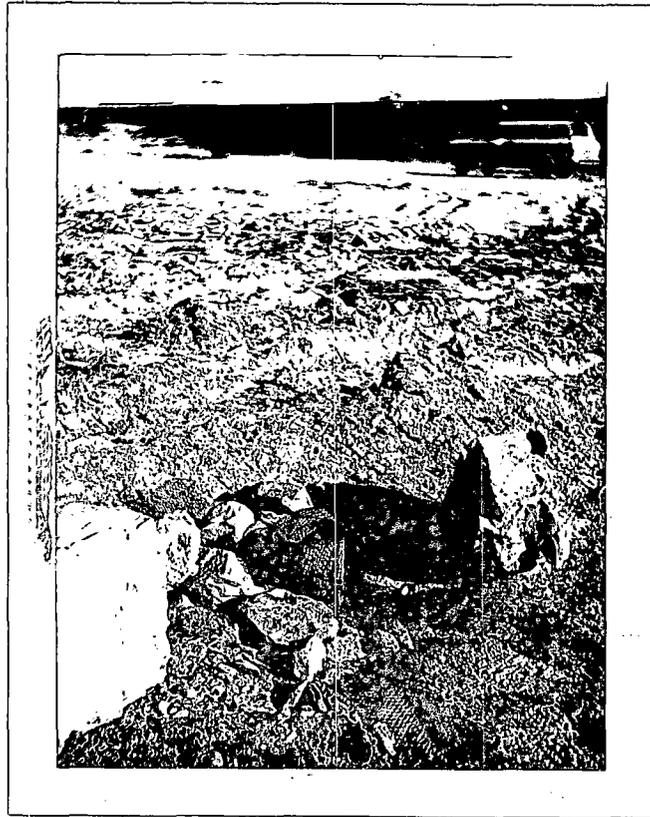


GTLT - _____ 14 _____

**H.N. Bailey & Associates
10-21S-1W
Dona Ana County**

Well No. 9,15,10-14(PA)



NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

RECEIVED
SUNDRY NOTICES AND REPORTS
ON
GEOHERMAL RESOURCES WELLS

SEP 17 89

5. Indicate Type of Lease
State N/A Fee

5.a State Lease No.
PRIVATE

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use Form G-101 for Such Proposals.

1. Type of well
Geothermal Producer Temp. Observation
Low-Temp Thermal Injection/Disposal

2. Name of Operator
ALEX R. MASSON, INC.

3. Address of Operator
DRAWER F LINWOOD, KANSAS 66052

4. Location of Well
Unit Letter **B 2036** Feet From The **EAST** Line and **767** Feet From
The **NORTH** Line, Section **10** Township **21 S** Range **1 W** NMPM.

7. Unit Agreement Name
N/A

8. Farm or Lease Name
BAILEY

9. Well No.
9

10. Field and Pool, or Wildcat
WILDCAT

15. Elevation (Show whether DF, RT, GR, etc.)
G.L. 3980'

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 **CHANGE OF OPERATOR**

SUBSEQUENT REPORT OF:

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

OTHER _____

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.

**CHANGE OF OPERATOR FROM HARRY N. BAILEY
TO ALEX R. MASSON, INC.**

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

SIGNED *Brian A. Felzquald* TITLE DESIGNATED AGENT DATE 9/12/89

APPROVED BY *R. E. Blum* TITLE DISTRICT SUPERVISOR DATE 9-28-89

CONDITIONS OF APPROVAL, IF ANY:



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

September 20, 1989

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Commercial Union Insurance
Companies
P. O. Box 937001
El Paso, Texas 79937

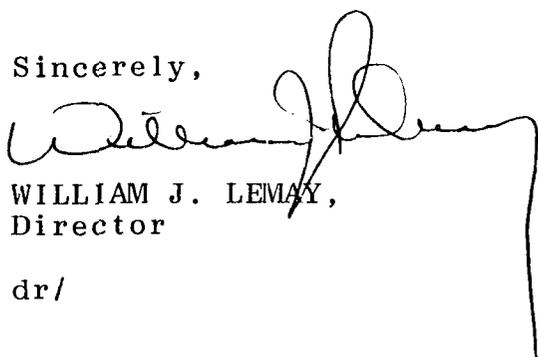
Attention: Gail A. Magness

Re: \$10,000 Multiple Well, Low
Temperature Geothermal Bond
Harry N. Bailey, Principal
Bond No. CE 71353-20

Dear Ms. Magness:

The Oil Conservation Division hereby approves release of
the above-referenced geothermal bond effective this date.

Sincerely,

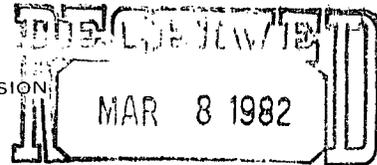

WILLIAM J. LEMAY,
Director

dr/

cc: Oil Conservation Division
District IV

Bailey & Assoc. Corp.
25256 Terreno Drive
Mission Viejo, Ca. 92691

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



NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION

Specify Type of Lease
State Fee

5.a State Lease No.

Private

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

H.N. Bailey & Associates

8. Farm or Lease Name

H.N. Bailey

3. Address of Operator

Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.

9

4. Location of Well

Unit Letter B; 2000 Feet From The East Line and 800 Feet From

10. Field and Field, or Wildcat

Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

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

GL 3980 feet

12. County

Dona Ana

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

- REMEDIAL WORK
- COMMENCE DRILLING OPNS.
- CASING TEST AND CEMENT JOB
- ALTERING CASING
- PLUG & ABANDONMENT
- OTHER location above is corrected location

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.

Propose to change well #9 from Temperature Observation status to Geothermal Producer by completing the well as follows:

1. Commence drilling approximately 3-8-82
2. Drill 6 inch hole to 10 feet and set 5 1/16 inch conductor
3. Drill 5 inch hole to 100 feet
4. Set 4 1/2 inch casing to approximately 30 feet
5. Place packer in open hole below casing and cement casing to formation bringing cement all the way to the surface
6. Reopen hole

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

SIGNED Richard L. Lohse TITLE Consultant DATE 3-2-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

4-26-82

Mr. Carl Ulvog
Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501.

Dear Mr. Ulvog:

Enclosed please find the original and two copies of the Form G-103 for Well #9 on the H. M. Bailey property near Radium Springs, New Mexico. The well has been completed as a production well and temporarily capped. Also enclosed is a copy of a letter from the cementing and plugging contractor to Harry Bailey. This letter contains the data which you requested on the cementing and plugging operations which took place in your absence on the five temperature observation wells on the H. M. Bailey property. It is my belief that Harry Bailey is now in full compliance with New Mexico state law as pertains to the status and completion of temperature observation

Page 2
Carl Uluog
4-26-82

and geothermal production wells located on his property near Radium Springs, New Mexico. Please inform me if this is not the case.

Sincerely,

Richard L. Lohse

Consultant

Bill for services

Max Klutka
Box 24
Radium Springs
N. M. 88054

H. N. Bailey
Route 1
Box 1288
Las Cruces N.M.

In closing off 5 wells I used the following procedures:

- 1 Dig around casing to a depth of 2 feet
- 2 Cut off casing at 2 feet below the surface.
- 3 Cement and fill wells

Well #10 paper plug pushed to 10 feet
filled with cement from 10 ft to 2 ft
Cement cap 6" thick on top of casing
Hole backfilled to surface

" #11 filled with dirt to 7 feet
" " cement from 7 ft to 2 ft
cement cap 6" thick on top of casing.
Hole back filled to surface.

Well # 12 filled with dirt to 19 feet
" " cement from 19ft to 12ft
" " dirt from 12ft to 4ft
" " cement from 4ft to 2ft
cement cap 6" thick on top of casing
Hole backfilled to surface.

13 filled with dirt to 26 ft
" " cement from 26ft to 19ft
" " dirt from 19ft to 4ft
" " cement from 4ft to 2ft
cement cap 6" thick on top of casing
Hole back filled to surface.

14 filled with dirt to 15 feet
" " cement from 15 feet to 8 ft
" " dirt from 8 ft to 4 ft
" " cement from 4 ft to 2 ft
cement cap 6" thick on top of casing.
hole backfilled to surface

All cement used was Sakrete
concrete mix. 8 bags were
required.

Time

11 hrs shovel work at 4 ⁰⁰ hr.	44 ⁰⁰
4 hrs. torch work at 10 ⁰⁰ hr	40 ⁰⁰
8 hrs. cement work at 7 ⁰⁰ hr.	56 ⁰⁰

Materials

8 bags bags Sakrete at \$250 20⁰⁰

total 160⁰⁰

Max Klutka

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



GARREY CARRUTHERS
GOVERNOR

March 14, 1988

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Commercial Union Insurance Companies
P. O. Box 937001
El Paso, Texas 79937

Attention: Gail A. Magness

Re: \$10,000 Multiple Well, Low-Temperature
Geothermal Bond
Harry N. Bailey, Principal
Bond No. CE 71353-20

Dear Ms. Magness:

I am in receipt of your letter of March 8th regarding the cancellation of the above-referenced geothermal bond. I am enclosing a copy of Mr. Roy E. Johnson's letter of October 17, 1986 regarding the wells remaining on this bond. As the attached letter indicates the Bailey Well No. 9 still remains on this bond so we cannot release it at this time.

If you have any further questions, please feel free to contact me.

Sincerely,

Diane Richardson
DIANE RICHARDSON
Administrator
Bonding Department



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

October 17, 1986

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

Mr. Harry N. Bailey
25256 Terreno Drive
Mission Viejo, California 92675

Re: Geothermal Bond
Radium Springs, New Mexico

Dear Mr. Bailey:

We are in receipt of your letter and waiver of October 5, 1986. Your request for release of the bond on your geothermal wells cannot be released as of this time. According to our records, Alex R. Masson is the new operator of the Bailey Well No. 15 located 522 feet from the North line and 2482 feet from the West line in Section 10, Township 21 South, Range 1 West. The Bailey Well No. 9, located 660 feet from the North line and 2100 feet from the East line of Section 10, Township 21 South, Range 1 West is still officially listed as H. M. Bailey and Associates as operator. In Order for your bond to be released, this well must either be plugged and abandoned or ownership of the well must be transferred to a new operator.

Should you have any questions pertaining to this matter, please contact me at this office.

Sincerely,

ROY E. JOHNSON,
Sr. Petroleum Geologist

REJ/dr

*Well #9
File Copy*

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N.M.B.M.	1	
U.S.G.S.	1	
Operator	1	
Lead 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 N/A FEE

5.a State Lease No.

Private

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

N/A

8. Farm or Lease Name

H.M. Bailey

9. Well No.

#9

10. Field and Pool, or Wildcat

Wildcat

2. Name of Operator
H. M. Bailey & Associates

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

4. Location of Well UNIT LETTER B LOCATED 660 FEET FROM THE North LINE
AND 2100 FEET FROM THE East LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

12. County

Dona Ana

19. Proposed Depth

500

19A. Formation

20. Rotary or C.T.

Rotary

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

21A. Kind & Status Plug. Bond

No. CE-71353-14

21B. Drilling Contractor

Larjon

22. Approx. Date Work will start

30 March 1981

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4-inch	1-inch				

This will be a temperature observation well, with a maximum depth of 500 feet. The well will be completed by inserting a 1-inch steel pipe. After completion of temperature logging, approximately 60 days, the pipe will be removed and the hole will be plugged and abandoned.

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 7-1-81
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 Eddie Bailey Eddie Bailey Title Local Agent, H.M. Bailey & Assoc. Date 27 March 1981

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST

DATE 4/2/81

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 H. M. Bailey & Assoc.		Lease Private		Well No. 9
Unit Letter B	Section 10	Township 21S	Range 1W	County Dona Ana

Actual Footage Location of Well:

2100 feet from the **East** line and **660** feet from the **North** line

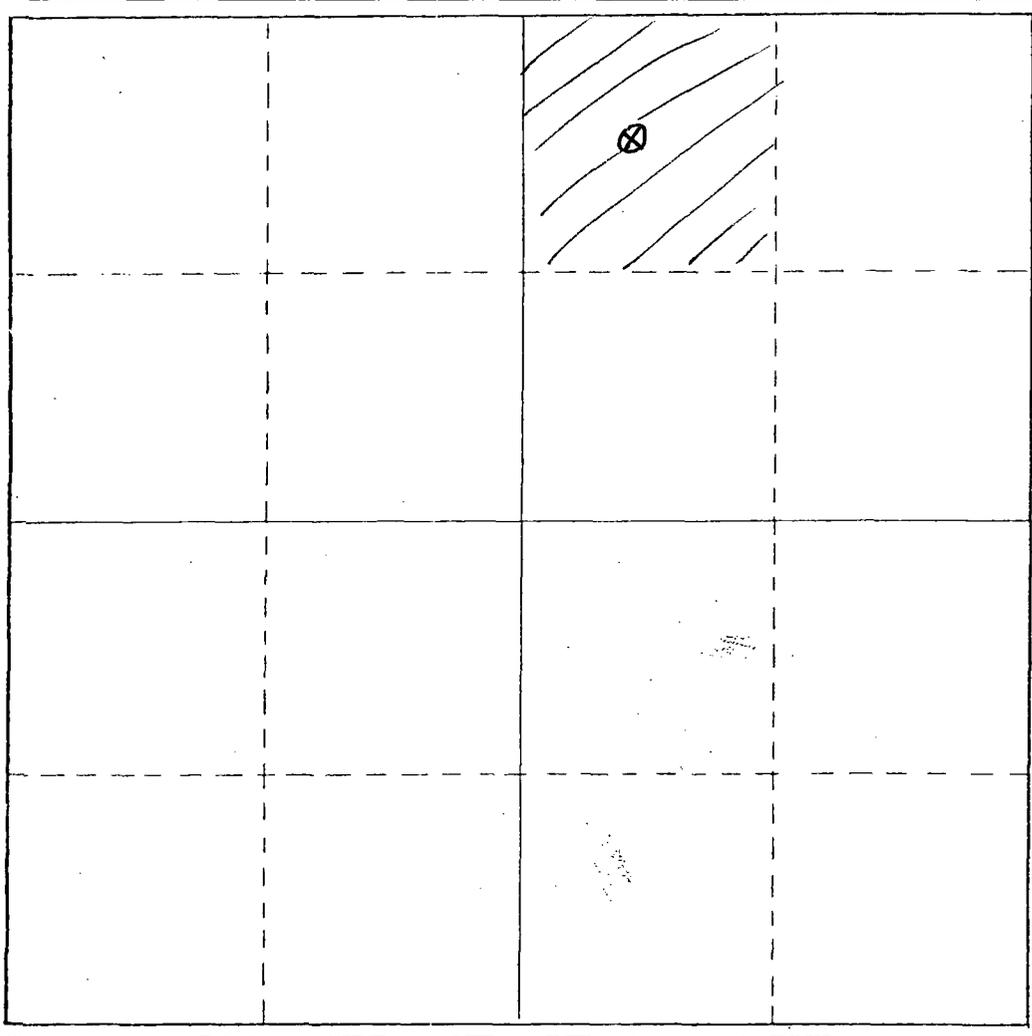
Ground Level Elev.	Producing Formation Unknown	Pool Wildcat	Dedicated Acreage: 5 Acres
--------------------	---------------------------------------	------------------------	--------------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

Eddie Bailey

Name	Eddie Bailey
Position	
Company	H.M. Bailey & Assoc.
Date	27 March 1981

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. _____



Memo

4/30/81

From

CARL ULVOG

To File Bailey #9 Bailey
B-10-215-1W Dona Ana Co.

No notification given OCD of
spudding, casing, or completion.

Inspection on 4/28/81 found
drilling done, 7" casing at surface.
No other pipe in evidence. (see picture)

Hold for inspection

\$ G-106

off to go on production -

need G-104, 105 & 107

additional.

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

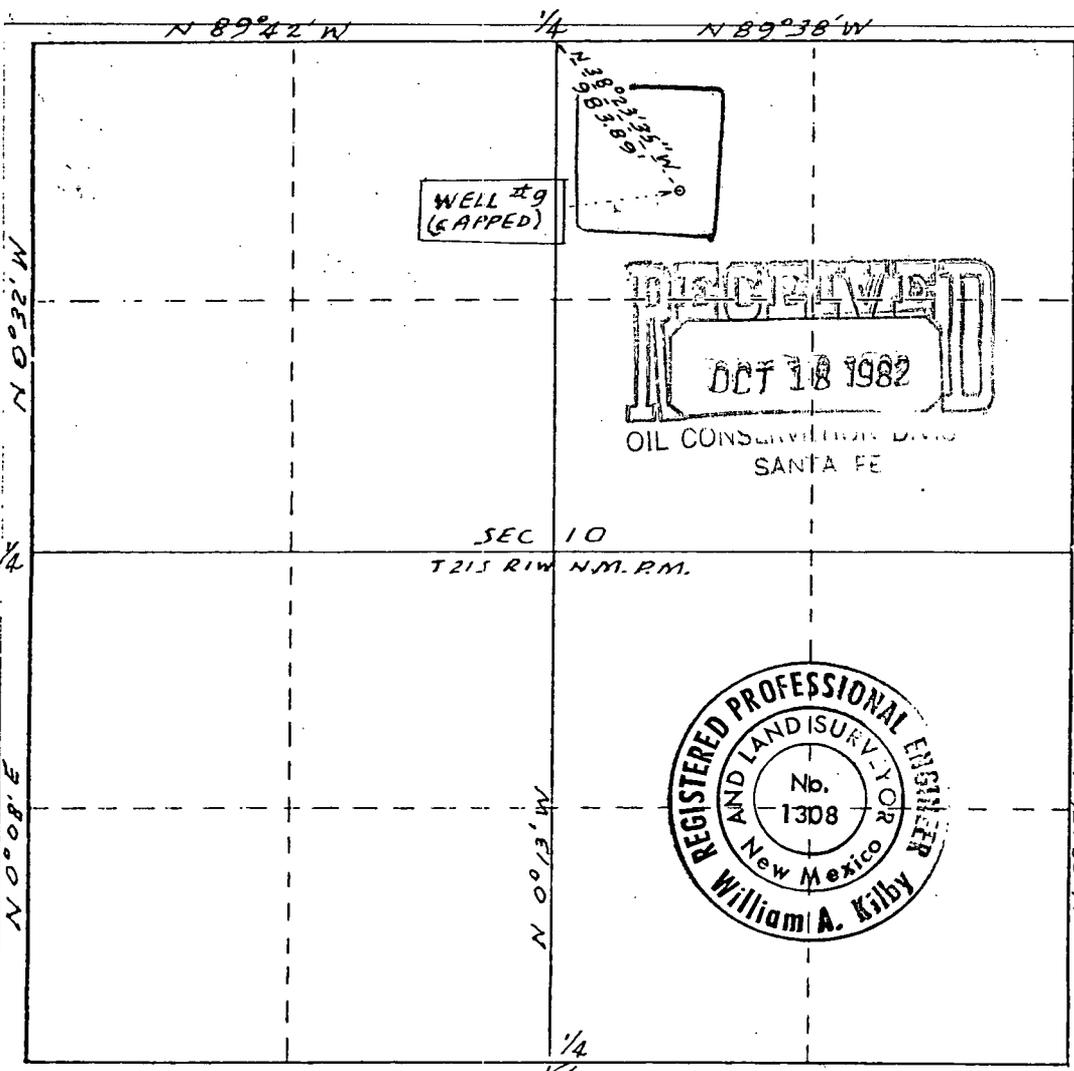
Operator H. N. Bailey		Lease H.N. Bailey		Well No. 9
Unit Letter B	Section 10	Township 21S	Range 1 W	County Dona Ana
Actual Footage Location of Well: 767.22 feet from the North line and 2036.25 feet from the East line Sec. 10				
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 10 Acres	

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 Commission.



CERTIFICATION

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

Name *H. N. Bailey*
H. N. Bailey

Position
Owner

Company
H. N. Bailey

Date
OCT 10, 1982

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 *William A. Kilby*
Sept. 25, 1982

Registered Professional Engineer and/or Land Surveyor
P.E. & L. S.

Certificate No. **1308**

1 South, Range No. 1 West of the New Mex. Princ. Merid.

Sec. 5

Sec. 4

Sec. 3

1917 Survey
Sec. 2

Sec. 8

Sec. 9

Sec. 11

Sec. 17

Sec. 16

Sec. 20

Sec. 21





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

November 9, 1982

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

Commercial Union Insurance Companies
P. O. Box 20666
El Paso, Texas 79998

Re: \$10,000 Multiple-Well Low-
Temperature Geothermal Bond
Harry N. Bailey, Principal
Commercial Union Insurance, Surety
Bond No. CE-71353-20

Gentlemen:

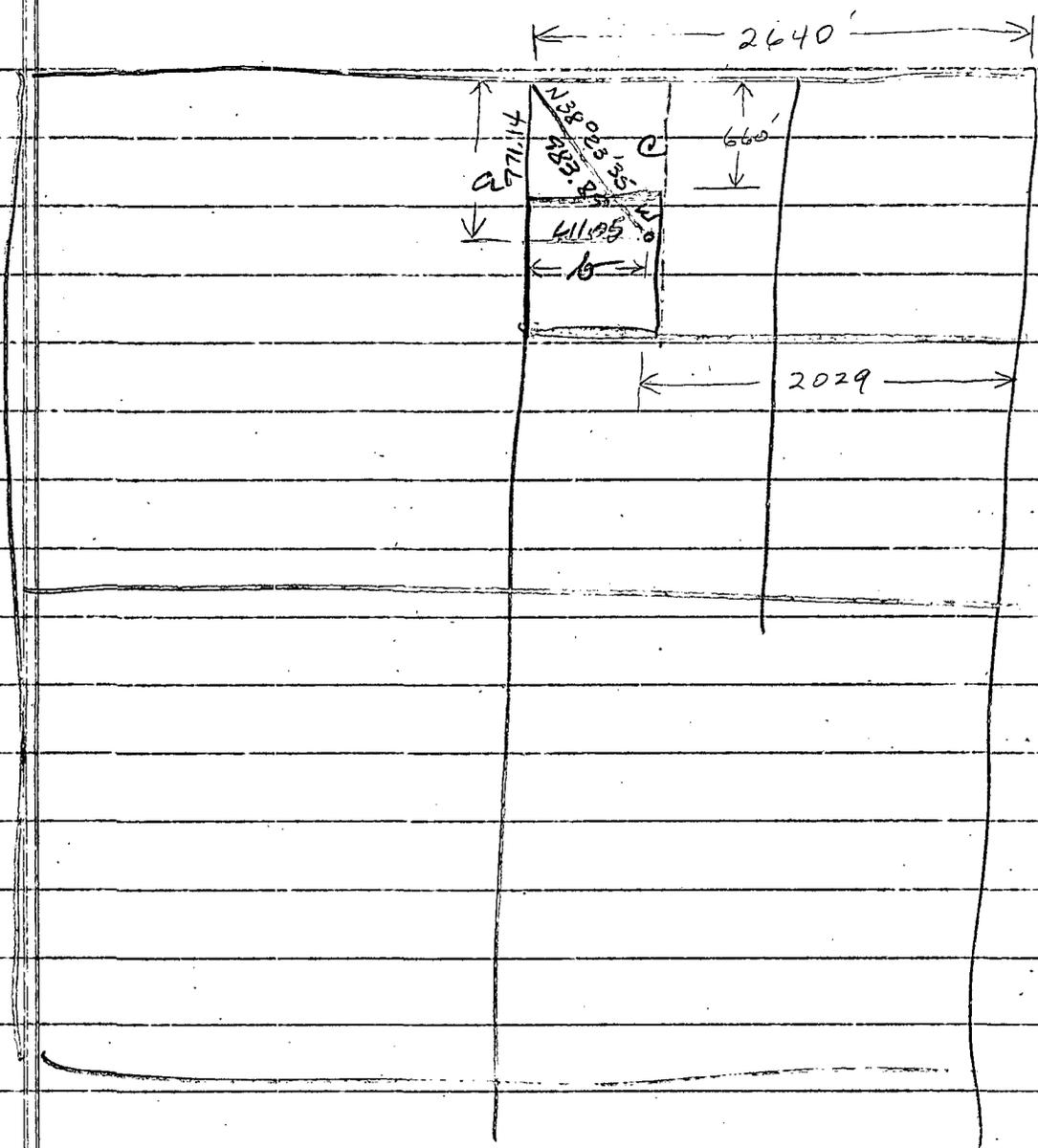
I have checked with Mr. Carl Ulvog of this office regarding the cancellation of the above-referenced bond. He advises me that this bond still cannot be released as the paperwork for the No. 9 Well (B-10-21S-1W) is not complete.

Please have Mr. Bailey contact Mr. Ulvog regarding the forms which should be submitted. Mr. Ulvog has suggested that this bond could be released if Mr. Bailey obtained a one-well bond for the No. 9 well referred to above.

If we can be of any further assistance, please advise.

Sincerely,

DIANE RICHARDSON
Administrative Secretary
Legal Department



$$\sin C = \frac{b}{c} \quad \sin C = \frac{b}{c}$$

$$\sin 983.89 = 611.05 = b \quad (2640' - 611' = 2029' \quad \text{2036}'$$

$$\sqrt{c^2 - b^2} = a = 771.14 \quad 767'$$

7/19/82

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION

Form G-10
Adopted
JUL 16 1982

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

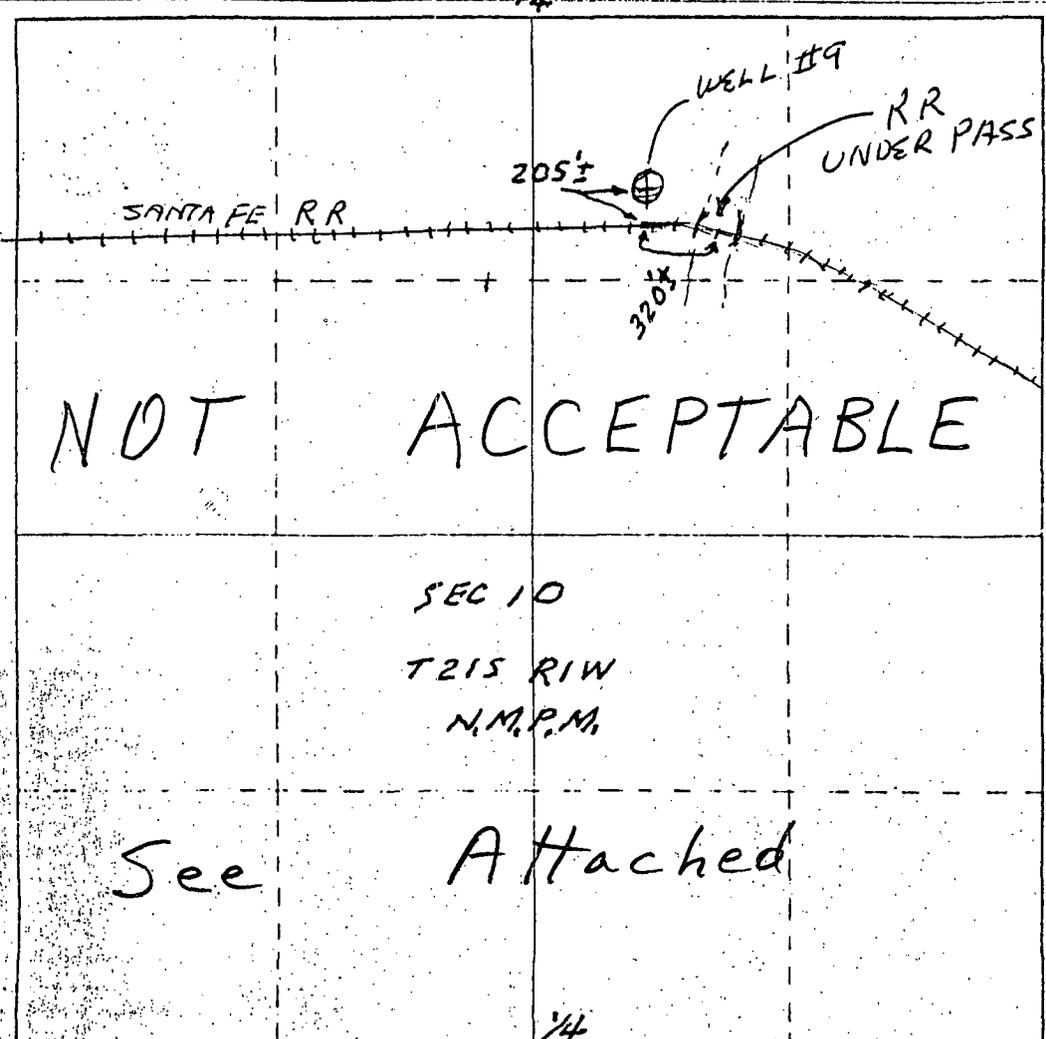
Operator H.N. BAILEY		Lease OWNER H.N. Bailey		Well No. SA 19	
Unit Letter B	Section 10	Township 21 S	Range 1 W	County DONA ANA	
Actual Footage Location of Well: ? feet from the ? line and ? feet from the ? line					
Ground Level Elev. 4025	Producing Formation 4005	Pool		Dedicated Acreage: 1.70 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated (communization, 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 necessary.) _____

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

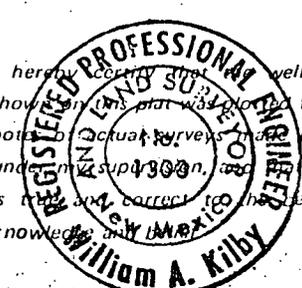


CERTIFICATION

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

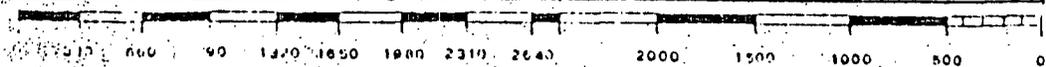
Name **H.N. BAILEY**
 Position **OWNER**
 Company **H.N. BAILEY**
 Date _____

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



William A. Kilby
 Date Surveyed **JULY 5, 1982**
 Registered Professional Engineer and/or Land Surveyor
P.E. & L.S.

