

FORM  
2

Rev  
10/24

# State of Colorado

## Energy & Carbon Management Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203  
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

404211507

**(SUBMITTED)**

Date Received:

04/02/2026

### APPLICATION FOR PERMIT TO

Drill     Deepen     Re-enter     Recomplete and Operate    Amend

TYPE OF WELL OIL  GAS  COALBED  GEOTHERMAL  GEOLOGIC STORAGE

OTHER: \_\_\_\_\_

Refile

Sidetrack

TYPE OF GEOLOGIC STORAGE WELL SCIENCE  MONITORING

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Well Name: PARSNIP FED

Well Number: 20-7HZ

Please describe the reason for the scientific well and its potential future use:

\_\_\_\_\_

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP

ECMC Operator Number: 47120

Address: P O BOX 173779

City: DENVER

State: CO

Zip: 80217-3779

Contact Name: Loryn Spady

Phone: (720)9293504

Fax: ( )

Email: Loryn\_Spady@oxy.com

### FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

#### ECMC Financial Assurance

The Operator has provided or will provide Financial Assurance to the ECMC for this Well.

Surety ID Number (if applicable): 20010124

#### Federal Financial Assurance

In checking this box, the Operator certifies that it has provided or will provide at least this amount of Financial Assurance to the federal government for this Well. (Per Rule702.a.)

Amount of Federal Financial Assurance \$ \_\_\_\_\_

### WELL LOCATION INFORMATION

#### Surface Location

QtrQtr: NWSW    Sec: 20    Twp: 1N    Rng: 66W    Meridian: 6

Footage at Surface: 1982 Feet <sup>FNL/FSL</sup> FSL <sup>FEL/FWL</sup> 281 Feet FWL

Latitude: 40.034872    Longitude: -104.809481

GPS Data:    GPS Quality Value: 1.8    Type of GPS Quality Value: PDOP    Date of Measurement: 09/18/2024

Ground Elevation: 4945

Field Name: WATTENBERG    Field Number: 90750

Well Plan: is  Directional     Horizontal (highly deviated)     Vertical

If Well plan is Directional or Horizontal attach Deviated Drilling Plan and Directional Data.

**Subsurface Locations**

Top of Productive Zone (TPZ)

Sec: 30 Twp: 1N Rng: 66W Footage at TPZ: 2137 FSL 131 FEL  
Measured Depth of TPZ: 9818 True Vertical Depth of TPZ: 7579 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 25 Twp: 1N Rng: 67W Footage at BPZ: 2335 FSL 122 FWL  
Measured Depth of BPZ: 20218 True Vertical Depth of BPZ: 7641 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 25 Twp: 1N Rng: 67W Footage at BHL: 2333 FSL 46 FWL  
FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: WELD Municipality: N/A

Is the Surface Location of this Well in an area designated as one of State interest and subject to the requirements of § 24-65.1-108 C.R.S.? Yes

Per §34-60-106(1)(f)(I)(A) C.R.S and §37-90.5-107(2)(b)(I) C.R.S, the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas or Deep Geothermal Locations.

The Energy and Carbon Management Act and the Geothermal Resources Act provide that when "applying for a permit to drill," operators must include proof that they sought a local government siting permit and the disposition of that permit application, or that the local government does not have siting regulations.

Does the Relevant Local Government regulate the siting of Oil and Gas and Deep Geothermal Locations, with respect to this Location?  Yes  No

If yes, in checking this box, I hereby certify that an application has been filed with the local government with jurisdiction to approve the siting of the proposed oil and gas location.

The disposition of the application filed with the Relevant Local Government is: Approved Date of Final Disposition: 06/28/2025

Comments: WOGLA#: 1041WOGLA24-0036

## GEOTHERMAL

### Well Overview

The following questions determine informational requirements based on Well type:

Which type of Geothermal Well is this? Select one of the following:

Will this well be constructed using cementing methodologies other than those listed in Rule 408.f?

If Yes, what method will be used:

Please describe the cementing method to be used in detail:

### Geothermal Resource Units

Fill out the information below to submit an application for a Geothermal Resource Unit (GRU) as part of the current permit application. This may also be completed later using a Form 4 Sundry.

Will this Well be in an existing GRU?

Are you submitting your application for a new GRU as part of the current application?

### SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS OR DEEP GEOTHERMAL LOCATION

Surface Owner of the land at this Well's Oil and Gas Or Deep Geothermal Location:  Fee  State  Federal  Indian

Mineral Owner beneath this Well's Oil and Gas Or Deep Geothermal Location:  Fee  State  Federal  Indian

Surface Owner Protection Bond (if applicable): \_\_\_\_\_ Surety ID Number (if applicable): \_\_\_\_\_

### MINERALS DEVELOPED BY WELL

The ownership of all the minerals that will be developed by this Well is (check all that apply):

- Fee
- State
- Federal
- Indian
- N/A

## LEASE INFORMATION

Using standard QtrQtr, Section, Township, Range format describe one entire mineral lease as follows:

\* If this Well is within a unit, describe a lease that will be developed by the Well.

\* If this Well is not subject to a unit, describe the lease that will be produced by the Well.

(Attach a Lease Map or Lease Description or Lease if necessary.)

Township 1 North, Range 67 West, 6th P.M.  
Section 25: W/2 SW/4  
Weld County, Colorado

Total Acres in Described Lease: 80 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # \_\_\_\_\_

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 388 Feet  
Building Unit: 1392 Feet  
Public Road: 266 Feet  
Above Ground Utility: 253 Feet  
Railroad: 410 Feet  
Property Line: 213 Feet

### INSTRUCTIONS:

- Specify all distances per Rule 308.b.(1).
- Enter 5280 for distance greater than 1 mile.
- Building - nearest building of any type. If nearest Building is a Building Unit, enter same distance for both.
- Building Unit – as defined in 100 Series Rules.

## OBJECTIVE FORMATIONS

Objective Formation(s)	Formation Code	Spacing Order Number(s)	Unit Acreage Assigned to Well	Unit Configuration (N/2, SE/4, etc.)
CODELL	CODL	407-3816	2680	T1N-R66W-Sec 18: All, Sec 19: All, Sec 20: W2W2SW, Sec 29: W2W2W2, Sec 30: All and T1N-R67W-Sec 25: All

Federal or State Unit Name (if appl): \_\_\_\_\_ Unit Number: \_\_\_\_\_

## SUBSURFACE MINERAL SETBACKS

Enter 5280 for distance greater than 1 mile.

Is this Well within a unit? Yes

If YES:

Enter the minimum distance from the Completed Zone of this Well to the Unit Boundary: 122 Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well within the same unit permitted or completed in the same formation: 306 Feet

If NO:

Enter the minimum distance from the Completed Zone of this Well to the Lease Line of the described lease: \_\_\_\_\_ Feet

Enter the minimum distance from the Completed Zone of this Well to the Completed Zone of an offset Well producing from the same lease and permitted or completed in the same formation: \_\_\_\_\_ Feet

## Exception Location

If this Well requires the approval of a Rule 401.c Exception Location, enter the Rule or spacing order number and attach the Exception Location Request and Waivers. \_\_\_\_\_

## SPACING & FORMATIONS COMMENTS

## DRILLING PROGRAM

Proposed Total Measured Depth: 20294 Feet TVD at Proposed Total Measured Depth 7641 Feet

Distance from the proposed wellbore to nearest existing or proposed wellbore belonging to another operator, including plugged wells:  
 Enter distance if less than or equal to 1,500 feet: 324 Feet  No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H<sub>2</sub>S gas reasonably expected to be encountered during drilling operations at concentrations greater than or equal to 100 ppm? No If yes, attach an H<sub>2</sub>S Drilling Plan unless a plan was already submitted with the Form 2A per Rule 304.c.(10).

Will there be hydraulic fracture treatment at a depth less than 2,000 feet in this well? No

Will salt sections be encountered during drilling? No

Will salt based (>15,000 ppm Cl) drilling fluids be used? No

Will oil based drilling fluids be used? Yes

BOP Equipment Type:  Annular Preventor  Double Ram  Rotating Head  None

Beneficial reuse or land application plan submitted? Yes

Reuse Facility ID: \_\_\_\_\_ or Document Number: \_\_\_\_\_

## CASING PROGRAM

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top
CONDUCTOR	26	16	ASTM A53 B	36.94	0	80	64	80	0
SURF	12+1/4	8+5/8	L80	28	0	2131	700	2131	0
1ST	7+7/8	5+1/2	HCP110	17	0	20284	2303	20284	1000

Conductor Casing is NOT planned

## POTENTIAL FLOW AND CONFINING FORMATIONS

Zone Type	Formation /Hazard	Top M.D.	Top T.V.D.	Bottom M.D.	Bottom T.V.D.	TDS (mg/L)	Data Source	Comment
Groundwater	Fox Hills and Shallower	26	26	950	947	0-500	USGS	Depth from DWR
Confining Layer	Pierre Shale	951	948	1265	1256			
Groundwater	Upper Pierre Aquifer	1266	1257	2058	2001	1001-10000	Electric Log Calculation	Controlled by samples
Confining Layer	Pierre Shale	2059	2002	5488	4653			
Hydrocarbon	Sussex	5489	4654	5778	4869			Productive
Confining Layer	Pierre Shale	5779	4870	8876	7175			
Hydrocarbon	Niobrara	8877	7176	9665	7566			
Hydrocarbon	Codell	9672	7567	20294	7641			Base MD/TVD for target formation is BHL per ECOM

