Proposed Plan of Exploration McCoy Unit

Churchill and Lander County, Nevada

United States Geothermal Leases N-17449, N-17450 N-17451, N-17452, N-17454, N-17455, N-17470, N-17471, N-18851, N-18852, N-18854, N-18856, N-19924, N-19925, N-19926, N-19927, N-19928, N-20073, N-24495, N-24496, N-24497, N-24734

AMAX Exploration, Inc. 7100 West 44th Ave. Wheat Ridge, Colorado 80033

November 1980

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LOCATIONS AND ROADS

AMAX Exploration, Inc., Geothermal Branch, proposes to drill up to sixteen (16) geothermal test wells at the McCoy Unit, Churchill and Lander Counties, Nevada (Exhibit "A"). The exploration plan calls for a phased drilling program of progressively deeper holes to test the geothermal potential of Block B (Exhibit "A"). The planned well locations, proposed depths and proposed drilling programs are shown below:

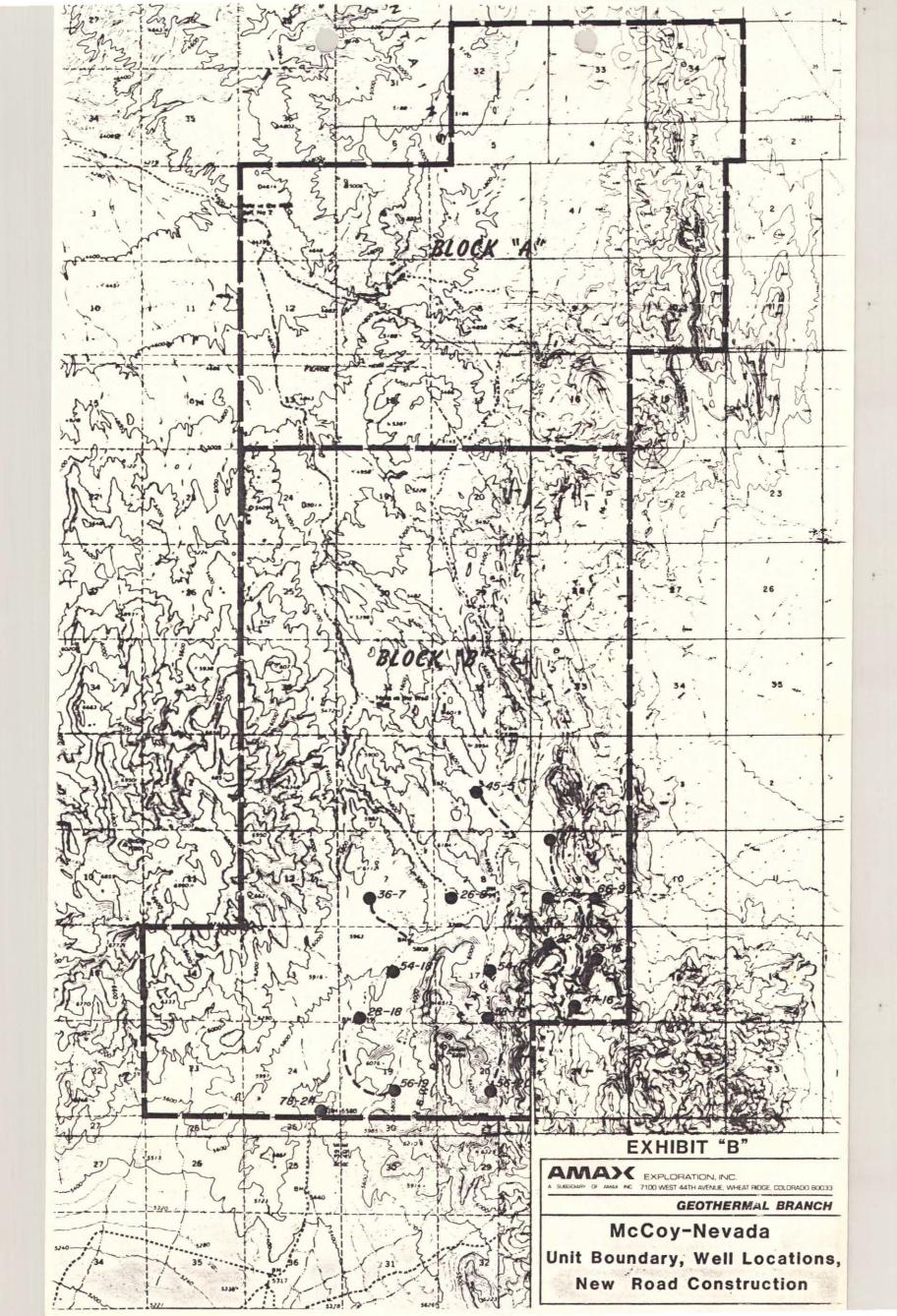
Well #	Location	Depth Range	Drilling Program
26-9 NW 28-18 SW 52-19 NW 78-24 SE 21-9 NW 54-18 SW 66-9 NW 63-16 SW 22-16 NW 58-17 SW	SW Sec.9 T22N R40E SE Sec.18 T22N R40E SE Sec.19 T22N R40E SE Sec.24 T22N R39E NW Sec.9 T22N R40E NE Sec.18 T22N R40E SE Sec.9 T22N R40E NE Sec.16 T22N R40E NW Sec.16 T22N R40E SE Sec.17 T22N R40E SW Sec.16 T22N R40E SW Sec.16 T22N R40E SW Sec.17 T22N R40E SW Sec.17 T22N R40E SW Sec.17 T22N R40E SW Sec.8 T22N R40E SW Sec.8 T22N R40E	1-2000' (305-610m) 1-2000' (305-610m) 1-2000' (305-610m) 1-2000' (305-610m) 2500-6000' (762-1829m) 1-8000' (305-2439m) 1-8000' (305-2439m) 2-8000' (610-2439m) 2-8000' (610-2439m) 2-8000' (610-2439m) 2-8000' (610-2439m) 4-8000' (1220-2439m) 4-8000' (1220-2439m) 5-8000' (1524-2439m) 6-8000' (1829-2439m)	I I I I I I I, II, or III II or III

For the purposes of the Plan of Exploration (POE) Geothermal Drilling Permits (GDP) are included for all 16 drill holes. However, in order to have the necessary flexibility during exploration all the holes are being permitted for depths of 1,000 to 8,000 feet (305m to 2,439m) and for up to three different drilling programs. Prior to the commencement of drilling, a Sundry Notice will be submitted for each hole detailing the anticipated depth and specific drill program to be used.

Access to the McCoy Unit is over existing roads maintained by Churchill County and the Bureau of Land Management. The proposed drill sites will either be constructed adjacent to existing roads (locations 26-9, 54-18, 28-18, 78-18, 66-9, 54-17 and 26-8) or will require new road construction (locations 56-19, 56-20, 47-16, 58-17, 22-16, 63-16, 36-7, 21-9, and 45-5) as shown on Exhibit "B".

AMAX will proceed with the proposed work so as to comply with local, state and federal regulating governing environmental protection and restoration.

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NARRATIVE STATEMENT

ENVIRONMENTAL PROTECTION

A. Fire Control

- 1. All local, state, and federal fire protection standards applicable to AMAX's activities will be observed.
- 2. Vegetation at the proposed drill sites is sparse and will be cleared to the extent required for the operations. Smoking will be allowed in designated areas.
- 3. Exhaust stacks for all engines in service will be equipped with muffling systems recognized and approved for use in the area.
- 4. Water and suitable fire extinguishing equipment will be available at the drill sites.

B. Soil Erosion

Culverts will be installed and aggregate applied as needed on the existing access roads. Since the well sites were selected to take advantage of the topography, only minimal disturbance will occur during pad construction. The locations will be built in accordance with the recognized engineering requirements as specified in the BLM manual "Roads, Trails and Landing Fields".

C. Surface and Groundwater

All surface drainage on the drill sites will be confined to the sumps. All necessary precautions will be taken to prevent runoff of impurities from the drill sites into local drainages.

D. Fish and Wildlife

All requirements of the area regulatory agencies will be compiled with to avoid dislocation of wildlife and/or contamination of groundwater.

E. Noise and Air Quality

Noise levels will be maintained within guidelines specified by Federal Occupational Safety Health Act standards. Air quality will comply with local Air Pollution control standards. Adequate supplies of water will be maintained for dust control during the operation.

F. Safeguards to Public Health

All unattended equipment left following the drilling, felt to be of a hazardous nature, will be secured with a fence. Supervisory personnel will be on the sites during the course of the operations. All requirements for casing and blowout prevention will be followed.

SOLID WASTE DISPOSAL

The area will be kept clean of litter and trash. A burn pit will be utilized for all combustable materials. Drilling muds and cuttings will be dried in the sumps then buried.

CULTURAL RESOURCES

The Plan of Operation for wells 66-8, 14-7, 17-6, 17-33, 21-20 and 38-9 included an archeological survey for a part of the McCoy Unit. Archeological clearance will be obtained for each of the sites prior to the commencement of any work. The work will be done either by a BLM archeologist or by an approved contract archeologist.

