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UNITED STATES DEPARTMENT OF THE INTERIOR

JUL 9 1979

GEOLOGICAL SURVEY

Area Geothermal Supervisor's OfficeUNIVERSITY OF UTAH Conservation Division, MS-92 345 Middlefield Road Menlo Park, CA 94025

RESEARCH INSTITUTE EARTH SCIENCE LAB.

JUL 2 1979

Memorandum

To:

INTERESTED PARTIES

From:

Area Geothermal Supervisor

Subject:

Plan of Operation, Sunoco Energy Development Company

(Sunedco), Dixie Valley KGRA, Churchill County, Nevada

Ref: 2403-01 POO for EA #135-9

Sunoco Energy Development Company has submitted a Plan of Operation in accordance with 30 CFR 270.34 to drill one (1) geothermal well on Federal Lease N-12393 in Dixie Valley KGRA, Churchill County, Nevada. A copy of the Plan of Operation is attached for your review and files.

An Environmental Checklist Analysis (EA #135-9) will be prepared by the Office of the Area Geothermal Supervisor for the proposed action. A field inspection was held on the subject lease on May 2, 1979; no additional field inspection is considered necessary at this time. You are encouraged to visit the site at your own convenience. Any inquiries should be directed to Mr. Bernie Moroz, District Geothermal Supervisor, Kietzke Plaza, Building D, Suite 137, Reno, Nevada (Telephone: (702) 784-5676; FTS 470-4676).

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 concerning the proposed actions should be received no later than July 18, 1979:

> Area Geothermal Supervisor U.S. Geological Survey Conservation Division 345 Middlefield Road, MS-92 Menlo Park, CA 94025 (415) 323-8111 X2845; (FTS) 467-2841

All comments will be given serious consideration in the preparation of the Environmental Analysis and any subsequent conditions of

approval. The Area Geothermal Supervisor's Office will not send a draft Environmental Analysis to interested parties for review for the proposed action. Certain parties, however, such as the surface managing agency, the lessee, the Geothermal Environmental Advisory Panel and the U.S. Fish and Wildlife Service will receive a copy of the completed EA. Other interested parties will not receive a copy of the final EA unless such parties comment on the proposed action in writing or request a copy of the particular EA pursuant to the Freedom of Information Act. Copies of Environmental Analyses are available for inspection during normal business hours at the Area Geothermal Supervisor's Office, and the Carson City Bureau of Land Management District Manager's Office.

Kink Carall

Fol Reid T. Stone

Attachment

INTERESTED PARTIES EA #135-9

Sunoco Energy Development Co Plan for Exploration/Drilling N-12393 Dixie Valley

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District Geothermal Supervisor USGS, Conservation Division Kietzke Plaza, Bldg. D, Suite 137 4600 Kietzke Reno, Nevada 89502 *ETS: 470-5676 Comm: 704-784-5676

Mr. Henry Cullins
Area Geologist, Pacific Area
USGS-Conservation Division
345 Middlefield Road, MS 80
Menlo Park, California 94025
*FTS: 467-2053 Comm: 415-323-8111

U.S. Bureau of Land Management Geothermal Specialist ATTN: Theodore W. Holland Denver Fed. Center, B. 50 (D-310) Denver, Colorado 80225 *FTS: 234-5098 Comm: 303-234-5098

Carson City District Manager, Bureau of Land Management 1050 E. Williams Street, Suite 335 Carson City, Nevada 89701 *FTS 470-5612 Comm: 702+882-1631

U.S. Bureau of Reclamation ATIN: Lloyd Osbourne Post Office Box 640 Carson City, Nevada 89701 *Tel: (702) 882-3436

U. S. Fish and Wildlife Service ATIN: Gail Kobeditich Endangered Species Office 2800 Cottage Way, Room E-2720 Sacramento, California 95825 *FIS: 468-4516 Comm: 916-484-4516

Department of Energy, Geothermal ATIN: Bennie DiBona 20 Massachusetts Avenue, NW Washington, D.C. 20545 *FTS 376-1690 Comm: 202-376-1690

Ms. Mary Rusco, Archaeologist Nevada State Museum 600 N. Carson Street Carson City, Nevada 89701 *Tel: (702) 885-4810 Conservation Manager, Western Region ATTN: Environmental Staff USGS, Conservation Division 345 Middlefield Rd., MS 80 Menlo Park, California 94025 *FTS: 467-2108 Comm: 415-323-8111

