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OCT 23 2020

DIVISION OF MINERALS

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 | Fax (775) 684-7052
http://minerals.nv.gov

Date Received	_____
API Number	<u>27-019-90053</u>
County	<u>LYON</u>
Permit Number	<u>1497</u>
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

Open Mountain Energy, LLC

Street Address 3451 N. Triumph Blvd.

City Lehi State UT Zip Code 84043

hereby makes application for a geothermal development permit, State of Nevada, Division of Minerals.

(If applicant is a corporation, show state and date of incorporation; if a partnership, list names of partners.)

Organization chart on file with NDOM.

This application is for a Domestic well Commercial well Industrial well

Other, specify: Observation well Thermal Gradient well Re-entry

Note: Re-entry includes workover, deepening, or plugging back operations.

Applicant is: Land Owner Lease Holder

Well Name: TG-I

Lease Name/No: NVN-089599 Split Estate? Yes No

Land Type: Federal (BLM, USFS, etc.) Private State

Location of Well:

Domestic: Street: _____

City: _____ County: _____

Commercial and Industrial:

SW $\frac{1}{4}$ of, SW $\frac{1}{4}$ in Section 10,

Township 15 N, Range 25E,

UTM Northing 4338262.83 N; UTM Easting 311785.2435 E (NAD83 Datum)

County Lyon

(If applicable, give street address below.)

Street: 21 Julian Ln,

City: Yerington

State: Nevada Zip: 89447

Operator's Name: Whitegrass No. 1, LLC
Address: 3451 N. Triumph Blvd.
City, St Zip: Lehi, UT 84043

Drilling Contractor's Name: TBD (e.g., Welsco Drilling Corp.)
Address: TBD
City, St Zip: TBD

Rotary Rig Description: Rotary or core rig of suitable capacity to drill to 2,000ft.

Hole Size: 6 1/8" Casing Size: 2 7/8" Weight/Gauge: 6.5 lb/ft, J-55

Estimated Well Head Temperature: 60 degF

Size of BOP: 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:

Thermal gradient wells to measure heat flow. If developed, the geothermal resource will be used for power generation and possibly direct use applications.

Planned Disposal of Spent Geothermal Fluid:

No fluids will be produced.

Type and Amount of Bond: \$50,000
(Exempt for Domestic Class)

Bond Issued by: Lexon Insurance Company Serial No. Bond#: 1151513

The Source of the Proposed Geothermal Resource is:

Tertiary Volcanic and/or Triassic Meta-sedimentary Rocks.

(List name of hot spring, geologic formation(s) or other source.)

Total Depth to be Drilled: 2,000

Drilling will Commence On or Before: August 1, 2020

Signature of Applicant/Agent: 

Date: 7/21/2020

Please attach a detailed drilling program including the following information:

1. Well design schematic; casing and mud programs; potential water supply; drilling rig to be used and pad layout; blow out prevention equipment diagram and testing program; directional drilling information if applicable; map of location and access roads. Additional information may be required upon review.
2. The required fee per NAC 534A 210 or 534A.212.

CONDITIONS OF PERMIT

1. All permittees must comply with appropriate sections of the Geothermal Rules and Regulations of the Division of Minerals and with applicable rules and regulations of other local, state, and federal agencies.
2. During the drilling of domestic geothermal wells, all water strata above the geothermal horizon being used must be sealed or separated in order to prevent their contents from passing into other strata.
3. All fresh water and water of value or possible value for other beneficial uses must be confined to their respective strata and be adequately protected by methods approved by the Division. Precautions must be taken in drilling and abandoning wells to guard against any loss of fresh water from the strata in which it occurs, and the contamination of any fresh water by objectionable water.
4. The operator of any well must shut off and exclude all water from any geothermal resource-bearing stratum to the satisfaction of the Division.
5. See attached Conditions of Approval.
6. Please send daily drilling reports to : Lowell Price.....lprice@minerals.nv.gov
and
Valerie Kneefel.....vkneefel@minerals.nv.gov

7. Additional Conditions/Comments

A.	SEE ATTACHED CONDITIONS OF APPROVAL
B.	
C.	

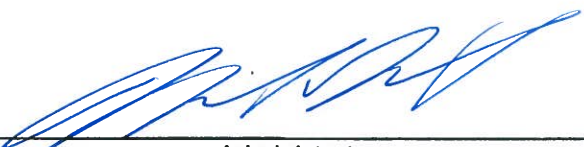
This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal, and local agencies.

