

**GTLT - \_\_\_\_\_ 5 \_\_\_\_\_**

**31&32-24S-19W  
Amax Exploration, Inc.  
(Hidalgo County)**

**Cockrell Well 1-H; GTR-6 1-J  
(PA) & GTR-6 2-P (PA)**

*To file H-31-245-19w*

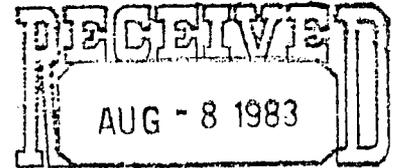
# AMAX EXPLORATION, INC.

A SUBSIDIARY OF AMAX INC.

1707 COLE BOULEVARD • GOLDEN, COLORADO 80401 • (303) 234-9020 • TELEX: 45-556

GOVERNMENTAL AFFAIRS

August 4, 1983



OIL CONSERVATION DIVISION  
SANTA FE

Mr. Carl Ulvog  
Chief Geologist  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87501

Dear Carl:

Thank you for extending AMAX's permit for Well No. 55 until November 1, 1983.

With regard to the Cockrell well at AMAX's Animas project, there are no plans to re-enter the Cockrell well. Thus, the case file for the well can be closed. Let me know if there is any documentation necessary to complete the file.

Very truly yours,

AMAX EXPLORATION, INC.

  
Joyce Emerson  
Manager of Government Relations

JE/ac

7-15-83

# Memo

From

CARL ULVOG

Chief Geologist

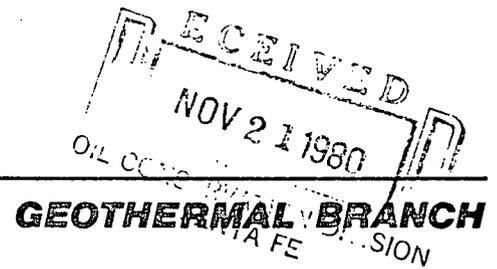
To Amex Expl., Inc  
Joyce Emerson

Has Amex reached a decision regarding the Cockrell re-entry? This is the Animas Project 672, originally approved on 5/22/80.

It seems I recall talking to Carolyn Holtgrewe about this some time ago - after the attached was received - and there was then some thought being given to going back in the Cockrell well.

What is plan now? If no plan to re-enter, can we close file?

CU



November 18, 1980

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

RE: AMAX Exploration, Inc.'s Drilling activities under "Application for Permit to Drill, Deepen, or Plug Back Geothermal Resources Well" dated February 15, 1980 - Animas Project (672) Hole Nos. 672-206, 672-225, 672-227 and 672-231

Dear Mr. Ulvog:

This letter is written to inform you about AMAX Exploration, Inc.'s drilling activities to date at the Animas Project in Hidalgo County, New Mexico.

Enclosed is Table I indicating the following drilling information for each hole listed:

- 1) Hole number and location
- 2) Elevation at drill site
- 3) Land status at drill site
- 4) Commencement and completion dates
- 5) Total depth and method of drilling

Please be advised that this letter does not constitute completion and abandonment notification. Notices of Completion will be filed at a later date after final temperature measurements have been completed, the holes abandoned, and the reclamation activities carried out.

AMAX Exploration, Inc. requests that the case file for the remainder of the holes permitted under the above-referenced permit by the New Mexico Oil Conservation Commission be left open.

If I can be of further assistance concerning our drilling activities at the Animas Project, please contact me at your earliest convenience.

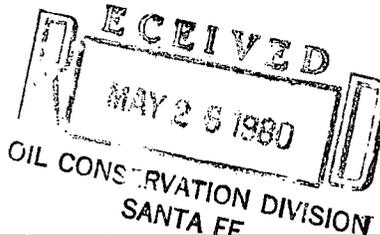
Sincerely,

AMAX EXPLORATION, INC.

*Carolyn J. Holtgrewe*

Carolyn J. Holtgrewe  
Permit Assistant

CJH/bsw  
Enclosure



**GEOTHERMAL BRANCH**

May 22, 1980

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

RE: Application for Permit to Drill, Deepen, or Plug-Back  
Geothermal Resources Well for re-entry into  
Cockrell Well No. 1, (AMAX Exploration, Inc: Animas  
Project - Project No. 672).

Dear Mr. Ulvog:

With regard to our telephone conversation of May 21, 1980, it is my understanding that AMAX Exploration, Inc. does need to obtain a permit from the New Mexico Oil Conservation Commission to re-enter the Cockrell Well No. 1. As we discussed, I will disregard the letter from Mr. Leslie A. Clements, dated May 8, 1980, which stated that "it is not necessary to be permitted by the Oil Conservation Division on Federal leases." As you indicated, I am sure that you will make every attempt to issue this permit as soon as possible. We appreciate your prompt assistance with this matter.

As we also discussed during our telephone conversation, if we decide to drill through the cement plug at 0' to 50' and the cement plug at 3,500' to 3,600', we will be required to cement back both plugs.

If I can be of further assistance, please do not hesitate to call.

Sincerely,

*Wendy E. Merrill*

Wendy E. Merrill  
Permit Coordinator

cc: Harry Olson  
Dean Pilkington  
Andy Pfaff  
Chris Tower



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

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

May 8, 1980

Amax Exploration, Inc.  
7100 West 44th Avenue  
Wheat Ridge, Colorado 80033

Attention: Wendy E. Merrill  
Permit Coordinator

Dear Wendy:

In regards to our telephone conversation of this date, it is not necessary to be permitted by the Oil Conservation Division on Federal leases.

If we can be of further assistance, please do not hesitate to call.

Very truly yours,

LESLIE A. CLEMENTS  
Oil & Gas Inspector

LC/og

*5/21/80: Via Telephone - To Merrill: Ignore this letter.  
OCD will issue permit (private surface) on condition that  
all plugs drilled out will be replaced. C.U.*

**GEOTHERMAL BRANCH**

April 22, 1980

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

RE: Application for Permit to Drill, Deepen, or Plug Back -  
Geothermal Resources Well for re-entry into Cockrell Well No. 1.  
(AMAX Exploration, Inc: Animas Project - Project No. 672)

Dear Mr. Ulvog:

AMAX Exploration, Inc. requests permission to re-enter the Cockrell Well No. 1 in Hidalgo County, New Mexico. Pursuant to Rule 102 - Drilling Permit to Drill, Deepen, or Plug Back - Geothermal Resources Well (Form G-101), the following information is submitted in quintuplicate:

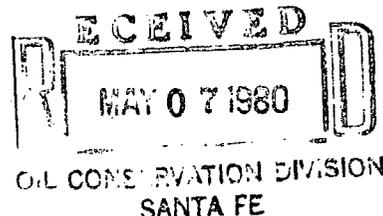
1. Application for Permit to Drill, Deepen, or Plug Back - Geothermal Resources Well (Form G-101).
2. Geothermal Resources Well Location and Acreage Dedication Plat (Form G-102).
3. Vicinity map displaying drill site location, site access, topography, cultural features, etc.
4. \$10,000 Multiple-Well Geothermal Exploratory, Development, Injection, or Disposal Well Bond.
5. Proof of valid agreement which allows entry and use on private land.