DETAILS OF WORK

EARTHWORK AND CONSTRUCTION

The road and site construction required for the proposed geothermal test wells at the McCoy Unit will be done to meet the needs of each specific drilling program. The following descriptions are general in nature, and are intended to outline the scope of work to be done.

A. Drilling Program I (Thermal Gradient Well)

- 1. <u>Road Construction</u> Access roads for the deep thermal gradient wells constructed to a standard which will allow a truck mounted rig and service vehicles to reach the site. The roads surface will be designed to accommodate single lane traffic with turnouts at strategic locations. Culverts and drainage ditches will be installed as needed.
- 2. <u>Drill Site Construction</u> The drill sites selected for deep thermal gradient wells were selected so as to test a geothermal model in the most cost effective manner. The drill locations utilize natural topography to minimize earthwork and environmental disturbance. At most sites the construction will be limited to digging three (3) pits as shown on Exhibit "C".
- 3. Revegetation and Reclamation Upon completion of the drilling operations, the pits will be dewatered by solar evaporation and then backfilled and graded to conform with the original contour of the land. Where needed, the disturbed area will be revegetated.
 - B. Drilling Program II (Diamond Drill Geothermal Test Well)

In the logical exploration for a geothermal resource it may be necessary to drill intermediate depth test wells to provide information on the geothermal model. Such geothermal test wells might well be of a slim hole

variety, and the extra information gained from continuous core could be important. Therefore, a diamond drill hole program has been included in the POE.

- 1. Road Construction Where needed, new access roads will follow as much as possible the natural contours of the land. The road width shall be governed by the minimum required for safe equipment operations. The road surface will be designed to accomodate single lane traffic with turnouts at strategic locations. The roads will need to carry service vehicle traffic for a thirty (30) to ninety (90) day period. Therefore, culverts and drainage ditches will be utilized as needed. If aggregate material is required, it is planned to use tailings from the McCoy Mine.
- 2. <u>Drill Site Construction</u> The drill sites required for an intermediate depth geothermal test well drilled with a diamond drill are comparable to those needed for the thermal gradient rigs. The sites were selected to utilize topography and minimize changes in natural contours and vegetative disturbance.

A reserve sump large enough to accommodate a short flow test may be incorporated into the drill site (Exhibit "D"). The reserve sump will be engineered in such a manner to preclude seepage into either surface waters or into groundwaters.

- 3. Revegetation and Reclamation Upon completion of the drilling operations the mud pit and reserve pit will be dewatered by solar evaporation. The pits will then be backfilled and graded to conform with the original contours and revegetated if needed.
 - C. Drilling Program III (Large Rotary Rig)

The phased exploration drilling concept will target a production test well which requires either a slim hole oil field rig or standard oil

field type rig. The earthwork and construction required for such a rig is much greater than that required for Drilling Program I or II.

l. Road Construction - The existing road leading to the McCoy Unit will require some upgrading when Drilling Program III begins. The upgrading would include drainage ditches, culverts and gravel surface. Such work would be coordinated with the Churchill County Highway department and with the BLM.

New road construction to the drill sites will be done in such a way as to follow the natural contours as much as possible. The construction will be done under the supervision of an engineering firm to assure that generally accepted standards are met. The road width shall be limited by the minimum required for safe equipment operation. The road surface will be 15 to 20 feet wide designed to accomodate single lane traffic for tractor trailers and will have tunnels placed at strategic locations. Culverts, drainage ditches and gravel surfacing materials will be used as needed. Materials for surface gravel will be obtained from the mine dumps at McCoy Mine.

2. <u>Drill Site Construction</u> - The drill sites were selected to utilize natural topography and will be engineered to balance the cuts and fills. The drill pads (Exhibit "E") for the large rotary rigs must be approximately 300 feet square and will be constructed under the supervision of an engineering firm.

A reserve sump large enough to accommodate a short flow test will be incorporated into the drill site (Exhibit"E"). The reserve pit will be engineered in such a manner as to preclude seepage into either surface waters or into groundwaters.

3. Revegetation and Reclamation: Upon completion of the drilling operations, the reserve pit will be dewatered by solar evaporation, the pit will be backfilled and graded to the original contours and revegetated.

DRILLING PROGRAM I (Thermal Gradient Wells)

Drilling Plan

- 1. Drill a 9-7/8 inch hole to 10% of estimated total depth.
- 2. Run 7 inch casing and cement.
- 3. Install and test BOPE.
- 4. Drill 6 to 6-1/2 inch hole to TD.
- 5. Complete as described below.

Drilling Fluids

The well will be drilled with air to total depth if possible. When drilling with air small quantities of water and biodegradable foam are added to the air.

If sufficient water is encountered down hole to prevent drilling with air then a switch will be made to drilling mud. Drilling will proceed with a fluid optimized for the hole conditions. Solids will be maintained at as low a level as practical.

Blow-Out Prevention Equipment (BOPE)

- 1. O-surface casing point none
- 2. Surface casing-TD pipe rams blind rams

The exact BOPE depends upon the rig used for a specific hole. However, the BOPE will either be a mechanical type when only a shallow cellar is required or a hydraulic type when deeper cellars are called for. In both cases a master valve with a 2-inch kill line and a 2-inch flow line will be installed on the casing before the BOPE is attached.

Directional Requirements

The hole will be maintained as nearly vertical as possible. In no case will the deviation be allowed to reach the point that drill pipe fatigue is experienced.

Completion Program

- 1. Run tubing with bottom cap to TD.
- 2. Fill annulus with drill cuttings.
- 3. Cement top 10 feet of annulus.
 - 4. Fill tubing with water.
 - 5. Install top cap on tubing.

Logging Program

- Temperature surveys temperatures surveys will be made approximately every 500 feet - hole conditions permitting.
- 2. Casing point to TD (hole conditions permitting)
 - a. Temperature log.
 - b. SP log.
 - c. Gamma log.

DRILLING PROGRAM II (Diamond Drill Test Wells)

Drilling Plan

- 1. Drill a 9 5/8" hole to 10% of estimated TD.
- 2. Run 7" casing and cement surface.
- 3. Install and test BOPE.
- 4. Run $H(\simeq 4 1/2")$ pipe and cement.
- 5. Drill HQ hole to $\pm 4,000$ feet.
- 6. Drill NQ hole to TD.

Mud Program

Drilling will proceed using a drilling fluid optimized for the hole conditions. Solids will be maintained at as low a level as is practical.

2. If a non-commercial situation exists, a valve will be installed and operations suspended. The well will be used for temperature and pressure observations in the future.

Flow Test

A short production flow test will be run if production is encountered. The flow test will be conducted for the time necessary to fill the reserve pit. The flow test will permit a test of wellhead equipment and give an estimate of the production capacity. Wellhead flowing pressures and temperatures will be measured, and well bore pressure and temperature will be measured upon completion of the flow test. The initial flow test provides data needed to set up an extended flow test needed to determine reservoir properties.

DRILLING PROGRAM III

Drilling Plan

- 1. 20-inch hole to 50 feet.
- 2. 13 3/8" conductor casing will be set to 50 feet.
- 3. Drill a 12 1/4" hole to 10% of estimated TD.
- 4. Run 9 5/8" surface casing and cement to surface.
- 5. Install and test BOPE.
- 6. Drill a 6 1/4" hole to 2,000-8,000 feet.
- 7. Complete well as described below.

Mud Program

Drilling will proceed using a drilling fluid optimized for the hole conditions. Solids will be maintained at as low a level as is practical.

Blow-Out Prevention Equipment (BOPE)

- 1. 0 to surface casing point none
- Casing point to TD pipe rams blind rams annular preventor or rotating head

Directional Requirements

The hole will be maintained as nearly vertical as possible. In no case will the deviation be allowed to reach the point that drill fatigue is experienced.

Logging Program

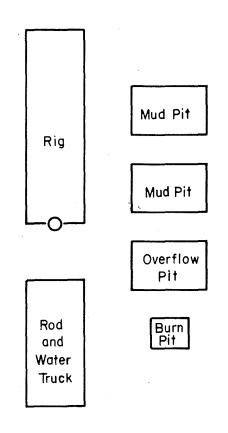
- 1. Temperature surveys temperature measurements will be made every 500 feet hole conditions permitting.
- 2. Casing point-TD IES, BHC Sonic, GR-FDC-CNL, Caliper (hole condition permitting).

Completion Program

- 1. If commercial temperatures and fluid influx rates are encountered, and hole conditions warrant, the following procedure will be followed:
 - a. Set a 200' cement plus 25 feet above the producing horizon.
 - b. Drill out 180 feet of plug.
 - c. Run 4 1/2" casing liner and cement to surface.
 - d. Drill out remainder of cement plug.
 - e. Install wellhead assembly.
- 2. If a non-commercial situation exists, an 8" WKM series 400 (ANSI) valve will be installed and operations suspended. The well will be used for temperature and pressure observations in the future.

