

GTLT - _____5_____

**(14-36)-27S-20W
Amax Exploration, Inc.
(Hidalgo County)**

**22-J(PA); 11-I(PA) &
GTR-237-17-A(PA)**

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

October 5, 1977

C
O
P
Y
Amax Exploration, Inc.
4704 Harlan Street
Denver, Colorado 80212

Re: \$2,000 One-Well Low-Temperature
Thermal Well or Geothermal
Observation Well Bond,
Amax Exploration, Inc., Principal
Firemans Insurance Company of
Newark, New Jersey, Surety
Sec. 14, T-28-S, R-20-W
Bond No. BND 207 84 39

Gentlemen:

The Oil Conservation Commission hereby approves
release of the above-captioned one-well bond.

Very truly yours,

JOE D. RAMEY,
Secretary-Director

JDR/LT/dr

cc: Firemen's Insurance Company
of Newark, New Jersey
80 Maiden Lane
New York, New York

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

Form G-103
10-1 74

| | |
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| Operator | 1 |
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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"/> |
| 6. State Lease No. | |

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 Clayton Yarbrough | |
| 3. Address of Operator 4704 Harlan Street, Denver, Colorado 80212 | | | | 9. Well No. 22 | |
| 4. Location of Well UNIT LETTER <u>J</u> <u>2600</u> FEET FROM THE <u>South</u> LINE AND <u>2600</u> FEET FROM THE <u>East</u> LINE, SECTION <u>14</u> TOWNSHIP <u>28S</u> RANGE <u>20W</u> NMPM. | | | | 10. Field and Pool, or Wildcat NA | |
| 15. Elevation (Show whether DF, RT, <u>GR</u> , etc.) 4725' ground level | | | | 12. County Hidalgo | |

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 JOBS <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. Casen 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

Form G-103
10-1 74

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| Land Office | |

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

| | |
|--|--|
| Indicate Type of Lease | |
| State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> | |
| State Lease No. | |
| 7. Unit Agreement Name | |
| NA | |
| 8. Form or Lease Name | |
| Clayton Yarbrough | |
| 9. Well No. | |
| 22 | |
| 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.

| | | |
|--|--|---|
| 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"/> |
| 1. Name of Operator | | |
| AMAX Exploration, Inc. | | |
| 2. Address of Operator | | |
| 4704 Harlan Street, Denver, Colorado 80212 | | |
| 3. Location of Well | | |
| UNIT LETTER | J | 2600 FEET FROM THE South LINE AND 2600 FEET FROM THE East LINE, SECTION 14 TOWNSHIP 28S RANGE 20W NMPM. |

| |
|---|
| 15. Elevation (Show whether DF, RT, <u>GP</u> , etc.) |
| 4725' ground level |

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO:

| | |
|--|---|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | OTHER <input type="checkbox"/> |

SUBSEQUENT REPORT OF:

| | |
|--|--|
| REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG AND ABANDONMENT <input checked="" type="checkbox"/> |
| CASING TEST AND CEMENT JOBS <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) SEE 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
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SIGNED Harry J. Mason 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

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

RECEIVED
OCT 15 1976

Form G-TOPN COMM.

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

| |
|--|
| 5A. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/> |
| 5. State Lease No. |
| 7. Unit Agreement Name NA |
| 8. Farm or Lease Name NA |
| 9. Well No. 22 |
| 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 DF, RT, etc.) 4725' ground level |
| 21A. Kind & Status Plug. Bond single |
| 21B. Drilling Contractor Hugh M. Harris Drilling Co. |
| 22. Approx. Date Work will start- upon issuance |

| |
|---|
| 1a. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> |
| 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 St., Denver, Colorado 80212 |
| 4. Location of Well UNIT LETTER HA J LOCATED 2600 FEET FROM THE south LINE AND 2600 FEET FROM THE east LINE OF SEC. 14 TWP. 28S RGE. 20W 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" diameter | 1 inch in outside diameter PVC pipe | 5 ounce | total depth | cement upper 10 feet | |

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 ALEADOUT PREVENTER PROGRAM, IF ANY.

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

Signature: [Signature] Title: Manager, Geothermal Exploration Date: 10-12-76

(This space for State Use)

APPROVED BY: Carl Ulvog TITLE: SENIOR PETROLEUM GEOLOGIST DATE: 10/18/76

CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

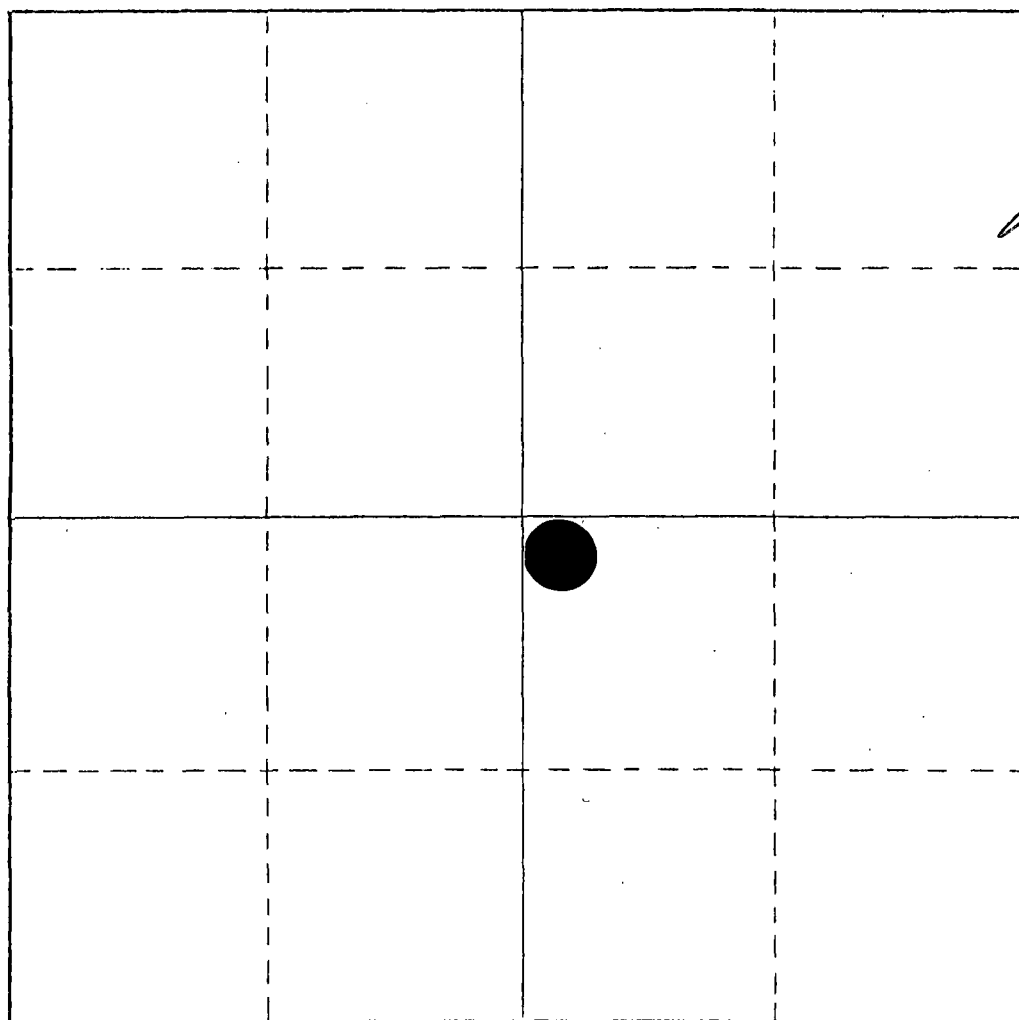
| | | | | | |
|--|----------------------|------------------------|--------------------------------------|--------------------------|---------------------------------------|
| Operator AMAX Exploration, Inc. | | | Lease privately owned land | | Well No. COMM. 22 |
| Unit Letter NA | Section 14 | Township 28S | Range 20W | County Hidalgo | |
| Actual Location of Well: 2600 feet from the south line and 2600 feet from the east line | | | | | |
| Ground Level Elev. 4725' | Producing Formation | | Pool N A | | Dedicated Acreage: NA Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name