Certificate No. **#1308**



RULE 201. APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK-GEOTHERMAL RESOURCES WELL (FORM G-101)

Before commencement of drilling or deepening operations of any geothermal resources well, or before plugging a well back to another zone, the operator of the well shall obtain a permit to do so. To obtain such a permit the operator shall submit to the Commission FOUR copies of Form G-101, Application for Permit to Drill, Deepen, or Plug Back-Geothermal Resources Well, completely filled in. If the operator has an approved bond in accordance with Rule 101 and has filed satisfactory "Designation of Agent" (Rule 100), and the proposed well meets the spacing and well location requirements (Rule 104), one copy of the Drilling Permit will be returned to him on which will be noted the Commission's approval, with any modification deemed advisable. If the proposal cannot be approved for any reason, the Forms G-101 will be returned with the cause for rejection stated thereon.

Each copy of Form G-101 must be accompanied by one copy of Form G-102, Geothermal Resources Well Location and Acreage Dedication Plat. (See Rule 202.)

If the well is to be drilled on state land, FIVE copies of Forms G-101 and G-102 shall be submitted, the extra copy being for the State Land Office.

RULE 202. GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT. (FORM G-102)

Form G-102 is a dual purpose form used to show the exact location of the well and the acreage dedicated thereto. The form is also used to show the ownership and status of each lease contained within the dedicated acreage. When there is more than one working interest or royalty owner on a given lease, designation of the majority owner et al. will be sufficient.

All information required on Form G-102 shall be filled in and certified by the operator of the well except the well location on the plat. This is to be plotted from the outer boundaries of the section and certified by a registered professional engineer and/or land surveyor, registered in the State of New Mexico, or a surveyor approved by the Commission.

Form G-102 shall be submitted in QUADRUPLICATE or QUINTUPLICATE as provided in Rule 201.

Amended Form G-102 (in QUADRUPLICATE or QUINTUPLICATE) shall be filed in the event there is a change in any of the information previously submitted. The well location need not be certified when filing amended Form G-102.

RULE 104. WELL SPACING

B. ACREAGE AND WELL LOCATION REQUIREMENTS

(1) Exploration Wells

A well classified as an exploratory well shall be located on a designated drilling tract comprising at least 40 surface acres (being a quarter-quarter section of the U. S. Public Land Surveys, or a projection thereof if on unsurveyed land), and shall be located at least 330 feet from the outer boundary of the quarter-quarter section, at least 660 feet from the nearest such other well drilling to or capable of producing from or injection into the same formation to which it is projected, and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(2) Development Wells

A well classified as a development well shall be located on a designated drilling tract comprising at least 10 surface acres (being a quarter-quarter-quarter section of the U. S. Public Land Surveys, or a projection thereof if on unsurveyed land), and shall be located at least 165 feet from the outer boundary of the quarter-quarter-quarter section, at least 330 feet from the nearest well drilling to or capable of production from or injection into the same geothermal reservoir to which it is projected, and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(3) Injection Wells

Injection wells drilled for the purpose of injecting into a geothermal reservoir shall be located at least 330 feet from the outer boundary of the lease or drilling parcel and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(4) Disposal Wells

There shall be no restriction as to the placement of geothermal disposal wells.

C. NON-STANDARD LOCATIONS

(1) The Secretary-Director of the Commission shall have the authority to grant an exception to the well location requirements of Rules B (1), (2), and (3) above without notice and hearing when such application is based upon topographical or geologic or engineering considerations.

(2) Applications for such administrative approval shall be filed in duplicate and shall be accompanied by a plat showing the ownership of surrounding lands (within a 990-foot radius of the proposed location if application is for exception to Rule 104 B (1) Exploration Wells; within a 495-foot radius of the proposed location if application is for exception to Rule 104 B (2) Development Wells; within a 990-foot radius of the proposed location if application is for exception to Rule 104 B (3) Injection Wells) and all drilling or completed wells thereon. If the proposed non-standard location is based upon topography, the plat shall also show the existent topographical conditions. If it is based upon geologic or engineering considerations, the application shall be accompanied by a geologic or engineering analysis, explaining the necessity for the non-standard location.

Harry Bailey

Memo

7-13-52

To: Carl Alving
N.M. Oil Cont. Div.

Dear Carl

Sorry to have missed you the other day when I was in Santa Fe -

The inclosed form 102 should take care of any unfinished items I at Radium Springs -

Will let you know when we are ready to drill the next production well -

Regards

Harry

NEW MEXICO OIL CONSERVATION COMMISSION
 P. O. BOX 2088 SANTA FE 87501
 GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

Form G-10
 Adopted 10/1/78
JUL 16 1982

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

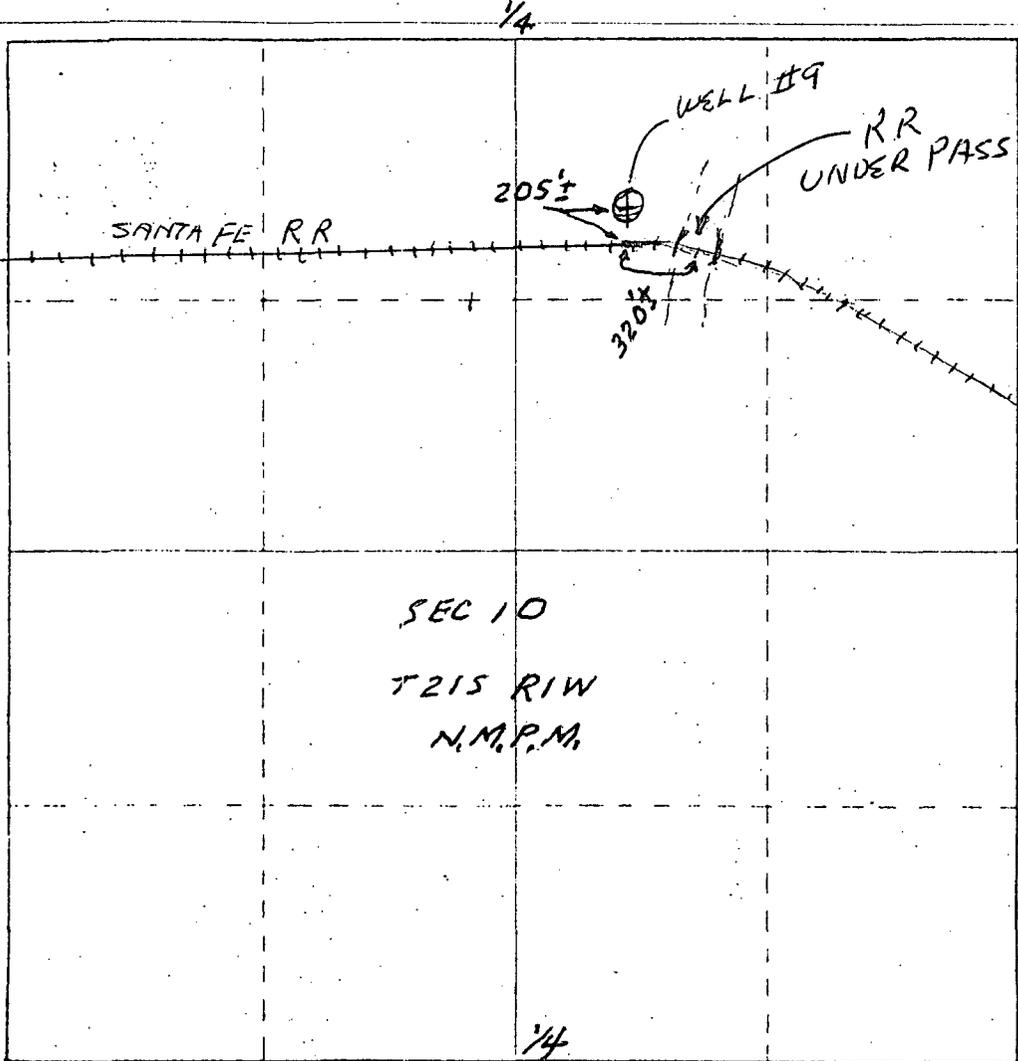
Operator H. N. BAILEY		Lease OWNER			Well No. SAT 19
Unit Letter	Section 10	Township 21 S	Range 1 W	County DONA ANA	
Actual Footage Location of Well:					
Ground Level Elev. 4025	Producing Formation 4005	Pool	Dedicated Acreage: 120 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 necessary.) _____

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

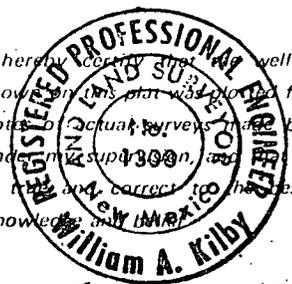


CERTIFICATION

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

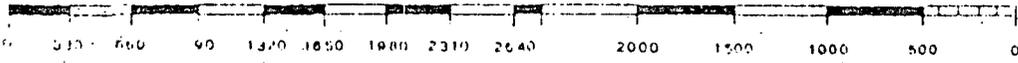
H. N. BAILEY
 Name
H. N. Bailey
 Position
OWNER
 Company
H. N. BAILEY
 Date

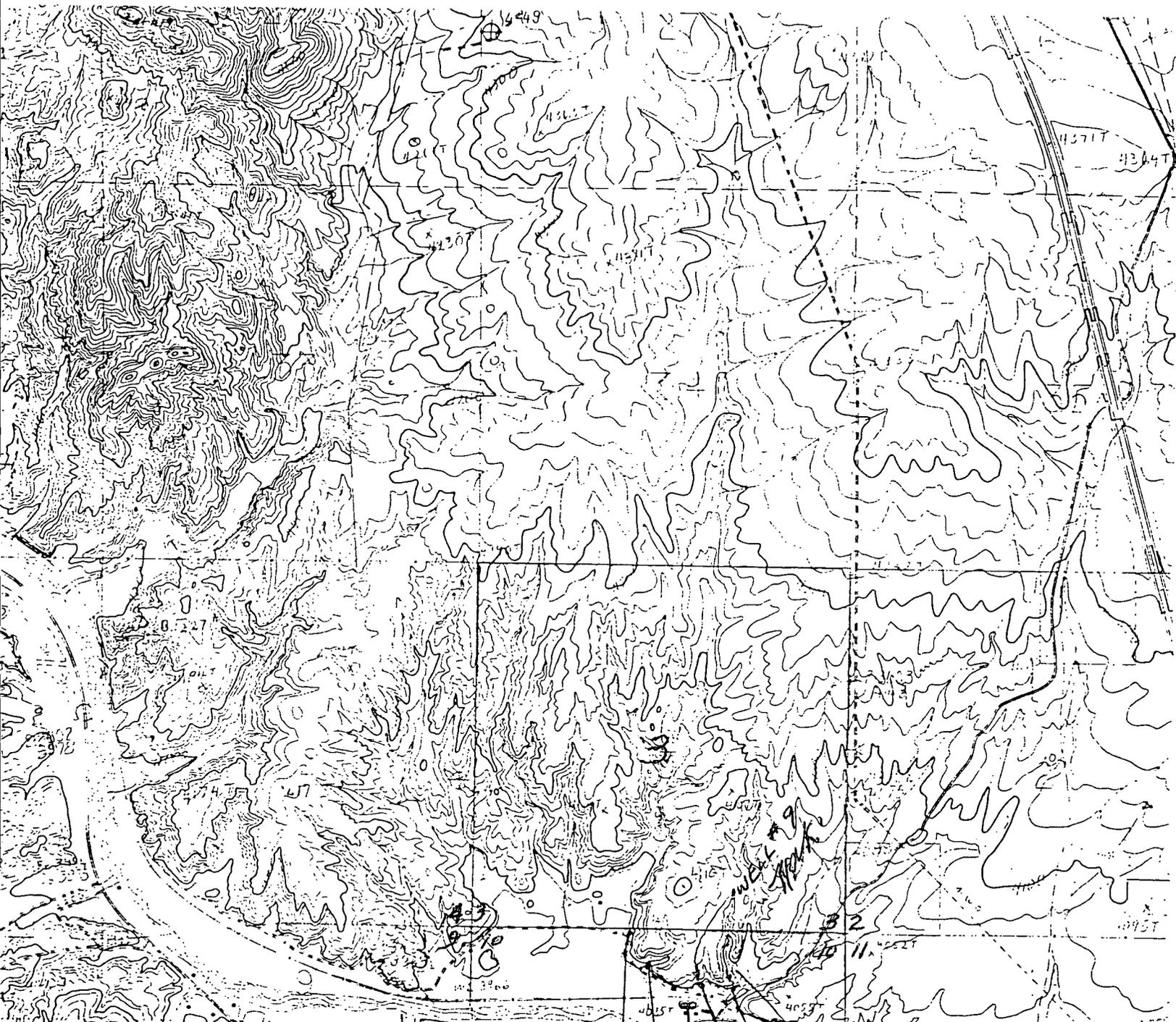
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and the same is true and correct to the best of my knowledge.



William A. Kilby
 Date Surveyed
JULY 5, 1982
 Registered Professional Engineer
 and/or Land Surveyor
P.E. & L.S.

Certificate No.
#1308





HNBailey
WELLS NO. 10, 14, 11, 9, 12, 13
THERMAL PRODUCTION, and
Gradient
T215 RIW N.M., P.M.

Scale 1:24,000

CONTOUR INTERVAL 20 FEET

June 30, 1982

Harry Bailey
H.N. Bailey & Associates
410 Thorpe Road
Las Cruces, N.M. 88005

Dear Harry:

According to your telephone call of June 28, 1982, you do not understand why your completion of the Bailey Well No. 9 (B-10-215-1W) has not been approved. Attached are copies of notices sent to your address of record (P.O. Box 1288) which should be self-explanatory. However, since Rule 202 has not yet been complied with, here is a reprint of that rule for your information.

RULE 202. GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT. (FORM G-102)

Form G-102 is a dual purpose form used to show the exact location of the well and the acreage dedicated thereto. The form is also used to show the ownership and status of each lease contained within the dedicated acreage. When there is more than one working interest or royalty owner on a given lease, designation of the majority owner et al. will be sufficient.

All information required on Form G-102 shall be filled in and certified by the operator of the well except the well location on the plat. This is to be plotted from the outer boundaries of the section and certified by a registered professional engineer and/or land surveyor, registered in the State of New Mexico, or a surveyor approved by the Division.

Form G-102 shall be submitted in QUADRUPPLICATE or QUINTUPPLICATE as provided in Rule 201.

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

MAR 8 1982

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	1
N. M. B. M.	
U. S. G. S.	
Operator	1
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION

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 N/A
2. Name of Operator H.N. Bailey & Associates	8. Farm or Lease Name H.N. Bailey
3. Address of Operator Route 1, Box 1288, Las Cruces, New Mexico 88001	9. Well No. 9
4. Location of Well Unit Letter B ; 2000 Feet From The East Line and 800 Feet From The North Line, Section 10 Township 21S Range 1W NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GL 3980 feet	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 type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER location above is corrected location <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.

Propose to change well #9 from Temperature Observation status to Geothermal Producer by completing the well as follows:

- Commence drilling approximately 3-8-82
- Drill 6 inch hole to 10 feet and set 5 1/16 inch conductor
- Drill 5 inch hole to 100 feet
- Set 4 1/2 inch casing to approximately 30 feet
- Place packer in open hole below casing and cement casing to formation bringing cement all the way to the surface
- Reopen hole

Copy of notice sent operator 3/8/82

Above proposal OK, but approval requires Form C-102 signed by licensed surveyor. See Rule 202

6-4-82

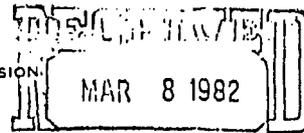
Dick Lohse:

Here is copy of O.C.D. response to G-103 dated 3-2-82. This explains why that Notice of Intent was not officially approved (in writing).

Copy of notice mailed 6/4/82

NO. OF COPIES RECEIVED	
DISTRIBUTION	
File	1
N. M. B. M.	
U. S. G. S.	
Operator	1
Land Office	

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

OIL Conservation Division
SANTA FE

Indicate Type of Lease
State Fee

5.a State Lease No.
Private

7. Unit Agreement Name
N/A

8. Farm or Lease Name
H. N. Bailey

9. Well No.
9

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 feet

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 Temp. Observation
Low-Temp Thermal Injection/Disposal

2. Name of Operator
H. N. Bailey & Associates

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

4. Location of Well
Unit Letter B; 2020 Feet From The East Line and 800 Feet From
The North Line, Section 10 Township 21S Range 1W NMPM.

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 CHANGE PLANS
PULL OR ALTER CASING OTHER

SUBSEQUENT REPORT OF:

REMEDIAL WORK ALTERING CASING
COMMENCE DRILLING OPNS. PLUG & ABANDONMENT
CASING TEST AND CEMENT JOB OTHER location above is corrected location

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.

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6. Reopen hole

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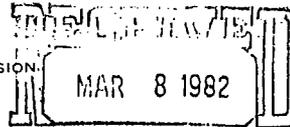
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DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S		
Operator	1	
Land Office		

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

OIL CONSERVATION DIVISION

Specify Type of Lease

State Fee

5.a State Lease No.

Private

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
H.N. Bailey + Associates

8. Farm or Lease Name

H.N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.

9

4. Location of Well
Unit Letter B ; 2000 Feet From The East Line and 800 Feet From

10. Field and Pool, or Wildcat

Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

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

GL 3980 Feet

12. County

Dona Ana

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

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TEMPORARILY ABANDON
PULL OR ALTER CASING CHANGE PLANS

SUBSEQUENT REPORT OF:

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

OTHER location above is corrected location

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

RECEIVED
MAR 8 1982

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION

SANTA FE

Indicate Type of Lease
State Fee

5.a State Lease No.

Private

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	<input checked="" type="checkbox"/>
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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Geothermal Producer Temp. Observation
Low-Temp Thermal Injection/Disposal

7. Unit Agreement Name

N/A

2. Name of Operator

H.N. Bailey & Associates

8. Farm or Lease Name

H.N. Bailey

3. Address of Operator

Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.

9

4. Location of Well

Unit Letter B; 2000 Feet From The East Line and 800 Feet From

10. Field and Pool, or Wildcat

Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

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

GL 3980 feet

12. County

Dona Ana

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

NOTICE OF INTENTION TO:

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 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 location above is corrected location

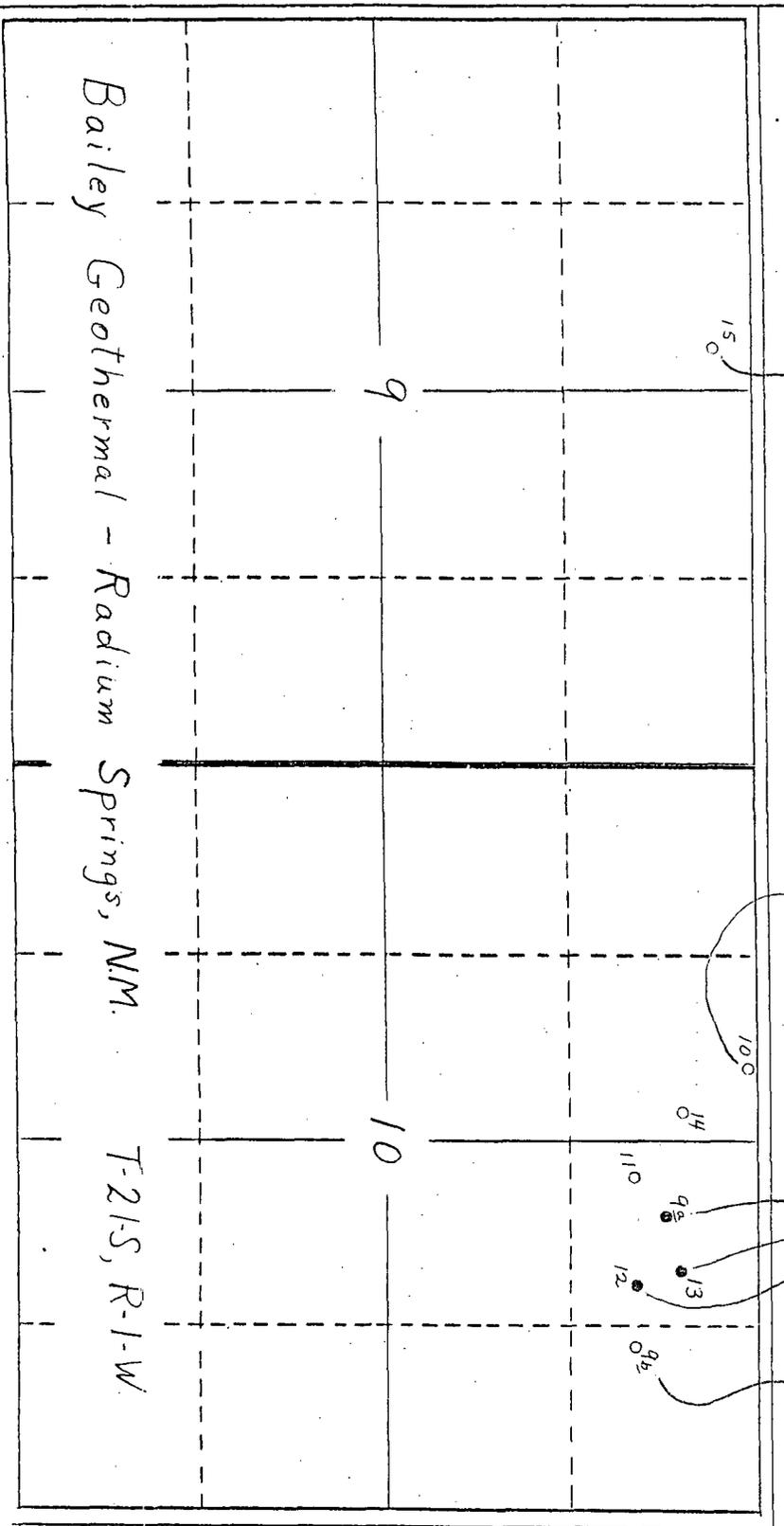
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6. Reopen hole

Above proposal OK, but approval requires Form C-102 signed by licensed surveyor. See Rule 202

3/8/82



Not permitted

Drilled & equipped as proper gradient holes

Cased w/ 5/8" not cemented

Permitted, not drilled, permit cancelled.

Bailey Geothermal - Radium Springs, NM. T-21-S, R-1-W

Memo: To File Bailey #9, B-10-215-1W

On 2/24/82, I met with H. Bailey and Dick Lohse in Las Cruces. At that time, previously agreed to plan for plugging all Bailey wells began; except for #9, which Bailey changed his mind on. He then wanted to keep #9 for observation purposes. Proposal submitted 3/8/82 is essentially the approved option to the plugging demand.

Note: The 5 9/16" csg. is already at 10' but not cemented. The 5" hole is already drilled to 100'.

Carl Ulvog

FIELD TRIP REPORT

2/23/82

to

Name Carl Ulvog

Date 2/25/82

Miles 745

District IV

Time of Departure 10:00 A.M. 2/23

Time of Return 6:00 P.M. 2/25

Car No. 6650

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Carl Ulvog

INSPECTION	CLASSIFICATION	FACILITY	HOURS	QUARTER	HOURS
P	O	D	18		
R	O	D	8		
T	O	D	9		
-	-	-	21		

From Santa Fe to Dona Ana and Luna County for well inspections and witnessing various well operations.

B & C -10-21S-1W (5 wells): Examine conditions at wells permitted as geothermal gradient (heat flow) wells but not properly completed. Develop plugging programs and witness plugging. Case No. 7469. (Bailey)

B-10-21S-1W (1 well): Inspect geothermal observation well improperly completed. Prescribe (a) plugging program or (b) workover and casing-cementing procedure to maintain observation status. (Bailey)

K-4-24S-8W (1 well): Inspect wildcat oil test. Drilled below 12,000' and now testing. Well-head in place, froc lines hooked to pump truck and acid tanks. No personnel on location. (Seville-Trident)

Off duty field time.

Mileage

UIC _____

RFA _____

Other 745

Per Diem

UIC _____

RFA _____

Other \$81.00

Hours

UIC _____

RFA _____

Other 56

TYPE INSPECTION PERFORMED

INSPECTION CLASSIFICATION

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- H = Housekeeping
- P = Plugging
- C = Plugging Cleanup
- T = Well Test
- R = Repair/Workover
- F = Waterflow

- U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R = Inspections relating to Reclamation Fund Activity

- D = Drilling
- P = Production
- I = Injection
- C = Combined prod. inj. operations
- S = SWD

RECEIVED
JUN 30 1981

Harry N. Bailey

OIL CONSERVATION DIVISION
SANTA FE

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

June 27, 1981

State of New Mexico
Oil Conservation District
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: Carl Ulvog
Subject: Radium Springs Tests
Second Report

Dear Mr. Ulvog:

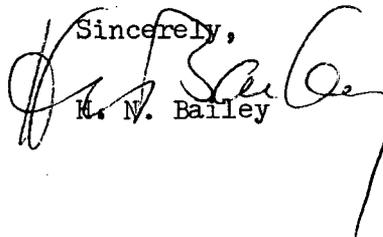
Dick Loshe who is now working on the geology report advises it will be completed by the end of this month. As soon as we have reviewed this data we will determine which holes will be filled and abandoned, and which will be prepared for use and which will be subjected to further drilling.

Mr. Loshe will meanwhile act as my representative on this project with instructions to coordinate these matters with your office to assure that we are proceeding in accordance with regulations. If we encounter any unresolved problems concerning permits or procedures, he will advise me and we will arrange whatever action is necessary. Should you need to contact him his new home number is 505-526-8870 in Las Cruces.

Of course, our objectives in making these shallow probes, regardless of what we call them, is to determine the availability, depth and temperatures of the surface waters on our property. Further studies and research will be needed to determine the best use that can be made of this resource.

As soon as I have a chance to read the report we will see that you get a copy as promised.