Or. G. D. Robinson, Chairman Geothermal Environmental Advisory Panel 345 Middlefield Road, MS 19 Menlo Park, California 94025 *FIS 467-2871 415-323-8111 X2871

Nevada State Director Bureau of Land Management Federal Building, Room 3008 300 Booth Street Reno, Nevada 89509 *FTS 470-5451 Comm: 702-784-5451

Winnemucca District Manager Bureau of Land Management P.O. Box 71 Winnemucca, Nevada 89445 *FTS: 470-5423 Comm: 702-623-3676

U.S. Fish and Wildlife Service ATIN: Field Superv Ecological Serv 2800 Cottage Way Sacramento, California 95825 *FIS: 468-4516 Comm: 916-484-4516

U.S.Environmental Protection Agcy. Environmental Monitoring & Support Laboratory AITN: Michael O'Connell P.O.Box 15027 Las Vegas, Nv 89114 *FTS: 595-2969 Comm: 702-736-2969

U.S. Department of Energy, Nevada Operations Office AITN: John Cummings Post Office Box 14100 Las Vegas, Nevada 89114 *FTS: 598-3591 Comm: 702-734-3591

Nevada Bureau of Mines and Geology ATTN: Larry Garside - Geoth Spect University of Nevada Reno, Nevada 89507 *Comm: 702-784-6691

INTERESTED PARTIES for EA #135-9

State Uf Nevada
Department of Energy
1050 E. William, Suite 405
Carson City, Nevada 89701
*Tel: (702) 885-5157

Mr. Ray Corlett, Regional Manager Nevada Dept. of Fish and Game 380 West B Street Fallon, Nevada 89406 *Tel: (702) 423-3171

State of Nevada, Div of Historic Preservation and Archaeology ATTN: Kimberly Wood,, SHPD 201 South Fall St. Capitol Complex Carson City, Nevada 89710 *Tel: (702) 885-5138

State of Nevada, Planning Coordinator ATTN: Bob Hill 1050 E. Williams, Suite 402 Capitol Plaza Carson City, Nevada 89701 *Tel: (702) 885-4865

State of Nevada, Pershing County ATTN: E.L. Spencer Pershing County Planning Director Route 1, Box 71-D Lovelock, Nevada 89419 *[el: (702) 273-2636

Office of Review and Compliance Advisory Council on Historic Preservation ATIN: Michael H. Bureman P.O. Box 25085 Denver, Colorado 80225

Lawrence Livermore Laboratory Box 5507, Mail Code L-523 Livermore, California 94550 *FIS 532-1100 Comm: 415-422-1100

Exploration Geologists of Nevada AIIN: Ralph D. Mulhollen P.O. Box 3043 Reno, Nevada 89505 State of Nevada, Environ Protection Agency Svcs, Dept of Cons & Res ATTN: Wendell McCurry, Vern Ross 201 Fall Street Capitol Complex, Nevada 89710 *Tel: (702) 885-4670

State of Nevada Department of Fish and Game ATTN: Mr. Dale V. Lockhard Post Office Box 10678 Reno, Nevada 89510 *Tel: (702) 784-6214

State of Nevada, Div of State Lands ATTN: Mary Lee Chronberg 201 S. Fall Street Capitol Complex, Rm. 339 Carson City, Nevada 89710 *Tel: (702) 885-4363

State of Nevada
Division of Water Resources
C/O State Engineer
201 South Fall Street
Carson City, Nevada 89710
*Tel: (702) 885-4380

Churchill County, Board of Commissioners
10 West Williams Street
Fallon, NV 89406
*Iel: (702) 423-4092

Earth Science Laboratory
Univ of Utah Pesearch Institute
ATIN: Phillip M. Wright
420 Chipeta Way, Suite 120
Salt Lake City, Utah 84108
*Tel (801) 581-5263

Mrs. Margaret Williams Director, Northern Nevada Native Plant Society P.O. Box 8965 Reno, Nevada 89507

Amax Exploration, Incorporated ATIN: Mr. Earry Hall 4704 Harlan Street Denver, Colorado 80212 **FTS 234-3131 (303-433-6151)

INTERESTED PARTIES for EA #135-9

Chevron USA, Inc. AIIN: J.G. Turner and Pat Smith Post Office Box 3722 San Francisco, California 94119 *Tel: (415) 894-2726

