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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 http://minerals.nv.gov

Date Received 4/25/20/3
API Number 27-007-9008
County ELKO
Permit Number / 4/8 FOR DIVISION USE ONLY
FOR DIVISION USE ONLY

#### GEOTHERMAL RESOURCE DEVELOPMENT PERMIT APPLICATION

Name or Corporate/Business Name  City of Ublis  Street Address 525 Sixth St., P.o. Box 366  City Ublis State NV Zip Code 89835									
Street Address 575 Sixth St., P.O. Rex 366									
City									
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.)									
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 X Lease Holder  Well Name: WGP2									
Lease Name/No: PPN: 008-350-00/ Split Estate? Yes X No									
Lease Name/No:   Private   State   Sta									
Location of Well:									
Domestic: Street:									
City: County:									
Commercial and Industrial: $SE$ % of, $SE$ % in Section 32									
UTM Northing 699 030 N; UTM Easting 4555250 E (NAD83 Datum)									
County E/Ko									
(If applicable, give street address below.)									
Street:									
City:									
State: Zip:									

Operator's Name: Gity of Wels
Address: Same as above
City, St Zip:
Drilling Contractor's Name: Humbold+ Environ. Alternative Tech. Consulting, UC  Address: 1053 Idaho Street  City, St Zip: EIKO, NV
,
Rotary Rig Description: Direct Push Track Mounted Geoprobe
Hole Size: 2.25'' Casing Size: None Weight/Gauge:
Estimated Well Head Temperature: 150°F
Size of BOP: 2000 psi 3000 psi 5000 psi Vone
Planned Use of Geothermal Resource:
Sample water and temperature from Geoprobe hate. Upon completion of hole, it will be plugged with cement from bottom up. Geoprobe will begin next hole only after abandonment of prior have.
Planned Disposal of Spent Geothermal Fluid:
None: drill doesn't use water; approx 2/iter sample will be taken for
geochem analysis - no large pumping.
Type and Amount of Bond: \$10,000.00
(Exempt for Domestic Class)
Bond Issued by: Check From City of Wells Serial No. 5777
The Source of the Proposed Geothermal Resource is:
Threemile and/or Hot Sulphur springs immediately to north.
(List name of hot spring, geologic formation(s) or other source.)
Total Depth to be Drilled: Less than 150 Feet.
Drilling will Commence On or Before:  4/27/17
Signature of Applicant/Agent: 4/25/20/7
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 Priceprice@minerals.nv.gov
		and
		Linda Wells <u>lwells@minerals.nv.gov</u>

7. Additional Conditions/Comments

A.		354,00	
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  $\frac{9/25/2017}{Date}$  with the conditions noted above.

Permit Number \_\_\_\_/\_\_//8



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**RICHARD PERRY** Administrator

Las Vegas Office: 2030 E. Flamingo Rd. #220, Las Vegas, NV 89119 Phone: (702) 486-4343; Fax: (702) 486-4345

## **Temperature Gradient Wells**

## CONDITIONS OF APPROVAL FOR DRILLING PERMIT

Submit forms and correspondence to:

Nevada Division of Minerals 400 W. King Street, #106 Carson City, NV 89703

Communications with the Division shall be directed to:

Lowell Price, Oil, Gas and Geothermal Program Manager

Office 775-684-7045

Email <u>lprice@minerals.nv.gov</u>

Cell 775-721-1774

Fax 775-684-7052

Rich Perry, Division Administrator

Office 775-684-7047

Email rmperry@minerals.nv.gov

Cell 775-721-0282 Fax 775-684-7052

Voicemail is available on all cell phones and office phones. Please leave a message if you are unable to speak to someone and we will return your call as quickly as possible.

# YOUR APPLICATION TO DRILL IS APPROLED SUBJECT TO THE FOLLOWING PERMIT CONDITIONS

- 1. These conditions shall be posted at the well site and read by all company personnel associated with the subject wells.
- 2. The operator shall give notification at least 48 hours prior to spudding. These notifications may be by telephone or email. Please refer to the contacts list on page one of this notice.
- 3. Operator will monitor temperature of mud returns continuously. If temperature exceeds 150 degrees Fahrenheit, drilling operations must cease and the division contacted to review the drilling program. BOPE may be necessary to continue to TD.
- 4. Maintain daily drilling records and submit these to the division with completion reports. Completion report shall include the name of the licensed water well driller and license #.
- 5. The operator in the event of a serious accident, blow out, oil spill or fire, lightning strike, break, leak, or overflow to notify the Division of Minerals immediately. In the event of a spill of hydrocarbons of 25 gallons or more, you must contact NDEP at 1-888-331-NDEP (6337). You will be advised on clean up and disposal procedures.
- 6. These wells must be plugged and abandoned in accordance with NAC 534A.480. Hole must be backfilled with mud, granulated bentonite, or bentonite/cement mix and 50 lineal feet of cement placed to surface. Surface must be restored and as near as practicable to its original condition.
- 7. A plugging report must be filed within 30 days of completion.

# SUNDRY NOTICES OIL, GAS AND GEOTHERMAL

Verbal approval for the following work may be given by the Division:

- 1. Any emergency work necessary to prevent or control blow outs or other situations with significant potential to result in injury to the crew or damage to the environment or resource.
- 2. Any kick-offs necessary to by pass bad hole or fish left in hole.
- 3. Changes in casing points due to bad hole.
- 4. Deepening, attempting to encounter resource.
- 5. Necessary well work to keep geothermal power plants operating.
- 6. Drilling equipment failure.
- 7. Squeeze or plug backs to prevent any injected geothermal or oil field waters from contaminating other water zones.

The operator is required to file a written sundry notice with the division subsequent to verbal approval.

Verbal approvals will not be given for any work that can be planned in advance, such as acidizing, changes in casing points or completion, etc., reentry of a well, remedial work, production or injection testing.