

GTLT - _____ 18 _____

**Thomas F. Ryan
10-21S-1W
Dona Ana County**

Well Nos. 1 - 2

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Operator	
Land Office	

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State Fee

5.a State Lease No.
N/A

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

1. Type of well Geothermal Producer <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 Thomas F. Ryan	8. Farm or Lease Name Ryan
3. Address of Operator 2804 West Union, Las Cruces, NM 88005	9. Well No. 1
4. Location of Well Unit Letter <u>G</u> , <u>1,420</u> Feet From The <u>East</u> Line and <u>1,450</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.)	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 XX
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.

Hole has been plugged and abandoned (3/24/83) in accordance with Oil Conservation Division regulations.

- o The PVC tubing was cut off 2 feet below the surface.
- o The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap.
- o The hole was backfilled and the surface reclaimed.

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

SIGNED Thomas F. Ryan TITLE Owner DATE 3 May 1983

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 5-6-83

CONDITIONS OF APPROVAL, IF ANY:

April 27, 1983

Mr. Carl Ulvog
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Ulvog:

Please find enclosed the following documents:

- (1) G-103, Commence Drilling Operations
- (2) G-103, Plug and Abandonment
- (3) Cementer's Affidavit

As you will note, I have supplied all of the information that you requested in your letter dated 4/19/83. I hope that this information is sufficient to satisfy the Oil Conservation Division Rules and Regulations. Should there be any further requirements, please inform me as I intend to fully comply with the law.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Ryan". The signature is fluid and cursive, with a large loop at the end.

TOM RYAN

Enclosures

CEMENTER'S AFFADAVIT

OPERATOR: Tom Ryan
2804 W. Union
Las Cruces, NM 88005

HOLE TYPE: Temperature gradient

HOLE NUMBER: 1

LOCATION: Unit letter G, Section 10, Township 21S, Range 1W

PLUG: 1 bag Portland Cement
Approximately 15 gallons water
4 3/8

PLUG DATE: 3/24/83

CEMENTING COMPANY: LarJon Drilling Co.
P.O. Box 925
Mesilla Park, NM 88047

SIGNED Barry Johnson for LarJon Drilling Co.

DATE _____

Memo

HOLD

From

CARL ULVOG

Chief Geologist

To

Ryan #1 Ryan

G-10-215-1W Dona Ana

Hold for notarized verification
of plugging. (O.C.D. not notified)

NO C-103 reporting depth
reached, tubing setting, etc.; no
rates of spudding, completion, etc.

Memo of notification - 2/27/81 -
was attached to permit.

I was there on 2/10/83; alluvium
had been penetrated, silicious limestone
encountered @ \pm 175'. I told them, either
stop or case off upper part of hole if they
wanted to go deeper.



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

April 18, 1983

Thomas F. Ryan
2804 West Union
Las Cruces, New Mexico 88005

Dear Mr. Ryan:

Attached is a copy of a recently submitted Form G-103. Approval of action reported there-in has been suspended, awaiting your compliance with Memorandum of 2/27/81 - copy of which was attached to (and became a condition of OCD approval of) your permit to drill. Another copy of said Memorandum is enclosed for your convenience.

Please note that this memorandum is used as a convenience to the operator. Lacking such a proviso, the operator is subject to Rule 302 of the State Geothermal Regulations. However, the stipulation of above-mentioned memorandum waives only the PRIOR notification by filing a Form G-103; it does not exempt an operator from submitting the data required by that Rule 302.

Yours truly,

CARL ULVOG
Geothermal Supervisor

CU/jc

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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 Fee

5.a State Lease No.
N/A

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

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

7. Unit Agreement Name
N/A

2. Name of Operator
Thomas F. Ryan

8. Farm or Lease Name
Ryan

3. Address of Operator
2804 West Union Las Cruces, NM 88005

9. Well No.
1

4. Location of Well
Unit Letter G, 1420 Feet From The East Line and 1450 Feet From
The North Line, Section 10 Township 215 Range 1W NMPM.