## OPERATOR COMMENTS AND SUBMITTAL

Comments

PLEASE ENSURE ALL CORRESPONDENCE ASSOCIATED WITH THIS PERMIT GOES TO ANALYST AND DJREGULATORY EMAIL ADDRESSES, AS LISTED ON THIS PERMIT.

Offset well buffer description for the subject well has been included on this permit for review as an attachment labeled "Other."

Beyond the Setback: This well has a bottom hole location beyond the unit boundary setback. The bottom of the completed interval will be within the unit boundary setback at 2335' FSL and 122' FWL of Section 25. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

Kerr-McGee Oil & Gas Onshore LP (KMOG) states that the following unleased mineral interest owners within the drilling and spacing unit have neither responded to nor actively rejected an offer to lease within 60 days of receipt pursuant to C.R.S. § 34-60-116(7)(d)(l): Amanda Shaffer and Brian Shaffer, Joint Tenants; Archdiocese of Denver; Beneranda Jaramillo; Buenaventuro J. Venegas and Gloria Venegas, JT; COPART, Inc.; Estefanita Archuleta Gutierrez a/k/a Estefanita A. Archuleta, a/k/a Estefanita Archuleta and David Raul Gutierrez a/k/a David R. Gutierrez a/k/a David Gutierrez in joint tenancy with right of survivorship; Henrietta Alatore; KS Enterprises I, LLC; KS Enterprises II, LLC; Rudy's Holding Company, LLC; Socorro Herrera and Leopoldo G. Herrera; Tanner Joseph Morgan; and, Taylor John Morgan. As such, no unleased mineral interest owners within the drilling and spacing unit have rejected an offer to lease, and a pooling Order is not required to comply with C.R.S. § 34-60-116(7)(e) for purposes of processing this permit application. A pooling Order is nonetheless required to pool the unleased mineral interests identified above. KMOG has filed a pooling application in Docket No. 251200271 specifically related to this Form 2. KMOG expects this pooling application to be approved by the Commission on 05/06/2026.

The nearest offset wellbore permitted or completed in the same formation is PARSNIP FED 20-6HZ, DOC ID: 404211504.

This application is in a Comprehensive Area Plan No CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name PARSNIP FED OGDP ID#: 489934  
Location ID: 491137

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

Signed: \_\_\_\_\_ Print Name: Loryn Spady

Title: Sr. Regulatory Analyst Date: 4/2/2026 Email: DJRegulatory@oxy.com

Based on the information provided herein, this Application for Permit-to-Drill complies with ECMC Rules, applicable orders, and SB 19-181 and is hereby approved.

ECMC Approved: \_\_\_\_\_ Director of ECMC Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

**API NUMBER**  
05

### CONDITIONS OF APPROVAL, IF ANY LIST

All representations, stipulations and conditions of approval stated in the Form 2A for this location shall constitute representations, stipulations and conditions of approval for this Form 2 Permit-to-Drill and are enforceable to the same extent as all other representations, stipulations and conditions of approval stated in this Permit-to-Drill.

COA Type	Description
0 COA	

## Operator Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	Anti-Collision: Kerr-McGee will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within one hundred fifty (150) feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators within one hundred fifty (150) feet prior to drilling.
2	Drilling/Completion Operations	Alternative Logging Program: One of the first wells drilled on the pad will be logged with open-hole resistivity log and gamma-ray log from the kick-off point into the surface casing. All wells on the pad will have a cement bond log with gamma-ray run on production casing (or on intermediate casing if production liner is run) into the surface casing. The horizontal portion of every well will be logged with a measured-while drilling gamma-ray log. The Form 5, Completion Report, for each well on the pad will list all logs run and have those logs attached. The Form 5 for a well without open-hole logs shall state "Alternative Logging Program - No open-hole logs were run" and shall clearly identify the type of log and the well (by API#) in which open-hole logs were run.

Total: 2 comment(s)

### ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
404331520	DEVIATED DRILLING PLAN
404331523	WELL LOCATION PLAT
404331524	DIRECTIONAL DATA
404557816	OFFSET WELL EVALUATION
404606011	OTHER

Total Attach: 5 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Returned to Draft: Per operator request	04/01/2026

Total: 1 comment(s)