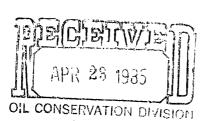
### GTLT - \_\_\_\_13\_\_\_\_

## Steam Reserve Corporation (6&8)-16S-7W Sierra County

# Well No. 7 & 9

STEAM RESERVE CORPORATION STEAM RESERVE CORPORATION STEAM RESERVE CORPORATION STEAM RESERVE CORPORATION STEAM



April 19. 1985

CORPORATION

Roy E. Johnson State of New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, New Mexico 87501

> Re: Sundry Notices and Reports on Geothermal Resource Exploration Operations in Sierra County, New Mexico for Steam Reserve Corporation's Hillsboro Project No. 1124

Dear Mr. Johnson:

Enclosed are three Geothermal Sundry Notices for holes Nos. 1124-6, 1124-7, and 1124-9, drilled at Steam Reserve Corporation's Hillsboro Project in Sierra County, New Mexico. The holes were properly completed and abandoned in accordance with the rules and regulations of the State of New Mexico. Also enclosed are lithologic descriptions for the three holes.

Very truly yours,

Buita Clement

Anita Clement Permit Administrator

AC/m Enc.

5



#### Hillsboro 1124-7

Depth (ft)

#### Description

0 - 500' TD Santa Fe Group alluvium. Silt, sand, and gravel. Clasts are predominantly intrusive and extrusive fragments. Various felsic compositions predominant. Basalt fragments are present, but minor. Textural variations from predominantly sand to predominantly gravel. Intervals at 30 to 90 feet and 470 to 500 feet are mostly sand-size material. Gravel predominates in all other samples.

> Intact gravel clasts exhibiting weathered surfaces are mostly angular to subangular. Minor content of well-rounded gravel. Depositional environment is interpreted as alluvial fan, but may also contain thin fluvial-channel deposits.

> Very-fine-grained metallic mineralization, probably pyrite, is present in many samples, but appears to be associated exclusively with basalt fragments. This mineralization is interpreted to have occurred within the basalt formation and not within the Santa Fe Group alluvium.

> Samples from this hole are similar to hole 1124-9, but exhibit a greater heterogeneity of clast lithology.

Form G-	103
Adopted	10/1/74

		· · ·		Auopteu 10/1//4
NO. OF COPIES RECEIVED		NEW MEXICO OIL	CONSERVATION COMMISSION	
DISTRIBUTION		Р. О. Во»	x 2088, Santa Fe 87501	
File				
N. M. B. M.		SUNDRY NO	OTICES AND REPORTS	
U. S. G. S			ON	5. Indicate Type of Lease
Operator		GEOTHERM	AL RESOURCES WELLS	State Fee X
Land Office				5.a State Lease No. N/A
Do Not Use This Form for P For Permit –" (Form G-101			ck to a Different Reservoir. Use "Application	
1. Type of well Geoth	ermal Pro	oducer Temp. Observa	ation 🗶	7. Unit Agreement Name
Low-T	emp The	rmal 🗌 Injection/Disp	osal	N/A
2. Name of Operator				8. Farm or Lease Name
STI	EAM RE	SERVE CORPORATION		V. H. Cunningham
3. Address of Operator				9. Well No.
170	)7 Col	e Blvd., Golden, Col	lorado 80401-3293	7
4. Location of Well				10. Field and Pool, or Wildcat
Unit LetterK		2200 Feet From The W	Vest Line and 2300 Feet From	Wildcat
The South Li	ne, Sectio	on <u>6</u> Township _	16S Range 7 West NMPM.	
		<u>.</u>		
ALLINNNNNNN	11111	15. Elevation (Show	w whether DF, RT, GR, etc.)	12. County
	.////		5520'	Sierra
16.	Ch	eck Appropriate Box To India	cate Nature of Notice, Report or Other Da	ta
NOTIC	E OF IN	TENTION TO:	SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WO	RK	PLUG AND ABANDON	X REMEDIAL WORK	
TEMPORARILY ABANDON	r —		COMMENCE DRILLING OPNS.	
PULL OR ALTER CASING		CHANGE PLANS	CASING TEST AND CEMENT JOB	
			OTHER	
OTHER				

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>Completion</u> - After hole No. 1124-7 was completed on 1-25-85 and the drill stem removed from the holes, a 3/4" PVC pipe, which had been capped on the bottom, was inserted into the holes. The pipe was filled with water and capped. The area around the intruded pipe was then backfilled with drill cuttings to 10 feet below surface, the upper 10 feet of annulus was filled with cement.

