## GTLT - \_\_\_\_5\_\_\_\_

## Amax Exploration, Inc. (Sierra County)

GTR-290; 1124-1 & 1124-4

						(_'i	<u></u>	<u></u>	Formu	101
NO. OF COPIES RECE	VED	NE	W MEXICO OIL CONS	ERVA	TION COMMISS	ION	APR	2 2 1982	Adopted	10/1/7
DISTRIBUTION	<b></b> ,		P. O. Box 2088,	Santa	Fe 87501		CONSER	. A De ast as		
N.M.B.M.						, OIL	SA		VISION Fype of Lease	
U.S.G.S.	1	APPL	ICATION FOR PER	міт	TO DRILL, DE	EPEN,		STATE	FE	ε 🗌
Operator Land Office		OR PLI	UG BACKGEOTHI	ERMA	AL RESOURCE	ESWEL	.L	GTR-	290	
							•			IIII
to Tupe of Work		 V			Plue Pack			7. Unit Agree	ement Name	UIII.
Ta. Type of work			Deepen	Т	· ·	∟	ļ	. <u>N/</u>	Ά	
b. Type of Well	Low-Tem	np Thermal		temp Inject	tion/Disposal			8. Farm or L State	ease Name (1124)	
2. Name of Operator		·						9. Well No,		
AMA	X Explo	oration, Inc.						10 Field and	5 Pool or Wildow	
17	07 Cole	Blvd.; Golden	, Colorado 80	401				Wi7	dcat	
4. Location of Well	UNIT LETT	TERI_LOCA	TED <u>5100</u> FEET	FRO	M THE West	t	LINE			
and 2900 Fe	ET FROM	THE North LINE OF	SEC. 32 TWP.	15S	RGE. 7	W	NMPM			
				$\langle \rangle \rangle$		M		12. County Sionna		
	<i>HHH</i>			H.		HH	HHH		milli	M
				$\overline{//}$		$\overline{III}$				
				19.	500 Proposed Depth	19	A. Formatio Santa	n Fe	20. Rotary or C.T. Rotary	
21. Elevations (Show V	whether DF,	, <i>RT</i> , <i>etc.</i> ) 21A. Kir	nd & Status Plug. Bond	218	3. Drilling Contra	ctor	+	22. Approx	. Date Work will st	art
5,680.	llgr We	11 Low Tempera	ature Well or (	<u>lun</u> Geot	hermal Obs	<u>resen</u> ervat	ion Wel	1 Bons	20, 1902	
			PROPOSED CASING	AND C	CEMENT PROGR	AM				
SIZE OF HOLE	ŧ	SIZE OF CASING	WEIGHT PER FOO	T	SETTING DEP	ТН	SACKS OF		EST. TOP	
N/A		N/A	N/A					n		
				<u> </u>						
AM	AX Expl	oration, Inc.	proposes to d	rill	one shall	ow te	emperatu	re	Ding	
gr	adient	hole to a max	imum depth of	500'	. This ho	le wi	11 be 1	Inspec	XIONC 1	
, ur		vich a diamond	ur 111.		5-2:	9-0		OK		
								<u>C</u>		
									5	
		10 DAVS					TO	BE NOT	IFIED	
- VA	16 FOR -	90 0410			INTION COM	VIMIS	NNING	OPERATIO	UN2	
APPROVAL VAL	KES T	UNDERWAY	OIL CONS	SERV	HOURS OF	BEG	111.1.1.1			1
UNLESS DF			WITHIN							
N ABOVE SPACE DES cone. Give blowout prev	CRIBE PRO	OPOSED PROGRAM: am, if any.	If proposal is to deepe	n or p	lug back, give dat	ta on pr	esent produc	ctive zone and	proposed new pro	ductive
hereby certify that the	Holtar	on above is true and con ewe. Attorney-	mplete to the best of m in-Fact	ny kna	wledge and belie	f.				
igned arolyn	197A	oltgrewe		t As	ssistant		<i>[</i>	Apr	il 20, 1982	ļ
(This	space for S	State Use)		· ·						
$\Box$	<b>. ^</b> '	n 1							*1	1
	for	Uling	SENIOR	PETRO	DLEUM GEOLOG	IST		LL .	123/87	

