



Operator's Name: Jeff Dodd  
Address: 1194 Sweetwater  
City, St Zip: Reno, NV. 89509

Drilling Contractor's Name: Bruce MacKay Pump & Well Service, Inc.  
Address: 1600 Mt Rose Hwy  
City, St Zip: Reno NV 89511

Rotary Rig Description: Ingersol Rand T-3

Hole Size: 12" Casing Size: 8" Weight/Gauge: .188

Estimated Well Head Temperature: 160°

Size of BOP:  2000 psi  3000 psi  5000 psi

Planned Use of Geothermal Resource:

Heating in the winter.

Planned Disposal of Spent Geothermal Fluid:

N/A PER DISCUSSION WITH FRANK KURNIK, MACKAY DRILLING, SPENT GEOTHERMAL FLUIDS WILL BE DISPOSED THROUGH REINJECTION.

Type and Amount of Bond: N/A  
(Exempt for Domestic Class)


Bond Issued by: \_\_\_\_\_ Serial No. \_\_\_\_\_

The Source of the Proposed Geothermal Resource is:

None

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

Total Depth to be Drilled: 240 300 (LDP) PER DISCUSSION WITH FRANK KURNIK, MACKAY DRILLING  
Drilling will Commence On or Before: 4/15/17

Signature of Applicant/Agent:   
Date: 4/5/17

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 geothermal injection 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](mailto:lprice@minerals.nv.gov)  
and  
Linda Wells.....[lwells@minerals.nv.gov](mailto:lwells@minerals.nv.gov)
7. Additional Conditions/Comments

A.	YOUR REQUEST FOR AN EXCEPTION TO THE 100 FOOT SETBACK PER NAC 534A.200 IS GRANTED.
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 4-21-17 with the conditions noted above.  
Date

Permit Number 1415

  
\_\_\_\_\_  
Administrator  
Division of Minerals



**BRIAN SANDOVAL**  
Governor

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/>



**RICHARD PERRY**  
Administrator

Las Vegas Office: 2030 E. Flamingo Rd. #220, Las Vegas, NV 89119  
Phone: (702) 486-4343; Fax: (702) 486-4345

**Domestic Wells**

**CONDITIONS OF APPROVAL  
FOR DRILLING PERMIT**

Submit forms and correspondence to: Nevada Division of Minerals  
400 W. King Street #106  
Carson City, NV 89703

Communications with the Division shall be directed to:

Lowell Price, Oil, Gas and Geothermal Program Manager  
Office - 775-684-7045 E-mail [lprice@minerals.nv.gov](mailto:lprice@minerals.nv.gov)  
Cell - 775-721-1774  
Fax - 775-684-7052

Richard M. Perry, Division Administrator  
Office - 775-684-7047 E-mail [mperry@minerals.nv.gov](mailto:mperry@minerals.nv.gov)  
Cell - 775-721-0282  
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.

**YOUR APPLICATION TO DRILL IS APPROVED  
SUBJECT TO THE FOLLOWING PERMIT CONDITIONS**

1. The operator or drilling contractor shall give the Division's Oil, Gas, and Geothermal Program Manager a 48 hour notification prior to commencing drilling operations. This notification may be by telephone or e-mail.
2. The wellbore must be constructed as permitted by the Division of Minerals. Any modifications in wellbore construction must have prior approval by the Division Administrator.
3. Production and injection volumes must be metered and recorded at least quarterly to ensure there is no diversion of water for consumptive use. A form for this purpose is available on the Division's web site. This form must be available for inspection at the Division's request.
4. Upon completion of drilling operations, a Geothermal Well Completion Report must be filed with the Division of Minerals within 30 days.
5. If a well requires plugging and abandonment, the plugging and abandonment must be done according to Nevada Administrative Code (NAC) 534A.470, and the proposed procedure must be approved by the Division's Administrator. A Well Plugging Report (Form 12) must be filed with the Division of Minerals within 30 days of the completion of plugging operations.