William M. Dolan

Position

Manager, Geothermal Exploration

Company

AMAX Exploration, Inc.

Date

10-12-76

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.

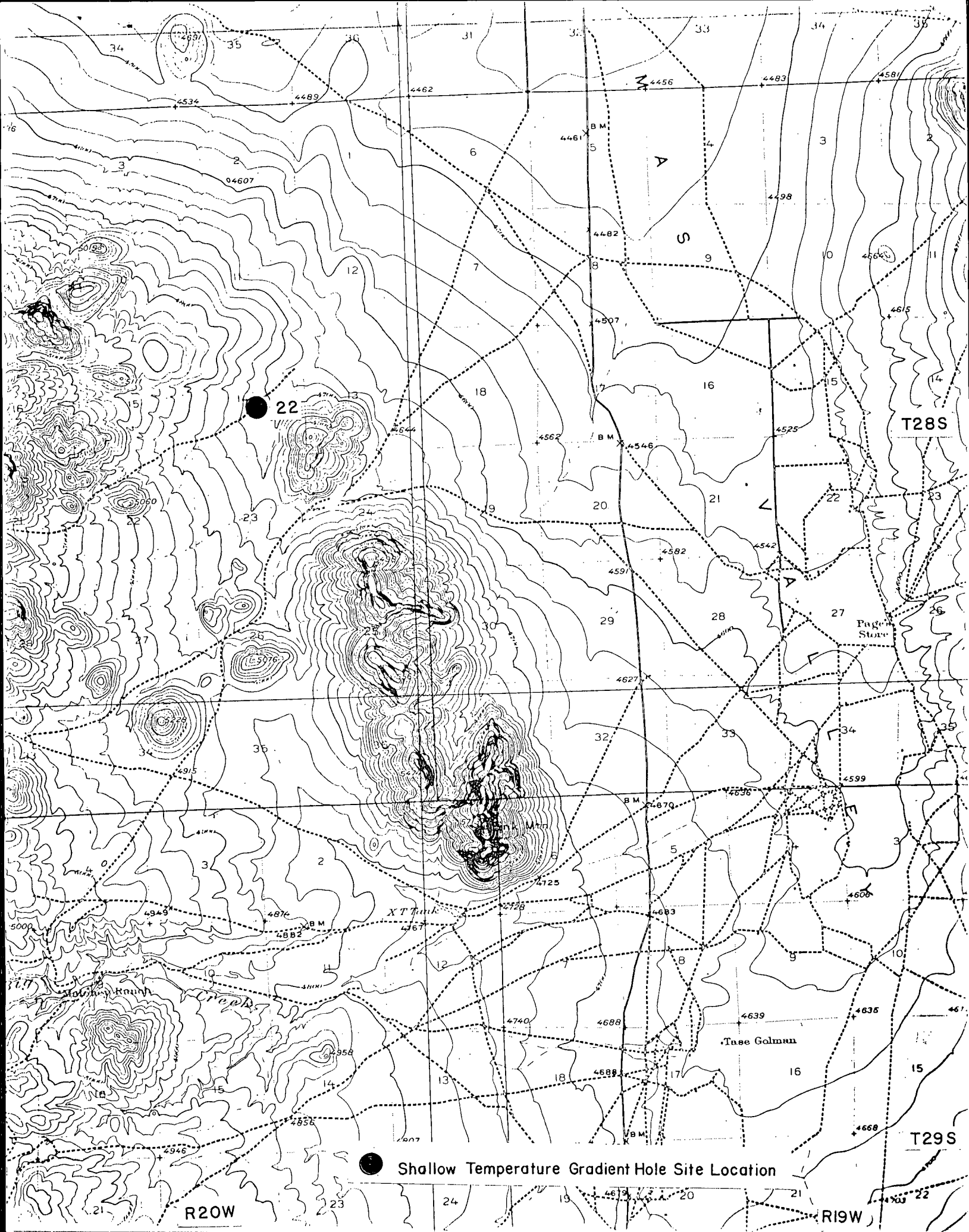
NA

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0



SHALLOW THERMAL GRADIENT DRILL HOLES

Shallow exploration thermal gradient drill holes, as their names imply, are holes which permit temperature measurements at intervals down the hole. When several such holes are drilled, a comparison of temperature data between holes is useful in helping to locate and define areas of unusually high heat.

Shallow exploratory thermal gradient drill holes are usually drilled to depths of 30 to 500 feet. The holes which AMAX wishes to drill will average approximately 300 feet in depth.

Thermal gradient holes generally are drilled with bits 4-3/4" to 6" in diameter. Water wells, by contrast, frequently are drilled with bits 8" to 12" in diameter. Consequently, the drilling of a thermal gradient hole usually has less overall impact than the drilling of a water well to comparable depth.