Flow Test

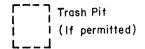
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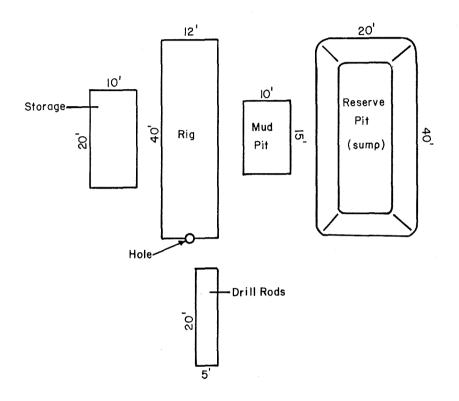


SCALE 1"= 20"

EXHIBIT "C"

TYPICAL AT RIG LAYOUT





SCALE=1:20'
APPROXIMATELY 5' BETWEEN
EACH ITEM

EXHIBIT "D"

TYPICAL DIAMOND RIG LAYOUT

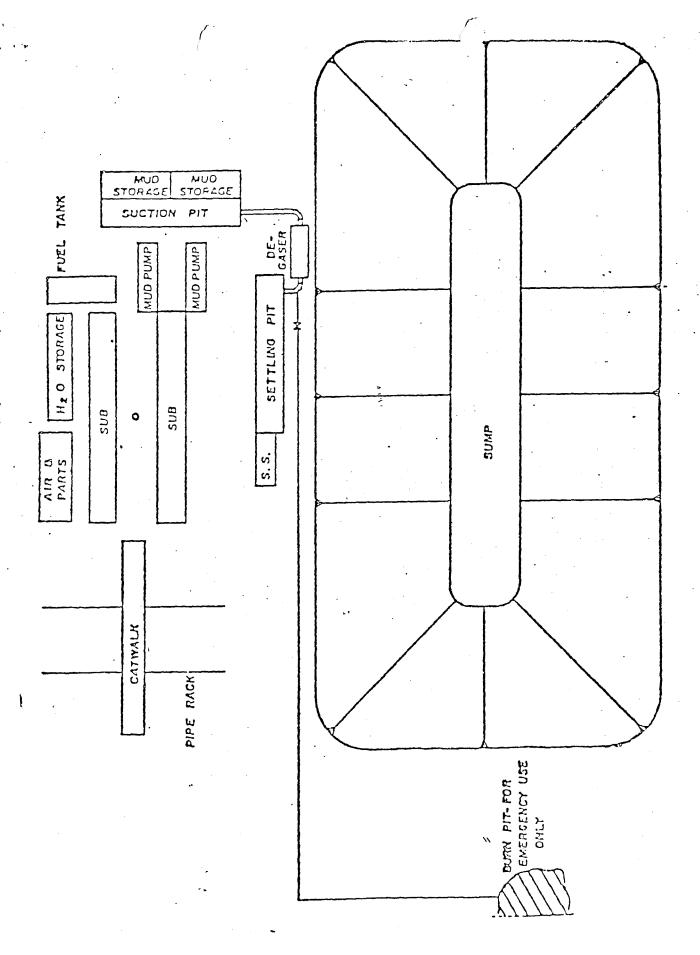


EXHIBIT "E"

TYPICAL RIG LAYOUT

SCALE: Approx. 1" = 30'

CONTINGENCY PLANS

The McCoy property is located approximately 10 miles from the nearest habitation. During the summer months the area is used for cattle grazing. AMAX will utilize the commonly accepted abatement procedures for any accidental spills or discharge which might occur, or for an uncontrolled blowout, or for hydrogen sulfide emissions. The field drilling foreman will initiate the appropriate abatement action and call the Drilling Supervisor.

Percy A. Wicklund

Office (303) 433-6151 Home (303) 233-2255

The Drilling Supervisor will notify the following:

1. Geothermal Manager and brief him on the situation and course of action:

W. Lodder

and

H. J. 01son

Office (303) 420-8100 Home (303) 232-9179 Office (303) 420-8100 Home (303) 988-5332

2. Notify the appropriate agencies or regulatory bodies from the following list:

State of Nevada Water Resources Division 201 South Fall Carson City, Nevada 89701

(702) 885-4380

State of Nevada Fish and Game Department Regional Office Elko, Nevada 89801

(702) 738-5332

Bernie Moroz, District Geothermal Supervisor U. S. Geological Survey #137 4600 Kietzke Lane Reno, Nevada 89502

Office (702) 784-5676 Home (702) 826-8780

Bureau of Land Management Carson City District Carson City, Nevada 89701

Office (702) 882-1631

Nevada State Fish and Game Department Regional Office Fallon, Nevada 89406

Office (702) 423-3171

Water Resources Division State of Nevada 201 South Fall Carson City, Nevada 89701

Office (702) 885-4380

United States Geological Survey Conservation Division Geothermal Supervisor Menlo Park, California 94025

Office (415) 323-8111

Churchill County Sheriff Fallon, Nevada 89406

(702) 423-3116

Lander County Sheriff Austin, Nevada 89310

(702) 964-3661

Battle Mountain, Nevada 89820 (702) 635-5161

3. If injuries have occurred, dispatch the injured personnel to the nearest medical facility by the fastest transportation available.

Ambulance Service:

Ground:

Air: (702) 423-2700 (702) 329-9022

(702) 623-2762

Hospital:

Fallon, NV (702) 423-3151 Battle Mountain, NV (702) 635-2550

Doctors:

Fallon (702) 423-3126 Battle Mountain (702) 423-7161

ACCIDENTAL SPILLS OR DISCHARGES

In the event of accidental spills or discharges of condesate, drilling muds, petroleum products or construction debris, the contingency plan is as follows:

1. The person responsible for the operation will make an immediate investigation, then call the Field Drilling Foreman and advise him of spill. The Field Drilling Foreman will in turn call out heavy equipment, regulate field operations, or do other work as applicable for control and clean-up of spill. If spill is small (i.e., less than 250 gallons) and easily containable without endangering watershed, Field Drilling Foreman will direct and supervise complete clean-up and return to normal operations.

2. If spill is larger than 250 gallons, or is not easily contained, or endangers or has entered watershed, Field Drilling Foreman will proceed to take necessary action to curtail, contain and clean up spill, and notify personnel as follows:

Percy A. Wicklund

Office (303) 433-6151 Home (303) 233-2255

The drilling supervisor will confirm the telephone notification in writing within two (2) weeks. The written report will include: 1) reason for discharge, 2) duration and volume of discharge, 3) steps taken to correct the problem, and 4) steps taken to prevent re-occurrence of problem.

UNCONTROLLED BLOWOUT

If the means to control the flow from a well is lost, the field drilling supervisor will initiate appropriate control procedures, containment procedures, and notify the drilling supervisor:

Percy A. Wicklund

Office (303) 433-6151 Home (303) 233-2255

The drilling supervisor initiates additional steps which may be deemed necessary after consultation with the field drilling supervisor. The drilling supervisor will confirm the telephone notification in writing within two (2) weeks. The written report will include 1) the reason for the blowout, 2) the duration and volume discharged, 3) the steps taken to correct the problem, and 4) steps taken to prevent re-occurrence of problem.

HYDROGEN SULFIDE

Previous drilling experience at the McCoy Unit suggests that hydrogen sulfide emissions will not be a serious problem. The drilling program calls for a mud program which should provide adequate abatement. Should sufficient amounts of hydrogen sulfide be encountered to require additional abatement, the field drilling supervior will:

1. Notify Drilling Supervisor

Percy A. Wicklund

Office (303) 433-6151 Home (303) 233-2255

- 2. Stop drilling, circulate well until gas is controlled.
- 3. Make sure all non-essential personnel are out of potential danger area.

GENERAL SAFETY PRACTICES

The following general safety regulations and such additional regulations issued by the Field Drilling Supervisor are for your protection. All personnel are required to read and understand the general safety practices and the contingency plans.

1. REPORTING PERSONAL INJURIES

All of the job personal injuries, even of a minor nature, must be reported on AMAX's Workmen's Compensation Form no later than the end of the shift in which the injury occurred.

2. SMOKING

Smoking will be permitted only in authorized smoking areas.

3. OPEN FLAMES

Open flames are not permitted within 100 feet of the rig.

4. CLOTHING

All employees shall be clothed in a manner which will not impair their safety.

5. HAZARDOUS CHEMICALS

Safety equipment as prescribed by field, area, or district authority, shall be worn when handling chemicals.

6. EYE AND HEARING PROTECTION

Adequate eye and face protection devices will be worn when grinding, welding, chipping, pouring chemicals or wherever flying particles may cause eye injury. Hearing protection devices will be worn where required.

7. SAFETY SHOES

Steel-toed safety shoes should be worn by all employees except supervisors, office employees and those unable to do so by reason of physical deformity.

8. SAFETY HATS

Safety hats must be worn by employees and visitors in accordance with the rules established for the particular field, area, or district.

9. SAFETY BELTS

Safety belts will be worn on all above ground work as prescribed by field, area, or district.

10. SEAT BELTS

While driving company automotive equipment, seat belts must be worn at all times by driver and passengers if vehicle is so equipped.

11. HORSEPLAY

Horseplay or practical jokes will not be permitted.

12. TOOLS

Only tools in good working condition and designed for the particular job being performed shall be used.

