

Idaho Department of Lands
Director's Office
300 N. 6th Street, Suite 103
P.O. Box 83720
Boise, ID 83720-0050
Phone (208) 334-0200



Dustin T. Miller, Director
Working Lands, Trusted Stewards

**Idaho Oil and Gas
Conservation Commission**
Ray Hinchcliff, Chair
Jennifer Riebe, Vice Chair
Marg Chipman
Marc Haws
Mike Lyden
Shannon Chollett, Secretary

September 12, 2025

Bronson Barrett
Cascade Exploration, LLC
c/o Koloma
1900 Grant Street, Suite 1250
Denver, Colorado 80203
via email: bbarrett@koloma.com

Re: Application for 2D Seismic Permit, Canyon and Payette Counties Idaho

Dear Mr. Barrett:

The Idaho Department of Lands (IDL) has completed our review of this Application for 2D Seismic Permit submitted July 25, 2025 to conduct seismic operations for natural hydrogen exploration in Canyon and Payette Counties. Enclosed is a copy of the approved permit.

Please ensure that all operations are conducted in accordance with the requirements of IDAPA 20.07.02 Rules Governing Conservation of Oil and Natural Gas in the State of Idaho. Please submit all reports as required under IDAPA 20.07.02.100.07 to James Thum, Oil & Gas Program Manager at jthum@idl.idaho.gov.

The potential for fires in the state of Idaho are always a possibility, especially in the drier summer and autumn months. To prevent human-caused fires, please review the guidelines on the Idaho Department of Lands website for operating vehicles and equipment in a safe manner:

<https://www.idl.idaho.gov/fire-management/fire-prevention-and-preparedness/prevent-unwanted-human-caused-wildfires/>

This permit will be administered by IDL staff from the Southwest Area office and the Boise Director's office who will be inspecting the operations. Please contact James Thum at 208-334-0243 if you have any questions.

Sincerely,

Shannon Chollett
Division Administrator
Minerals, Navigable Waters, Oil & Gas

Idaho Department of Lands

Enc.\1 Application for Seismic permit dated 7/25/2025, approved 9/12/2025

cc: Lauren Morahan, Senior Regulatory & Permitting Coordinator, Koloma
Robert Beal, Vantage Geophysical Corporation
James Thum, Idaho Department of Lands
Derek Kraft, Idaho Department of Lands
Dan Lister, Canyon County
Patti Nitz, Payette County



RECEIVED

By ID Dept of Lands at 1:44 pm, Jul 25, 2025

Idaho Department of Lands
Idaho Oil and Gas Conservation Commission



Application for Seismic Permit
IDAPA 20.07.02.100 Idaho Code § 47-316 (3)

This form is three (3) pages, please read and complete all sections.

Application (Surface Area and Fee Amount) to: ☐ <12 miles 2D survey (\$800)
☐ >12, <24 miles 2D, <72 miles 3D (\$2,000) ☒ >24 miles 2D, >72 miles 3D (\$2,500)

Date of application: July 25, 2025

Company (Geophysical Operations)

Name: Vantage Geophysical Corporation
Address: 1021 Blackhaw St.
City: Houston State: TX Zip Code: 77079
Local Contact: Robert Beal Telephone: 713-751-9280
Email: robert.beal@vantagegeo.com

Client Company

Name: Cascade Exploration, LLC
Address: 3597 East Monarch Sky Land F-240
City: Meridian State: ID Zip Code: 83646
Local Contact: Bronson Barrett Telephone: 720-339-6737
Email: bbarrett@koloma.com

Plugging Contractor (If different than applicant)

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Local Contact: _____ Telephone: _____
Email: _____

Description of Plugging Contractors identifying mark on hat or non-metallic plug used for
plugging: _____

Description Of Seismic Program Parameters

Section: See attached maps Township: multiple - see attached maps Range: multiple - see attached maps

(or block and survey)

(If more than one (1) township, please attach complete description)

Type (2D, 3D) and Energy sources used (vibroseis, shot holes, both, other, etc.) and size and strength of charges. For vibroseis sources, include the number of vehicles in the source array and the dynamic output in pounds (maximum) of each: This will be a 2D seismic survey.
There will only be vibroseis energy sources used for this 2D seismic survey. The vibroseis vehicles used will be an ATS60 (max dynamic output is 42,000 lbs) and an EV2 (max dynamic output is 18,200 lbs).