The equipment used to drill shallow thermal gradient drill holes consists of a light truck-mounted rotary drill rig and a water truck. The truck-mounted drill is usually set up on level ground as close as possible to existing roads. No bulldozing or leveling is required, nor is the drill dug in. The water truck is parked adjacent to the drill. Air is used to remove drill cuttings from the hole when drilling above the water table. Water mixed with drilling mud, and circulated through a portable mud tank, accomplished the same when drilling below the water table or in areas where the water table is relatively shallow. Drill cuttings from the hole are used to backfill the hole.

Up to three 170 foot holes can be drilled in one ten hour period. Deeper holes take longer. A 300 foot hole generally would require 12 to 15 hours. A 500 foot hole might take 20 to 24 hours.

After the drill hole is completed and the drill rods removed from the hole, a PVC pipe of approximately 1" in outside diameter is inserted into the hole. The pipe is capped on the bottom and is filled with water. The drill hole is then backfilled with drill cuttings. Approximately one week later, after the hole has had a chance to reach thermal equilibrium with the surrounding rock, a thermister probe is lowered into the hole and temperature measurements are made at intervals down the hole.

Once tests with the well have been completed, the PVC pipe can be cut off below ground level and the hole filled.

The impact at the drill site once the hole has been filled may consist of tire marks from the two trucks and indications of earth movement immediately over the hole.

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Operator
Land Office

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

OCT 15 1976
OIL CONSERVATION COMM.

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

Extra copy

| | | |
|--|---|---|
| 1a. Type of Work Drill [x] Deepen [] Plug Back [] | | 7. Unit Agreement Name NA |
| b. Type of Well Geothermal Producer [] Temp Observation [x] Low-Temp Thermal [] Injection/Disposal [] | | 8. Farm or Lease Name NA |
| 2. Name of Operator AMAX Exploration, Inc. | | 9. Well No. 22 |
| 3. Address of Operator 4704 Harlan St., Denver, Colorado 80212 | | 10. Field and Pool, or Wildcat NA |
| 4. Location of Well UNIT LETTER ## J LOCATED 2600 FEET FROM THE south LINE AND 2600 FEET FROM THE east LINE OF SEC. 14 TWP. 28S RCF. 20W NMPM | | 12. County Hidalgo |
| 19. Proposed Depth 500 feet | | 19A. Formation alluvium or tertiary volcanics |
| 20. Rotary or C.T. rotary | | |
| 21. Elevations (Show whether DE, RI, etc.) 4725' ground level | 21A. Kind & Status Plug. Bond single | 21B. Drilling Contractor Hugh M. Harris Drilling Co. |
| 22. Approx. Date Work will start upon issuance | | |

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" diameter | 1 inch in outside diameter PVC pipe | 5 ounce | total depth | cement upper 10 feet | |

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 ACQUIERS. UPON CONCLUSION OF TEMPERATURE OBSERVATION PERIOD WELL IS TO BE PLUGGED WITH CEMENT FROM SURFACE TO TEN FEET OF DEPTH OR GREATER.

IF 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.

Signature: [Signature] Title: Manager, Geothermal Exploration Date: 10-12-76

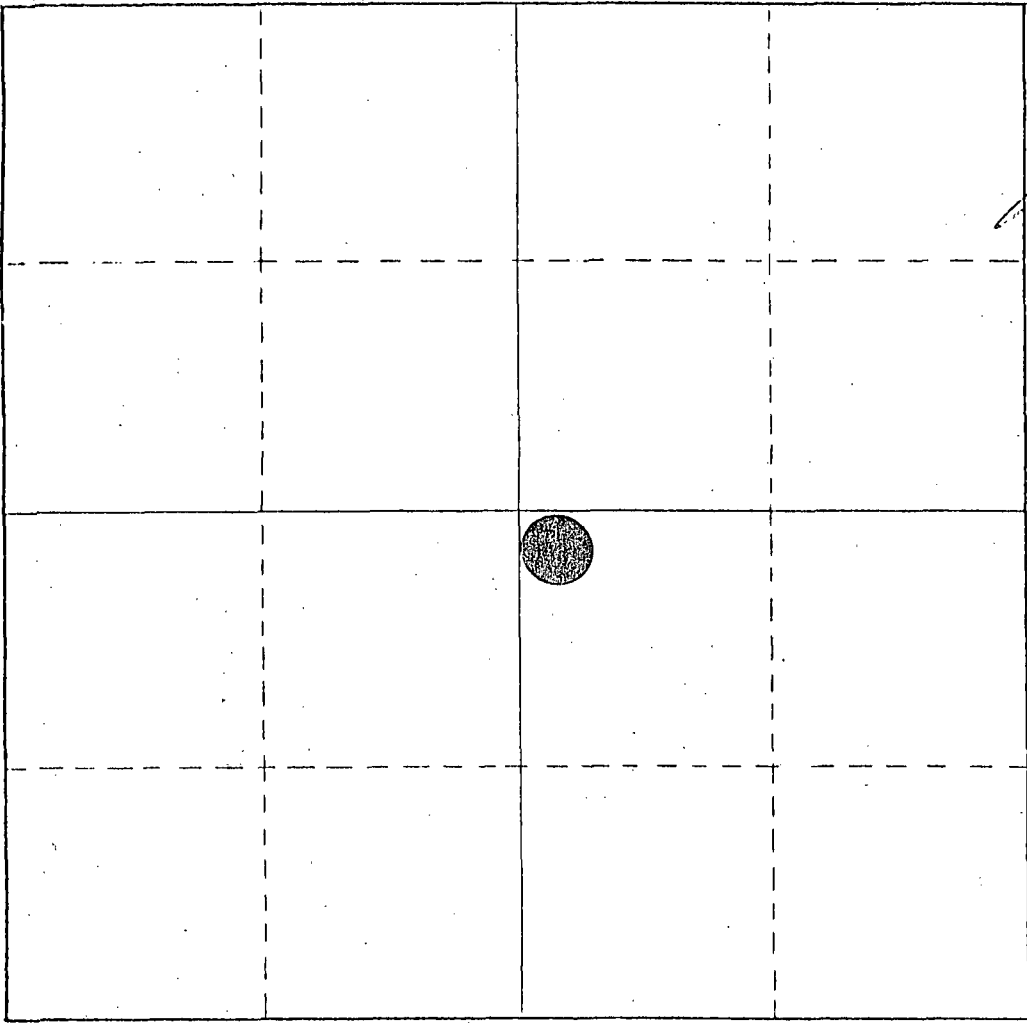
(This space for State Use)