. 4				TOTRIC ;;	574117	Form G-101 Adopted 10/1/7
NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSE	RVATION COMMISSION	APR	22 1982	
DISTRIBUTION		P. O. Box 2088, 5	ianta Fe 87501			
File	1			UIL CUNSER	VATION DI	VISION
N.M.B.M.				SA		Type of Lease
U.S.G.5.	APPLI	CATION FOR PERM	AIT TO DRILL, DEEP	EN,	5.a State Lea	FLE
Land Office		G BACKGEUTHER	RMAL RESOURCES V	VELL	GTR-	-290
1a. Type of Work Drill	X) C	Deepen 🗌	Plug Back	]	7. Unit Agre	ement Name
to The second Way Geother	mal Producer	т	emp Observation	(	N,	<u>/A</u>
Low-Ten	np Thermal	In	jection/Disposal		State	(1124)
2. Name of Operator					9. Well No.	
AMAX Expl	oration, Inc.		u			- 5
3. Address of Operator	Plvd · Coldon	Colorado 80/	101		10. Field and	l Pool, or Wildcat Idcat
4. Location of Well			West			
UNITLET		ED_0100_FEETF	-ROM THE	LINE		
AND 2900 FEET FROM	THE North LINE OF S	$_{\text{SEC.}}$ 32 $_{\text{TWP.}}$	155 <sub>RGE.</sub> /W			
					Sierr	a ()))))))))))
	<i>HHHHHH</i>			<u>tttttt</u>	<u>()//////</u>	tiittiittiinn.
				<u>THHH</u>		
			19. Proposed Depth	19A. Formatio	211	20. Rotary or C.T.
			500'	Santa	Fe	Rotary
5 680' ar	\$10.00	N Multiple-	unknown at pres	sent	April	26, 1982
We	11 Low Temperat	ture Well or Ge ROPOSED CASING AN	eothermal Obser	vation Wel	1 Bons	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
N/A	N/A	<u>N/A</u>	N/A	N/	<u>A</u>	N/A
	<u> </u>					
AMAX Expl gradient drilled w	oration, Inc. p hole to a maxim th a diamond o	proposes to dr <sup>.</sup> num depth of 50 drill.	ill one shallow DO'. This hole	temperatu will be	ire	
APPROVAL VALID FOR PERMIT EXPIRES <u>7</u> UNLESS DRILLING U	90 DAYS 22-82 INDERWAY	OIL CONSE WITHIN	ERVATION COMM 24 HOURS OF E	IISSION TO EGINNING	BE NOT	IFIED ONS
APPROVAL VALID FOR PERMIT EXPIRES 7 UNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNLESS DRIVENTES PROVINES PROVINE	90 DAYS 22-82- JNDERWAY DPOSED PROGRAM: If	DIL CONSE WITHIN proposal is to deepen	ERVATION COMM 24 HOURS OF E or plug back, give data o	ISSION TO EGINNING	BE NOT OPERATI	IFIED ONS
APPROVAL VALID FOR APPROVAL VALID FOR PERMIT EXPIRES 7 UNLESS DRILLING I UNLESS DRILLING I UNLESS DRILLING I In ABOVE SPACE DESCRIBE PRO Zone. Give blowout preventer progra I hereby certify that the informatio Carglyn J. Holtgre Signed Workyn J. Holtgre	90 DAYS 22-82 JNDERWAY DPOSED PROGRAM: If am, if any. n above is true and comp We, Attorney-in Hignewe	proposal is to deepen plete to the best of my n-Fact TitlePermit	RVATION COMM 24 HOURS OF E or plug back, give data o knowledge and belief. Assistant	ISSION TO EGINNING	BE NOT OPERATION	IFIED DNS proposed new productive il 20, 1982
APPROVAL VALID FOR APPROVAL VALID FOR PERMIT EXPIRES 7 PERMIT EXPIRES 7 UNLESS DRILLING L UNLESS DRILLING L UNLESS DRILLING L IN ABOVE SPACE DESCRIBE PRO Zone. Give blowout preventer progra I hereby certify that the informatio Carolyn J. Holtgre Signed This space for S Carl	90 DAYS 22-82 JNDERWAY DPOSED PROGRAM: If am, if any. n above is true and comp we, Attorney-in We, Attorney-in Structure We Use) Whog	DIL CONSE WITHIN proposal is to deepen plete to the best of my n-Fact Permit	ERVATION COMM 24 HOURS OF E or plug back, give data o knowledge and belief. Assistant TROIFUM GEOLOGIST	ISSION TO EGINNING	BE NOT OPERATI	IFIED ONS Proposed new productive fil 20, 1982

	NE GEOTHERMAL RESOU	W MEXICO OIL CONS P. O. BOX 2088 RCES WELL LOCA	ERVATION COMMIS	Form G-102 Adopted 10/1
Operator	All dista	nces must be from the Lease	State (1124)	weither 5
Unit Letter Sec	tion Township	Ra	nge Cour	SANTA FE
Actual Footage Location	32 of Well:	155	/W	Sierra
5100 Ground Level Elev.	Producing Formation	line and d Pool	2900 feet fr	om the NOTTN line Dedicated Acreage: N / A
1. Outline the	acreage dedicated to the s	ubject well by color	ed pencil or hachure	marks on the plat below.
N/A 2. If more that and royalty) N/A 3. If more tha communitiz:	n one lease is dedicated t n one lease of different c ntion, unitization, force-po	o the well, outline whersip is dedicated oling, etc? N/A	each and identify the	e ownership thereof (both as to working interest ne interests of all owners been consolidated by
If answer is "no necessary.)	No If answer is "ye o," list the owners and tr	s," type of consolid act descriptions wh	ationich have actually bec	n consolidated. (Use reverse side of this form if
forced-pooling,	or otherwise) or until a no	on-standard unit, elir	ninating such interest	s, has been approved by the Commission.
				CERTIFICATION
D	C	В	А	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
 Е	               			Name Carolyn J. Holtgrewe (brolyn) Jollgrewe Position Atdorney-In-Fact Permit Assistant Company AMAX Exploration, Inc. Date April 20, 1982
L	К   К 	J		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.
M	- +	0	P	Date Surveyed Registered Professional Engineer and/or Land Surveyor
0 330 6ab 90	1 1320 1650 1980 2310 26	40 2000 15	20 1000 500	Certificate No.

	Form G-103
P. O. Box 2088, Santa Fe 87501	
File / IIIN 20	1983
	(UIL)
U. S. G. S ON OIL CONSERVATION OIL CONSERVATION	SI Davicate Type of Lease
Operator GEOTHERMAL RESOURCES WELLS SANTA	FE State E Fee X
Land Office	5.a State Lease No.
	N/A
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit –" (Form G-101) for Such Proposals.)	
1. Type of well Geothermal Producer Temp. Observation	7. Unit Agreement Name
Low-Temp Thermal Injection/Disposal	N/A
2. Name of Operator	8. Farm or Lease Name
AMAX Exploration, Inc.	N/A
3. Address of Operator	9. Well No.
1707 Cole Boulevard, Golden, CO 80401	1124-1
4. Location of Well	10. Field and Pool, or Wildcat
Unit Letter A 70 Feet From The <u>North</u> Line and <u>65</u> Feet From	Wildcat
The <u>East</u> Line, Section <u>5</u> Township <u>16S</u> Range 7W NMPM.	
11111111111111111111111111111111111111	12 County
	Sierra
<u>AIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u>	Stella ///////////////////////////////////
To. Check Appropriate Box To Indicate Nature of Notice, Report or Other Da	ita
NOTICE OF INTENTION TO: SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON	
TEMPORARILY ABANDON	PLUG & ABANDONMENT
PULL OR ALTER CASING U CHANGE PLANS U CASING TEST AND CEMENT JOB	
. OTHER	
OTHER	
•	
17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, inclus proposed work) SEE RULE 203. Method of Completion: Hole No. 1124-1 was drill completed on 1-5-82. Drill stem was removed from the hole, a 3/4" I been capped on the bottom, was inserted into the holes. The pipe was and capped. The area around the intruded pipe was then backfilled within 10 feet of the surface and then a 10 foot cement plug was place below. (Vale was drilled to 2001)	Iding estimated date of starting any Lled and PVC pipe, which had filled with water th drill cuttings ed at the top of the
note. (Hote was drifted to 300')	
Abandonment Procedure: The hole was abandoned on 5-24-83. The 3/4 off below ground level. The upper 3m (10 feet) was filled with cemen depression was filled with soil and raked to restore the site to its appearance and contour. All drilling-related refuse was removed and o properly. Site was restored properly and in accordance with your abar requirements.	" PVC pipe was cut t. Any remaining original disposed of ndonment procedure
18. I hereby certify that the information above is true and complete to the best of my knowledge and belief	
SIGNED TELE Mary ON Pelation	DATE 6/15/83
P.S.A.	
APPROVED BY UND TITLE DEGLOY ST	DATE5
CONDITIONS OF APPROVAL ANY	· · · ·