Approximate number, depth and location of seismic holes or source points (number per mile):
The vibroseis source points will occur every 45 feet, which equates to 120 source points per mile.

Please attach Source and Receiver location map to application (scale – 1 inch/2000 feet or 1:24000):

Maps and shapefiles detailing the survey route, source point locations and receiver locations have been included with the submission of this permit.

Anticipated Date Work will Start: August 21, 2025

Anticipated Date Work will be Completed: October 31, 2025

Anticipated Plugging Date: NA

Anticipated Reclamation Date: October 31, 2025

Description of Hole Plugging Procedure:

NA

Description of Surface Reclamation Procedure:

NA

Other required information

- ☒ Proposed route of seismic line on topo map or recent air photo base (attach to application) with surface waters, roads, section lines, additional area for alternative routing (must be within ½ mile), and labeled seismic line for future reference.
- ☒ Minimum bond of ten thousand dollar (\$10,000), or actual cost (to be attached).
- ☐ Minimum additional five thousand dollar (\$5,000) plugging bond, if separate plugging contractor is used (to be attached).
- ☒ Legal Notice Published in Newspaper of General Circulation
- ☒ Land Owner Notifications Sent

CERTIFICATE: I, the undersigned, state that I am the Senior Landman
of Cascade Exploration, LLC (company) and that I
am authorized by said company to make this application and that this application was prepared
under my supervision and direction and that the facts stated herein are true, correct and
complete to the best of my knowledge.

Signature: Bronson Barrett Date: 7/25/25

NOTICE: Before sending in this form, be sure that you have given all information requested:

Compliance with IDAPA 20.07.02.100 is required. Please read these rules for specific details on charge weights, distances from structures, and other operational requirements. Reporting to IDL is required every thirty (30) days and upon project completion.

