

FORM  
2  
Rev  
10/24

# State of Colorado Energy & Carbon Management Commission

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Document Number:

404381651

Date Received:

11/03/2025

## APPLICATION FOR PERMIT TO

Drill     Deepen     Re-enter     Recomplete and Operate    Amend

TYPE OF WELL OIL  GAS  COALBE  GEOTHERMAL  OTHER: \_\_\_\_\_

Refile

ZONE TYPE SINGLE ZONE  MULTIPLE ZONES  COMMINGLE ZONES

Sidetrack

Well Name: Outpost 33-8-23 Well Number: 1  
Name of Operator: CATAMOUNT ENERGY PARTNERS LLC ECMC Operator Number: 10464  
Address: 600 17TH STREET STE 1400S  
City: DENVER State: CO Zip: 80202  
Contact Name: Nolan Redmond Phone: (720)484-2347 Fax: ( )  
Email: nredmond@catamountep.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): 20240153

### 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: NENE Sec: 26 Twp: 33N Rng: 8W Meridian: N

Footage at Surface: 837 Feet FNL 945 Feet FEL

Latitude: 37.079980 Longitude: -107.680770

GPS Data: GPS Quality Value: 1.8 Type of GPS Quality Value: PDOP Date of Measurement: 10/31/2024

Ground Elevation: 6579

Field Name: IGNACIO BLANCO Field Number: 38300

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: 23 Twp: 33N Rng: 8W Footage at TPZ: 652 FSL 300 FEL

Measured Depth of TPZ: 7586 True Vertical Depth of TPZ: 6883 FNL/FSL FEL/FWL

Base of Productive Zone (BPZ)

Sec: 22 Twp: 33N Rng: 8W Footage at BPZ: 654 FSL 300 FWL  
Measured Depth of BPZ: 17548 True Vertical Depth of BPZ: 6883 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 22 Twp: 33N Rng: 8W Footage at BHL: 652 FSL 150 FWL  
FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: LA PLATA 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: In Process Date of Final Disposition: 04/03/2025

Comments: Permit is currently in process

## 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.)

E2 NE4 S26 & W2 NW/4 S25, T33N R8W

Total Acres in Described Lease: 160 Described Mineral Lease is:  Fee  State  Federal  Indian

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

## SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 1840 Feet  
Building Unit: 1931 Feet  
Public Road: 5280 Feet  
Above Ground Utility: 1336 Feet  
Railroad: 5280 Feet  
Property Line: 368 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.)
MANCOS	MNCS	112-309	2560	S23, S22, S26, S27 T33N R8W

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: 300 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: 1358 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: 17698 Feet TVD at Proposed Total Measured Depth 6883 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: 257 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? \_\_\_\_\_

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

## CASING PROGRAM

<u>Casing Type</u>	<u>Size of Hole</u>	<u>Size of Casing</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Csg/Liner Top</u>	<u>Setting Depth</u>	<u>Sacks Cmt</u>	<u>Cmt Btm</u>	<u>Cmt Top</u>
SURF	17+1/2	13+3/8	J55	48	0	700	865	700	0
1ST	12+1/4	9+5/8	L80	40	0	6623	570	6623	
S.C. 1.1	12+1/2	9+5/8	L80	40	0	5200	962	5200	
S.C. 1.2	12+1/2	9+5/8	L80	40	0	2800	1122	2800	
2ND	8+1/2	5+1/2	HCP-110	20	0	17698	1350	17698	

Conductor Casing is NOT planned

## POTENTIAL FLOW AND CONFINING FORMATIONS

<u>Zone Type</u>	<u>Formation /Hazard</u>	<u>Top M.D.</u>	<u>Top T.V.D.</u>	<u>Bottom M.D.</u>	<u>Bottom T.V.D.</u>	<u>TDS (mg/L)</u>	<u>Data Source</u>	<u>Comment</u>
Groundwater	San Jose	0	0	1507	1470	0-500	USGS	
Groundwater	Ojo Alamo	1507	1470	1779	1718	501-1000	USGS	WRI 4188
Confining Layer	Kirtland	1779	1718	2930	2768	1001-10000	USGS	WRS 95-4190
Hydrocarbon	Fruitland	2930	2768	2990	2823	1001-10000	USGS	WRI 4188
Hydrocarbon	Fruitland Coal	2990	2823	3210	3024	1001-10000	USGS	WRI 4188
Hydrocarbon	Pictured Cliffs	3210	3024	3498	3287	1001-10000	USGS	WRI 4188
Confining Layer	Lewis	3498	3287	4886	4553	0-500	USGS	WRI 4188
Hydrocarbon	Chacra	4886	4553	5281	4918	1001-10000	USGS	WRI 4188
Hydrocarbon	Cliffhouse	5281	4918	5745	5373	1001-10000	USGS	WRI 4188
Confining Layer	Menefee	5745	5373	5905	5533	1001-10000	USGS	WRI 4188
Hydrocarbon	Point Lookout	6295	5533	6295	5975	1001-10000	USGS	WRS 95-4190
Confining Layer	Mancos	6347	5975	7225	6773	1001-10000	USGS	WRS 95-4190
Hydrocarbon	Middle Mancos	7225	6773	17698	6883	1001-10000	USGS	WRS 95-4190

## OPERATOR COMMENTS AND SUBMITTAL

Comments

The nearest well belonging to another operator is the Docar 33-8-26 6 (05-067-09126) operated by Red Willow Production Company. The nearest well in the same formation (Mancos) is the Outpost 33-8-26 #1 (Form 2 Doc: 404328356).