If I can be of further assistance in explaining AMAX Exploration, Inc.'s proposed drilling activities, please do not hesitate to call.

Sincerely,

*Wendy E. Merrill*

Wendy E. Merrill  
Permit Coordinator



cc: Harry Olson  
Dean Pilkington  
Andy Pfaff  
Chris Tower

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	0	1
N.M.B.M.	1	
U.S.G.S.	1	
Operator	1	
Land Office		
USBLM	1	

5. Indicate Type of Lease  
STATE        FEE   
5.a Lease No.  
NM 7601

1a.  of Work Drill  Re-enter 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  
N/A

2. Name of Operator  
AMAX Exploration, Inc.

9. Well No.  
Cockrell Well #1

3. Address of Operator  
7100 W. 44th Avenue, Wheat Ridge, CO 80033

10. Field and Pool, or Wildcat  
Wildcat

4. Location of Well UNIT LETTER H LOCATED 1,980' FEET FROM THE North LINE  
AND 660' FEET FROM THE East LINE OF SEC. 31 TWP. T24S RGE. R19W NMPM

12. County  
Hidalgo

19. Proposed Depth  
4,900'  
19A. Formation  
Tertiary Volcanic  
20. Rotary or C.T.  
Rotary

11. Elevations (Show whether DF, RT, etc.)  
4,230' GR  
21A. Kind & Status Plug. Bond  
\$10,000 Multiple-  
21B. Drilling Contractor  
Not known at this time  
22. Approx. Date Work will start  
5/30/80

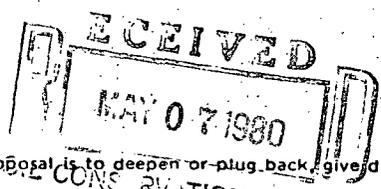
Well Geothermal Exploratory, Development, Injection or Disposal Well Bond  
PROPOSED CASING AND CEMENT PROGRAM

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

AMAX Exploration, Inc. proposes to:

- 1). Drill through cement plug at 0' to 50' and 3,500' to 3,600' using a  $\pm 6$ " bit to  $\pm 4,900'$ .
- 2). Attempt to take a water sample.
- 3). Run 2 3/8" tubing to total depth drilled.
- 4). Take temperature observation measurement.
- 5). Abandon hole by replugging from 0' to 50'.

AMAX Exploration, Inc. will use a truck or trailer mounted rig which is rated for the proposed drilling depth.



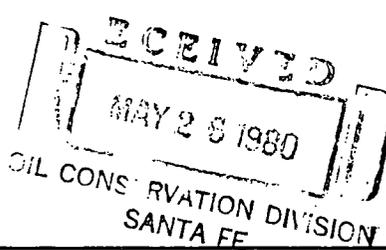
PLEASE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

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

William M. Dolan Title Attorney-in-fact; Manager, Date 4/21/80  
Geothermal Branch

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/22/80

CONDITIONS OF APPROVAL, IF ANY: See other side



**GEOTHERMAL BRANCH**

May 22, 1980

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

RE: Application for Permit to Drill, Deepen, or Plug-Back  
Geothermal Resources Well for re-entry into  
Cockrell Well No. 1, (AMAX Exploration, Inc: Animas  
Project - Project No. 672).

Dear Mr. Ulvog:

With regard to our telephone conversation of May 21, 1980, it is my understanding that AMAX Exploration, Inc. does need to obtain a permit from the New Mexico Oil Conservation Commission to re-enter the Cockrell Well No. 1. As we discussed, I will disregard the letter from Mr. Leslie A. Clements, dated May 8, 1980, which stated that "it is not necessary to be permitted by the Oil Conservation Division on Federal leases." As you indicated, I am sure that you will make every attempt to issue this permit as soon as possible. We appreciate your prompt assistance with this matter.

