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8/16/78

GL03196-2 of 2

AUG 25 1978 *Doss*  
*Central Files*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Area Geothermal Supervisor's Office  
Conservation Division, MS 92  
345 Middlefield Road  
Menlo Park, CA 94025

AUG 16 1978

Memorandum

To: INTERESTED PARTIES

From: *Acting* Area Geothermal Supervisor

Subject: Plans of Operation for Development, Production, Utilization,  
and Injection, Union Oil Co. of California, Federal Lease  
CA-1863, Geysers KGRA, Sonoma County, CA  
Ref: 1760 CA-1863 (POO for EA#114-8)

Union Oil Co. of California submitted Plans of Operation to this office on July 17, 1978. These Plans describe the development, production, injection, and utilization of the geothermal resource on Federal Lease CA-1863, Geysers KGRA, Sonoma County, California. The purpose of the plans is to provide steam for the PG&E's geothermal power plant Unit 12. Copies of the Plans of Operation are attached for your review, comments, and files.

In accordance with 30 CFR 270.34 (K), Union conducted an environmental base line study for one year on the leased area. A copy of this material will be kept at this office for your inspection. The results of the study are currently being reviewed by this office. Following our review, we will prepare Environmental Analysis (EA) #114-8 to consider the environmental impacts of the plans.

According to the proposed plans, there will be no additional surface disturbance on Federal Lease CA-1863. Therefore, a field inspection is not considered necessary for this proposal. You are encouraged, however, to visit the site at your own convenience. Further guidance can be provided by Ted Hudson, Santa Rosa District Geothermal Supervisor (Tel: (707) 525-4326, FTS: 623-1326). Visitors should inform the Santa Rosa office as to when they propose to be on the site.

A Geothermal Environmental Advisory Panel (GEAP) meeting is not scheduled at this time. We will inform you if one is scheduled at a later date.

Your comments concerning the proposed plans must be received no later than September 7, 1978 by:

Area Geothermal Supervisor  
Conservation Division  
U.S. Geological Survey  
345 Middlefield Rd., MS 92  
Menlo Park, CA 94025  
Tel: (415) 323-8111, Ext. 2848

UNIVERSITY OF UTAH  
RESEARCH INSTITUTE  
EARTH SCIENCE LAB.

We urge you to send written commentary and will appreciate hearing from you even if you are of the opinion that the existing regulations, lease terms, and operational orders provide adequate environmental protection. All comments will be given serious consideration in the preparation of the environmental analysis and any subsequent conditions of approval thereafter.

The Area Geothermal Supervisor's Office will not send draft Environmental Analysis (EA#114-8) to interested parties for review for the proposed actions. Certain parties however, such as the surface managing agency, lessee, and the Geothermal Environmental Advisory Panel (GEAP) will receive a copy of the completed EA#114-8. Other interested parties will not receive a copy of the final EA unless such parties comment on the proposed actions in writing or request a copy of the EA pursuant to the Freedom of Information Act. Copies of the Environmental Analysis are available for inspection during normal business hours at the Area Geothermal Supervisor's Office, the appropriate District Geothermal Supervisor's Office, and the appropriate Bureau of Land Management, District Manager's Office.

*Kirk Caspell*

INTERESTED PARTIES EA#114-8  
UNION OIL COMPANY OF CALIFORNIA  
EA#114-8

Plans of Operation - Development, Production, Utilization, and Injection  
Federal Lease CA-1863  
Geysers KGRA  
Sonoma County, California

USGS-Conservation Division  
Attn: Ted Hudson  
District Geothermal Supervisor  
777 Sonoma Ave., Federal Bldg., Rm. 213  
Santa Rosa, CA 95404  
(707) 525-4326  
FTS: 8-623-1326

U.S. Bureau of Land Management  
Geothermal Specialist  
Attn: Theodore W. Holland  
Denver Federal Center, Bldg. 50 (D-310)  
Denver, CO 80225  
(303) 234-5098  
FTS: 234-5098

USGS-Conservation Division  
Conservation Manager, Western Region  
Attn: Environmental Staff  
345 Middlefield Road, MS 80  
Menlo Park, CA 94025  
(415) 323-8111, Ext. 2093  
FTS: 467-2093

U.S. Fish and Wildlife Service  
Office of Biological Services  
Attn: L.A. Mehrhoff  
Geothermal Advisor - Region I  
4620 Overland Road, Room 210  
Boise, Idaho 83705  
(208) 834-1931  
FTS: 554-1931

