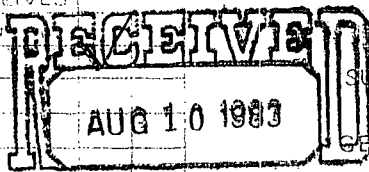


**GTLT - \_\_\_\_\_20\_\_\_\_\_**

**City of Las Cruces  
8-23S-2E  
Dona Ana County**

**Well No. 1**

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SUNDRY NOTICES AND REPORTS

ON

GEOTHERMAL RESOURCES WELLS

AUG 08 1983

O.C.D. ☐ Indicate Type of Lease

ARTESIA OFFICE Lease No.

N/A

File \_\_\_\_\_  
 R. M. B. M. \_\_\_\_\_  
 U. S. G. S. \_\_\_\_\_  
 Operator \_\_\_\_\_  
 Land Office \_\_\_\_\_

OIL CONSERVATION DIVISION  
SANTA FE

(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 ☐ Temp. Observation ☒  
 Low-Temp Thermal ☐ Injection/Disposal ☐

2. Name of Operator: City of Las Cruces, Utilities Division

3. Address of Operator: P.O. Drawer CLC Las Cruces, NM 88004

4. Location of Well: Unit Letter I, 1,000 Feet From The East Line and 1,900 Feet From South Line, Section 8 Township 23S Range 2E NMPM.

5. Elevation (Show whether DF, RT, GR, etc.): 4,000

6. Unit Agreement Name: N/A

7. Farm or Lease Name: CLC-TG

8. Well No.: 1

9. Field and Pool, or Wildcat: Wildcat

10. County: Dona Ana

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

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
 TEMPORARILY ABANDON ☐  
 CULL OR ALTER CASING ☐ CHANGE PLANS ☐  
 OTHER ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ PLUG & ABANDONMENT XX ☒  
 CASING TEST AND CEMENT JOB ☐

OTHER \_\_\_\_\_

7. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 20A.

Temperature gradient hole was plugged and abandoned in accordance with Oil Conservation Division regulations.

The PVC tubing was cut off 2 feet below the surface.

The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.

The hole was backfilled and the surface reclaimed.

Plugging and abandonment took place on July 11, 1983.

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

SIGNED Donald Ray Ansel TITLE Assoc. Dir. Water Resources DATE 8/19/83

APPROVED BY Roy E. Johnson TITLE Geologist DATE 8/23/83

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

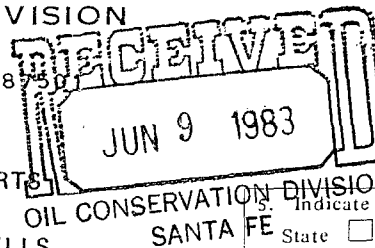
OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103  
Adopted 10-1-74  
Revised 10-1-78

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U. S. G. S.	
Operator	
Land Office	



SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS

Indicate Type of Lease  
State ☐ Fee ☒

5.a State Lease No.  
N/A

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 ☐ Temp. Observation ☒  
Low-Temp Thermal ☐ Injection/Disposal ☐

7. Unit Agreement Name  
N/A

2. Name of Operator  
City of Las Cruces, Utilities Division 526-0249

8. Farm or Lease Name  
CLC-TG

3. Address of Operator  
P.O. Drawer CLC, Las Cruces, New Mexico 88004

9. Well No.  
1

4. Location of Well  
Unit Letter I, 1,000 Feet From The East Line and 1,900 Feet From

10. Field and Pool, or Wildcat  
Wildcat

The South Line, Section 8 Township 23S Range 2E NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)  
4,000

12. County  
Dona Ana

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>		OTHER <input type="checkbox"/>	

7. 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.

Temperature gradient hole will be plugged and abandoned in accordance with Oil Conservation Division regulations. The PVC tubing will be cut off 2 feet below the surface. The top 8 feet of the PVC will be filled with cement and the cement will be allowed to overflow into the annular space to form a permanent cap. The hole will be backfilled and the surface will be reclaimed. Plugging and abandonment will take place on or about 7/1/83.