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Sincerely,

*Wendy E. Merrill*

Wendy E. Merrill  
Permit Coordinator

cc: Harry Olson  
Dean Pilkington  
Andy Pfaff  
Chris Tower

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

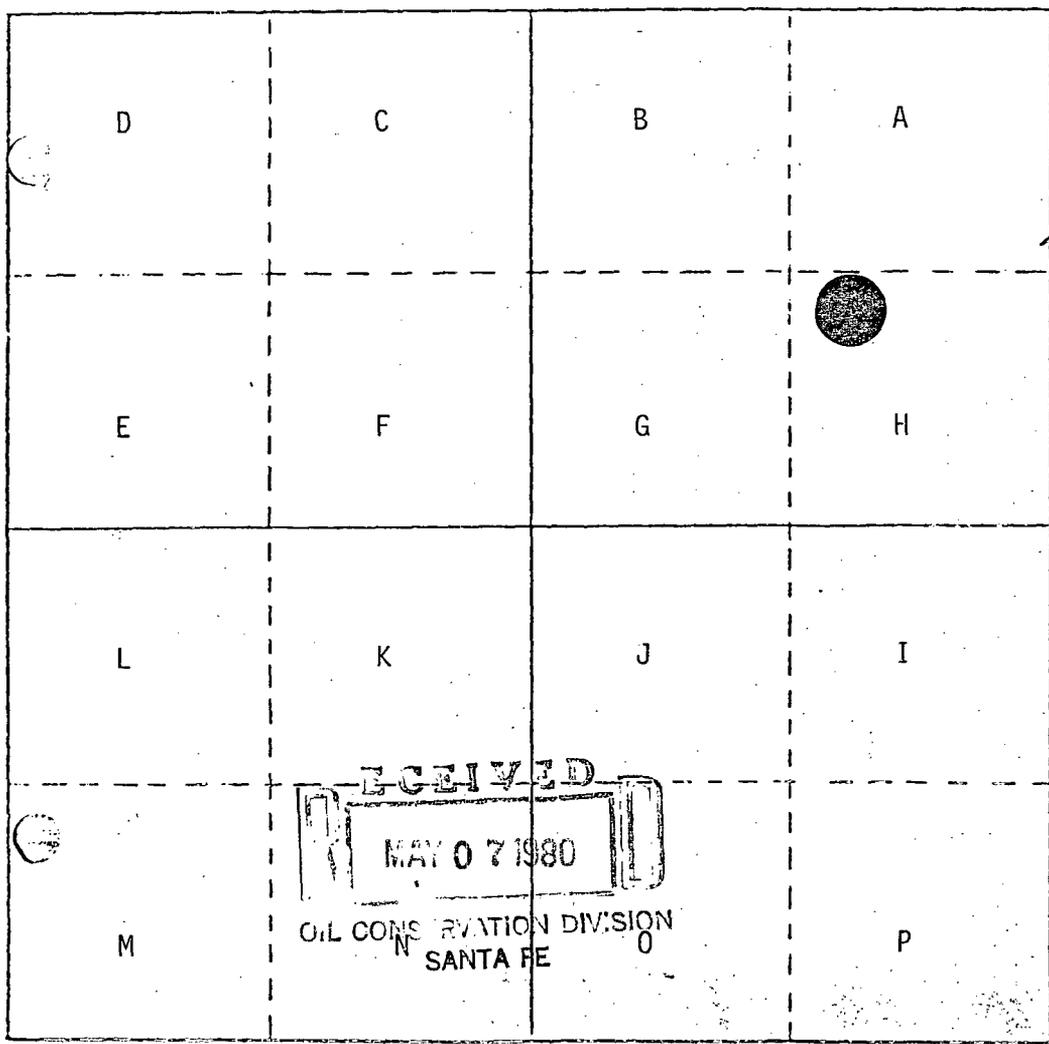
Operator AMAX Exploration, Inc.		Lease NM 7601			Well No. Cockrell Well#1
Unit Letter H	Section 31	Township T24S	Range R19W	County Hidalgo	

Actual Footage Location of Well: 1,980' feet from the North line and 660' feet from the East line					
Ground Level Elev. 4,230' GR	Producing Formation N/A	Pool N/A	Dedicated Acreage: N/A Acres		

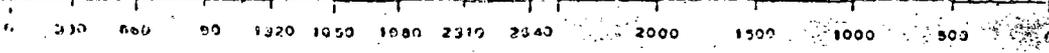
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. N/A
  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A
  3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? 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.



CERTIFICATION	
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>	
Name	William M. Dolan
Position	Attorney-in-fact Manager, Geothermal Br.
Company	AMAX Exploration, Inc.
Date	4/21/80
<i>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.</i>	
Date Surveyed	N/A
Registered Professional Engineer and/or Land Surveyor	
Certificate No.	



RECEIVED  
MAY 5 1980  
E & ME DIVISION

April 24, 1980

**GEOHERMAL BRANCH**

CERTIFIED MAIL #0193891  
RETURN RECEIPT REQUESTED

Mr. Sidney O. Wright  
P.O. Box 246  
Animas, New Mexico 88020

Dear Mr. Wright:

Further to our telephone conversation of Thursday, April 24, 1980, I am enclosing a Surface Entry Agreement and a map of the Animas area indicating the Cockrell well, located on your property and our proposed access road to the well.

I would be very grateful if you and Mrs. Wright would sign the Entry Agreement and return it to my attention in the enclosed envelope at your earliest convenience.

It is envisaged that AMAX will be in the Animas area in late May or early June, but I will inform you by phone when we plan to visit the well located on your property.

Thank you very much for your cooperation in this matter, it is greatly appreciated.

I remain

Yours Truly,

*Paul W. Greaves*

Paul W. Greaves  
Property Manager

PWG/cjb

Enclosure

SURFACE ENTRY AGREEMENT

THIS AGREEMENT, made this \_\_\_\_\_ day of \_\_\_\_\_, AD 19\_\_\_\_, by and between Sidney O. Wright and Ruth Wright, hereinafter known as the Owners, and AMAX Exploration, Inc., A Delaware Corporation, hereinafter known as the Prospector, WITNESSETH:

1) For and in consideration of the execution of this Surface Entry Agreement and other valuable consideration the receipt of which is hereby acknowledged, the Owners do hereby give and grant unto the Prospector the exclusive right and privilege to enter in and upon the following described property for the sole purpose of ingress and egress.

T24S, R19W

Sec. 31: E $\frac{1}{2}$

All situate in Hidalgo County, New Mexico.

2) Prospector agrees to pay fair market value for any and all damage of any nature whatsoever caused by its operations and to hold harmless the Owners against any and all claims for damages incident to their operations and agrees to pay attorney's fees if suit is necessary.

3) This agreement is valid for 360 days from the date above written.

IN WITNESS WHEREOF, the undersigned have set their hand and seal the day first above written.

OWNER:

*Sidney O. Wright*  
*Ruth Wright*

PROSPECTOR: AMAX Exploration, Inc.

By: \_\_\_\_\_

William M. Dolan  
Attorney-in-Fact

WITNESS: \_\_\_\_\_

RECEIVED  
MAY 5 1980  
E & ME DIVISION

April 24, 1980

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OWNER: *Sidney O. Wright*  
*Ruth Wright*

PROSPECTOR: AMAX Exploration, Inc.

By: \_\_\_\_\_  
William M. Dolan  
Attorney-in-Fact

WITNESS: \_\_\_\_\_  
\_\_\_\_\_

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E & ME DIVISION

April 24, 1980

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*Sidney O. Wright*  
*Ruth Wright*

PROSPECTOR: AMAX Exploration, Inc.

By:

William M. Dolan  
Attorney-in-Fact

WITNESS:

\_\_\_\_\_

\_\_\_\_\_

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MAY 5 1980  
E & ME DIVISION

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*Ruth Wright*

PROSPECTOR: AMAX Exploration, Inc.

By: \_\_\_\_\_  
William M. Dolan  
Attorney-in-Fact

WITNESS: \_\_\_\_\_

\_\_\_\_\_

8/12/83

# Memo

*From*

CARL ULVOG

*Chief Geologist*

*To*

*Roy -*

*OK to close out this  
file. (See correspondence  
in folder.)*

*CU*

NO. OF COPIES RECEIVED	3
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   
 State Lease No. GTR-006

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM G-101) FOR SUCH PROPOSALS.)