13. ELECTRICAL

Only qualified and designated employees shall work on electrical lines and equipment. All rig lighting should be vapor and/or explosive proof. Wellheads, blowout preventers and cellar should be illuminated with flood lights located as far away as possible maintaining proper illumination.

14. MACHINERY

Repairs shall not be made on machinery until power is positively locked out at the electrical disconnect. Prime movers, machine or equipment capable of movement, shall be effectively blocked or secured while repairs are being made. All engines should be equipped with explosion resistant or explosion proof ignition systems and water injection system for exhaust. All engine exhaust should be welded to insure a closed system.

15. GUARDS

Guards must not be removed while equipment is operating and must be in place before start-up.

16. HOUSEKEEPING

Good housekeeping is an aid to safety. All employees will keep tools, equipment and area clean and orderly.

17. ACCIDENT PREVENTION RESPONSIBILITY

Each employee is responsible for prevention of accidents to men working under his supervision. It is his responsibility to train these employees in the safest and most efficient way to work. It is the further responsibility of each employee to correct or report to his supervisor any unsafe condition or practice which he may observe.

18. VIOLATIONS

Employees who violate these safety regulations or others issued by the field, area, or district will be subject to disciplinary action.

19. SAFETY HATS

All personnel will wear safety hats while on the project.

20. GAMBLING, LIQUOR AND NARCOTICS

There will be no gambling, intoxicating liquor, or narcotics on Company owned, leased, or operational properties.

21. EAR PROTECTION

All personnel working in high noise level areas as designated by the company are required to wear hearing protectors at all times.

22. WELDING IN FIELD AREAS

No welding will be done without fire watch with extinguisher. Welding is not to be permitted on the rig unless authorized. If welding is required, approval is required from the Drilling Supervisor.

23. SAFE DRIVING

All personnel will drive with caution on the project. Where steam conditions limit vision, personnel will use vehicle headlights and proceed slowly through the area.

24. EQUIPMENT OPERATION

<u>All</u> personnel will follow State and Federal Safety Regulations and maintain a minimum cléarance of 10 feet from overhead high voltage.

25. ELECTRIC HAND TOOLS

Portable electric hand tools with exposed non-current carrying metal parts shall be grounded unless the portable tools are protected by an approved system of double insulation.

26. SAFETY MEETINGS

All personnel will attend and participate in the monthly safety meeting.

27. FIRE CONTROL

All local, county, state and federal fire protection standards applicable to AMAX's activities will be observed.

Note: AMAX Exploration, Inc., is prepared to submit, upon notification to do so, any further information which might be required. AMAX is also prepared to do the monitoring deemed necessary to ensure compliance with regulations covering existing air and water quality, noise, seismic and land subsidence activities in accordance with CFR 270.34(k).

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2,900'	from 66-8						14. ACRES	ASSIGNED (WEL	L SPACING)
	AND CHAFACTERISTICS:	AIR XX	19. PRO	POSED DEPTH ED: 1,000-2,00	20. ELEVA	TIONS: ESTIM	1,280 ATED (X)X F	0.00 acre	160'
WATER () MUD	XX FOAM XX Other (}			U [,	
21. EXISTING AND/OR	PROPOSED CASING AND C	EMENTING PROGRAM		errical: 1,000-2			2.00 2.10,11.,20		
	inquish the two progra			COUPLING	GRADE	SETTING			OF CEMENT
				(Collars & Threads)	<u> </u>				
9-7/8"	7"		•			100' to	200'		
(6"-6½"	2-3/8"				:	Surface	to TD		
	(tubing) or								
•	NX casing								
							ļ		
22. PROPOSED WORK SE	JMMARY			1		J			
Dofon to	Duana and Disa	-£ []		Durid 7.7 din m	D	/ 4 1 1		4 77 -	`
Refer to	Proposed Plan	or Explora	ation	- Drilling	Program 1	(tnermai	gradie	ent wells).
							•		

CONDITIONS OF APPROVAL, IF ANY:

irmit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States as to any matter within its jurisdiction.

FORTH US/13 9-1957 UNITE. ATER SPEAKTMENT OF THE INTERCOMPTION OF THE INTERCOMPT COMMENSATION OFFICERS.	
CENTREMAN CONTINUES PROMET	N-18854
The U.S. Genlogical Survey requires this form or other Supervisor approved for Stillionic with requisite Attachments with the Supervisor. The Supervisor many lease operation.	orm to be prepared and filed in
ia. Type of work: Osico new while XX separable () deeren () paint back () OTHER CONDICTIONALLY CREDIT () STHER () UNIT AGREEMENT NAME MCCOV
LE. ALLE TYPE: PRODUCTION () INJECTION () HEAT EXCHANGE () CASERVATION GEOTHERMS Lest well Lest we	28-18
AMAX Exploration, Inc.	Wildcat
7100 West 44th Avenue, Wheat Ridge, Colora	ado 80033 SW4SW4, Section 18,
At surface SW4SW4, Sec.18, T22N, R40E, MDBM, 900	o' from West line T22N, R40E, MDBM
N/A	Churchill Churchill
16. DISTANCE FROM PROPOSED LOCATION TO NEMBER PROPERTY OR LEASE LINE 300' from South line (section line)	Nevada
17. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR 10,000' from 66-8	Unknown
	14. Acres Assigned (Medit Spacing 629.98 acres
Tall dricking media and characteristics: Air XX (19. Professo depth water () MCD XX FOAM XX other () MEASURED: 1,000	0-2,000'
TRUE VERTICALI, (CAS MUNICIPE TO THE STATE OF TH
 EXISTING AND/OR PROPOSED CASING AND CEMENTING PROGRAM (List existing pro- to clearly distinguish the two grograms) 	
SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT COUPL (Collars 6	
9-7/8" 7"	100' to 200'
6"-6½" 2-3/8" (tubing) or NX casing	Surface to TD

Refer to Proposed Plan of Exploration - Drilling Program I (thermal gradient wells).

22. PROPOSED WORK SUMMARY

			(Use additional space on reverse side	of for
"Li Doncy E. Morrill		Supervisor, Land Record	ds 11/10/80	
Wendy F Merrill	71715	and Permits	DATS	
(This space for Federal use)				
YPPCVEO 9Y	title		CATE	
COURTEROUS OF ARRESTMENT AND ALGO				

rmit is required by law (30 U.S.C. 1023); regulations; 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1071) makes it a criminal offense to make a willfully false statement or representation to any Department of Agency of the United States is to any matter within its jurisdiction.

Form: 1843 9-1957	Unit:: Geolo	T TO TRANSPARTS CENT OF T TICAL STRVEY, CONSERVATI					Angroved & Bureau	io,
		SECRETARISMYT CHITTING D.	<u>8917</u>			N-1992		
The U.S. Geological triclinite with requant lease operation.	lisite attachments with	orm or other Supervisor the Su	approved form to be pervisor must appro	prepared and fi We this permit p	tion to			80% () FS Other (X)
la. TYPE OF WORK:	DRILL NEW WELL XX RE	P () 487882 () 441840	COT BACK () DIESE	TIGHALLY CAILS	/ STHER ()		PERMENT N	ME.
LE. AVIL STATUS: 480	thermal test w	HENT EXCHANGE ()	CASERVATION () W	ATER SUPPLY ()	отнек ХХ	52-19	•	d. seamin
 37. NASS OF LEGIZE. 	ploration, Inc					Wildo	at	
 ADDRESS OF LEGS 	EEL/OPERATOR	, Wheat Ridge,	Colomado 9	10022		10. 380. 7.		
15. WCATTON OF APT At surface NW At proposed pro	¼SE¼, Sec. 19,	T22N, R40E, MI	DBM, 900' fr	om North 1 om East 1i	ine ne		R40E,	tion 19, MDBM
	117 / 1					Churc		
900' from	North line (se	vest property or lease of ction line)				Nevad	a	
9,500! fro		REST WELL, DATELİNG, CO	PLETED, OR APPLIED	FOR ON THIS LEAD	SE.	us. Approx Unkno	. starting WN	WELL SPACING)
13 Description Websi	AND CHAFACTERISTICS: A	12 VV 112 222	naga agami	1-0	nons: Estima	1,911	.38 ac	res
	XX FGAM XX Other (108ED SEPTH 10:1,000-2,00 18TICAL: 1,000-2		ENCE DATUM: G		() DF () K3 () RT (
	PROPOSED CASING AND CE	MENTING PROGRAM (LLS: e)	usting program firs	st, followed by p				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	COUPLING (Collars & Threads)	GRACE	SETTING	DEPTH	QUANT	ITY OF CEMENT
9-7/8"	7"				100' to	200'		
(6"-6½"	2-3/8" (tubing) or NX casing				Surface	to TD		
22. PROPOSED WORK SI	UMMARY							
Refer to P	roposed Plan o	f Exploration -	- Drilling P	rogram I (thermal	gradieni	t well:	s).
			•					
				• .				
					(Use ad-	dirional so	ice on revi	erse side of for

Constitions of Approval, if ART:

rmit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1021) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States is to any matter within its jurisdiction.

