UNITED STATES DEPARTMENT OF THE INTERIOR
GEological Survey, Conservation Division

GEOThermal Drilling Permit

The U.S. Geological Survey requires this form or other Supervisor approved form to be prepared and filed in

Type of Work: Drill New Well ( ) Redrill ( ) Deepen ( ) Plug Back ( ) Directionally Drill ( ) Other ( )

Well Type: Production ( ) Injection ( ) Heat Exchange ( ) Observation ( ) Water Supply ( ) Other ( )

Well Status: Core Hole to be Drilled. No existing wells.

NAME OF LESSEE/OPTIONER:

Newberry Flank (GEO Newberry)

ADDRESS OF LESSEE/OPTIONER:

2300 County Center Dr. #250 Santa Rosa, CA 95401

LOCATION OF PROPOSED WELL:

At Section 25, T20S, R12E.

6.5 miles from N-2 (950' West & 2600' North of the Southwest corner of Sec 24, T20S, R12E)

2.5 miles south of inner southern boundary of unit.

7. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELI, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE:

6.5 miles from N-2 (950' West & 2600' North of the Southwest corner of Sec 24, T20S, R12E)

STATE:

Oregon

APPROVAL STARTING DATE:

July 35

ACRES ASSIGNED (WELL SPACING):

N/A

Drilling Media and Characteristics:

Water ( ) Mud ( ) Foam ( ) Other ( )

PROPOSED DEPTH:

4,000'

ELEVATIONS:

5350' M.S. ( ) FT. ( ) OTHER ( )

REFERENCE DATUM:

HARD REFERENCE ( ) LATITUDE ( ) LONGITUDE ( ) OTHER ( )

CASING:

Size of Hole:

5-5/8"

5-7/8"

Size of Casing:

4-1/2"

6"

Weight Per Foot:

7.7#

6.4#

Coupling Size:

A-120

J-55

Threads:

Diamond Drill

Flush Joint 3 threads/in.

Flush Joint

Depth:

400'

4,000'

Quantity of Cements:

25 cu.ft.

14.7 cu.ft.

Shur-Gel

Refer to attached Drilling Program.

Michael J. Cale

Title: Senior Environmental Coordinator

Date: 3-26-85

(See instructions on reverse side)