UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

GEOTHERMAL DRILLING PERMIT

The Bureau of Land Management (BLM) requires this form or other BLM approved forms to be prepared and filed in triplicate with requisite attachments with the authorized officer. The authorized officer must approve this permit prior to any lease operation.

1a. Type of Work: ☐ Drill New Well ☐ Redrill ☐ Deepen ☐ Plug Back ☐ Directionally Drill ☐ Other

1b. Well Type: ☐ Production ☐ Injection ☐ Heat Exchange ☐ Observation ☐ Water Supply ☐ Other

Temperature Core Hole

1c. Well Status: N/A


3. Address of Lessee/Operator:
   601 California St., 10th Floor, San Francisco, CA 94108

4. Location of Well:
   At surface 5040'E and 1820'S of NW Corner, Section 20
   At proposed prod. zone

5. Distance from Proposed Location to Nearest Property or Lease Line:
   Approx. 1745' North of OR39013 lease boundary

6. Distance from Proposed Location to Nearest Well, or Previously Applied for Well Location on this Lease:
   None

18. Drilling Media and Characteristics:
   ☐ Air
   ☐ Water ☐xMud ☐ Foam ☐ Other

19. Proposed Depth:
   Measured: 5500'
   True Vertical:
   Reference Datum: GR MAT DF KS RT
   Casing Head Flange ☐ Other
   Setting Depth:
   Top 6-7' 6-7'
   Bottom 550' 550'

20. Elevation:
   Estimated 6070'
   Final 6070'
   Quantity of Cement
   To Surface
   To Surface

21. Existing and/or Proposed Casing and Cementing Program (List existing program first, followed by proposed program, and separate by a sufficient space to clearly distinguish the two programs):

SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT COUPLING (Collars & Threads) GRADE SETTING DEPTH QUANTITY OF CEMENT

Set 6-7' of 8-5/8" conductor pipe (optional)
7-7/8" 4-1/2" 11.5# 8RD ST&C K55 Surf. 6-7' 550' To Surface
Drill out cement plug and resume drilling with 3.782" OD (HO) wireline coring system.
Reduce core size to 2.980" OD (HO) as mandated by drilling conditions.

22. Proposed Work Summary

Approximate Kettleman designation: 83-20

See attached Drilling and Coring Procedure.

Manager, Projects & Environmental Affairs
Signed
Title
Date

Approved by
Title
Date

Conditions of Approval, If Any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(See instructions on reverse side)