		(
Form: 3878 9-1987	unith. Tates department of the included and included on the conservation of the conser		Form Approved Budget Qure to No.
	OLIMINAMO DESTREMENTA		F. DEADE JURIAL NO.
	equires this form or other Supervisor approved tachments with the Supervisor. The Supervisor		N-25112 5. SUPPLIES MUNICAL BLD () F USGS Other (X)
la. Type of work; paids he	M WELT XX BYDRITT () DEELEN () BYD. BYG.	K () DIPECTIONALLY DRILL () OTHER (MCCOY
LE. AND STATUS: PRODUCTION Geotherm LE. AND STATUS: New W	Ifau test hell	ATION () WATER SUPPLY () OTHER XX	7. ARLE NO. 3. PERMI - 78-24
AMAX Explora			Wildcat
3. ADDRESS OF LEDGEL, OPERA 7100 West 44	th Avenue, Wheat Ridge, Colo	orado 80033	SE4SE4, Section 24,
At surface SE4SE4,	Section 24, T22N, R39E, MDB	M, 400' from South line	T22N, R39E, MDBM
At proposed prod. zone	,	1500' from East line	ιι. ·cουπγ Churchill
400' from South	CATION TO NEMBEST PROPERTY OR LEASE LINE line (section line)		Nevada
15,000' from 66	location to nearest well, drilling, completed, -8	OR APPLIED FOR ON THIS LEASE	Unknown

TRUE VERTICAL: 1,000-2,000 | REFERENCE DATUM: GRXXX MAT () DF () KB () RT (
GASTNOHEAD FLANGE () OTHER ()

21. EXISTING AND/OR PROPOSED CASING AND CEMENTING PROGRAM (List existing program first, followed by proposed program, and separate by a sufficient spao clearly distinguish the two programs) SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT COUPLING GRADE (Collars & Threads 100' to 200' 7" 9-7/8" Surface to TD 2-3/8" 6"-61/2" (tubing) or NX casing

19. PROPOSED DEPOT MEASURED: 1,000-2,000' 1,920.00 acres

22. PROPOSED WORK SUMMARY

DRILLING MEDIA AND GRAFACTERISTICS: AIR XX WATER () MUD XX FOAM XX Other ()

Refer to Proposed Plan of Exploration - Drilling Program I (thermal gradient wells).

		te	use additional space on reverse side of	f
12 Den Dy F. Merrill	Su	pervisor, Land Record		
Wendy F Merrill	TITLE	and Permits	27.60	
This space for Federal user				
APPROVED BY	TITLE		2740	

rmit is required by law (30 U.S.C. 1023), regulations; 30 CFR 200.71, Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department or Agency of the United States is to any matter within its jurisdiction.

					· /				
Form: US/12 9-1957		E. TATES OFFAKTS STICAL SURVEY, COM						n Arproved met purens '	So.
		CLAMMINAVY DETT	LIM PU	7117				SIRIAL NO.	
	Survey requires this usite attachments with						N-200 USGS		SLN () FS Ocner (X)
1a. TYPE OF AGREE	ORICE NEW WELL XX 37	LURILL () LITHUL	t) P1	DESTG () NOKE (U.)	TIGNALLY DRILL	/ OTHER ()	McCo	GREEMENT N	VAE.
	thermal test		SE ()	CASERVATION () W	ATER SUPPLY ()	OTHER XX	21-9	1	a. PERMIT
AMAX Ex	ploration, In	С.					Wild		
7100 We	st 44th Avenu	e. Wheat Ri	dae,	Colorado 8	30033		NW4NI		tion 9,
At surface NW	NW4, Section	9, T22N, R	40E,	MDBM, 400'	from North	line		, R40E,	ויוטטויו
At proposed pro	d. zone N/A			1050'	from West	line	11. Coun	chill	
	ROPOSED LOCATION TO ME North line (S			LINE			Neva		
17. DISTANCE FROM P	ROPOSED LOCATION TO NE	EAREST WELL, DRILL	נאט, כסא	PLETED, OR APPLIED	FOR ON THIS LEAS	Ē	1	X. STARTING	CATE
4,500' fro	m 66-8								WELL SPACING)
	AND CHAFACTERISTICS:	AIR XX III). PROF MEASURE	:0:2,500-6,00	0' 10. ELEVAT	ions: Estim	ATED XX F	INAL ()	5,800'
		į.		RTICAL: 2,500-6	, σοψ	(TAS INGHEAD	FLANGE ()	
	PROPOSED CASING AND C		List ex	nsting program fire	st, followed by p	copesed prog	ram, and se	parate by a	sufficient spe
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER S	.004	COUPLING (Collars & Threads)	GFADE	SETTING	DEFTH	QUANT.	TTY OF CENERAL
Refer	to Proposed	l Plan of Exp	lorat	ion					
(l os // oposed /	1	, 0						

22. PROPOSED WORK SUMMARY

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

		(Use ad	ditional s	pace on reverse side of for-
Wendy E. Merrill		Supervisor, Land Records		11/10/80
Wendy F. Merrill	TITLE	and Permits	2745	
(This space for Federal use)				
APPROVED BY	TITLE .			

resit is required by law (30 U.S.C. 1023), regulations; 30 CFR 270.71; Federal Cootnermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1071) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States as to any matter within its jurisdiction.

CHITE ATER CENALTYSIT OF THE INC. BLOG GROWS LAD SURVEY, CONSERVATION DIVISION

Porm Approved Budget Burens No.

		OF ALMERANT DESTREES BY	Pref.T			N-188	EA
25.13	C.S. Geological Survey requires this lighte with requisite Attachments will lease operation.		S MANAGER SEN () FS Other (X)				
la.	TYPE OF HORRE DRILL NEW HELL XX	TORICO () DEELEN () b	TORRETCE () XONE CO.	ICHALLY DRIED ()	STHER ()	McCov	JAEEMENT NAME /
1b.	Geothermal test	N .) HEAT ENCHANGE ()	CaseRVATION () WA	TER SUPPLY () 3	отнек ХХ	54-18	d. PERMIT .
2.	HAVE OF LEGGER, OFERATOR					Wildo	R ARRA
3.	AMAX Exploration, Ir	C.				<u>-¦10. 3≅0. 7</u>	., R., B., M.
16	7100 West 44th Avenu	e, Wheat Ridge,	<u>Colorado</u> 80	0033			⅓, Section 18, R4OE, MDBM
٠.	At surface SW4NE4, Section		12211,	K4UE, MUDIN			
	At proposed prod. zone N/A		2300	from East	line	Churc	
ló.	DISTANCE FROM PROPOSED LOCATION TO 1					12. STATE	-
17.	2,300' from North or	East line (sect	ion line)	FOR ON THIS LEASE		Nevac	la C. STARDING DATE
	6,800' from 66-8					Unkno	own
	0,000 17011 00-8						Assigned (Well spacing) 8 acres
13.	DRILLING MEDIA AND CHAPACTERISTICS: WATER () MUD XX FOAM XX Other	AIR XX 119. FRO	rosed DEPTH ED: 1,000-8,000	20. ELEVATI	CNS: ESTIM		
	TALLER Y THE AN TONY AN OCHE		ERTICAL: 1,000-8;				() DF() KB() RT(
21.	EXISTING AND/OR PEOPOSED CASING AND		· · · · · · · · · · · · · · · · · · ·				LANGE () CTHER I) HERE BY A SHIFTINGS SPACE
-	size of Hole Size of CASING	WEIGHT PER FOOT	COUPLING	GRADE	SETTING	DEPTH	QUANTITY OF CEMENT
-	•						
			(Collars & Threads)				
	Pofor to Propose	d Dlan of Evplo					
	Refer to Propose	d Plan of Explo					
	Refer to Propose	d Plan of Explo		·			
(Refer to Propose	d Plan of Explo		;			
	Refer to Propose	d Plan of Explo					
(Refer to Propose	d Plan of Explo					
(Refer to Propose	d Plan of Explo					
22.	Refer to Propose	d Plan of Explo					
	PROPOSED WORK SUMMARY Refer to Proposed Plan	of Exploration	ration	:			
	PROPOSED WORK SURVARY Refer to Proposed Plan Drilling Program I	of Exploration (thermal gradi	ration - ent wells).				
	Refer to Proposed Plan Drilling Program I Drilling Program I	of Exploration (thermal gradic I (diamond dril	ration - ent wells). 1 test wells)				
	PROPOSED WORK SURVARY Refer to Proposed Plan Drilling Program I	of Exploration (thermal gradic I (diamond dril	ration - ent wells). 1 test wells)				
	Refer to Proposed Plan Drilling Program I Drilling Program I	of Exploration (thermal gradic I (diamond dril	ration - ent wells). 1 test wells)				

		(Use	e additional space on reverse side o	of for
"Wond E. Merril	/ Supe	rvisor, Land Records	11/10/80	
Wendy P Merrill	TITLE	and Permits	CATE	
(This space for Pederal use)				
APPROVED BY	TITLE		CATE	
CONDITIONS OF APPROVAL, IF ANY:				

resit is required by law (30 U.S.C. 1023), regulations, 30 CFR 200.11; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Oriminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department of Agency of the United States is to any matter within its jurisdiction.

