

6/83

Permit No. 154
API No. 36-025-9010

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

1005 State Office Building Portland, Oregon 97201

APPLICATION FOR PERMIT TO DRILL A GEOTHERMAL WELL

(To be accompanied by a \$100.00 permit fee for new wells only and a surety bond conditioned as provided by law.)

DATE June 2, 1993

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: ANADARKO PETROLEUM CORPORATION OR-23843
(company or operator) (lease)

Well No. 52-22A in NWNE of sec. 22, T. 376, R. 33E W.B.M.,
PUEBLO VALLEY Field, HARNEY County.

Survey Coordinates FROM NW CORNER, 2800'E, 875'S

Elevation of ground above sea level is 4090 feet. All depth measurements are taken from top
of GROUND LEVEL, which is XXXXXXXX above ground.

Lessee ANADARKO PETROLEUM CORPORATION

Address 835 PINER ROAD SUITE A SANTA ROSA, CA. 95403

Lessor USA, BLM

Address P. O. BOX 2965 PORTLAND, OR 97208

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
8-3/4"	7"	23#	N-80	NEW	300'	69 cubic feet
6-1/4"	4-1/2"	11.6#	N-80	NEW	1000'	120 cubic feet

Proposed Depth 2500' Objectives FRACTURED ZONES IN BASALT

Approved 8/13, 1993
except as follows:

See attached

DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES
By [Signature]
Petroleum Engineer

ANADARKO PETROLEUM CORPORATION
company or operator

By [Signature] ATTORNEY-IN-FACT
R. C. EDMISTON position

Send communications regarding well to:
Name P. A. SMITH
Address 835 PINER ROAD SUITE A
SANTA ROSA, CA. 95403

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.