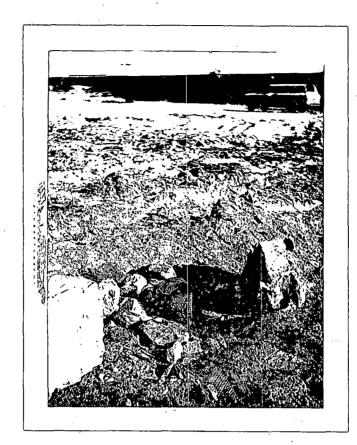
GTLT - ____14____

H.N. Bailey & Associates 10-21S-1W Dona Ana County

Well No. 9,15,10-14(PA)



STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

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

ENERGY AND MINERALS DEPARTMENT	P. O. BO		Adopted 10-1-74
NO. OF COPIES RECEIVED	SANTA FE, NEW	MEXICO 87501	Revised 10-1-78
DISTRIBUTION		RECEIVED	•
File	SUNDRY NOTICES		
N. M. B. M.	ON	AND HEI ON 13	5. Indicate Type of Lease
U, S, G, S	GEOTHERMAL RES	OURCES WELLS 1 7 89	State NA Fee
Operator		90.010 W 25.01 W 09	5.a State Lease No.
Land Office			PRIVATE
Do Not Use This Form for Proposals to Drill of For Permit -" (Form G-101) for Such Propos	or to Deepen or Plug Back to a D als.)	ifferent Reservo ESI U. OF MORICE	tion
	Temp. Observation Injection/Disposal		7. Unit Agreement Name
ALEX R. MASSON	, INC.		8. Farm or Lease Name BAILEY
	VOOD, KANSAS 6	6052	9. Well No. 10. Field and Pool, or Wildcat
4. Location of Well Unit Letter B 2036	Feet From The EAST	Line and 767 Feet	MILI DOAT
The NORTH Line, Section	10	S Range W	NMPM.
	15. Elevation (Show whether	DF, RT, GR, etc.)	12. County
	S G I 3980'	•	DONA ANA
16. Check App	ropriate Box To Indicate Nat	ure of Notice Report or Oth	
NOTICE OF INTENTION	ı	•	
□ 1	UG AND ABANDON	REMEDIAL WORK	SEQUENT REPORT OF:
TEMPORARILY ABANDON	SG AND ABANDON	COMMENCE DRILLING OP	ALTERING CASING NS. D PLUG & ABANDONMENT [
	ANGE PLANS	CASING TEST AND CEMEN	
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OTHER CHANGE OF OPE	ERATOR 🛭 🖾	OTHER	
17. Describe Proposed or completed Operation proposed work) SEE RULE 203.	ons (Clearly state all pertinent o	details, and give pertinenct date	s, including estimated date of starting any
CHANGE OF OP	ERATOR FROM	HARPY NI RAII	EY
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10 ALEX	R. MASSON, IN	JC .	
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18. I hereby certify that the information above is true and considered the signed by t	9	DATE	9112189
(2010)	DISTRICT SUPERVISOR		9 70 09
APPROVED BY () & CAMMING	TITLE	DATE	1-28-81

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

September 20, 1989

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Commercial Union Insurance Companies P. O. Box 937001 El Paso, Texas 79937

Attention: Gail A. Magness

Re: \$10,000 Multiple Well, Low

Temperature Geothermal Bond Harry N. Bailey, Principal

Bond No. CE 71353-20

Dear Ms. Magness:

