals at different stages of the operation. The blended mix is sent to pumping units to raise the pressure and send the fluid down the well. Like spills, operators must prevent leaks. In addition to complying with state regulations, leaks and spills would create costly delays, providing additional incentive for operators to ensure all fittings and connections are pressure tested with clean water before any operations begin.

After the fracturing is completed, fluids return to the surface as "flowback." These fluids are now considered exploration and production waste and must be treated accordingly in compliance with state regulations. Production fluids, including oil and related substances, also rise to the surface. All of these fluids must be separated and contained in impervious vessels and waste fluids must either be recycled or properly disposed of under regulatory oversight.

**Q:** What can neighbors expect to experience during the fracture stimulation work?

**A:** After the drilling rig is moved off site, water tanks are brought to the site and water-hauling trucks arrive. The day the operation is to begin, the sand haulers, pump truck, blender and the control van arrive. The equipment will all be connected together and then connected to the well head with high pressure hoses. After testing the equipment, the actual fracture stimulation will begin. The operation may take several hours

to several days depending on the number of fracture zones. You will not feel the fracture of the rock because of its very low energy and the most noticeable occurrence during the operations.

**The COGCC has rules that are specific to hydraulic fracturing.** For more information on these rules, visit: <http://cogcc.state.co.us>

- Rule 205 Inventory chemicals
- Rule 205A Chemical disclosure
- Rule 317 Well casing and cementing: Cement bond logs
- Rule 317B Setbacks and precautions near surface waters and tributaries that are sources of public drinking water
- Rule 341 Monitoring pressures during stimulation
- Rule 608 Special requirements for coal-bed methane wells
- Rules 903 & 904 Pit permitting, lining, monitoring, & secondary containment
- Rule 906 Requires COGCC notify CDPHE and the landowner of any spill that threatens to impact any water of the state

*Where can I get further information?*

The FracFocus website – [www.fractofocus.org](http://www.fractofocus.org) – contains detailed explanations on how hydraulic fracturing works, how groundwater is protected, what chemicals are used, and how to find a well near you. The COGCC has additional information on its hydraulic fracturing information page at its website: <http://cogcc.state.co.us>

*What is the purpose of baseline water sampling?*

The purpose of baseline water sampling is to collect data before any drilling operations at individual well sites to demonstrate the pre-drilling conditions of a water well. This provides a reference point for future evaluations of any

suspected impacts by the drilling or hydraulic fracturing of oil and gas wells.

*How do I obtain baseline water samples?*

The COGCC provides baseline sampling on a case-by-case basis based on proximity to new or existing drilling activity. Please contact the COGCC at 303-894-2100.

The Colorado Oil & Gas Association (COGA), an industry trade group, has a voluntary baseline ground water quality sampling program <http://www.coga.org/index.php/BaselineWaterSampling>.

Under the COGA program, samples are collected from two existing groundwater features, such as wells or springs, within one-half mile of the surface location of new oil and gas well pads, or new wells on existing pads. These samples require landowner consent and will be collected before drilling begins. A second round of sampling will be collected from each feature within one to three years after drilling is completed. Results of all samples will be provided to landowners within three months of collecting the sample. The laboratory results will also be submitted to the COGCC for inclusion in a water quality database that will be available to the public through the COGCC website.

Water well owners can also either sample their own water wells or contract a qualified individual to collect samples for baseline testing. Most analytical laboratories can provide sampling along with analytical services. A list of laboratories offering these services can be found under Laboratories-Analytical or Laboratories-Testing in the phone directory.

The Colorado Department of Public Health and Environment also offers analytical laboratory services. Call 303-692-3090 for additional information. <http://www.cdph.state.co.us/lr/water.htm>



## COGCC INFORMATION SHEET: OGDP STATUS INFORMATION

(As required by COGCC Rule 303.e.(2).G)

### Why am I receiving this information sheet?

The Colorado Oil and Gas Conservation Commission (“COGCC”) prepared this information sheet to inform the public in the vicinity of a proposed Oil and Gas Development Plan (“OGDP”) how to access documents and view the status of proposed OGDPs through the COGCC’s website, eForms, and eFiling system. A review of public property records indicates that you may have an interest in lands that an oil and gas operator wishes to develop as part of an OGDP. Pursuant to Commission Rule 303.e.(2).G, operators are required to provide this information sheet to certain recipients near their development plans.

### What is an Oil and Gas Development Plan?

An OGDP is an operator’s plan to develop subsurface oil and gas resources (“minerals”) from one or more surface locations. An OGDP consists of a hearing application and associated permit materials that provide technical information. The Director (i.e. COGCC Staff) reviews the technical information and makes a recommendation to the Commission for the hearings application; the Commission has the ultimate authority on approval or denial of the OGDP.

### How do I view the status of the pending OGDP hearing application?

Members of the public may view the status of proposed OGDP applications through the COGCC eFiling System by creating an account in the Applications and Docket Portal, available on the “Hearings Page.”

1. From the COGCC homepage, click “Regulation” in the green menu bar, and then “Hearings” on the blue bar.
2. On the right-hand side of the Hearings page, under the Hearings eFiling System header, click on “Application and Docket Portal”.



3. Create a user account by clicking “Request Access to Account,” and completing the

required registration information. There may be a delay for processing following your request before you are granted access. Check your email for access approval.