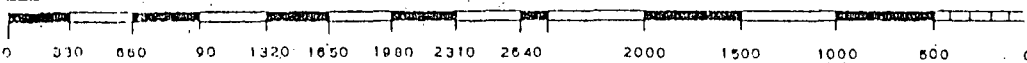
APPROVED BY: Carl Ulvog TITLE: SENIOR PETROLEUM GEOLOGIST DATE: 10/18/76

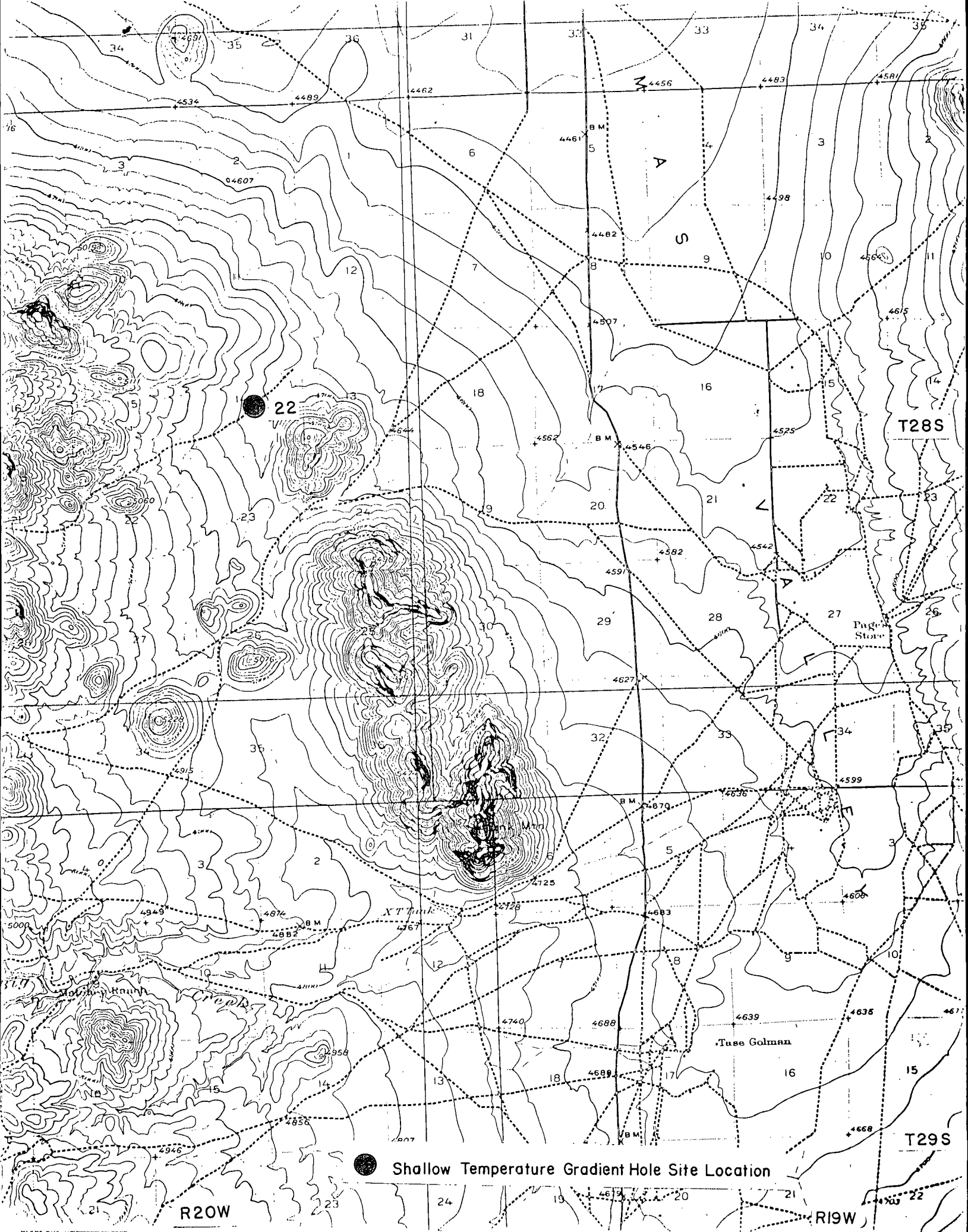
CONDITIONS OF APPROVAL, IF ANY:

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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

| | | | | | |
|---|----------------------|--------------------------------------|---------------------|---|--|
| Operator AMAX Exploration, Inc. | | Lease privately owned land | | Well No. 22 | |
| Unit Letter NA | Section 14 | Township 28S | Range 20W | County Hidalgo Santa Fe | |
| Approximate Location of Well: 2600 feet from the south line and 2600 feet from the east line | | | | | |
| Ground Level Elev. 4725' | Producing Formation | | Pool N A | Dedicated Acreage: NA Acres | |
| <p>1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.</p> <p>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</p> <p>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</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes," type of consolidation _____</p> <p>If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____</p> <p>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.</p> | | | | | |
|  | | | | CERTIFICATION | |
| | | | | I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. | |
| | | | | Name William M. Dolan | |
| | | | | Position Manager, Geothermal Exploration | |
| | | | | Company AMAX Exploration, Inc. | |
| | | | | Date 10-12-76 | |
| | | | | 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. | |





● Shallow Temperature Gradient Hole Site Location

SHALLOW THERMAL GRADIENT DRILL HOLES

Shallow exploration thermal gradient drill holes, as their names imply, are holes which permit temperature measurements at intervals down the hole. When several such holes are drilled, a comparison of temperature data between holes is useful in helping to locate and define areas of unusually high heat.

Shallow exploratory thermal gradient drill holes are usually drilled to depths of 30 to 500 feet. The holes which AMAX wishes to drill will average approximately 300 feet in depth.

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The equipment used to drill shallow thermal gradient drill holes consists of a light truck-mounted rotary drill rig and a water truck. The truck-mounted drill is usually set up on level ground as close as possible to existing roads. No bulldozing or leveling is required, nor is the drill dug in. The water truck is parked adjacent to the drill. Air is used to remove drill cuttings from the hole when drilling above the water table. Water mixed with drilling mud, and circulated through a portable mud tank, accomplished the same when drilling below the water table or in areas where the water table is relatively shallow. Drill cuttings from the hole are used to backfill the hole.

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The impact at the drill site once the hole has been filled may consist of tire marks from the two trucks and indications of earth movement immediately over the hole.

