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APR 22 2015

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

Date Received]
API Number <u>27-021-9006</u>	5
County Mineral	
Permit Number <u>/387</u>	2877
FOR DIVISION USE ONLY	ı

Division of Minerals

GEOTHERMAL INJECTION WELL PERMIT APPLICATION

The applicant	
ORNI 37 LLC	
Name (or Corporate	e/Business Name)
of	
Street Address	6225 Neil Road
City	Reno State NV Zip Code 89511
Telephone	775-336-0172
Email	ksnyder@ormat.com
hereby makes ap	plication 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.)
	*
 V Le L:	Land Owner
Bond Issued by: Serial No.	B of A
Well Location:	NW 1/4, SW 1/4, Section 6
Township 11N	, Range <u>33E</u> , County <u>Mineral</u> .
UTM Northing 430	00451_N; UTM Easting <u>386341</u> E (NAD83 Datum)
Operator's:	
10.00	DRNI 37 LLC
	225 Neil Road
City, St Zip: _F	Reno, NV 89511

Name: Address: 4782 Hwy 111 City, St Zip: Brawley, CA 92227 Telephone: 760-344-5550 Hole Size: 26" Casing Size: 20" Weight/Gauge: K-55 Size of BOP: □ 2000 psi ☒ 3000 psi ☐ 5000 psi Rotary Description: Identify or locate the sources of the fluids which will be injected: Phase II Well locations such as 64-11, 64A-11, 64B-11, and 64C-11 which are currently being drilled Estimated average daily volume of fluids injected 6,000,000 gallons. Estimated maximum injected pressure 100 psi, temperature 264 °F List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution: The usual pipelines and instrumentation will be used: ultrasonic or orifice flow meter, pressure and temperature gauges and transmitters, isolation and check valves. Total Depth to be Drilled: 2500' Drilling will Commence On: 5/1/2015 Is this well location under an Underground Injection Permit? If so, provide NDEP Permit number UNEV 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: Maximum devices 1200 1200 1200 1200 1200 1200 1200 120	Drilling Contractor's:
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Telephone: 760-344-5550 Hole Size: 26" Casing Size: 20" Weight/Gauge: K-55 Size of BOP: 2000 psi 3000 psi 5000 psi Rotary Description: Identify or locate the sources of the fluids which will be injected: Phase II Well locations such as 64-11, 64A-11, 64B-11, and 64C-11 which are currently being drilled Estimated average daily volume of fluids injected 6,000,000 gallons. Maximum daily volume of fluids injected 10,000,000 gallons. Estimated maximum injected pressure 100 psi, temperature 264 °F List proposed metering equipment, pipelines and safety devices that will be used to prevent accidental pollution: The usual pipelines and instrumentation will be used: ultrasonic or orifice flow meter, pressure and temperature gauges and transmitters, isolation and check valves. Total Depth to be Drilled: 2500' Drilling will Commence On: 5/1/2015 Is this well location under an Underground Injection Permit? If so, provide NDEP Permit number UNEV 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:	Address: 4782 Hwy 111
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application has been omitted. Signature of Applicant/Agent:	
Date: 04/02/2015	
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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.
- 7. Additional Conditions/Comments

5. See attached Conditions of Approval.

A.	Under Project area Permit 1386	
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 5/1/20/5 with the conditions noted above.

Permit Number <u>/387</u>

Administrator Division of Minerals

minerals.nv.90V