

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:

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Date Received:

06/06/2025

## 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: State Huron 5-65 Well Number: 13-18-17 4AH  
Name of Operator: CRESTONE PEAK RESOURCES OPERATING LLC ECMC Operator Number: 10633  
Address: 555 17TH STREET SUITE 3700  
City: DENVER State: CO Zip: 80202  
Contact Name: Jeff Annable Phone: (303)312-8529 Fax: ( )  
Email: dlockiespermitting@civiresources.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): 20240061

#### 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: NESW Sec: 13 Twp: 5S Rng: 65W Meridian: 6

Footage at Surface: 1515 Feet <sup>FNL/FSL</sup> FSL 1727 Feet <sup>FEL/FWL</sup> FWL

Latitude: 39.613532 Longitude: -104.616656

GPS Data: GPS Quality Value: 1.5 Type of GPS Quality Value: PDOP Date of Measurement: 08/28/2024

Ground Elevation: 5893

Field Name: DJ HORIZONTAL NIOBRARA Field Number: 16950

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: 13 Twp: 5S Rng: 65W Footage at TPZ: 1040 <sup>FSL</sup> FSL 2475 <sup>FEL</sup> FEL  
Measured Depth of TPZ: 8162 True Vertical Depth of TPZ: 7803 <sup>FNL/FSL</sup> <sup>FEL/FWL</sup>

Base of Productive Zone (BPZ)

Sec: 17 Twp: 5S Rng: 64W Footage at BPZ: 1040 FSL 150 FEL  
Measured Depth of BPZ: 20988 True Vertical Depth of BPZ: 7803 FNL/FSL FEL/FWL

Bottom Hole Location (BHL)

Sec: 17 Twp: 5S Rng: 64W Footage at BHL: 1040 FSL 150 FEL  
FNL/FSL FEL/FWL

**LOCAL GOVERNMENT PERMITTING INFORMATION**

County: ARAPAHOE 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: Approved Date of Final Disposition: 06/30/2025

Comments: Arapahoe County permit approved; AEUSR; Case # AE24-001

## 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.)

Lease Attached

Total Acres in Described Lease: 21109 Described Mineral Lease is:  Fee  State  Federal  Indian  
Federal or State Lease # 1960.12

### SAFETY SETBACK INFORMATION

Distance from Well to nearest:

Building: 2458 Feet  
Building Unit: 2458 Feet  
Public Road: 5280 Feet  
Above Ground Utility: 571 Feet  
Railroad: 5280 Feet  
Property Line: 1515 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	535-1528	1600	T5S R65W: Sec 13 - E2; T5S R64W: Sec 17 - All, Sec 18 - 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: 150 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: 610 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: 20988 Feet

TVD at Proposed Total Measured Depth 7803 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: 326 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

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	36.95	0	80	105	80	0
SURF	13+1/2	9+5/8	j55	36	0	3325	1128	3325	0
1ST	8+1/2	5+1/5	p110	20	0	20988	3100	20988	

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	Denver	24	24	1018	1016	0-500	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Groundwater	Arapahoe	1018	1016	1611	1606	0-500	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Groundwater	Laramie-Fox Hills Form	1611	1606	2164	2156	0-500	Groundwater Atlas	USGS HA-646 (Robson & Romero, 1981)
Confining Layer	Pierre Formation	2164	2156	2714	2704			
Groundwater	Upper Pierre Aquifer	2714	2704	3275	3262	1001-10000	Electric Log Calculation	State of Colorado 'X' 1 (05-005-06610-0000)
Confining Layer	Base of Upper Pierre	3275	3262	4408	4390			
Hydrocarbon	Larimer ("Parkman") Sand	4408	4390	4492	4474			
Confining Layer	Pierre Formation	4492	4474	5328	5306			
Hydrocarbon	Terry ("Sussex") Sand	5328	5306	5593	5570			
Confining Layer	Pierre Formation	5593	5570	6227	6201			
Hydrocarbon	Hygiene ("Shannon") Sand	6227	6201	6608	6580			
Confining Layer	Pierre Formation	6608	6580	7803	7694			
Subsurface Hazard	Sharon Springs Mem	7803	7694	8162	7803			Sloughing Shales
Hydrocarbon	Niobrara	8162	7803	20988	7803			

## OPERATOR COMMENTS AND SUBMITTAL

Comments

The distance to the completed portion of the nearest well in the same unit on the "Spacing & Formations" tab is measured to the proposed State Huron 5-65 13-18-17 3BH. This distance was measured in 2-dimensional space.