Sincerely,

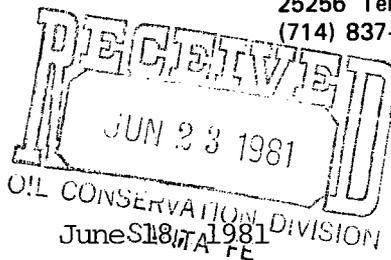


H. N. Bailey

cc: Dick Loshe
Eddie Bailey
Philo Jones

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150



State of New Mexico
Energy and Minerals Dept
Post Office Box 2088
Santa Fe, New Mexico 87501

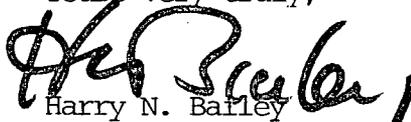
Attention: Oil Conservation Division
Carl Ulvog

Subject: Test Holes at Radium Springs

This is an interium report pursuant to our phone conversation last week and is hased preliminary information phoned by Larjon.

1. All drilling has been discontinued as of 15 June 1981.
2. Test hole locations have been posted with identifying signs with serial numbers.
3. H.N.B. #14 was discontinued at 130° - water developed in the lost 30' with temperatures 144°.
4. H.N.B. #15 was discontinued at 27' with capious flow (approx 100 g.p.m. at 144°). The heat and flow generated, posed operating problems that led to shutting down for safety reasons.
5. Geologist from N.M.S.U. is preparing a report based on a study of the area and preliminary surface drilling activities.
6. Decision on further tests, abandonment (filling up the holes) and/or casing program for production wells will be based on study of above report expected next week.
7. We will be glad to make a copy available to your division when G103 forms are filed. It is our desire to keep you posted as events transpire and trust we will be in compliance with district and state regulations. Your continued interest and cooperation is very much appreciated.

Yours very truly,


Harry N. Bailey

H. N. BAILEY

and

ASSOCIATES

Aerospace Products

P. O. BOX 10788

SANTA ANA, CALIFORNIA 92711

Tele (714) 835-1911

Las Cruces Title 524-1406

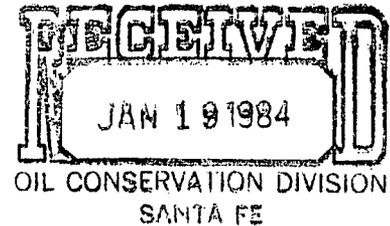
The following wells are on our property at Radium Springs
New Mexico

	LOCATION	SECTION	TWP	RGE	APPROX DEPTH	APPROX CAPACITY
1.	Lot 11 SE $\frac{1}{4}$ Cattle Watering	4	21S	1W	50'	5 GPM
2.	S $\frac{1}{2}$, S $\frac{1}{2}$ Mid Pints - Windmill -- Household use	3	21S	1W	35'	4 GPM
3.	Lot 9 N $\frac{1}{2}$, N $\frac{1}{2}$ Cattle Watering	10	21S	1W	30'	4 GPM
4.	Lot 11 N $\frac{1}{2}$, N $\frac{1}{2}$ 7" Production well drilled by Bob Boyd	10	21S	1W	110'	1500GPM
5.	No Pt Lot 2 N $\frac{1}{2}$ of N $\frac{1}{2}$ Hot water well for Bailey Baths	10	21S	1W	25'	10 GPM
6.	No Pt Lot 4 Hot Bath House well (Not in use)	10	21S	1W	20'	5 GPM
7.	SW $\frac{1}{4}$, NW $\frac{1}{4}$ of WHF & SE Well drilled by Bob Boyd between Ft. Selden Ruins and USRS Canal on west side of the Fort.	14	21S	1W	110'	140 GPM
8.	The following well is west of the village of Dona Ana	22	T22	1E	430'	50 GPM

Former elementary school, further described in USRS Tract 4-49B1 and 4-49B
This facility is leased to Kit Pack Company by H. N. Bailey

1962 Embassy, Apt. D
Las Cruces, New Mexico 88005
January 16, 1984

Mr. Carl Ulvog, Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



Dear Carl:

I hope you and your family had a happy and safe Holiday Season. As we discussed in our telephone conversation just prior to the holiday break, I am submitting the originals along with the appropriate number of copies of the Form G-103 for the wells labeled H.N. Bailey #9 and #15. The forms are filed as a "subsequent report of" Temporary Abandonment and state the manner in which the wells were capped.

Harry Bailey would like Temporary Abandonment permits for both of these wells for the following reason. Negotiations to utilize the geothermal fluids are currently being held between Mr. Bailey and several potential geothermal users; however, the talks are not advanced enough at this time to allow for the proper design and construction of the production well-heads in such a manner as to obtain the optimum efficiency of the wells.

It is understood that before any work can be performed on the wells, they will have to be taken off the Temporary Abandonment status. Also, before production can occur, the wells will have to be equipped with the proper well-head equipment and the proper discharge permits will have to be obtained. Currently, both wells have steel plates welded to the top of the production casings.

Sincerely,

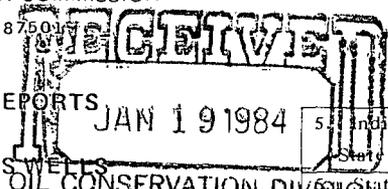
A handwritten signature in cursive script that reads "Richard L. Lohse".

Richard L. Lohse
Geothermal Consultant

cc: Harry Bailey

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501



NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State Fee

6. State Lease No.
Private

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1. Type of well Geothermal Producer <input checked="" type="checkbox"/> Temp. Observation <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator H. N. Bailey & Associates	8. Farm or Lease Name H.N. Bailey
3. Address of Operator 410 Thorpe Rd., Las Cruces, NM 88005	9. Well No. 9
4. Location of Well Unit Letter <u>B</u> ; <u>2036</u> Feet From The <u>East</u> Line and <u>767</u> Feet From <u>800</u> The <u>North</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GL 3,980 feet	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 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 <u>Temporary Abandonment</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.

This well is temporarily capped by a steel plate which is welded to the production casing (i.e., conductor pipe).

AUTHORIZATION FOR MAINTENANCE IN SHUT-IN OR
TEMPORARY ABANDONMENT STATUS EXPIRES 1-19-85

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

SIGNED Richard L. Lohse TITLE Consultant DATE 1-16-84

APPROVED BY Carl Woog TITLE DISTRICT SUPERVISOR DATE 1-19-84

CONDITIONS OF APPROVAL, IF ANY:

STATE OF NEW MEXICO
\$2,000 ONE-WELL LOW-TEMPERATURE THERMAL WELL
OR GEOTHERMAL OBSERVATION WELL BOND

Revised 7-1-75

BOND NO. CE-71353-14
(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

KNOW ALL MEN BY THESE PRESENTS:

That HARRY N. BAILEY, (An individual) (a partnership)
(a corporation organized in the State of NEW MEXICO, with its principal office in the city of
LAS CRUCES, State of NEW MEXICO, and authorized to do business in
the State of New Mexico), as PRINCIPAL, and COMMERCIAL UNION INSURANCE COMPANY, a
corporation organized and existing under the laws of the State of MASSACHUSETTS, and authorized
to do business in the State of New Mexico, with duly appointed resident agent licensed in the State of New Mexico to
execute this bond on behalf of the surety company, as SURETY, are held firmly bound unto the State of New Mexico,
for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Chapter 272, Laws of 1975, in
the sum of Two Thousand (\$2,000.00) Dollars lawful money of the United States, for the payment of which, well and
truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and
severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases with the
State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases on lands
patented by the United States of America to private individuals and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or
may commence the drilling of one well to prospect for and produce geothermal resources, or does own or may acquire,
own or operate such well, or such well started by others on land embraced in said State geothermal resources leases, on
lands patented by the United States of America to private individuals, and on lands otherwise owned by private
individuals, the identification and location of said well being:

Lease	Well Number	Unit Letter	Section	Township	Range
<u>PRIVATE</u>	<u>H.N. BAILEY-9</u>	<u>B</u>	<u>10</u>	<u>21-SOUTH</u>	<u>1-WEST</u>

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or
any of them, shall plug said well, if non-productive or when abandoned in accordance with the rules, regulations, and
orders of the Oil Conservation Commission of New Mexico in such way as to confine any geothermal resources or oil, gas,
and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with
any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, that thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of
written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or
wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said
notice, as to property or wells theretofore acquired, drilled, or started.

HARRY N. BAILEY
PRINCIPAL
RT. 1, BOX 1288, LAS CRUCES, NM 88001
Address

COMMERCIAL UNION INSURANCE COMPANY
SURETY
ONE BEACON STREET, BOSTON, MASSACHUSETTS
Address

By Harry N. Bailey
Signature
OWNER
Title

By Eugene D. Bishop
Attorney-in Fact

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

(Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:
Claudia Bailey
New Mexico Resident Agent

225 E. IDAHO, #21, LAS CRUCES, NEW MEXICO 88001
Address

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF NEW MEXICO)
COUNTY OF DONA ANA) ss.

On this 31st day of MARCH, 19 81, before me personally appeared HARRY N. BAILEY, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

9-10-81
My Commission expires

[Signature]
Notary Public

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me personally known who, being by me duly sworn, did say that he is _____ of _____ and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

My Commission expires _____

Notary Public

ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is _____ of _____ and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the COMMERCIAL UNION INSURANCE COMPANY, a corporation duly organized and existing under the laws of the Commonwealth of Massachusetts, and having its principal office in the City of Boston, Mass., hath made, constituted and appointed, and does by these presents make and constitute and appoint Gene D. Bishop of Las Cruces, New Mexico.

its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf as surety any and all bonds or undertakings

and the execution of such bonds or undertakings in pursuance of these presents, shall be binding upon said Company as fully and amply, to all intents and purposes, as if such bonds were signed by the President, sealed with the corporate seal of the Company, and duly attested by its Secretary, hereby ratifying and confirming all the acts of said Attorney-in-Fact pursuant to the power herein given. This Power of Attorney is made and executed pursuant to and by authority of the following resolutions adopted by the Board of Directors of the COMMERCIAL UNION INSURANCE COMPANY at a meeting duly called and held on the twenty-seventh day of July, 1972:

Resolved, That the President, or any Vice-President, or any Assistant Vice President, may execute for and in behalf of the company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, the same to be attested when necessary and the seal of the company affixed thereto by the Secretary, or any Assistant Secretary; and that the President, or any Vice President, or Assistant Vice President, may appoint and authorize an Attorney-in-Fact to execute on behalf of the company any and all such instruments and to affix the seal of the company thereto; and that the President, or any Vice-President, or any Assistant Vice-President, may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That Attorneys-in-Fact may be given full power and authority to execute for and in the name and on behalf of the company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the company as if signed by the President and sealed and attested by the Secretary, and, further, Attorneys-in-Fact are hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and are also authorized and empowered to certify to a copy of any of the by-laws of the company as well as any resolution of the Directors having to do with the execution of bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and to certify copies of the Power of Attorney or with regard to the powers of any of the officers of the company or of Attorneys-in-Fact.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Directors of the COMMERCIAL UNION INSURANCE COMPANY at a meeting duly called and held on the twenty-seventh day of July, 1972:

"Resolved: That the signature of the President, or any Vice-President, or any Assistant Vice President, and the signature of the Secretary or any Assistant Secretary and the Company Seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Attorneys-in-Fact for purposes only of executing and attesting any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the company as the original signature of such officer and the original seal of the company, to be valid and binding upon the company with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, the COMMERCIAL UNION INSURANCE COMPANY, has caused these presents to be signed by its Assistant Vice-President and its corporate seal to be hereto affixed, by its Secretary this 31st day of December 19 79



Attest: Raymond M. Defossez
Raymond M. Defossez Secretary

COMMERCIAL UNION INSURANCE COMPANY

By Robert J. Spencer
Robert J. Spencer — Assistant Vice-President

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF SUFFOLK SS.

On this 31st day of December 19 79, before me personally came Robert J. Spencer, Assistant Vice-President, and Raymond M. Defossez, Secretary of the COMMERCIAL UNION INSURANCE COMPANY to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they acknowledged the execution of the same, and being by me duly sworn, severally and each for himself depose and sayeth, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the corporate seal of said Company and that the said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Company.



Sandra Wischow
Sandra Wischow — Notary Public
(My Commission expires August 2, 1985)

CERTIFICATE

I, the undersigned, Assistant Secretary of the COMMERCIAL UNION INSURANCE COMPANY, a Massachusetts Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked; and furthermore, that the Resolutions of the Board of Directors set forth in the power of attorney are now in force.

Signed and sealed at the City of Boston. Dated this 31st day of March 19 81.



Andrejs J. Grots
Andrejs J. Grots — Assistant Secretary



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

May 25, 1981

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

Bishop & Blackford Insurance, Ltd.
P. O. Box 2277
Las Cruces, New Mexico 88001

Attention: Gene Bishop

Re: \$10,000 Multiple-Well Low-
Temperature Geothermal Bond
Harry N. Bailey, Principal
Commercial Union Insurance
Company, Surety
Bond No. CE-71353-20

Gentlemen:

The Oil Conservation Division hereby approves
the above-referenced Geothermal bond effective
May 15, 1981.

Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Oil Conservation Division
Carl Ulvog - Santa Fe

Mr. Harry N. Bailey
Rt. 1, Box 1288
Las Cruces, New Mexico 88001

DAN NUTTER

Harry Bailey Las Cruces
plans to drill well
near Radium Springs

Bailey family owns the
property across from
the old hotel and
wants to evaluate it
as geothermal prospect.

Had St. Engr Permit

Well would be anywhere
from 40-50 to 400 deep
Depending on what they find
which McLaughlin is hard
carrying forms to us, also
good!

If you have questions call Mr Bailey
9325
in Cruces: ~~523-1404~~ or 523-6675

Route 1 Box 1288
Las Lunas 88001

RECEIVED

Harry N. Bailey

APR 28 1981

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 8354941 (213) 924-1150

OIL CONSERVATION DIVISION
SANTA FE

4-23-81

Oil Conservation Commission

Box 2088 Santa Fe 87501

attn: Carl Ulboq

Dear Mr. Ulboq:

Dan Nutter advised me that the bands (includ forms) should be sent to your attention. They had not arrived when we mailed the G 101 and G 102 forms earlier which showed the two wells as No 1 and No 2 - Please note that they should have been marked as No. 9 and No 10 as shown on the bands -

If you will just so note I will appreciate it. These are our first 2 temp. observation wells but I do own 8 old wells on various N.M. properties -

CHAIRMAN - H.N. BAILEY & ASSOCIATES - BAY JET INTERNATIONAL KIT PACK COMPANY SCIENTIFIC ENGINEERING - NEW MEXICO RESORT PROPERTIES

Thank you for your cooperation
H.N. Bailey

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

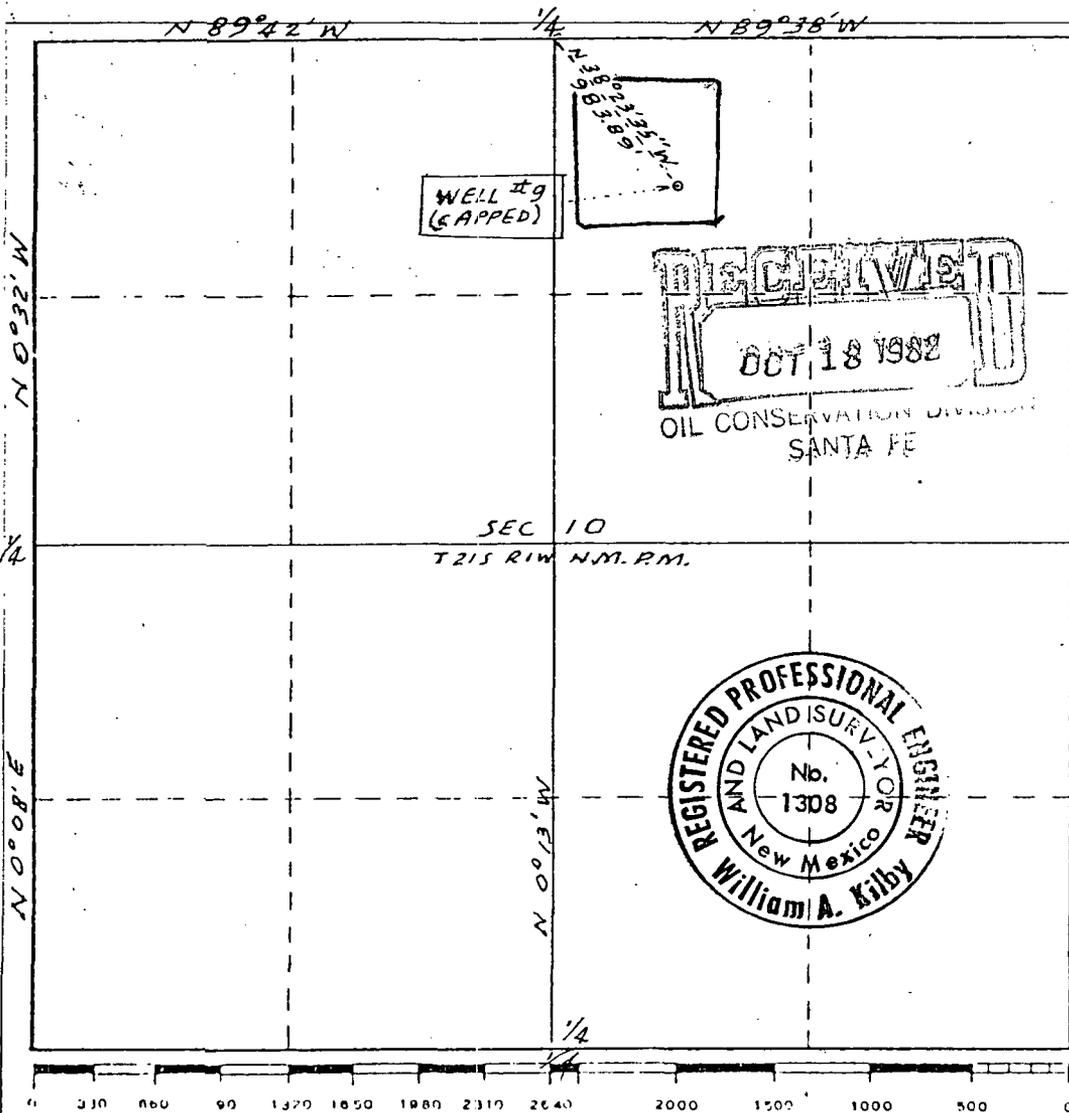
Operator H. N. Bailey		Lease H.N. Bailey			Well No. 9
Unit Letter B	Section 10	Township 21S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 767.22 feet from the North line and 2036.25 feet from the East line Sec. 10					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 10 Acres		

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 Commission.



CERTIFICATION

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

H. N. Bailey

Name **H. N. Bailey**

Position **Owner**

Company **H. N. Bailey**

Date **OCT 10, 1982**

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.

William A. Kilby

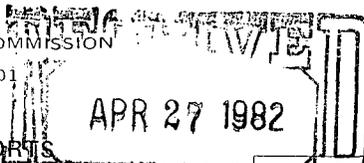
Date Surveyed **Sept. 25, 1982**

Registered Professional Engineer and/or Land Surveyor
P. E. & L. S.

Certificate No. **1308**

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	<input checked="" type="checkbox"/>
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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



SUNDRY NOTICES AND REPORTS
ON
OIL CONSERVATION
GEOTHERMAL RESOURCES WELLS SANTA FE

5. Indicate Type of Lease
State DIVISION Fee

5.a State Lease No.
Private

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
H.N. Bailey & Associates

8. Farm or Lease Name
H.N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
9

4. Location of Well
Unit Letter B; 2036 Feet From The East Line and 767' Feet From
The North Line, Section 10 Township 21S Range 1W NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

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 CHANGE PLANS
PULL OR ALTER CASING
OTHER

SUBSEQUENT REPORT OF:

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

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.

Well # 9 was completed as a production well as follows:

1. Drilling commenced on 4-22-82 and was completed on 4-23-82
2. Drilled 10 inch hole to 8 feet and set 8 feet of 8 5/8 inch surface casing.
3. Drilled 7 7/8 inch hole to 30 feet and set 30 feet of 5 1/4 inch production casing.
4. Cemented production casing to formation from 30 feet to surface; 20 sacks of cement were required.
5. Well was temporarily capped.

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

SIGNED Richard L. Lohse TITLE Consultant DATE 4-25-82

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 10-19-82

CONDITIONS OF APPROVAL, IF ANY:



MEMORANDUM OF MEETING OR CONVERSATION

 Telephone Personal

Time

10 AM

Date

8/8/85

Originating PartyOther PartiesJack Whittier - Energy Inst
NMSU Las Cruces (46-1747)

David Royer - NMOCB

SubjectBailey Geothermal Project - Radium Springs
T215, R01W, Sec 10Discussion

Whittier called to say he is preparing a proposal to NMER&I and wanted to know what forms/permits would be needed to perform a 48-pump test at a well (#9-B or #15-C). After checking with Roy, I told him to submit a WQCC Notice of Intent to discharge form with additional information on how water to be impounded (don't want to go to arrays), depth to GW, length of test, water quality, etc. Also, they need to submit a G-103 (Sundry Notice) to Roy.

Conclusions or Agreements

I told them ^{that} after reviewing the WQCC Notice, we would likely be able to give them permission under WQCC Reg 3-106.B.5 on a temporary discharge. Earliest test would be conducted in January, 1986.

DistributionENV. Bureau Geothermal,
Bailey, file #9-B and 15-C

Signed

David H. Royer



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

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

March 2, 1984

Mr. Harry N. Bailey
25256 Terreno Drive
Mission Viejo, CA 92675

Re: Radium Springs Geothermal
Bailey Wells #9 and #15
T-21S, R-1-W, Don Ana
County, New Mexico

Dear Mr. Bailey:

Your letter to Mr. Pearce of this agency, dated February 23, 1984, has been referred to me for comment and reply. For simplicity, I have attached copies of material from files of the subject wells, which will illustrate and document their official status.

You will note that, pending further filings, the subject wells are temporarily abandoned in non-productible condition, permitted to remain thus until January 19, 1985. If extensions to those permits should be desired, requests for same should be sent to the Director of the Oil Conservation Division. (See Rule G-303-B) No applications have been received for permit to drill disposal wells or for permit to discharge geothermal effluents. Obviously, one or both of these would be required before production could legally begin.

I trust this is the information you requested.

Yours truly,

A handwritten signature in cursive script that reads "Carl Ulvog".

CARL ULVOG
Geothermal Supervisor

CU/dp

cc: R. L. Lohse
W. P. Pearce
Well Files Nos. 9 & 15



Memo

From

ROY JOHNSON
Geologist

To
Radium Springs Farms
Box 20
Radium Springs N.M.
88054

524-1791

Attn: Bruce Fitzgerald

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File		
N. M. B. M.		
U. S. G. S.		
Operator		
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State N/A Fee

5.a State Lease No.
PRIVATE

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
ALEX R. MASSON, INC.

8. Farm or Lease Name
BAILEY

3. Address of Operator
DRAWER F LINWOOD, KS. 66052

9. Well No.
15

4. Location of Well
Unit Letter **B ; S22** Feet From The **NORTH** Line and **2,482** Feet From

10. Field and Pool, or Wildcat
WILDCAT

The **WEST** Line, Section **10** Township **21S** Range **1W** NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3,980 FT.

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

SUBSEQUENT REPORT OF:

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

OTHER **CHANGE OF OPERATOR**

OTHER _____

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.

CHANGE OF OPERATOR FROM HARRY N. BAILEY TO ALEX R. MASSON, INC.

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

SIGNED **Bruce A. Fitzgerald** TITLE **AGENT** DATE **9/22/86**

APPROVED BY **Roy E. Johnson** TITLE **DISTRICT SUPERVISOR** DATE **9/22/86**

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form G-104
Adopted 10-1-74
Revised 10-1-78

CERTIFICATE OF COMPLIANCE
AND AUTHORIZATION TO PRODUCE
GEOTHERMAL RESOURCES

OWNER OR OPERATOR

Name ALEX R. MASSON INC
Address DRAWER F LINWOOD KANSAS 66052

TYPE OF WELL

Geothermal Producer Low-Temperature Thermal Injection/Disposal

REASON FOR FILING

New Well Recompletion
Change in Ownership Designation of Purchaser
Other (Please Explain) PER MR ROY JOHNSON LETTER DATED 11-18-86

DESCRIPTION OF WELL

Lease Name H-N BAILEY Well No. 15 Name of Reservoir Radium SPRINGS
Kind of Lease (Fee, Fed. or State) _____ Lease Number _____

LOCATION

Unit Letter B; NE 1/4 feet from the NE 1/4 line and NW 1/4 feet from the _____ line of
Section 10 Township 21 S Range R1W
County DONA ANA

TYPE OF PRODUCT

Dry _____ Steam and Low Temp. _____
Steam _____ Water _____ Thermal Water X

DESIGNATION OF PURCHASER OF PRODUCT

Name of Purchaser ALEX R. MASSON INC
Address of Purchaser DRAWER F LINWOOD KANSAS 66052
Product Will Be Used For GREEN HOUSE HEATING

CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well, and that the information given above is true and complete to the best of my knowledge and belief.