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

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

Form G-103
10-1 74

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

| |
|---|
| 5. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> |
| 6. State Lease No. State Highway |
| 7. Unit Agreement Name NA |
| 8. Farm or Lease Name NA |
| 9. Well No. 11 |
| 10. Field and Pool, or Wildcat NA |
| 12. County Hidalgo |

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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"/> |
| 2. Name of Operator AMAX Exploration, Inc. | |
| 3. Address of Operator 4704 Harlan Street, Denver, Colorado 80212 | |
| 4. Location of Well UNIT LETTER <u>I</u> <u>2000</u> FEET FROM THE <u>South</u> LINE AND <u>700</u> FEET FROM THE <u>East</u> LINE, SECTION <u>23</u> TOWNSHIP <u>27S</u> RANGE <u>20W</u> NMPM. | |

15. Elevation (Show whether DF, RT, GP, etc.)
4400' ground level

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
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| | | | |
|--|---|---|--|
| 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"/> |

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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. Casen TITLE Managing Geologist, Geothermal DATE January 5, 1976

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 4/26/77

CONDITIONS OF APPROVAL, IF ANY

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2098, Santa Fe 87501

Form G-103
10-1-74

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

| | |
|---|------------------------------|
| 5. Indicate Type of Lease | |
| State <input checked="" type="checkbox"/> | Fee <input type="checkbox"/> |
| 6. State Lease No. | |
| State Highway | |

(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. 11 | |
| 4. Location of Well UNIT LETTER <u>I</u> <u>2000</u> FEET FROM THE <u>South</u> LINE AND <u>700</u> FEET FROM THE <u>East</u> LINE, SECTION <u>23</u> TOWNSHIP <u>27S</u> RANGE <u>20W</u> NMPM. | | | | 10. Field and Pool, or Wildcat NA | |
| 15. Elevation (Show whether DF, RT, GP, etc.) 4400' ground level | | | | 12. County Hidalgo | |

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 JOBS <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) SEE 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. Casen TITLE Managing Geologist, Geothermal DATE January 5, 1976

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 4/26/77

CONDITIONS OF APPROVAL, IF ANY:

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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

OIL CONSERVATION COMMISSION

Form G-101

5A. Indicate Type of Lease
STATE ☒ FEE ☐

5. State Lease No.
State Highway

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.
11

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

10. Field and Pool, or Wildcat
NA

4. Location of Well
UNIT LETTER NA I LOCATED 2000 FEET FROM THE South LINE
AND 700 FEET FROM THE East LINE OF SEC. 23 TWP. 27S RGE. 20W NMPM

12. County
Hidalgo

| | | |
|---|---|--|
| 19. Proposed Depth <u><500 feet</u> | 19A. Formation <u>Alluvium or Tertiary volcanics</u> | 20. Rotary or C.T. <u>rotary</u> |
| 21. Elevations (Show whether DE, RT, etc.) <u>4400' ground level</u> | 21A. Kind & Status Plug. Bond <u>multiple</u> | 21B. Drilling Contractor |
| | | 22. Approx. Date Work will start <u>October 1, 1976</u> |

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 SHUT-IN 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

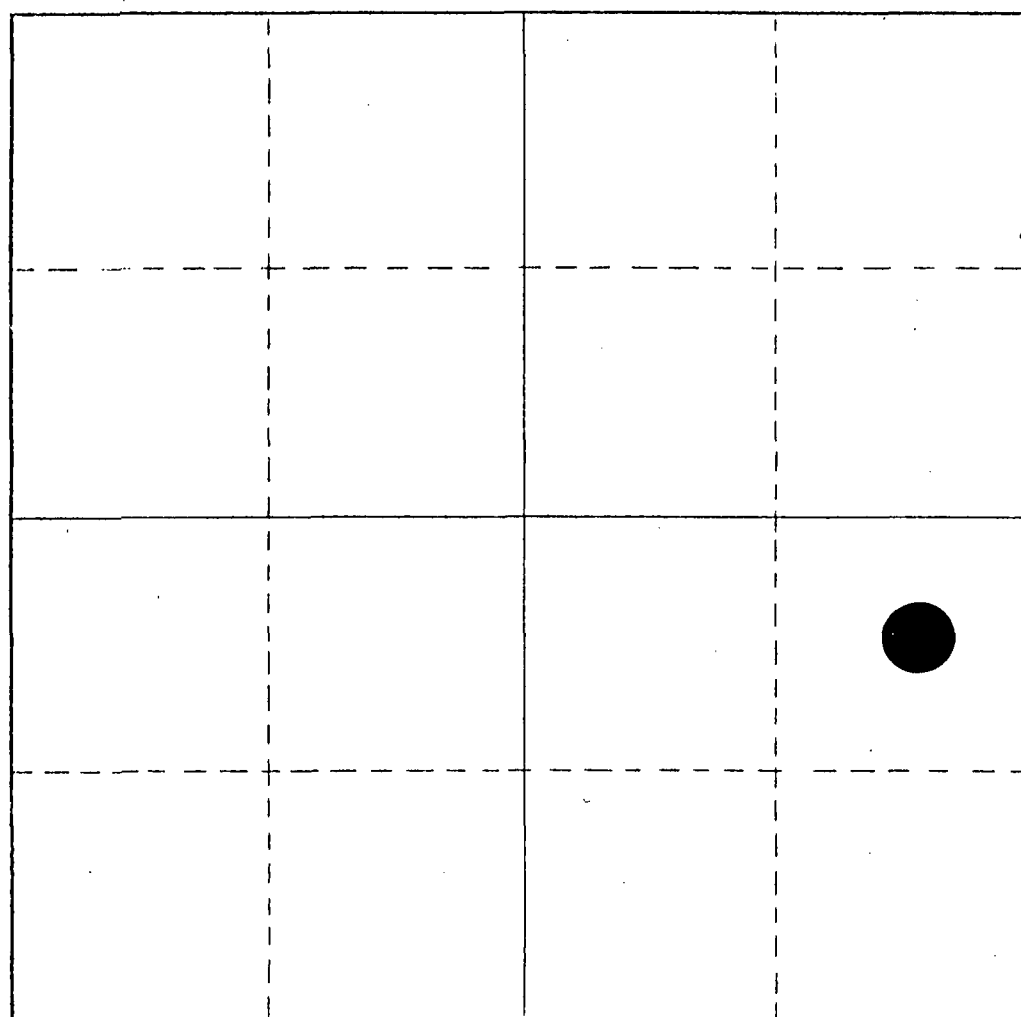
All distances must be from the outer boundaries of the Section.

