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to 6 state 8/25/77
meeting

8/77
"LF State 4597"
21, 22, 23, 24
Gonzales
PRC 4597

CALENDAR ITEM

27.

APPROVAL OF PROPOSED DRILLING OF NEW WELLS
"LF STATE 4597" 21, 22, 23, and 24
GEYSERS STEAM FIELD
SONOMA COUNTY

LEASE: Union Oil Company of California
Magma Power Company
Thermal Power Company
P.O. Box 6854
Santa Rosa, California 95406

COUNTY: Sonoma

AREA: Geysers Geothermal Field

PERTINENT INFORMATION:

State Geothermal Resources Lease PRC 4597 was issued to Union Oil Company on May 27, 1971. On April 27, 1972, an undivided 25% interest in the lease was assigned to Magma Power Company and an undivided 25% interest was assigned to Thermal Power Company. Pursuant to the terms of the lease, Union has requested approval of the State Lands Commission to drill wells "LF State 4597" 21, 22, 23, and 24. The wells will be drilled from a single drillsite that has been inspected and approved by Division staff. The proposed drilling and completion programs have been reviewed by the staff and determined to be in accordance with good engineering practices and the rules and regulations of the Commission.

The wells will be used as makeup wells for generating Units No. 9 and No. 10. Currently steam is being supplied to these Units from wells on private lands. These wells should provide additional royalty income to the State of approximately \$200,000 per year.

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ENVIRONMENTAL IMPACT:

The Sonoma County Board of Zoning Adjustments, acting as lead agency, prepared and circulated an environmental impact report covering Union Oil Company's geothermal lease-hold operations.

By Notice of Determination issued on October 4, 1976, the Sonoma County Board of Zoning Adjustments certified that (1) the Environmental Impact Report was prepared pursuant to the provisions of the California Environmental Quality Act of 1970, as amended; (2) the project will not have a significant effect on the environment; and (3) the project has been approved by the Sonoma County Board of Zoning Adjustments. The Notice of Determination has been filed with the State Secretary for Resources, the State Lands Division, and the County Clerk for Sonoma County, wherein the project is to be undertaken.

State agencies concerned with geothermal operations were notified that the staff intended to recommend approval of these wells. The Department of Fish and Game responded to the notice and in a memo dated July 8, 1977 requested that another site be investigated due to the apparently high sensitivity and potential risk involved for the area in question. They based their concern on a generalized regional geologic map. Such a generalized map does not show sufficient detail to accurately determine the geologic stability of the drill site.

Therefore, on June 2, 1977, members of our staff inspected the drill site and subsequently reviewed the engineering logs of the drill pad. The pad is on a small isolated fault block of fractured Franciscan greenstone and not on a landslide. It has been concluded from this study that the area is suitably stable, however, there are several landslides in the area.

APPROVALS OBTAINED:

1. Sonoma County Board of Zoning Adjustments.

CALENDAR ITEM NO. 2.7. (CONTD)

2. State Division of Oil and Gas.
3. Northern Sonoma County Air Pollution Control District.
4. State North Coast Regional Water Quality Control Board.

FURTHER APPROVALS REQUIRED:
None.

EXHIBITS: A. Location Map. B. EIR Summary.

IT IS RECOMMENDED THAT THE COMMISSION:

1. DETERMINE THAT AN ENVIRONMENTAL IMPACT REPORT HAS BEEN PREPARED FOR THIS PROJECT AND CERTIFIED BY THE SONOMA COUNTY BOARD OF ZONING ADJUSTMENTS.
2. CERTIFY THAT THE INFORMATION CONTAINED IN THE ENVIRONMENTAL IMPACT REPORT OF THE SONOMA COUNTY BOARD OF ZONING ADJUSTMENTS HAS BEEN REVIEWED AND CONSIDERED BY THE COMMISSION.
3. DETERMINE THAT THE PROJECT WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.
4. AUTHORIZE THE APPROVAL OF DRILLING WELLS "LF STATE 4597" 21, 22, 23, AND 24 IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF STATE GEOTHERMAL RESOURCES LEASE PRC 4597 AND THE RULES AND REGULATIONS OF THE COMMISSION.