Signed Bruce A. Fitzgerald Position Operation Mgr. Date 2/22/87
Approved Roy Johnson Position DISTRICT SUPERVISOR Date 2/22/87

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator ALEX. R. MASSON, INC.		Address DRAWER F, LINWOOD, KS. 66052	
Lease Name BAILEY	Well No. 15	Field RADIUM SPRINGS	County DONA ANA
Location Unit Letter C ; Well is Located 522 Feet From The NORTH Line And 2482 Feet From The WEST Line, Section 10 Township 21 S Range 1W NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe					
Surface Casing	8"	25'-30'	12	SURF.	CIRCULATION
Long String	N/A				
Tubing	N/A		Name, Model and Depth of Tubing Packer		

Name of Proposed Injection Formation PAUM PARK FORMATION		Top of Formation 3 FEET	Bottom of Formation 165 FEET
Is Injection Through Tubing, Casing, or Annulus? CASING	Perforations or Open Hole? OPEN HOLE	Proposed Interval(s) of Injection 24' - 165'	
Is This a New Well Drilled For Injection? YES	If Answer is No, For What Purpose was Well Originally Drilled?	Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? NO	

List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each

Depth of Bottom of Deepest Fresh Water Zone in This Area 110'	Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) WATER DISPOSAL
---	---

Anticipated Daily Injection Volume	Minimum 100 GPM	Maximum 400 GPM	Open or Closed Type System CLOSED	Is Injection to be by Gravity or Pressure? GRAVITY	Approx. Pressure (psi) N/A
------------------------------------	---------------------------	---------------------------	---	--	--------------------------------------

Answer Yes or No Whether the Following Waters are Mineralized to such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other General Use— NO	Water to be Injected MODERATE MINERALIZATION	Natural Water in Injection Zone SALT	Are Water Analyses Attached? YES
---	--	--	--

Name and Address of Surface Owner (or Lessee, if State or Federal Land)
ALEX R. MASSON, INC. DRAWER F LINWOOD, KS. 66052

List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well

- HUNT ENERGY CORPORATION**
- THOMAS F. RYAN**
- HARRY N. BAILEY**
- W.W. H. DALY**

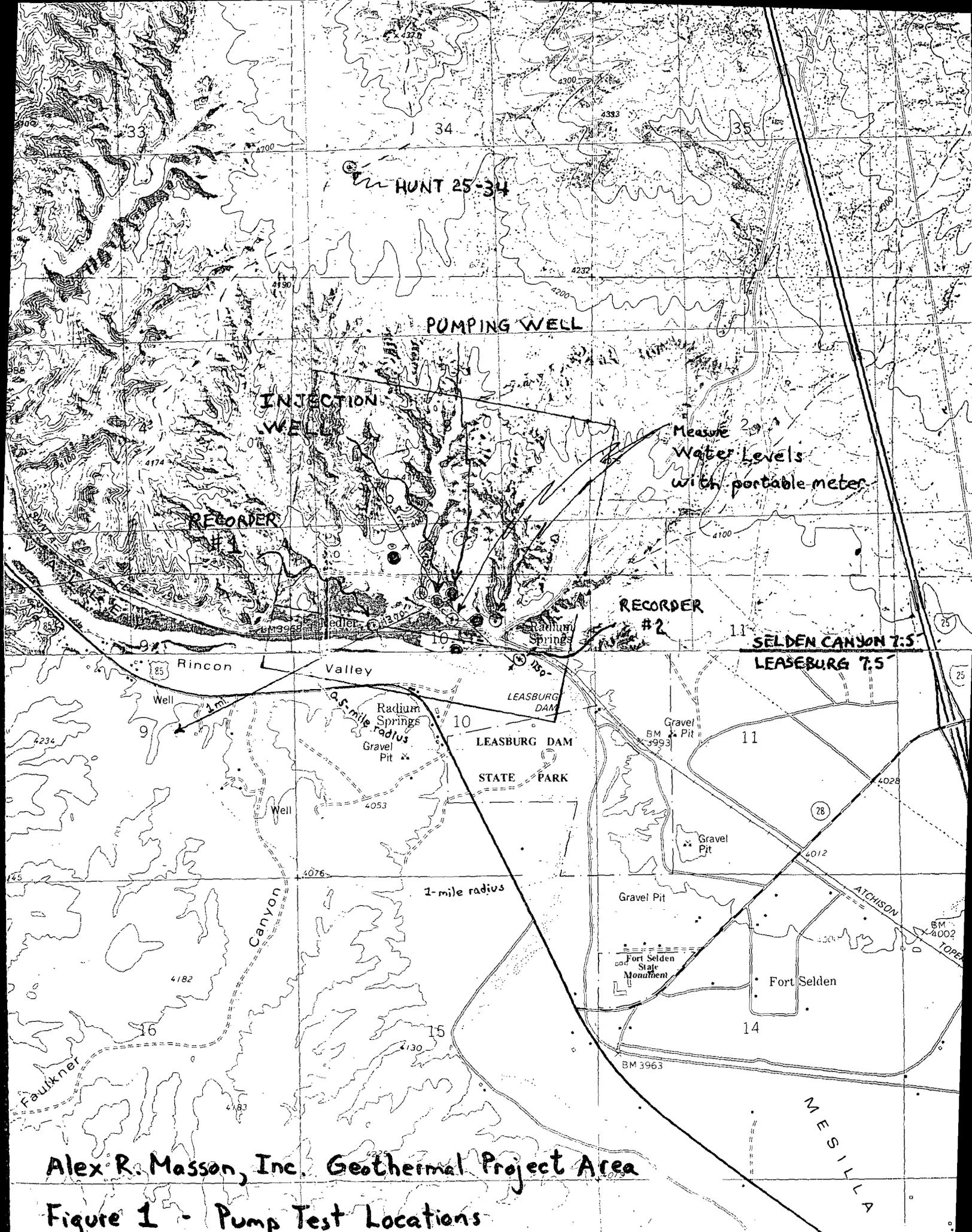
Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---

Are the Following Items Attached to this Application (see Rule 503)	Plat of Area Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Electrical Log Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Diagrammatic Sketch of Well Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
---	---	---	--

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

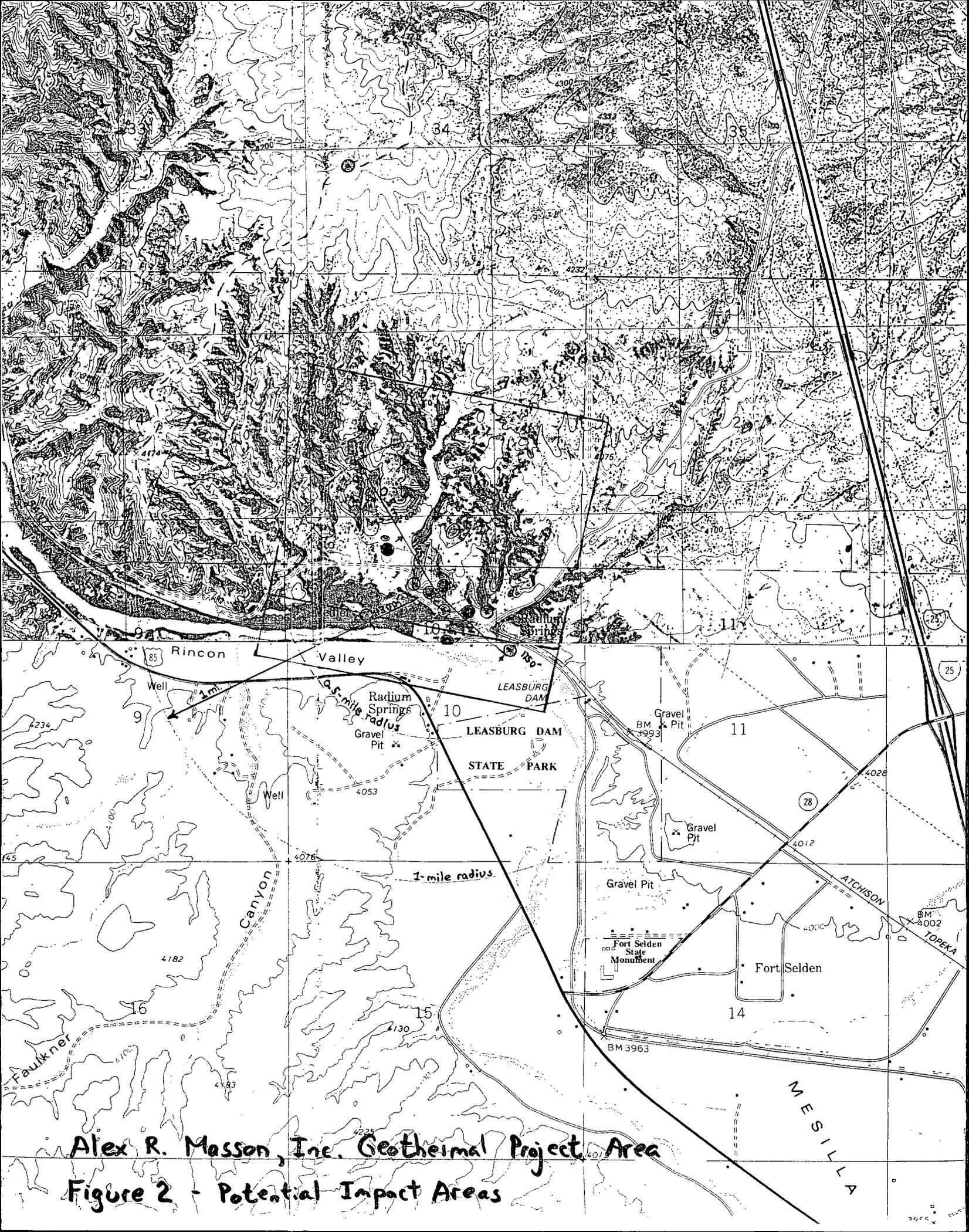
Bruce A. Fitzgerald (Signature) **Designated Agent** (Title) **9/22/66** (Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office. If at the end of the 20-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 503.



Alex. R. Masson, Inc. Geothermal Project Area

Figure 1 - Pump Test Locations



Alex R. Masson, Inc. Geothermal Project Area

Figure 2 - Potential Impact Areas

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U. S. G. S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State N/A Fee

5.a State Lease No.
PRIVATE

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
ALEX R. MASSON, INC.

8. Farm or Lease Name
BAILEY

3. Address of Operator
DRAWER F LINWOOD, KS. 66052

9. Well No.
IS

4. Location of Well
Unit Letter **B ; S22** Feet From The **NORTH** Line and **2,482** Feet From

10. Field and Pool, or Wildcat
WILDCAT

The **WEST** Line, Section **10** Township **21S** Range **1W** NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3,980 FT.

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 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 CHANGE OF OPERATOR <input checked="" 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.
CHANGE OF OPERATOR FROM HARRY N. BAILEY TO ALEX R. MASSON, INC.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNED **Bruce A. Fitzgerald** TITLE **AGENT** DATE **9/22/86**

APPROVED BY **Ray E. Johnson** TITLE **DISTRICT SUPERVISOR** DATE **9/22/86**

CONDITIONS OF APPROVAL, IF ANY:

BAILEY WATER SAMPLES

	GEOHERMAL WELL (MG/L) #15	FRESH WATER WELL (MG/L)
pH	7.15	
Na	1,082.9	
K	168.5	3.5
Ca	139.4	83.8
Mg	12.8	12.8
Cl	1,714.0	71.1
SO4	244.0	
CO3	0	
HCO3	420.0	
SiO2	70.3	23.6
B	.87	0.13
F	5.40	
Fe	<.1	<.05
Mn	.25	0.30
Li	.94	
Al	-	
TDS	3,680	



LarJon

DRILLING
COMPANY

P.O. BOX 925 MESILLA PARK, N.M. 88047

H.N. Bailey

Injection Well # 15

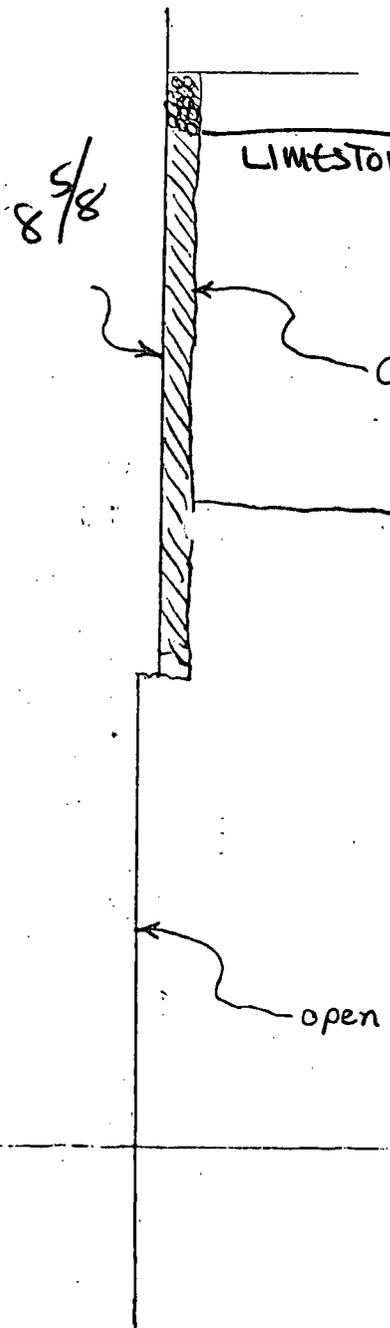
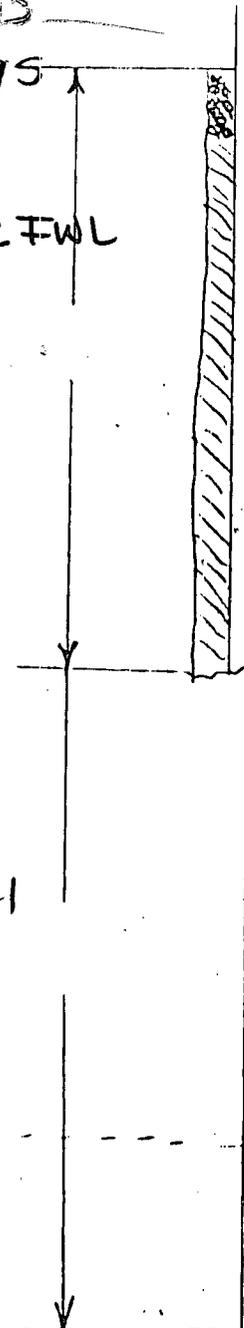
Radium Springs

C-10-215-1W

522 FWL, 2482 FWL

DOÑA ANA COUNTY,
24'

165'



12 1/4" to 24"

12 SX CEMENT

Cement

open 6-6 1/2" Hole

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

June 6, 1986

Alexander Masson, Inc.

Attn; Bruce Fitzgerald

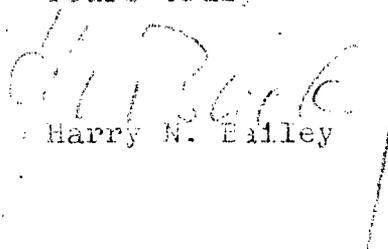
Rt. 1, Box 703

Lamesa N.M. 88044

Dear Bruce:

This will confirm our verbal approval to use Bailey
production well No. 15 to inject into during your
forthcoming 10 day pumpdown test.

Yours truly


Harry N. Bailey



MEMORANDUM OF MEETING OR CONVERSATION

Telephone

Personal

Time

10 AM

Date

8/8/85

Originating Party

Other Parties

Jack Whittier - Energy Inst
NMSU Las Cruces (A6-1747)

David Royer - NMOCD

Subject

Bailey Geothermal Project - Radium Springs
T215, R01W, Sec 10

Discussion

Whittier called to say he is preparing a proposal to NMER&I and wanted to know what forms/permits would be needed to perform a 48- pump test at a well (#9-B or #15-C). After checking with Roy, I told him to submit a WQCC Notice of Intent to discharge form with additional information on how water to be impounded (don't want to go to arrays), depth to GW, length of test, water quality, etc. Also, they need to submit a G-103 (Sundry Notice) to Roy.

Conclusions or Agreements

I told them, ^{that} after reviewing the WQCC Notice, we would likely be able to give them permission under WQCC Reg 3-106.B for a temporary discharge. Earliest test would be conducted in January, 1986.

Distribution

ENV. Bureau Geothermal,
& Bailey, file #9-B and 15-C

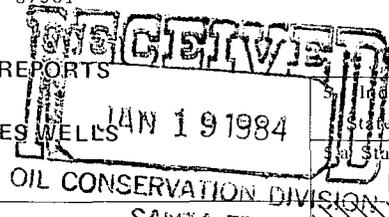
Signed

David H Royer

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

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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
State Lease No. Private

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 checked="" type="checkbox"/> Temp. Observation <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name N/A
2. Name of Operator H. N. Bailey & Associates	8. Farm or Lease Name H. N. Bailey
3. Address of Operator 410 Thorpe Rd., Las Cruces, NM 88005	9. Well No. 15
4. Location of Well Unit Letter <u>B</u> ; <u>522</u> Feet From The <u>North</u> Line and <u>2,482</u> Feet From The <u>West</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GL 3,980 feet	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 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 & ABANDONMENT <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <u>Temporary Abandonment</u> <input checked="" type="checkbox"/></p>
---	--

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 well is temporarily capped by a steel plate which is welded to the production casing (i.e., conductor pipe).

AUTHORIZATION FOR MAINTENANCE IN SHUT-IN OR
TEMPORARY ABANDONMENT STATUS EXPIRES 1-19-85

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

SIGNED Richard L. Lohse TITLE Consultant DATE 1-16-84

APPROVED BY Carl Wlog TITLE DISTRICT SUPERVISOR DATE 1-19-84

CONDITIONS OF APPROVAL, IF ANY:

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

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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. Private
7. Unit Agreement Name N/A
8. Farm or Lease Name H.N. Bailey
9. Well No. 15
10. Field and Pool, or Wildcat Wildcat
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.)

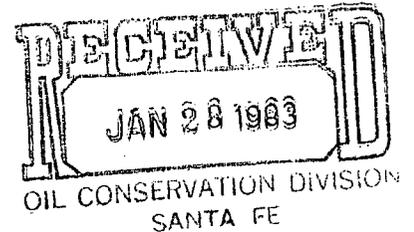
1. Type of well Geothermal Producer <input checked="" type="checkbox"/> Temp. Observation <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>
2. Name of Operator H.N. Bailey and Associates
3. Address of Operator Route 1, Box 1288, Las Cruces, NM 88001
4. Location of Well Unit Letter <u>B</u> , <u>522</u> Feet From The <u>North</u> Line and <u>2,482</u> Feet From The <u>West</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) GL 3,980 ft.

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 checked="" type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input 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 & ABANDONMENT <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>
--	--

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.

Drilling has been temporarily stopped at 165 ft. Drilling should begin again within 45 days.



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

SIGNED Richard L. Lohr TITLE Geothermal Consultant DATE 1-26-83

APPROVED BY Carl Ullrog TITLE DISTRICT SUPERVISOR DATE 1/28/83

CONDITIONS OF APPROVAL, IF ANY:

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

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Operator	
Land Office	

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. Private
7. Unit Agreement Name N/A
8. Farm or Lease Name H.N. Bailey
9. Well No. 15
10. Field and Pool, or Wildcat Wildcat
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 checked="" type="checkbox"/> Temp. Observation <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>
2. Name of Operator H.N. Bailey and Associates
3. Address of Operator Route 1, Box 1288, Las Cruces, NM 88001
4. Location of Well Well Log C 522 Feet From The North Line and 2,482 Feet From The West Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.) GL 3,980 ft.

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

NOTICE OF INTENTION TO:

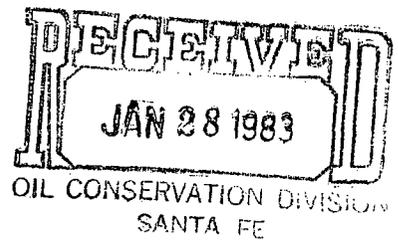
PERFORM REMEDIAL WORK PLUG AND ABANDON
 TEMPORARILY ABANDON
 PULL OR ALTER CASING CHANGE PLANS
 OTHER

SUBSEQUENT REPORT OF:

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

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.

Well #15 was spudded at 3:00 p.m. on 1-12-83 and was drilled to a depth of 165 ft. Siliceous limestone was encountered at 3 ft. A 12 $\frac{1}{4}$ inch hole was drilled to 26 ft. and 8-5/8-inch casing was set to 24 ft. The casing was cemented to the surface with 12 sacks of cement. A 6-1/8 inch hole was drilled from 26 ft. to 165 ft. and was in siliceous limestone most of the way with a few lenses of gravel and sand.



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

SIGNED Richard L. Lohse TITLE Geothermal Consultant DATE 1-26-83

APPROVED BY Carl W. Long TITLE DISTRICT SUPERVISOR DATE 1/28/83

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
NOV 30 1982

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

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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.
Private

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
N/A

8. Farm or Lease Name
H.N. Bailey

2. Name of Operator
H.N. Bailey and Associates

9. Well No.
15

3. Address of Operator
Route 1, Box 1288, Las Cruces, NM 88001

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well UNIT LETTER BC LOCATED 522 FEET FROM THE North LINE
AND 2482 FEET FROM THE West LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

12. County
Dona Ana

21. Elevations (Show whether DF, RT, etc.) GL 3980 ft.	21A. Kind & Status Plug. Bond CR7135320	19. Proposed Depth 500 ft.	19A. Formation Lime-Siliceous stone	20. Rotary or C.T. Rotary
21B. Drilling Contractor Larjon		22. Approx. Date Work will start December 1982		

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4 inch	8-5/8 inch	0.188 inch	at least 10 ft.	Pressure	circulated
		wall	into solid bed-	cemented	to surface
			rock (min.40ft.)	to surface	

A flange and B.O.P. will be welded to the surface casing. The mud return line below the B.O.P. will be fitted with a shut-off valve. The B.O.P. will be constructed using rubber packers which can be tightened down around the drill pipe to seal off the thermal fluids. If the need arises, weighted mud will be used to shut-in the fluids. A 12 to 24 hour pump test will be performed on the well. The production zone will be completed as an 8 inch uncased bore hole.

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

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 2/28/83
UNLESS DRILLING UNDERWAY.

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 Richard L. Lohse Title Geothermal Consultant Date 11/24/82

(This space for State Use)

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 12/1/82

CONDITIONS OF APPROVAL, IF ANY:

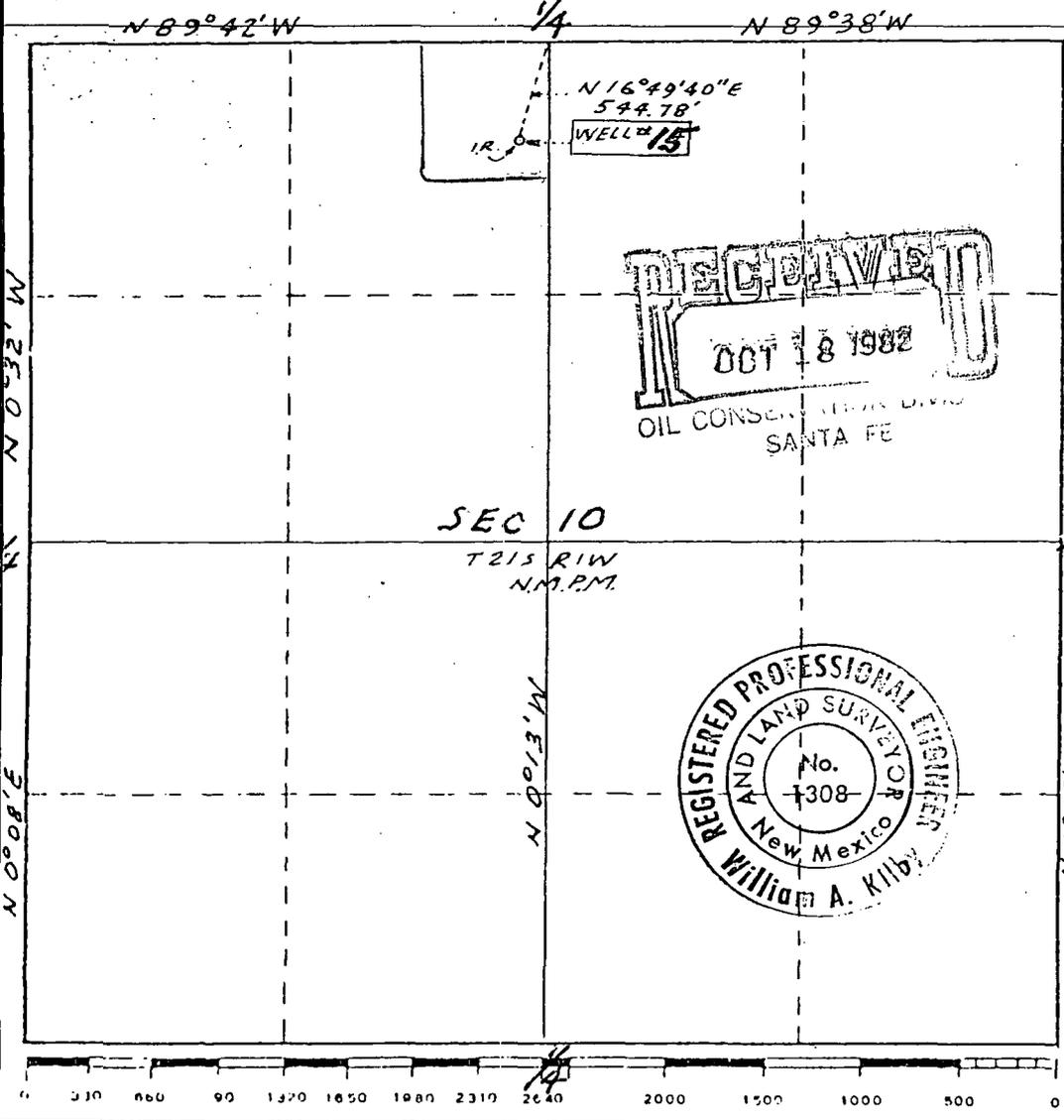
GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator H.N. Bailey		Lease H. N. Bailey		Well No. 15
Unit Letter C	Section 10	Township 21 S	Range 1 W	County Dona Ana
Actual Footage Location of Well: 522.27 feet from the North line and 2482.14 feet from the West line Sec. 10				
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 40 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

H.N. Bailey

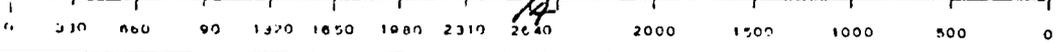
Name	H. N. Bailey
Position	Owner
Company	H. N. Bailey
Date	OCT 2, 1982

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.

William A. Kilby

Date Surveyed	Sept 25, 1982
Registered Professional Engineer and/or Land Surveyor	P.E. & L.S.

Certificate No. **1308**



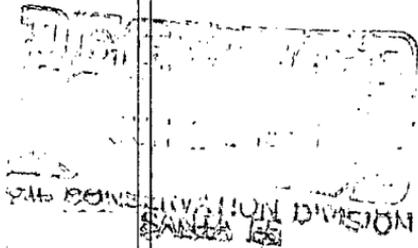
Roy,

PLEASE FIND ENCLOSED LETTER

FROM HARRY BAILEY, GIVING PERMISSION
FOR PUMP TEST.

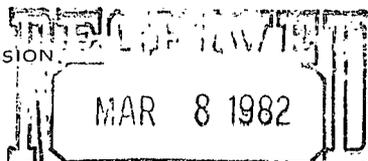
THANK,

Bruce Fitzgerald



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M. B. M.		
S. G. S.		
Operator	1	
Land Office		

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



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION INDICATE NATURE OF LEASE
SANTA FE State Fee

5.a State Lease No.
Private

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 checked="" type="checkbox"/> Temp. Observation <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name <i>N/A</i>
2. Name of Operator <i>H. N. Bailey & Associates</i>	8. Farm or Lease Name <i>H. N. Bailey</i>
3. Address of Operator <i>Route 1, Box 1288, Las Cruces, New Mexico, 88001</i>	9. Well No. <i>15</i>
4. Location of Well Unit Letter <i>C</i> ; <i>275</i> Feet From The <i>N</i> Line and <i>2380</i> Feet From The <i>W</i> Line, Section <i>9</i> Township <i>21S</i> Range <i>1W</i> NMPM.	10. Field and Pool, or Wildcat <i>Wildcat</i>
15. Elevation (Show whether DF, RT, GR, etc.)	12. County <i>Doña Ana</i>

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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 well will not be drilled.

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

SIGNED *Richard L. Lohse* TITLE *Consultant* DATE *2-27-82*

APPROVED BY *Carl Ullvog* TITLE *SENIOR PETROLEUM GEOLOGIST* DATE *3-8-82*

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JUN 16 1981
OIL CONSERVATION DIVISION
SANTA FE

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

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N.M.	1
U.S.G.S.	1
Operator	1
Lead Office	BLM 1

**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 Temp Observation
 Low-Temp Thermal Injection/Disposal

7. Unit Agreement Name

2. Name of Operator
H.N. BAILEY

8. Farm or Lease Name
H.N. BAILEY

3. Address of Operator
RT. 1 Box 1288 Las Cruces 88001

9. Well No.
15

4. Location of Well UNIT LETTER **C** LOCATED **275** FEET FROM THE **N** LINE
AND **2380** FEET FROM THE **W** LINE OF SEC. **9** TWP. **21 S** RGE. **1 W** NMPM

10. Field and Pool, or Wildcat
Wildcat

County
Dona Ana

19. Proposed Depth 500	19A. Formation Limestone	20. Rotary or C.T. ROTARY
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor LARSON
		22. Approx. Date Work will start 5-11-81

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	4"				

If this hole does not indicate satisfactory temperature and flow it will be filled and abandoned.