The distance to the nearest well belonging to another operator on the "Drilling Plans" tab was measured to Hagar 5-64 15-16 1BHZ (API #05-005-07268). Since the completed interval is greater than 150' from the proposed wells completed interval a stimulation setback consent is not required.

Crestone Peak Resources Operating, LLC certifies that there are no unleashed mineral owners within the drilling and spacing unit, and therefore a pooling order is not required to comply with C.R.S. § 34-60-116(7)(e).

This application is in a Comprehensive Area Plan Yes CAP #: 221000282

Oil and Gas Development Plan Name STATE LA PLATA SOUTH OGDP OGDP ID#: 488767

Location ID: 437846

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

Signed: \_\_\_\_\_ Print Name: Jeff Annable

Title: Permitting Manager Date: 6/6/2025 Email: dlockiespermitting@civiresourc

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: 8/4/2025

Expiration Date: 04/29/2028

<b>API NUMBER</b> 05 005 07587 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.

<b>COA Type</b>	<b>Description</b>
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	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.j. and provide cement coverage from TD to a minimum of 500' above Niobrara. Verify coverage with a cement bond log.
Drilling/Completion Operations	Operator acknowledges the proximity of the listed non-operated wells. Operator assures that this offset list will be remediated per the Offset Well Evaluation and Hydraulic Fracturing Operator Guidance Document Operator using Option 3. Operator will submit a Form 42 ("OFFSET MITIGATION COMPLETED") stating what appropriate mitigation occurred and that it has been completed, prior to the hydraulic stimulation of this well.  005-06572 NE Lowry State #5-17 Chandler & Associates LLC 005-06590 Airline Road State #15-12 Chandler & Associates LLC 005-06595 State of Colorado "W" #5 Central Resources Inc. 005-06610 State of Colorado "X" #1 Texaco Exploration and Production Inc 005-06642 State of Colorado "Z" #1 Texaco Exploration and Production Inc 005-06772 Burlington Northern State #1 Summit Oil Co 005-06988 State-Eagle #17-1 KP Kaufman Company Inc
Drilling/Completion Operations	Per COGCC Order 1-232, 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 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation. 2) If a delayed completion, a second test is required between 6-9 months after rig release and must be conducted prior to stimulation. If any pressure greater than 200 psi is observed or if there is continuous flow, Operator must contact COGCC engineering for approval prior to stimulation. 3) A post-production test 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 first wells drilled on the pad during the first rig occupation will be logged with open-hole resistivity log with gamma-ray log from the kick-off point into the surface casing for one of the stratigraphically deepest wells on the pad. 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.
2	Drilling/Completion Operations	Operator will perform an anti-collision evaluation of all active (producing, shut in, or temporarily abandoned) offset wellbores that have the potential of being within 150 feet of a proposed well prior to drilling operations for the proposed well. Notice shall be given to all offset operators prior to drilling.

Total: 2 comment(s)

### ATTACHMENT LIST

<u>Att Doc Num</u>	<u>Name</u>
404125959	FORM 2 SUBMITTED
404143044	OIL & GAS LEASE
404143110	DEVIATED DRILLING PLAN
404156469	OffsetWellEvaluations Data
404230717	DIRECTIONAL DATA
404231659	WELL LOCATION PLAT
404304094	OFFSET WELL EVALUATION

Total Attach: 7 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Final Review Complete.	08/01/2025
OGDP Approval	The Commission approved OGDG #488767 on April 30, 2025 for the Oil and Gas Location related to this Form 2. OGLA task passed.	07/16/2025
Permit	Emailed the SLB to notify them of this pending application. State Land Board has no concerns with this application. The distance to the nearest well belonging to another operator corrected from Hagar 5-64 15-16 1 CHZ to 1 BHZ. The Disposition of the application filed with the Relevant Local Government corrected from In-Process to Approved with operator concurrence; Arapahoe County Permit approved 6/30/2025 (AEUSR; Case # AE24-001).Permitting Review Complete.	07/14/2025

Total: 3 comment(s)