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APR 28 2021

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 5-6-21
API Number 27-009-90089
County ESMERALDA
Permit Number 1507
FOR DIVISION USE ONLY

GEOTHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

Fish Lake Geothermal LLC

Street Address 245 E. Liberty St. Suite 520

City Reno State NV Zip Code 89501

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.)

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: 88-11

Lease Name/No: Fish Lake Split Estate? Yes No

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

Location of Well:

Domestic: Street: N/A

City: N/A County: N/A

Commercial and Industrial:

SE 1/4 of, SE 1/4 in Section 11,
Township 01S, Range 35E

UTM Northing 4190896 N; UTM Easting 407607 E (NAD83 Datum)

County Esmeralda

(If applicable, give street address below.)

Street: N/A

City: N/A

State: N/A Zip: N/A

Operator's Name: Fish Lake Geothermal LLC
Address: 245 E. Liberty St. Suite 520
City, St Zip: Reno, NV 89501

Drilling Contractor's Name: Steam Reserve Corporation
Address: 1707 Cole Boulevard
City, St Zip: Golden, Colorado 80401

Rotary Rig Description: Information unknown, not documented in drilling reports

Hole Size: 36" Casing Size: 13 3/8" Weight/Gauge: 48-lb/K-55

Estimated Well Head Temperature: 200°F

Size of BOP: 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:

Geothermal Power Plant- Electrical Power Generation

Planned Disposal of Spent Geothermal Fluid:

Returned to geothermal reservoir

Type and Amount of Bond: Statewide Surety Bond
(Exempt for Domestic Class)

Bond Issued by: Lexon Surety Group Serial No. 1151513

The Source of the Proposed Geothermal Resource is:

Hosted along a steeply dipping fault system in Precambrian/Paleozoic sedimentary and metasedimentary basement.

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

Total Depth to be Drilled: 8,149'

Drilling will Commence On or Before: Well drilled from 4/11-6/18 1984 and never permitted with NDOM

Signature of Applicant/Agent: Janice Lopeman
Date: 04/28/2021

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.	
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 6/14/2021 with the conditions noted above.
Date

Permit Number 1507



Administrator
Division of Minerals

CalEnergy Operating Corporation

Fish Lake

88-11 Exploration Well

Well Profile

Date: 11/08/2006