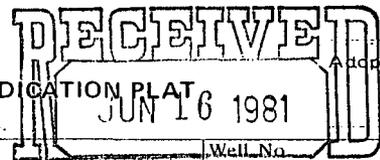
APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 9-22-81
UNLESS DRILLING UNDERWAY

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 H.N. Bailey Title owner operator Date 5-5-81
(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 6/24/81



P. O. BOX 2088 SANTA FE 87501

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

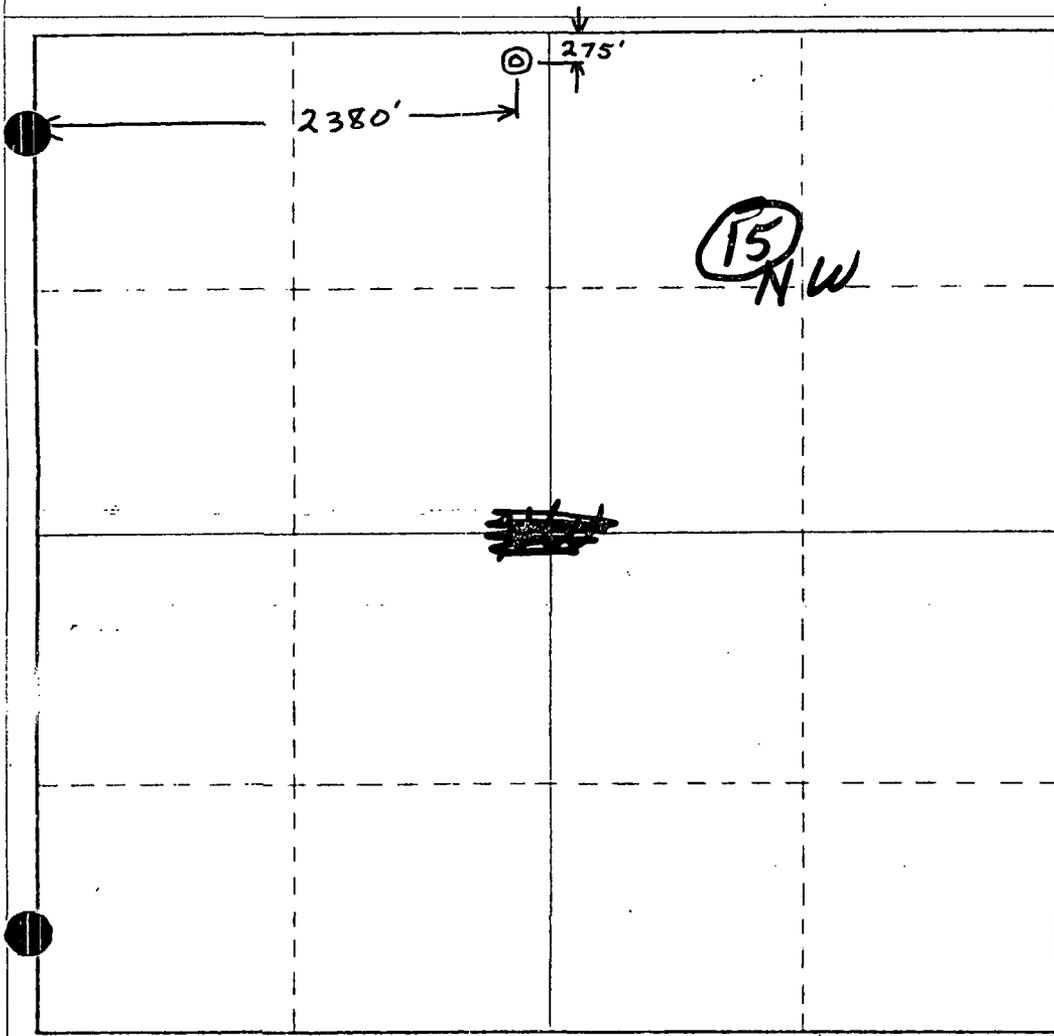
Operator: H. N. BAILEY		Lease: Bailey		Well No. 15	
Tract Letter: C	Section: 9	Township: 21 S	Range: 1 W	County: Dona Ana	
Actual Footage Location of Well: 275 feet from the N line and 2380 feet from the W line					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: _____ Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
well site is on property owned by H.N. BAILEY
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
and carries all mineral rights.
- 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.



CERTIFICATION

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

Name: **H.N. Bailey**
 Position: **owner operator**
 Company: _____

Date: **5-3-81**

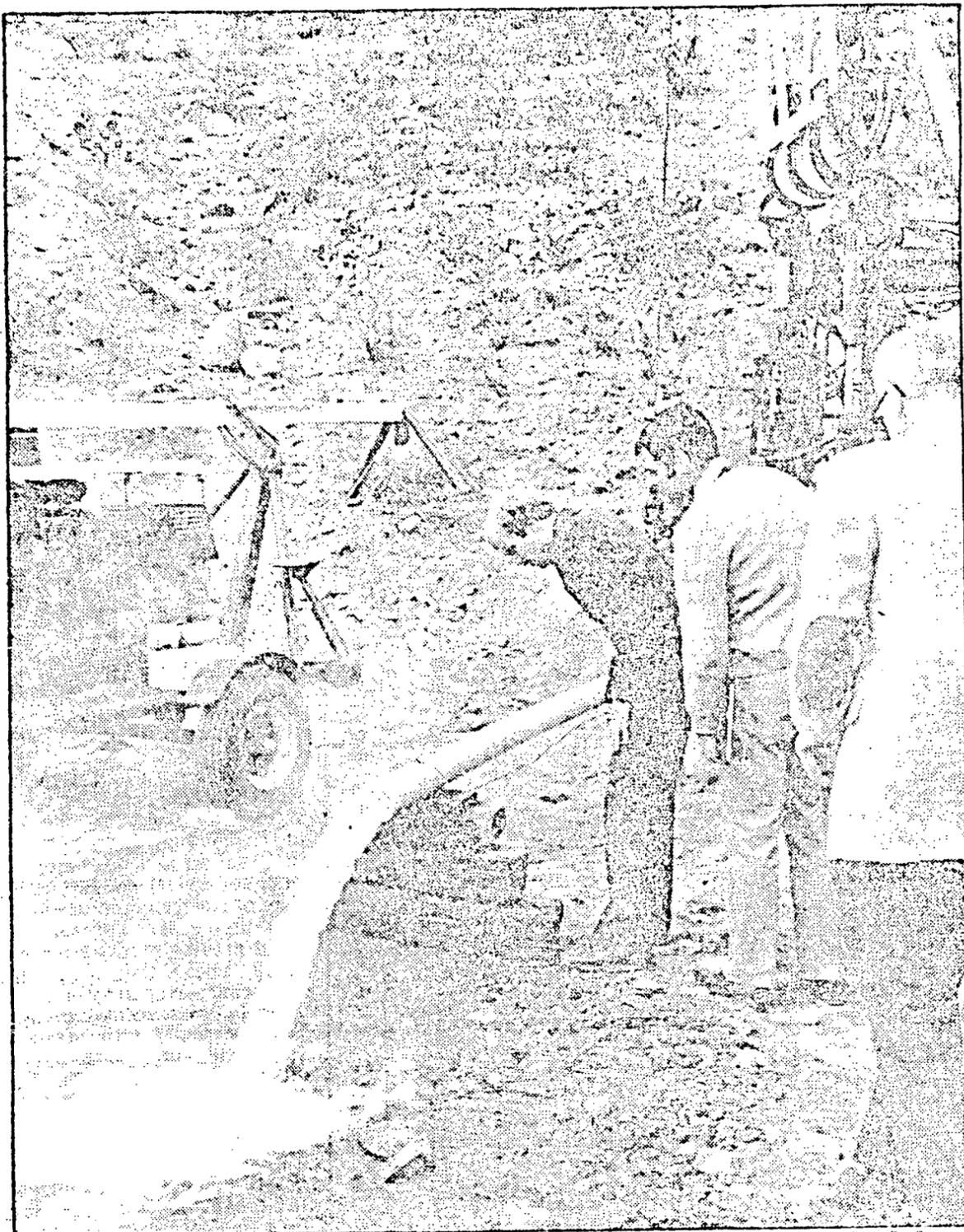
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

Certificate No. _____





— Times photo by Doug DesGeorges

SYMPOSIUM PARTICIPANTS CHECK WELL AT RADIUM SPRINGS
 ... Participants toured geothermal sources in the northern Dona Ana County area

Radium Springs claims geothermal energy source

By Doug DesGeorges
 Times staff writer

LAS CRUCES — Those who thought Dona Ana County's usable geothermal reserves lie only under Las Cruces' east mesa could have learned differently Tuesday, as participants at a geothermal energy symposium toured the reserves around Radium Springs.

Participants had heard Roger Bowers, a geothermal geologist with the Hunt Energy Corp., say Monday his company had found water as hot as 230 degrees Fahrenheit in the Radium Springs area. Bowers said the water was found at a depth of about 9,000 feet.

But it isn't necessary to drill that deep to find hot water, Harold Bailey said Tuesday.

Bailey's company claims to have found 158-degree water only 26 feet below the surface. Bailey said his well can deliver 325 gallons of water a minute.

Bailey's company, H.N. Bailey & Associates, has about 100 acres both near the hot water and flat enough to be developed. Symposium sponsors hope to entice greenhouse operators to move to the Las Cruces area to take advantage

of the cheaper geothermal energy.

Bailey said his land is ideal for greenhouses because it has hot water reserves on one side and fresh water on the other.

Bowers said Monday that hitting hot water at shallow depths is made possible by natural barriers that force the heated water toward the surface. Bowers said the water is heated by the Rio Grande Rift, a crack in the Earth in which water is heated by the Earth's core.

A flyer put out by Bailey's company said the 100 acres is for sale and will be prepared to order. The brochure also says the water is as close as 100 feet to a developable site.

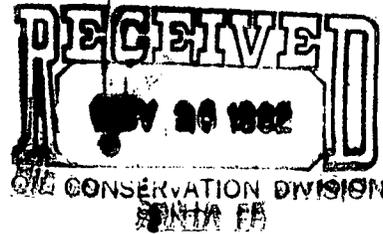
Bowers said his 9,000-foot well can deliver water at 217 degrees Fahrenheit at the surface.

The symposium, sponsored by the New Mexico Energy Institute, ended Tuesday, Larry Iceerman, the institute's director, said.

The institute wants to assure potential greenhouse operators geothermal energy is not the only advantage held by the Las Cruces area. Speakers presented at the symposium promised to give any industry interested in the area all the help it needs in moving.

1962 Embassy, Apt. D
Las Cruces, New Mexico 88005
November 24, 1982

Carl Ulvog
Senior Petroleum Geologist
Oil Conservation Commission
State of New Mexico
P.O. Box 2088
Land Office Building
Santa Fe, NM 87501



Dear Carl:

Please find enclosed the original and four copies of Form G-101 for one low-temperature thermal well (Well #15). I have also enclosed one copy of Form G-102 for this well and #9. It is my understanding that you have already received the originals and the required number of copies for the new well #15 as well as the old thermal gradient hole #9, which has since been changed to a low-temperature thermal well. With regards to these forms, the following changes should be made:

1. Form 102 for well #9
 - Unit letter "B" should read Unit letter "C"
 - Dedicated Acreage should read "40" Acres and not "10" Acres
2. Form 102 for well #15
 - Dedicated Acreage should read "40" Acres and not "10" Acres

Also enclosed is a copy of a "rider" to the low-temperature geothermal well bond for Harry Bailey. It is also my understanding that this "rider" has already been forwarded to your offices and that the bonding issue has been satisfactorily resolved and that no other problems remain that might prohibit you from approving the Form G-101 to drill a low-temperature thermal well (#15) on the H.N. Bailey land at Radium Springs, NM. If this is not the case, please let me know.

Sincerely,

Richard L. Lohse

Richard L. Lohse
Geothermal Consultant

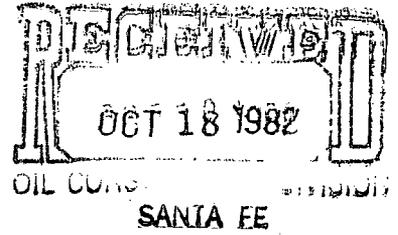
Will be back in Calif Sunday for a while -

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

10-73-82

Oil Conservation Dist
Santa Fe, N.M.
attn: Carl Albo



Dear Carl:

Just got back to N.M.
& signed the enclosed on
wells 9 and 15 - Sorry
to be so long getting the
Severeyon on the stick - Hope
this is O.K. now on well
No 9 -

Wick Lohse is out of
town but he will be
processing the other paper work
on well # 15 -

(over)

Perhaps you could check
this out - but I thought
we had No 15 approved
by OCD -

When Dick gets back
he will work with Larson
to get the balance of the
paper work processed to
you and is authorized
to represent me in his
liaison functions between
OCD and Larson

Dullery -

Sorry to have missed
you on my last winter
trip to Santa Fe -

Best regards
Harry

NEW MEXICO OIL CONSERVATION COMMISSION
 P. O. BOX 2088 SANTA FE 87501
GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

Form G-102
 Adopted 10/1/74

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

Operator H.N. Bailey		Lease H. N. Bailey		Well No. 15
Unit Letter C	Section 10	Township 21 S	Range 1 W	County Dona Ana

Actual Footage Location of Well:
522.27 feet from the **North** line and **2482.14** feet from the **West** line **Sec. 10**

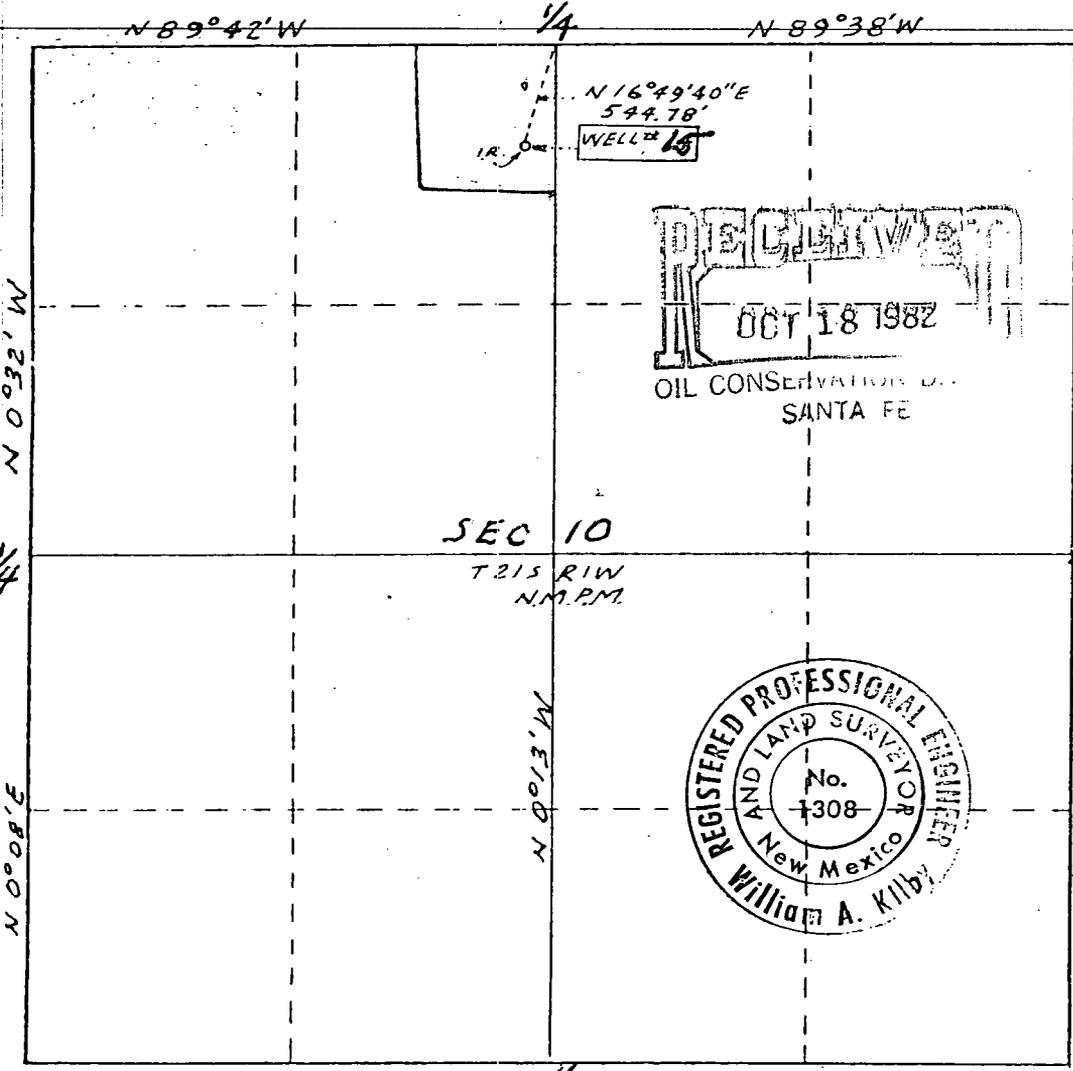
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 40 Acres
--------------------	---------------------	------	---------------------------------------

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

H. N. Bailey

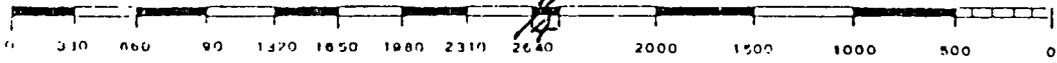
Name	H. N. Bailey
Position	Owner
Company	H. N. Bailey
Date	OCT 10 1982

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.

William P. Kilby

Date Surveyed	Sept 25, 1982
Registered Professional Engineer and/or Land Surveyor	P.E. & L.S.

Certificate No. **1308**



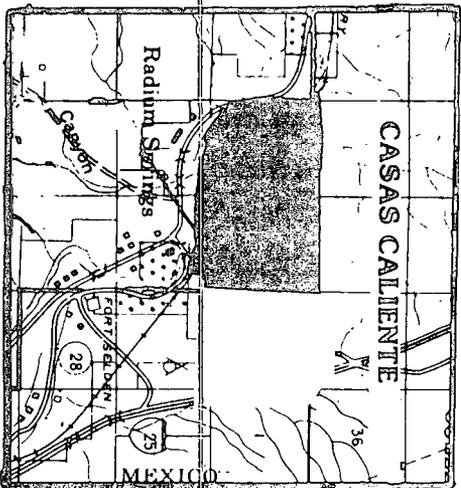
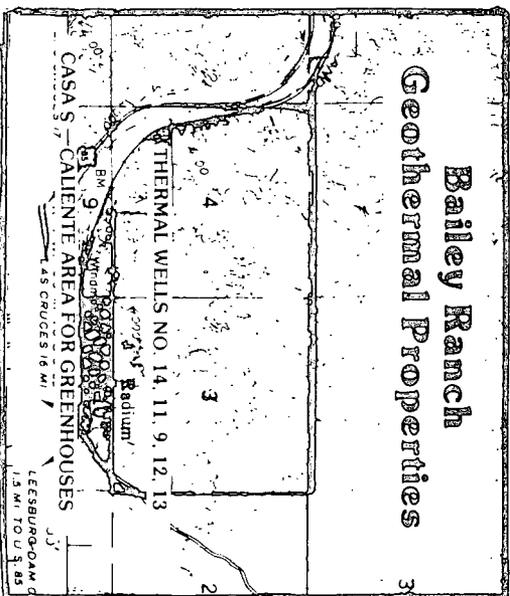
CASAS CALIENTE

Approximately 100 acre area of raw land has been reserved for greenhouse operations, abutting the proven hot water wells on one side and the abundant fresh water resources on the other.

Sites are offered for the first time and will be prepared to the buyer or lessee's specification.

This property is located 15 miles north of Las Cruces and extends along the Santa Fe's main line and siding, which parallels the Rio Grande river at this location.

We believe this to be the most efficient location in the state for users of low temperature geothermal energy based on an analysis of costs of delivering BTU's to the site. The Bailey thermal wells have temperatures of 150f to 170f at depths of 20 to 120 feet, and as close as 100 yards to the site.

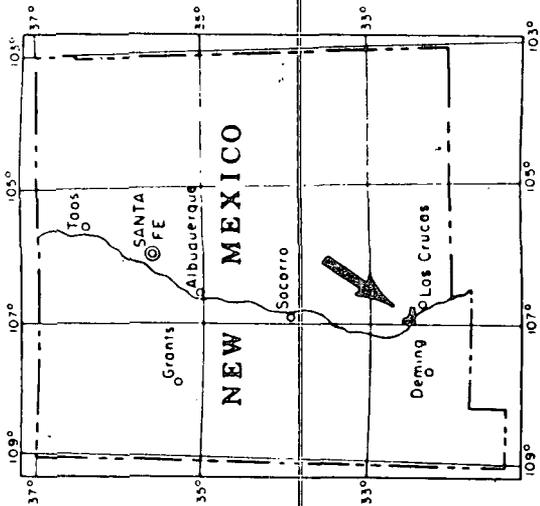


GEO THERMAL ENERGY

This emerging heat transfer technology is especially well suited for various agricultural applications such as greenhouses and food drying. The dollar savings become especially significant as water temperatures exceed 150f and as well depths and distance from the water sources to the point of disposal do not impose unacceptable hardware and pumping costs on the system.

Fortunately Dona Ana County is rapidly becoming known not only for its good business climate and labor market but also as a geothermal "hot bed", due largely to the involvement of NMSU in this field. Geothermal Scientists at the University's Energy Institute have been very helpful in making technical information available to industries investigating this exciting new field.

Radium Springs Geothermal Industrial Site



RADIUM SPRINGS

Originally named by H. H. Bailey, who served as its first postmaster and who sponsored the old Radium Springs health resort, these remarkable hot springs were recognized by the Indians and early settlers for their curative values, both for drinking and bathing. Several hundred acres which include the principal shallow hot waters have remained in the Bailey family for over 60 years. However, the full extent and value of this geothermal resource for commercial application was not known until proven by the exploratory programs recently conducted by H. N. Bailey.

For Additional Information
please write to the following:

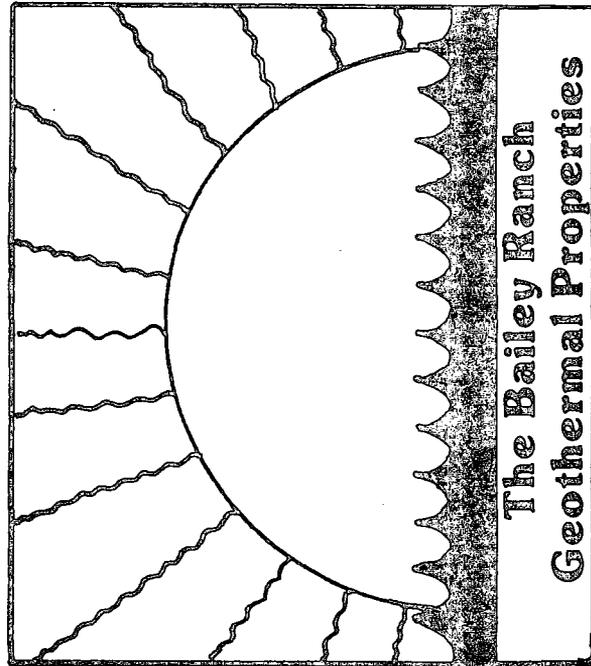
H. N. Bailey & Associates
410 Thorpe Road
Las Cruces, New Mexico 88005

Telephone: (505) 526-3220
TWX 910-983-0560

OR

H. N. Bailey & Associates
1112 East Washington Avenue
Santa Ana, CA 92701

Telephone: (714) 835-1911
TWX 910-595-1588
Cable Address: BAILAIR



Las Cruces, New Mexico

IN THE DISTRICT COURT
THIRD JUDICIAL DISTRICT
DONA ANA COUNTY
STATE OF NEW MEXICO

OIL CONSERVATION DIVISION OF THE
ENERGY AND MINERALS DEPARTMENT
OF THE STATE OF NEW MEXICO,

Plaintiff,

No. _____

vs.

HARRY N. BAILEY,

Defendant.

COMPLAINT FOR CIVIL PENALTY

I

COMES NOW Plaintiff, Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico, and for its first claim for relief in this Complaint for Civil Penalty states:

1. That Plaintiff Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico, is a duly organized agency of the State of New Mexico.
2. That Defendant Harry N. Bailey is a resident of the State of California.
3. That Defendant is presently conducting business in the State of New Mexico. That such business, at least in part,

involves the exploration for and development of geothermal resources within the State of New Mexico.

4. That the Geothermal Resources Conservation Act, 71-5-1 et seq. NMSA, 1978, authorizes and requires Plaintiff to regulate the exploration for, development of, and production of geothermal resources within the State of New Mexico. In order to accomplish this required regulation, Plaintiff is authorized to adopt all necessary rules and regulations.

5. That Defendant in furtherance of its geothermal exploration and development activities within the State of New Mexico caused a well, known as the H. N. Bailey Well No. 15 to be drilled. This well is located in Section 10, Township 21 South, Range 3 West, NMPM, Dona Ana County, New Mexico.

6. That in compliance with the Rules and Regulations of the New Mexico Oil Conservation Division, Defendant caused to be submitted and Plaintiff approved Form G-101, Application for Permit to Drill, Deepen or Plug Back --- Geothermal Resources Well. That this Form G-101 was approved on December 1, 1982, and indicated that the proposed depth of the subject well was 500 feet to be drilled by Rotary Drilling Tool.

7. That pursuant to the Rules and Regulations of Plaintiff Oil Conservation Division, on or about January 28, 1983, Defendant caused to be filed a Form G-103, Sundry Notices and Reports on Geothermal Resources Well. This report indicated

that drilling of the subject well had stopped temporarily at 165 feet and was expected to begin again within 45 days.

8. That pursuant to its authority to adopt all necessary rules and regulations Plaintiff has, after notice and hearing, adopted Rule 203 which states in part:

"Form G-103 shall be filed in DUPLICATE by the operator and approval obtained from the Division prior to: (1 affecting a change of plans from those previously approved on Form G-101 or Form G-103.

9. That Plaintiff believes that subsequent to the approval of the temporary abandonment of this well on Form G-103 that Defendant Bailey has caused the subject well to be drilled to a greater depth. Plaintiff has not, as of the date of filing this Complaint, been informed of any further operations at this well subsequent to the approval of temporary abandonment.

10. That Defendant has failed to comply with the provisions of Rule 203 in that Defendant has failed to secure approval of the reinstatement of drilling operations at the subject well.

11. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 203.

12. That Defendant knowingly and willfully violated Rule 203 by failing to file the required report and receive the required approval prior to recommencing drilling operations.

13. That Sections 70-2-28 and 70-2-31 NMSA, 1978 Compilation, as amended, authorized the Division to institute

legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations or Orders.

14. That this action is brought in Dona Ana County, New Mexico, the site of these violations, as authorized by Section 70-2-31 NMSA, 1978 Compilation.

WHEREFORE, Plaintiff prays:

1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 for each day during which drilling operations were conducted without proper approval which amount is to be paid into the State Treasury as provided by Article XII, Section 4 of the Constitution of the State of New Mexico, plus costs.

2. For such other and further relief as the Court deems just and proper.

II

Plaintiff for its second claim of relief in this Complaint for Civil Penalty, states:

1. That Plaintiff incorporates Paragraphs 1 through 5 of the first claim for relief stated in this Complaint for Civil Penalty in this its second claim for relief and realleges the material contained in those paragraphs as if fully set out.

2. Pursuant to its statutory duties, Plaintiff has, after and notice and hearing, adopted Rule 117 of the Rules and

Regulations of the New Mexico Oil Conservation Division. That rule states in part:

"The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any geothermal drilling, producing, transporting, treating, disposal, or utilization facility in the State of New Mexico by the person operating or controlling such facility.

...

Notification to the Division of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

...

"(3) 'Minor Breaks, Spills or Leaks. Notification of breaks, spills, or leaks of wellheads, pipelines, or tanks, or drilling pits, sludge pits, or storage pits or ponds, the result of which 25 barrels or more but less than 50 barrels of liquids containing hydrocarbons or hydrocarbon wastes, salt water, strong caustics or strong acids, or other deleterious substances are lost or in which noxious gases escape, but in which there is no danger to human health or of substantial damage to property shall be 'subsequent notice' described below.

...

SUBSEQUENT NOTICE - 'subsequent notification' shall be a complete written report of the incident and shall be submitted to the Santa Fe office of the Division within 10 days after discovery of the incident."

3. That on or about March 1, 1983, Defendant caused a valve to be opened at the subject well which caused the intentional release upon the surface of the ground of a substantial quantity of subsurface waters.

4. That such discharge was done without any prior approval of any regulatory agency and notification as required by the

Rules and Regulations of the New Mexico Oil Conservation Division relating to geothermal activities was not given.

5. That Defendant has failed to comply with the provisions of Rule 117(3) in that Defendant has failed to file the subsequent notification required by that rule.

