

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

**13-25S-20W  
Hidalgo County**

**672-216**



**GEOHERMAL BRANCH**

May 8, 1981

CERTIFIED MAIL #1141329  
RETURN RECEIPT REQUESTED

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. Animas Project (672), Hidalgo County,  
New Mexico

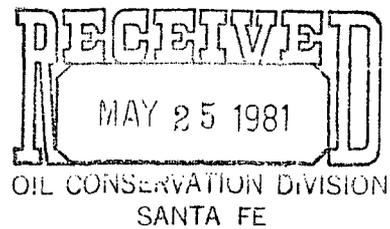
"Sundry Notices and Reports on Geothermal Resources Wells" for  
Hole Nos. 672-206 and 672-231 under permit approved February 15,  
1980 (AMAX No. NM-OC-2028)

Dear Mr. Ulvog:

This letter is written to notify you that drilling activities conducted by AMAX Exploration, Inc. under the above-referenced permit at the Animas Project in New Mexico have been completed. The holes were plugged on April 13, 1981 and proper abandonment and reclamation activities have been carried out.

The following is submitted in triplicate:

- 1) Geothermal Well Completion Report for each hole which was drilled.
- 2) Lithologic logs, including hole number, location, elevation, date drilled, method used, and gamma for each hole which was drilled.
- 3) Temperature logs for each hole which was drilled.
- 4) Exhibit A indicating Method of Completion and Abandonment Procedure.



Mr. Carl Ulvog  
May 8, 1981  
Page 2

The following holes were not drilled:

672-203	672-216	672-230
672-204	672-217	672-232
672-205	672-218	672-233
672-207	672-222	672-234
672-209	672-229	672-235
672-210		

As AMAX Exploration, Inc. anticipates no further work at these well sites, we request that the case file be closed.

If I can be of further assistance, please contact me at your earliest convenience.

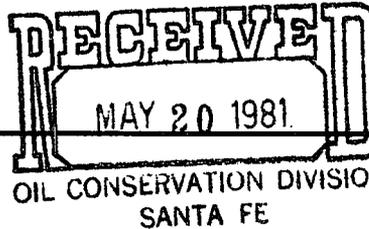
Sincerely,

AMAX EXPLORATION, INC.

A handwritten signature in cursive script that reads "Carolyn J. Holtgrewe".

Carolyn J. Holtgrewe  
Permit Assistant

CJH/bsw



OIL CONSERVATION DIVISION **GEOHERMAL BRANCH**  
SANTA FE

April 28, 1981

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

RE: Affidavit of Responsibility, Conversion to Water-Well

Dear Mr. Ulvog:

During the course of compiling information concerning rules, regulations, forms, etc., to be used in geothermal exploration operations in the state of New Mexico, I came across the above-referenced form. Please advise me when this form should be used and the section(s) to which this is referenced in the Rules and Regulations. Also, please send me ten (10) copies of this form if it is one which we are responsible for filing.

Thank you for your time and assistance.

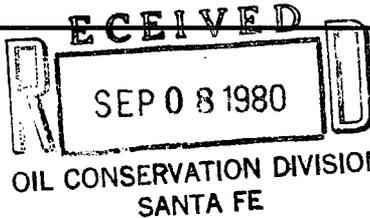
Sincerely,

AMAX EXPLORATION, INC.

*Carolyn J. Holtgrewe*  
Carolyn J. Holtgrewe  
Permit Assistant

CJH/bsw

*5/27: Talked to Holtgrewe about their  
and Cockrell well. They are trying to  
work out deal for re-entering. Otherwise no  
more gradient holes planned for now.*



**GEOTHERMAL BRANCH**

September 2, 1980

CERTIFIED MAIL #P260191949

Mr. Carl Ulvog  
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 Drilling Thermal Temperature Gradient Observation Holes to 2,000' or Less in Hidalgo County, New Mexico. (AMAX Exploration, Inc.: Animas Project - Project No. 672)

Dear Mr. Ulvog:

Pursuant to our telephone conversation on September 2, 1980, AMAX Exploration, Inc. would like to request a 90-day extension of our approved Applications for Permit to Drill, Deepen, or Plug Back - Geothermal Resources Well for:

- Hole No. 672-203
- Hole No. 672-204
- Hole No. 672-205
- Hole No. 672-206
- Hole No. 672-207
- Hole No. 672-209
- Hole No. 672-210
- Hole No. 672-216
- Hole No. 672-217
- Hole No. 672-218
- Hole No. 672-222
- Hole No. 672-229
- Hole No. 672-230
- Hole No. 672-231
- Hole No. 672-232
- Hole No. 672-233
- Hole No. 672-234
- Hole No. 672-235

The original Applications for Permit to Drill, Deepen, or Plug Back - Geothermal Resources Wells were approved on February 15, 1980 and expired on May 14, 1980. Information on these permit applications remains the same except the approximate date work will start will be some time during the last quarter of 1980.

Mr. Carl Ulvog  
September 2, 1980

Page 2

Thank you for your assistance in extending these permit applications. If I can be of further assistance in explaining AMAX Exploration, Inc.'s drilling and reclamation activities, please do not hesitate to call.

Sincerely,

AMAX EXPLORATION, INC.

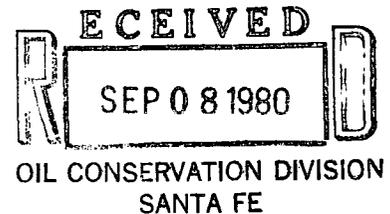
*Wendy E. Merrill*

Wendy E. Merrill  
Permit Coordinator

WEM:bsw

cc: Harry Olson  
Dean Pilkington  
Al Shenker

*9/10/80  
I gave verbal approval - cu*



*at American Motor Inn - Lordsburg  
542-3591 Rm 307*

*9-18-80 Dalg on Fred Lee - McCarty*

*11/14/80: Verbal approval to extend permits indefinitely.  
Amax drilled 4. Now evaluating. May drill some  
more and may ask for 2000' depths. CU*

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

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File	1	✓
N.M.B.M.	1	
U.S.	1	
Operator	1	
Land Office	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. NA  
AMAX Lease No. 672-3013

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

9. Well No.  
672-216  
10. Field and Pool, or Wildcat  
Wildcat

4. Location of Well UNIT LETTER N LOCATED 2,400 FEET FROM THE West LINE  
AND 175 FEET FROM THE South LINE OF SEC. 13 TWP. T25S RGE. R20W NMPM

12. County  
Hildago

19. Proposed Depth 2,000'  
19A. Formation Alluvium or Tertiary Volcanics  
20. Rotary or C.T. Rotary  
21. Elevations (Show whether DF, RT, etc.) 4,200' ground level  
21A. Kind & Status Plug. Bond \$10,000 Multiple-  
21B. Drilling Contractor Not known at this time  
22. Approx. Date Work will start 2/15/80

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

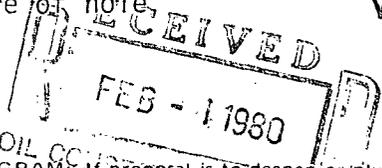
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
*9 7/8"	7"	17 pound	200'	40	Surface
*6 1/4"	1-1/4"	steel pipe	2,000'	3	

\*Hole sizes will not exceed this diameter, but may be smaller depending on bit size availability

- (1) Drill 9 7/8" hole to 200'
- (2) Run 7" casing
- (3) Cement 7" casing to surface
- (4) Drill 6 1/4" hole to 2,000'
- (5) Run 1 1/4" steel pipe to 2,000'
- (6) Cement the top 10' of the 1 1/4" pipe
- (7) Fill the 1 1/4" pipe with water
- (8) Measure temperature of hole

APPROVAL VALID FOR 90 DAYS  
PERMIT EXPIRES 5-14-80  
UNLESS DRILLING UNDERWAY

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



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.  
William M. Dolan Attorney-in-fact  
[Signature] Title Manager, Geothermal Exploration Date January 28, 1980

(This space for State Use)  
APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 2/15/80  
CONDITIONS OF APPROVAL, IF ANY:

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

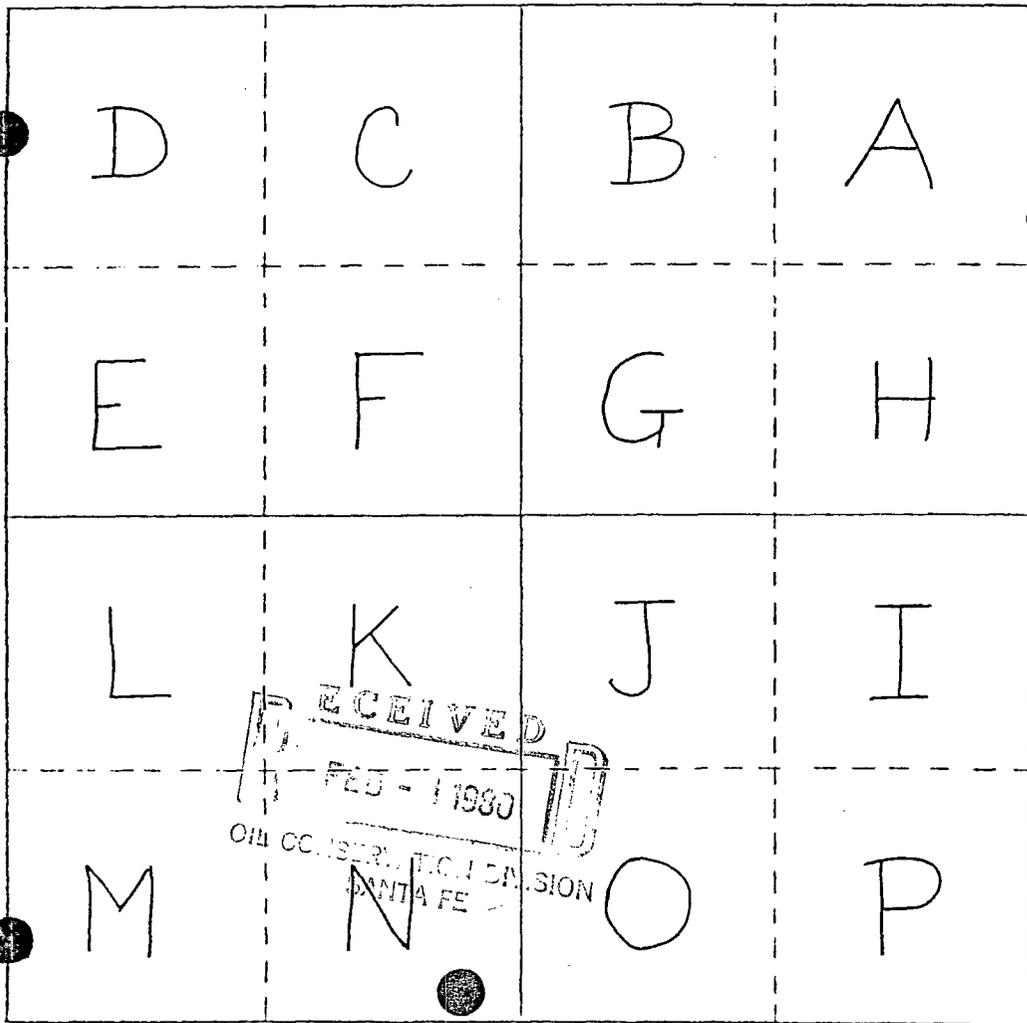
All distances must be from the outer boundaries of the Section.

Operator <b>AMAX Exploration, Inc.</b>		Lease <b>NA</b> (AMAX Fee Lease No. 672-3013)		Well No. <b>672-216</b>	
Section Letter <b>N</b>	Section <b>13</b>	Township <b>T25S</b>	Range <b>R20W</b>	County <b>Hildago</b>	
Actual Footage Location of Well: <b>2,400</b> feet from the <b>West</b> line and <b>175</b> feet from the <b>South</b> line					
Ground Level Elev. <b>4,200'</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 <b>William M. Dolan</b>
Position <b>Attorney-in-fact Manager, Geothermal Exploration</b>
Company <b>AMAX Exploration, Inc.</b>
Date <b>January 28, 1980</b>
 <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 <b>NA</b>
Registered Professional Engineer and/or Land Surveyor
Certificate No.