	~-	400001/44	V	
JONDITIONS	OF	APPROVAL,	۳F	ANY

NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSERV P. O. Box 2088, San	ATION COMMISS	네니네네. Nov 2	u. w/3時 3 1981 ]]	Form G-101 Adopted 10/1/74
File /			مين ي ال معن ا	مىلىيە بىرىمىيە بىرىمىيە مىلىچى مەربىيە بىرى بىرى قىلايات بىرى		negat f
N.M.B.M. /				SANT	5Indicate T	ype of Lease
U.S.G.S. /	APPLI	CATION FOR PERMI	T TO DRILL, DEEPEN	١,	STATE	FEE X
Operator /	OR PLU	G BACKGEOTHERN	AL RESOURCES WE	LL	5.a State Lea:	se No.
Land Office					N/F	
	· · ·	•				
1a. Type of Work Drill 🕅	) c	Deepen 🗌	Plug Back 🔲		7. Unit Agree	ment Name A
b. Type of Well Geothern	nal Producer 🔲	Tei	mp Observation 🛛		8. Farm or Le	ease Name
Low-Tem	p Thermal 🛛	Inje	ction/Disposal 🗌		N/)	Ą
2. Name of Operator	<u> </u>	· · · · · · · · · · · · · · · · · · ·	·····		9. Well No.	
AMÁX Exploratio	n, Inc.				11:	24-1
3. Address of Operator 1707 Cole Boule	vard; Golden,	Colorado 80401			10. Field and Wil	Pool, or Wildcat dcat
4. Location of Well			OM THE North			
AND 65 FEET FROM T	THE East LINE OF	sec. 5 twp. 16	S <sub>rge.</sub> 7W	NMPM		
			<u>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</u>	<u>IIIIII</u>	12. County	XIIIIII
					Sierra	
					IIIIII	
		IIIIIII),	9. Proposed Depth 500'	9A. Formati Tertiary	seds &	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF,	<i>RT</i> , etc.) 21A. Kind	& Status Plug. Bond 2	1B. Drilling Contractor	<u>voica</u>	22. Approx	. Date Work will start
5,560' GR	\$10,00	<u>0 Multiple-</u> In	<u>ot known at thi</u>	<u>s time</u>	<u> </u>	<u>ber 1981</u>
	Well Low Tem	perature Well o Roposed casing and	r Geothermal Ub CEMENT PROGRAM	servatio	n Well Bo	na
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS O	F CEMENT	EST. TOP
4-3/4" - 6-3/4"	N/A	NZA	N/A	N	/A	N/A
· · · · · · · · · · · · · · · · · · ·			Ω/_Ω		A	
					· .	
<pre>(1) Drill (2) Run 3, (3) Cement (4) Fill p (5) Measur (6) Insta</pre>	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pir one foot below	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC pe and cement plu original group	5-25-8 D pe or iron pipe ng - inside and nd level, and s	3 I C outside urface t	of pipe o be rest	- to cored.
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measun</li> <li>(6) Insta</li> <li>At abandonmetee</li> <li>be at least</li> </ul>	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pin one foot below	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC cand cement plu original group	5-25-8 D pe or iron pipe 1g - inside and nd level, and s	3 I C outside urface t	of pipe obe rest	- to cored. 90 DAYS
<pre>(1) Drill (2) Run 3, (3) Cement (4) Fill p (5) Measur (6) Insta At abandonme be at least</pre>	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pin one foot below	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC meand cement plu original groun	5-25-8 D pe or iron pipe ng - inside and nd level, and s	3 I outside urface t	of pipe obe rest	- to cored. <u>90</u> DAYS 22-82-
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measur</li> <li>(6) Insta</li> <li>At abandonme be at least</li> <li>OIL CONSERVATION</li> <li>WITHIN 24 HOURS</li> </ul>	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pin one foot below COMMISSION	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC cand cement plu original group	5-25-8 D pe or iron pipe lg - inside and nd level, and s AP	3 I outside urface t PROVAL V PERMIT E UNI ESS	of pipe o be rest ALID FOR DRILLING U	- to tored. $\frac{90}{22-82}$ NDERWAY
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measur</li> <li>(6) Insta</li> </ul> At abandonme be at least OIL CONSERVATION WITHIN 24 HOURS IN ABOVE SPACE DESCRIBE PRO	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pin one foot below COMMISSION S OF BEGINNIN DPOSED PROGRAM: 1	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC e and cement plu original groun TO BE NOT!FIED G OPERATIONS f proposal is to deepen of	5-25-8 D pe or iron pipe 1g - inside and nd level, and s AP	3 I outside urface t PROVAL V DERMIT E UNLESS present produ	of pipe o be rest ALID FOR DRILLING U	- to cored. <u>90</u> DAYS <u>22-82-</u> NDERWAY Proposed new productive
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measun</li> <li>(6) Insta</li> </ul> At abandonme be at least OIL CONSERVATION WITHIN 24 HOURS IN ABOVE SPACE DESCRIBE PRO zone. Give blowout preventer program I hereby certify that the information	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pir one foot below COMMISSION S OF BEGINNIN DPOSED PROGRAM: I am, if any. n above is true and com	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC me and cement plu original ground TO BE NOT!FIED G OPERATIONS f proposal is to deepen of proposal is to deepen of proposal is to deepen of	5-25-8 D pe or iron pipe 1g - inside and nd level, and s AP	3 I outside urface t PROVAL V DERMIT E UNLESS present produ	of pipe of rest obe rest ALID FOR TRES 2- DRILLING U	- to cored. <u>90</u> DAYS <u>22-82</u> NDERWAY proposed new productive
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measur</li> <li>(6) Insta</li> <li>At abandonme be at least</li> </ul> OIL CONSERVATION WITHIN 24 HOURS IN ABOVE SPACE DESCRIBE PRO zone. Give blowout preventer progra I hereby certify that the information Carolyn J. Holt Signed Carolyn J. Holt	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pir one foot below COMMISSION 5 OF BEGINNIN prosed PROGRAM: 1 am, if any. n above is true and com grewe, Attorney Marcure	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC reand cement plu original ground TO BE NOTIFIED G OPERATIONS f proposal is to deepen of pipete to the best of my k y-in-fact _ Title _ Permit As	5-25-8 D pe or iron pipe ag - inside and nd level, and s AP I r plug back, give data on inowledge and belief.	3 I outside urface t PROVAL V PERMIT E UNLESS present produ	of pipe of rest ALID FOR TRES 2- DRILLING U active zone and Date_Nover	- to tored. $\frac{90}{22-82}$ NDERWAY proposed new productive
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measun</li> <li>(6) Insta</li> </ul> At abandonme be at least OIL CONSERVATION WITHIN 24 HOURS IN ABOVE SPACE DESCRIBE PRO zone. Give blowout preventer progra I hereby certify that the information Carolyn J. Holt Signed Carolyn J. Holt Signed Carolyn J. Holt	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pin one foot below COMMISSION S OF BEGINNIN DPOSED PROGRAM: I am, if any. n above is true and com grewe, Attorney Market Use	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC e and cement plu original ground TO BE NOT!FIED G OPERATIONS f proposal is to deepen of mplete to the best of my k y-in-fact _ TitlePermit_As	5-25-8 D pe or iron pipe lg - inside and nd level, and s AP I r plug back, give data on snowledge and belief.	3 I outside urface t PROVAL V DERMIT E UNLESS present produ	of pipe of rest obe rest ALID FOR TRES DRILLING U active zone and Date	- to cored. <u>90</u> DAYS <u>22-82-</u> NDERWAY proposed new productive mber 19, 1981
<ul> <li>(1) Drill</li> <li>(2) Run 3,</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measun</li> <li>(6) Insta</li> </ul> At abandonme be at least OIL CONSERVATION WITHIN 24 HOURS IN ABOVE SPACE DESCRIBE PROZED Zone. Give blowout preventer progra I hereby certify that the information Carolyn J. Holt Signed Carolyn J. Holt Signed Carolyn J. Holt Carolyn State for State APPROVED BY	hole 4-3/4" - /4" PVC or 3/4" t top 10' of ar pipe with water re temperature 11 cement plug ent, top of pir one foot below COMMISSION S OF BEGINNING DPOSED PROGRAM: I am, if any. n above is true and com grewe, Attorney Marcelone	6-3/4" to TD ' iron pipe to T nulus around pi of hole inside the PVC me and cement plu original ground TO BE NOTIFIED G OPERATIONS t proposal is to deepen of pipete to the best of my k y-in-fact Fermit_AS	5-25-8 D pe or iron pipe ng - inside and nd level, and s AP I r plug back, give data on inowledge and belief. Ssistant	3 I outside urface t PROVAL V DERMIT E UNLESS present produ	of pipe of pipe o be rest ALID FOR TRES 2 DRILLING U active zone and Date Nover	- to cored. $\frac{90}{22-82}$ NDERWAY proposed new productive mber 19, 1981 24/81

NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSERV P. O. Box 2088, San	ATION COMMISSION	्रिजिन्हि NOV 2	3 1981	Form G-101 Adopted 10/1/74
File /	4		ັນ		A	
N.M.B.M. /				SANT	5. Findicate T	ype of Lease
U.S.G.S. /	APPLI	CATION FOR PERMIT	TO DRILL, DEEPE	N,	STATE	FEE X
Operator /	OR PLU	G BACKGEOTHERN	AL RESOURCES W	ELL	5.a State Lease	e No.
Land Office			,		N/A	
			١			
1a. Type of Work Drill 🕅	] [	Deepen 🗌	Plug Back 🔲		7. Unit Agreen	nent Name
b. Type of Well Geothern	nal Producer 🔲	Ter	np Observation		8. Farm or Lea	ise Name
Low-Tem	ip Thermal	Inje	ction/Disposal		N/A	
2. Name of Operator AMAX Exploratio	n, Inc.				9. Well No. 112	4-1
3. Address of Operator 1707 Cole Boule	vard: Golden,	Colorado 80401			10. Field and I Wild	Pool, or Wildcat
4. Location of Well	Δ	70	Nonth			
UNITLETT	FER <u>A</u> LOCAT	ED /V FEET FR	OM THE NOT CH	LINE		
AND 65 FEET FROM	THE East LINE OF S	SEC. 5 TWP. 165	S <sub>rge.</sub> 7W	NMPM		
					12. County	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	444444444444444444444444444444444444444	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	Sierra	
					////////	
<u> </u>			Proposed Depth	104 Formati		
			500'	Tertiary	°seds & ∣́	Rotary
21. Elevations (Show whether DF,	<i>RT, etc.</i> ) 21A. Kind	& Status Plug. Bond 21	B. Drilling Contractor	Volca	nics	Date Work will start
5,560' GR	\$10,00	<u>O Multiple- no</u>	ot known at thi	<u>s time</u>	Decemb	er 1981
	Well Low Tem	perature Well on ROPOSED CASING AND	r Geothermal Ob семемт рводвам	servatio	n Well Bon	ıd
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH			
4-3/4" - 6-3/4"	N/A	N/A	N/A	N	/A	EST. TOP
	<u> </u>					
<ul> <li>(1) Drill</li> <li>(2) Run 3/</li> <li>(3) Cement</li> <li>(4) Fill p</li> <li>(5) Measur</li> <li>(6) Instal</li> <li>At abandonme</li> <li>be at least</li> </ul>	hole 4-3/4" - (4" PVC or 3/4" t top 10' of an pipe with water re temperature 11 cement plug ent, top of pip one foot below	6-3/4" to TD iron pipe to TI nulus around pip of hole inside the PVC of eand cement plu original groun	) De or iron pipe g - inside and d level, and s	outside surface t	of pipe o be rest	- to ored.
						DAYS
			AP	PROVAL V	ALID FOR 7	7-82
OIL CONSERVATION	COMMISSION T	O BE NOTIFIED		PERMIT EX	PIRES Z-A	DERWAY
WITHIN 24 HOURS	S OF BEGINNING	G OPERATIONS		UNLESS L	)RILLING ON	
IN ABOVE SPACE DESCRIBE PRC zone. Give blowout preventer progra	POSED PROGRAM: If	proposal is to deepen or	plug back, give data on	present produ	ctive zone and p	proposed new productive
I hereby certify that the information	above is true and comp	plete to the best of my kn	owledge and belief.			
Signed arolyn Jo	lgrewe, Accorney		sistant	<i>I</i>	DateNovemb	ber 19, 1981
(This space for St.	ate Use)					
APPROVED BY Carl	Ulsog	TITLE SENIOR PET	OLEUM GEOLOGIST	C		24/81