6. That the purpose of Rule 117(3) is to prevent the unregulated, indiscriminate and intentional discharge upon the surface of the ground of harmful substances.

7. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 117(3).

8. That Defendant knowingly and willfully violated Rule 117(3) by failing to file the required report.

9. That Sections 70-2-28 and 70-2-31 NMSA, 1978 Compilation, as amended, authorized the Division to institute legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations or Orders. That this action is brought in Dona Ana County, New Mexico, the site of these violations as authorized by Section 70-2-31 NMSA, 1978 Compilation.

WHEREFORE, Plaintiff prays:

1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 per day for each day during which unauthorized discharges have continued unreported, which amount is to be paid into the State Treasury as provided by Article

XII, Section 4 of the Constitution of the State of New Mexico, plus costs.

2. For such other and further relief as the Court deems just and proper.

III

Plaintiff for its third claim of relief in this Complaint for Civil Penalty, states:

1. That Plaintiff incorporates Paragraphs 1 through 5 of the first claim of relief stated in this Complaint for Civil Penalty in this its third claim for relief and realleges the material contained in those paragraphs as if fully set out.

2. That pursuant to its authority, Plaintiff has after proper notice and hearing adopted Rule 108(5) of the Geothermal Resources Rules and Regulations of the Oil Conservation Division.

3. That rule states in part:

"(5) Casing and Cement Tests. All casing strings shall be tested after cementing and before commencing any other operations on the well. Form G-103 shall be filed for each casing string reporting the grade and weight of pipe used. In the case of combination strings utilizing pipe of varied grades or weights, the footage of each grade and weight used shall be reported. The results of the casing test, including actual pressure held on the pipe and the pressure drop observed, shall also be reported on the Form G-103. See Rule 203C(4).

(a) Casing strings in wells drilled with rotary tools shall be pressure-tested. Minimum casing test pressure shall be approximately one-third of the manufacturer's rated internal yield pressure except that

the test pressure shall not be less than 600 pounds per square inch and need not be greater than 1500 pounds per square inch. In cases where combination strings are involved, the above test pressures shall apply to the lowest pressure-rated casing used. Test pressures shall be applied for a period of 30 minutes. If a drop of more than ten percent of the test pressure should occur, the casing or cement job shall be considered defective and corrective measures shall be taken before commencing any further operations on the well.

(b) Casing strings in wells drilled with cable tools may be tested as outlined in Rule 5(a) above, or by bailing the well dry, in which case the well must remain satisfactorily dry for a period of at least one hour before commencing any further operations on the well.

4. That Defendant Harry N. Bailey has caused the subject well to be deepened and Plaintiff believes that Defendant Harry N. Bailey has caused casing to be set in the subject well.

5. That Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5) in that Form G-103 has not been filed for each casing string reporting the grade and weight of pipe used.

6. That Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5) in that he has failed to test, or has failed to report the test of casing set in the subject well pursuant to the provisions of Rule 108(5)(a). That the purpose of Rule 108(5) is to assure the protection of underground strata from contamination by material from other isolated strata.

7. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 108(5).

8. That Defendant knowingly and willfully violated Rule 108(5) by failing to test and/or file as required.

9. That Sections 70-2-28 and 70-2-31 NMSA, 1978 Compilation, as amended, authorized the Division to institute legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations and Orders.

10. That this action is brought in Dona Ana County, New Mexico, the site of these violations as authorized by Section 70-2-31 NMSA, 1978.

WHEREFORE, Plaintiff prays:

1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 for each day during which Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5), which amount is to be paid into the State Treasury as provided by Article XII, Section 4 of the Constitution of the State of New Mexico, plus costs.

2. For such other and further relief as the Court deems just and proper.

PAUL G. BARDACKE
ATTORNEY GENERAL

BY 

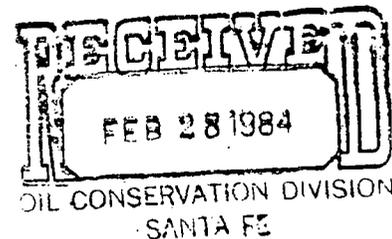
W. PERRY PEARCE
Assistant Attorney General
Oil Conservation Division of
the Energy and Minerals Dept.
of the State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

February 23, 1984

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



Attention: W. Perry Pearce,
General Counsel

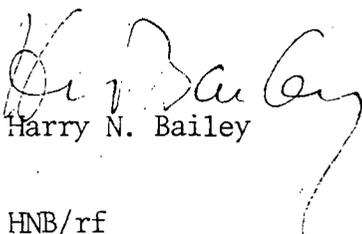
Dear Mr. Pearce:

In reply to your February 15th letter, I too have had correspondence from Hunt Energy Corp. and I understand their concern. Inclosed is a copy of my reply to Mr. Bowers letter.

While we did put Hunt on notice of our intention to develop an injection well we soon realized that we would need more study and preparation before submitting the form G112 and a better basis for projecting the volume of usage. For instance our program with Mr. Beall of Vashon, Washington, was aborted when he found he could not cope with Dona Ana County use permits procedures but, could get this years rose crop going immediately at Animas in Hidalgo County. So we are now considering other plans for land usage which in turn may effect the need for geothermal usage. Frankly events so far do not encourage our making more investments in this geothermal resource at this time.

With respect to our two production wells according to Dick Lohse, who handles our paperwork with OCD, we have filed notice of temporary abandonment on them. As far as I know we have nothing pending with OCD nor further requirements for a geothermal bond. I would appreciate it if OCD would verify this with me.

Sincerely,


Harry N. Bailey

HNB/rf

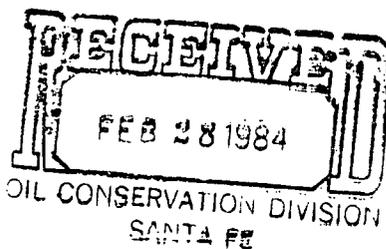
Harry N. Bailey

25256 Terreno Cr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1971 (213) 924-1150

February 10, 1984

Hunt Energy Corporation
1800 Thanksgiving Tower
Dallas, Texas 75201

Attention: Mr. Roger L. Bowers,
Geothermal Operations



Dear Mr. Bowers:

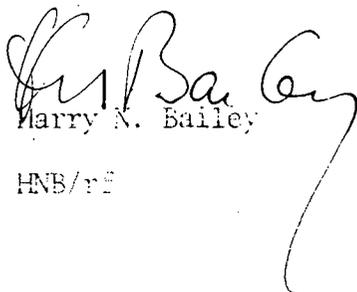
Thank you for your letter of January 9, 1984, received this week. The questions and comments listed indicate the quality of expertise which we will have to apply before proceeding further with this development.

Rest assured we have no desire to embark on any course that will unnecessarily cool down a proven hot water production zone or effect the quality of existing producing fresh water resources which are equally valuable to us.

As also mentioned before, we have a community of interest with Hunt in the orderly development and application of these resources at Radium Springs. Good communication as demonstrated by your letter can only assist toward that end.

As for Section 5 mentioned in your last paragraph "...section 5 is federal land.", we do own 1/4 of this section and as you know are considering this as a site for a reinjection well. We, of course, are aware that the BLM has mineral rights to the entire section which they have leased to Hunt.

Sincerely,


Harry N. Bailey

HNB/rf

Carl,

Please get
Hohse and Bailey
(letter) on
whether or not
we expect any
more paperwork.

Thanks

↑

P.S.

Please keep this in
your file.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

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

March 2, 1984

Mr. Harry N. Bailey
25256 Terreno Drive
Mission Viejo, CA 92675

Re: Radium Springs Geothermal
Bailey Wells #9 and #15
T-21S, R-1-W, Don Ana
County, New Mexico

Dear Mr. Bailey:

Your letter to Mr. Pearce of this agency, dated February 23, 1984, has been referred to me for comment and reply. For simplicity, I have attached copies of material from files of the subject wells, which will illustrate and document their official status.

You will note that, pending further filings, the subject wells are temporarily abandoned in non-producible condition, permitted to remain thus until January 19, 1985. If extensions to those permits should be desired, requests for same should be sent to the Director of the Oil Conservation Division. (See Rule G-303-B) No applications have been received for permit to drill disposal wells or for permit to discharge geothermal effluents. Obviously, one or both of these would be required before production could legally begin.

I trust this is the information you requested.

Yours truly,

CARL ULVOG
Geothermal Supervisor

CU/dp

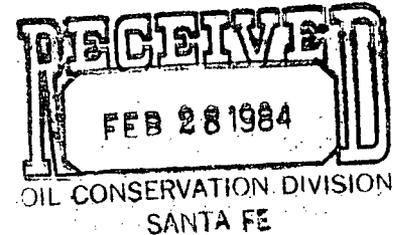
cc: R. L. Lohse
W. P. Pearce
Well Files Nos. 9 & 15

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

February 23, 1984

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



Attention: W. Perry Pearce,
General Counsel

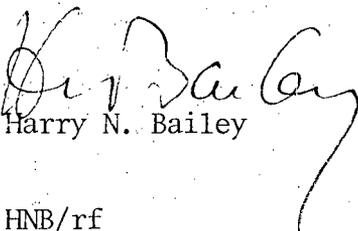
Dear Mr. Pearce:

In reply to your February 15th letter, I too have had correspondence from Hunt Energy Corp. and I understand their concern. Inclosed is a copy of my reply to Mr. Bowers letter.

While we did put Hunt on notice of our intention to develop an injection well we soon realized that we would need more study and preparation before submitting the form G112 and a better basis for projecting the volume of usage. For instance our program with Mr. Beall of Vashon, Washington, was aborted when he found he could not cope with Dona Ana County use permits procedures but, could get this years rose crop going immediately at Animas in Hidalgo County. So we are now considering other plans for land usage which in turn may effect the need for geothermal usage. Frankly events so far do not encourage our making more investments in this geothermal resource at this time.

With respect to our two production wells according to Dick Lohse, who handles our paperwork with OCD, we have filed notice of temporary abandonment on them. As far as I know we have nothing pending with OCD nor further requirements for a geothermal bond. I would appreciate it if OCD would verify this with me.

Sincerely,


Harry N. Bailey

HNB/rf

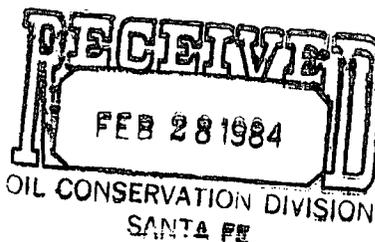
Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

February 10, 1984

Hunt Energy Corporation
2800 Thanksgiving Tower
Dallas, Texas 75201

Attention: Mr. Roger L. Bowers,
Geothermal Operations



Dear Mr. Bowers:

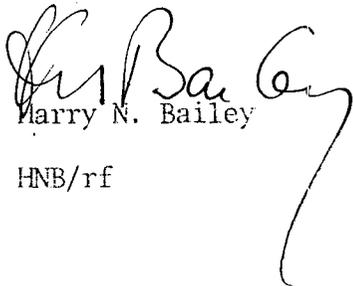
Thank you for your letter of January 9, 1984, received this week. The questions and comments listed indicate the quality of expertise which we will have to apply before proceeding further with this development.

Rest assured we have no desire to embark on any course that will unnecessarily cool down a proven hot water production zone or effect the quality of existing producing fresh water resources which are equally valuable to us.

As also mentioned before, we have a community of interest with Hunt in the orderly development and application of these resources at Radium Springs. Good communication as demonstrated by your letter can only assist toward that end.

As for Section 3 mentioned in your last paragraph "...section 3 is federal land.", we do own 1/4 of this section and as you know are considering this as a site for a reinjection well. We, of course, are aware that the BLM has mineral rights to the entire section which they have leased to Hunt.

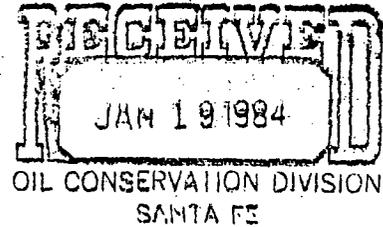
Sincerely,


Harry N. Bailey

HNB/rf

1962 Embassy, Apt. D
Las Cruces, New Mexico 88005
January 16, 1984

Mr. Carl Ulvog, Senior Geologist
Oil Conservation Division
Energy and Minerals Department
P.O. Box 2088
State Land Office Building
Santa Fe, New Mexico 87501



Dear Carl:

I hope you and your family had a happy and safe Holiday Season. As we discussed in our telephone conversation just prior to the holiday break, I am submitting the originals along with the appropriate number of copies of the Form G-103 for the wells labeled H.N. Bailey #9 and #15. The forms are filed as a "subsequent report of" Temporary Abandonment and state the manner in which the wells were capped.

Harry Bailey would like Temporary Abandonment permits for both of these wells for the following reason: Negotiations to utilize the geothermal fluids are currently being held between Mr. Bailey and several potential geothermal users; however, the talks are not advanced enough at this time to allow for the proper design and construction of the production well-heads in such a manner as to obtain the optimum efficiency of the wells.

*

It is understood that before any work can be performed on the wells, they will have to be taken off the Temporary Abandonment status. Also, before production can occur, the wells will have to be equipped with the proper well-head equipment and the proper discharge permits will have to be obtained. Currently, both wells have steel plates welded to the top of the production casings.

Sincerely,

Richard L. Lohse

Richard L. Lohse
Geothermal Consultant

cc: Harry Bailey

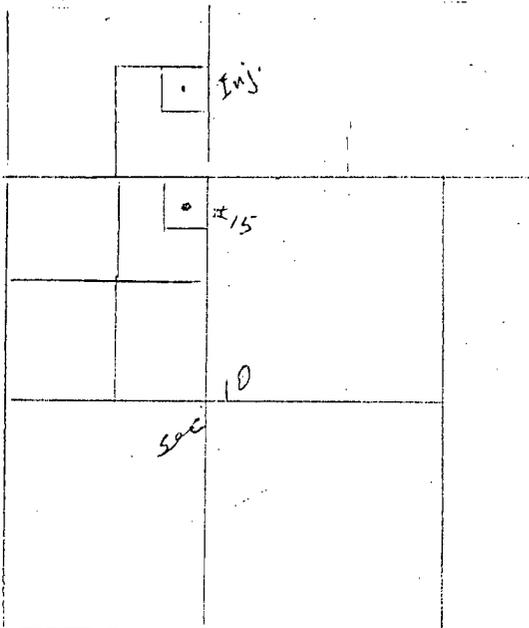
* When Lohse called about T.A. permits, I read him the "riot act." Wells are okay as T.A. to 1-19-85. CU

Carl

Attached is a copy of the legal notice on Harry Bailey's well. Please note:

a. from the legal description of the production well (which does not quite match his #15) he intends to produce over 600 gpm on a 6-month (year basis) or 300+ gpm on a steady state. I can't believe the actual well will produce that much.

b. His planned disposal well is on Howe Energy lease.



NOTICE is hereby given that on December 2, 1983 H. N. Bailey, 410 Thorpe Road, Las Cruces, New Mexico 88005 filed application number LRG-4489 with the STATE ENGINEER for permit to divert up to 500 acre-feet per annum of shallow geothermal water within the Lower Rio Grande Underground Water Basin from an existing well 160 feet in depth with 6-inch casing located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 10, Township 21 South, Range 1 West, N.M.P.M., for industrial and commercial geothermal application. After heat is extracted, water will be transmitted to an injection well to be drilled in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 3, Township 21 South, Range 1 West, N.M.P.M. for return to the geothermal reservoir.

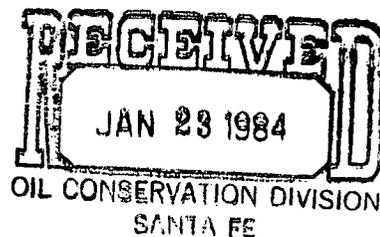
Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will impair or be detrimental to their water rights, may protest in writing the proposal set forth in said application. The protest shall set forth all protestant's reasons why the application should not be approved and must be filed, in triplicate, with S.E. Reynolds, State Engineer, District III Suboffice, P.O. Box 16518; Las Cruces, New Mexico 88004 within ten (10) days after the date of the last publication of this Notice.

Pub. No. 83-1609
Publish: December 27, 1983;
January 3, 10, 1984.

Beard Computer

HUNT ENERGY CORPORATION
2800 THANKSGIVING TOWER
DALLAS, TEXAS 75201

January 9, 1984



Mr. Harry N. Bailey
410 Thorpe Road
Las Cruces, New Mexico 88005

Dear Mr. Bailey:

I have looked over your application (G-112) to permit a geothermal injection well at Radium Springs. Several questions and comments have come to mind and I have listed them below. Some may be critical to your operation and others are just food for thought. They refer to specific entries in the same order as on the form.

1. Location: If the location has been surveyed in and I have plotted correctly, it is on Federal Geothermal Lease NM-34793 issued to Norma K. Hunt. Since I do not have the location of your production well, I assume it is on your land near the river in section 10. That means you will have to pump the water uphill to the disposal well. This may lead to other implications which I will discuss later.

2. Proposed Injection Formation: You list the Santa Fe Group and volcanic rocks. Published geologic maps indicate that the well would penetrate the Camp Rice Formation of the Santa Fe Group and would possibly go into the older Palm Park Formation at depth. However, the depths are unknown until the area is drilled, and you have not indicated a proposed depth for your well. Also, I am sure that there will be concern that you reinject into the same formation that you are producing from.

3. Top and Bottom of Formation: I believe the Form requires depths rather than descriptive rock type, and again refers to the point above in item 2.

4. Perforations or Open Hole?: Open hole is fine, but you may have problems keeping the hole open unless you go deep enough to get into harder rock than the Camp Rice Formation.

5. Proposed Interval of Injection: Refers to the depth interval of your injection zone.

6. Depth of Bottom of Deepest Fresh Water: You list 200 feet. I would suspect this may be much deeper. Has this been verified in any wells?

7. Anticipated Daily Volume: Minimum = 2000, Maximum = 8000. I assume these amounts are gallons.

8. Mineral Content of Water: I hope you have had the water chemically analyzed. This is for your protection as well as others and probably will be required by the State agencies. As you know, there are certain elements and dissolved gases which, if present, could cause severe problems with pumps, pipes, etc. A good analysis could save you money in a long run.

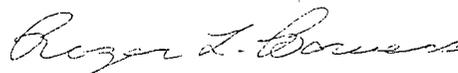
9. Gravity or Pressure Injection?: As I mentioned in item 1, you will have to pump the water uphill to the well. Depending on well conditions such as depth to static water table, depth to injection formation, and permeability of the formation, you may have to do more pumping than you thought.

Now for some general thoughts on the project. Although we have talked many times about developing the Radium Springs area and both you and the Hunts want to see successful development of the resource, I am sure that the Hunts will want to protect their lease rights. This includes the potential of cooling the resource by injecting cooler water into a possible production zone, or simply, into the wrong zone so as to lessen the long-term quality of the resource. Neither of us would want that to happen.

Hunt would probably have no objection to your reinjection well being on our lease if we could be assured, by sufficient scientific data, that it would not eventually harm the system. Can you be sure that your reinjection well at the proposed location would not eventually cool down your production zone? Has the location been selected on geological and hydrological data, or merely by convenience?

I offer these thoughts and questions in a constructive way for your consideration. I am sure the State will probably require more information from you, and I also remind you that the Bureau of Land Management will require permits because all of section 3 is federal land. I am glad to hear that you may have a customer for your hot water and I hope the venture will be successful.

Yours truly,



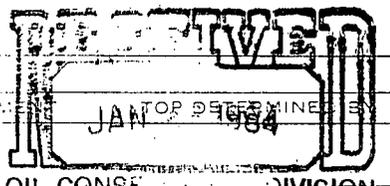
Roger L. Bowers
Geothermal Operations

INFO. COPY FOR HUNT ENERGY

P. O. Box 2038, Santa Fe 87501

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator HUNT ENERGY		Address 110 Idaho St., Las Cruces, NM 88005	
Lease Name	Well No. 16	Field Tadous Springs	County Doña Ana
Location Unit Letter _____; Well is Located <u>1200'</u> Feet From The <u>South</u> Line And <u>1210'</u> Feet From The <u>East</u> Line, Section <u>3</u> Township <u>21S</u> Range <u>1W</u> NMPM.			



CASING AND TUBING DATA				
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT
Conductor Pipe	4 1/2"			
Surface Casing	12"	20'	10	10'
Production String				
Tubing				

Name of Proposed Injection Formation: Lower Permian Top of Formation: 1214' Bottom of Formation: _____

Is Injection Through Tubing, Casing, or Annulus? Annulus Perforations or Open Hole? _____ Proposed Interval(s) of Injection: _____

Is this a New Well Drilled For Injection? Yes If Answer is No, For What Purpose was Well Originally Drilled? _____ Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? _____

List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each _____

Depth of Bottom of Deepest Fresh Water Zone in This Area: Below 200 Feet Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) Water Disposal

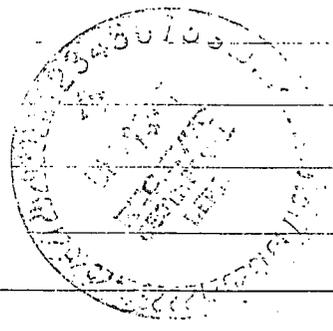
Anticipated Daily Injection Volume	Minimum	Maximum	Open or Closed Type System	Is Injection to be by Gravity or Pressure?	Approx. Pressure (psi)
	0.000	0.000		Gravity	

Answer Yes or No Whether the Following Waters are Mineralized Water to be Injected (Such a Degree as to be Unfit for Domestic, Stock, Irrigation, _____) Natural Water in This Area? _____ Are Water Analyses Attached? _____

Address of Surface Owner (or Lessee, if other than Fee Simple Land): _____

List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well:

Hunt Energy Co. Dallas, Texas



Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well? Yes No

Are the Following Items Attached to this Application (see Rule 503)

Plat of Area	Electrical Log	Diagrammatic Sketch of Well
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

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

[Signature] OPERATOR 11-31-83 (Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 20 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 20-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 503.

CLH
NM-25557

WELL
25-34

NaBH
NM-25526

NKH
CHEVRON
31729

NKH
NM-34793

NKH/CHEV
NM-38442

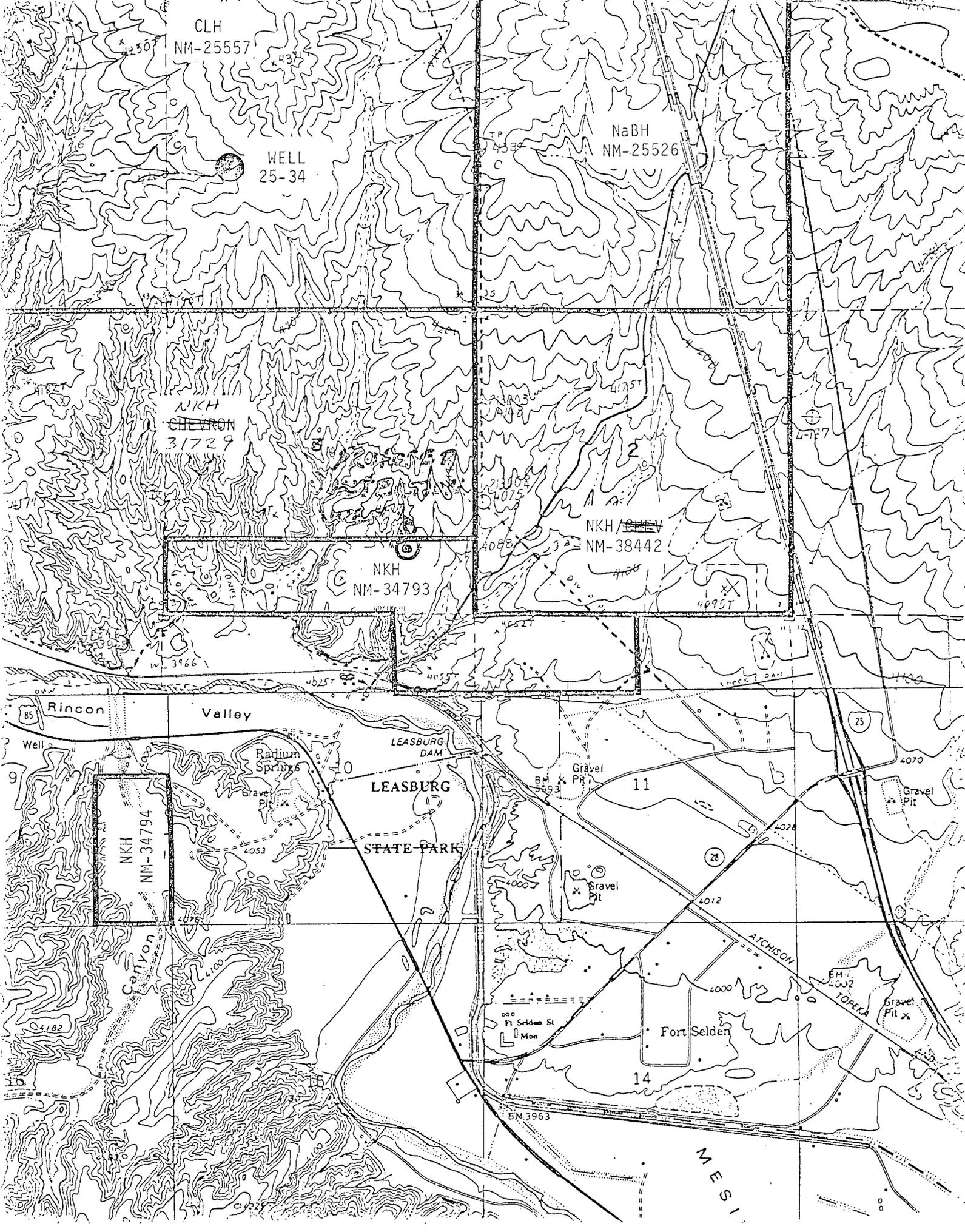
NKH
NM-34794

LEASBURG

STATE PARK

Fort Selden

MESI





STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

January 30, 1984

Hunt Energy Corporation
Geothermal Operations
Attn: Roger L. Bowers
2800 Thanksgiving Tower
Dallas, Texas 75201

Re: Application LRG-4489

Dear Mr. Bowers:

On January 25, 1984 this office received your letter protesting the above-numbered application. The last date of publication was January 10, 1984 and, as provided in the legal notice, the last date to file a protest was January 20, 1984. Therefore, your protest is not timely.

In order to be a valid protestant to a water right application, the party must be the owner of a water right. This office has no record of Hunt Energy Corporation owning water rights in the Lower Rio Grande Underground Water Basin.

Please contact this office if further discussion would be helpful.

Sincerely,

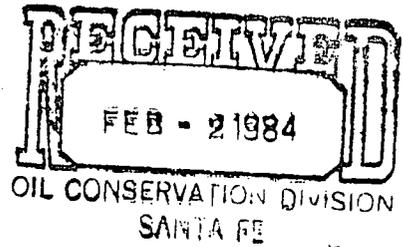
S. E. Reynolds
State Engineer

By: *Harold Saunders*
Harold Saunders
Water Rights Division

HS*kl

cc: J. B. Nixon
H. N. Bailey

HUNT ENERGY CORPORATION
2800 THANKSGIVING
DALLAS, TEXAS 7



January 16, 1984

Mr. S. E. Reynolds, State Engineer
c/o District III Suboffice
P. O. Box 16518
Las Cruces, New Mexico 88001

Dear Mr. Reynolds:

This letter is written to protest application number LRG-4489
filed by Mr. H. N. Bailey.

As described and filed, the application proposes to drill a
geothermal injection well at a location in Section 3, Township 21
South, Range 1 West, NMPM, Dona Ana County, and to use that well
for injection of up to 500 acre feet of shallow geothermal water
per annum.

The proposed well location is on land subject to Federal
Geothermal Lease NM-34793 which was issued to Norma K. Hunt on
December 1, 1978. The remainder of Section 3 is covered by
Federal Geothermal Lease NM-31729 which was issued to Chevron
Resources and was assigned to Norma K. Hunt in 1983. Neither
Hunt nor any of its agents has granted any permission for the
actions described in the application by Mr. Bailey.

