GTLT - ____13____

Steam Reserve Corporation 32-15S-7W Sierra County

GTR-290 Well No. 6

NO. OF COPIES RECEIVED DISTRIBUTION File N. M. B. M. U. S. G. S Operator Land Office 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 Low-Temp Thermal 2. Name of Operator STEAM RESERVE CORPORATION 3. Address of Operator 1707 Cole Blvd., Golden, Colorado 80401–3293	5. Indicate Type of Lease State \(\omega \) Fee \(\omega \) 5.a State Lease No. GTR - 290 7. Unit Agreement Name N/A
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3. Address of Operator 1707 Cole Blvd., Golden, Colorado 80401-3293	8. Farm or Lease Name
1707 Cole Blvd., Golden, Colorado 80401-3293	N.M. State
	9. Well No.
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16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Dat	3
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17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinenet dates, incluse proposed work) SEE RULE 203.	ding estimated date of starting any
proposed work, SEE ROLE 203.	
Completion - After hole No. 1124-6 was completed on 1-8-85 and the dr.	ill 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 arou	
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. 1124-6 was properly abandoned on 3-14-85. The	PVC pipe was cut
off below ground level. The upper 3m (10 feet) was filled with cemen	t. Any remaining
depression was filled with soil and raked to restore the site to its	original appearance
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DISTRICT SUPERVISOR

1/1/85

4-18-85



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION



1935 - 1985

1933 - 1903

POST OFFICE BOX 2088 STATE LAND OFFICE BLILDING SANTA FE, NEW MEXICO 87501

(505) 827-5800

January 15, 1986

Steam Reserve Corporation 1707 Cole Boulevard Golden, Colorado 08401

Re: \$10,000 Geothermal Well Bond

Steam Reserve Corporation, Principal; Fireman's Insurance Co. of Newark,

New Jersey, Surety Bond No. 220 76 78

Gentlemen:

The Oil Conservation Division hereby approves release of the above-referenced goethermal bond effective this date.

Sincerely,

R. L. STAMETS,

Director

dr/

cc: Oil Conservation Division

Santa Fe, New Mexico

Fireman's Insurance Co. of

Newark, New Jersey

80 Maiden Lane

New York, New York 10038



December 10, 1984

Mr. Roy Johnson District Supervisor State of New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, NM 87501



RE: Extensions for Wells Nos. 6, 7 and 9 at Steam Reserve Corporation's Hillsboro Project

Dear Mr. Johnson:

As we discussed on the phone today, SRC hereby requests an extension to the approved applications for Permits to Drill, Deepen, or Plug Back Geothermal Resources Wells Nos. 6, 7 and 9 at its Hillsboro project in Sierra County, New Mexico. The permits for the subject shallow holes were approved by your office in May and August of this year. Drilling operations are now scheduled to commence on or about December 17, 1984.

Please indicate at your earliest convenience approval of SRC's request for extension of the permits.

Very truly yours.

Seita Clement

Anita Clement

AC:br



July 31, 1984

AUG 6-1901

OIL CONSERVATION DIVISION

SANTA TE

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

> Re: Steam Reserve Corporation' Well No. 6 Hillsboro Project, New Mexico

Dear Mr. Johnson:

Pursuant to our phone conversation please find enclosed a new Application for Permit to Drill, Deepen, or Plug Back - Geothermal Resources Well (Form No. G-101) and Geothermal Resources Well Location and Acreage Dedication Plat (Form No. G-102) for the above-referenced well.

The original permit was approved by your office on May 22, 1984 but due to a change of location you requested we file a new application. We believe that all other necessary domuments and maps pertaining to this well are already on file in you office.

Very truly yours,

STEAM RESERVE CORPOATION

Reita Clement

Anita Clement

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U.S.G.S.	2	
Operator		
Land Office	1	

b. Type of Well

2. Name of Operator

3. Address of Operator

21. Elevations (Show w 5660'

4-3/4" - 6-3/4"

4. Location of Well

AND 5000

NEW MEXICO OIL CONSERVATION COMMISSION

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						12. County Sierra	
		17777		19. Proposed Depth	19A. Formation		20. Rotary or C.T.
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* ** **		Temp	Well or Geo. Roposed casing an	Observation We.	ll Bond		
SIZE OF HOLE	SIZE OF CA	SING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST, TOP

Drill hole 4-3/4" - 6-3/4" to TD

Run 3/4" PVC or 3/4" iron pipe to TD (2)

(3) Cement top 10' of annulus around pipe

(4) Fill pipe with water

(5) Measure temperature of hole

N/A

Install cement plug inside the PVC or iron pipe

OIL CONSCRINTION DIVISION

APPROVAL VALID FOR TIEFE & Y PERMIT EXPIRES UNDERWAY

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

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zone. Give blowout preventer program U-any			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.	/	/	

DISTRICT SUPERVISOR

8.6-84



June 29, 1984

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

Re: Steam Reserve Corporation's Well No. 6
Hillsboro Project, New Mexico

Dear Mr. Ulvog:

This is to advise you of a <u>location change of Well No. 6</u> located on New Mexico State Lease No. GTR-290 in Sierra County, New Mexico. The Application for Permit to Drill, Deepen, or Plug Back - Geothermal Resources Well was approved by you on May 22, 1984. The reason for the location change is that the road is impassable. Please see attached map for new location.