10. Field and Pool, or Wildcat
Wildcat

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

12. County
Dona Ana

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

NOTICE OF INTENTION TO:

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

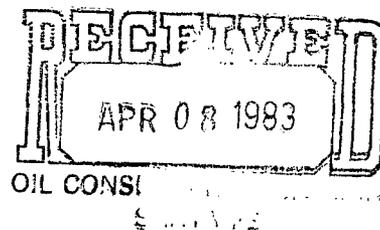
SUBSEQUENT REPORT OF:

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

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

Hole has been plugged and abandoned (3/24/83) in accordance with Oil Conservation Division regulations.

- o The PVC tubing was cut off 2 feet below the surface
- o The top 8 feet of the PVC were filled with cement and the cement was allowed to overflow into the annular space to form a permanent cap
- o The hole was backfilled and the surface reclaimed



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

APPROVED BY Thomas F. Ryan TITLE Owner DATE 6 April 1983

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

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

* * * NOTICE - NOTICE * * *

MEMORANDUM

TO: OPERATORS, DIVISION DISTRICT IV

FROM: CARL ULVOG, DISTRICT SUPERVISOR

SUBJECT: WITNESSING OF CASING-CEMENTING AND WELL PLUGGING OPERATIONS

The District IV office of the Oil Conservation Division is to be notified of casing-cementing or well plugging in sufficient time to permit Division inspection of such operations.

In those cases where the operator fails to provide such notice the operator shall obtain and submit a cementer's affidavit describing the cementing operation giving volumes used, cement class type(s), additives used, and slurry weight; quantity, weight, and volume of mud mixed, if any; and such other detail as may be appropriate to confirm the cementing or plugging operations. The cementer's affidavit shall be signed by a representative of the cementing company and shall be filed by the operator with Division Form C-103 "Sundry Notices and Reports on Wells" which reports such operation.

February 27, 1981

jc/

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

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

DEC 3 1982

O. C. D.

ARTESIA OFFICE

5. Indicate Type of Lease
STATE FEE
5.a State Lease No. N/A

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

7. Unit Agreement Name
N/A

8. Farm or Lease Name
Ryan

2. Name of Operator
THOMAS F. RYAN

9. Well No. 1

3. Address of Operator
2804 West Union

10. Field and Pool, or Wildcat
Wildcat

4. Location of Well UNIT LETTER G LOCATED 1420 FEET FROM THE East LINE
AND 1450 FEET FROM THE North LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

12. County
Dona Ana

19. Proposed Depth 300'
19A. Formation Santa Fe
20. Rotary or C.T. Rotary

21. Elevations (Show whether DJF, RT, etc.)
21A. Kind & Status Plug Bond Single Well #
21B. Drilling Contractor to be determined
22. Approx. Date Work will start January 1, 1983

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
5-3/4"	1-1/2" PVC		300'	N/A	N/A

Well described above will be drilled for temperature observation and feasibility study.

COMPLETION OF TEMPERATURE MEASUREMENTS TO BE FOLLOWED BY PLUGGING IN ACCORD WITH OCD REGULATIONS.

OIL CONSERVATION DIVISION

DEC 6 1982

RECEIVED

APPROVAL VALID FOR 90 DAYS
PERMIT EXPIRES 3-10-83
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.

Title _____ Date 11-19-82

(This space for State Use)

APPROVED BY Carl Ulvog TITLE DISTRICT SUPERVISOR DATE 12/10/82

CONDITIONS OF APPROVAL, IF ANY:
OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

