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JUL 13 2015

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	27-031-90300
County	Washoe
Permit Number	1394
FOR DIVISION USE ONLY	

GEOTHERMAL INJECTION WELL PERMIT APPLICATION

The applicant

~~Bruce MacKay Pump & Well Service, Inc.~~ ANDREW FURER

Name (or Corporate/Business Name)

Street Address 11095 Thomas Creek

City Reno State NV Zip Code 89511

Telephone 851-1600

Email frankk@brucemackay.com

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

Applicant is:  Land Owner  Lease Holder

Well Name: IW#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: NE 1/4, NE 1/4, Section 13

Township 18N, Range 19E, County Washoe

UTM Northing 39.432776 N; UTM Easting -119.790076 E (NAD83 Datum)

Operator's:

Name: Same

Address: \_\_\_\_\_

City, St Zip: \_\_\_\_\_

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:

Geothermal from production well. Well Log #92218

Estimated average daily volume of fluids injected 7200 gallons.

Maximum daily volume of fluids injected 10,000 gallons.

Estimated maximum injected pressure 15 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: 200'

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: 

Print Name: Frank Kurnik

Date: 6/9/15

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.

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**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.	
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.

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**PERMIT APPROVAL**

Approved 7/27/2015 with the conditions noted above.  
Date

Permit Number 1394

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

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