

Form: DGS 9-1958

UNITED STATES DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY, CONSERVATION DIVISION

Form Approved  
 Subject Bureau No.

GEOTHERMAL SURVEY NOTICE

The U.S. Geological Survey requests 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 operations.

1a. WELL TYPE: PRODUCTION ( )	INJECTION ( )	HEAT EXCHANGE ( )	OBSERVATION ( )	OTHER (X)	4. LEASE SERIAL NO. OR 34669
Temperature Gradient Core Hole					5. SURFACE MANAGER: BLM ( ) FS ( ) Winema NF Other ( )
1b. WELL STATUS: Temporarily Abandon					6. LEASE AGREEMENT NAME Mazama I
2. NAME OF LESSEE/OPERATOR California Energy Company, Inc.					7. WELL NO. MZI-11A
3. ADDRESS OF LESSEE/OPERATOR 3333 Mendocino Ave., Ste. 100, Santa Rosa, CA 95401					8. PERMIT NO. See Above
11. LOCATION OF WELL OR FACILITY Approx. 2225' E and 725' N of SW Corner Sec. 10 T31S R7½E					9. FIELD OR AREA Winema Nat'l Forest
					10. SEC. T., R., S. & N. Sec. 10 T31S R7½E
					11. COUNTY Klamath
					12. STATE Oregon
14. TYPE OF WORK					
CHANGE PLANS	KX	CONVERT TO INJECTION	( )	PULL OR ALTER CASING	( )
SITE AND ROAD CONSTRUCTION	( )	FRACTURE TEST	( )	MULTIPLE COMPLETE	( )
CONSTRUCT NEW PRODUCTION FACILITIES	( )	SHOOT OR ACIDIZE	( )	ABANDON	( )
ALTER EXISTING PRODUCTION FACILITIES	( )	REPAIR WELL	( )	OTHER	( )

15. DESCRIBE PROPOSED OPERATIONS (Use this space for well activities only. See instructions for changing well conditions on reverse)

- a) Change permitted total depth from 4000' to 5500'±.
- b) Modify stipulations of Geothermal Drilling Permit to allow temperature gradient core hole drilling to proceed without fluid returns (circulation), as is standard safe and prudent procedure for coring operations.

Core hole MZI-11A is currently completed with 575 feet of 4-1/2" casing cemented back to surface and HQ (3-3/4") open hole to 1354 feet. There have been indications of no groundwater produced into the hole and an artificial fluid level of approximately 600 feet has been established through use of circulating pumps.

We request these modifications be made applicable to all deep temperature gradient core holes defined within CECI's Mazama I and Mazama II exploration permits.

16. DESCRIBE PROPOSED OPERATIONS (Use this space for all activities other than well work)

17. I hereby certify that the foregoing is true and correct

(Use reverse side if needed)

SIGNED James L. Moore TITLE Sr. Vice President Exploration DATE 10/29/86  
James L. Moore

(This space for Federal use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

This permit is required by Law (30 U.S.C. 1023); regulations: 30 CFR 270.34, 30 CFR 270.35, 30 CFR 270.45, 30 CFR 270.71-1, 30 CFR 270.72; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1201) 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.