1. Type of Well Geothermal Producer <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/>	Temp Observation <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name NA
2. Name of Operator AMAX Exploration, Inc.		8. Form of Lease Name NA
3. Address of Operator 4704 Harlan Street, Denver, Colorado 80212		9. Well No. 1
4. Location of Well UNIT LETTER <u>J</u> <u>2000</u> FEET FROM THE <u>South</u> LINE AND <u>2000</u> FEET FROM THE <u>East</u> LINE, SECTION <u>31</u> TOWNSHIP <u>24S</u> RANGE <u>19W</u> NMPM.		10. Field and Pool, or Wildcat NA
15. Elevation (Show whether DF, RT, <u>GR</u> , etc.) 4200' ground level		12. County Hidalgo

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 AND ABANDONMENT <input checked="" type="checkbox"/>
FULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER Completion and Abandonment Information <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) PER RULE 203.

Method of Completion

After the drill hole is completed and the drill rods removed from the hole, a PVC pipe of approximately 2.54cm (1") in outside diameter which has been capped on the bottom is inserted into the hole. The pipe is filled with water and capped. The space around the intruded pipe is then back-filled with drill cuttings. The drilling program was completed on November 6, 1976

Abandonment Procedure

The PVC pipe is cut off below ground level. The upper 3 meters (10 feet) is filled with cement. Any remaining depression is filled with soil and the area is raked to restore the site to its original appearance and contour. All drilling related refuse is removed and properly disposed of. Abandonment of hole occurred between December 16 and December 18, 1976.

Order No. R-4860  
 Exhibit No. D

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

SIGNED Harry J. Cason TITLE Managing Geologist, Geothermal DATE January 5, 1976

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/25/77

CONDITIONS OF APPROVAL, IF ANY

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

RECEIVED  
JAN 10 1977  
FORM G-103  
10/14/74

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H.M.B.M.	
U.S.G.S.	
Operator	
Land Office	

SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS

3. Indicate Type of Lease  
State  Federal

5. State Lease No.  
GTR-006

7. Unit Agreement Name  
NA

8. Farm or Lease Name  
NA

9. Well No.  
1

10. Field and Pool, or Wildcat  
NA

12. County  
Hidalgo

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  
AMAX Exploration, Inc.

3. Address of Operator  
4704 Harlan Street, Denver, Colorado 80212

4. Location of Well  
UNIT LETTER J, 2000 FEET FROM THE South LINE AND 2000 FEET FROM  
THE East LINE, SECTION 31 TOWNSHIP 24S RANGE 19W NMPM.

15. Elevation (Show whether DF, RT, GD, etc.)  
4200' ground level

18. 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 OPER. <input type="checkbox"/>	PLUG AND 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 Completion and Abandonment Information <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) PER RULE 201.

Method of Completion

After the drill hole is completed and the drill rods removed from the hole, a PVC pipe of approximately 2.54cm (1") in outside diameter which has been capped on the bottom is inserted into the hole. The pipe is filled with water and capped. The space around the intruded pipe is then back-filled with drill cuttings. The drilling program was completed on November 6, 1976

Abandonment Procedure

The PVC pipe is cut off below ground level. The upper 3 meters (10 feet) is filled with cement. Any remaining depression is filled with soil and the area is raked to restore the site to its original appearance and contour. All drilling related refuse is removed and properly disposed of. Abandonment of hole occurred between December 16 and December 18, 1976.

Order No. R-4860  
Exhibit No. D

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

SIGNED Harry J. Cason TITLE Managing Geologist, Geothermal DATE January 5, 1976

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/25/77

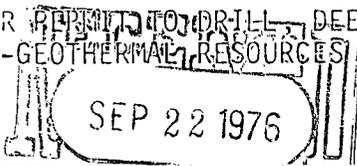
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Land Office	/

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

Form G-101

APPLICATION FOR PERMITS TO DRILL, DEEPEN,  
OR PLUG BACK---GEOHERMAL RESOURCES WELL



5A. Indicate Type of Lease  
STATE  FEDERAL

5. State Lease No.  
GTR-006

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

7. Unit Agreement Name  
NA  
8. Farm or Lease Name  
NA

2. Name of Operator  
AMAX Exploration, Inc.

9. Well No.  
1

3. Address of Operator  
4704 Harlan Street, Denver, CO 80212

10. Field and Pool, or Wildcat  
NA

4. Location of Well  
UNIT LETTER ~~#~~ J LOCATED 2000 FEET FROM THE South LINE  
AND 2000 FEET FROM THE East LINE OF SEC. 31 TWP. 24S RGE. 19W NMPM

12. County  
Hidalgo

19. Proposed Depth < 500 feet	19A. Formation Alluvium or Tertiary Volcanics	20. Rotary or C.T. Rotary
21. Elevation: (Show whether DF, RT, etc.) 4200' ground level	21A. Kind & Status Plug. Bond multiple	22. Approx. Date Work will start Oct. 1, 1976

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4 3/4 to 6 inch diameter	1" in outside diameter PVC pipe	5 ounces	total depth	NA	NA

Drilling of one (1) geothermal hole to depths not to exceed 500 feet. A 1 inch in outside diameter PVC pipe capped on the bottom will be inserted into the hole to total depth. The hole will be backfilled with cuttings. The inserted PVC pipe is then filled with water and the system allowed to reach equilibrium with the surrounding strata. Temperature measurements will be taken from the holes over the ensuing months.

IN THE EVENT WELL-BORE EXTENDS BELOW FRESH WATER SANDS, OPERATOR AGREES TO EITHER SET CASING OR PLUG BACK HOLE TO PROTECT SUCH ACOUIFERS. UPON CONCLUSION OF TEMPERATURE OBSERVATION PERIOD WELL IS TO BE PLUGGED WITH CEMENT FROM SURFACE TO TEN FEET OF DEPTH OR GREATER.

