

AREA
NV
Church

602444

DEC 6 1979



UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Area Geothermal Supervisor's Office
Conservation Division, MS 92
345 Middlefield Road
Menlo Park, CA 94025

NOV 30 1979

Memorandum

To: INTERESTED PARTIES
From: ^{Acting} Area Geothermal Supervisor

UNIVERSITY OF UTAH
RESEARCH INSTITUTE
EARTH SCIENCE LAB.

Subject: Unit Plan of Operation, Chevron USA, Inc., Soda Lake Unit, Churchill County, Nevada
Ref: 2404-02a POO for EA #144-80

Chevron USA, Inc. has submitted a Unit Plan of Operation in accordance with 30 CFR 270.34 to drill one (1) geothermal well on Federal Lease N-11733, in Soda Lake Unit, Churchill County, Nevada. A copy of the Plan of Operation is attached for your review and files.

An Environmental Checklist Analysis (EA #144-80) 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 November 20, 1978; 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, 4600 Kietzke Lane, Reno, Nevada (Tel: (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 December 16, 1979:

Area Geothermal Supervisor
U.S. Geological Survey
Conservation Division
345 Middlefield Road - MS 92
Menlo Park, CA 94025
415-323-8111, x 2848; FTS 467-2848

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 routinely distribute copies of the completed final EA to the surface managing agency, the lessee, the Geothermal Environmental Advisory Panel (GEAP) and the U.S. Fish and Wildlife Service. Other interested parties may receive a copy of the final EA upon request. Copies of EA's will also be available for inspection during normal business hours at the Area Geothermal Supervisor's office, the District Geothermal Supervisor's office, Reno, Nevada and the BLM, Carson City District Manager's office.


for Reid T. Stone

Attachment

INTERESTED PARTIES EA #144-89

CHEVRON U.S.A., Inc.
Unit P00 -- 1 Exploratory Well

N-11737
Soda Lake Area

* * * * *

District Geothermal Supervisor
USGS, Conservation Division
Kierzke Plaza, Bldg. D, Suite 137
4600 Kierzke
Reno, Nevada 89502
*FIS: 470-5676 Comm: 702-784-5676

Conservation Manager, Western Region
ATTN: Environmental Staff
USGS, Conservation Division
345 Middlefield Rd., MS 80
Menlo Park, California 94025
*FIS: 467-2108 Comm: 415-323-8111

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

Dr. E. D. Robinson, Chairman
Geothermal Environmental Advisory
Panel
345 Middlefield Road, MS 19
Menlo Park, California 94025
*FIS 467-2871 415-323-8111 22571

Mr. Theodore W. Holland
U.S. Bureau of Land Management
550 W. Forth St., Box 042
Boise, Idaho 83724

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

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

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

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

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

U.S. Environmental Protection Agency
Environmental Monitoring &
Support Laboratory
ATTN: Michael O'Connell
P.O. Box 15027 Las Vegas, NV 89114
*FIS: 595-2969 Comm: 702-736-2969

Department of Energy, Geothermal
ATTN: Jennie DiCora
20 Massachusetts Avenue, NE
Washington, D.C. 20545
*FIS 376-1690 Comm: 202-376-1690

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

Ms. Mary Busco, Archaeologist
Nevada State Museum
600 W. Carson Street
Carson City, Nevada 89701
*Tel: (702) 885-4810

Nevada Bureau of Mines and Geology
ATTN: Larry Garside - Geoth. Spec.
University of Nevada
Reno, Nevada 89507
*Comm: 702-784-6671

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

INTERESTED PARTIES for EA #144-80

State of Nevada, Environ Protection
Agency Svcs, Dept of Cons & Res
ATTN: Wendell McCurry, Vern Boss
201 Fall Street
Capitol Complex, Nevada 89710
*Tel: (702) 885-4670

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

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

State of Nevada, Div of State Lands
ATTN: Jac Shaw, Jim Hansen
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

Earth Science Laboratory
Univ of Utah Research Institute
ATTN: Phillip M. Knight
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

State of Nevada
Department of Fish and Game
ATTN: Mr. Dale V. Lockhard
Post Office Box 10578
Reno, Nevada 89510
*Tel: (702) 784-6214

State of Nevada
Department of Human Resources
ATTN: Lou Dodgin
Capitol Complex
1209 Johnson Street
Carson City, Nevada 89710

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

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

Office of Review and Compliance
Advisory Council on Historic
Preservation
ATTN: 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
ATTN: Ralph D. Mulhollen
P.O. Box 3043
Reno, Nevada 89505

