

FORM
2

Rev
05/22

State of Colorado
Oil and Gas Conservation Commission

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



Document Number:

403460561

(SUBMITTED)

Date Received:

07/11/2023

APPLICATION FOR PERMIT TO

☒ Drill ☐ Deepen ☐ Re-enter ☐ Recomplete and Operate

Amend ☐

TYPE OF WELL OIL ☒ GAS ☐ COALBED ☐ OTHER: _____

Refill ☐

ZONE TYPE SINGLE ZONE ☒ MULTIPLE ZONES ☐ COMMINGLE ZONES ☐

Sidetrack ☒

Well Name: MOSER Well Number: 21-7HZ
Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP COGCC Operator Number: 47120
Address: P O BOX 173779
City: DENVER State: CO Zip: 80217-3779
Contact Name: Christina Hirtler Phone: (720)929-6301 Fax: ()
Email: christina_hirtler@oxy.com

FINANCIAL ASSURANCE FOR PLUGGING, ABANDONMENT, AND RECLAMATION

COGCC Financial Assurance

☒ The Operator has provided or will provide Financial Assurance to the COGCC 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: NENW Sec: 21 Twp: 3N Rng: 65W Meridian: 6

FNL/FSL

FEL/FWL

Footage at Surface: 443 Feet FNL 1665 Feet FWL

Latitude: 40.216956 Longitude: -104.671814

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: PDOP Date of Measurement: 03/03/2022

Ground Elevation: 4845

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: 16 Twp: 3N Rng: 65W Footage at TPZ: 190 FSL 1321 FWL
Measured Depth of TPZ: 7494 True Vertical Depth of TPZ: 7062 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)Sec: 4 Twp: 3N Rng: 65WFootage at BPZ: 194 FNL 1317 FWLMeasured Depth of BPZ: 22948True Vertical Depth of BPZ: 7089 FNL/FSL FEL/FWL**Bottom Hole Location (BHL)**Sec: 4 Twp: 3N Rng: 65WFootage at BHL: 194 FNL 1317 FWL

FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATIONCounty: WELDMunicipality: 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., the following questions pertain to the Relevant Local Government approval of the siting of the proposed Oil and Gas Location.

SB 19-181 provides 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. § 34-60-106(1)(f)(I)(A) C.R.S.

Does the Relevant Local Government regulate the siting of Oil and Gas 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: 09/29/2022Comments: WOGLA #: 1041WOPGLA22-0003**SURFACE AND MINERAL OWNERSHIP AT WELL'S OIL & GAS LOCATION**Surface Owner of the land at this Well's Oil and Gas Location: ☒ Fee ☐ State ☐ Federal ☐ IndianMineral Owner beneath this Well's Oil and Gas 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 3 North, Range 65 West, 6th P.M.

Section 18: ALL

Weld County, Colorado

Total Acres in Described Lease: 640

Described Mineral Lease is: ☒ Fee ☐ State ☐ Federal ☐ Indian

Federal or State Lease # _____

SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 3827 Feet
Building Unit: 3852 Feet
Public Road: 430 Feet
Above Ground Utility: 5280 Feet
Railroad: 5280 Feet
Property Line: 443 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.)
NIOBRARA	NBRR	407-3412	6160	T3N R65W; 04: All; 05: All; 08: All; 09: All; 16: All; 17: All; 18: All; 19: All; 20: W2W2, E2; 29: N2NE; 30: W2, NE

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: 190 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: 188 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: 22961 Feet

TVD at Proposed Total Measured Depth 7110 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: 83 Feet ☐ No well belonging to another operator within 1,500 feet

Will a closed-loop drilling system be used? Yes

Is H₂S gas reasonably expected to be encountered during drilling operations at concentrations greater than

or equal to 100 ppm? No If yes, attach an H₂S 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	A53B	36.94	0	80	64	80	0
SURF	13+1/2	9+5/8	L80	36	0	1701	660	1701	0
1ST	7+7/8	5+1/2	HCP110	17	0	22961	2628	22938	

☐ 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	17	17	562	562	501-1000	DWR	
Confining Layer	PIERRE SHALE	563	563	778	777			
Groundwater	UPPER PIERRE AQUIFER	779	778	1625	1612	1001-10000	Electric Log Calculation	
Confining Layer	PIERRE SHALE	1626	1613	4251	4227			
Hydrocarbon	SUSSEX	4252	4228	4619	4595			PRODUCTIVE
Confining Layer	PIERRE SHALE	4620	4596	6975	6881			
Hydrocarbon	NIOBRARA	6976	6882	0	0			

OPERATOR COMMENTS AND SUBMITTAL

Comments

Well name and API #:

o Moser 21-7HZ

o 05-123-52025

Explanation of the situation that has resulted in the need to sidetrack

o After tripping out of the hole on the Moser 21-7HZ at 11,520' MD, the bearing end of the mud motor, all mud motor internals, and drill bit were left downhole. Oxy is requesting permission to sidetrack around these components to avoid a fishing job.

Total measured depth reached in the wellbore being plugged back

o 11,520' MD

Casing set – size(s) and measured depth(s)

o 9.625" surface casing set at 1901' MD

Description of fish in the hole (if any) – including top and bottom measured depths

o 7.875" drill bit, 6.5" motor lower end, mud motor internals

o Bottom of fish: 11,520'

o Top of fish: 11,495'

Description of proposed plugs: setting measured depths, heights, and cement volumes

o Open hole sidetrack – no plugs are planned to be set

Type of cement to be used for all plugs, including slurry weight (ppg) and yield (cf/sk)

o Open hole sidetrack – no plugs are planned to be set

Measured depth of proposed sidetrack kick-off point

o 10,885' MD

Proposed objective formation(s) for sidetrack hole – new or same as the wellbore being abandoned

o Same as original, permitted wellbore – Niobrara C

BHL target for sidetrack hole – new or same as the wellbore being abandoned

o Same as original, permitted wellbore

This application is in a Comprehensive Area Plan No CAP #: _____

Oil and Gas Development Plan Name _____ OGDID#: _____

Location ID: 336383

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

Signed: _____

Print Name: Christina Hirtler

Title: Regulatory

Date: 7/11/2023

Email: christina_hirtler@oxy.com

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

COGCC Approved: _____ Director of COGCC Date: _____

Expiration Date: _____

API NUMBER

05 123 52025 00

Conditions Of Approval

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	

Best Management Practices

No BMP/COA Type

Description

--	--

Attachment List

Att Doc Num

Name

403460796	DRILLING PLAN
403460797	DIRECTIONAL DATA
403460799	WELLBORE DIAGRAM
403460801	OTHER

Total Attach: 4 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
--	--	---------------------

Total: 0 comment(s)