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 654' FNL and 300' FWL of Section 22. The wellbore beyond the unit boundary setback will be physically isolated and will not be completed.

This application is in a Comprehensive Area Plan       No       CAP #: \_\_\_\_\_  
Oil and Gas Development Plan Name       Outpost 33-8       OGDP ID#:       491115        
Location ID:       311991      

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

Signed: \_\_\_\_\_ Print Name:       Nolan Redmond      

Title:       Geo/Eng Tech       Date:       11/3/2025       Email:       nredmond@catamountep.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:       11/14/2025      

Expiration Date:       10/21/2028      

<b>API NUMBER</b> 05 067 10067 00
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## 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.

<u>COA Type</u>	<u>Description</u>
Drilling/Completion Operations	Operator will ensure the wellbore beyond the unit boundary setback is physically isolated and is not completed. In the Operator Comments on the Form 5A the operator will (1) report the footages from the section lines of the bottom of the completed interval (2) describe how the wellbore beyond the unit boundary setback is physically isolated and (3) certify that none of the wellbore beyond the setback was completed.
Drilling/Completion Operations	Operator acknowledges the proximity of the listed well. Operator agrees to: provide mitigation option 1 or 2 (per the Offset Well Evaluation and Hydraulic Fracturing Operator Guidance Document) to mitigate the situation, ensure all applicable documentation is submitted based on the selected mitigation option chosen, and submit a Form 42 ("OFFSET MITIGATION COMPLETED") stating that appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.  067-05294 JACQUES *1
Drilling/Completion Operations	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. 2) Comply with Rule 408.i. and 408.e. Operator shall provide cement coverage from the end of Intermediate Casing (1st string) to a minimum of 500' above Fruitland, a minimum of 50' above and below Ojo Alamo. Verify intermediate casing cement coverage with a cement bond log or circulation to surface. 3) Comply with Rule 408.j. Operator shall provide cement coverage from TD to a minimum of 500' above Mancos. Verify production casing (2nd string) cement coverage with a cement bond log. 4) Oil based drilling fluid can only be used after all groundwater has been isolated.
Drilling/Completion Operations	Bradenhead tests shall be performed according to the following schedule and Form 17 submitted within 10 days of each test: 1) Within 60 days of rig release, prior to stimulation. If any pressure greater than 25 psig is observed or if there is evidence of communication, Operator must contact ECMC engineering for approval prior to stimulation. 2) Within 60 days after first sales, as reported on the Form 10, Certificate of Clearance.
4 COAs	

### Operator Best Management Practices

<u>No</u>	<u>BMP/COA Type</u>	<u>Description</u>
1	Drilling/Completion Operations	One of the initial wells Mancos Wells on the wellpad will be logged with an OH gamma-ray and resistivity from the base of the intermediate string to 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 will state "Alternative Logging Program - No open-hole logs were run" and will clearly identify the type of log and the well (by API#) in which open hole logs were run.

Total: 1 comment(s)

### ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
404381651	FORM 2 SUBMITTED
404393743	DIRECTIONAL DATA
404394673	WELLBORE DIAGRAM

404394676	DEVIATED DRILLING PLAN
404415865	WELL LOCATION PLAT
404437567	OFFSET WELL EVALUATION

Total Attach: 6 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Final Review	Changed the proposed TPZ and BPZ to reflect the targets on the Deviated Drilling Plan document provided by the operator.	11/14/2025
Permit	Final Review Complete.	11/07/2025
OGLA	The Commission approved OGDG #491115 on October 22, 2025 for the Oil and Gas Location related to this Form 2. OGLA task passed.	11/04/2025
Permit	Note to ECMC permitting: Add COA for BHL beyond unit setback.	10/28/2025
Permit	RTD for the following: 1) Missing well location plat attachment 2) Update form with new DSU order number information 3) Make any necessary changes as requested by ECMC engineering.	10/28/2025
Engineer	Emailed operator about surface casing, BOPE annular preventor, and option 1 or 2 for offset well. - Operator responded with deepened surface casing >10% TVD, stage cement. updated offset well evaluation data. TOC for production and intermediate casings were removed, please follow COA. 29 water wells within 1 mile, deepest 387', elevation 6628', - short surface casing. Within 150', shallow offsets. 067-05294 JACQUES *1 (cannot confirm that sufficient formation coverage exist, no CBL on file, communication between production and intermediate casing indicated on intermediate casing tests since 2023) Updated surface casing weight to 48 # per operator's request.	10/22/2025

Total: 6 comment(s)