Geothermal Power Corporation AIIN: Mr. Frank Metcalfe 1127 Grant Avenue, Suite 6 P.U. Box 1186 Novato, Califonia 94947 *Comm: 415-897-7833

Getty Oil Company ATTN: Mr. Dan W. Sparks Post Office Box 5237 Bakersfield, California 93308 *Tel: (805) 399-2961

Hunt Energy Corporation Attn: Geothermal Department 2500 First National Bank Building Dallas, Texas 75202 *FTS 749-1011 748-1300

Occidental Geothermal, Inc. AITN: 8.J. Wyant 5000 Stockdale Highway Bakersfield, California 93309 *Iel: (805) 327-7351

Republic Geothermal, Incorporated ATIN: Mr. Dwight Carey, and Ms. Fawna Nichols Post Office Box 3388 Santa Fe Springs, California 90607 *Tel: (213) 945-3661

Shell Oil Company ATTN: Mr. F.W. Nantker Post Office Box 92047 Worldway Center Los Angeles, California 90009 *Tel: (805) 648-2751

Republic Geothermal, Incorporated Nothern California Office ATIN: J. L. Schneidenberger 2544 Cleaveland Avenue Santa Rosa, California 95401 *Comm: 707-527-7755 GeothermEx, Inc Attn: James B. Koenig 901 Mendocino Avenue Berkeley, California 94707 *Comm: 415-524-9242

Geothermal Resources Council Attn: Mr. David Anderson R.O. Box 98 Davis, CA 95616 *Comm: 916-758-2360

Gulf Mineral Resources Company Exploration Department ATTN: Mr. Glen Campbell 1720 South Belaire Street Denver, Colorado 80222 *FIS Ope: 327-0111 303-758-1700

Magma Power Company AITN: Mr. Richard Foss 631 S. Witmer Street Los Angeles, California 90017 *Tel: (213) 483-2285

Phillips Petroleum Company ATIN: R.T. Forest Energy Minerals Division Post Office Box 6256 Reno, Nevada 89513 *Tel: (702) 786-2273

SAYWRIGHT Corporation ATIN: Mr. Wayne L. Sayer Post Office Box 229 Fairfield, California 94533 *Iel: 707-429-5777

Sunoco Energy Development Company ATTN: Mr. John Williams Suite 1500 -- Box 9 12700 Park Central Place Dallas, Texas 75251 *FTS Ope: 749-1011 214-233-2600

Southland Royalty Company
AITN: Jere Denton
1000 Fort Worth Club Tower
Fort Worth, Texas 76102
*FTS Opr: 334-3001 (817)390-9200

INTERESTED PARTIES for EA #135-9

Thermal Power Company AIIN: Mr. Lou DeLeon 601 California Street, Suite 1302 San Francisco, California 94108 *415-981-5700

Aminoil USA, Incorporated ATTN: Mr. C. E. Woods Post Office Box 11279 Santa Rosa, California 95406 *FTS Ope: 623-1011 707-527-5333/2

Phillips Petroleum Company Geothermal Operations ATTN: Bob Wright Post Office Box 239 Salt Lake City, Utah 84110 *Comm: 801-364-2083

Mr. Warren M. Woodward 125 Drew Drive Reno, Nevada 89502 *FTS 470-5911 702-825-3079 Union Oil Company of California Geothermal Division AITN: Neil Stefanides Union Oil Center, Box 7600 Los Angeles, California 90051 *213-486-7740

Anadarko Production Company ATIN: Mr. R. C. Edmiston Post Office Box 1330 Houston, lexas 77001 *FTS Ope: 527-4011 713-526-5421

Mr. Clyde E. Kuhn Post Office Box 69 Davis, California 95616

Mr. Jack McNamara 10850 Wilshire Blvd, Suite 790 Los Angeles, California. 90024 *Tel: (213) 475-4933 The plan is to drill an additional exploratory well in Dixie Valley, Nevada, to a depth of approximately 8,500 feet.

- (a) The proposed location of the well is shown on the attached topo map. A rig layout showing the position of the mud tanks, reserve pits, pipe racks, and other surface facilities is also attached.
- (b) Existing and planned access and lateral roads are shown on the topo map for this well.
- (c) Location of Water Supply

Water supply will be the same as shown in well 22-24, 24N-36E, below.