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v., 3x	NE	W MEXICO OIL CONSEF P. O. BOX 2088 SA IRCES WELL LOCATI	NTA FE 87501	GE-DEDICATION	VIIII Adopt	G-102 ted 10/1/74
	All dista	nces must be from the ou	ter boundaries of the	Section. V 2 3 1	<u>591</u>	
Operator AMAX Fxnlo	ration. Inc.	Pri	vate (1124-30	)0.1.)	//124-1	
Unit Letter Section	on Township	16S	≥Cółu 7₩	SANTA Sierra	<del>ny divis.</del> FE	
Actual Footage Location of	f Well:	100	,		·········	
	et from the North	line and	65 feet f	rom the East	line	
Ground Level Elev.	Producing Formation	Pool			Dedicated Acreage:	
5,560'	N/A		N/A			cres
1. Outline the ac	reage dedicated to the s	ubject well by colored	pencil or hachure	marks on the plat	below. N/A	
2. If more than and royalty).	one lease is dedicated t N/A	to the well, outline eac	ch and identify th	e ownership there	of (both as to working i	interest
3. If more than communitizati	one lease of different of on, unitization, force-po	ownersip is dedicated to boling, etc? N/A	to the well, have t	the interests of al	l owners been consolida	ited by
🗆 Yes 🗖	No If answer is "ve	es," type of consolidati	on			
If answer is "no,"	" list the owners and th	ract descriptions which	have actually bee	en consolidated. (	Use reverse side of this	form if
No allowable w forced-pooling, or	ill be assigned to the otherwise) or until a new	e well until all inter on-standard unit, elimir	rests have been on the been of	consolidated (by ts, has been appro	communitization, unit. ved by the Commission.	ization,
	]		ł .		CERTIFICATION	
D	C	B		I herel contain the best	by certify that the inforn ed herein is true and comp t of my knowledge and belie	mation lete to ef.
				Name Ca Card Position A Pe	rolyn J. Holtgrew Lyn J. Holtgrew ttorney-in-fact rmit Assistant	ie nure
		G		Company AMAX Date Nover	Exploration, Inc mber 19, 1981	
	K	J		I hereb shown o notes a under r is true knowled	y certify that the well lo on this plat was plotted from f actual surveys made by ny supervision, and that the and correct to the best dge and belief.	ocation m field me or e same of my
M			P	Date Surve Registered and/or Lar	yed Professional Engineer d Surveyor	
0 330 660 30	J J J J J J J J J J J J J J J J J J J	40 2000 1509	1	Certificate	No.	

## PROJECT DESCRIPTION

AMAX Exploration, Inc. will take necessary measures to protect all aspects of the environment. AMAX Exploration, Inc. also agrees that the proposed drilling program will be conducted in accordance with terms and conditions included within the approved permit.

AMAX Exploration, Inc. is currently permitting four (4) drill site locations for the Hillsboro Project in Sierra County, New Mexico. All of these holes are located on privately held land to which the owner has 100% surface and minerals rights. AMAX Exploration, Inc. will notify the New Mexico Oil Conservation Commission prior to commencing operations.

Exhibit A - Hillsboro Project Information indicates:

- (1) Hole numbers
- (2) Location
- (3) Section
- (4) Township
- (5) Range
- (6) Elevation
- (7) AMAX lease number
- (8) Land status

Shallow exploratory thermal gradient drill holes are usually drilled to depths of 30 to 500 feet. The holes which AMAX Exploration, Inc. proposes to drill will have a maximum depth of 500 feet.

Thermal gradient holes generally are drilled with bits 4-3/4" to 6-3/4" 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 of comparable depth.

The equipment used to drill shallow thermal gradient drill holes consist 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 holes when drilling above the water table. Water mixed with drilling mud and circulated through a portable mud tank accomplishes the same in drilling below the water table or in areas where the water table is relatively shallow. Foam will be used when necessary and contained within mud tanks or mud sumps. Defoamer will be used only when necessary and also will be contained within mud tanks or mud sumps. No toxic substances will be used at any time. Drill cuttings from the holes are used to back-fill the drill holes.

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A 300 foot hole generally requires approximately 5 to 20 hours to drill depending upon rock hardness and other drilling conditions. Under normal conditions, a 500 foot hole requires between 10 and 40 hours to drill. Therefore, depending upon shift length, a 500 foot well can usually be completed in a maximum of five days.

After the drill hole is completed and the drill rods removed from the hole, a PVC or iron 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 near thermal equilibrium with the surrounding rocks, a thermister probe is lowered into the hole and temperature measurements are made at intervals down the hole. A second and final temperature survey is made about a month after completion of the well.

Drilling operations are planned to take approximately 30 days. Temperature observation measurements will require an additional 60 days. Thus, the total project operations will require approximately 90 days. Each hole will be used for temperature observation purposes for approximately 8 weeks. Upon completion of operations, the pipe will be cut off at ground level and the top 10' filled with cement.

Mr. Dean Pilkington, Chief Geologist, Geothermal Branch, AMAX Exploration, Inc. will be in charge of the overall operation. Ms. Carolyn J. Holtgrewe, Permit Assistant, AMAX Exploration, Inc. will be responsible for regulatory and environmental matters. All personnel can be contacted at the letterhead address.

Prior to commencement of drilling operations, AMAX Exploration, Inc. will notify the Oil Conservation Commission concerning:

- (1) Actual rig size and capacity
- (2) Name of drilling contractor
- (3) Name of responsible on-site field geologist
- (4) Spud-in date

EXHIBIT A Hillsboro Project (1124) Sierra County, New Mexico NMPM

. . . .

