

For NDOM Use Only☐ Entered in Database

By: _____ Date: _____

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 **2/7/2025**API # **27-001-90550**County **Churchill**Permit Number **1664**

FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATIONName or Corporate/Business Name Forty Mile Desert Resources, LLCNevada SOS Business ID Number E22821552022-1Street Address 910 Louisiana Street, Suite 4400City Houston State TX Zip Code 77002

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.)

A Delaware Limited Liability Company, as of March 28, 2022This application is for a ☐ Domestic well ☐ Commercial well ☐ Industrial wellOther, specify: ☒ Observation well ☐ Thermal Gradient well ☐ Re-entry**Note:** Re-entry includes workover, deepening, or plugging back operations.Applicant is: ☐ Land Owner ☒ Lease HolderWell Name: Alyssum 1-OBLease Name/No: NV-Corsac-FMD1 Split Estate? ☐ Yes ☒ NoLand Type: ☐ Federal (BLM, USFS, etc.) ☒ Private ☐ StateLocation of Well:

Domestic: Street: _____

City: _____ County: _____

Commercial and Industrial:

SE 1/4 of, NW 1/4 in Section 33,Township 21N, Range 27E,SHL UTM Northing 332173.3417 N; UTM Easting 4390169.875 E (NAD83 Datum)BHL UTM Northing 332173.3417 N; UTM Easting 4390169.875 E (NAD83 Datum)County Churchill

(If applicable, give street address below.)

Street: _____

City: _____

State: _____ Zip: _____

Operator's Name: Forty Mile Desert Resources, LLC
Address: 910 Louisiana Street, Suite 4400
City, St Zip: Houston, TX 77002

Drilling Contractor's Name: TBD
Address: _____
City, St Zip: _____

Rotary Rig Description: Conventional Rotary Rig

Hole Size: See Attachment Casing Size: See Attachment Weight/Gauge: See Attachment

Estimated Well Head Temperature: 400F

Size of BOP: ☒ 2000 psi ☐ 3000 psi ☐ 5000 psi

Planned Use of Geothermal Resource:

Observing potential for generation of commerical electricity.

Planned Disposal of Spent Geothermal Fluid:

No anticipated geothermal fluid production.

Type and Amount of Bond: Single Commercial Geothermal Observation Well, \$100,000
(Exempt for Domestic Class)

Bond Issued by: Arch Insurance Serial No. SU1178126

Geothermal Project Area (if applicable) Corsac

The Source of the Proposed Geothermal Resource is:

Geothermal resource in metasediments and intrustives of the Hot Springs Mountains and Forty Mile Desert.

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

Total Depth to be drilled: 11,500

Drilling will commence on or before: 5/1/2025

Signature of Applicant/Agent:  _____
Brandon Law (Feb 7, 2025 09:16 MST)

Date: 02/07/2025

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 : Dustin Holcombdholcomb@minerals.nv.gov
and
Crystal Crusonfluids@minerals.nv.gov

7. Additional Conditions/Comments

A.	Project Area Permit #1543 See Attached COA
B.	Notify NDOM of drilling contractor no later than 5 days before spudding the well
C.	Sumps must be fenced on thee sides

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 7/17/2025 with the conditions noted above.
Date

Permit Number 1664

Administrator
Division of Minerals