USGS-Conservation Division  
Attn: Henry Cullins  
Area Geologist, Pacific Area  
345 Middlefield Road, MS 80  
Menlo Park, CA 94025  
(415) 323-8111, Ext. 2053  
FTS: 467-2053

U.S. Fish and Wildlife Service  
Attn: Felix Smith, Field Supervisor  
2800 Cottage Way, Rm. E-2727  
Sacramento, CA 95825  
(916) 484-4731  
FTS: 468-4731

Geothermal Environmental Adv. Panel  
Attn: Max Crittenden, Chairman  
345 Middlefield Road, MS 75  
Menlo Park, CA 94025  
(415) 323-8111, Ext. 2317  
FTS: 467-2317

U.S. Department of Energy  
Div. of Geothermal Energy, 3rd Floor  
Attn: Ronald Toms  
20 Massachusetts Ave., NW  
Washington, D.C. 20545  
(202) 376-4908  
FTS: 376-4908

U.S. Bureau of Land Management  
State Director  
Federal Office Bldg.  
2800 Cottage Way, Rm. E-2841  
Sacramento, CA 95825  
(916) 484-4676  
FTS: 468-4676

U.S. Environmental Protection Agency  
Environmental Monitoring & Support Lab  
Attn: Michael O'Connell  
P.O. Box 15027  
Las Vegas, NV 89114  
(702) 736-2969  
FTS: 595-2969

U.S. Bureau of Land Management  
District Office  
555 Leslie Street  
Ukiah, CA 95482  
(707) 462-3873

State of California  
Dept. of Fish & Game  
Attn: Don Lollock  
1416 Ninth St.  
Sacramento, CA 95814  
(916) 455-1383  
FTS: 465-1383

State of California  
Dept. of Fish and Game  
Attn: John Emig  
P.O. Box 47  
Yountville, CA 94599  
(707) 944-2443

State of California  
Department of Conservation  
Division of Oil & Gas  
5199 E. Pacific Coast Hwy., Suite 309-N  
Long Beach, CA 90804  
(213) 590-5311

State of California  
Division of Oil and Gas  
Attn: Jack Miller  
240 "D" Coddington Center  
Santa Rosa, CA 95401  
(707) 525-0479

State of California  
Dept of Parks & Recreation  
State Resources Agency  
Attn: Knox Mellon, SHPO  
P.O. Box 2390  
Sacramento, CA 95811  
(916) 445-2358

State of California  
Calif. Regional Water Quality Control Board  
North Coast Region  
Attn: David Snetsinger  
1000 Coddington Center  
Santa Rosa, CA 95401  
(707) 545-2620

State of California  
Public Utilities Commission  
Attn: William N. Foley  
350 McAllistis St., Rm. 5069  
San Francisco, CA 94102

State of California  
Water Resources Control Board  
Attn: Alvin Franks  
P.O. Box 100  
Sacramento, CA 95801  
(916) 322-4548

State of California  
Water Resources Division  
Attn: Ben E. Lofgren  
Rm. W-2528, Federal Bldg.  
2800 Cottage Way  
Sacramento, CA 95825  
(916) 482-4258  
FTS: 482-4258

Sonoma County Planning Director  
Attn: Tom Cordill  
County Admin. Bldg., Rm. 105A  
255 Mendocino Ave.  
Santa Rosa, CA 95401  
(707) 527-2412

Lake County Planning Director  
Attn: Don Johnson  
255 N. Forbes Street  
Lakeport, CA 95453  
(707) 263-5471, Ext. 248

State of California  
Governor's Office of Planning & Research  
State Clearing House  
Attn: Bill Kirkham  
1400 Tenth Street  
Sacramento, CA 95814  
(916) 445-0613  
FTS: 465-0613

Aminoil USA, Inc.  
Attn: J.W. Kunau  
P.O. Box 11279  
Santa Rosa, CA 95406  
(707) 527-5333

AMAX Exploration  
Attn: Larry Hall  
4704 Harlan Street  
Denver, CO 80212  
(303) 433-6151

Anadarko Production Company  
Attn: John Syptak  
P.O. Box 1330  
Houston, TX 77001  
(713) 526-5421

Calif. Energy Company, Inc.  
Attn: Paul V. Storm  
P.O. Box 3909  
Santa Rosa, CA 95402  
(707) 526-1000

CER Corporation  
Attn: Joy Hyde  
P.O. Box 15090  
Las Vegas, NV 89114  
(702) 735-7136

