

GTLT - _____2_____

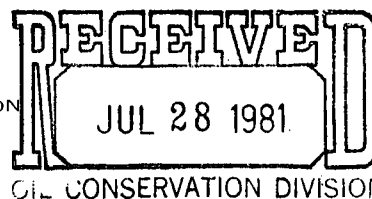
NMSU OW-1-LRG 523

UL:A 27-23S-02E

Dona Ana County

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



Form G-103
Adopted 10/1/74

**SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS**

5. Indicate Type of Lease State <input type="checkbox"/> Fee <input type="checkbox"/>	
5.a State Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name NMSU-OW-1-LRG	
9. Well No. 523	
10. Field and Pool, or Wildcat NMSU Property	
12. County Dona Ana	

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"/> Low-Temp Thermal <input type="checkbox"/>	Temp. Observation <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>
2. Name of Operator New Mexico State University, Physical Plant Dept.	
3. Address of Operator Box 3445, New Mexico State University Las Cruces, New Mexico 88003	
4. Location of Well Unit Letter <u>A</u> <u>1000</u> Feet From The <u>North</u> Line and <u>300</u> Feet From The <u>East</u> Line, Section <u>27</u> Township <u>23S</u> Range <u>2E</u> NMPM.	

15. Elevation (Show whether DF, RT, GR, etc.) 4200' Above MSL
--

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"/>	CHANGE PLANS <input type="checkbox"/>
PULL OR ALTER CASING <input 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 <u>Well Completion</u> <input checked="" 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.

The well was completed to a depth of 860 feet, with slotted steel pre-forations from 700 to 850 feet. Casing and screen are 4-inch I.D. steel. Casing was cemented from surface to 680 feet, with 20 feet of gravel pack above the screen, and gravel pack the entire depth of the screen. A cement plug was installed in the lowest 10-foot section of the blank casing, from 850 to 860 feet of depth.

The well was temperature logged, with a BHT of 150°F. It is in service as an observation well.

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

SIGNED Roy A. Cunniff TITLE Director, NMSU Geothermal Proj DATE 20 Dec 1980

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7/28/81

CONDITIONS OF APPROVAL, IF ANY:

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Operator	1
Land-Office BLM	1

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

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

5. Indicate Type of Lease
STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
5.a State Lease No.

1a. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/>	7. Unit Agreement Name		
b. Type of Well Geothermal Producer <input type="checkbox"/> XXX Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	8. Farm or Lease Name NMSU		
2. Name of Operator New Mexico State University, Physical Plant Dept.	9. Well No. Hydrologic OW-1 (Observation)		
3. Address of Operator Box 3445, New Mexico State University Las Cruces, New Mexico 88003	10. Field and Pool, or Wildcat NMSU Property		
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>1000</u> FEET FROM THE <u>North</u> LINE AND <u>300</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>27</u> TWP. <u>23S</u> RGE. <u>2E</u> NMPM	12. County Dona Ana		
19. Proposed Depth 860 feet	19A. Formation Santa Fe	20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 4200 feet above MSL	21A. Kind & Status Plug. Bond Grindell & Rollings	21B. Drilling Contractor Cole Drilling Co., 600 Delhi Dr, El Paso, Tx.	22. Approx. Date Work will start Nov 10, 1980

Bond No. 6358013
PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
10-3/4"	4-inch I.D.				

The observation well will be identical, in design, to the well NMSU-DG-3 (to be renumbered NMSU-PG-1) for which a permit was obtained in 1979. The casing will be smaller, 4 inches, as compared to 10 inches for DG-3.

Casing will be cemented in from surface to 700 feet; screen will be set from 700 to 850 feet, and gravel packed.

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 2-4-81
UNLESS DRILLING UNDERWAY

OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

IN 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 M. F. Whalen Martin F. Whalen Title Dir., Physical Plant Dept, NMSU Date 31 October 1980

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 11-6-80
CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