Abandonment - Hole No. 1124-7 was properly abandoned on 3-14-85. The 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.

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

SIGNED Acuita Clement	TITLE	Attorney-in-Fact DATE	4-18-85
APPROVED BY Koy Elonas	TITLE	DISTRICT SUPERVISOR	11/1/85/
CONDITIONS OF APPROVAL, IF ANY:		· · ·	•

		•				Form G-101 Adopted 10/1/
NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSER	VATION COMMISSION	·		
		P. O. Box 2088, Sa				
DISTRIBUTION						
N.M.B.M.					5. Indicate	Type of Lease
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Operator	N		MAL RESOURCES WE	•	5.a State Le	
Land Office			MAL NESOUNCES WE		N/A	
			x			
			X			
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	**'		-		N/	Ά
b. Type of Well Geother	mal Producer 🔲		mp Observation 🛛 🕅	ĺ	8. Farm or 1	ease Name
Low-Te	mp Thermal 🛛 🗖	. Inje	ection/Disposal		V. H.	Cunningham
2. Name of Operator					9. Well No.	
-	Reserve Corporat	tion				7
3. Address of Operator		·····			10. Field and	f Pool, or Wildcat
•	ole Boulevard, (	Golden, CO 8040	1		Wil	ldcat
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++++++++++++++++++++++++++++++++++++++	***********	<i>{{///////////////////////////////////</i>	9. Proposed Depth 1	9A. Formatio	n	20. Rotary or C.T.
			500'	Tertiary & volca	y seds	Rotary
21. Elevations (Show whether Di	F. RT. etc. = 21A. Kind	& Status Plug. Bond 2	1B. Drilling Contractor	<u> voic</u>		x. Date Work will start
5520'		) Multiple	To be determi	ned	June	$\geq 1, 1984$
	Well Low Temp.	Well or Geothe ROPOSED CASING AND	rmal Observation	Well Bo	ond	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
4-3/4" - 6-3/4"	N/A	N/A	N/A	N/A	CEMENT	N/A
4-3/4 - 0-3/4						
		<u> </u>		ADDa.		·
			·	APPROVAL	L VALID FO	DR 96 DAYS
(1)	Drill hole 4-3,	/4" - 6 - 3/4" + 0	TT	PERMIT	L VALID FO EXPIRES DRILLING	IR 96 DAVE
(2)	Run $3/4"$ PVC of		e to TD	UNLESS	DRILING	- 2-20-8K
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	Fill pipe with		and pipe			
	Measure tempera					
(6)			e PVC or iron pi	pe _		
(8)		pray morae an	e i ve or mon pr		HEL PUTE	All and the second s
				E.P.		<u>111712</u>
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	WITHIN 24 HOUF	S OF BEGINNIN	IG OPERATIONS		SUN	INF2
						- e uny ,
IN ABOVE SPACE DESCRIBE PF zone. Give blowout preventer prog	ROPOSED PROGRAM: If	proposal is to deepen of	r plug back, give data on p	resent produc	ctive zone and	I proposed new productive
I hereby certify that the informati	on above is true and com	plete to the best of my k	mowledge and belief.			/ /
Boyce Emerson		7.1.1.2	in Deel		5%	1/94
Signed Alle M	len	TitleAttorney	in-Fact	D	oa te	107
(This space for						
/ C.m.	R Woog	DISTRI	CT SUPERVISO	)R	•	5/22/84
APPROVED BY		TITLE				)/22/84

CONDITIONS OF APPROVAL, IF ANY:

54 ISSN 1

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			SANTA FE 87501		Adopted 10
	GEOTHERMAL RESO			1	PLAT
operator		ances must be from the Lease			Well No.
Steam Reserve (			V. H. Cunn		7
nit Letter K Sect	on 6 Township	16 South	<sup>nge</sup> 7 West	County Sierra	
tual Footage Location of 2200	T.T I		2300 fe	South	
round Level Elev.	Producing Formation	line and 4 Pool	2300 te	et from the South	line Dedicated Acreage
5520'	N/A		N/A		N/A Acres
1. Outline the a	creage dedicated to the	subject well by color	ed pencil or hachu	are marks on the plat	below.
and royalty). 3. If more than communitizat Yes If answer is "no necessary.) No allowable w	N/A one lease of different ion, unitization, force-p No If answer is "y " list the owners and t /ill be assigned to th	ownersip is dedicated ooling, etc? N/2 res," type of consolid tract descriptions whith the well until all in	d to the well, have A ation ich have actually terests have bee:	ve the interests of all MAN 5.2 been consolidated 7(1 SANTA n consolidated (by	Use reverse (side of this form FZ communitization, unitizatio
					CERTIFICATION
Ŋ	C	B	A	containe	y certify that the information d herein is true and complete to of my knowledge and belief.
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D E L	F K	B G J	A H I	containe the best Name Position Atto Company Steau Date I hereby shown o notes of under m is true	d herein is true and complete to of my knowledge and belief. Oyce Emerson Memory rney-in-Fact
D E L M	F K	B G J O	A H I P	containe the best J Name Position Atto Company Stear Date J I hereby shown o notes of under m is true knowled	d herein is true and complete to of my knowledge and belief. OYCE Emerson mey-in-Fact m Reserve Corporation y certify that the well location of this plat was plotted from field f actual surveys made by me or by supervision, and that the same and correct to the best of my ge and belief.

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#### Hillsboro 1124-9

Depth (ft)

#### Description

0 - 500' TD Santa Fe Group alluvium. Silt, sand, and gravel. Gravel-size material comprises approximately 75 percent of samples above 370 feet. Below 370 feet, samples are approximately half sand-size material and half gravel-size material. Sand fraction is composed of lithic fragments, feldspar grains, and quartz grains. Gravel fraction appears to be derived from one igneous source rock.

> Lithic fragments are moderate-reddish-brown to dark-reddish-brown, pale-red-purple, and medium gray. Fragments exhibit moderate weathering but preserve some textural features. Most fragments are porphyritic, but a few are aphanitic. Altered feldspars are the most common phenocryst.

> These sediments were probably derived from the Pollack Quartz Latite of Jicha (1954) and Hedlund (1977). Samples from this hole are similar to those from hole 1124-7, but exhibit less heterogeneity of lithology.

Depositional environment is interpreted to be alluvial fan.

Form G-3	103
Adopted	10/1/74

			. Adopted 10/1/74
NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSE	ERVATION COMMISSION	
DISTRIBUTION	P. O. Box 2088,	Santa Fe 87501	
File			
N. M. B. M.	SUNDRY NOTICES	S AND REPORTS	-
U. S. G. S	ON		5. Indicate Type of Lease
Operator	GEOTHERMAL RE	SOURCES WELLS	State 🗌 Fee 🗴
Land Office		· · · · · · · · · · · · · · · · · · ·	5.a State Lease No.
	L		N/A
Do Not Use This Form for Proposals For Permit –" (Form G-101) for Suc	to Drill or to Deepen or Plug Back to a l h Proposals.)	Different Reservoir. Use "Application	
1. Type of well Geothermal Pro	oducer Temp. Observation	X	7. Unit Agreement Name
Low-Temp The	rmal 🔲 Injection/Disposal		N/A
2. Name of Operator		· · · · · · · · · · · · · · · · · · ·	8. Farm or Lease Name
STEAM RE	SERVE CORPORATION		V. H. Cunningham
3. Address of Operator 1707 COL	e Blvd., Golden, CO 8040	)1-3293	9. Well No. 9
4. Location of Well Unit Letter L 900	Feet From The West	Line andFeet From	10. Field and Pool, or Wildcat Wildcat
TheLine, Section	on816S		
	15. Elevation (Show whether GR-5360'	er DF, RT, GR, etc.)	12. County Sierra
16. Che	eck Appropriate Box To Indicate Na	ature of Notice, Report or Other Da	ta
NOTICE OF IN	FENTION TO:	SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	L
			_
		OTHER	
OTHER			

