

GEO-THERMAL DRILLING PERMIT

The U.S. Geological Survey requires this form or other Supervisor approved form to be prepared and filed in duplicate with requisite attachments with the Supervisor. The Supervisor must approve this permit prior to any lease operation.

1. TYPE OF WORK: DRILL NEW WELL () RE-DRILL () DEEPEN () PLUG BACK () DIRECTIONALLY DRILL () OTHER (X)

2. WELL TYPE: PRODUCTION () INJECTION () HEAT EXCHANGE () OBSERVATION () WATER SUPPLY () OTHER (X)

3. WELL STATUS:
NAME OF LESSEE/OPERATOR
GEO Operator Corporation (GEO-Newberry)

ADDRESS OF LESSEE/OPERATOR
2300 County Ctr. Dr. S#250 Santa Rosa, CA 95401

4. LOCATION OF WELL
At surface 3500' West & 2450' North of the Southeast corner of
At proposed prod. zone Section 25, T22S, R12E
N/A

5. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE
2.5 miles South of Inner Southern Boundary of Unit

6. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE
6.5 miles from N-2

7. DRILLING MEDIA AND CHARACTERISTICS: AIR ()
WATER () MUD (X) FOAM () OTHER ()

8. PROPOSED DEPTH
MEASURED: 4,000'
TRUE VERTICAL:

9. ELEVATIONS: ESTIMATED () FINAL (X) 5850'

REFERENCE DATUM: CG (X) NAT () OF () IS () XT ()
CASINGHEAD FLANGE () OTHER ()

10. 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
					Top	Bottom	
5-5/8"	4 1/2"	10.7#	Diamond Drill Flush Joint 3 threads/N	A-53	Surf	400'	25 cu.ft.
3-7/8"	2-7/8"	6.4#	Flush Joint	J-55	Surf	4,000'	147 cu.ft. Shur-Gel

11. PROPOSED WORK SUMMARY

Per Drilling Program as submitted.

(Use additional space on reverse side of form)

12. SIGNED Michael J. Cole TITLE Sr. Environmental Coordinator DATE 7-24-85

(This space for Federal use)
APPROVED BY Richard M. Molitor TITLE Acting Deputy State Director DATE 7-31-85

CONDITIONS OF APPROVAL, IF ANY: "APPROVED SUBJECT TO THE ATTACHED CONDITIONS" for Mineral Resources

This permit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States as to any matter within its jurisdiction.

(See instructions on reverse side)