

FORM  
2  
Rev  
05/22

# State of Colorado Energy & Carbon Management Commission

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Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

403866969

Date Received:

02/10/2025

## APPLICATION FOR PERMIT TO

Drill       Deepen       Re-enter       Recomplete and Operate      Amend

TYPE OF WELL OIL  GAS  COALBED  OTHER: \_\_\_\_\_

Refile

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Sidetrack

Well Name: Mohee Fed 0297-17 Well Number: 29-14NH  
Name of Operator: ANSCHUTZ EXPLORATION CORP ECMC Operator Number: 3104  
Address: 555 17TH ST STE 2400  
City: DENVER State: CO Zip: 80202  
Contact Name: Jennifer Bland Phone: (303)298-1000 Fax: ( )  
Email: Jennifer.Bland@aec-denver.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): \_\_\_\_\_

#### 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 \$ 35000

### WELL LOCATION INFORMATION

#### Surface Location

QtrQtr: SENE Sec: 17 Twp: 2N Rng: 97W Meridian: 6

Footage at Surface: 2075 Feet <sup>FNL/FSL</sup> FNL 1303 Feet <sup>FEL/FWL</sup> FEL

Latitude: 40.143540 Longitude: -108.297412

GPS Data: GPS Quality Value: 1.7 Type of GPS Quality Value: PDOP Date of Measurement: 07/11/2023

Ground Elevation: 5991

Field Name: WHITE RIVER Field Number: 92800

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: 17 Twp: 2N Rng: 97W Footage at TPZ: 1980 <sup>FSL</sup> 2040 <sup>FWL</sup>

Measured Depth of TPZ: 11514 True Vertical Depth of TPZ: 10973 <sup>FNL/FSL</sup> <sup>FEL/FWL</sup>

Base of Productive Zone (BPZ)

Sec: 29 Twp: 2N Rng: 97W Footage at BPZ: 600 FSL 2040 FWL  
Measured Depth of BPZ: 23448 True Vertical Depth of BPZ: 10973 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 29 Twp: 2N Rng: 97W Footage at BHL: 600 FSL 2040 FWL  
FNL/FSL FEL/FWL

LOCAL GOVERNMENT PERMITTING INFORMATION

County: RIO BLANCO 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.? No

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: Waived Date of Final Disposition: 07/22/2024

Comments: Rio Blanco does not have siting regulations as to the placement of oil and gas infrastructure, however they do have a per well fee which AEC will remit prior to drilling.

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 Indian

Mineral 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.)

2N97W Section 17: All, Section 18: Lot 24

Total Acres in Described Lease: 675 Described Mineral Lease is:  Fee  State  Federal  Indian

Federal or State Lease # COC 060866

### SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 5280 Feet  
Building Unit: 5280 Feet  
Public Road: 5280 Feet  
Above Ground Utility: 5280 Feet  
Railroad: 5280 Feet  
Property Line: 4019 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			

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NIOBRARA	NBRR			

Federal or State Unit Name (if appl): Saddle (Deep) Unit Number: PENDING

### 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: 2130 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: 100 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: 23448 Feet

TVD at Proposed Total Measured Depth 10973 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: 861 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? No

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	X42	42.05	0	80		80	0
SURF	13+1/2	10+3/4	J55	40.5	0	3541	1320	3541	0
1ST	9+7/8	7+5/8	HCP110	29.7	0	10418	535	10418	5600
2ND	6+3/4	5+1/2	P110	20	0	23448	800	23448	9918

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	Wasatch/Unnamed Aquifer	0	0	660	660	501-1000	CGS	
Confining Layer	Surface Wasatch	660	660	2935	2906			
Hydrocarbon	Mesaverde	2935	2906	6105	6010	>10000	USGS	
Confining Layer	Cameo Coals	6105	6010	6282	6184			
Confining Layer	Rollins	6282	6184	7453	7331			
Confining Layer	Mancos Buck Tongue	7453	7331	7492	7369			
Confining Layer	Lloyd	7492	7369	7581	7456			
Confining Layer	Llyod Shale	7581	7456	7693	7566			
Hydrocarbon	Lower Llyod	7693	7566	7854	7723			No produced water sample only mudlogging
Confining Layer	Lower Llyod Shale	7854	7723	8043	7908			
Hydrocarbon	Castlegate	8043	7908	8324	8184			No produced water sample only mudlogging
Confining Layer	Mancos Blugate Tongue	8324	8184	8886	8734			
Hydrocarbon	Mancos B	8886	8734	9527	9362			No produced water sample only mudlogging
Confining Layer	Lower Mancos	9527	9362	10623	10435			
Hydrocarbon	Tow Creek	10989	10762	11383	10959	>10000	Groundwater Sample	
Hydrocarbon	Niorbrara	40623	10435	10989	10762	>10000	Produced Water Sample	

## OPERATOR COMMENTS AND SUBMITTAL

Comments

This well is committed to the Saddle (Deep) Federal Exploratory Unit which is pending a serial number for the BLM State Office. AEC expects to have this very soon.