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 BLOW OUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title Manager, Geothermal Exploration Date 9-20-76

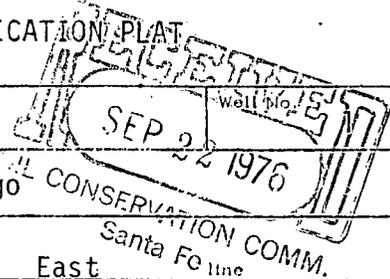
(This space for State Use)

APPROVED BY Carl Ulogg TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/24/76

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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



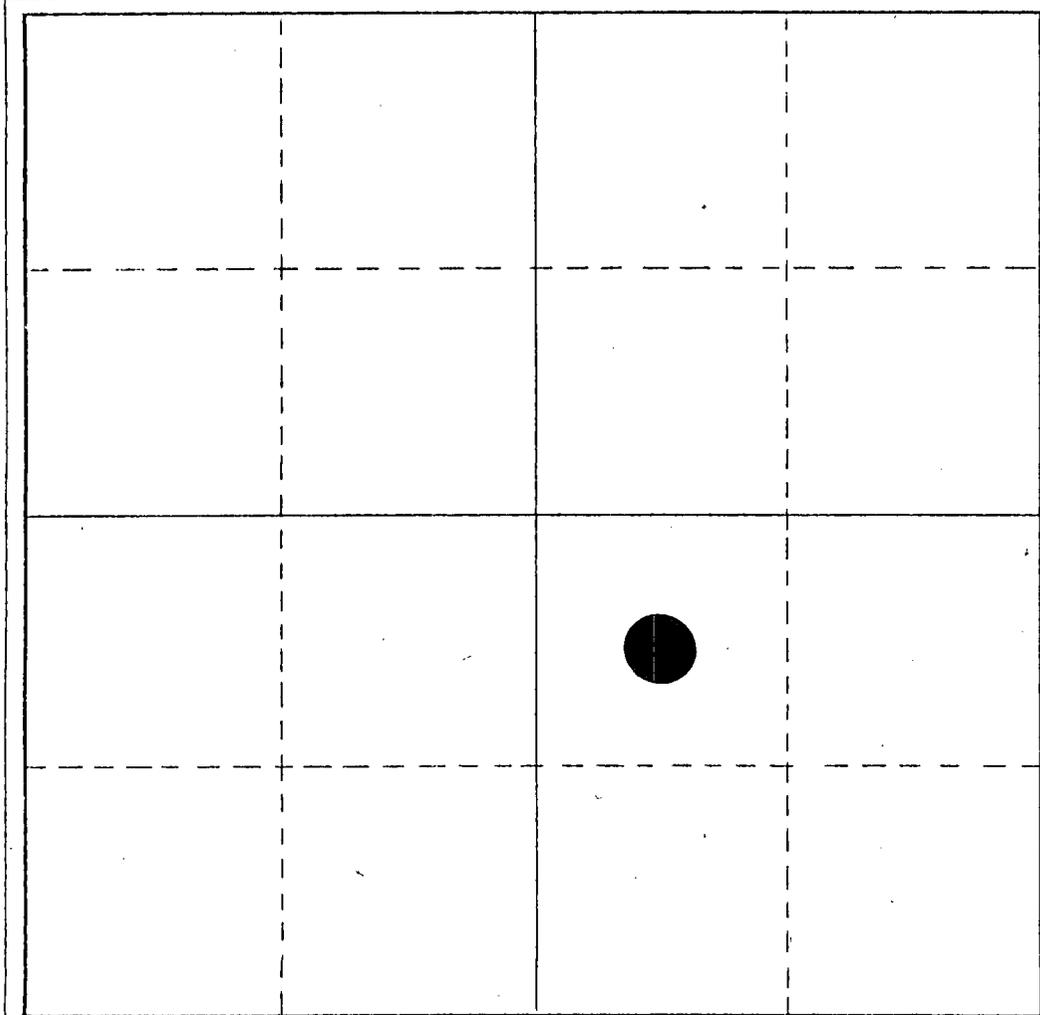
Operator <b>AMAX Exploration, Inc.</b>		Lease <b>GTR-006</b>	
Unit Letter <b>NA</b>	Section <b>31</b>	Township <b>24S</b>	Range <b>19W</b>
Actual Entrance Location of Well: <b>2000</b> feet from the <b>South</b> line and <b>2000</b> feet from the <b>East</b> line		County <b>Hidalgo</b>	
Ground Level Elev. <b>4200'</b>	Producing Formation <b>NA</b>	Pool <b>NA</b>	Dedicated Acreage: <b>NA</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. **NA**
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). **NA**
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? **NA**

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.

*[Handwritten Signature]*

Name  
**William M. Dolan**

Position  
**Manager, Geothermal Exploration**

Company  
**AMAX Exploration, Inc.**

Date  
**9-20-76**

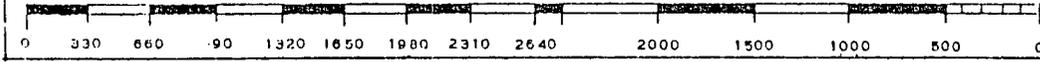
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**NA**

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

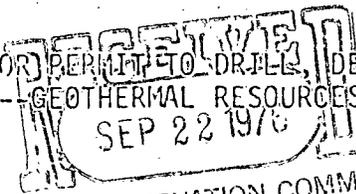
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NEW MEXICO OIL CONSERVATION COMMISSION  
P. O. Box 2088, Santa Fe 87501

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



Form G-101

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/>
5. State Lease No. GTR-006
7. Unit Agreement Name NA
8. Farm or Lease Name NA
9. Well No. 1
10. Field and Pool, or Wildcat NA
12. County Hidalgo
19. Proposed Depth < 500 feet
19A. Formation Alluvium or Tertiary Volcanics
20. Rotary or C.T. Rotary
21. Elevation: (Show whether D.F., RT, etc.) 4200' ground level
21A. Kind & Status Plug. Bond multiple
21B. Drilling Contractor
22. Approx. Date Work will start Oct. 1, 1976

1a. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Santa Plug Back <input type="checkbox"/>
1b. 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 AMAX Exploration, Inc.
3. Address of Operator 4704 Harlan Street, Denver, CO 80212
4. Location of Well UNIT LETTER NA LOCATED 2000 FEET FROM THE South LINE AND 2000 FEET FROM THE East LINE OF SEC. 31 TWP. 24S RGE. 19W NMPM
23. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4 3/4 to 6 inch diameter	1" in outside diameter PVC pipe	5 ounces	total depth	NA	NA

Drilling of one (1) geothermal hole to depths not to exceed 500 feet. A 1 inch in outside diameter PVC pipe capped on the bottom will be inserted into the hole to total depth. The hole will be backfilled with cuttings. The inserted PVC pipe is then filled with water and the system allowed to reach equilibrium with the surrounding strata. Temperature measurements will be taken from the holes over the ensuing months.