Hunt has expended more than 7 million dollars and eight years of
technical effort to define the geothermal parameters of our
leases. We do not want to have this investment placed in
possible jeopardy by an action in which large volumes of cool
water, with unknown mineral content, are injected into a possible
production zone thus reducing the commercial potential of the
geothermal resource.

Moreover, if the application is approved, Hunt reserves the right
to pursue all necessary legal recourse to assure that the actions
requested by Mr. H. N. Bailey are supported by standard
acceptable hydrological and geological data, and that such
actions will in no way or manner result in changes to the quality
of the geothermal resource located on lands leased to Mrs. Hunt.
We formally request that application LRG-4489 not be approved.

Yours truly,

Roger L. Bowers

Roger L. Bowers
Geothermal Operations

D.J.L.

cc: Mr. H. N. Bailey

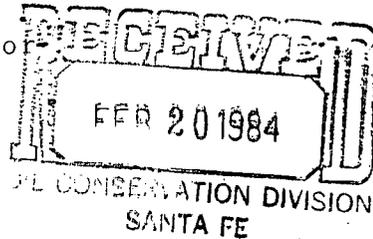
HUNT ENERGY CORPORATION

2800 THANKSGIVING TOWER

DALLAS, TEXAS 75201

February 9, 1984

Mr. Joe D. Ramey, Division Director
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501



Dear Mr. Ramey:

Hunt Energy Corporation requests your assistance to clarify New Mexico state regulations and policy concerning geothermal exploration, development, and lease rights. The following summarizes events of the past few weeks and leads to our specific questions.

On December 2, 1983, Mr. H. N. Bailey filed application LRG-4489 with the State Engineer's Office for permission to: 1) produce geothermal water from a well in T21S, R1W, section 10 (Radium Springs, Dona Ana County), 2) drill a well in section 3 (federal land) of the same township; and 3) use the new well for re-injection of the cooled water. Hunt, as the geothermal lessee for all of section 3, protested the disposal well (enclosure I) to protect our lease from Mr. Bailey's proposed actions. The State Engineer rejected our protest primarily because Hunt does not own any water rights in the Lower Rio Grande Underground Water Basin (enclosure II). Since we were protesting only the planned disposal well being on our lease, there appears to be no reasonable basis to reject that protest simply because we do not own water rights.

Prior to Mr. Bailey's filing an application with the State Engineer, he sent to Hunt a copy of OCD Form G-112 (enclosure III) for the reinjection well to be drilled in section 3. I responded directly to Mr. Bailey with several questions about the incomplete form and stated that Hunt would oppose his actions on our lease. Has Mr. Bailey filed this Form G-112 with your office, and if so, does Hunt have any right of protest?

It is obvious from the reply of the State Engineer's Office that a geothermal lessee has no lease or resource protection rights from that office unless the lessee also owns water rights. However, it is our understanding that, under present New Mexico laws, geothermal rights and consumptive water rights are separate and distinctly different rights, and that geothermal fluids may be produced by a geothermal lessee without water rights as long as all produced fluids are reinjected into the same producing formation.

Mr. Joe D. Ramey
February 9, 1984
Page 2

If this is true, and if the Oil Conservation Division has jurisdiction over all geothermal activity in the State, how can a geothermal well be drilled with only the approval of the State Engineer's Office? What rights and protections, if any, are afforded to a geothermal lessee by the Oil Conservation Division?

Your response to our questions is critical to our development plans at Radium Springs, and your assistance and clarification will be greatly appreciated. Hunt hopes that these problems can be resolved administratively and that legal recourse, by any party, will not be necessary. Should you have any questions or need additional information concerning this matter, please contact me at the above address or call me at 214/880-8420.

Very truly yours,



Roger L. Bowers
Geothermal Operations

RLB/ct

encl...

HUNT ENERGY CORPORATION

2800 THANKSGIVING TOWER
DALLAS, TEXAS 75201

January 16, 1984

Mr. S. E. Reynolds, State Engineer
c/o District III Suboffice
P. O. Box 16518
Las Cruces, New Mexico 88001

Dear Mr. Reynolds:

This letter is written to protest application number LRG-4489 filed by Mr. H. N. Bailey.

As described and filed, the application proposes to drill a geothermal injection well at a location in Section 3, Township 21 South, Range 1 West, NMPM, Dona Ana County, and to use that well for injection of up to 500 acre feet of shallow geothermal water per annum.

The proposed well location is on land subject to Federal Geothermal Lease NM-34793 which was issued to Norma K. Hunt on December 1, 1978. The remainder of Section 3 is covered by Federal Geothermal Lease NM-31729 which was issued to Chevron Resources and was assigned to Norma K. Hunt in 1983. Neither Hunt nor any of its agents has granted any permission for the actions described in the application by Mr. Bailey.

Hunt has expended more than 7 million dollars and eight years of technical effort to define the geothermal parameters of our leases. We do not want to have this investment placed in possible jeopardy by an action in which large volumes of cool water, with unknown mineral content, are injected into a possible production zone thus reducing the commercial potential of the geothermal resource.

Moreover, if the application is approved, Hunt reserves the right to pursue all necessary legal recourse to assure that the actions requested by Mr. H. N. Bailey are supported by standard acceptable hydrological and geological data, and that such actions will in no way or manner result in changes to the quality of the geothermal resource located on lands leased to Mrs. Hunt. We formally request that application LRG-4489 not be approved.

Yours truly,

Roger L. Bowers

Roger L. Bowers
Geothermal Operations

D.J.L.

cc: Mr. H. N. Bailey



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

BATAAN MEMORIAL BUILDING
STATE CAPITOL
SANTA FE, NEW MEXICO 87503

January 30, 1984

Hunt Energy Corporation
Geothermal Operations
Attn: Roger L. Bowers
2800 Thanksgiving Tower
Dallas, Texas 75201

Re: Application LRG-4489

Dear Mr. Bowers:

On January 25, 1984 this office received your letter protesting the above-numbered application. The last date of publication was January 10, 1984 and, as provided in the legal notice, the last date to file a protest was January 20, 1984. Therefore, your protest is not timely.

In order to be a valid protestant to a water right application, the party must be the owner of a water right. This office has no record of Hunt Energy Corporation owning water rights in the Lower Rio Grande Underground Water Basin.

Please contact this office if further discussion would be helpful.

Sincerely,

S. E. Reynolds
State Engineer

By: *Harold Saunders*
Harold Saunders
Water Rights Division

HS*k1

cc: J. B. Nixon
H. N. Bailey

HUNT ENERGY

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator H. W. WILSON		Address 210 Monroe St., Las Alamos, NM 88005	
Lease Name	Well No. 14	Field Yellow Springs	County Doña Ana
Location Unit Letter _____ ; Well is Located <u>1200</u> Feet From The <u>2000</u> Line And <u>1210</u> Feet From The _____		Line, Section <u>7</u> Township <u>21S</u> Range <u>1W</u> NMPM.	

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe	4 1/2				
Surface Casing	12	20	10	Ground Level	
Land String					
Tubing					Name, Model and Depth of Tubing Pack _____

Name of Proposed Injection Formation: Santa Fe Group and Related Top of Formation: 12010 Bottom of Formation: _____

Is Injection Through Tubing, Casing, or Annulus? Annulus Perforations or Open Hole? None Proposed Interval(s) of Injection: 12010 to 12015

Is This a New Well Drilled For Injection? Yes If Answer is No, For What Purpose was Well Originally Drilled? _____ Has Well Ever Been Perforated in Any Zone Other Than the Proposed Injection Zone? No

List All Such Perforated Intervals and Sacks of Cement used to Seal Off or Squeeze Each _____

Depth of Bottom of Deepest Fresh Water Zone in This Area: Below 2000 Feet Is This Injection for Purpose of Pressure Maintenance or Water Disposal? (See Rules 501 and 502) Water Disposal

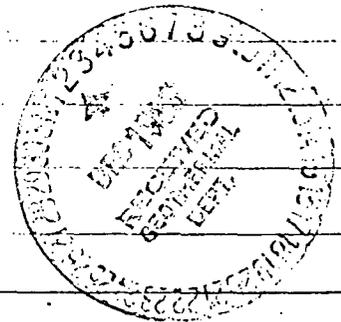
Anticipated Daily Injection Volume	Minimum <u>2000</u>	Maximum <u>7000</u>	Open or Closed Type System <u>Open</u>	Is Injection to be by Gravity or Pressure? <u>Gravity</u>	Approx. Pressure (psi)
------------------------------------	------------------------	------------------------	---	--	------------------------

Answer Yes or No Whether the Following Waters are Mineralized in such a Degree as to be Unfit for Domestic, Stock, Irrigation, or Other Purposes:
Water to be Injected: Yes Natural Water in Injection Zone: Yes Are Water Analyses Attached? Yes

Address of Surface Owner (or Lessee, if State or Federal Land):
H. W. Wilson, 210 Monroe St., Las Alamos, NM 88005

List Names and Addresses of all Operators Within One-Half (1/2) Mile of This Injection Well:

Hunt Energy Co. Dallas, Texas



Have Copies of this Application Been Sent to Each Operator Within One-Half Mile of this Well? Yes No

Are the Following Items Attached to this Application (see Rule 503):
 Plat of Area: Yes No
 Electrical Log: Yes No
 Diagrammatic Sketch of Well: Yes No

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

H. W. Wilson (Signature) Operator (Title) 11-21-67 (Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 20 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 20-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 503.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

February 15, 1984

TONY ANAYA
GOVERNOR

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

Mr. Harry N. Bailey
25256 Terreno Drive
Mission Valley, Ca. 92675

Dear Mr. Bailey:

This office has received several letters and copies of letters from Hunt Energy Corporation relating to your proposal to inject geothermal water into a well in Section 3, Township 21 South, Range 1 West. Hunt appears to be concerned that injection at the proposed location will interfere with their own geothermal operations.

I have checked our files and although the Hunt correspondence indicates that an Oil Conservation Division Form G-112 has been prepared, it has not yet been submitted to this office. Obtaining approval by this office of Form G-112 is a mandatory prerequisite to injection. Please consult your copy of the Geothermal rules and make sure all proper steps are taken. You will notice that the rules provide for notice to offsetting geothermal lease operators and allows them to object to the granting of injection authority.

I believe that the Hunt correspondence received to date is an objection and therefore under the rules, it will be necessary to schedule a hearing before the Oil Conservation Division. At this hearing both you and Hunt will be able to present your views on this matter and the Division will then issue an order approving or disapproving this injection operation.

Particularly, in view of our previous misunderstanding, I urge you to carefully review and have your consultants carefully review the Geothermal Rules and Regulations.

In this regard I understand that we have not yet received any further filings on the well which was the subject of the lawsuit. I hope you will keep in close touch with these operations.

Mr. Harry N. Bailey

Page 2

I look forward to hearing from you.

Sincerely,

W. PERRY PEARCE
General Counsel

WPP/dr

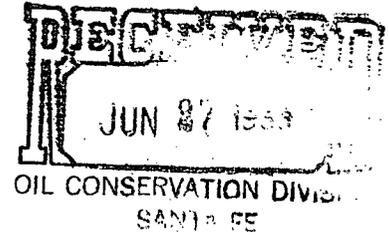
cc: Hunt Energy Corp.
2800 Thanksgiving Tower
Dallas, Texas 75201

Attention: Roger L. Bowers
Geothermal Operations

Harry N. Bailey

25256 Terreno Dr., Mission Viejo, Ca. 92675
(714) 837-9041 835-1911 (213) 924-1150

June 24, 1983



State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention: W. Perry Pearce
Assistant Attorney General

Reference: CV 83-292

Reference item has been turned over to our attorneys Martin, Lutz, Cresswell and Hubert in Las Cruces. I understand that Steve Hernandez of that firm has contacted you and will be co-operating with Dick Lohse our consulting geo-physicist and Larjon Drilling Company in making a reply to the allegations and that meanwhile you are agreeable to an extended time frame.

Steve also tells me that you had reported sending several letters to me on referenced subject and that I had not responded. I have three addresses: one in Las Cruces, one in Santa Ana and my home in Mission Viejo and such letters were not received by me at any of these. I would therefore appreciate it if you would send me copies of these letters to the above so I can see how they were addressed and learn how my mail is evidently going astray.

We may both be victims of faulty communication.

Yours very truly,


Harry N. Bailey

cc: Steven Hernandez

Carl

1/10

Dick Pashe

Re: moving to

Harry Bailey property
will be drilling his

H.N. Bailey #15 will

be spudding Tuesday

(1-11-83) won't submit

until Wednesday -

- J -

11-28-83

Memo

From
CARL ULVOG
Chief Geologist

To File Bailey #15
C-10-215-1W

Last report was G-103 for T.A. (1/28/83)
If to be completed without additional
drilling, we need

G-103 & G-106 for
production well shut-in.

If to go on production
we need G-104, 105 & 107
additional, PLUS

request for discharge permit.
(Joe handles on behalf of WQ.C.C.)

Bailey & Beal advised of above today 11/28



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

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

February 23, 1983

Commercial Union Insurance Companies
P. O. Box 20666
El Paso, Texas 79998

Attention: Linda Slape

Re: \$10,000 Multiple-Well-Low
Temperature Geothermal Bond
Harry N. Bailey, Principal
Commercial Union Insurance,
Surety
Bond No. CE71353-20

Gentlemen:

We are in receipt of your letter of February 18, 1983, requesting the status of the wells covered under the above-captioned bond. Wells Nos. 10, 11, 12, 13 and 14 can be released at this time and Wells Nos. 9 and 15 are to remain in force.

Should you need further information, please do not hesitate to contact me.

Sincerely,

Florene Davidson
Staff Specialist

RECEIVED
MAR 8 1982

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

SUNDRY NOTICES AND REPORTS CONCERNING
ON
SANTA FE
GEOTHERMAL RESOURCES WELLS

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H.N. Bailey & Associates

8. Farm or Lease Name
H.N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
10

4. Location of Well
Unit Letter C; 2300 Feet From The West Line and 50 Feet From

10. Field and Pool, or Wildcat
Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 feet

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 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 checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <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.

Completed plugging plan:

1. cut pvc tubing 2 feet below surface
2. place packer for cement 8 to 10 feet below surface within casing after backfilling casing with cuttings and dirt to this depth
3. pour cement and allow some overflow out top of casing
4. backfill with dirt

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

SIGNED Richard L. Lohse TITLE Consultant DATE 2-27-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1*	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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

**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. <i>Private</i>
7. Unit Agreement Name <i>N/A</i>
8. Farm or Lease Name <i>H. N. Bailey</i>
9. Well No. <i>10</i>
10. Field and Pool, or Wildcat <i>Wildcat</i>
12. County <i>Dona Ana</i>

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"/>
2. Name of Operator <i>H. N. Bailey & Associates</i>
3. Address of Operator <i>Route 1, Box 1288, Las Cruces, New Mexico 88001</i>
4. Location of Well Unit Letter <i>C</i> <i>2300</i> Feet From The <i>West</i> Line and <i>50</i> Feet From The <i>North</i> Line, Section <i>10</i> Township <i>21S</i> Range <i>1W</i> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) <i>GL 3980 Feet</i>

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 checked="" type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> CHANGE PLANS <input 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 & ABANDONMENT <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>
--	--

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.

Proposed plugging plan:

- 1. cut PVC tubing 2 feet below surface*
- 2. place packer for cement 8 to 10 feet below surface within casing after backfilling casing with cuttings and dirt to this depth*
- 3. pour cement and allow some overflow out top of casing*
- 4. backfill with dirt*

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

SIGNED *Richard L. Lohse* TITLE *Consultant* DATE *1-27-82*

APPROVED BY *Carl Ulvog* TITLE *SENIOR PETROLEUM GEOLOGIST* DATE *2-18-82*

CONDITIONS OF APPROVAL, IF ANY:

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

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H. N. Bailey & Associates

8. Farm or Lease Name
H. N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
10

4. Location of Well
Unit Letter C 2300 Feet From The West Line and 50 Feet From

10. Field and Pool, or Wildcat
Wildcat

The NORTH Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

12. County
Dona Ana

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

- REMEDIATION WORK
- COMMENCE DRILLING OPNS.
- CASING TEST AND CEMENT JOB
- OTHER
- ALTERING CASING
- PLUG & ABANDONMENT

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.

Drilling: began 4-23-81; Completed 4-27-81; Size of hole 5 1/8 ;
Total depth 200 feet; water-bearing zone: none ;
water-bearing formation: N/A ; Flow: none ;

Casing: 1 inch PVC tubing from 0 to 180 feet; sections are glued and capped at the bottom; annular space backfilled with cuttings and dirt

Formation: 0 to 8 feet Sand & Boulders; 8 to 23 Red clay & gravel; 23 to 36 Red clay & Boulders; 36 to 124 Red clay & gravel; 124 to 300 pink rhyolite

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

SIGNED Richard L. Lohse TITLE Consultant DATE 7-1-81

APPROVED BY Carl Urzog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7-15-81

CONDITIONS OF APPROVAL, IF ANY:

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

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DISTRIBUTION		
File	1	✓
N.M.B.M.	1	
U.S.G.S.	1	
Operator	1	
Land Office BLM	1	

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 Temp Observation
 Low-Temp Thermal Injection/Disposal
 2. Name of Operator **H.N. BAILEY**
 3. Address of Operator **Rt 1 BOX 1288 Las Cruces 88001**
 4. Location of Well UNIT LETTER _____ LOCATED **20** FEET FROM THE **N** LINE
 AND **2140** FEET FROM THE **W** LINE OF SEC. **10** TWP. **21 S** RGE. **1 W** NMPM
 19. Proposed Depth **500'**
 20. Rotary or C.T. **ROTARY**
 21. Elevations (Show whether DF, RT, etc.)
 21A. Kind & Status Plug. Bond
 21B. Drilling Contractor **LARJON**
 22. Approx. Date Work will start **26 Apr 81**

7. Unit Agreement Name
 8. Farm or Lease Name **H.N. BAILEY**
 9. Well No. **10**
 10. Field and Pool, or Wildcat **Wildcat**
 12. County **Dona Ana**

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500'		

APPROVAL VALID FOR **90** DAYS
 PERMIT EXPIRES **8-23-81**
 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 **H.N. Bailey** Title **Owner/operator** Date **22 Apr '81**
 (This space for State Use)

APPROVED BY **Carl Ulvog** TITLE **SENIOR PETROLEUM GEOLOGIST** DATE **5/25/81**
 CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

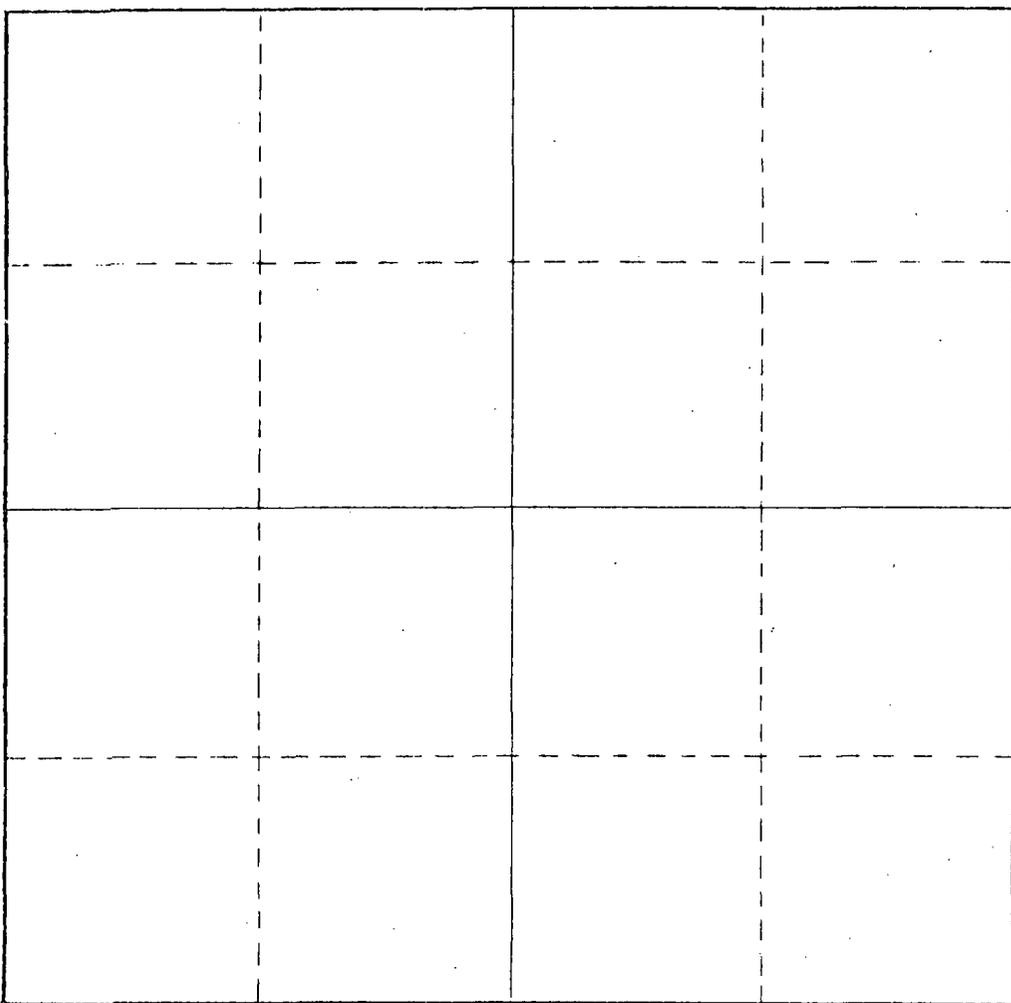
Operator H. N. BAILEY		Lease			Well No. 10
Unit Letter	Section 10	Township 21 S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 20 feet from the N line and 2140 feet from the W line					
Ground Level Elev.	Producing Formation.	Pool	Dedicated Acreage: 5 Acres		

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 Commission.



CERTIFICATION

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

Name
H. N. BAILEY
Position
Owner/Operator
Company

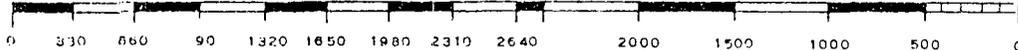
Date
4-22-81

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.

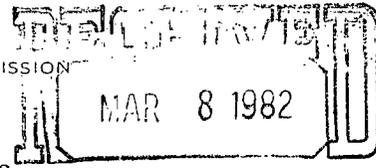
Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



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



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DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS ON
GEOHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE
5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H. N. Bailey & Associates

8. Farm or Lease Name
H. N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
11

4. Location of Well
Unit Letter B ; 2400 Feet From The East Line and 850 Feet From
The North Line, Section 10 Township 21S Range 1W NMPM.

10. Field and Pool, or Wildcat
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

12. County
Dona Ana

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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.

Completed plugging plan:

1. backfill hole with cuttings and dirt to within 5 feet from bottom of casing
2. set packer for cement and pour cement plug up to and within bottom of casing
3. backfill casing with cuttings and dirt to within 4 feet from surface (if possible; the casing is only approx. 4 feet long)
4. cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow
5. backfill with dirt to surface

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

SIGNED Richard L. Lohse TITLE Consultant DATE 2-27-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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

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

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H. N. Bailey & Associates

8. Farm or Lease Name
H. N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
11

4. Location of Well
Unit Letter B 2400 Feet From The East Line and 850 Feet From

10. Field and Pool, or Wildcat
Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

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

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.

Proposed plugging plan:
 1. backfill hole with cuttings and dirt to within 5 feet from bottom of casing
 2. set packet for cement and pour cement plug up to and within bottom of casing
 3. backfill casing with cuttings and dirt to within 4 feet from surface (if possible; the casing is only approx. 4 feet long)
 4. cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow
 5. backfill with dirt to surface

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

SIGNED Richard L. Lohse TITLE Consultant DATE 1-27-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 2-18-82

CONDITIONS OF APPROVAL, IF ANY:

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File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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

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

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

7. Unit Agreement Name
N/A

8. Farm or Lease Name
H. N. Bailey

9. Well No.
11

10. Field and Pool, or Wildcat
Wildcat

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 Temp. Observation
Low-Temp Thermal Injection/Disposal

2. Name of Operator
H. N. Bailey & Associates

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico, 88001

4. Location of Well
Unit Letter B 2400 Feet From The East Line and 850 Feet From
The North Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

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

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.

Drilling: began 5-29-81; Completed 5-30-81; Size of hole 5 inch;
total depth 130 feet;
Formation: 0 to 3 feet alluvium; 4 to 130 extremely fractured limestone and pink thylite
Water-bearing zone: top 9 feet; Bottom 130 feet
Water-bearing formation: pink thylite and limestone
Flow: 80 gpm (estimated)
Casing: top 0 feet; Bottom 4 feet; Diameter 5 inch;
Cement none

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

SIGNED Richard L. Lohse TITLE Consultant DATE 7-1-81

APPROVED BY Carl Wloog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7-15-81

CONDITIONS OF APPROVAL, IF ANY:

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

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

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N.M.B.M.	1	
U.S.G.S.	1	
Operator	1	
Land Office	BLM	1

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 Temp Observation
Low-Temp Thermal Injection/Disposal

7. Unit Agreement Name

8. Farm or Lease Name
H.N. BAILEY

2. Name of Operator
H.N. BAILEY

9. Well No.
11

3. Address of Operator
Rt 1 Box 1288

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well UNIT LETTER _____ LOCATED 890 FEET FROM THE N LINE
AND 2420 FEET FROM THE E LINE OF SEC. 10 TWP. 21 S RGE. 1 W NMPM

12. County
Dona Ana

19. Proposed Depth 500'
19A. Formation
20. Rotary or C.T. ROTARY
21. Elevations (Show whether DF, RT, etc.)
21A. Kind & Status Plug. Bond
21B. Drilling Contractor LARJON
22. Approx. Date Work will start 5-5-81

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500'		

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 8-23-81
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 Ar. Bailey Title Owner/operator Date 5-3-81

(This space for State Use)
APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/25/81

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

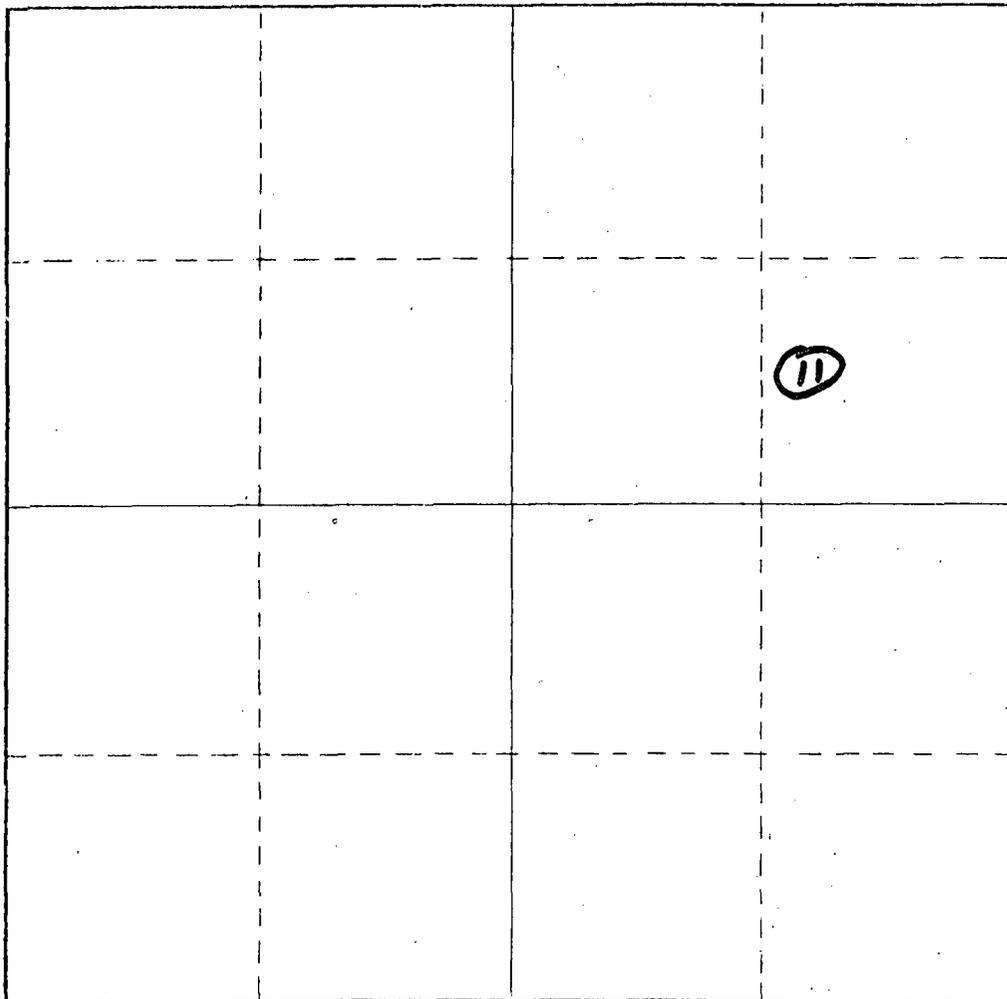
Operator		Lease			Well No. 11
Unit Letter	Section 10	Township 21 S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 890 feet from the N line and 2420 feet from the E line					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 5 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

Name **H. N. BAILEY**
Position **Owner/Operator**
Company _____

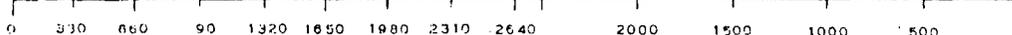
Date **5-3-'81**

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 _____

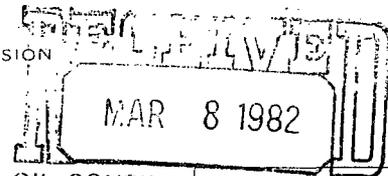
Registered Professional Engineer and/or Land Surveyor _____

Certificate No. _____



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N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE
Indicate type of Lease
Fee

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 N/A
2. Name of Operator H.N. Bailey & Associates	8. Farm or Lease Name H.N. Bailey
3. Address of Operator Route 1, Box 1288, Las Cruces, New Mexico 88001	9. Well No. 12
4. Location of Well Unit Letter B; 1550 Feet From The East Line and 800 Feet From The North Line, Section 10 Township 21S Range 1W NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GL 3980 Feet	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 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 & ABANDONMENT <input checked="" type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>
---	---

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.