Craig Andrews

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

SIGNED Dodd Craig Andrews TITLE Assoc Director Water Resources DATE 6/6/83

APPROVED BY Carl Ulloa TITLE DISTRICT SUPERVISOR DATE 6/9/83

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

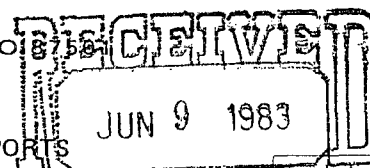
OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

Form G-103  
Adopted 10-1-74  
Revised 10-1-78

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U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS  
ON  
GEOHERMAL RESOURCES WELLS



Indicate Type of Lease  
State ☐ Fee ☒

5.a State Lease No.  
N/A

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 ☐ Temp. Observation ☒  
Low-Temp Thermal ☐ Injection/Disposal ☐

7. Unit Agreement Name  
N/A

2. Name of Operator  
City of Las Cruces, Utilities Division

8. Farm or Lease Name  
CLC-TG

3. Address of Operator  
P.O. Drawer CLC, Las Cruces, NM 88004

9. Well No.  
1

4. Location of Well  
Unit Letter I, 1,000 Feet From The East Line and 1,900 Feet From  
The South Line, Section 8 Township 23S Range 2E NMPM.

10. Field and Pool, or Wildcat  
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)  
4,000

12. County  
Dona Ana

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐ CHANGE PLANS ☐  
OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☒ PLUG & ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER ☐

7. 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 hole was spudded on 5/25/83. A depth of 300 feet was reached. Drilling stopped on 5/26/83. 1 1/2" PVC casing was placed in the hole. The annular space around the tubing was filled with drilling mud to 10 feet below the surface and with cement from 10 feet to 2 feet below the surface.

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

SIGNED Donald Gray Arch TITLE Assoc. Director Water Resources DATE 6/6/83

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 6/9/83

CONDITIONS OF APPROVAL, IF ANY

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

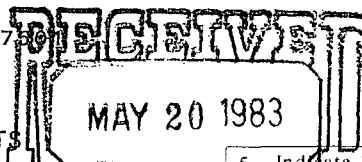
P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-103  
Adopted 10-1-74  
Revised 10-1-78

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U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS



OIL CONSERVATION DIVISION  
SANTA FE

5. Indicate Type of Lease	Fee <input checked="" type="checkbox"/>
6. State Lease No.	N/A

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"/>	7. Unit Agreement Name
	Low-Temp Thermal <input type="checkbox"/>	Injection/Disposal <input type="checkbox"/>	N/A
2. Name of Operator	City of Las Cruces, Utilities Division		8. Farm or Lease Name
			CLC-TG
3. Address of Operator	P.O. Drawer CLC Las Cruces, NM 88004		9. Well No.
			1
4. Location of Well	Unit Letter I, 1,000 Feet From The East Line and 1,900 Feet From		10. Field and Pool, or Wildcat
	The South Line, Section 8 Township 23S Range 2E NMPM.		Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)			12. County
4,000			Dona Ana

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 type="checkbox"/>
OTHER <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

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

7. 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 temperature gradient hole will be spudded on May 23, 1983 at 8:00 am.

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

APPROVED BY Donald Ray And TITLE ASSOCIATE DIRECTOR DATE May 18, 1983  
WATER RESOURCES

APPROVED BY Carl Ulberg TITLE DISTRICT SUPERVISOR DATE 5/20/83

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RECEIVED  
MAR 14 1983

Form G-101  
Adopted 10-1-74  
Revised 10-1-78

OIL CONSERVATION DIVISION  
SANTA FE

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File	<input checked="" type="checkbox"/>
N.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

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

5. Indicate Type of Lease

STATE ☐ FEE ☒

5.a State Lease No.

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

CLC-TG

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat

12. County

Dona Ana

19. Proposed Depth  
300 ft

19a. Elevation  
Quaternary  
Alluvium

20. Rotary or C.T.  
Rotary

21. Elevations (Show whether DF, RT, etc.)  
4,000

21A. Kind & Status Plug. Bond

21B. Drilling Contractor  
TO BE DETERMINED

22. Approx. Date Work will start  
May 1, 1983

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	1 1/2"	1 lb	300 ft	1	surface

PVC will be filled with fresh water and capped.  
Temperature measurements will be made during the month following drilling.  
Hole will be plugged and abandoned after final use.  
Hole location will be restored.

APPROVAL VALID FOR 90 DAYS  
PERMIT EXPIRES 6-29-83  
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 prevention program, if any.

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

Signed Glenn Needham Title Director, Utilities Division Date Mar 7, 1983

(This space for State Use)

APPROVED BY Carl Vilsoz TITLE DISTRICT SUPERVISOR DATE March 31, 1983

CONDITIONS OF APPROVAL, IF ANY:

MAR 14 1983

Adopted 10-1-74  
Revised 10-1-78

## GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundary of the well. U.S. GEOLOGICAL SURVEY GEOLOGICAL CONSERVATION DIVISION