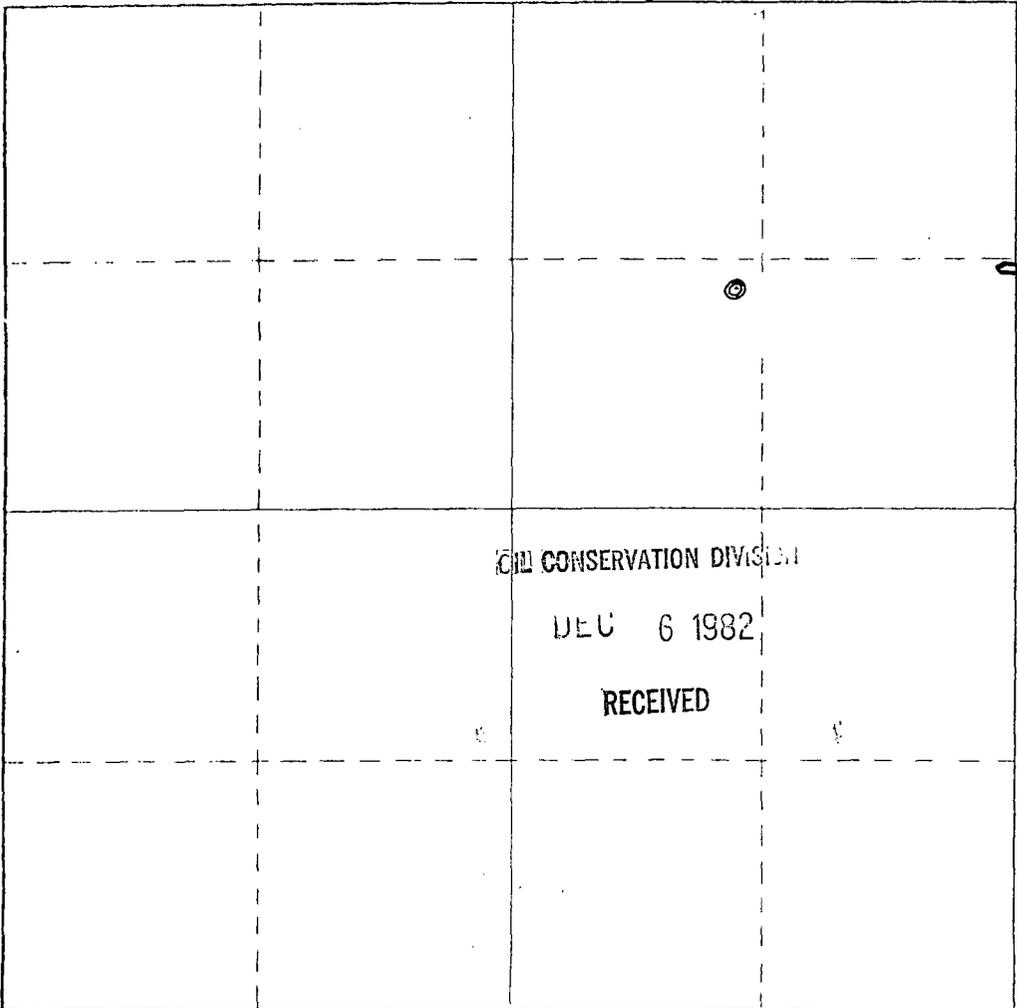
All distances must be from the outer boundaries of the Section.

Operator THOMAS F. RYAN		Lease <i>Ryan</i>		Well No. 1	
Unit Letter G	Section 10	Township 21S	Range 1W	County Dona Ana	
Actual Footage Location of Well: 1420 feet from the East line and 1450 feet from the North line					
Ground Level Elev.	Producing Formation Santa Fe Fill		Pool Radium Springs		Dedicated Acreage: 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). **N/A**
 - 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? **N/A**
- 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.



OIL CONSERVATION DIVISION
DEC 6 1982
RECEIVED

CERTIFICATION

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

Name *Thomas F. Ryan*
Position _____

Company _____

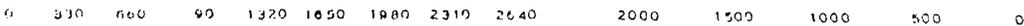
Date
November 19, 1982

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 _____

Registered Professional Engineer and/or Land Surveyor _____

Certificate No. _____





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

December 28, 1982

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

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

Mr. Thomas F. Ryan III
2804 West Union
Las Cruces, New Mexico 88005

Re: \$2,000 One-Well Low-Temperature
Geothermal Bond
Thomas F. Ryan III, Principal
Safeco Insurance Company of
America, Surety
Bond No. 2616664

Gentlemen:

The Oil Conservation Division hereby approves
the above-referenced geothermal bond effective
December 17, 1982.

Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Carl Ulvog - Santa Fe

MATHER, WIESE AND GARDNER, INC.
LAND SURVEYORS AND ENGINEERS
1280 MED PARK DRIVE, SUITE A
LAS CRUCES, NEW MEXICO 88005
TELEPHONE: 524-1502

December 9, 1982

OIL CONSERVATION DIVISION

DEC 13 1982

Carl Ulvog, Director
Oil Conservation Division
Energy and Minerals Department
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87501

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Re: Geothermal Test Well Application for Thomas F. Ryan

Dear Mr. Ulvog:

As per our telephone conversation of this date I am requesting that the following items be changed on the G-101 Form submitted to you:

- 1) Change Item 8 from N/A to Ryan;
- 2) Change Item 9 from Ryan-001 to 001;
- 3) Add 2616664 to Item 21A.

Also, as per our conversation, please delete the Form G-102 from the application package. No land is needed to be dedicated to a Temperature Observation Well.

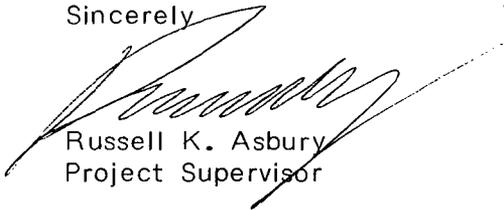
Please find enclosed a \$2000 one-well bond as required.

I hope this information will be of help to you in the approval of the aforementioned application.

Thank you for your time and cooperation on this matter.

If there are any other questions or comments about the application, please feel free to contact me at this office.

Sincerely



Russell K. Asbury
Project Supervisor

Encl:

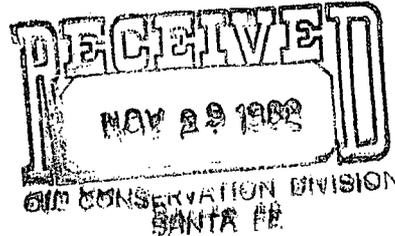
RKA:ja

MATHER, WIESE AND GARDNER, INC.
LAND SURVEYORS AND ENGINEERS
1280 MED PARK DRIVE, SUITE A
LAS CRUCES, NEW MEXICO 88005
TELEPHONE: 524-1502

RECEIVED

DEC 3 1982

O. C. D.
ARTESIA, OFFICE



November 22, 1982

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

Please find enclosed four copies each of forms G-101 and G-102 and the Designation of Agent form for Mr. Thomas F. Ryan.

If there are any questions or comments about the information contained in these forms, do not hesitate to contact me at your earliest convenience.

Thank you for your time and cooperation on this matter.

Sincerely

A large, stylized handwritten signature in black ink, appearing to read "Russell K. Asbury".

Russell K. Asbury
Project Engineer

Enclosures

RKA:ja

12/9/82: By telephone, I advised that; (on C-101 & C-102)

- (1) Item 8 is applicable, if Ryan is landowner, that should be Ryan
- (2) Item 9 is number only, call it no. 1.
- (3) No acreage dedicated to gradient hole because it must be plugged.
- (4) no bond filed here.

Memo

From

ROY JOHNSON
Geologist

To File

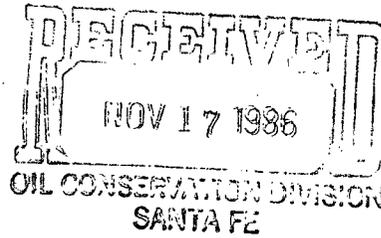
11-2-89

Note: This well has been drilled, on Fedl. acreage - BLM mandates plugging & subsequent clean up Jim Witcher - NMSU claims all in order - OK to release bond

ENERGY INSTITUTE

Box 3E1/Las Cruces, New Mexico 88003
Telephone (505) 646-1745

November 14, 1986



Mr. Roy Johnson
Oil and Gas Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Dear Mr. Johnson:

This letter is to introduce myself, Jim Witcher, and send in the OCD Forms G-101 and G-102 for Mr. Tom Ryan. I replaced Jim Gross as staff geologist at the New Mexico State University Energy Institute and I'll be assisting Tom Ryan with his geothermal drilling program. If you have comments or questions concerning these applications please call. My number is 646-2856.