4. Once registration is complete, access the Application and Docket Portal by entering your user name and password.
5. Search for the 9-digit docket number provided by the operator in their cover letter using the “Find Hearing Application by Docket Number” option at the bottom left of the page.



6. The general status of the docket is listed in the first column on the left, titled “Docket Status.”
7. Double click the docket search result to load the docket’s main page, which will show additional information, including the application type, status, assigned Hearing Officer, and applicant information.

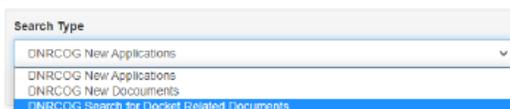
### Do I have to create an account to view documents?

No. You may view documents through the “Document Search” described below without creating an eFiling System account, but you will not be able to view the “status” of the docket through this method.

1. On the right-hand side of the Hearings page, under the Hearings eFiling System header, click on the “Document Search” link.



2. From the “Search Type” dropdown menu, select “DNRCOG Search for Docket Related Documents.”



- Input the docket number provided by the operator.

DNRCOG Docket Number

210012345

- If you don't have a docket number, or to view any OGD, scroll down to the "DNRCOG Application Type" dropdown menu and select "OIL & GAS DEVELOPMENT PLAN."

DNRCOG Application Type

ADDITIONAL WELLS
   
 COMPREHENSIVE AREA PLAN
   
 ENFORCEMENT
   
 EXCEPTION LOCATION
   
 GENERAL ADMINISTRATIVE
   
**OIL & GAS DEVELOPMENT PLAN**
  
 OTHER

- After step 3 or 4, scroll down and click the "Search" button at the bottom of the scroll bar.
- A list of all related documents will appear. Click on any item to view its contents.

### How do I view general forms, permits, and data regarding permits and OGDs?

You may use the Daily Activity Dashboard to access frequently requested oil and gas data at the county and state levels. The Daily Activity Dashboard is located in the right-hand corner of the COGCC homepage, and allows you to search and generate custom-made statistical charts, graphs, tables, and maps for information including pending permits, well status, production, well inspections, Notices of Alleged Violation, active notifications, and spills. The COGCC also provides access to pending and approved permits through its "Permits Search" and interactive map on the COGCC website.

To view the status of pending Form 2As (Oil and Gas Location Assessment Permits) through the "Permit Search" function, follow the steps outlined below:

- Click "Permits" in the green menu bar on the COGCC homepage. This will take you to the "Drilling and Location Permits Search" page.
- Under Pending Permits, find "Oil & Gas Location Assessment Permits (Form 2A)". Select "All Counties" or a specific county using the drop down menu and click "Go!".

Pending Permits (Filed ON or AFTER January 15th, 2021)

Oil & Gas Location Assessment Permits (Form 2A):

- A table will show all pending Form 2As currently under review by the COGCC.

[Click here to open page in a new tab/window](#)

Pending Location Permits - All Counties

Doc Number	Doc Number	Location Name (Documents Link)	Status	Status Date	Related Doc Number	Related Doc Number	Type of Permit	Doc Date	Section	Township	Range	County	Foreign Coll/Map Link
402 00 01	41020001	<a href="#">SARCO 01</a>	IN PROGRESS	01/15/2021			Final Location	01/15/2021	40	40	40	WYO	SEE WY01
402 00 01	41020002	<a href="#">SARCO 02 (Link)</a>	IN PROGRESS	01/15/2021			Final Location	01/15/2021	40	40	40	WYO	SEE WY02
402 00 01	41020003	<a href="#">SARCO 03</a>	IN PROGRESS	01/15/2021			Final Location	01/15/2021	40	40	40	WYO	SEE WY03
402 00 01	41020004	<a href="#">SARCO 04</a>	IN PROGRESS	01/15/2021			Final Location	01/15/2021	40	40	40	WYO	SEE WY04

- Clicking a "Doc Number" link will take you to the Public Comments portal for that pending permit.
- Clicking a "Location Name" link will take you to a list of documents related to that permit, including the Form 2A (as submitted by the operator) and supporting documents that are attached to the pending permit application.

### Can I view pending applications on the COGCC Map?

Yes. You may access the COGCC GIS Online Interactive Map by clicking "Maps" in the green banner on the COGCC homepage, then click "Click HERE to access interactive map". You may use the "address search" option to zoom to your address to see oil and gas activity near you. With the map zoomed to your area of interest, you may specify pending permits by checking the appropriate boxes on the left-hand menu.

- Permits
- Pending Well (Form 2) Permit
  - Approved Well (Form 2) Permit
  - Pending Location (Form 2A) Permit
  - Approved Location (Form 2A) Permit

To select and view a pending application, use the arrow tool to double-click on the pending icons to display the Application.

### Links

COGCC Homepage:

<https://cogcc.state.co.us/#/home>

Hearings Page:

<https://cogcc.state.co.us/reg.html#/hearings>

eFiling system help:

[http://cogcc/documents/reg/Hearings/External\\_E\\_filing\\_System\\_Users\\_Guidebook\\_20201109.pdf](http://cogcc/documents/reg/Hearings/External_E_filing_System_Users_Guidebook_20201109.pdf)

COGCC GIS Online Interactive Map help:

<http://cogcc/documents/about/Help/Search%20pending%20permits%20on%20the%20COGCC%20map.pdf>