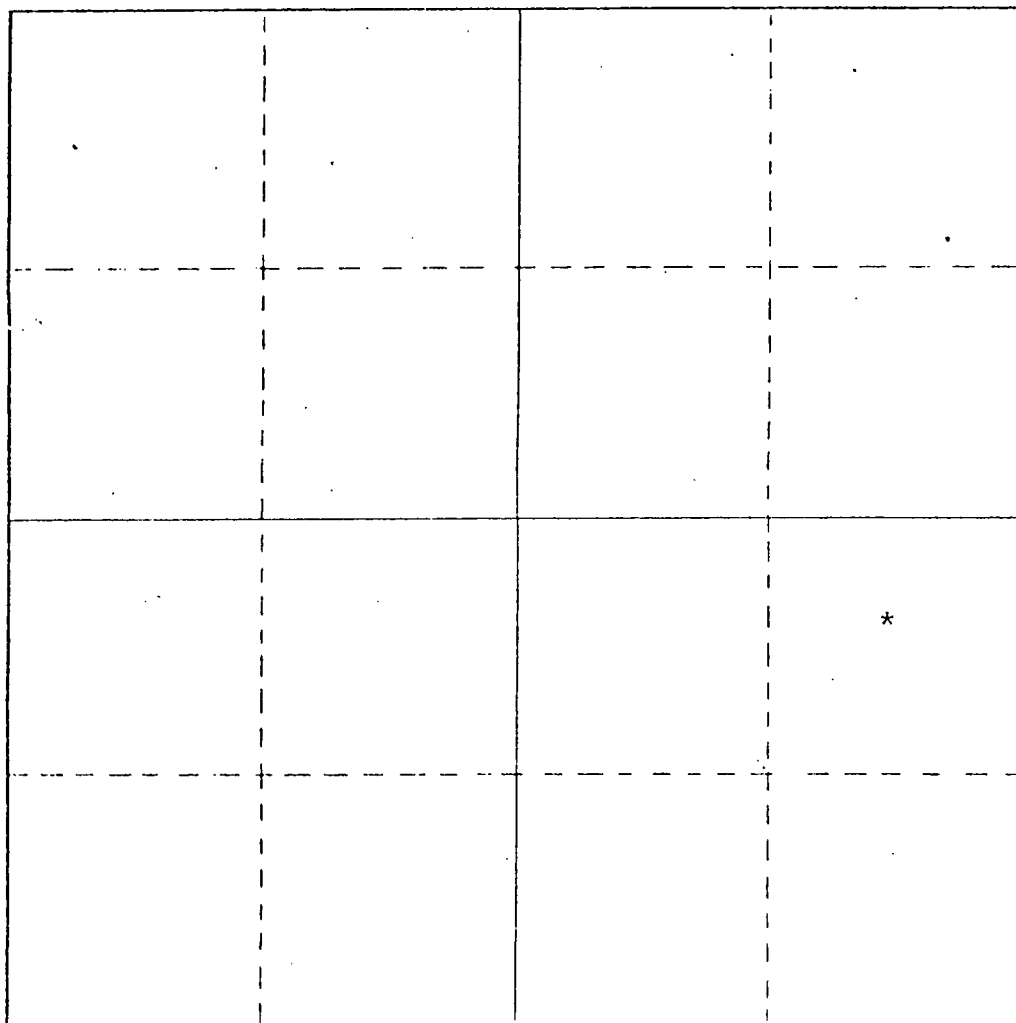
Operator City of Las Cruces/Utilities Div.		Lease CLC-TG		SANTA FE		Well No. 1
Unit Letter I	Section 8	Township 23S	Range 2E	County Dona Ana		
Actual Footage Location of Well: 1,000 feet from the East line and 1900 feet from the South line						
Ground Level Elev. 4,000	Producing Formation Quaternary Alluvium		Pool Wildcat		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 \_\_\_\_\_

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 Division.



## CERTIFICATION

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

Name Kenneth Needham  
Position Director of Utilities  
Company City of Las Cruces  
Date March 9, 1983

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. \_\_\_\_\_

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION

TONEY ANAYA  
GOVERNOR

April 5, 1983

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-5800

City of Las Cruces  
P. O. Drawer CLC  
Las Cruces, New Mexico 88004

Re: \$2,000 One-Well Low-Temperature  
Geothermal Observation Well Bond  
City of Las Cruces, Principal  
Safeco Insurance Company of  
America, Surety  
CLC-TG Well No. 1, Unit I,  
Sec. 8, T-23-S, R-2-E  
Bond No. 4165459

Gentlemen:

The Oil Conservation Division hereby approves  
the above-referenced Geothermal Bond effective  
April 1, 1983.

Sincerely,

JOE D. RAMEY,  
Director

dr/

cc: Carl Ulvog - OCD  
Santa Fe, New Mexico

Safeco Insurance Company of America  
Safeco Plaza  
Seattle, Washington 98185