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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	4/5/2017
API Number	27-031-90303
County	WASHOE
Permit Number	1416
FOR DIVISION USE ONLY	

GEOHERMAL INJECTION WELL PERMIT APPLICATION

The applicant

Dodd, Jeffrey S et al.

Name (or Corporate/Business Name)

Street Address 1194 Sweetwater Drive
 City Reno State NV Zip Code 89509
 Telephone 851-1600
 Email frank@brucemackay.com

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

Applicant is: Land Owner Lease Holder
 Well Name: Injection Well #1
 Lease Name/No: _____ Split Estate? Yes No
 Land Type: Federal (BLM, USFS, etc.) Private State
 Type and Amount of Bond: _____
 (Exempt for Domestic Class)

Bond Issued by: _____
Serial No. _____

Well Location: SE 1/4, NE 1/4, Section 26
 Township 19N, Range 19E, County Washoe

UTM Northing 39.485370 N; UTM Easting -119.811423 E (NAD83 Datum)
4374412 258212

Operator's:
 Name: Dodd, Jeffrey S et al.
 Address: 1194 Sweetwater Drive
 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
 Telephone: 775-851-1600

Hole Size: 10 5/8 Casing Size: 6 5/8 Weight/Gauge: .188 Wall

Size of BOP: 2000 psi 3000 psi 5000 psi

Rotary Description:

Mud Rotary

Identify or locate the sources of the fluids which will be injected:

Water, Drilling Mud

Estimated average daily volume of fluids injected 2000 gallons.

Maximum daily volume of fluids injected 5000 gallons.

Estimated maximum injected pressure 5 psi, temperature 130 °F

List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution:

Total Depth to be Drilled: 240' 300' (LDP) PER DISCUSSION WITH FRANK KURNIK, MACKAM DRILLING

Drilling will Commence On: TBD

Is this well location under an Underground Injection Permit?

If so, provide NDEP Permit number UNEV TBD

I certify this information to be true, correct, and complete and that no pertinent matter inquired about in this application has been omitted.

Signature of Applicant/Agent: Frank Kurnik

Print Name: Frank Kurnik

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 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
Linda Wells.....lwells@minerals.nv.gov
7. Additional Conditions/Comments

A.	YOUR REQUEST FOR AN EXCEPTION TO THE 100 FOOT SETBACK PER NAC 534.200 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 1416



Administrator
Division of Minerals



BRIAN SANDOVAL
Governor

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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
Cell - 775-721-1774
Fax - 775-684-7052

Richard M. Perry, Division Administrator
Office - 775-684-7047 E-mail 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.