

**GTLT - \_\_\_\_\_2\_\_\_\_\_**

**NMSU 1**  
**UL: A 27-23S-2E**  
**Dona Ana County**

**Drilled ~ 5/1981**

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

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S. G. S.		
Operator	/	
Land Office		

SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease  
State  Fee   
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
2. Name of Operator Lokesh Chaturvedi Dept. of Energy Research Project	8. Farm or Lease Name NMSU
3. Address of Operator Box 3-PSL NMSU, Las Cruces, NM 88003	9. Well No. 1
4. Location of Well Unit Letter <u>A</u> <u>500</u> Feet From The <u>North</u> Line and <u>500</u> Feet From The <u>East</u> Line, Section <u>27</u> Township <u>23S</u> Range <u>2E</u> NMPM.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 4200 ft. above MSL	12. County Dona Ana

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

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> CHANGE PLANS <input checked="" type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG &amp; ABANDONMENT <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>
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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 is notice that this well will not be drilled; cancel this permit.

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

SIGNED Roy A. Lunniff TITLE Project Director DATE 15 July 1980

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/15/81

CONDITIONS OF APPROVAL, IF ANY:

560 FN  
500 FE

COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING  
Box 3CE/Las Cruces, New Mexico 88003  
Telephone (505) 646-3803

November 15, 1978



Mr. Daniel S. Nutter  
Chief Engineer  
Oil Conservation Division  
Energy and Minerals Department  
P.O. Box 2088  
State Land Office Building  
Santa Fe, NM 87501

Dear Mr. Nutter:

Enclosed please find forms G-101 and G-102 for a new proposed well on NMSU land (NMSU-2). Permission for drilling NMSU-1 well has already been granted. However, there are two changes regarding NMSU-1. We would like to keep the option open for drilling both the wells to 1500 ft. depth if the temperature gradient appears to be increasing at 1000 ft. The second change involves the drilling contractor. Sandia Laboratories is no longer our drilling contractor. The driller will be selected on the basis of low bid and the expediency with which the work can be accomplished. It will be a commercial driller.

Please let us have the permission to drill well NMSU-2 and note the changes for NMSU-1. As requested by you, I am enclosing a copy of approved forms G-101 and G-102 for NMSU-1 well.

Yours sincerely,

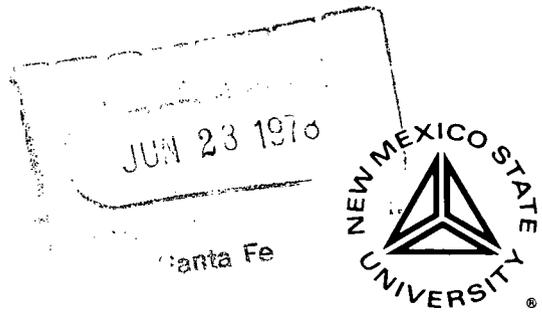
*Lokesh Chaturvedi*

Lokesh Chaturvedi  
Co-Investigator  
DOE Low Temperature  
Assessment Program

ca  
Enclosure

COLLEGE OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING  
Box 3CE/Las Cruces, New Mexico 88003  
Telephone (505) 646-3803



June 27, 1978

Mr. Joe D. Ramey  
Director, Oil Conservation Division  
NM Energy and Mineral Department  
P.O. Box 2088  
State Land Office Building  
Santa Fe, NM 87501

*Call the new well  
NMSU State Well # 1*

Dear Mr. Ramey:

You have given us permission to re-enter the Clary and Ruther State Well No. 1 located in NW 1/4 NW 1/4 of Section 36, Township 23 South, Range 2 East, NMPM, Dona Ana County, New Mexico.

Re-entry in the well is perhaps going to be difficult due to expected caving between plugs. If it appears too difficult and/or expensive to try to reopen the well to the desired depth, we would like to abandon the re-entry effort and would like to drill a new 4 1/2 inch diameter 1000 ft. deep well about 25 feet east of the Clary and Ruther Well. We would like to install a 3 1/2 inch diameter casing in the well for temperature gradient measurement. The well will of course be plugged according to your specifications on completion of the logging.