Sincerely,

A handwritten signature in cursive script that reads "Jim C. Witcher".

James C. Witcher
Staff Geologist

JCW/gcv

*Discuss
Geothermal bond
Thomas F. Ryan
TWR
Ry*



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

November 3, 1989

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

Safeco Insurance Companies
9630 N. 25th Avenue
Suite 314
Phoenix, Az. 85021-2712

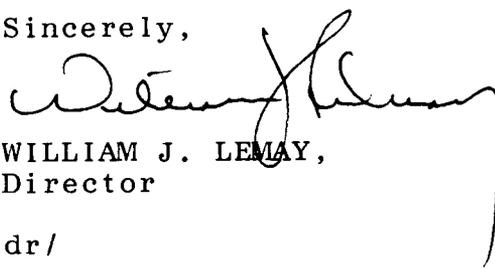
Attention: Dorothy Miller

Re: \$2,000 One-Well Low-Temperature
Geothermal Observation Well Bond
Thomas F. Ryan, Principal
Ryan Well No. 2, Unit A, Sec. 10,
T-21-S, R-1-W,
Bond No. 2616668

Dear Ms. Miller:

The Oil Conservation Division hereby approves release of
the above-captioned geothermal well bond effective
November 2, 1989.

Sincerely,


WILLIAM J. LEMAY,
Director

dr/

cc: Oil Conservation Division
Santa Fe District Office

Mr. Thomas F. Ryan
2804 W. Union
Las Cruces, New Mexico 88005

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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.
NM 34793

7. Unit Agreement Name
N/A

8. Farm or Lease Name
NKH

9. Well No.
RYAN #2

10. Field and Pool, or Wildcat
RADIIUM SPRINGS

12. County
DONA ANA

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
THOMAS F. RYAN

3. Address of Operator
2804 W. UNION, LOS CRUCES, NM 88005

4. Location of Well
UNIT LETTER A LOCATED 1153.34 FEET FROM THE NORTH LINE
AND 976.66 FEET FROM THE EAST LINE OF SEC. 10 TWP. 21S RGE. 1W NMPM

19. Proposed Depth
< 300'

19A. Formation
TERTIARY VOLCANICS

20. Rotary or C.T.
ROTARY

21. Elevations (Show whether DF, RT, etc.)
4050

21A. Kind & Status Plug. Bond

21B. Drilling Contractor
LARSON - LARRY JOHNSON

22. Approx. Date Work will start
11/86

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
<u>9 7/8 INCHES</u>	<u>7 O.D. INCHES</u>	<u>17#</u>	<u>80</u>	<u>N20</u>	<u>SURFACE</u>

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.

Thomas F. Ryan Title OPERATOR Date 13 Nov 1986

APPROVED BY Roy E. Johnson TITLE DISTRICT SUPERVISOR DATE 12-9-86

CONDITIONS OF APPROVAL, IF ANY:

GEOHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

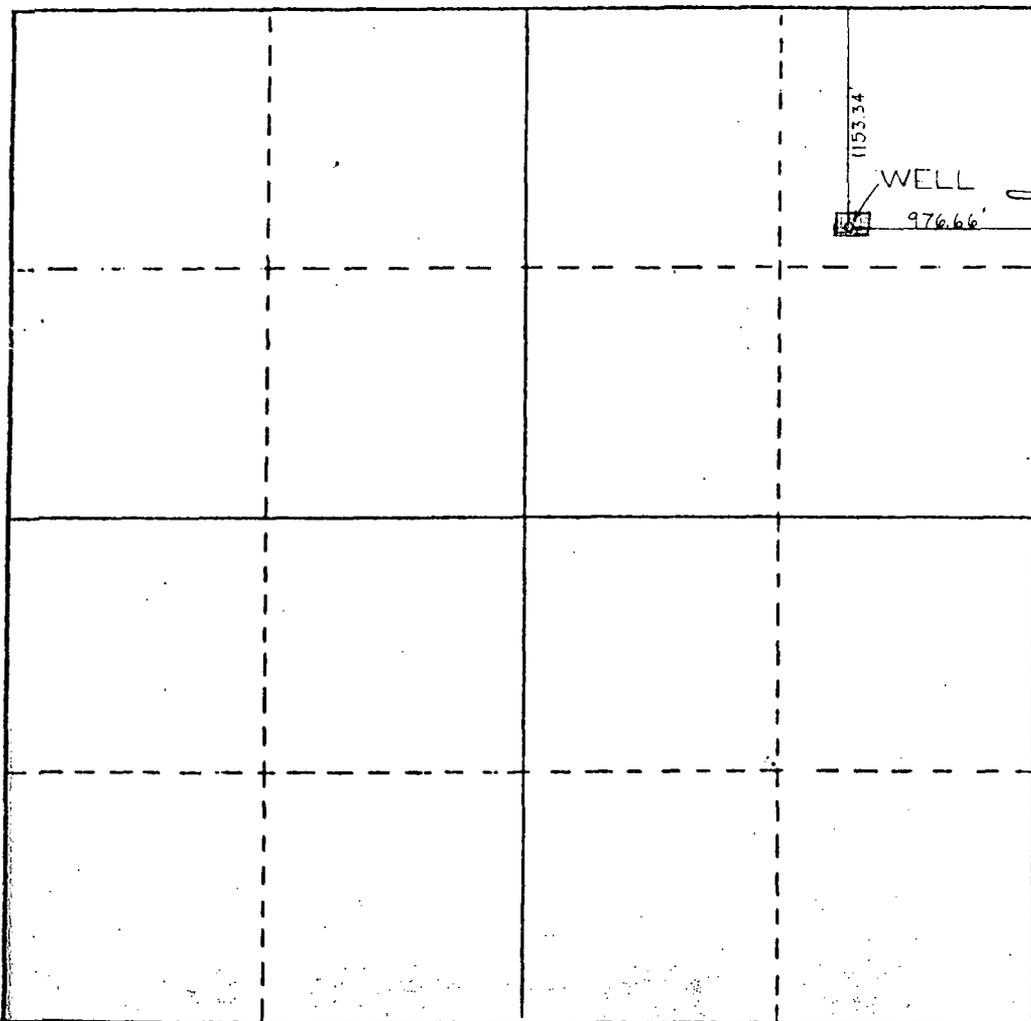
Operator THOMAS F. RYAN		Lease NKH NM 34793		Well No. RYAN-002
Unit Letter A	Section 10	Township 21 SOUTH	Range 1 WEST	County DONANA
Actual Footage Location of Well: 1153.34 feet from the NORTH line and 976.66 feet from the EAST line				
Ground Level Elev. 4050	Producing Formation TERTIARY VOLCANICS	Pool RADIUM SPRINGS	Dedicated Acreage: 1.0 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? **N/A**

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

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

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



CERTIFICATION

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

Thomas F. Ryan

Name
THOMAS F. RYAN

Position
OPERATOR

Company

Date
13 Nov 1986

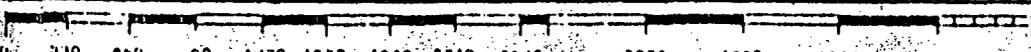
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Orville K. Mather

Date Surveyed
11-12-86

Registered Professional Engineer and/or Land Surveyor
ORVILLE K. MATHER, P.E.S.
MATHER, WILSON & ASSOC., INC.
NMRLS No. 6205

Certificate No.



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



December 9, 1986

TONY ANAYA
GOVERNOR

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

Mr. Thomas F. Ryan
2804 W. Union
Las Cruces, New Mexico 88005

Re: \$2,000 One-Well Low-Temperature
Geothermal Observation Well Bond
Thomas F. Ryan, Principal
Ryan Well No. 2, Unit A, Sec. 10,
T-21-S, R-1-W; Bond No. 2616668

Dear Mr. Ryan:

The Oil Conservation Division hereby approves the
above-captioned one-well low-temperature geothermal bond
effective December 8, 1986.

Sincerely,

A handwritten signature in cursive script, appearing to read "R. L. Stamets".

R. L. STAMETS,
Director

dr/

cc: Oil Conservation Division
Santa Fe, New Mexico