| | | | | | |
|---|---------------------------|---------------------------|--------------|-------------------------------|--|
| Operator AMAX Exploration, Inc. | | Lease State Highway 22 | | Well No. 11 | |
| Unit Letter NA | Section 23 | Township 27S | Range 20W | County Hidalgo | |
| Actual Footing Location of Well: 2000 feet from the South line and 700 feet from the East line | | | | | |
| Ground Level Elev. 4400' | Producing Formation NA | | Pool NA | Dedicated Acreage NA Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.



| | |
|------------------------|--|
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| File | |
| N.M.B.M. | |
| U.S.G.S. | |
| Operator | |
| Land Office | |

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

SEP 22 Form G-101

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

| |
|--|
| 5A. Indicate Type of Lease |
| STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |

| |
|--------------------|
| 5. State Lease No. |
| State Highway |

| | | | |
|------------------|--|--|------------------------------------|
| 1a. Type of Work | Drill <input checked="" type="checkbox"/> | Deepen <input type="checkbox"/> | Plug Back <input type="checkbox"/> |
| 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"/> | |

| |
|------------------------|
| 7. Unit Agreement Name |
| NA |

| |
|-----------------------|
| 8. Farm or Lease Name |
| NA |

| |
|------------------------|
| 2. Name of Operator |
| AMAX Exploration, Inc. |

| |
|-------------|
| 9. Well No. |
| 11 |

| |
|-----------------------------------|
| 3. Address of Operator |
| 4704 Harlan St., Denver, CO 80212 |

| |
|--------------------------------|
| 10. Field and Pool, or Wildcat |
| NA |

| | | | | | | | |
|---------------------|-------------|----|---------|------|---------------|-------|------|
| 4. Location of Well | UNIT LETTER | NA | LOCATED | 2000 | FEET FROM THE | South | LINE |
| AND 700 | | | | | | | |
| | | | | | | | |

| |
|------------|
| 12. County |
| Hidalgo |

| | | |
|--------------------|--------------------------------|--------------------|
| 19. Proposed Depth | 19A. Formation | 20. Rotary or C.T. |
| <500 feet | Alluvium or Tertiary volcanics | rotary |

| | | | |
|--|-------------------------------|--------------------------|----------------------------------|
| 21. Elevations (Show whether DT, RT, etc.) | 21A. Kind & Status Plug. Bond | 21B. Drilling Contractor | 22. Approx. Date Work will start |
| 4400' ground level | multiple | | October 1, 1976 |

| |
|--|
| 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 PRODUCTION 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

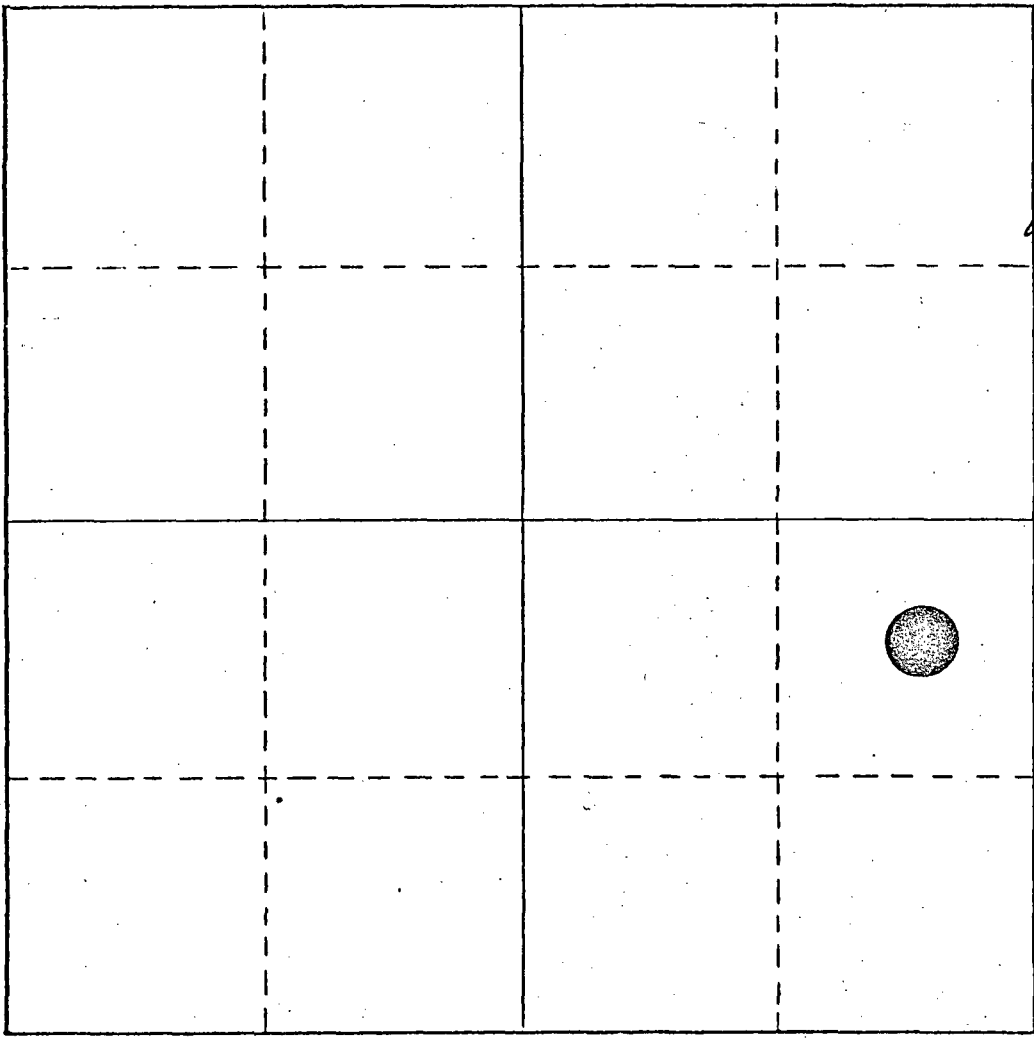
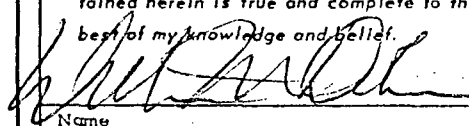
All distances must be from the outer boundaries of the Section.