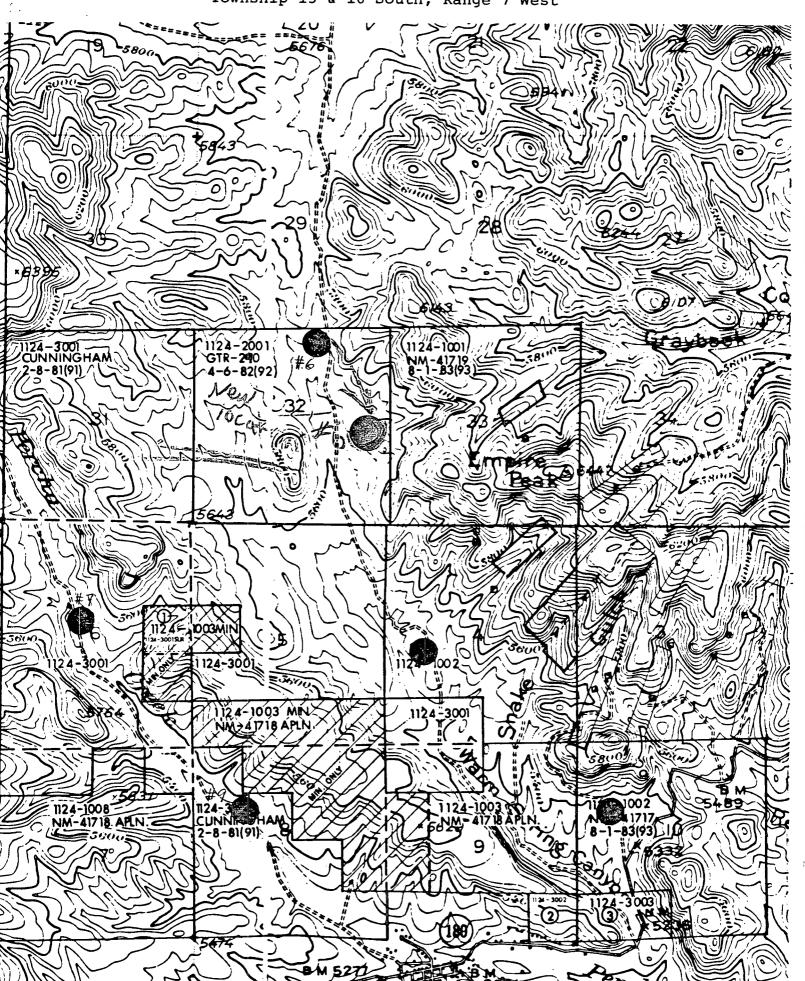
Very truly yours,

STEAM RESERVE CORPORATION

Quita Clement

Anita Clement

/ac attachment





STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

May 24, 1984

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Steam Reserve Corporation 1707 Cole Boulevard Golden, Colorado 80401

Re: \$10,000 Geothermal Well Bond Steam Reserve Corporation, Principal; Fireman's Insurance Co. of Newark, New Jersey, Surety Sec. 32, T-15-S, R-7-W; Sec. 6, T-16-S, R-7-W; Sec. 8, T-16-S, R-7-W, Bond No. 220 76 78

Gentlemen:

The Oil Conservation Division hereby approves the above-captioned Geothermal Bond effective this date.

Sincerely,

JOE D. RAMEY, Director

dr/

OCD - Santa Fe Office cc:

> Fireman's Insurance Co. of Newark, New Jersey 80 Maiden Lane New York, New York 10038

						Adopted	
NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSER	VATION COMMISSION				
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<u>4-3/4" - 6-3/4"</u>	N/A	N/A	N/A	N/A		N/A	
				<u> </u>			
		.=	<u> </u>				
	Drill hole 4-3/		TD				
	Run 3/4" PVC or		e to TD	APPROVA	r v.		
	Cement top 10'		und pipe	PERMIT	E VALID FO	R 90	
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IN ABOVE SPACE DESCRIBE PROZONE. Give blowout preventer progr	OPOSED PROGRAM: If am, if any.	proposal is to deepen or	plug back, give data on p	resent produ	ctive zone and	proposed new pro	ductive
I hereby certify that the information	n above is true and comp	olete to the best of my k	nowledge and belief.			/	
Joyce Emerson		73.1.1	i To 1		עאים	104	
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CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO GIL CONSERVATION COMMISSION

P. O. BOX 2088 SANTA FE 87501

Form G-102 Adopted 10/1/74

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	All dista	nces must be from	the outer boundaries	s of the Section	n.	
Steam Reser	ve Corporation	S	tate of New M	lexico		Well No. _ 6
Unit Letter C Section		15 South	Range 7 West	County	Sierra	
Actual Footage Location of	Well:					
	from the West roducing Formation	line and		feet from the	····	line edicated Acreage:
5680'	N/A		N/A			N/A Acres
1. Outline the acre	eage dedicated to the s	ubject well by co	olored pencil or ha	chure marks	on the plat be	low.
2. If more than o and royalty).	ne lease is dedicated t	o the well, outli	ine each and ident	tify the own	ership thereof	(both as to working interes
3. If more than o	,	ownersip is dedic	cated to the well,	have the inte	erests-of-all-ov	vners been consolidated b
	n, unitization, force-po				MAY 2.219	1113
☐ Yes ☐ 1	No If answer is "ye	es," type of cons	olidation	<u> </u>	44 T	(نالل ب
If answer is "no," necessary.)	list the owners and tr	act descriptions	which have actual	lly been cons	ONZERVATIO solidatedy (Wse	Treverse side of this form
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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 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 l" 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.

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

1124-9	1124-7	1124-6	Hole Number
SE/4NW/4	SW/4NW/4	NW/4NE/4	Description
œ	6	32	Location Section
165	165	158	Township
7 W	7W	7w	Range
5,360'	5,520'	5,680'	Elevation
1124-3001	1124-3001	1124-2001	AMAX Lease No.
V.H. Cunningham	V.H. Cunningham	New Mex. GTR-290	Land Status