INTERESTED PARTIES for EA #144-80

Amax Exploration, Incorporated
ATTN: Mr. Larry Hall
7100 West 44th Avenue
Wheatridge, Colorado 80033
*FIS: 234-3131 (303-426-8100)

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

GeothermEx, Inc.
Attn: James B. Koenig
901 Mendocino Avenue
Berkeley, California 94707
*Comm: 415-524-9242

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

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

Betty Oil Company
ATTN: Mr. Len W. Sparks
Post Office Box 5237
Bakersfield, California 93388
*Tel: (805) 399-2961

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

Hunt Energy Corporation
Attn: Geothermal Department
2500 First National Bank Building
Dallas, Texas 75202
*FIS 729-4011 798-1300 (Mr. Bowers)

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

Magma Electric Company
ATTN: Tom Hinrichs
Post Office Box 2082
Escondido, CA 92025
*Tel: (714) 743-7002

Occidental Geothermal, Inc.
ATTN: B.J. Wyant
5000 Stockdale Highway
Bakersfield, California 93309
*Tel: (805) 327-7351

Pacific Gas & Electric Co.
ATTN: Dan Doyer
77 Beale Street, Room 2362
San Francisco, CA 94105
*Tel: 415-781-4211, ext 3340

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

Republic Geothermal, Incorporated
ATTN: Mr. Dwight Carey, and
Ms. Janna Nichols
Post Office Box 3998
Santa Fe Springs, California 90670
*Tel: (213) 945-3661

Republic Geothermal, Incorporated
Northern California Office
ATTN: J. L. Schneidenger
1011 College Avenue, Suite 220
Santa Rosa, California 95404
*Comm: 707-527-7755

INTERESTED PARTIES for EA #144-80

San Diego Gas and Electric Company
 ATTN: Larry Grogan/J.M. Bugent
 P.O. Box 1831
 San Diego, California 92112
 *Tel: (714-232-4252, Ext. 1715/1903)

SAYWRIGHT Corporation
 ATTN: Mr. Wayne L. Saver
 Post Office box 229
 Fairfield, California 94535
 *Tel: 707-429-5777

Shell Oil Company
 ATTN: Mr. F.W. Mantker
 Post Office Box 42047
 Worldway Center
 Los Angeles, California 90009
 *Tel: (805) 648-2751

Sunoco Energy Development Company
 ATTN: Mr. John Williams
 Suite 1500 -- Box 9
 12700 Park Central Place
 Dallas, Texas 75251
 *FIS 729-4011 214-233-2600

Southland Royalty Company
 ATTN: Jere Denton
 1000 Fort Worth Club Tower
 Fort Worth, Texas 76102
 *FIS Op: 334-3001 (817)399-9200

Supron Energy Corporation
 Bldg. V, Fifth Floor
 10500 North Central Expressway
 Dallas, TX 75231
 *Tel: (214) 691-9141
 Mark Reece

Thermal Power Company
 ATTN: Mr. Richard Miller
 601 California Street, Suite 1302
 San Francisco, California 94108
 *415-981-5700

Union Oil Company of California
 Geothermal Division
 ATTN: Neil Stefanides
 Union Oil Center, PO Box 7600
 Los Angeles, California 90051
 *213-486-7700

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

Anadarko Production Company
 ATTN: Mr. R. C. Edmiston
 Post Office box 1330
 Houston, Texas 77001
 *FIS Ope: 527-4011 713-526-5421

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

Mr. Clyde E. Kuhn
 Cultural Resources Management, Inc
 Post Office box 69
 Davis, California 95616

Mr. G. Martin Booth, III
 4275 Hackamore Drive
 Reno, Nevada 89502
 *FIS 470-5911 (702-747-3453)

Mr. Jerry H. Clay
 618 Fair Foundation building
 Tyler, Texas 75702

Mr. Warren N. Woodward
 125 Drew Drive
 Reno, Nevada 89511
 *FIS 470-5911 702-625-3079

Mr. Jack McKamara
 10850 Wilshire Blvd, Suite 790
 Los Angeles, California 90024
 *Tel: (213) 475-4933

San Francisco, CA
November 5, 1979

Proposed Supplemental Plan of Operation
Soda Lake Unit
Contract No. 14-08-0001-15527
Churchill County, Nevada

I. Objective

See Initial Plan of Operations

I. General Program

See Initial Plan of Operations. Subsequent to the drilling of the Soda Lake #44-5 Well and the Soda Lake #63-33, 11-33 and 62-33 wells, Chevron has re-evaluated its exploratory program and proposes the drilling of one 2000' geothermal observation hole with the possibility that that hole may be deepened to 3500' at the location indicated on Exhibit "A". Assuming this application is approved and drilling equipment is available, the hole will be commenced prior to January 1, 1980.

