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JUN 18 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	27-001-90505
County	CHURCHILL
Permit Number	1339
FOR DIVISION USE ONLY	

GEOHERMAL INJECTION WELL PERMIT APPLICATION

The applicant

Patua Project LLC

Name (or Corporate/Business Name)

of

Street Address 9670 Gateway Drive

City Reno State NV Zip Code 89521

Telephone 775-284-8842

Email marc.steffen@gradient.com

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 Nevada, February 23, 2007

Applicant is: Land Owner Lease Holder

Well Name: 55(45-20)20

Lease Name/No: NV-85705 Split Estate? Yes No

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

Type and Amount of Bond: BLM
(Exempt for Domestic Class)

Bond Issued by: BLM

Serial No. NVB000655

Well Location: NW 1/4, SE 1/4, Section 20

Township 20N, Range 26E, County Churchill

UTM Northing 4383480 N; UTM Easting 320628 E (NAD83 Datum)

Operator's:

Name: Patua Project LLC

Address: 9670 Gateway Drive

City, St Zip: Reno, Nevada 89521

Drilling Contractor's:

Name: Kenai Drilling Limited

Address: 2651 Patton Way

City, St Zip: Bakersfield, CA 93308

Telephone: 661-587-0117

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

Size of BOP: 2000 psi 3000 psi 5000 psi

Rotary Description:

1,000,000# Triple Rotary Rig
National 110, 1500 HP

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

Production well field fluid from the Patua Project Area

Estimated average daily volume of fluids injected 4,750,000 gallons.

Maximum daily volume of fluids injected 6,000,000 gallons.

Estimated maximum injected pressure 400 psi, temperature 315 EF

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

Magnetic Flow Meters, Pressure Transmitters, Temperature Transmitters, and Daily Visual Inspections

Total Depth to be Drilled: 9584' M.D., 9500' TVD

Drilling will Commence On: 07/01/2013

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: 

Date: 06/14/2013

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

A.	
B.	
C.	

PERMIT APPROVAL

Approved 7/3/13 with the conditions noted above.
Date

Permit Number _____



Administrator
Division of Minerals



BRIAN SANDOVAL
Governor

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2030 E. Flamingo Rd.
Suite #220
Las Vegas, Nevada 89119
(702) 486-4343
Fax (702) 486-4345

ALAN R. COYNER
Administrator

July 3, 2013

Well: Patua 55(45-20)-20 Injection Well
API Number: 27-001-90505
State Permit Number: 1339
Location: T20N R26E NW/4 SE/4 Section 20
Lease: BLM NV-85705

Conditions of Approval for the drilling of the 55(45-20)-20 injection well:

1. A segmented bond log is to be run over the length of the 13.375 inch intermediate casing when electric logs are run for the 12.25 inch open hole below the intermediate casing.