

APPLICATION FOR PERMIT TO DRILL A GEOTHERMAL WELL

(To be accompanied by a \$25.00 permit fee for new wells only and a surety bond conditioned as provided by law.)

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Ontario, Oregon 20 December, 1978

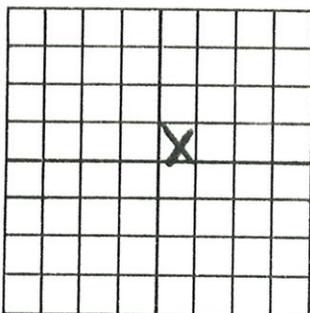
Department of Geology and Mineral Industries
Portland, Oregon 97201

In compliance with rules and regulations pursuant to ORS 522.005 (Chapter 776, O.L. 1971) application is hereby made for permit to drill

a ~~(new well / prospect well)~~ Ore-Ida Foods, Inc. (Ore-Ida property)
(company or operator) (lease)

Well No. 1 in NE4 of sec. 3, T. 18 S., R. 47 E. W. B. & M.,

Field, Malheur County.



Section of land
Area 640 acres

This well is 2,600 feet (N) (S) of the north line and 2,300 feet

(W) of the east line of Sec. 3, T. 18 S., R. 47 E.

(Give location from section or other legal subdivision lines or corners; cross out wrong directions.)

Elevation of ground above sea level is 2,150 feet. All depth measurements are taken from top of KB about 20'. Rig is not yet identified above ground.

The owner is Ore-Ida Foods, Inc.

Address P. O. Box 10, Ontario, Oregon 97914

The owner is same as above

LOCATE WELL CORRECTLY Address

We propose to use the following strings of casing and to land or cement them as herein indicated:

Size of hole	Size of casing	Weight in pounds per foot	Grade and type	New or second hand	Depth	Landed or cemented No. sacks cement
26"	20"	N.A., conductor only	for mud returns	New	minimum 40'; to firm landing.	Cemented b to t.
17 1/2"	13-3/8"	54.5#	K-55 buttress	"	below 700'	Cemented, excess volume b to t.
12 1/4"	9-5/8(?)	This casing string dependent upon temperature and condition of hole, water and gas shows.			below 6,200'	Cemented as above.
9-7/8 to 8-3/4"					below 6,200'	Liner only as required by hole conditions.

Method of drilling: rotary , cable _____, other _____.

Proposed objectives: The objective of the well is to develop a supply of hot water in amounts of up to 800 gpm, at temperatures in excess of 150° C. The anticipated depth to such a geothermal resource is in excess of 6,200'. The anticipated formation objective is basalt of the Columbia River Group (Owyhee Basalt equivalent). The overlying insulative formations are mostly parts of the Idaho Group.

The thermal fluid is to be used for process heat and reinjected into a well entering the GeothermEx, Inc. Col. R. Gp. at a tested distance.

Approved February 8, 1979, 19 _____
except as follows:

DEPT. OF GEOLOGY & MINERAL INDUS.

By [Signature] Director

By Murray C. Gardner Vice President
position

Send communications regarding well to:

Name Dr. Murray C. Gardner, GeothermEx, Inc.

Address 901 Mendocino Avenue, Berkeley, CA 94707

(415) 525-7096 qne 524-9242

(Submit in triplicate)