Form: 7873 9-1957	UNITED STATES CEPARTY GROUDICAL SURVEY, CO				Posm A: Budges	proved Sure to Mr.	
	OF MINISTAL ORI	THEN PERMIT			A. LEAGE LLES	IAL No.	
The U.S. Genloyical Survey requestioning with requisite Actua	ures this form or other Sup	ervisor approved form	to be prepared and f	iled in	N-20073	MANUR: BLN ()	FS
any lease operation.	Tapor visa.	The Supervisor mase	the second profite i	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	USGS	Gener (X	
ia. TYPE OF WORK: ORILL NEW W	ATT X X STORITE () DEELE	N () PLUT BACK ()	DIRECTIONALLY ERIDE	() STHER ()	McCoy	EMENT NUME	
15. ASIL TYPE: PRODUCTION () INJECTION () HEAT EXCHANGE () CHIER VATION () WATER SUPPLY () OTHER XX Geothermal test well						d. 252	MIT.
15. HALL STATUS: New Well NAME OF LODGER, OFERATOR					1 66-9	AREA	
AMAX Explorati	on, Inc.				Wildca	t	
	Avenue, Wheat R	idge, Colorado	80033		NW\u00e4SE\u00e4, Section 9,		
15. LOCATION OF WELL	Section 9, T22N,			ıth line	T22N, F	R40E, MDBM	
	N/A		700' from Eas		עוו. כסטודי		
16. DISTANCE FROM PROPOSED LOC	ATION TO NEALEST PROPERTY O	R_LÇASE LINE			Lander		
1,/00' from Ea	st line (section	line)	tien on our mire to		Nevada		
		LING, CORPLETED, OR APP	BIED FOR ON THIS LE		Unknow	n	
5,600' from 66	-8				1,280.0	signed (Well space) O acres	NG)
18. SAILLING MEDIA AND CHAFACT WATER () MUD XX FOAM X	SRIETICS: AIR XX	19. PROPOSED DESTU-	3.000' ^{20.} ELEVA	TICHS: ESTIM	TED XX FINAL		
William V. Hora XXX Total X	X saids ()	TRUE VERTICAL:1,000	· •	ENCE CATUM: 0	32 X X) DF () KB ()	RT (
Z1. EXISTING AND/OR PROPOSED C					ertal and of the to the	3072 1 31727 1	
to clearly distinguish the SIZE DF HOLE SIZE OF			GRADE	SETTING	DEPTH	QUANTITY OF CEN	ENT
		(Collars & Thr	eads				
Refer to Prop	osed Plan of Expl	loration					
			;				
		Ì	1		į		
22. PROPOSED WORK SUMMARY				<u> </u>			

Refer to Propo	sed Plan of Explo	oration -			•		
Drilling	Program I (therma	al gradient we	lls).				
Drilling	Program II (diamo	ond drill test	wells).				
Drilling	Program III (larg	ge oil field r	g).				
				•			
					•		
				(Use ad	ditional space	on reverse side -	nf fa
23.	Merrill	Suneri	isor, Land R			/10/80	
SETURED Wendy E Merry		TITE	and Permit		27.60	1-2-1-2-	
(This space for Federal use)							
APPROVED BY		TITLE			ZXXZ		
CONDITIONS OF APPROVAL, IF AMEL:							

ermit is required by law (30 U.S.C. 1023); regulations: 30 CFP 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal Offense to make a willfully false stacement or representation to any Department Agency of the United States is to any matter within its jurisdiction.

22. PROPOSED WORK SUMMARY

form	: TS33 9-1957		J JATES GEPAK: MICAL SURVEY, C						n Asprovot jet Durena No.	
77.0				ALLINA PERMIT	•			N-200	114142 507 - 1 073	
1:11	The U.S. Devioused Survey requires this form or other Supervisor approved form to be prepared and filed in <u>Estimate</u> with requisite actualments with the Supervisor. The Supervisor must approve this permit prior to my lease operation.							E. SUMMER MANAGES BLS. () F3 USGS Gener (X)		
la.	TYPE OF WORK: ORICO	NEW AFILL XX RE	323C () 1118C	EN () PLU)	SRAIG () XDAE	TIBEL VILLE	() STHER ()	McCo	igreement nime V	
Lb.	Geother	rmal test i	vell	IANUE () CAS	ERVATION () W	ATER SUPPLY ()	STREE XX	63-16		d. PERMIT
2.	AMAX Explor	208						Wilde	cat	
3.	7100 West 4			Ridae, Co	olorado_8	30033		SWINE	., a., ₃., м. [¼, Secti	on 16,
15.	At surface SW14NE1	4, Section	, , , , , , , , , , , , , , , , , , , ,		MDBM, 1650	from Eas	st line		, R40E, N	1DBM
	At proposed prod. zon	11/7				' from Non	rth line	Lande	er	
		n East line	e (section	ı line)				Neva	da	
17.	6,525' from		AREST WELL, DRI	LLING, COMPLE	TED, OR APPLIED	FOR ON THIS LE	ASE	Unkno	x. starting o OWN Assigned (ME).00 acre	LL SPACING)
13.	DATOLON ROOM AND CH XX CUM () RETAW			1	2,000-8,00 cal:2,000-8	0' (ATIONS: ESTIM	ATEC XX F	INAL () 5	,940' ka () rt (
21.	EXIDTING AND/OR PROPO to clearly distinguis	h the two progra		M (List exist						
_	SIZE OF HOLE SI	ZE OF CASING	WEIGHT PE		COUPLING Llars & Threads	GRADE	SETTING	DEPTH	TITZAUQ	/ OF CENENT
	Refer to	Proposed	Plan of E	Explorati	ion	;				
					·					

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

1. Dang E. Morrill		Supervisor,	Land Records	unarete.m.	11/10/80
Wendy F. Merrill	TITLE	and	Permits	2775	
(This space for Federal use)					
YE CHURRY	71712			ZATE	
CONDITIONS OF APPROVAL, IF ANY:					

rmit is required by law (30 U.S.C. 1023), regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States as to any matter within its jurisdiction.

Form: US93 9-1957 U	((CTE. CATELL CEPARTMENT	of the incorpor	Theorem and the second		Form	All row t	
	BBRRICA JAMEY, CORRES BILLING JAMESHIPSON	WATER BIVISION				et Burels No.	
The U.S. Geological Survey requires thi			in he cranered and (1)	lad to	N-200		
trulicate with requisite attuchments wany lease operation.					E. SUPPACE	e malalitik eth () FS Gener (X)	
la. TYPE OF WORK: DRILL NEW WELL XX) STHER ()	McCov	GREEMENT NAME /				
Geothermal test	TICH I / HENT EXCHANGE	() LAGERVATION () WATER SUPPLY ()	OTHER XX	F. WELL 110	0. 8EAMIT	
10. FILE STATIST NEW WE TO A STATE OF LEDGES, SERVATOR					22-16	DR AREA	
AMAX Exploration, 1	inc.				Wildo	., R., B. & M.	
7100 West 44th Aver	nue, Wheat Rido	<u>de, Colorado</u>	80033		│ NW¼NW¼, Section 16,		
At surface NW4NW4, Section	on 16, T22N, R4				122N,	R40E, MDBM	
At proposed prod. zone N/A		10	00' from Nort	h line	Churc		
16. DISTANCE FROM PROPOSED LOCATION TO					12. STATE		
950' from West line	HEAREST WELL, DRILLING) , completed, or app	LIED FOR ON THIS LEAD	E	Nevad	ld C. STARTING DATE	
4,000' from 66-8					Unkno	OWN ASSIGNED (WELL SPACING)	
18. DRILLING MEDIA AND CHAFACTERISTICS	٧٧	PROPOSED DEPTH	50 511111	Tava. Tantu		.00 acres	
WATER () MUD XX FOAM XX Othe	r() ME	ASURED: 2,000-8	,000'	ions: Estim		0,000	
		WE VERTICAL: 2,000			MASINGPEAD F	() DF () KB () RT (LANGE () OTHER ()	
21. EXISTING AND/OR PROPOSED CASING AND to clearly distinguish the two pro	grams)						
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOO	COUPLING (Collars & Thr	GRADE eads:	SETTING	SEFTH	QUANTITY OF CEMENT	
Refer to Propos	ed Plan of Exp	logation	. :				
					1		
	·	Ì					
22. PROPOSED WORK SUMMARY	J						
From OSES HOLK SULESKI							
Dofou to Duonical D					•		
Refer to Proposed P	am I (thermal		11s).				
Drilling Progr	am II (diamond	drill test	wells).				
Drilling Progr	am III (large	oil field r	ig).				
	•					•	
			•				
23.						ace on reverse side of for	
217177	Dern11	Superv	visor, Land Re and Permits		CATE	11/10/80	
Wendy F. Merrill			and remitts				
APPROVED BY		TITLE			CATE		
COMPANY OF ADDROVAL TO ANY		_					

rmit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.31; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department of Agency of the United States as to any matter within its jurisdiction.

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22. PROPOSED WORK SUMMARY

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

		(Use a	dditional space on reverse side	of for
"Loency E. Marrill	Su	pervisor, Land Records	11/10/80	
Wendy E Merrill	TITLE	and Permits	27.62	
(This space for Federal use)				
APPPOVED BY	TITLE		2712	

ermit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States is to any matter within its jurisdiction.