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 [Signature] Title Manager, Geothermal Exploration Date 9-20-76

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/24/76

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

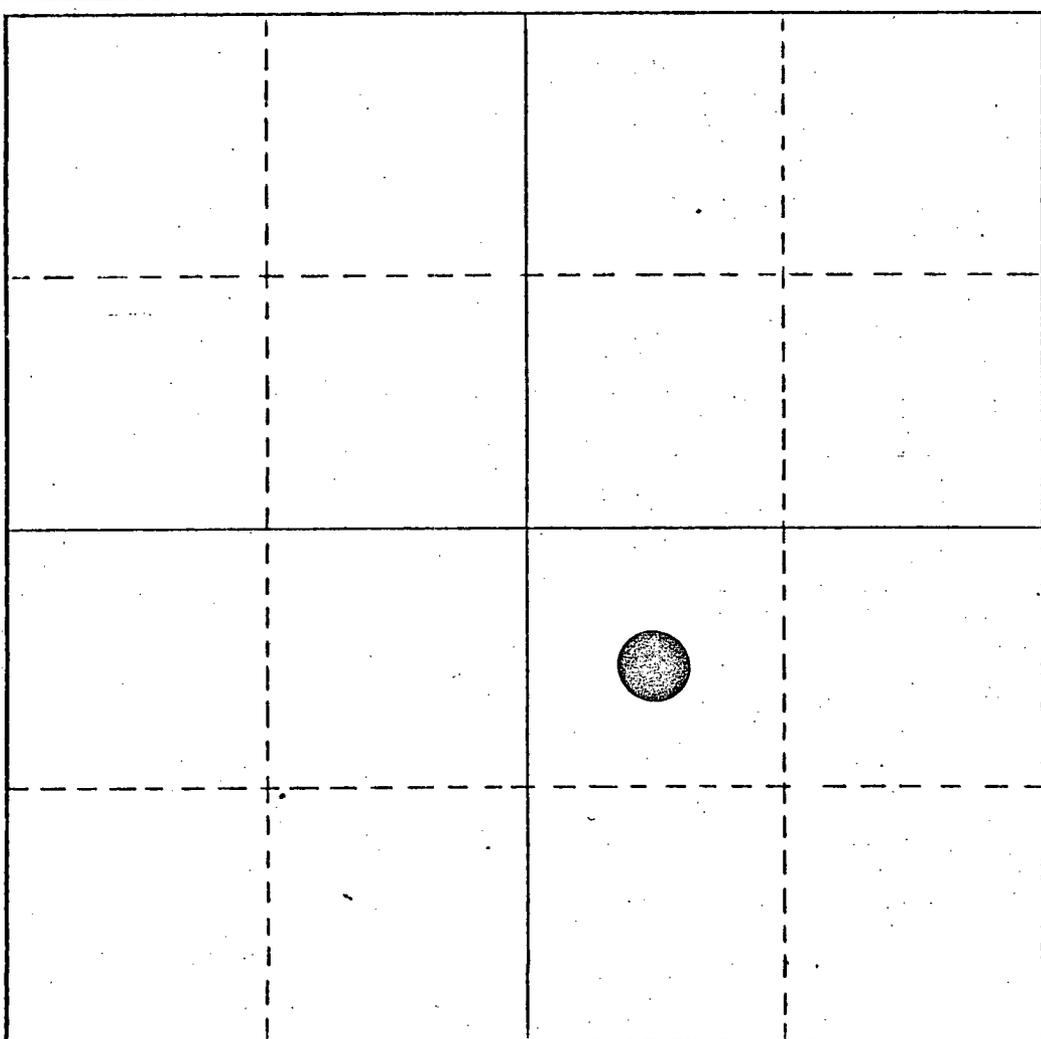
Operator <b>AMAX Exploration, Inc.</b>		Lease <b>GTR-006</b>		Well No. <b>1</b>	
Unit Letter <b>NA</b>	Section <b>31</b>	Township <b>24S</b>	Range <b>19W</b>	County <b>Hidalgo</b>	
Actual Footage Location of Well: <b>2000</b> feet from the <b>South</b> line and <b>2000</b> feet from the <b>West</b> line (Note: Stamp: DISCREETIVE SEP 22 1976)					
Ground Level Elev. <b>4200'</b>	Producing Formation <b>NA</b>	Pool <b>NA</b>	Dedicated Acreage: <b>NA</b> Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. **NA**
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). **NA**
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? **NA**

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.

*[Signature]*

Name  
**William M. Dolan**

Position  
**Manager, Geothermal Exploration**

Company  
**AMAX Exploration, Inc.**

Date  
**9-20-76**

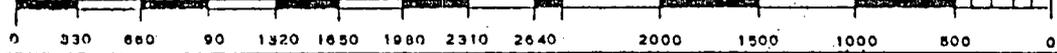
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**NA**

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



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

Form G-103  
10-7 74

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Operator	1
Land Office	1

SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS

5a. Indicate Type of Lease  
State  Federal   
5b. State Lease No.  
GTR-006

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM G-101) FOR SUCH PROPOSALS.)

1. Type of Well Geothermal Producer <input type="checkbox"/> Low-Temp Thermal <input type="checkbox"/>	Temp Observation <input checked="" type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name NA
2. Name of Operator AMAX Exploration, Inc.		8. Farm or Lease Name NA
3. Address of Operator 4704 Harlan Street, Denver, Colorado 80212		9. Well No. 2
4. Location of Well UNIT LETTER <u>P</u> <u>500</u> FEET FROM THE <u>South</u> LINE AND <u>1000</u> FEET FROM THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>24S</u> RANGE <u>19W</u> NMPM.		10. Field and Pool, or Wildcat NA
15. Elevation (Show whether DF, RT, GP, etc.) 4300' ground level		12. County Hidalgo

18. 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 AND 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 <u>Completion and Abandonment Information</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) PER RULE 203.

Method of Completion

After the drill hole is completed and the drill rods removed from the hole, a PVC pipe of approximately 2.54cm (1") in outside diameter which has been capped on the bottom is inserted into the hole. The pipe is filled with water and capped. The space around the intruded pipe is then back-filled with drill cuttings. The drilling program was completed on November 6, 1976

Abandonment Procedure

The PVC pipe is cut off below ground level. The upper 3 meters (10 feet) is filled with cement. Any remaining depression is filled with soil and the area is raked to restore the site to its original appearance and contour. All drilling related refuse is removed and properly disposed of. Abandonment of hole occurred between December 16 and December 18, 1976.

Order No. R-4860  
Exhibit No. D

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

SIGNED Harry J. Cason TITLE Managing Geologist, Geothermal DATE January 5, 1977  
APPROVED BY Carl Wloog TITLE SENIOR PETROLEUM GEOLOGIST DATE 8/30/77  
CONDITIONS OF APPROVAL, IF ANY:

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

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APPLICATION FOR PERMIT TO DRILL, DEEPEN,  
OR PLUG BACK---GEOTHERMAL RESOURCES WELL  
SEP 22 1976  
OIL CONSERVATION COMM.

