

STATE OF OREGON
 DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
 910 State Office Building Portland, OR 97201

Permit No.: G-179

API #: 36-017-90040

APPLICATION FOR PERMIT TO DRILL A GEOTHERMAL WELL

(To be accompanied by a \$250 permit fee for new wells and a surety bond conditioned as provided by law.)

DATE January 20, 1995

In compliance with rules and regulations pursuant to ORS 522 (Chapter 552 OL 1975) application is hereby made for permit to drill a geothermal well: CE Exploration OR 45505 86-21
 (Company or Operator) (Lease) (Well No.)

SE $\frac{1}{4}$ SE $\frac{1}{4}$ in $\frac{1}{4}$ of Sec. 21, T 21S, R 12E W.B.& M., Newberry KGRA Field, Deschutes County. Survey Coordinates: From SE corner 1000'N, 200'W Directional

Elevation of ground above sea level is 6260' feet. All depth measurements are taken from top of KB (Kelly Bearing), which is 30' above ground.

Lessee: CE Exploration

Address: 34 NW First St., Ste. 302, Portland Oregon 97209

Lessor: _____

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/Type	New or Secondhand	Depth	Landed or cemented No. sacks cement
36"	30"	118#	Grade B	New	50' GL	Cemented to Surf.
26"	20"	94#	K55/Buttress	New	350' GL	Cemented to surf.
17-1/2"	13-3/8"	68#/72#	K55/L80 buttress	New	3000'GL	Cemented to surf.
12-1/4"	9-5/8"	36#	K55 slotted liner	New	9000'GL	

Proposed Depth 9000'± Objectives Drill directionally east to TD of 9000'.
 See attached drilling procedure

Approved _____, 19 _____
 except as follows:

 DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES
 By _____
 Petroleum Engineer

Company/Operator CE Exploration
 Signature Dave McClain
 Position Project Manager
 Date 1/22/95 JAN 25 1995
 SEND WELL COMMUNICATION TO:
 Name Dave McClain
 Address 34 NW First St., Ste. 302, Portland OR 97209
 Phone (503) 226-3636 (Day) (503) 591 026 (Night)

NOTE: This permit expires 180 days from date of issue. Land use approval must be obtained from the county or city in which the drilling takes place. Issuance of this permit is not a finding of compliance with the Statewide Planning Goals or the acknowledged comprehensive plan.