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>Completion</u> - After hole No. 1124-9 was completed on 1-31-85 and the drill stem removed from the holes, a 3/4" PVC pipe, which had been capped on the bottom, was inserted into the holes. The pipe was filled with water and capped. The area around the intruded pipe was then back-filled with drill cuttings to 10 feet below surface, the upper 10 feet of annulus was filled with cement.

Abandonment - Hole No. 1124-9 was properly abandoned on 3-14-85. The 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.

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

signed duita Clement	_ TITLE _	Attorney-in-Fact	DATE	4-18-85
APPROVED BY Releficion	TITLE	DISTRICT SUPERVISOR	DATE	11/1/85
CONDITIONS OF APPROVAL, IF ANY:		·		

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						.Form G-101
						Adopted 10/1/74
NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSER	VATION COMMISS	ION		
DISTRIBUTION		P. O. Box 2088, Sa	nta Fe 87501			
File	V					
N.M.B.M.						Type of Lease
U.S.G.S.	APPLI	CATION FOR PERMI	T TO DRILL, DE	EPEN,	STATE	
Operator	OR PLU	G BACKGEOTHER	MAL RESOURCE	SWELL	5.a State Le	
Land Office					N/Z	
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1a. Type of Work Drill		eepen 🗋 🗖	Plug Back		7. Unit Agre N/A	ement Name
b. Type of Well Geother	mal Producer 🔲	Te	mp Observation	$\mathbf{x}$	8. Farm or I	Lease Name
	mp Thermal 🛛	Inj	ection/Disposal	Ċ,		· {
2. Name of Operator	· · · · · · · · · · · · · · · · · · ·				<u> </u>	Lunningham
	Reserve Corpora	ation				. <b>o</b> ,
3. Address of Operator					10. Field and	d Pool, or Wildcat
1707 (	Cole Boulevard,	Golden, Colora	do 80401		Wildo	
4. Location of Well UNIT LET	TERLOCAT	ED 900 FEET F	ROM THE West			UTITITITI (IIII)
AND 1800 FEET FROM	THE SOUTHLINE OF S	<u>бес. 8 тwp. 165</u>	<sub>RGE.</sub> 7W			
					12. County	
				///////	Sierra	
<i><u> </u></i>				THHH	///////////////////////////////////////	
			9. Proposed Depth 500'	19A. For	nation ry seds	20. Rotary or C.T.
<u> </u>		<u>illillillilli</u>			anics —	Rotary
21. Elevations <i>(Show whether DF</i> 5360'			21B. Drilling Contrac To <u>be determ</u>		22. Appro	x. Date Work will start 1, 1984
	Well, Low Tem	o. Well or Geot	hermal Obser	vation We		1/ 1/01
	· Pī	ROPOSED CASING ANI	D CEMENT PROGRA	AM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	TH SACK	S OF CEMENT	EST. TOP
4-3/4" - 6-3/4"	N/A	N/A	N/A		N/A	N/A
(1)	Drill hole 4-3	/4" - 6-3/4" to	TD	APPROVA	VALD FOD	90 DAYS
(2)	Run 3/4" PVC of			PERMIT	EXPIRES	70 DAYS
(3)	Cement top 10'			UNLES	S DRILLING U	8-20.54
(4)	Fill pipe with	water		-	o onicenta u	INDERWAY
(5)	Measure tempera					
(6)	Install cement	plug inside th	e PVC or iron	n pipe		
						9 2 1964
					01 000355	WATION DIVISION
	OIL CONSER	RVATION COMMI	SSION TO BE	NOTIFIE		NTA FE
	WITHIN 24	4 HOURS OF BE	GINNING OPE	RATIONS		
IN ABOVE SPACE DESCRIPE PR zone. Give blowout prevenes prog	OPOSED PROGRAM: If	proposal is to deepen o	r plug back, give data	a on present pi	roductive zone and	d proposed new productive
I hereby certify that the information	on above is true and comp	plete to the best of my k	nowledge and belief			
Signed		Title Attorney-	in-Fact		5/	4/84
					Date	
(This space for S					/ /	
Part	Ulvoa.	TITLE DIGIRIC	T SUPERVI	SOR		5.22-84
APPROVED BY		TITLE VICTOR		-	DATE	), JC - OF