PERMIT APPROVAL

Approved 10/23/2020 with the conditions noted above.
Date

Permit Number 1497



Administrator
Division of Minerals



STEVE SISOLAK
Governor

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Michael Visher
Administrator

Las Vegas Office: 375 E. Warm Springs Rd. #205, Las Vegas, NV 89119
Phone: (702) 486-4343; Fax: (702) 486-4345

**GEOHERMAL
CONDITIONS OF APPROVAL
TG-I TEMPERATURE GRADIENT WELL, PERMIT 1497**

Submit forms and correspondence to: Nevada Division of Minerals
400 West King Street
Suite 106
Carson City, NV 89703

Communications with the Division shall be directed to:

Lowell Price, Fluid Minerals Program Manager

Office 775-684-7045 Email lprice@minerals.nv.gov
Cell 775-721-1774
Fax 775-684-7052

Courtney Brailo, Oil, Gas and Geothermal Program Manager

Office 775-684-7046 Email cbrailo@minerals.nv.gov
Cell 775-721-2726
Fax 775-684-7052

Michael Visher, Division Administrator

Office 775-684-7044 Email mvisher@minerals.nv.gov
Cell 775-721-7625
Fax 775-684-7052

Voicemail is available on all cell phones and office phones. Please leave a message if you are unable to speak to someone and we will return your call as quickly as possible.

By provision of the current Memorandum of Understanding between NDOM and BLM, you may contact the following individuals for information or approvals. Approvals under the MOU apply to Fee and Federal lease locations.

John Menghini, Fluid Minerals Team, Petroleum Engineer, Reno

Office 775-861-6573 Email jmenghin@blm.gov
Cell 775-223-1359
Fax 775-861-6711

Jose Rios, Fluid Minerals Team, Petroleum Engineer Technician, Reno

Office 775-861-6641 Email jrios@blm.gov
Cell 775-335-5934
Fax 775-861-6711

YOUR APPLICATION TO DRILL THE TG-I TEMPERATURE GRADIENT WELL, PERMIT 1497, IS APPROVED SUBJECT TO THE FOLLOWING PERMIT CONDITIONS

1. **These conditions shall be posted at the well site and read by all company personnel associated with the subject wells.**
2. The operator shall give notification at least **48 hours prior** to spudding. These notifications may be by telephone or email. Please refer to the contacts list on page one of this notice.
3. Operator will monitor temperature of mud returns continuously. If temperature exceeds 150 degrees Fahrenheit, drilling operations must cease and the division contacted to review the drilling program. BOPE may be necessary to continue to TD.
4. Maintain daily drilling records and submit these to the Division with completion reports. The Completion Report shall include the name of the licensed water well driller and the driller's license number.
5. The operator in the event of a serious accident, blow out, oil spill or fire, lightning strike, break, leak, or overflow to notify the Division of Minerals immediately. In the event of a spill of hydrocarbons of 25 gallons or more, you must contact NDEP at 1-888-331-NDEP (6337). You will be advised on clean up and disposal procedures.
6. Temperature gradient wells must be plugged and abandoned in accordance with NAC 534A.480 within 2 years of the drilling completion date. Hole must be backfilled with mud, granulated bentonite, or bentonite/cement mix and 50 lineal feet of cement placed to surface. Surface must be restored as near as practicable to its original condition.
7. A plugging report must be filed within 30 days of the completion of plugging operations.

SUNDRY NOTICES
OIL, GAS AND GEOTHERMAL

Verbal approval for the following work may be given by the Division:

1. Any emergency work necessary to prevent or control blow outs or other situations with significant potential to result in injury to the crew or damage to the environment or resource.
2. Any kick-offs necessary to by-pass bad hole or fish left in hole.
3. Changes in casing points due to bad hole.
4. Deepening, attempting to encounter resource.

5. Drilling equipment failure.
6. Squeeze or plug backs to prevent any injected geothermal or oil field waters from contaminating other water zones.

The operator is required to file a written sundry notice with the division subsequent to verbal approval. Verbal approvals will not be given for any work that can be planned in advance, such as acidizing, changes in casing points or completion, etc., reentry of a well, remedial work, production or injection testing.