Completed plugging plan:

- backfill hole with cuttings and dirt to within 5 feet from bottom of casing
- set packer for cement and pour cement plug up to and within bottom of casing
- backfill casing with cuttings and dirt to within 4 feet from surface
- cut casing 2 feet below surface (if possible; bedrock encountered at surface) and pour cement plug from 4 feet to 2 feet below surface and allow some overflow (we may cement to surface)
- backfill with dirt to surface (if possible)

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

SIGNED Richard L. Lohse TITLE Consultant DATE 2-27-82

APPROVED BY Carl Wloog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

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Operator	1	
Land Office		

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

**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. <i>Private</i>
7. Unit Agreement Name <i>N/A</i>
8. Farm or Lease Name <i>H. N. Bailey</i>
9. Well No. <i>12</i>
10. Field and Pool, or Wildcat <i>Wildcat</i>
12. County <i>Dona Ana</i>

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"/>
2. Name of Operator <i>H. N. Bailey & Associates</i>
3. Address of Operator <i>Route 1, Box 1288, Las Cruces, New Mexico 88001</i>
4. Location of Well Unit Letter <i>B</i> <i>1550</i> Feet From The <i>East</i> Line and <i>800</i> Feet From The <i>North</i> Line, Section <i>10</i> Township <i>21S</i> Range <i>1W</i> NMPM.
15. Elevation (Show whether DF, RT, GR, etc.) <i>GL 3980 Feet</i>

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"/>	

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.

Proposed plugging plan:

- 1. backfill hole with cuttings and dirt to within 5 feet from bottom of casing*
- 2. set packer for cement and pour cement plug up to and within bottom of casing*
- 3. backfill casing with cuttings and dirt to within 4 feet from surface*
- 4. cut casing 2 feet below surface (if possible); bedrock encountered at surface and pour cement plug from 4 feet to 2 feet below surface and allow some over flow (we may cement to surface)*
- 5. backfill with dirt to surface (if possible)*

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNED *Richard L. Lohse* TITLE *Consultant* DATE *1-27-82*

APPROVED BY *Carl Ulrey* TITLE *SENIOR PETROLEUM GEOLOGIST* DATE *2-18-82*

CONDITIONS OF APPROVAL, IF ANY:

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

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N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State Fee

5.a State Lease No.

Private

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 N/A
2. Name of Operator H.N. Bailey and Associates	8. Farm or Lease Name H.N. Bailey
3. Address of Operator Route 1, Box 1288, Las Cruces, New Mexico, 88001	9. Well No. 12
4. Location of Well Unit Letter <u>B</u> <u>1550</u> Feet From The <u>East</u> Line and <u>800</u> Feet From The <u>NORTH</u> Line, Section <u>10</u> Township <u>21S</u> Range <u>1W</u> NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) GL 3980 Feet	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

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.

Drilling: began 6-5-81; Completed 6-7-81; Size of hole 5";
Total depth 115 feet;

Formation: 0 to 14 feet Loose sand, gravel, & boulders
14 to 115 feet Fractured pink rhyolite

Water-bearing zone: 11 to 115 feet

Water-bearing formation: Pink rhyolite

Flow: 50 gpm (estimated)

Casing: top 0 feet; bottom 14 feet; Diameter 5 inch;
Cement none

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

SIGNED Richard L. Lohse TITLE Consultant DATE 7-1-81

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7-15-81

CONDITIONS OF APPROVAL, IF ANY:

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

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U.S.G.S.	1	
Operator	1	
Land Office	BLM	1

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 Temp Observation
 Low-Temp Thermal Injection/Disposal
 2. Name of Operator **H.N. BAILEY**
 3. Address of Operator **Rt 1 Box 1288**
 4. Location of Well UNIT LETTER _____ LOCATED **870** FEET FROM THE **N** LINE
 AND **1660** FEET FROM THE **E** LINE OF SEC. **10** TWP. **21 S** RGE. **1 W** NMPM
 19. Proposed Depth **500'**
 19A. Formation _____
 20. Rotary or C.T. **ROTARY**
 21. Elevations (Show whether DF, RT, etc.) _____
 21A. Kind & Status Plug. Bond _____
 21B. Drilling Contractor **LARDON**
 22. Approx. Date Work will start **5-8-81**

7. Unit Agreement Name _____
 8. Farm or Lease Name **H.N. BAILEY**
 9. Well No. **12**
 10. Field and Pool, or Wildcat **Wildcat**
 12. County **Dona Ana**

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500'		

APPROVAL VALID FOR **90** DAYS
 PERMIT EXPIRES **8-23-81**
 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 **H.N. Bailey** Title **Owner/Operator** Date **5-3-81**

APPROVED BY **Carl Ulvog** TITLE **SENIOR PETROLEUM GEOLOGIST** DATE **5/25/81**
 CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

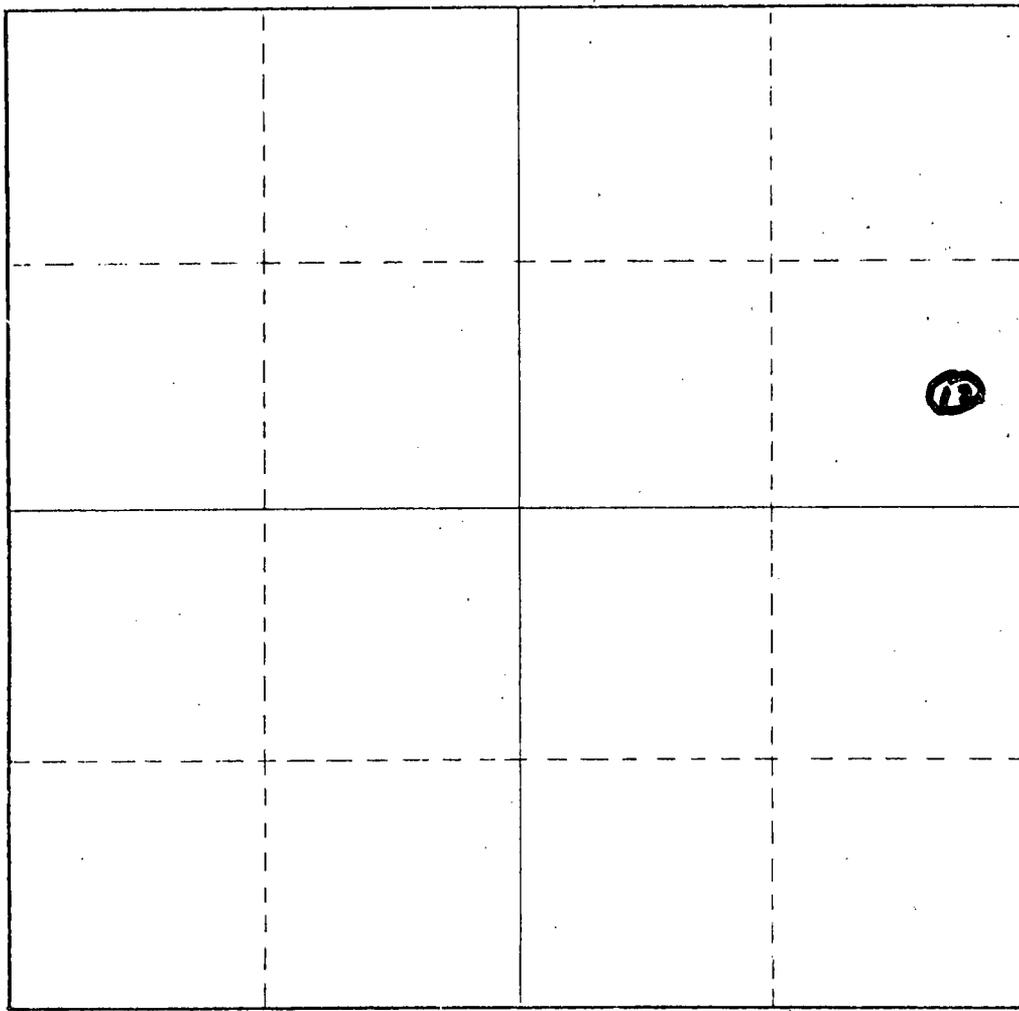
Operator H. N. BAILEY		Lease			Well No. 12
Unit Letter	Section 10	Township 21 S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 870 feet from the N line and 1660 feet from the E line					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 5 Acres		

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 Commission.



CERTIFICATION

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

Name **H. N. BAILEY**
Position **Owner/Operator**
Company _____

Date **5-3-'81**

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.

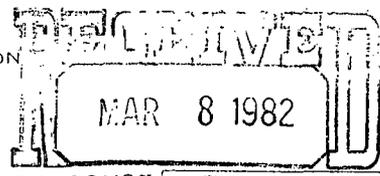
Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor _____

Certificate No. _____



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



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U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE Fee

5. a State Lease No. Private

7. Unit Agreement Name N/A

8. Farm or Lease Name H. N. Bailey

9. Well No. 13

10. Field and Pool, or Wildcat Wildcat

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 Temp. Observation
 Low-Temp Thermal Injection/Disposal

2. Name of Operator
H. N. Bailey & Associates

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

4. Location of Well
 Unit Letter B; 1600 Feet From The East Line and 650 Feet From
 The North Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, CR, etc.)
GL 3980 feet

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 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 checked="" 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"/>	

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.

Completed plugging plan:

1. back fill hole with cuttings and dirt to within 5 feet from bottom of casing
2. set packer for cement and pour cement plug up to and within bottom of casing
3. back fill casing with cuttings and dirt to within 4 feet from surface
4. cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow
5. back fill with dirt to surface

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

SIGNED Richard L. Lohse TITLE Consultant DATE 2-27-82

APPROVED BY Carl Wloog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

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

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U. S. G. S.		
Operator	1	
Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

7. Unit Agreement Name
N/A

8. Farm or Lease Name
H. N. Bailey

9. Well No.
13

10. Field and Pool, or Wildcat
Wildcat

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 Temp. Observation
Low-Temp Thermal Injection/Disposal

2. Name of Operator
H. N. Bailey & Associates

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

4. Location of Well
Unit Letter *B*; *1600* Feet From The *East* Line and *650* Feet From
The *North* Line, Section *10* Township *21S* Range *1W* NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 feet

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"/>	OTHER <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.

Proposed plugging plan:

- 1. back fill hole with cuttings and dirt to within 5 feet from bottom of casing*
- 2. set packer for cement and pour cement plug up to and within bottom of casing*
- 3. back fill casing with cuttings and dirt to within 4 feet from surface*
- 4. cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow*
- 5. back fill with dirt to surface*

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

SIGNED *Richard L. Lohse* TITLE *Consultant* DATE *1-27-82*

APPROVED BY *Carl Ulvog* TITLE *SENIOR PETROLEUM GEOLOGIST* DATE *2-18-82*

CONDITIONS OF APPROVAL, IF ANY:

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U. S. G. S.		
Operator	1	
Land Office		

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

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

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H. N. Bailey + Associates

8. Farm or Lease Name
H. N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
13

4. Location of Well
Unit Letter B 1600 Feet From The EAST Line and 650 Feet From

10. Field and Pool, or Wildcat
Wildcat

The NORTH Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

12. County
Dona Ana

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

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.

Drilling: began 6-8-81; completed 6-9-81; size of hole 5 inch;
total depth 145 feet;
Formation: 0 to 21 feet alluvial
21 to 145 feet fractured pink rhyolite
Water-bearing zone: 20 to 145 feet
Water-bearing formation: pink rhyolite
Flow: 75 gpm (estimated)
Casing: top 0 feet; bottom 21 feet; diameter 5 inch;
Cement: none

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

SIGNED Richard L. Lohse TITLE Consultant DATE 7-1-81

APPROVED BY Carl Ulsog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7-15-81

CONDITIONS OF APPROVAL, IF ANY:

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U.S.G.S.	1	
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 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

2. Name of Operator **H. N. BAILEY**
3. Address of Operator **Rt 1 Box 1288 Las Cruces 88001**

8. Farm or Lease Name
H. N. BAILEY

9. Well No.
13

4. Location of Well UNIT LETTER _____ LOCATED **540** FEET FROM THE **N** LINE
AND **1740** FEET FROM THE **E** LINE OF SEC. **10** TWP. **21 S** RGE. **1 W** NMPM

10. Field and Pool, or Wildcat
Wildcat

12. County
Dona Ana

19. Proposed Depth **500** 19A. Formation _____ 20. Rotary or C.T. **ROTARY**
21. Elevations (Show whether DF, RT, etc.) _____ 21A. Kind & Status Plug. Bond _____ 21B. Drilling Contractor **LARDON** 22. Approx. Date Work will start **5-15-81**

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500'		

APPROVAL VALID FOR **90** DAYS
PERMIT EXPIRES **8-23-81**
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 **H. N. Bailey** Title **Owner/operator** Date **5-3-81**

(This space for State Use)

APPROVED BY **Carl Ulvog** TITLE **SENIOR PETROLEUM GEOLOGIST** DATE **5/25/81**

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

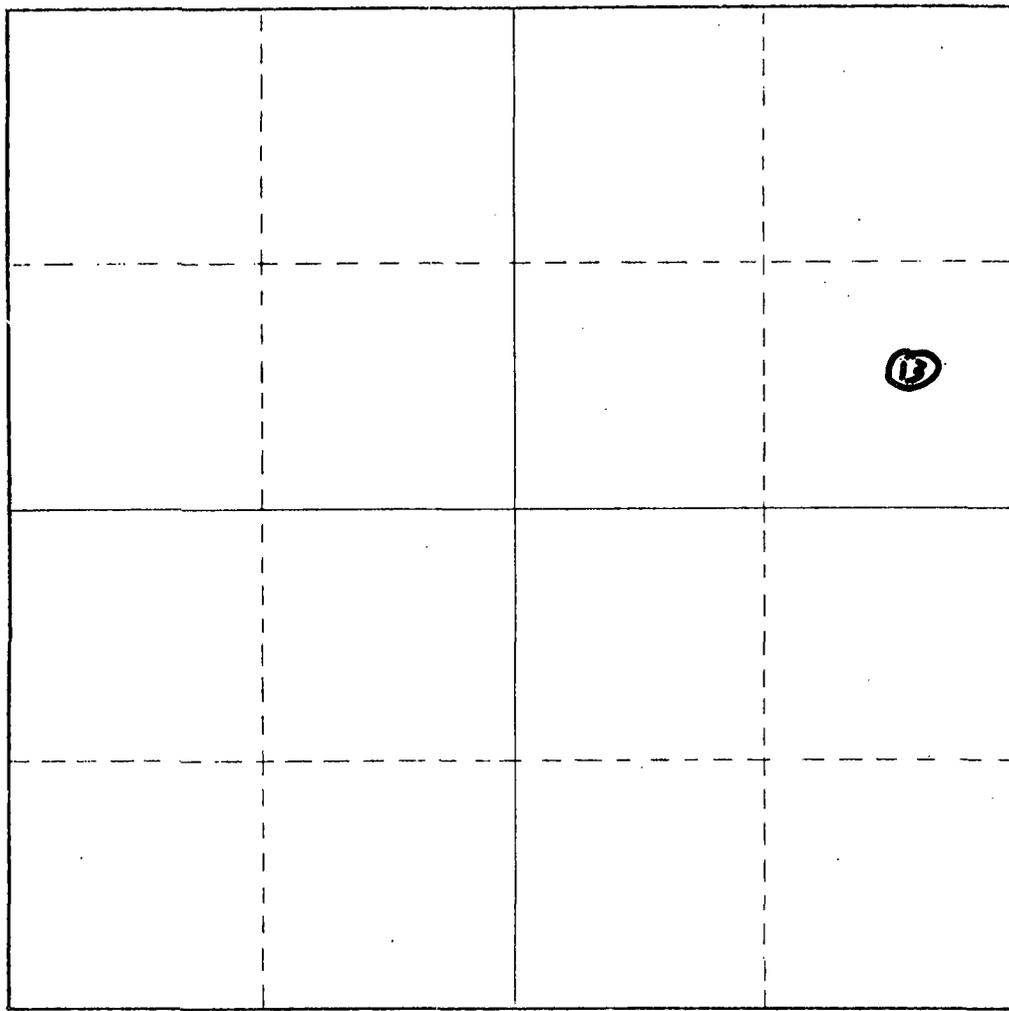
Operator H. N. BAILEY		Lease		Well No. 13	
Unit Letter	Section 10	Township 21 S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 540 feet from the N line and 1740 feet from the E line					
Ground Level Elev.	Producing Formation		Pool	Dedicated Acreage: 5 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

Name
H. N. BAILEY
Position
Owner/operator
Company

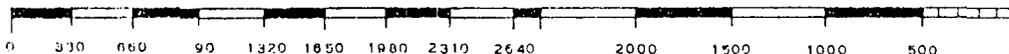
Date
5-3-81

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

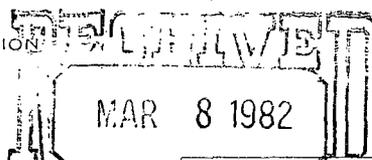
Registered Professional Engineer and/or Land Surveyor

Certificate No.



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DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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



SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

OIL CONSERVATION DIVISION
SANTA FE State Fee

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

5. State Lease No. Private
7. Unit Agreement Name N/A
8. Farm or Lease Name H.N. Bailey
9. Well No. 14

2. Name of Operator H.N. Bailey & Associates

3. Address of Operator Route 2, Box 1288, Las Cruces, New Mexico 88001

4. Location of Well
Unit Letter C; 2500 Feet From The West Line and 550 Feet From
The North Line, Section 10 Township 21S Range 1W NMPM.

10. Field and Pool, or Wildcat Wildcat

15. Elevation (Show whether DF, RT, GR, etc.) GL 3980 Feet

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 checked="" 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"/>	

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.

Completed plugging plan:

- backfill hole with cuttings and dirt to within 5 feet from bottom of casing
- set packer for cement and pour cement plug up to and within bottom of casing
- backfill casing with cuttings and dirt to within 4 feet from surface
- cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow
- backfill with dirt to surface

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNED Richard L. Lohse TITLE Consultant DATE 2-27-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 3-8-82

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	✓
N. M. B. M.		
U. S. G. S.		
Operator	1	
Land Office		

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

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

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H.N. Bailey & Associates

8. Farm or Lease Name
H.N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
14

4. Location of Well
Unit Letter C 2500 Feet From The West Line and 550 Feet From

10. Field and Pool, or Wildcat
Wildcat

The North Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

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

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.

Proposed plugging plan:
1. backfill hole with cuttings and dirt to within 5 feet from bottom of casing
2. set packer for cement and pour cement plug up to and within bottom of casing
3. backfill casing with cuttings and dirt to within 4 feet from surface
4. cut casing 2 feet below surface and pour cement plug from 4 feet to 2 feet below surface and allow some overflow
5. backfill with dirt to surface

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

SIGNED Richard L. Lohse TITLE Consultant DATE 1-27-82

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 2-18-82

CONDITIONS OF APPROVAL, IF ANY:

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U. S. G. S.		
Operator	1	
Land Office		

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

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

5. Indicate Type of Lease
State Fee

5.a State Lease No.
Private

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
H.N. Bailey & Associates

8. Farm or Lease Name
H.N. Bailey

3. Address of Operator
Route 1, Box 1288, Las Cruces, New Mexico 88001

9. Well No.
14

4. Location of Well
Unit Letter C 2500 Feet From The West Line and 550 Feet From

10. Field and Pool, or Wildcat
Wildcat

The NORTH Line, Section 10 Township 21S Range 1W NMPM.

15. Elevation (Show whether DF, RT, GR, etc.)
GL 3980 Feet

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

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.

Drilling: began 6-13-81; completed 6-14-81; size of hole 5 inch;
total depth 25 feet;
Formation: 0 to 10 feet alluvium
10 to 25 feet extremely fractured pink rhyolite
Water-bearing zone: 10 to 25 feet
Water-bearing formation: fractured pink rhyolite
flow: 40 gpm (estimated)
Casing: top 0 feet; bottom 10 feet; Diameter 5 inch;
Cement: none

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

SIGNED Richard L. Lohse TITLE Consultant DATE 7-1-81

APPROVED BY Carl Wloog TITLE SENIOR PETROLEUM GEOLOGIST DATE 7-15-81

CONDITIONS OF APPROVAL, IF ANY:

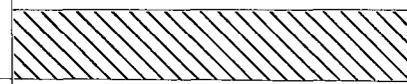
NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2088, Santa Fe 87501

NO. OF COPIES RECEIVED		
DISTRIBUTION		
File	1	<input checked="" type="checkbox"/>
N.M.B.M.	1	
U.S.G.S.	1	
Operator	1	
Land-Office	BLM	1

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 Temp Observation
Low-Temp Thermal Injection/Disposal



7. Unit Agreement Name

2. Name of Operator **H.N. BAILEY**

8. Farm or Lease Name **H.N. BAILEY**

3. Address of Operator **Rt 1 Box 1288 Las Cruces 88001**

9. Well No. **14**

4. Location of Well UNIT LETTER _____ LOCATED **530** FEET FROM THE **N** LINE
AND **2620** FEET FROM THE **W** LINE OF SEC. **10** TWP. **21 S** RGE. **1 W** NMPM

10. Field and Pool, or Wildcat **Wildcat**



12. County **Dona Ana**

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	19. Proposed Depth 500	19A. Formation	20. Rotary or C.T. ROTARY
		21B. Drilling Contractor	22. Approx. Date Work will start	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500'		

APPROVAL VALID FOR **90** DAYS
PERMIT EXPIRES **8-23-81**
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 **H.N. Bailey** Title **Owner/Operator** Date **5-3-'81**
(This space for State Use)

APPROVED BY **Carl Ulvog** TITLE **SENIOR PETROLEUM GEOLOGIST** DATE **5/25/81**

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

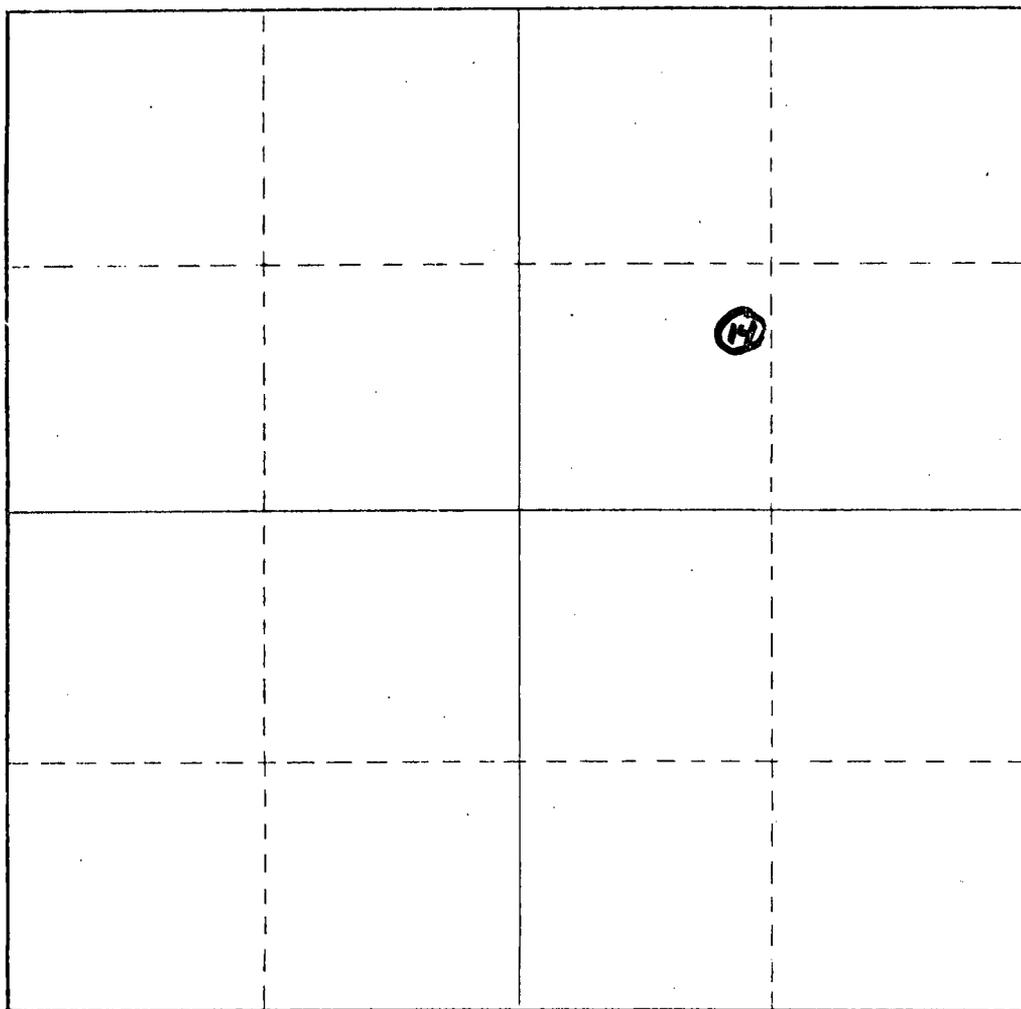
Operator H.N. BAILEY		Lease			Well No. 14
Unit Letter	Section 10	Township 21 S	Range 1 W	County Dona Ana	
Actual Footage Location of Well: 530 feet from the N line and 2620 feet from the W line					
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 5 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



CERTIFICATION

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

Name **H.N. BAILEY**
Position **OWNER/OPERATOR**
Company _____

Date **5-3-'81**

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. _____