| | | | | |
|---|---------------------------|---------------------------|-------------------------------|-------------------|
| Operator AMAX Exploration, Inc. | | Lease State Highway 22 | | Well No. 11 |
| Unit Letter NA | Section 23 | Township 27S | Range 20W | County Hidalgo |
| Actual Surface Location of Well: 2000 feet from the South line and 700 feet from the East line | | | | |
| Ground Level Elev. 4400' | Producing Formation NA | Pool NA | Dedicated Acreage NA 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.  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. |

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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

Form G-103
10-1 74

| | |
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| 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 <input checked="" type="checkbox"/> New <input type="checkbox"/> |
| 6. State Lease No. | GTR-237 |

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. | 17 |
| 4. Location of Well | UNIT LETTER <u>A</u> <u>700</u> FEET FROM THE <u>North</u> LINE AND <u>500</u> FEET FROM THE <u>East</u> LINE, SECTION <u>36</u> TOWNSHIP <u>27S</u> RANGE <u>20W</u> NMPM. | | 10. Field and Pool, or Wildcat | NA |
| 15. Elevation (Show whether DF, RT, GP, etc.) | | | 12. County | Hidalgo |
| 4450' ground level | | | | |

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 20.1.

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. Carson TITLE Managing Geologist, Geothermal DATE January 5, 1976

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 4/26/77

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
P. O. Box 2098, Santa Fe 87501

Form G-103
10-1 74

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

| | |
|---|------------------------------|
| 5. Indicate Type of Lease | |
| State <input checked="" type="checkbox"/> | Fee <input type="checkbox"/> |
| 6. State Lease No. GTR-237 | |

(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 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. 17 |
| 4. Location of Well UNIT LETTER <u>A</u> <u>700</u> FEET FROM THE <u>North</u> LINE AND <u>500</u> FEET FROM THE <u>East</u> LINE, SECTION <u>36</u> TOWNSHIP <u>27S</u> RANGE <u>20W</u> NMPM. | | 10. Field and Pool, or Wildcat NA |
| 15. Elevation (Show whether DF, RT, GP, etc.) 4450' 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 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 JOBS <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) SEE 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 4/26/77

CONDITIONS OF APPROVAL, IF ANY:

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

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

SEP 22 1976

Form G-101

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

| |
|--|
| 5A. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 5. State Lease No. GTR-237 |
| 7. Unit Agreement Name NA |
| 8. Farm or Lease Name NA |
| 9. Well No. 17 |
| 10. Field and Pool, or Wildcat NA |
| 12. County Hidalgo |
| 19. Proposed Depth <500 feet |
| 19A. Formation Tertiary Volcanics |
| 20. Rotary or C.T. rotary |
| 21. Elevation: (Show whether DB, RT, etc.) 4450' ground level |
| 21A. Kind & Status Plug. Bond multiple |
| 21B. Drilling Contractor |
| 22. Approx. Date Work will start October 1, 1976 |

| |
|---|
| 1. Type of Work Drill <input checked="" type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> |
| 2. 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"/> |
| 3. Name of Operator AMAX Exploration, Inc. |
| 4. Address of Operator 4704 Harlan St., Denver, CO 80212 |
| 5. Location of Well UNIT LETTER <u>NA A</u> LOCATED <u>700</u> FEET FROM THE <u>North</u> LINE AND <u>500</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>36</u> TWP. <u>27S</u> RGE. <u>20W</u> NMPM |
| 6. Elevation: (Show whether DB, RT, etc.) 4450' ground level |
| 7. Kind & Status Plug. Bond multiple |
| 8. Drilling Contractor |
| 9. 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 than 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 Val Uluog Title Manager, Geothermal Exploration Date 9-20-76

(This space for State Use)

APPROVED BY Carl Uluog 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.

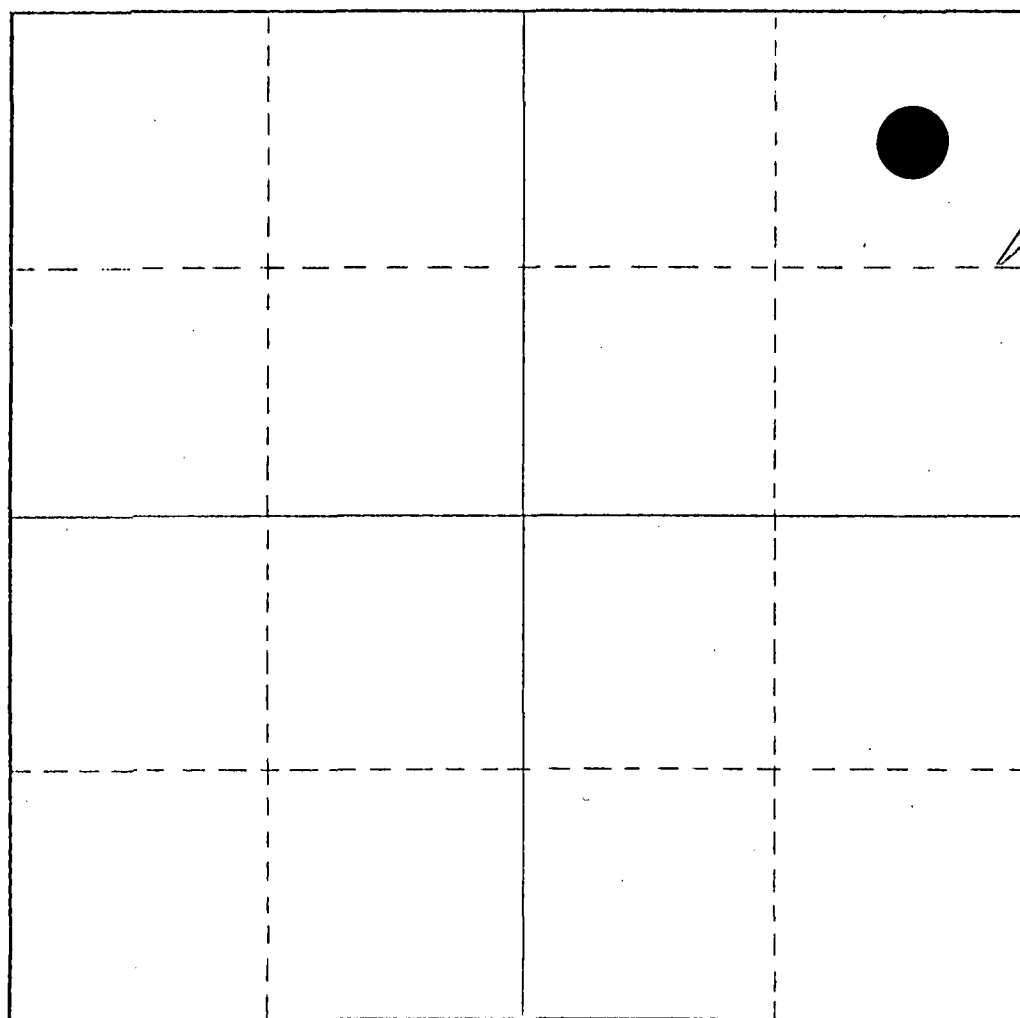
| | | | | | |
|---|---------------------------|------------------|--------------|-------------------------------|--|
| Operator AMAX Exploration, Inc. | | Lease GTR-237 | | Well No. 17 | |
| Unit Letter NA | Section 36 | Township 27S | Range 20W | County Hidalgo | |
| General Location of Well: 700 feet from the North line and 500 feet from the East line | | | | | |
| Ground Level Elev. 4450' | Producing Formation NA | | Pool NA | Dedicated Acreage NA Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name

