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JUN 30 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	27-031-90299
County	WASHOE
Permit Number	1393
FOR DIVISION USE ONLY	

**GEOHERMAL INJECTION WELL PERMIT APPLICATION**

The applicant

Nevada Pacific Development Corp.

Name (or Corporate/Business Name)

Street Address 956 Lakeshore Blvd.

City Incline Village State NV Zip Code 89451

Telephone 775-831-2070

Email elizabeth@nevadapacific.com or alan@nevadapacific.com

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

Applicant is:  Land Owner  Lease Holder

Well Name: EH4

Lease Name/No: N/A 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: NW  $\frac{1}{4}$ , SW  $\frac{1}{4}$ , Section 16

Township 16N, Range 18E, County WASHOE

UTM Northing 4500167 N; UTM Easting 679862 E (NAD83 Datum)

Operator's:

Name: Nevada Pacific Development Corp - Alan Green 775-287-6270.

Address: Injection Well EH3 located at 601 Lakeshore Blvd.

City, St Zip: Incline Village, NV, 89451

Drilling Contractor's:

Name: Bruce MacKay Pump and Well Service, Inc.

Address: 1600 Mt. Rose Hwy

City, St Zip: Reno, NV 89511

Telephone: 775-851-1600

Hole Size: 12.25" Casing Size: 8.625" Weight/Gauge: 17#/ft-0.188" th

Size of BOP:  2000 psi  3000 psi  5000 psi

Rotary Description:

Ingersoll Rand T-3-drilling for an estimated 200 gpm earth heat well for water-to-water heat pump system for space heating/cooling utilizing ground-temperature (ie cold) water

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

Groundwater - cold water - expect 60 degrees F appx.

Estimated average daily volume of fluids injected 288000 gallons.

Maximum daily volume of fluids injected 300000 gallons.

Estimated maximum injected pressure 5 psi, temperature 60 °F

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

Wellhead will be in an underground vault. Meter: in-line flow meter reading in gpm and gallons; overpressure alarm, bypass, and shutoff system; emergency overflow; gpci elect.

Total Depth to be Drilled: 300ft

Drilling will Commence On: July 2015

Is this well location under an Underground Injection Permit?

If so, provide NDEP Permit number UNEV NA

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: Elizabeth J. Tuoto, Secretary

Print Name: Elizabeth Tuoto

Date: 6/30/15

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.

**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.

**PERMIT APPROVAL**

Approved 7/2/2015 with the conditions noted above.  
Date

Permit Number 1393

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