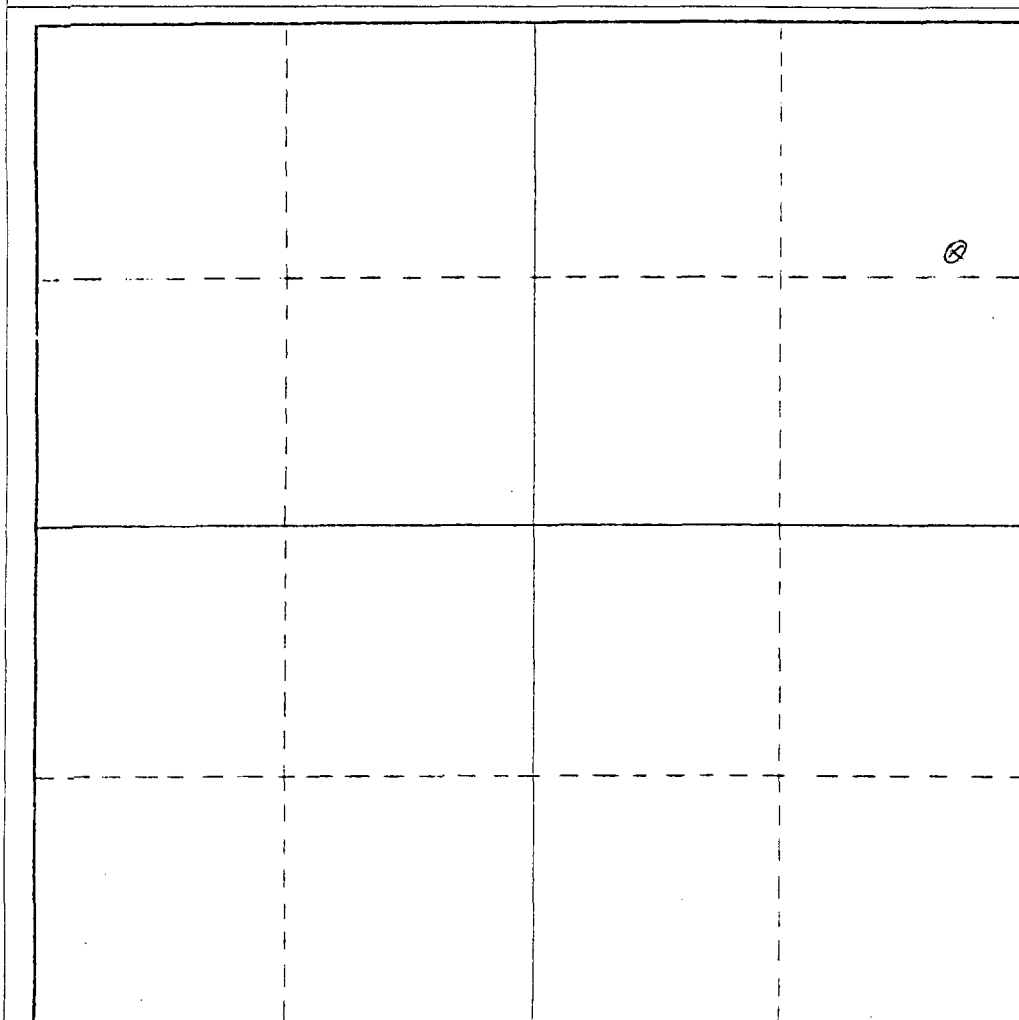
Operator Physical Plant Dept., NMSU			Lease NMSU		Well No. OW-1
Unit Letter A	Section 27	Township 23S	Range 2E	County Dona Ana	
Actual Footage Location of Well: 1000 feet from the North line and 300 feet from the East line					
Ground Level Elev. 4200 feet	Producing Formation Santa Fe		Pool Las Alturas		Dedicated Acreage: Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 NA

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.



CERTIFICATION

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

M. F. Whalen Martin F. Whalen

Name
Dir., Physical Plant Dept.

Position
NMSU

Company
31 October 1980

Date

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
10-11-80

Registered Professional Engineer
and/or Land Surveyor

Courad H. Keyes Jr.

Certificate No.
3720

0 300 600 900 1200 1500 1800 2100 2400 2700 3000 3300 3600



Physical Science Laboratory

BOX 3-PSL, LAS CRUCES, NEW MEXICO 88003
AREA (505) 522-9100 TWX 910-983-0541

3 November 1980

Mr. Dan Nutter
Chief Engineer
Oil Conservation Division
State Land Office Bldg.
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Nutter:

As discussed with Mr. Carl Ulvog, on 3 November 1980, forwarded herewith is an original and four copies of form G-101 and G102 for four new geothermal wells on NMSU property.

It is our intent to commence drilling on the two 100-foot deep gradient wells on 10 November 1980, and on the observation well (OW-1) shortly thereafter. Accordingly, we would appreciate your favorable review and approval of these permits prior to that date.

You will note the forms G-101 specify a plugging bond number. A copy of this bond will be forwarded by separate letter today.

Sincerely,

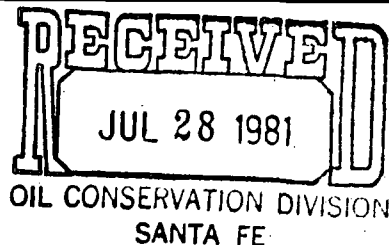
Roy A. Cunniff

enclosures as shown



Physical Science Laboratory

BOX 3-PSL, LAS CRUCES, NEW MEXICO 88003
AREA (505) 522-9100 TWX 910-983-0541



July 23, 1981

Mr. Carl Ulvog
Senior Petroleum Geologist
New Mexico Oil Conservation Commission
P.O. Box 2086
Santa Fe, New Mexico 87503

Dear Mr. Ulvog:

Enclosed please find Forms G-103 for the observation well and the two temperature gradient wells we drilled on NMSU land.

You will note that the wells have now been identified as follows: Farm or Lease Name NMSU-OW-1-LRG, Number 523 (formerly NMSU-OW-1), Farm or Lease Name NMSU-TG-1-LRG, Number 460 (formerly NMSU-TG-1), Farm or Lease Name NMSU-TG-2-LRG, Number 461 (formerly NMSU-TG-2).

This letter with attached forms is a follow-on to my original reports on those wells, which presumably have been lost.

Also, please note the attached copy of my letter forwarding G-103 for the new production well. I have no record of an approved copy of that request.

Sincerely yours,

A handwritten signature in cursive script, reading 'Roy A. Cunniff'.

Roy A. Cunniff
Project Director
NMSU
Geothermal Project

RAC/smm

4 Encl.

G-103 TG-1
G-103 TG-2
G-103 OW-1 ✓
cy of 12 February 81 letter