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MAY 02 2013

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

Date Received
API Number 29-021-90058
County Mineral
Permit Number 1337
FOR DIVISION USE ONLY

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

ORNI 47 LLC

Street Address 6225 Neil Road

City Reno State NV Zip Code 89511

hereby makes application 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.)

[Empty box for incorporation/partnership details]

This application is for a [] Domestic well [] Commercial well [] Industrial well
Other, specify: [x] Observation well [] Thermal Gradient well [] Re-entry

Note: Re-entry includes workover, deepening, or plugging back operations.

Applicant is: [] Land Owner [x] Lease Holder
Well Name: 57-11
Lease Name/No: NVN - 83929 Dead Horse Wells Split Estate? [] Yes [] No
Land Type: [x] Federal (BLM, USFS, etc.) [] Private [] State

Location of Well:

Domestic: Street:
City: County:

Commercial and Industrial:

SW 1/4 of SE 1/4 in Section 11
Township 11N, Range 32E

UTM Northing 4298998 N; UTM Easting 383621 E (Using NAD27 Datum)

Note: Please convert UTM's from NAD83 to NAD27

County Mineral

(If applicable, give street address below.)

Street:
City:
State: Zip:

Operator's Name: ORNI 47 LLC
Address: 6225 Neil Road
City, St Zip: Reno, NV 89511

Drilling Contractor's Name: Geodrig
Address: 4782 Hwy 111
City, St Zip: Brawley, CA 92227

Rotary Rig Description: _____

Hole Size: 12" Casing Size: 7" Weight/Gauge: 23 lb/ft K-55 BTC

Estimated Well Head Temperature: 260 F

Size of BOP: 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:

Core hole for geothermal exploration

Planned Disposal of Spent Geothermal Fluid:

Type and Amount of Bond: BLM Statewide bond @ \$50,000 NDOM Bond \$75,000
(Exempt for Domestic Class)

Bond Issued by: Bank of America CD (NDOM) Serial No. _____

The Source of the Proposed Geothermal Resource is:

Dead Horse Wells BLM lease. subsurface geothermal

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

Total Depth to be Drilled: 3000'

Drilling will Commence On or Before: 6/1/2013

Signature of Applicant/Agent: 
Date: 04/29/13

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@govmail.state.nv.us
and
Lindalwells@govmail.state.nv.us
7. Additional Conditions/Comments

| | |
|----|--|
| A. | <i>Under Project Akea Permit 1071.</i> |
| B. | |
| C. | |

PERMIT APPROVAL

Approved 5/17/2013 with the conditions noted above.
Date

Permit Number _____



Administrator
Division of Minerals