Well 22-24, 24N-36E

A water supply well will be drilled approximately 200 feet north of the well and water piped to the well.

Road Building Material

A separate application has been applied for from the BLM and a site suitable to BLM will be designated for our use. (See Attachment #1.)

- (d) A campsite will be located on fee land in the SW SW quarter, Section 7-24N-37E.
- (e) There should be no other areas of surface disturbance except those as listed here and as shown on the attached topo map.
- (f) The topographic features and drainage features are depicted on the topo map.
- (g) Methods of disposing of existing materials are discussed in the environmental section and the drilling plans.

Methods used to protect the environment are discussed in the environmental section.

All pertinent information required for proper and timely consideration of the Plan of Operation should be included herein. If any other data are required, we will furnish them. Various required data will be taken throughout operations to ensure that the plan is being followed and that we are in compliance with applicable rules, regulations, and GRO orders.

(h) Should sufficient geothermal resources be encountered during the exploratory phase of the Plan of Operation, a one-year baseline datum will subsequently be initiated to address other environmental requirements.

PROPOSED WELL LOCATION CHURCHILL COUNTY, NEVADA

1,950' FEL and 1,200' FNL, Section 24-24N-36E

Soils

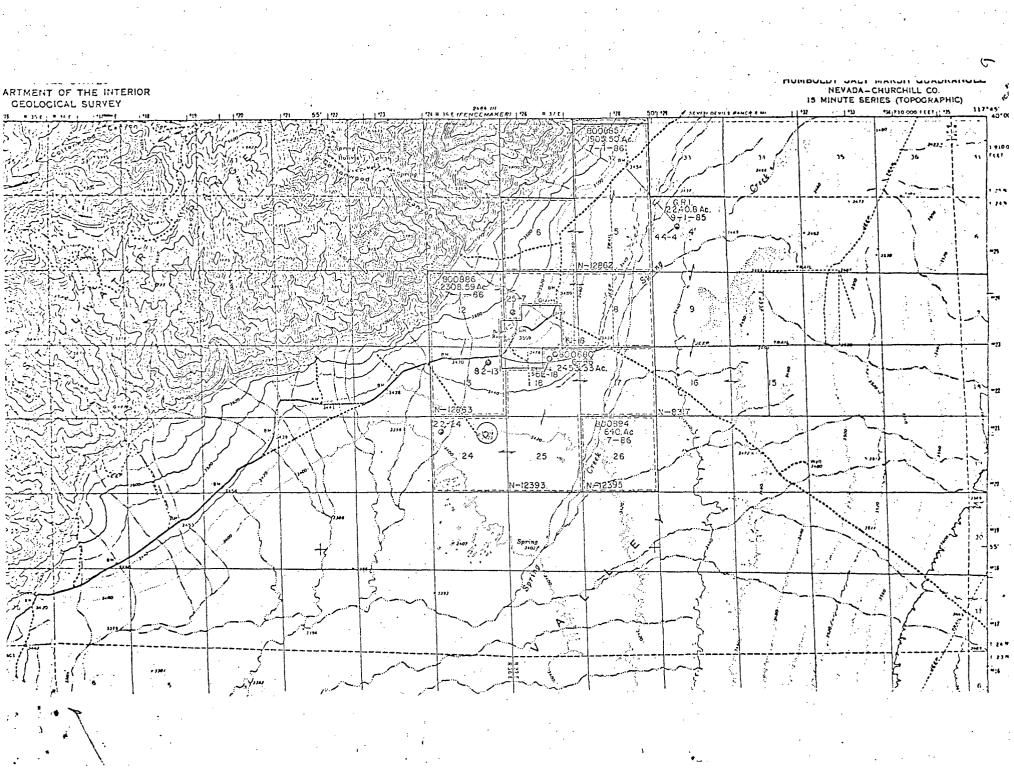
Mostly gray-brown silt-clay, salt crust on surface.

Vegetation

Sparse saltgrass, pickle weed, and greasewood.

Topography

Flat



CULTURAL RESOURCES STATEMENT

A field inventory of the proposed drilling site is being conducted by an approved archaeologist and will be submitted to the supervising BLM office. A copy of the report will be forwarded as soon as we receive it.

PLANT SURVEY

A botanical field inventory of the proposed drilling area has been scheduled. A copy of the report will be forwarded as soon as we receive it.