William M. Dolan

Position

Manager, Geothermal Exploration

Company

AMAX Exploration, Inc.

Date

9-20-76

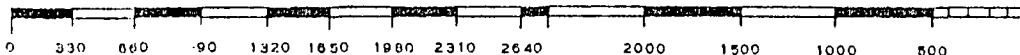
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

NA

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.



NEW MEXICO OIL CONSERVATION COMMISSION 23
P. O. Box 2088, Santa Fe 87501

OIL CONSERVATION Form G-101

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

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

5A. Indicate Type of Lease

STATE ☒ FEDERAL ☐

5. State Lease No.
GTR-237

7. Unit Agreement Name

NA

8. Farm or Lease Name

NA

9. Well No.

17

10. Field and Pool, or Wildcat

NA

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
AMAX Exploration, Inc.

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

4. Location of Well UNIT LETTER NA LOCATED 700 FEET FROM THE North LINE
AND 500 FEET FROM THE East LINE OF SEC. 36 TWP. 27S RGF. 20W NMPM

12. County
Hidalgo

19. Proposed Depth
<500 feet

14. Formation
Alluvium or Tertiary Volcanics rotary

20. Rotary or C.T.

21. Elevation: (Show whether DT, RT, etc.)
4450' 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 BLEWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Carl Ulvog 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.

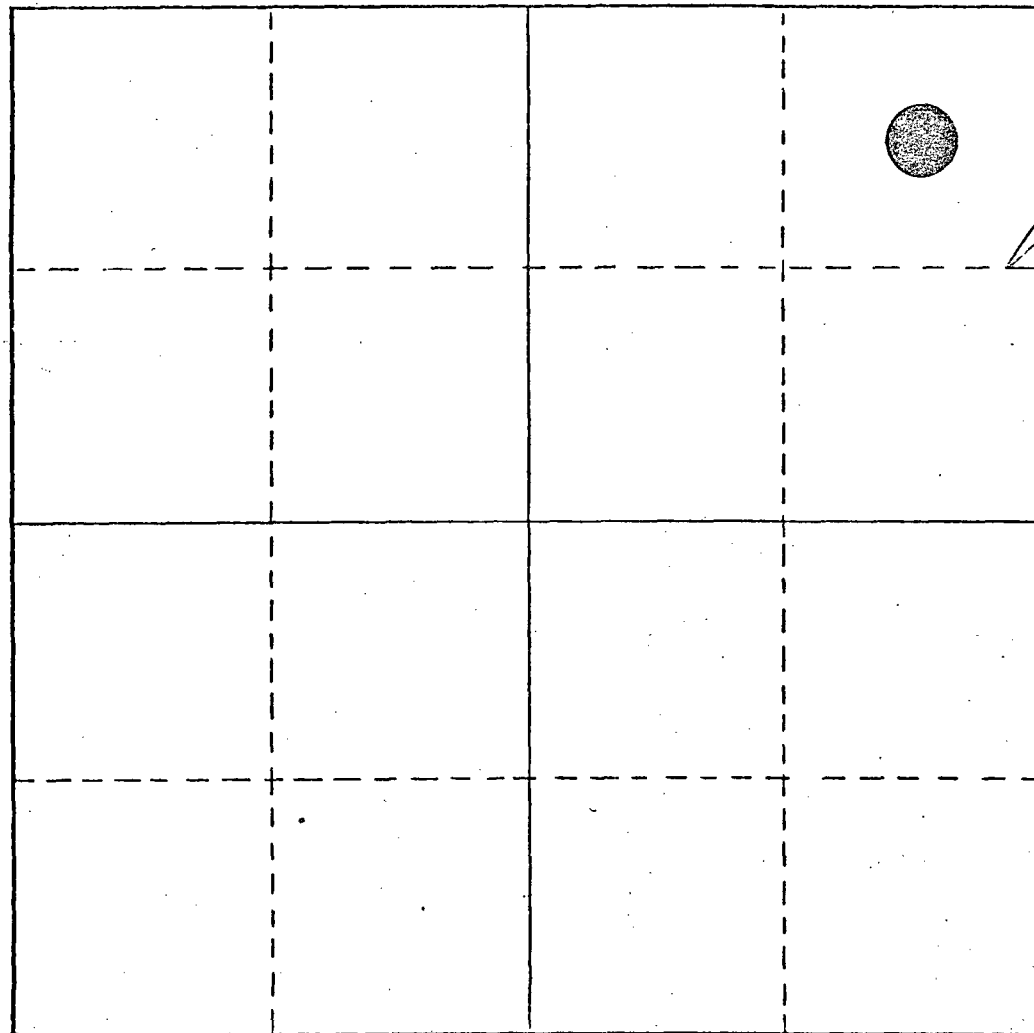
| | | | | | |
|--|----------------------------------|------------------------|-------------------------|--------------------------------------|--------------------------------|
| Operator AMAX Exploration, Inc. | | | Lease GTR-237 | | Well No. SEP 22 1977 |
| Unit Letter NA | Section 36 | Township 27S | Range 20W | County Hidalgo | |
| Actual Footing Location of Well: 700 feet from the North line and 500 feet from the East line | | | | | |
| Ground Level Elev. 4450' | Producing Formation NA | | Pool NA | Dedicated Acreage NA 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.

Name

William M. Dolan

Position

Manager, Geothermal Exploration

Company

AMAX Exploration, Inc.

Date

9-20-76

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NA

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