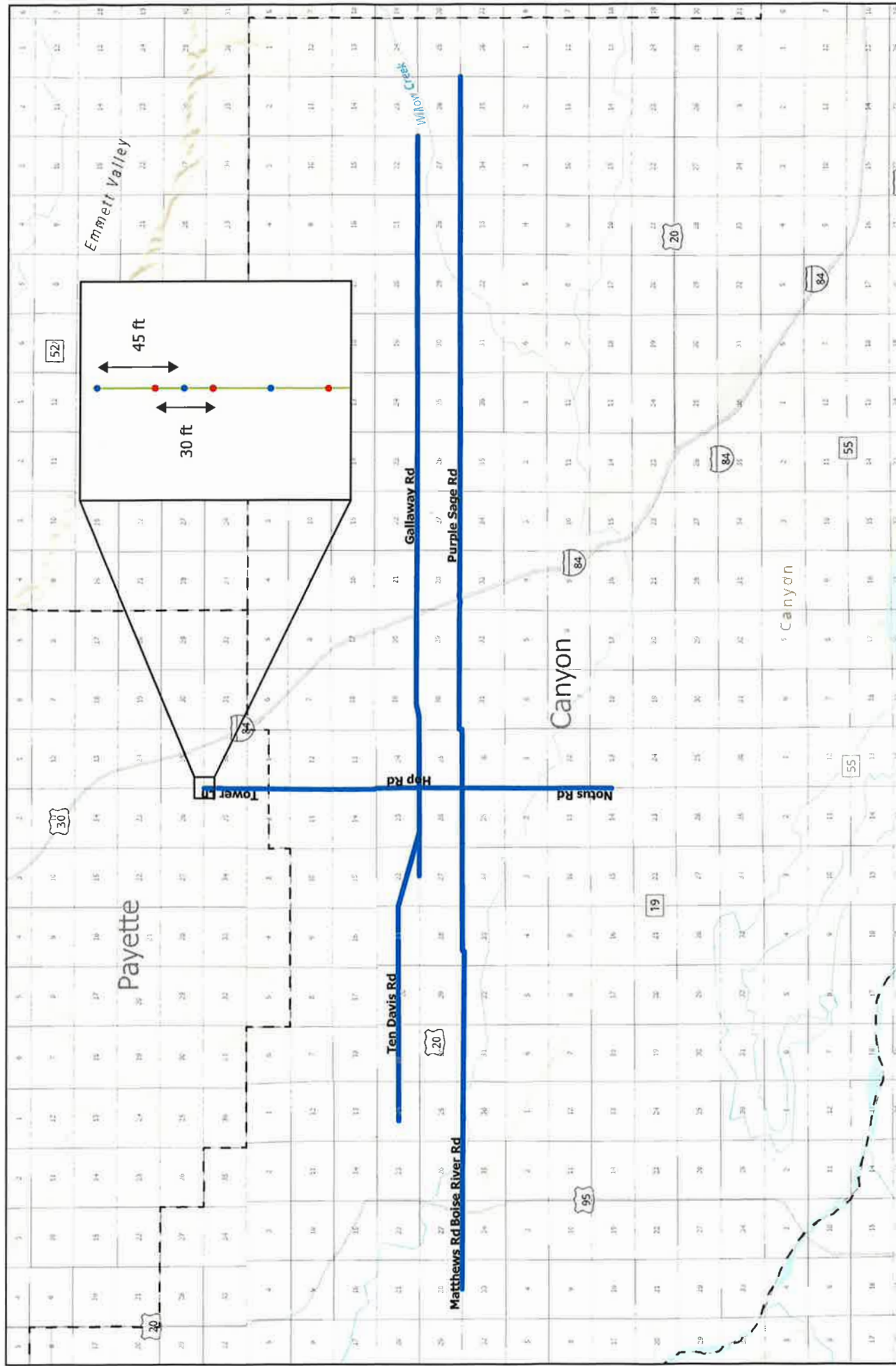
Please submit application to:

Idaho Department of Lands
Oil and Gas Regulatory Program
300 N. 6th Street, Suite 103
P.O. Box 83720
Boise, Idaho 83720-0050

For IDL Office use only:

Permit Number LU600506

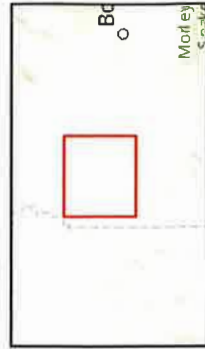
Approved by:  Approval Date: 9/12/25



Proposed Lines (47.6 Miles)

- Sources
- Receivers

0 1 2 4 6 8 Miles





INTERIM AD DRAFT

This is the proof of your ad scheduled to run in **Idaho Press (Nampa)** on the dates indicated below.
If changes are needed, please contact us prior to deadline at **(208) 467-9251**.

Notice ID: EuC5jLgELJqBPMsDsBsF | **Proof Updated: Jul. 23, 2025 at 03:50pm EDT**
Notice Name: Public Notice

This is not an invoice. Below is an estimated price, and it is subject to change. You will receive an invoice with the final price upon invoice creation by the publisher.

FILER

Bronson Barrett
bronson@cascadeexp.com
(720) 339-6737

FILING FOR

Idaho Press (Nampa)

Columns Wide: 1

Ad Class: Legals

08/06/2025: Custom

08/13/2025: Custom

PUBLIC NOTICE: Vantage Geophysical Corporation will be conducting a geophysical survey on behalf of Cascade Exploration LLC. The geophysical survey will be performed on county roads and on private lands where surface use agreements have been obtained from the surface owner. Operations will occur in Canyon County within Highway District No. 2 and Highway District No. 4, and in Payette County on county roads managed by Payette County Road & Bridge. The estimated timeframe for the geophysical survey operations is between August 15, 2025 and October 31, 2025. Vantage Geophysical Corporation can be reached at office@vantage-geo.com or 346-795-1707, and Cascade Exploration can be contacted at info@cascadeexp.com or 208-278-6576.