		Location	-			AMAX	
Hole Number	Description	Section	Township	Range	Elevation	Lease No.	Land Status
1124-1	NE/4NE/4	5	165	ΜĹ	5,560'	1124-3001	V.H. Cunningham
1124-2	SE/4NE/4	2	16S	ΜĹ	5,480'	1124-3001	V.H. Cunningham
1124-3	SE/4NE/4	5	16S	ΜĹ	5,480'	1124-3001	V.H. Cunningham
1124-4	SW/4SW/4	4	16S	ΜĹ	5,385'	1124-3001	V.H. Cunningham

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A SUBSIDIARY OF AMAX INC.

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

LAND DEPARTMENT

June 14, 1983

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

> Re: AMAX Exploration, Inc.'s Hillsboro Project (1124), Sierra County, New Mexico

Dear Mr. Ulvog:

On November 19, 1981, AMAX filed four permits (Form No. G-101) "Application for Permit to Drill, Deepen or Plug Back Geothermal Resources Well" for wells No. 1124-1, 1124-2, 1124-3 and 1124-4 which were approved by your office on November 24, 1981.

Enclosed please find two reports (Form No. G-103) "Sundry Notices and Reports on Geothermal Resources Wells" for wells No. 1124-1 and 1124-4 which were drilled on January 5, 1982 and properly abandoned on May 24, 1983. Wells No. 1124-2 and 1124-3 were not drilled.

Hopefully the information on the enclosed report is sufficient, however, please feel free to contact me if I can be of further assistance regarding this matter.

Very truly yours,

AMAX EXPLORATION, INC.

Duite Clement

Anita Clement Land Secretary

/ac enclosures

NO. OF COPIES RECE		NEW MEXICO OII P. O. Bo	- CONSERVATION COM x 2088, Santa Fe 87501	DIECIEN MISSON JUN 20		Form G-103 Adopted 10/1/74
File				LLS		
				_OIL CONSERVATIO	ON DIVISION	
N. M. B. M.		SUNDRY N	OTICES AND REPOR	TS SANTA	55 Indicate Type	of Lesse
0.5.6.5			ON		State	Fee X
Operator		GEOTHERM	AL RESOURCES WEI	LS ·	5 a State Lease No	
Land Office		· ·			N/A	
Do Not Use This Form For Permit –" (Form	for Proposals to G-101) for Such I	Drill or to Deepen or Plug Ba Proposals.)	ck to a Different Reservo	ir. Use "Application		
1. Type of well	Geothermal Produ	Icer - Temp. Observ	ation 🕰		7. Unit Agreement	t Name
	Low-Temp Therm	al L Injection/Disp	osal 🛄		N/A	Nama
2. Name of Operator		oration Ind			5. Faim of Lease	INAIIIC
	AMAX EXPI	Station, Inc.				
3. Address of Operato	" 1707 Cole	Boulevard, Golden	, CO 80401		9. well No. 1124-4	
4. Location of Well					10. Field and Pool	I, or Wildcat
Linit Letter N	1	40 Feet From The S	outh Line and	135 Foot From	Wildcat	
The West	Line, Section	4Township	16S Range 7	WNMPM.		
		5385' GR			Sierra	
16.	Check	Appropriate Box To Indi	cate Nature of Notice,	Report or Other Data	a	
N	OTICE OF INTE	NTION TO:		SUBSECHEN		
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OTHER						
17. Describe Proposed	or completed C	perations (Clearly state all p	ertinent details and give	pertinenet dates inclu	ding estimated date	of starting any

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

<u>Method of Completion</u>: Hole No. 1124-4 was drilled and completed on 1-7-82. Drill stem was removed from the hole, a 3/4" PVC pipe, which had been capped on the bottom, was inserted into the hole. The pipe was filled with water and capped. The area around the intruded pipe was then backfilled with drill cuttings within 10 feet of the surface and then a 10 foot cement plug was placed at the top of the hole. (Hole was drilled to 363')

Abandonment Procedure: The hole was abandoned on 5-24-83. The 3/4" PVC pipe was cut off below ground level. The upper 3m (10 feet) was filled with cement. Any remaining depression was filled with soil and raked to restore the site to its original appearance and contour. All drilling-related refuse was removed and disposed of properly. Site was restored in accordance with your abandonment procedure requirements.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.
SIGNED ang Mers TITLE MARCAN Gov / Returns DATE 6/15/83
P. S. John Gostoriet 21-23
APPROVED BY
CONDITIONS OF APPROVAL, ANY:

		/		a server a s Server a server a s	a A CAR		Form G-101
NO OF COPIES RECE			STENICO OIL CONSERV	ATION COMMISSION	20. 20. S.		
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N.M.B.M.	/			UIL OU	NOL LING STRADO	5. iIndicate T	Type of Lease
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b. Type of Well	Geothern	nal Producer 🔲	Terr	np Observation		N/ 8. Farm or Le	ease Name
	Low-Tem	ip Thermal	Injec	tion/Disposal		N/	'A
2. Name of Operator AMAX E	<u>xplorat</u>	ion, Inc.				9. Well No. 112	24-4
3. Address of Operator 1707 C	nle Bou	levard: Golden,	<u>Colorado 8040</u> !	1		10. Field and Wild	Pool, or Wildcat
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Land Office	ON I LOG BACK-GEO	THENMAL RESOUR		LL	Ν	/A
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b Tune of Well Geothermal Pr	oducer	Temp Observation	n XX	-	N Form on I	/A
Low-Temp Th	ermal	Injection/Disposal			N	/A
2. Name of Operator AMAX Exploration,	Inc.				9. well No.	24-4
3. Address of Operator <u>1707 Cole Bouleva</u>	rd; Golden, Colorado	80401			10. Field and Wil	d Pool, or Wildcat
4. Location of Well UNIT LETTER	Mlocated40f	EET FROM THE SO	outh	LINE		
AND 135 FEET FROM THE W	est line of sec. 4 twp	2. 16S RGE.	7W		12. County	
					Sierra	
		19. Proposed Dept 500'	th 1	9A. Formatio Tertiary	seds	20. Rotary or C.T. Rotary
21. Elevations (Show whether DF, RT, e	etc.) 21A. Kind & Status Plug. P	Bond 21B. Drilling Cont	ractor	ανυ-ι-c	22. Appro:	x. Date Work will start
<u>5,385' GR</u> Well	Low Temperature Well PROPOSED CASH	or Geothermal	<u>at tn</u> Obser GRAM	<u>is time</u> vation We	ell Bond	mber 1981
SIZE OF HOLE SIZE	OF CASING WEIGHT PER I	FOOT SETTING DE	EPTH	SACKS OF	CEMENT	EST. TOP
4-3/4" - 6-3/4"	N/A N/A	<u> </u>		N	Ϋ́Α	N/A
(1) Dr (2) Ru (3) Ce (4) Fi	OI Vill hole 4-3/4" - 6-3 In 3/4" PVC or 3/4" ir Ment top 10' of annul Il pipe with water	IL CONSERVATIO WITHIN 24 HOUI 9/4" to TD on pipe to TD us around pipe	n coi Rs of	MMISSION BEGINNI	I TO BE NG OPEI	NOTIFIED RATIONS
(5) Me (6) In	asure temperature of stall cement plug ins	hole ide the PVC or	iron	pipe		,
At abandon	ment, top of pipe and t one foot below orig	cement plug - ginal ground le	inside vel,	e and out and surfa	side of ace to b	pipe - to be restored.
be at icus			APF P	ROVAL VA ERMIT EX UNLESS DI	LID FOR _ IRES 2- RILLING U	<u>40</u> DAYS 22-82- NDERWAY
N ABOVE SPACE DESCRIBE PROPOSE cone. Give blowout preventer program, if a	D PROGRAM: If proposal is to de any.	eepen or plug back, give o	lata on p	resent produc	ive zone and	proposed new productive
hereby certify that the information above Carolyn J. Holtgrew	e is true and complete to the best e, Attorney-in-fact	of my knowledge and bel	ief.		Nous	mbon 10 1091
(This space for State II	ritle P		·	Da		<u>1901</u>
(This space for state Us	sen sen	IOR PETROLEUM GEOL	naist			24/91
CONDITIONS OF APPROVAL, IF ANY:				D/	ATE	-1/ -1

