

FORM
2
Rev
10/24

State of Colorado Energy & Carbon Management Commission

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



Document Number:

404188091

(SUBMITTED)

Date Received:

05/06/2025

APPLICATION FOR PERMIT TO

Drill Deepen Re-enter Recomplete and Operate Amend

TYPE OF WELL OIL GAS COALBE GEOTHERMAL OTHER: OH Pilot Refile

ZONE TYPE SINGLE ZONE MULTIPLE ZONES COMMINGLE ZONES Sidetrack

Well Name: Mohee Fed 0297-17 Well Number: 20-14 NH (OH)

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: SWNE Sec: 17 Twp: 2N Rng: 97W Meridian: 6

Footage at Surface: 2032 Feet FNL 1344 Feet FEL

Latitude: 40.143659 Longitude: -108.297561

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: 2037 FNL 2590 FWL
Measured Depth of TPZ: 12732 True Vertical Depth of TPZ: 12629 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 17 Twp: 2N Rng: 97W

Footage at BPZ: 2037 FNL 2590 FWL

Measured Depth of BPZ: 12732

True Vertical Depth of BPZ: 12629 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 17 Twp: 2N Rng: 97W

Footage at BHL: 2037 FNL 2590 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 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: Other Date of Final Disposition: 05/02/2025

Comments: Rio Blanco County does not have siting regulations, meaning they do not regulate placement of oil and gas infrastructure.

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.)

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 # COC060866

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: 4047 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			

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: 5280 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: 939 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: 12732 Feet

TVD at Proposed Total Measured Depth 12629 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: 37 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? 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	14+3/4	10+3/4	J-55	45.5	0	3523	1965	3523	0
1ST	9+7/8	7+5/8	P-110	29.7	0	10272	525	10272	5560
OPEN HOLE	6+3/4				10272	12732	387	12732	10221

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/Unna med Aquifer	0	0	660	660	501-1000	USGS	
Confining Layer	Surface Wasatch	660	660	2922	2906			
Hydrocarbon	Mesaverde	2922	2906	6064	6010	>10000	USGS	
Confining Layer	Cameo Coals	6064	6010	6240	6184			
Confining Layer	Rollins	6240	6184	7401	7331			
Confining Layer	Mancos-Buck Tongue	7401	7331	7440	7369			
Confining Layer	Lloyd	7440	7369	7528	7456			
Confining Layer	Lloyd Shale	7528	7456	7639	7566			
Hydrocarbon	Lower Lloyd	7639	7566	7798	7723			No produced water sample, only mudlogging
Confining Layer	Lower Lloyd Shale	7798	7723	7985	7908			
Hydrocarbon	Castlegate	7985	7908	8265	8184			No produced water sample only mudlogging
Confining Layer	Mancos-Bluegate Tongue	8265	8184	8821	8734			
Hydrocarbon	Mancos B	8821	8734	8457	9362			No produced water sample only mudlogging
Confining Layer	Lower Mancos	9457	9362	10538	10435			
Hydrocarbon	Niobrara	10538	10435	10865	10762	1001-10000	Produced Water Sample	
Hydrocarbon	Tow Creek	10865	10762	11224	11121	>10000	Produced Water Sample	
Confining Layer	Wolf Mountain	11224	11121	11598	11495			
Confining Layer	Rangely	11598	11495	11830	11727			
Hydrocarbon	Carlile	11830	11727	12111	12008	>10000	Produced Water Sample	
Hydrocarbon	Frontier	12111	12008	12195	12092	>10000	Produced Water Sample	
Confining Layer	Mowry	12195	12092	12506	12403			
Hydrocarbon	Dakota	12506	12403	12578	12475	>10000	Produced Water Sample	
Confining Layer	Morrison	12578	12475	12732	12629			

OPERATOR COMMENTS AND SUBMITTAL

Comments

ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
404188318	OffsetWellEvaluations Data
404188342	DIRECTIONAL DATA
404192660	WELL LOCATION PLAT
404192665	DEVIATED DRILLING PLAN

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
		Stamp Upon Approval

Total: 0 comment(s)