Kindly give us permission to drill a new well as described above in the event that proposed re-entry of Clary and Ruther Well appears difficult, expensive or both.

Kindly find enclosed forms G-101 and G-102 for this purpose.

Yours sincerely,

*L Chaturvedi*

Lokesh Chaturvedi  
Assistant Professor  
Geological Engineering

cd

Enclosure: Forms G-101, G-102

Copy

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

NOV 20 1978

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U.S.G.		
Operator		
Land Office		

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

Santa Fe

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  Temp Observation   
Low-Temp Thermal  Injection/Disposal

7. Unit Agreement Name

8. Farm or Lease Name  
NMSU Land

2. Name of Operator Lokesh Chaturvedi, Co-Investigator  
Dept. of Energy Research Project

9. Well No.  
1

3. Address of Operator Box 3CE, NMSU  
Las Cruces, NM 88003

10. Field and Pool, or Wildcat

4. Location of Well UNIT LETTER A LOCATED 500 FEET FROM THE north LINE  
east  
AND 500 FEET FROM THE north LINE OF SEC. 27 TWP. 23S RGE. 2E NMPM

12. County  
Dona Ana

21. Elevations (Show whether DF, RT, etc.)  
4200 ft above m.s.l.

19. Proposed Depth  
1000 ft.

19A. Formation  
sediment

20. Rotary or C.T.  
rotary

21A. Kind & Status Plug. Bond  
Not Required

21B. Drilling Contractor  
Sandia Laboratory

22. Approx. Date Work will start  
June 19, 1978

(see enclosed letter)  
PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP

The proposed well is located on New Mexico State University property where NMSU has both surface and subsurface mineral rights. The purpose of drilling this well is to obtain temperature gradient information. The well will be plugged after logging.

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 L Chaturvedi Title Assistant Professor Date June 7, 1978

(This space for State Use)

APPROVED BY [Signature] TITLE DANIEL S. NUTTER DATE 6/8/78  
CONDITIONS OF APPROVAL, IF ANY:

**GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT**

*Copy*

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

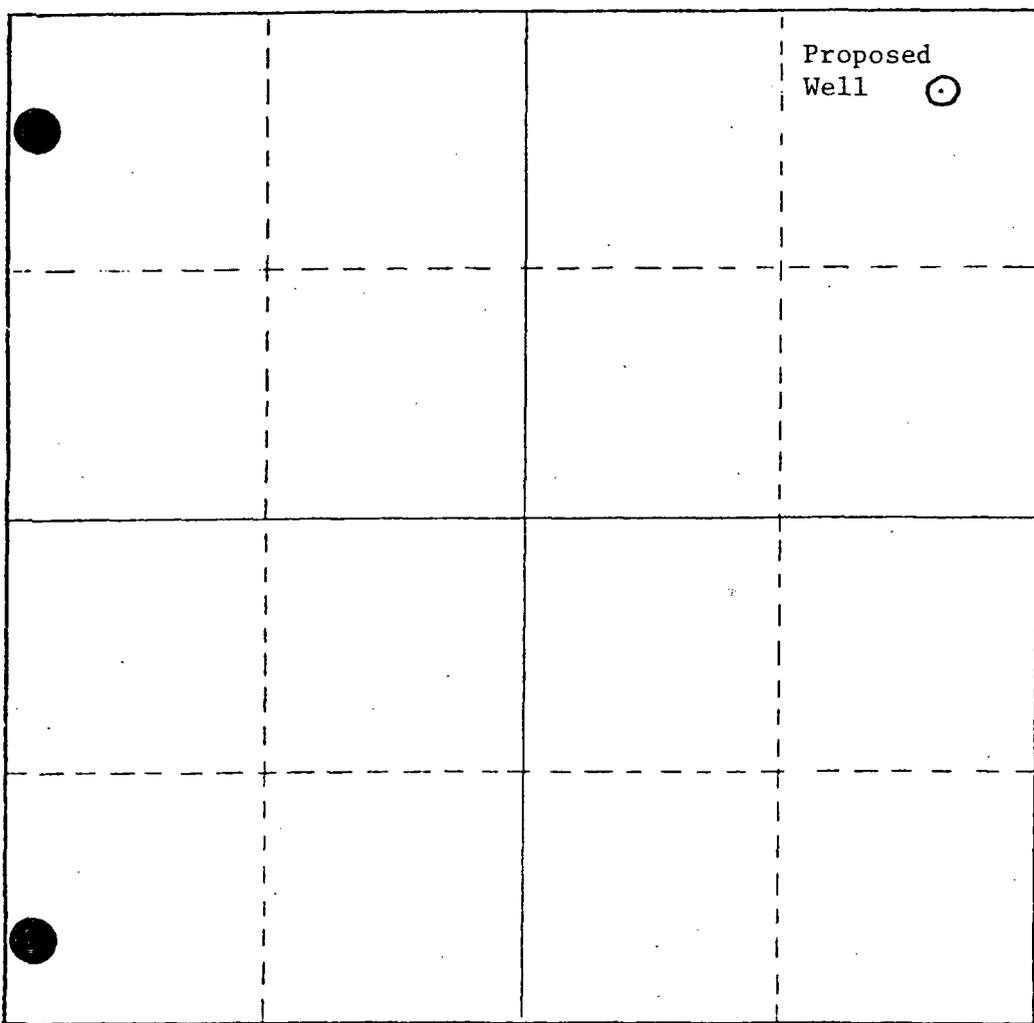
Operator <b>NMSU - Lokesh Chaturvedi</b>		Lease <b>University Land</b>		Well No. <b>1578</b>	
Ur tter <b>A</b>	Section <b>27</b>	Township <b>23 S</b>	Range <b>2 E</b>	County <b>Dona Ana</b>	
Actual Footage Location of Well: <b>500</b> feet from the <b>North</b> line and <b>500</b> feet from the <b>East</b> line					
Ground Level Elev. <b>4200 ft.</b>	Producing Formation	Pool	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 ownersip 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.



**CERTIFICATION**

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

*Lokesh Chaturvedi*  
**Lokesh Chaturvedi**

Name  
**Assistant Professor**  
Position **New Mexico State University**

Company  
**June 7, 1978**  
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  
Registered Professional Engineer and/or Land Surveyor

Certificate No.





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

ERRY APODACA  
GOVERNOR  
NICK FRANKLIN  
SECRETARY

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

June 8, 1978

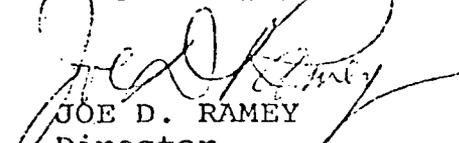
Mr. Lokesh Chaturvedi  
Principal Investigator, Las Alturas  
Geothermal Reservoir Confirmation Study  
NMSU Department of Civil Engineering  
Box 3CE  
Las Cruces, New Mexico 88003

Dear Mr. Chaturvedi:

Enclosed herewith is approved Form G-101 for re-entry to maximum depth of 1490 feet of the Clary & Ruther State Well No. 1, located 50 feet from the North line and 20 feet from the West line of Section 36, Township 23 South, Range 2 East, NMPM, Dona Ana County, New Mexico. Also approved Form G-101 for drilling NMSU Land Well No. 1, to be located 500 feet from the North line and 500 feet from the East line of Section 27 of the same township, which would be drilled to a maximum depth of 1000 feet.

It is my understanding that New Mexico State University is undertaking the re-entry and drilling of these wells as part of a DOE- and NMERB-funded project for geothermal research, and that you will plug the wells in accordance with Oil Conservation Division specifications as soon as logging has been completed. I am, therefore, hereby waiving the normal requirement for the posting of a plugging bond prior to approval of Forms G-101.

Very truly yours,

  
JOE D. RAMEY  
Director

JDR/DSN/fd  
enc.

cc: Commissioner of Public Lands  
Carl Ulvog, Geothermal Inspector