Form G-101

5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEDERAL <input type="checkbox"/>
5. State Lease No. GTR-006
7. Unit Agreement Name NA
8. Farm or Lease Name NA
9. Well No. 2
10. Field and Pool, or Wildcat NA
12. County Hidalgo
19. Proposed Depth <500 feet
19A. Formation Alluvium or Tertiary Volcanics
20. Rotary or C.T. Rotary
21. Elevation: (Show whether DT, RT, etc.) 4300' ground level
21A. Kind & Status Plug. Bond multiple
21B. Drilling Contractor
22. Approx. Date Work will start October 1, 1976

1a. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/>	Oil Conservation Commission
b. 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 AMAX Exploration, Inc.	
3. Address of Operator 4704 Harlan Street, Denver, CO 80212	
4. Location of Well UNIT LETTER <u>NA P</u> LOCATED <u>500</u> FEET FROM THE <u>South</u> LINE AND <u>1000</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>32</u> TWP. <u>24S</u> RGE. <u>19W</u> NMPM	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4 3/4 to 6 inch diameter	1' in outside diameter PVC pipe	5 ounces	total depth	NA	NA

Drilling of one (1) geothermal hole to depths not to exceed 500 feet. A 1 inch in outside diameter PVC pipe capped on the bottom will be inserted into the hole to total depth. The hole will be backfilled with cuttings. The inserted PVC pipe is then filled with water and the system allowed to reach equilibrium with the surrounding strata. Temperature measurements will be taken from the holes over the ensuing months.

IN THE EVENT WELL-BORE EXTENDS BELOW FRESH WATER SANDS, OPERATOR AGREES TO EITHER SET CASING OR PLUG BACK HOLE TO PROTECT SUCH ACQUIFERS. UPON CONCLUSION OF TEMPERATURE OBSERVATION PERIOD WELL IS TO BE PLUGGED WITH CEMENT FROM SURFACE TO TEN FEET OF DEPTH OR GREATER.

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 [Signature] Title Manager, Geothermal Exploration Date 9-20-76

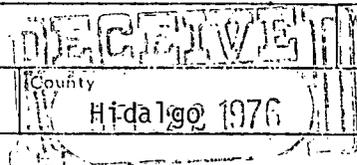
(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/24/76  
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator <b>AMAX Exploration, Inc.</b>		Lease <b>GTR-006</b>		Well No. <b>2</b>	
Unit Letter <b>NA</b>	Section <b>32</b>	Township <b>24S</b>	Range <b>19W</b>	County <b>Hidalgo 1976</b>	
Actual Footage Location of Well: <b>500</b> feet from the <b>South</b> line and <b>1000</b> feet from the <b>East</b> line					
Ground Level Elev. <b>4300'</b>	Producing Formation <b>NA</b>	Pool <b>NA</b>	Santa Fe		Dedicated Acreage: <b>NA</b> Acres

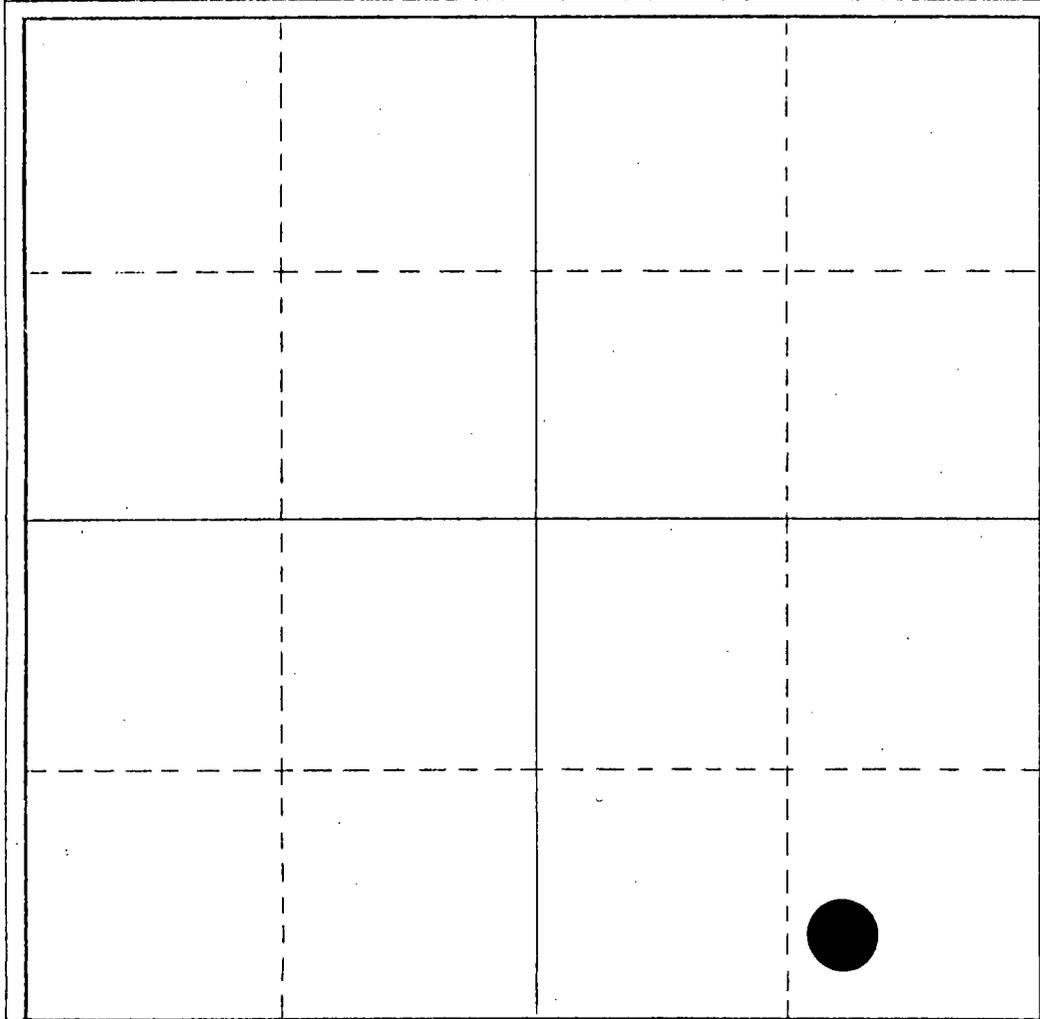


1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. **NA**
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). **NA**
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? **NA**

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.