CONDITIONS OF APPROVAL, IF ANY:

Form G-102 Adopted 10/1/74

#### NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE 87501

### GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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	All d	stances must be from		of the Section		Well No.	
Operator Steam	Reserve Corporatio	n Leas		minghas	<del>م</del> ا	9	)
Unit Letter	Section Townshi		Range	County	,		
<i>L</i>	· · · · · · · · · · · · · · · · · · ·	South	7 West	Sie	rra		. <u> </u>
Actual Footage Locat 900	ion of Well: feet from the West	line and	1800	feet from the	South	line	
Ground Level Elev. 5360'	Producing Formation N/A	Pool				Dedicated Acreage: N/A	Acres
1. Outline t	ne acreage dedicated to the	e subject well by co		chure marks o	on the plat b		
2. If more and royal	han one lease is dedicated ty). N/A	to the well, outlin	ne each and ident	ify the owner	rship thereof	(both as to work	ing interest
	than one lease of differen tization, unitization, force				rests of all b		olidated by
🗆 Yes	□ No If answer is '	'yes," type of conso	olidation	(		ز منه المر	
If answer is necessary.) _	"no," list the owners and	tract descriptions	which have actual	GiL CO! ly been conso	NGERVATION blidgted - (Use	N DIVISION e reverse side of	this form if
	e will be assigned to g, or otherwise) or until a						
						CERTIFICATION	
		R			•	certify that the herein is true and o	
				-	the best of	' my knowledge and	l belief.
	 <del> </del>				Joy Name	e Emerson	· · · · · · · · · · · · · · · · · · ·
			! ! ,	,	Position Attori	ney-in-Fact	
E	¦ F	G		1	Company	serve Corpor	ation
			1		Date 5/4	184	
					L hereby	certify that the w	ell location
,			$\frac{1}{1}$	-	shown on t	this plat was plotted	f from field
	K		_	-	under my	ctual surveys made supervision, and th	at the same
			1		is true and knowledge	d correct to the and belief.	best of my
	· · +						
	Λ	$  \cap$	P		Date Surveyed	· · · · · · · · · · · · · · · · · · ·	
	; /V				Registered Pro and/or Land S	fessional Engineer urveyor	······
0 310 660	0 1320 1650 1980 2310	2640 2000	1500 1000	500 0	Certificate No.	•	

#### PROJECT DESCRIPTION

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

Steam Reserve Corporation is currently permitting three (3) drill site locations for the Hillsboro Project in Sierra County, New Mexico. Two of these holes are located on privately held land to which the owner has 100% surface and minerals rights and one of the holes will be located on New Mexico State Lease No. GTR-290. Steam Reserve Corporation 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 Steam Reserve Corporation 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 truckmounted 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, Steam Reserve Corporation will be in charge of the overall operation. Ms. Joyce Emerson, Manager of Government Relations Steam Reserve Corporation will be responsible for regulatory and environmental matters. All personnel can be contacted at the letterhead address.

1124-9	1124-7	1124-6	Hole Number
SE/4NW/4	SW/4NW/4	NW/4NE/4	Description
œ	6	32	Location Section
16S	16S	15S	Location Section Township Range
ZM	ZM	ZM	Range
5,360'	5,520'	' 086 <b>,</b> 5	Elevation
1124-3001	1124-3001	1124-2001	AMAX Lease No.
V.H. Cunningham	V.H. Cunningham	New Mex. GTR-290	Land Status

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

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Township 15 & 16 South, Range 7 West

