

GTLT - ____9____

19-17N-3E

**Sunoco Energy
Development Corporation
(Sandoval County)**

3-77-19

| | | |
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NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501

SEP 18 1977

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

| |
|--|
| 5. Indicate Type of Lease |
| State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> |
| 5.a State Lease No. |

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit -" (Form G-101) for Such Proposals.)

| | |
|--|--|
| 1. Type of well Geothermal Producer <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/> | 7. Unit Agreement Name NONE |
| 2. Name of Operator SUNOCO ENERGY DEVELOPMENT COMPANY | 8. Farm or Lease Name SAN DIEGO GRANT |
| 3. Address of Operator 12700 PARK CENTRAL PLACE, SUITE 1500, DALLAS, TX 75251 | 9. Well No. 19 |
| 4. Location of Well Unit Letter <u>N</u> <u>2400</u> Feet From The <u>WEST</u> Line and <u>800</u> Feet From The <u>SOUTH</u> Line, Section <u>19</u> Township <u>17N.</u> Range <u>3E.</u> NMPM. | 10. Field and Pool, or Wildcat NONE |
| 15. Elevation (Show whether DF, RT, GR, etc.) 6500' (G.L.) | 12. County SANDOVAL |

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

| | |
|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | |
| PULL OR ALTER CASING <input type="checkbox"/> | CHANGE PLANS <input checked="" type="checkbox"/> |
| OTHER <input type="checkbox"/> | |

SUBSEQUENT REPORT OF:

| | |
|---|---|
| REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG & ABANDONMENT <input type="checkbox"/> |
| CASING TEST AND CEMENT JOB <input type="checkbox"/> | |
| OTHER <input type="checkbox"/> | |

17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

This hole location was dropped from our drilling program and will not be drilled
in the near future.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

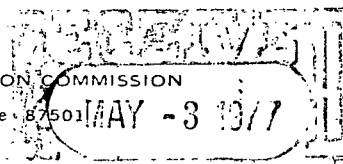
SIGNED Barry Williams PROJECT SUPERVISOR
GEOHERMAL SERVICES, INC. DATE 9/10/78APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/20/78

CONDITIONS OF APPROVAL, IF ANY:

| | |
|------------------------|---|
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NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe, N.M. 87501

APPLICATION FOR PERMIT TO DRILL, DEEPEN
OR PLUG BACK--GEOTHERMAL RESOURCES WELL

5. Indicate Type of Lease

STATE ☐FEE ☒

5.a State Lease No.

1a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐b. Type of Well Geothermal Producer ☐
Low-Temp Thermal ☐Temp Observation ☒
Injection/Disposal ☐

7. Unit Agreement Name

None

8. Farm or Lease Name

San Diego Grant

2. Name of Operator
SUNOCO ENERGY DEVELOPMENT CORPORATION

9. Well No.

3-77-19

3. Address of Operator
12700 Park Central Pl., Suite 1500, Dallas, TX 75251

10. Field and Pool, or Wildcat

None

4. Location of Well UNIT LETTER N LOCATED 2400 FEET FROM THE West LINEAND 800 FEET FROM THE S LINE OF SEC. 19 TWP. 17N RGE. 3E NMPM

projected

12. County

Sandoval

19. Proposed Depth

500 ft.

19A. Formation

unknown

20. Rotary or C.T.

rotary

21. Elevations (Show whether DF, RT, etc.)

6500 (GL)

21A. Kind & Status Plug. Bond

see note "A"

21B. Drilling Contractor

Geothermal Services

22. Approx. Date Work will start

June 15, 1977

PROPOSED CASING AND CEMENT PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | SACKS OF CEMENT | EST. TOP |
|--------------|----------------|-----------------|---------------|-----------------|----------|
| 5-1/8" | 3/4" | 1.14 lbs. | 500' | 1.5 | 6" BGL |
| | | | | | |
| | | | | | |

Program- See attached "Standard Shallow Temperature Gradient
Hole Drilling Program"

**- All section lines projected

Note A- Type of bond will be \$10,000 multiple-well low-temperature
well or geothermal observation well bond. The bond is in
the process of being filed, and a bond number will be
furnished as soon as available before operations commence.

Not Drilled - 12/12

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED

EXPIRES 8/11/77

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive
zone. Give blowout preventer program, if any.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed [Signature] Title Chief Geologist, Services, Inc. Date April 26, 1977

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/13/77

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section.

| | | | | | |
|---|------------------------------------|------------------------|---|---------------------------|----------------------------|
| Operator Sunoco Energy Development Corp. | | | Lease San Diego Grant | | Well No. 3-77-19 |
| Letter N | Section 19 | Township 17N | Range 3E | County Sandoval | |
| Actual Footage Location of Well: 2400 feet from the projected W line and 800 feet from the S line(projected) | | | | | |
| Ground Level Elev. 6500' | Producing Formation None | Pool None | Dedicated Acreage: None Acres | | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

**Hole #3-77-19 to be located:
NE1/4SE1/4SW1/4, sec.19, T.17N, R.3E**

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

[Signature]
Name

Steve Quiett

Position

Chief Geologist

Company

Geothermal Services, Inc.

Date

April 26, 1977

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.



GEOTHERMAL SERVICES, INC.

7860 CONVOY COURT, SAN DIEGO, CALIFORNIA 92111 • (714) 565-4712

STANDARD SHALLOW TEMPERATURE GRADIENT HOLE DRILLING PROGRAM (500'/150m; Rubber Tired Equipment; Rotary/Mud)

1. Coordinate "Special Stipulations" or other unusual requirements with the Project Geologist prior to set-up and spud.
2. Choose location and orientation of drilling rig so as to minimize surface disturbance.
3. Drill 4" to 6" hole to maximum depth of 500'/150m. Take cuttings samples, cores, etc. at direction of Project Geologist.
4. If drilling with mud, use regular Bentonite drilling mud. No toxic additives are to be used in drilling fluids without permission of Project Geologist. Have supply of lost circulation material available. Use portable mud pits unless specifically directed otherwise.
5. Have a supply of Barite available in case of artesian flow. If artesian flow is encountered, comply with United States Geological Survey's Stipulations.
6. Mud return temperature shall be measured and recorded on "Drilling History" every 10'/3m.
 - a. If temperature reaches 120°F/50°C, STOP DRILLING and circulate for 30 minutes, monitoring mud temperature and pit volume for possible hot artesian flow. If no flow, run pipe at this depth after logging is completed.
 - b. If there is a sudden increase in temperature of the drilling mud (several degrees in only a few feet) STOP DRILLING and circulate for 30 minutes, monitoring mud temperature and pit volume for possible hot artesian flow. If no flow, continue drilling CAUTIOUSLY, keeping a careful watch on return temperature of drilling fluid. In no case shall drilling continue after mud return temperature reaches 120°F/50°C.