*[Signature]*

Name  
**William M. Dolan**

Position  
**Manager, Geothermal Exploration**

Company  
**AMAX Exploration, Inc.**

Date  
**9-20-76**

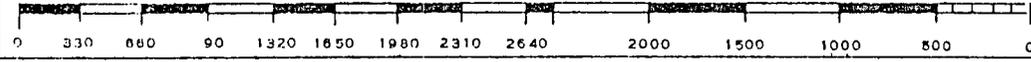
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

**NA**

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.



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

REGISTRATION Form G-101

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK---GEOTHERMAL RESOURCES WELL 22

13A. Indicate Type of Lease  
STATE  FEDERAL   
13. State Lease No.  
GTR-006

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U.S.G.S.	
Operator	
Land Office	

1a. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/>	7. Unit Agreement Name NA
b. 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"/>	8. Farm or Lease Name NA
2. Name of Operator AMAX Exploration, Inc.	9. Well No. 2
3. Address of Operator 4704 Harlan Street, Denver, CO 80212	10. Field and Pool, or Wildcat NA
4. Location of Well UNIT LETTER <u>NA</u> LOCATED <u>500</u> FEET FROM THE <u>South</u> LINE AND <u>1000</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>32</u> TWP. <u>24S</u> RCF. <u>19W</u> NMPM	12. County Hidalgo
19. Proposed Depth <500 feet	19A. Formation Alluvium or Tertiary Volcanics
20. Rotary or C.T. Rotary	
21. Elevation: (Show whether DF, RT, etc.) 4300' ground level	21A. Kind & Status Plug. Bond multiple
21B. Drilling Contractor	22. Approx. Date Work will start October 1, 1976

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4 3/4 to 6 inch diameter	1' in outside diameter PVC pipe	5 ounces	total depth	NA	NA

Drilling of one (1) geothermal hole to depths not to exceed 500 feet. A 1 inch in outside diameter PVC pipe capped on the bottom will be inserted into the hole to total depth. The hole will be backfilled with cuttings. The inserted PVC pipe is then filled with water and the system allowed to reach equilibrium with the surrounding strata. Temperature measurements will be taken from the holes over the ensuing months.

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 [Signature] Title Manager, Geothermal Exploration Date 9-20-76

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 9/24/76  
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE

DEDICATION PLAT  
 SEP 22 1976  
 Well No. 112

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

Operator AMAX Exploration, Inc.		Lease GTR-006	
Unit Letter NA	Section 32	Township 24S	Range 19W
County Hidalgo			

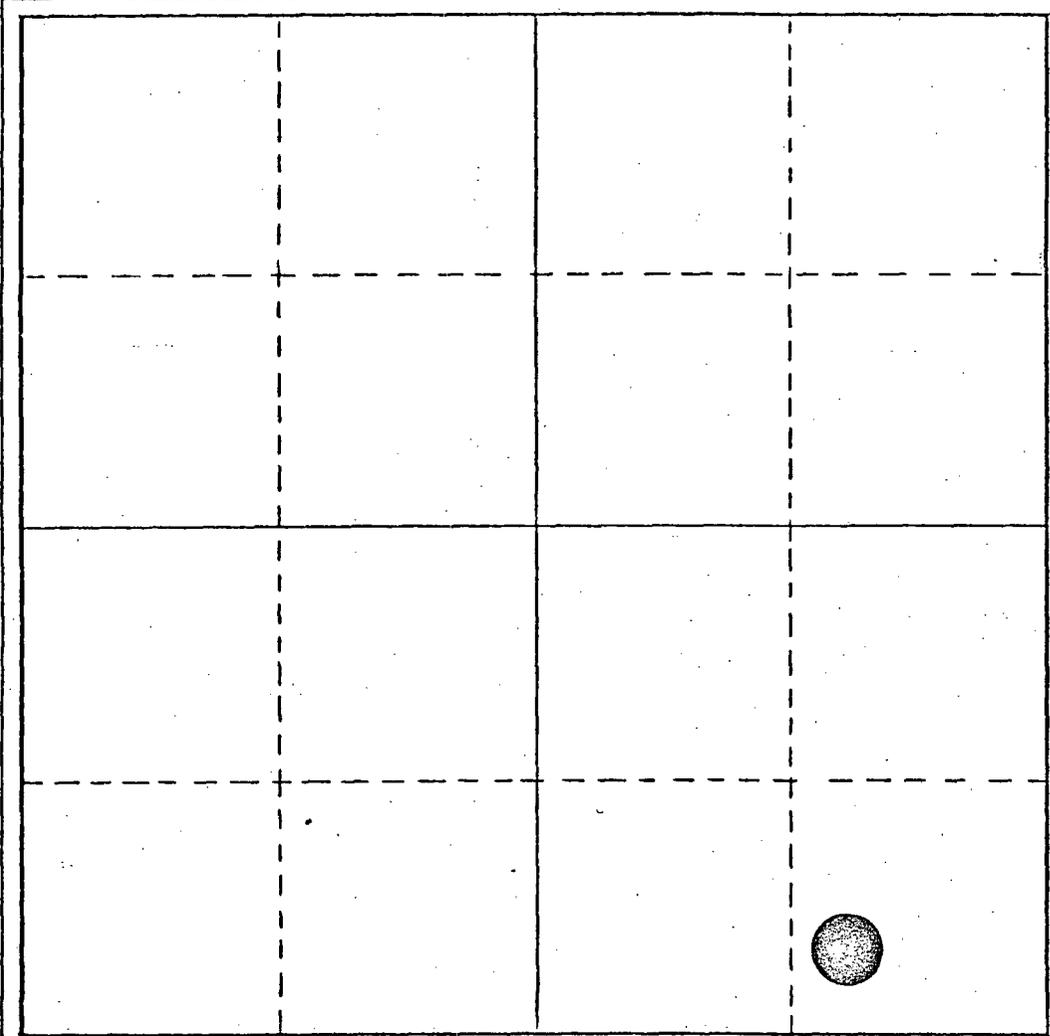
Actual Footprint Location of Well:  
 500 feet from the South line and 1000 feet from the East line

Ground Level Elev. 4300'	Producing Formation NA	Pool NA	Dedicated Acreage: NA Acres
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1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. NA
  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). NA
  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? NA
- 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.

*[Signature]*

Name  
William M. Dolan

Position  
Manager, Geothermal Exploration

Company  
AMAX Exploration, Inc.

Date  
9-20-76

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.

NA

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