Operation       An distance must be non-three score barrenses of the Section FUGUE 1019 FLAT.         Operation       Inc.         Operation       Inc.         Operation       Inc.         Determine       Township         And distance must be room three score barrenses of the Section 1000 FLAT.       Intel 400         Operation       Township         Add       Township	`+	CENTUERMAL DEC	NEW MEXICO OIL CONSE P. O. BOX 2088 SA	RVATION COMMISSION			Form G-102 Adopted 10/1/74
Ownerse     Interview     Interview     Interview       MMAK     Explored from the solution of the subject well by colored pendic of hadrure marks on the plat before.     Starry Ft       M     16S     7W     Starry Ft       Actual Roccyc tocrition of Well:     the solution of Well:     Dedicated Acreage       Good test Elver, Including Procession     Product Valle     Dedicated Acreage       5.355; GR     N/A     N/A     M/A       1. Outline the acreage dedicated to the subject well by colored pendic of hadrure marks on the plat beform. N/A     N/A       2. If more than one loase is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).     N/A       3. If more than one loase of different ownerspi is dedicated to the well, base the interests of all owners been consolidated by communitization, minization, force-pooling, etc?     N/A       If answer is "no," into 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. (Use reverse side of this form if necessary) or otherwise or until a non-standard unit, eliminating such interests, has been approved by the Commission.       D     C     B       M     J     Carpoing on the data we be directed for the well well bears of any knowing and bell directed for the well well bears of any knowing and bell directed for the well bears of any knowing and bell directed for the well bears of any knowi			istances must be from the out	ION AND ACREAGED	on $NOV 2.9.10$		
MMX Exploration, Inc.     Private (11/24/3401/3), and the second se	Operator		Lease	6-5-5		Well No.	
Unit letter       Skitta for the source of the second	AMAX Exp	loration, Inc.		Private (11244:30	01)5		<del>1</del>
Artual Rootage Location of Well:       But and 135       Test from the South in the source of	Unit Letter S	Section Townsh	16S Rang	7W	SANTA FE Sierra		
How for from the 30000       Just and 133       Feel from the 70% to 10%         5,385' GR       N/A       N/A       N/A         1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. N/A       N/A       Acres         2. If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A       If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A         3. If more than one lesse is dedicated to the well, pave the interests of all owners been consolidated by communitization, force-pooling, etc?       N/A         If were this more inset of different ownership is dedicated to the well, have the interests of all owners been consolidated. (Use reverse side of this form if necessary:) more than one lesse of different owners made that descriptions which have actually been consolidated. (Use reverse side of this form if necessary:) more than one lesses or until a nonstandard unit, eliminating such interests, has been approved by the Commission.         Image: Description of the well, outline and the description of the ownership and belint.       No allowable will be assigned to the well until all interests have been consolidated (by communitization, forced-pooling, or otherwise) or until a nonstandard unit, eliminating such interests, has been approved by the Commission.         Image: Description of the owner owner owner ownership and belint.       No allowable will be assigned to the well to and the owner owner ownership and belint.         Image: Description ownere owne	Actual Footage Locati	on of Well:	h	125	West		
5,385' GR       N/A       N/A       N/A       Acres         1. Outline the acreage dedicated to the subject well by colored pencil or hachare marks on the plat below. N/A       1.       I' more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A         3. If more than one lease of different ownersp is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?       N/A	Ground Level Flev	feet from the SOUL Producing Formation	I line and Pool	135 feet from th	Ded	icated Acreage:	
<ul> <li>Outline the acreage dedicated to the subject well by colored pencil or bachure marks on the plat below. N/A</li> <li>If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A</li> <li>If more than one lease of different ownersp is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? N/A</li> <li>Yes No If answer is "yes," type of consolidation</li></ul>	5,385' GR	N/A		N/A		N/A	Acres
<ul> <li>If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). N/A</li> <li>If more than one lesse of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, norce-pooling, etc? N/A</li> <li>Yes No If answer is "yes," type of consolidation</li></ul>	1. Outline th	ne acreage dedicated to th	e subject well by colored	pencil or hachure mark	s on the plat belo	w. N/A	
<ul> <li>If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, force-pooling, etc? N/A</li> <li>Yes No If answer is "yes," type of consolidation</li></ul>	2. If more the and royal	han one lease is dedicate ty). N/A	d to the well, outline ea	ich and identify the ow	nership thereof (b	oth as to work	cing interest
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.         Image: Cappolyn, J. of 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.         Image: Cappolyn, J. of the well until all interests for the best of my knowledge and boilet.         Image: Cappolyn, J., bollarcewe	3. If more t communit	han one lease of differer	nt ownersip is dedicated pooling, etc?	to the well, have the ir	terests of all own	ners been cons	solidated by
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No allowable will be assigned to the well until all interests have been consolidated (by communitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.          Image: Description of the well optimized provided provid	If answer is ' necessary.)	"no," list the owners and	l tract descriptions which	h have actually been co	nsolidated. (Use r	everse side of	this form if
DCBA BA CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Capolyn, J. Holtgraewe Position Attochney-in-fact Permit Assistant Company MMAX Exploration, Inc. Date November 19, 1981 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor	No allowable forced-pooling	e will be assigned to g, or otherwise) or until a	the well until all inte non-standard unit, elimi	rests have been conso nating such interests, ha	lidated (by com s been approved b	munitization, by the Commis	unitization, sion.
DCBA I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name Capolyn J. Holtgrewe Manual Joil Greace Position AttorNey-In-CACt Permit Assistant Company MAX Exploration, Inc. Date November 19, 1981 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor		1		1	C		
DCBA Name Carolyn J. Holparewe (Anolyn J.				1			:
D       C       B       A       the best of my knowledge and belief.         E       F       G       H       Name Capolyn J. Holtarewe Carding A Holtarewe Carding A Holtarewe Carding A Holtarewe Carding A Holtarewe Company         E       F       G       H       Permit Assistant Company         AMAX Exploration, Inc.       Date       November 19, 1981         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.         M       O       P         Max       Date Surveyed         Registered Professional Engineer and/or Land Surveyor	T		D D	i <b>λ</b> .	contained her	rtity that the rein is true and	complete to
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EFGHH Mare Carolyn J. Holtgrewe Carolyn A Holgrewe Position Attorney-in-fact <u>Permit Assistant</u> Company <u>AMAX Exploration, Inc.</u> Date November 19, 1981 / hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor							
E       F       G       H       Position       Attorney-in-fact         Permit Assistant       Company       AMAX Exploration, Inc.       Date         Date       MMAX Exploration, Inc.       Date         November 19, 1981       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.         M       O       P         Registered Professional Engineer and/or Land Surveyor       Certificate No.		1		1	No. Comple		
EFGH Attorney-in-fact Permit Assistant Company AMAX Exploration, Inc. Date November 19, 1981 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No.				-	a form	S Holte	(rewe
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E       F       G       H       Company         Date       November 19, 1981         I       Interpretation 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.         M       M       O       P         Registered Professional Engineer and/or Land Surveyor       Certificate No.					Permit	<u>t Assistan</u>	<u>t</u>
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Image: Second	1				shown on this	s plat was plotte	d from field
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## PROJECT DESCRIPTION