I. Hole Location

The proposed hole location is shown on Exhibit "A". Placement of equipment is as shown on Exhibit "B" to our Initial Plan of Operations as are other details of the typical layout of our location.

IV. Access Roads

Access to the well site will utilize existing county and private roads to greatest extent possible. Any new construction will require a minimum of surface disturbance. Any road materials required will be obtained on site or from commercial sources. Location of access will be by mutual agreement with the Truckee-Carson Irrigation District.

V. Water Supply

See Initial Plan of Operations

I. Areas of Potential Surface Disturbance

See Initial Plan of Operations. The nearest dwelling is over one mile away from our location so no disturbance will occur.

I. Waste Disposal

See Initial Plan of Operations

VIII. Environmental Studies

See Initial Plan of Operations. Casing in the proposed wells will be cemented to a depth of 400' which will be sufficient to protect groundwater sources.

IX. Baseline Studies

See Initial Plan of Operations




X. Archeological Review

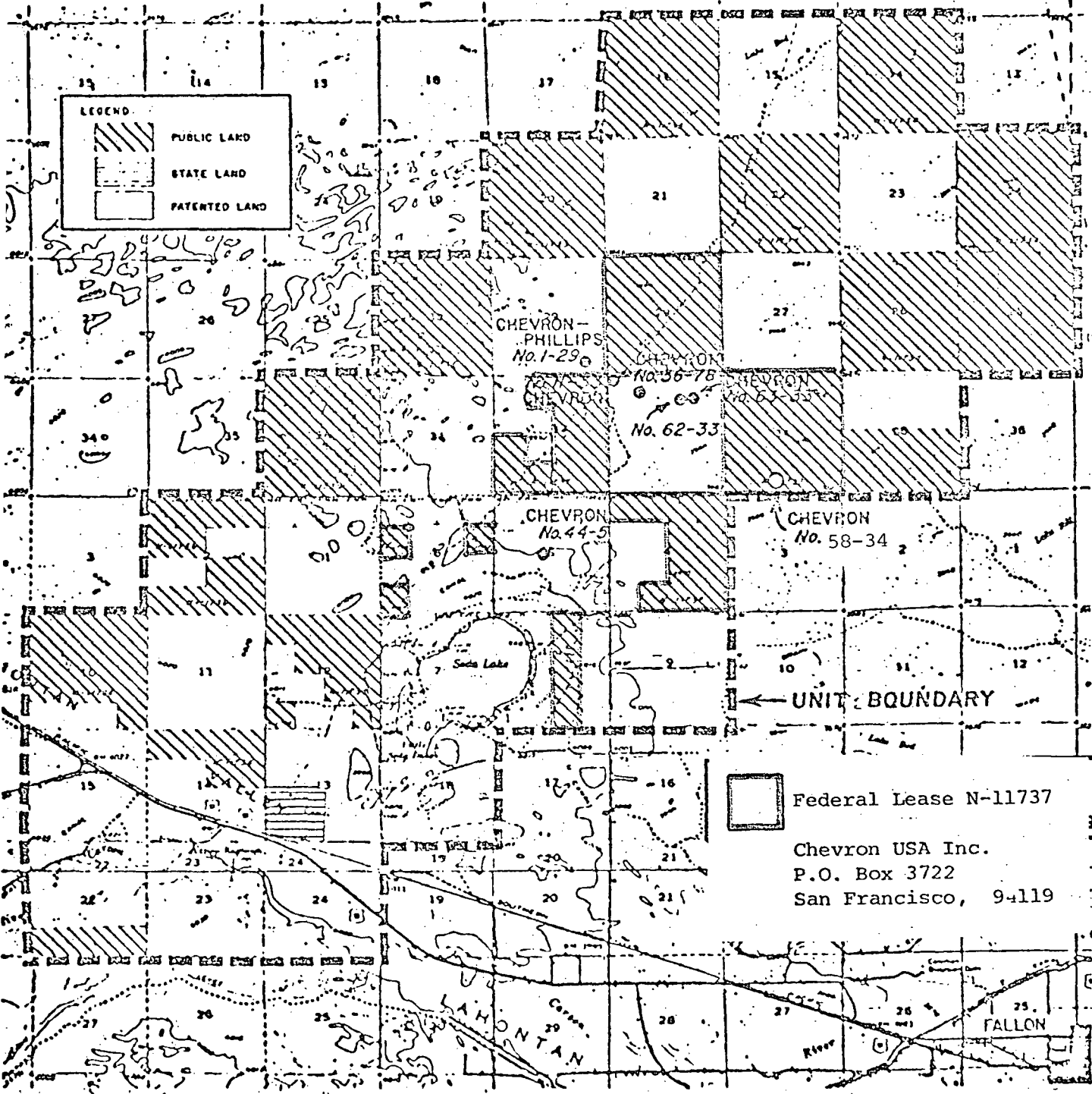
A report will be submitted to your office within 21 days of submittal of the A.P.D. The report will cover the well site and access route survey for cultural resources.