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Form: 2893 9-1987		T RU TRAVIJANISO BETAT. MTAVABRICO (YRVRUS DADI)					n Angrovel set Durens	vo.	
		CENTRIPACT DETETING DE	72117				TIPIAL NO.		
		em or other Supervisor the Supervisor. The Su				USGS	E MANAGES:	BLN () F5 Other (X)	
14. TYPE OF HORK: OR	THE XX THE WEST THE	P () NETESC () CAIN	L21 BACK () 21950	COMMENT PARTE) STHER ()	McCo	GREEMENT N. M	WE CE	
	iermal test w	() HENT EXCRANGE ()	CASERVATION () W	ATER SUPPLY ()	ХХ язитс	47-16		d. PERMIT	
10. A-11 STATUS NO	ERATOR						OR AREA		
AMAX Exp	loration, Inc	•				Wild			
 ADDRESS OF LEGISER 	, CPERATOR					-13. 3EC. T	., R., 3.;	м.	
/100 West	t 44th Avenue	, Wheat Ridge,	<u> Colorado 8</u>	0033		」 SE¼Sh	焻,Sec	tion 16,	
At surface SET4	At surface SE4SW4, Section 16, T22N, R40E, MDBM, 2350' from West line						T22N, R40E, MDBM		
ne proposed pred.	20116 14/ M		1000	' from Sou	th line	Lande			
1,000' fr	om South lin	NEST PROPERTY OR LEASE e of Section 1	6			Neva	da		
17. DISTANCE FROM PRO	POSED LOCATION TO NEA	REST WELL, DRILLING, CO	MPLETED, OR APPLIED	FOR ON THIS LEAS	E	1 .	X. STARTING	CATE	
7,300' fr	om 66-8					Unkno		WELL SPACING)	
							0.00 ac		
	CHAFACTERISTICS: A	IR XX 119. PRO	rosed depth ep:2,000-8,00	0' 20. ELEVAT	1005: ESTIM			6,040'	
	,		ERTICAL: 2,000-8			er X X) — Mat Easindhead) KB () RT OTHER ()	
		MENTING PROGRAM (List e	xisting program firs	t, followed by p	roposed prog	ram, and se	parate by a	sufficient sp	
SIZE OF HOLE	SIZE OF CASING	S) WEIGHT PER FOOT	COUPLING	GRADE	SETTING	DEPTH	CUANT	TTY OF CEMENT	
			(Collars & Threads)		<u> </u>				
		,				1			
Refer tø	Proposed Plan	n of Exploratio	dn 💮		}				
		-				-			

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

22. PROPOSED WORK SUMMARY

		(Use	e additional space on reverse side	of for
"Le Devoly E. Merrill	Sup	ervisor, Land Records	11/10/80	
Wendy F Merrill	TITLE	and Permits	27.60	
yThis space for Federal (se)				
APPROVED BY	TITLE		CATE	
CONDITIONS OF APPROVAL. IF AUTO				

regions for the United States uniqual Code (18 U.S.C. 1021); makes it a criminal offense to make a willfully false statement or representation to any Departments. The United States uniqual Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States is to any matter within its jurisdiction.

		(
£ot#	BI USGS 9-1957 UNITE STATES SPEAKTHENT OF THE 19TH STORM GROWING SCHWEY, COMMENTATION DIVISION		Form Approved Budget Bureva No.
	CHARMAN DESIGNATION PROMITS	}	4. CHASE CUREAL NO.
The !	U.S. Seployical Survey requires this form or other Supervisor approved form to be prepared	and filed in	N-19925
15:11	climate with requisite attachments with the Supervisor. The Supervisor must approve this person operation.		USGS SUPPLIES MALANDAN BLN () FS
	TYPE OF AGRY: DATED NEW ARELEXIX. REDATED () DESTEN () PROT BACK () DESCRIBED (MCCOY
	Geothermal test well	LY () OTHER XX	7. WELL NO. 3. PERMIT
2.	AMAX Exploration, Inc.		Wildcat
3.	ACCRESS OF LEGGERATOR		10. SEC. T., R., B., M.
	7100 West 44th Avenue, Wheat Ridge, Colorado 80033		NW4SE4, Section 20,
	At succide NW4SE4, Section 20, T22N, R40E, MDBM, 2250' from		T22N, R40E, MDBM
	At proposed prod. zone N/A 1600' from	m South line	Churchill
15.	The state of the s		12. STATE
	1,600' from South line of Section 20		Nevada
17.	DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON TO 10,500' from 66-8		Unknown
	10,300 110111 00-0	j	1 020 00 D DESCRIPTION
13.	DAILLING WEDIA AND CHAFACTERISTICS: AIR XX 119. PROPOSED DEFTH 20.	ELEVATIONS: ESTIMAT	1,920.00 acres
	WATER () MUD XX FORM XX Other () MEASURED: 2,000-8,000'		70 XX FINAL () 6,280' RXX MAT () DF () KB () RT
	TRUE VERTICAL2,000-8,000		SINGHEAD FLANCE () OTHER ()
	EXISTING AND/OR PROPOSED CASING AND COMENTING PROGRAM (List existing program first, follow to clearly distinguish the two programs)	wed by proposed progra	m, and separate by a sufficient ap-
_	SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT COUPLING GFA	NOS SETTING	TREVED 30 YTTTHAUQ
	Refer to Proposed Plan of Exploration		

22. PROPOSED WORK SUMMARY

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

			(Use addi	tional s	pace on reverse side of for
"Lendy E. Morrill		Supervisor, La	and Records		11/10/80
Wendy F. Merrill	TITLE	and Pe	ermits	2745	
(This space for Federal use)					
APPROVED BY	TITLE _			27AC	
CONDITIONS OF APPROVAL, IF ANY:					

imit is required by law (30 U.S.C. 1923); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1991) mikes it a criminal offense to make a willfully false statement or representation to any Departme or Agency of the United States is to any matter within its jurisdiction.

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	D.Š. Teplogical Eurvey te Litate with requisite Act Lease Decration.						USGS	E MANAGER:	Gener (X)
la.	TIPE OF WORK! CAILS HEW	AFILL XX SALVE	ILL () DOETEN () F	PLOT BACK () DIPEC	TICHALLY CRIBE () ITHER ()	McCo	areement n V	WE
<u>ъ.</u>	Geotherma	I test we	HENT EXCHANGE ()	CASERVATION () W	ATER SUPPLY ()	STREE XX	54-17	ű.	d. PERMIT
2.	NAME OF TERRES OF SEVENIES	1					1	OR AREA	
	AMAX Explorat						Wilde	cat R., B.,	
١.	ACCHESS OF LEGISE/OPERAT						1		
15.	At surface SW4NE4,	Section 1	Wheat Ridge, 7, T22N, R40E	, MDBM, 2300	from Eas		T22N,	Ŕ40E,	tion 17, MDBM
	At proposed prod. zone	N/A		2300	' from Nor	th line	Churc		
ló.	2,300 from N	lorth or E	ast line of S	ection 17			Nevac		
17.	DISTANCE FROM PROPOSED LO	CATION TO NEAR	EST WELL, DRILLING, CO	MPLETED, OR APPLIED	YOR ON THIS LEAD	Ξ	13. AFPRO		J DATE
	3,900' from 6	6-8					Unkno		
						,		32 ac	MELL SPACING) Mes
	DEFINITION MEDITA AND CHAFAC WADER () SETAM		MEASUR	rosed depth ED: 4,000-8,00	0'	ichs: Estikr			5,880'
			TRUE V	ertical: 4,000-8	,000' REFERE		tak (X)X si Basindhead i		OTHER :)
	EXISTING AND/OR PROPOSED to clearly distinguish the			xisting program fir	st, followed by p	roposed progr	an, and se	earate by	a sufficient sp
		F CASING	WEIGHT PER FOOT	COUPLING (Collars & Threads	GRACE	SETTING	DEPTH	QUAV	THE OF CENERAL
		ĺ							
	Refer to Prop	osed Plan	of Explorati	on					

22. PROPOSED WORK SUMMARY

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

		(Use a	dditional s	pace on reverse side of for-
" Dena E Merrill		Supervisor, Land Records		11/10/80
Wendy F. Merrill	7:7:2	and Permits	27AC	
(This space for Federal 4se)				
APPPOVED BY	_ TITLE		27AC	
CONFITTIONS OF ADDROUNT OF LINE.				

rmit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1091) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States is to any matter within its jurisdiction.

