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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

Date Received	_____
API Number	<u>37-001-90501</u>
County	<u>Churchill</u>
Permit Number	<u>1327</u>
FOR DIVISION USE ONLY	

GEOHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name

Patua Project LLC

Street Address 9670 Gateway Drive

City Reno State NV Zip Code 89521

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.)

State of Colorado, July 31, 1991

This application is for a Domestic well Commercial well Industrial well

Other, specify: Observation well Thermal Gradient well Re-entry

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

Applicant is: Land Owner Lease Holder

Well Name: Patua 14-28

Lease Name/No: Federal NV-85705 (APN# 009-251-29) Split Estate? Yes No

Land Type: Federal (BLM, USFS, etc.) Private State

Location of Well:

Domestic: Street: _____
City: _____ County: _____

Commercial and Industrial:

SW 1/4 of, NW 1/4 in Section 28,
Township 20N, Range 26E,

UTM Northing 4382025 N; UTM Easting 321495 E (Using NAD27 Datum)
Note: Please convert UTM's from NAD83 to NAD27

County Churchill

(If applicable, give street address below.)

Street: _____
City: _____
State: _____ Zip: _____

Operator's Name: Patua Project LLC
Address: 9670 Gateway Drive
City, St Zip: Reno, NV 89521

Drilling Contractor's Name: Rocket Drillco
Address: 270 S Maine (Suite 7)
City, St Zip: Fallon, NV 89406

Rotary Rig Description: Drillmaster

Hole Size: 12 1/4" Casing Size: 9 5/8" Weight/Gauge: 40#/ft

Estimated Well Head Temperature: 325 degrees F

Size of BOP: 2000 psi 3000 psi 5000 psi

Planned Use of Geothermal Resource:

Development of geothermal power generation project for commercial sale of electricity

Planned Disposal of Spent Geothermal Fluid:

Store in drilling sump and inject back into formation

Type and Amount of Bond: Cash deposit in the sum of \$50,000.00
(Exempt for Domestic Class)

Bond Issued by: BLM Serial No. NVB000655


The Source of the Proposed Geothermal Resource is:

Fractured Granitic Formations

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

Total Depth to be Drilled: 10,500'

Drilling will Commence On or Before: 2/10/13

Signature of Applicant/Agent: 
Date: 12/14/2012

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 Area Permit 865.</i>
B.	
C.	

PERMIT APPROVAL

Approved 1/16/13 with the conditions noted above.
Date

Permit Number 1327



Administrator
Division of Minerals