R27E

R28E

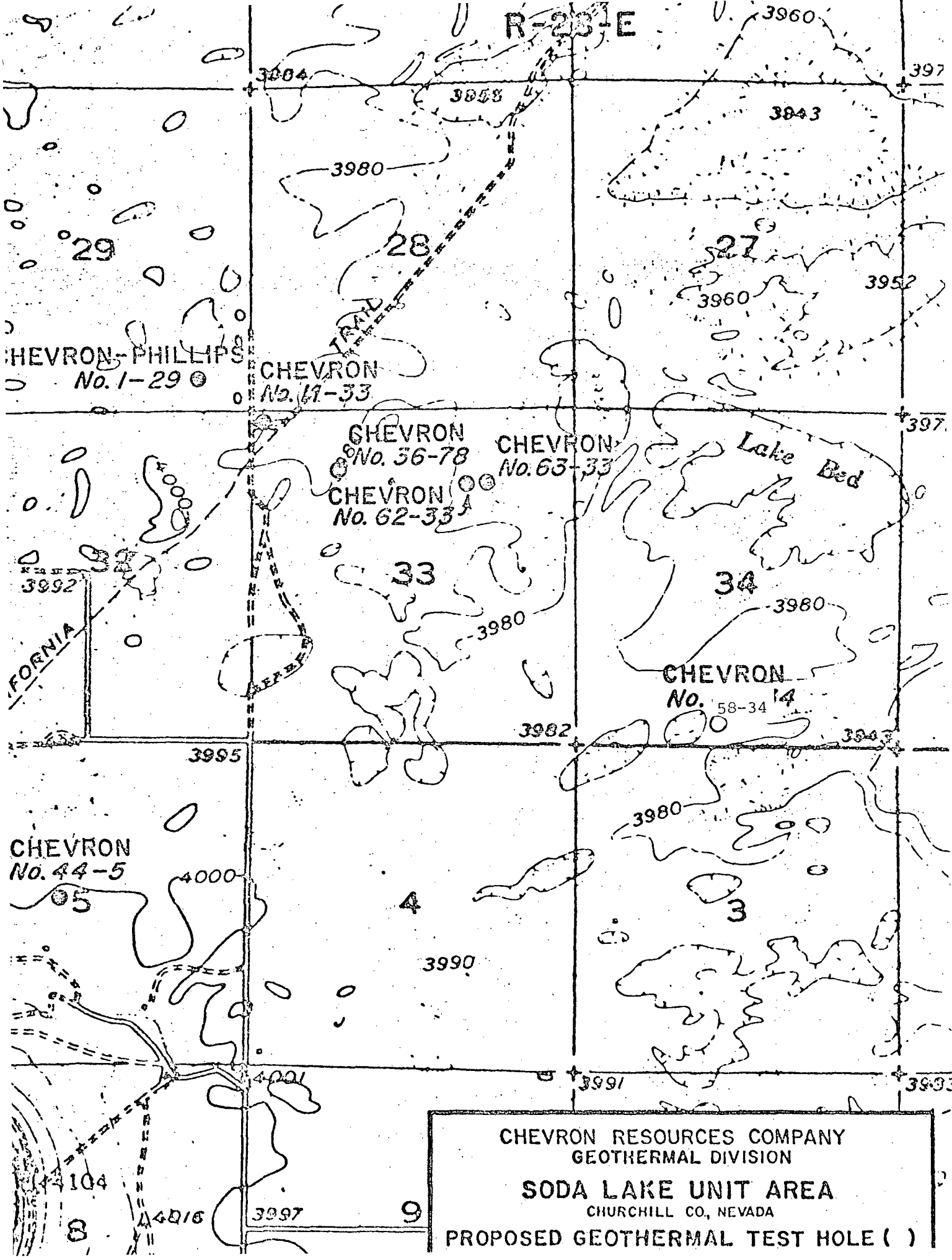
LEGEND

	PUBLIC LAND
	STATE LAND
	PATENTED LAND



 Federal Lease N-11737

Chevron USA Inc.
 P.O. Box 3722
 San Francisco, 94119



CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION

SODA LAKE UNIT AREA

CHURCHILL CO., NEVADA

PROPOSED GEOTHERMAL TEST HOLE ()