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Form: 1813)-,		TED STATES CEPARTMENT OF JUNICAL SURVEY, COMSERVAT					n Angrova i jes Durenu	No.
		OLAGRIBANT DSICTION B	! 7:::7				LLEIAL NO.	
The U.S. Sector triviliante with any reuse oper.	nical Eurvey requires this Tregulation Attachments With Tition.	form or other Supervisor the Supervisor. The S	approved form to be upervisor must appro-	prepared and fi	led in rior to	USGS	E MANAGES	SLN () FS Other (X)
la. THRE OF A	EXC. OFFICE NEW WHITE XX 3	COMILL () DEELEN ()	PLU: BACK () DIPECT	CONNELY ERILL .	/ OTHER ()	McCo	GPEEMENT N	/vz
	Geothermal test	well	ERSERVATION () WA	NTER SUPPLY ()	отивк ХХ	26-8	5.	d. PERMIT
2. WARE OF D	SUZE/OFERATOR	· · · · · · · · · · · · · · · · · · ·				7. 5:5:2		
AMA	Exploration, In	IC.				Wilde		
3. ADDAESS OF	LEDDEL/OPERATOR					1	., R., B.;	
/100	<u>West 44th Avenu</u>	<u>ie, Wheat Ridge.</u>	<u>, Colorado 8</u>	0033		NW4SW	¼, Sec	tion 8,
	NW4SW4, Section	8, T22N, R40E,				T22N,	R40E,	MDBM
At propose	d prod. zone N/A		1600' f	rom South	line	Churchill		
950	from West line	ENCEST PROPERTY OR LEASE Of Section 8	LINE .			Nevac	<u> </u>	
17. Distance s	ROM PROPOSED LOCATION TO H	EAREST WELL, DRILLING, CO	OMPLETED, OR APPLIED	FOR ON THIS LEA	SE	13. AFPRO		J CATE
2,32	5' from 66-8							WELL SPACING)
	EDIA AND CHAFACTERISTICS:	AIR XX 119. PRO	OFOSED DEPTH	20. ELEVA	nons: Estim	ATED (XX E	INAL ()	5 5 7601
()	MUD XX FOAM XX Other	() MEASU	≈0:4,000-8,000)'		****		3,700
			/ERTICAL,4,000-8,			CASTNOMEAD !	FLANGE ()	
	MB/CR PROPOSED CASING AND distinguish the two progr		existing program firs	t, followed by p	proposed prog	ram, and seg	parate by	sufficient ap
SIZE OF HO		WEIGHT PER FOOT	COUPLING (Collars & Threads)	GRADE	SETTING	HT93C	QUANT	TITY OF THENT
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					1			
Refe	r to Proposed Pla	an of Explorati	on					

Refer to Proposed Plan of Exploration Drilling Program I (thermal gradient wells).
Drilling Program II (diamond drill test wells).
Drilling Program III (large oil field rig).

22. PROPOSED WORK SUMMARY

		(Us	e additional spac	e on reverse side of for-
Donely E. Morrill		Supervisor, Land Records	1	1/10/80
Mendy F. Merrill	TITLE	and Permits	2740	
(This upace for Federal use)				
APPHONED BY	TITLE _		SATE	
CONDITIONS OF APPROVAL, IF ANY:				

rmit is required by law (30 U.S.C. 1023); regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1071) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States as to any matter within its jurisdiction.

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	D STATES SEPARTMENS				Form A trave! Budget Durens Mos		
	OF YOUR PARE OFFICE				A. LAME .	-AAA MA	
The U.S. Geological Survey requires this (triblicate with requisite attuenments with					N-174	51 E MV(A)(2) BLN () FS	
any lease operation.					USGS	Ocher (X)	
1a. TYPE OF WORK: OSTILL NEW ARLL XX 31					i_McCoy	/	
Geothermal test v		E () DASERVATION ()	WATER SUPPUR ()	STREE XX	45-5	o. To To Tall seamer	
2. NAME OF LOUGHE, DEW ME		Wildo					
AMAX Exploration, Inc			., R., B.1 M.				
7100 West 44th Avenue			14, Section 5,				
At surface NE4SW4, Section At proposed prod. zone N/A	5, T22N, R4		' from West ' from Sout		122N,	R40E, MDBM	
.,,				1 1111e	Churc		
16. DISTANCE FROM PROPOSED LOCATION TO HE 2250' from South line	e of Section	1 5			Nevac	ia	
17. DISTANCE FROM PROPOSED LOCATION TO NE	AREST WELL, DRILLIN	G, COMPLETED, OR APPLIE	D FOR ON THIS LEAS	ε	Unkno	C. STARTING DATE	
6,000' from 66-8					14. ACRES AESIGNED WELL SPACENCY 2,546.04 acres		
18. DRILLING MEDIA AND CHAFACTERISTICS: WATER () MUD XX FOAM XX Other (AIR XX µ9.	PROFOSED DEPTH EASURED: 5,000-8,0	001 20. ELEVAT	ichs: Estim			
MATERIAL TOWN AND SCHOOL OF		ERUE VERTICAL: 5,000-	ì			() OF () KB () RT (
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SIZE OF HOLE SIZE OF CASING	WEIGHT PER FO	COUPLING (Collars & Thread	GRADE	SETTING	DEPTH	QUANTITY OF CENENT	
Refer to Proposed Pla	n of Explor	ation					
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				!			
22. PROPOSED WORK SUMMARY							
Refer to Proposed Pla	n of Explor	ation -				V	
Drilling Program	ı I (thermal	gradient well:					
Drilling Program	II (diamon	d drill test w	ells). `				
Drilling Program	ı III (large	off field rig) •				
				*			
					•		
					arer		
23.	`		1 - 1 5			ace on reverse side of for-	
Wendy E Merrill	evrill	Supervis	sor, Land Re and Permits		ZATS	11/10/80	
WEMOY BY MECHANIA							

rmit is required by law (30 U.S.C. 1023); regulations; 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal offense to make a willfully false statement or representation to any Department Agency of the United States as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL, IF ANY:

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formi	USGS 9-1957		D STATES CHARTERT OF T PRICAL SURVEY, CONSENATIO					m Angrow t dec Burena No.
	*		CENTRIPHAT DRITTING BUT	<u> </u>			i. Livina	Jurial Se.
	a destance.	Eventur va miran ebila i	form or other Supervisor a				N-188	851
			is the Supervisor. The Sup				E. SUPTIM	JE MANAGUR: BEN () FS
any le	ease oreration.				•		USGS	Other (X)
14.	TYPE OF HURK:	DRILL NEW WELL XX RE	JRILL () SEETEN () PI	COT BACK () DIRECT	. DIERI VLIMET	1 STHER ()	1	AGREEMENT NAME
							<u>McCo</u>	
<i>ب</i> ت. ،	Gen 18577 1114	thermal test	HEAT EXCHANGE ()	LASERVATION () W	ATER SUPPLY ()	XX SERTC	7. 45.22 :	io. PERMIT
Is.	NAME OF LEGISER.	Tew well	· · · · · · · · · · · · · · · · · · ·				36-7	OR AREA
2. :							Wild	
-	AMAX EX Cosss of Lado	<u>ploration, In</u>	С.					7., R., 3.4 M.
٠			<u>e, Wheat Ridge,</u>	Colonado 9	UU33		NET CI	
15. :	CCATION OF WEL	C 44CH MACHIN	e, Mileat Kiude,	CUTUTAUU O	0033			炶, Section 7,
,	At surface NE	₄SW¼, Section	7, T22N, R40E,	MDBM, 1550'	from West	line	T22N	, R4OE, MDBM
,	At proposed prod	d. zone N/A		1600'	from South	line	11. COURT	TY
								chill
16. 3	R MORE EDINATELE H D A B L	REPOSED LOCATION TO ME	ANGEST PROPERTY OR LEASE I	SMI			12. STATE	
,,			e of Section 7				Neva	
17.			AREST WELL, DRILLING, COM	PLETED, OR APPLIED	FOR ON THIS LEAD	. <u>2</u>	1	DX. STARTING DATE
	/,000' 1	from 66-8					Unkn	OWN ASSIGNED (WELL SPACING)
								3.32 acres
		HID CHAFACTERISTICS:		OSED DEPTH	20. ELEVAT	ions: Estim	TED XX E	TNAL () 5.850
-	CUM () RETAY	XX FOAM XX Other () MEASURE	°•6,000-8,000)'			. ,
			TRUE VE	.8-000 , 6:RTTCAL:6	,000' REFERE			r() of() kb() RT (flange () other ()
				isting program firs	t, followed by p			parace by a sufficient apa
	o clearly dist: SIZE OF HOLE	inguish the two groots	ms) WEIGHT PER FOOT	COUPLING	GPACE	SETTING	25244	CUNSTITY OF CEMENT
	0	3122 Or CA31.44		(Collars & Threads)	diano.	321.11.10	J2	gozanii or czani
	20"		,			50	!	
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Refer to Proposed Plan of Exploration - Drilling Program III (large rotary rig).

22. PROPOSED WORK SUMMARY

50'

200' to 800'

Surface to TD

		(Use a	dditional space on reverse	side of for
Wende E. Morrill	Su	pervisor, Land Records	11/10/80	
Wendy (Merrill	TITLE	and Permits	2765	
This space for Pederal (se)				
APPROVED BY	TITLE		2775	
CONDITIONS OF LODGOVAY OF LINE.				

rimit is required by law (30 U.S.C. 1023), regulations: 30 CFR 270.71; Federal Geothermal Lease Terms and Stipulations and other regulatory requirements. The United States Criminal Code (18 U.S.C. 1001) makes it a criminal Offense to make a willfully false statement or representation to any Department of Agency of the United States is to any matter within its jurisdiction.