AMAX Exploration, Inc. will take necessary measures to protect all aspects of the environment. AMAX Exploration, Inc. also agrees that the proposed drilling program will be conducted in accordance with terms and conditions included within the approved permit.

AMAX Exploration, Inc. is currently permitting four (4) drill site locations for the Hillsboro Project in Sierra County, New Mexico. All of these holes are located on privately held land to which the owner has 100% surface and minerals rights. AMAX Exploration, Inc. will notify the New Mexico Oil Conservation Commission prior to commencing operations.

Exhibit A - Hillsboro Project Information indicates:

- Hole numbers (1)
- (2)Location
- (3) Section
- (4) Township
- (5) Range
- (6)
- Elevation
- AMAX lease number (7)
- (8) Land status

Shallow exploratory thermal gradient drill holes are usually drilled to depths of 30 to 500 feet. The holes which AMAX Exploration, Inc. proposes to drill will have a maximum depth of 500 feet.

Thermal gradient holes generally are drilled with bits 4-3/4" to 6-3/4" 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 of comparable depth.

The equipment used to drill shallow thermal gradient drill holes consist 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 holes when drilling above the water table. Water mixed with drilling mud and circulated through a portable mud tank accomplishes the same in drilling below the water table or in areas where the water table is relatively shallow. Foam will be used when necessary and contained within mud tanks or mud sumps. Defoamer will be used only when necessary and also will be contained within mud tanks or mud sumps. No toxic substances will be used at any time. Drill cuttings from the holes are used to back-fill the drill holes.

A 300 foot hole generally requires approximately 5 to 20 hours to drill depending upon rock hardness and other drilling conditions. Under normal conditions, a 500 foot hole requires between 10 and 40 hours to drill. Therefore, depending upon shift length, a 500 foot well can usually be completed in a maximum of five days.

After the drill hole is completed and the drill rods removed from the hole, a PVC or iron 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 near thermal equilibrium with the surrounding rocks, a thermister probe is lowered into the hole and temperature measurements are made at intervals down the hole. A second and final temperature survey is made about a month after completion of the well.

Drilling operations are planned to take approximately 30 days. Temperature observation measurements will require an additional 60 days. Thus, the total project operations will require approximately 90 days. Each hole will be used for temperature observation purposes for approximately 8 weeks. Upon completion of operations, the pipe will be cut off at ground level and the top 10' filled with cement.

Mr. Dean Pilkington, Chief Geologist, Geothermal Branch, AMAX Exploration, Inc. will be in charge of the overall operation. Ms. Carolyn J. Holtgrewe, Permit Assistant, AMAX Exploration, Inc. will be responsible for regulatory and environmental matters. All personnel can be contacted at the letterhead address.

Prior to commencement of drilling operations, AMAX Exploration, Inc. will notify the Oil Conservation Commission concerning:

- (1) Actual rig size and capacity
- (2) Name of drilling contractor
- (3) Name of responsible on-site field geologist
- (4) Spud-in date

EXHIBIT A Hillsboro Project (1124) Sierra County, New Mexico NMPM

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	Land Status	V.H. Cunningham	V.H. Cunningham	V.H. Cunningham	V.H. Cunningham	
AMAX	Lease No.	1124-3001	1124-3001	1124-3001	1124-3001	
	Elevation	5,560'	5,480'	5,480'	5,385'	
Location Decemination Social Township Dance	Range	ML	MZ	ML	ΜĹ	
	Township	16S	165	165	165	
	Section	5	5	5	4	
	Description	NE/4NE/4	SE/4NE/4	SE/4NE/4	SW/4SW/4	
	Hole Number	1124-1	1124-2	1124-3	1124-4	

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