Chevron USA, Inc.  
Attn: J.G. Turner/ P.Smith  
P.O. Box 3722  
San Francisco, CA 94119  
(415) 894-2726

Dresser Industries  
MAGCOBAR Division  
Attn: Jim Fox  
475 17th Street, Suite 1600  
Denver, CO 80202

Earth Science Laboratory  
University of Utah Research Institute  
Research Park  
391 Chipeta Way  
Salt Lake City, Utah 84108  
(801) 581-5226

Energy and Natural Resources Consultants  
Attn: Richard Jodry  
P.O. Box 941  
Richardson, TX 75080

Geothermal Power Corp.  
Attn: Frank G. Metcalfe  
P.O. Box 1186  
Novato, CA 94947  
(415) 897-7833

Geothermal Resources Council  
Attn: Mr. David Anderson  
P.O. Box 98  
Davis, CA 95616

GeothermEx, Inc.  
Attn: James B. Koenig  
901 Mendocino Ave.  
Berkeley, CA 94707  
(415) 524-9242

Getty Oil Company  
Attn: Dan W. Sparks  
P.O. Box 5237  
Bakersfield, CA 93308  
(805) 399-2961

Gulf Mineral Resources Co.  
Exploration Department  
Attn: E.W. Westrick  
1720 S. Bellaire St.  
Denver, CO 80222  
(303) 758-1700

Hydro-Search, Inc.  
Attn: Virgil Wilhite  
333 Flint St.  
Reno, Nevada 89501  
(702) 322-4173

ICF, Inc.  
Attn: Doug Fried  
1850 K Street, NW  
Washington, D.C. 20006  
(202) 862-1100

Magma Electric Company  
Attn: Tom Hinrichs  
P.O. Box 2082  
Escondido, CA 92025  
(714) 743-7008

Magma Power Company  
Attn: Dick Foss  
631 S. Witmer St.  
Los Angeles, CA 90017  
(213) 483-2285

Mr. Clyde E. Kuhn  
P.O. Box 69  
Davis, CA 95616 F2

Mr. Warren M. Woodward  
125 Drew Dr.  
Reno, NV 89502  
(702) 825-3079

Mr. Jack McNamara  
10850 Wilshire Blvd., Suite 790  
Los Angeles, CA 90024  
(213) 826-8269

Native American Heritage Commission  
Attn: Stephen Rios  
1400 10th Street  
Sacramento, CA 95814  
(916) 322-7791

Occidental Geothermal, Inc.  
Attn: B.J. Wyant  
5000 Stockdale Highway  
Bakersfield, CA 93309  
(805) 327-7351

Phillips Petroleum Company  
Geothermal Operations  
P.O. Box 239  
Salt Lake City, UT 84110  
(801) 364-2083

Republic Geothermal, Inc.  
Attn: Dwight Carey  
P.O. Box 3388  
Santa Fe Springs, CA 90670  
(213) 945-3661

Republic Geothermal, Inc.  
Attn: J.L. Sheidenberger  
2544 Cleveland Avenue  
Santa Rosa, CA 95401  
(707) 527-7755

Shell Oil Company  
Attn: Fred Nantker  
Worldway Center  
P.O. Box 92047  
Los Angeles, CA 90009  
(805) 648-2751

Sonoma State College  
Attn: Dr. David A. Fredrickson  
1801 E. Cotati Ave.  
Rohnert Park, CA 94928

Sunoco Energy Development Co.  
Attn: C.T. Clark, Jr.  
12700 Park Central Pl., Suite 1500  
Dallas, TX 75251  
(214) 233-2600, Ext. 515

Thermal Power Company  
Attn: K.R. Davis  
601 California Street  
San Francisco, CA 94108  
(415) 981-5700

Union Oil Company of California  
Geothermal Division  
Attn: Neil J. Stefanides  
Union Oil Center, Box 7600  
Los Angeles, CA 90051

Union Oil Company  
1250 Coddington Center  
P.O. Box 6854  
Santa Rosa, CA 95406

VTN, Consolidated, Inc.  
Attn: Richard A. Hallet  
P.O. Box C-19529  
Irvine, CA 92713  
(714) 833-2450

Mrs. John Kramer  
998 Rine Street  
Ukiah, CA 95482  
(707) 462-6348

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720 Brookfield Drive  
Reno, NV 89503  
(702) 322 2867

Sierra Club  
Attn: Mike Eaton  
1107 9th Street, Room 419  
Sacramento, CA 95814  
(916) 444-9132