Surface casing is the only string that AEC will run cement to surface. For the intermediate cement will be set -500-feet above the Cameo Coals and a CBL will verify this is achieved. For the production casing cement will be set at -500-feet above the intermediate casing string and CBL will verify this is achieved.

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

Oil and Gas Development Plan Name Mohee Fed 0297-17 OGD ID#: 486413

Location ID: 487080

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

Signed: \_\_\_\_\_ Print Name: Holly Hill

Title: Regulatory Support Date: 2/10/2025 Email: hhill@fieldinghillllc.com

Operator must have a valid water right or permit allowing for industrial use or purchased water from a seller that has a valid water right or permit allowing for industrial use, otherwise an application for a change in type of use is required under Colorado law. Operator must also use the water in the location set forth in the water right decree or well permit, otherwise an application for a change in place of use is required under Colorado law. Section 37-92-103(5), C.R.S. (2011).

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: 4/18/2025

Expiration Date: 06/11/2027

**API NUMBER**

05 103 12711 00

**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**

Drilling/Completion Operations	Operator will log one (1) additional well during the first rig occupation with open-hole resistivity log with gamma-ray log from the kick-off point into the surface casing for the stratigraphically deepest wells on each side of the pad for a total of two (2) wells logged.
Drilling/Completion Operations	<ol style="list-style-type: none"> <li>1. Submit Form 42 electronically to ECMC 2 business days prior to MIRU (spud notice) for the first well activity with a rig on the pad and provide 2 business day spud notice via Form 42 for all subsequent wells drilled on the pad.</li> <li>2. Operator shall provide cement coverage from the end of Intermediate Casing to a minimum of 500' above the Mesaverde Group. Verify intermediate casing cement coverage with a cement bond log.</li> <li>3. Operator shall provide cement coverage from TD to a minimum of 500' above the Niobrara Formation. Verify production casing cement coverage with a cement bond log.</li> <li>4. Oil based drilling fluid can only be used after all groundwater has been isolated.</li> <li>5. Operator shall comply with the most current revision of the Northwest Notification Policy.</li> <li>6. Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test:             <ol style="list-style-type: none"> <li>1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 150 psig is observed or if there is evidence of communication, Operator must contact ECMC engineering for approval prior to stimulation.</li> <li>2) A post-production test within 60 days after first sales</li> </ol> </li> </ol>

2 COAs

## Operator Best Management Practices

<b>No</b>	<b>BMP/COA Type</b>	<b>Description</b>
1	Planning	Alternative Logging Program: One of the first wells drilled on the pad will be logged with open-hole resistivity log with 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: 1 comment(s)

### ATTACHMENT LIST

<b>Att Doc Num</b>	<b>Name</b>
403866969	FORM 2 SUBMITTED
403867039	WELL LOCATION PLAT
403867042	OTHER
403867043	OTHER
403867044	MINERAL LEASE MAP
404019467	OffsetWellEvaluations Data
404075456	DIRECTIONAL DATA
404087211	DEVIATED DRILLING PLAN
404170755	OFFSET WELL EVALUATION

Total Attach: 9 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Complete.	03/07/2025
Permit	With operators concurrence -Corrected PDOP value from 1 to 1.7 to reflect Well location plat -Corrected lease description to lease that is under the surface. 2N97W Section 17: All, Section 18: Lot 24, COC 060866, 675 acres. -Corrected ground elevation to 5991 to reflect plat -Corrected minimum distance from the Completed Zone of this Well to the Unit Boundary from 2040 to 2130 measured to SW corner.	01/22/2025
Engineer	Federal minerals  Intermediate and production string TOC left blank. Specific TOC will be determined based on formation depths determined while drilling. See COA's for cement top requirements.  Niobrara adjusted to reflect total depth of wellbore in confining formation table  Updated Field to White River per ECMC GIS	12/18/2024
Engineer	emailed operator for WBDs to clarify casing table. Liner tops are set at previous casing shoe with no liner lap shown.  send back to draft on 12/16/24 for deviated drilling plan  Emailed operator to clarify TOC and long string vs liner and cement volumes  Emailed on 11/12 to ask about offset well review as it appears some wells are missing  Sent back to draft to have casing table corrected from liners to long strings and update cement tops accordingly	10/03/2024
OGLA	The Commission approved OGDG #486413 on June 12, 2024 for the Oil and Gas Location related to this Form 2. OGLA task passed.	08/06/2024

Total: 5 comment(s)