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

Sincerely,

WILLIAM J. LEMAY

Director

dr/

cc: Oil Conservation Division District IV

> Bailey & Assoc. Corp. 25256 Terreno Drive Mission Viejo, Ca. 92691

				Form G-103 Adopted 10/1/74
NO. OF COPIES RECEIVED		$\neg \neg$	NEW MEXICO OIL CONSERVATION COMMISSION	
DISTRIBUTION			P. O. Box 2088, Santa Fe 87501	8 1982
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N. M. B. M.			SUNDRY NOTICES AND REPORTS OIL CONSEN	WALION DIVISION
U. S. G. S				NTA Indicate Type of Lease
Operator	1	· -	GEOTHERMAL RESOURCES WELLS	State Fee 🔀
Land Office	ľ			5.a State Lease No.
				Private
Do Not Use This Form for P For Permit —" (Form G-101)			Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application Proposals.)	
1. Type of well Geothe	ermai	Produ	cer Temp. Observation	7. Unit Agreement Name
Low-To				N/4
2. Name of Operator		-		8. Farm or Lease Name
H.N. Railey 4	Ĥ	SSC	ciates	H. N. Bailey
	Χ	128	8, Las Cruces, New Mexico 88001	9
4. Location of Well Unit Letter	Z	000	8, Las Cruces, New Mexico 8800/	10. Field and Pool, or Wildcat
			10 Township 21S Range W NMPM	
The Mort	10, 30	.011011	NangeN	
	111.	1111	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
			1111 GL 3980 Feet	Dan A. Aller
16.		Check	Appropriate Box To Indicate Nature of Notice, Report or Other D	Data
NOTICE				
PERFORM REMEDIAL WOR	r			ENT REPORT OF:
TEMPORARILY ABANDON	г	7	PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
PULL OR ALTER CASING	· [_	CHANGE PLANS CASING TEST AND CEMENT JO	☐ PLUG & ABANDONMENT ☐
FOLL OR ALTER CASING				
			OTHER location about	e is corrected location &
OTHER				
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17. Describe Proposed or co			perations (Clearly state all pertinent details, and give pertinenet dates, inc	cluding estimated date of starting any
0 .		1	U of T 1 OI	
Propose to	င (ha	age well #9 from Temperature Obs	ervation Status
to Co	14.	۔ د ۔ ا	ial Producer by completing the well a	s Pollans.
	0 (N	. C 4- 41	at troducer by completing the well a	2 kg mag e
<i>\</i>	10	l om	mence drilling approximately 3-8-82	
r	7 5	Ja. 1	I to inch hole to 10 feet and set 5%	Contract soul water
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-	≾. ¹	0+1	il 5 inch hole to 100 feet	s •
•	4.	Se-	+ 4/2 inch casing to approximately 30	<i>feet</i>
	~	10	t 4½ inch casing to approximately 30 lee packer in open hole below casing	\mathcal{L}
	٠.	110	te packet in open hole below casing	and cement.
		ع.م. ح	ing to formation bringing cement o	ill the way
		4		en the way
		ΨŒ	the surface	
	Ġ.	R.	open hole.	
			speec note.	
18 I hereby certify that the	infor	matio	a above is true and complete to the best of my knowledge and belief.	
	/ˈ)	7)	A A	
SIGNED Kinhaud	/ `	Y `	Johne TITLE Consultant	DATE 3-2-82
SIGNED 1 COMMUN		K =	A VINCE IIILE CONSULTANT	DATE S- L O C
		7	. 1	
APPROVED BY	vil	L 6	lling SENIOR PETROLEUM GEOLOGIST	
WELKO AED BA				DATE

CONDITIONS OF APPROVAL, IF ANY:

Mr. Carl Ulvog Senior Geologist Senior Geologist Oil Conservation Division Energy and Minerals Department P.O. Bbx 2088 State Land Office Building Santa De, Mew Mexico 87 501.

Dear Mr. Ylvog: Enclosed please find the original and two copies of the form G-103 for Well # 9 on the A. M. Bailey property near Raduin Springs, New Mexico. The well has been completed as a production well and temporarily capped. also enclosed is a copy of a letter from the cementing and. plugging contractor to Harry Bailey. This letter contains the data which you requested on the cementing and plugging operations which took place in your absence on the five temperature observations wells on the H. M. Bailey property. It is my belief that Harry Bailey is now in full compliance with New Mexico State law as pertains to the status and completion of temperature observation

.

Page 2 Call Uluage 4-26-82

and geothermal production wells located on his property near Radium Springs, New Mexico. Please inform me if this is not the case.

.....

Sincerely, Richard L. Lohse

Consultant

Bill for services Max Klutha Bix 24 Radum Springs M. M. 88054 H. N. Bailey Route 1 Box 12-88 fas Cruces n.M. In closing off 5 wells I used the following procedures: Dig around casing to a depth 2 Cut off casing it 2 feet below the surface. 3 Cement and fill wells Well # 10 paper plug pushed to 10 feet filled with coment from 10/t to 2/t Cement cap 6" thich on top of casing Note backfulled to sunface #11 felled with dirt to 7 feet coment cap 6" thick on top of casing. Hole back felled to surface.

Well # 12 filled with dirt to 19 feet " cement from 196t to 126t dest from 126t to 76t " coment from 4ft to 2ft coment cap 6" thick on top of casing Note backfilled to surface. # 13 fulled with dert to 26 ft " coment from 26 ft to 14 ft · dest from 19ft to 4ft coment from 4ft to 2ft coment cap & 6" thick on lop of caring Nole back filled to surface. # 14 felled with dert to 15 feet · coment from 15 feet to 8/t " dert from 8/t to 4ft cement cap 6" thick on top of casing. all coment used was Sakcrete concrete, mix. 8 bags were regured. 11 hrs shovel work at 400 hr. **@**_ 4 hrs. torch work at 1000 lin 8 hrs. coment work at 7° kr. **D**_ Malerials 8 bods bags Sakorele at \$250 2000 Max Klutha



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

March 14, 1988

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Commercial Union Insurance Companies P. O. Box 937001 El Paso, Texas 79937

Attention: Gail A. Magness

Re: \$10,000 Multiple Well, Low-Temperature

Geothermal Bond

Harry N. Bailey, Principal

Bond No. CE 71353-20

Dear Ms. Magness:

I am in receipt of your letter of March 8th regarding the cancellation of the above-referenced geothermal bond. I am enclosing a copy of Mr. Roy E. Johnson's letter of October 17, 1986 regarding the wells remaining on this bond. As the attached letter indicates the Bailey Well No. 9 still remains on this bond so we cannot release it at this time.

If you have any further questions, please feel free to contact me.

Singerely,

DIANE RICHARDSON

Administrator

Bonding Department



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA

October 17, 1986

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

Mr. Harry N. Bailey 25256 Terreno Drive Mission Viejo, California 92675

Re: Geothermal Bond

Radium Springs, New Mexico

Dear Mr. Bailey:

We are in receipt of your letter and waiver of October 5, 1986. Your request for release of the bond on your geothermal wells cannot be released as of this time. According to our records Alex R. Masson is the new operator of the Bailey Well No. 15 located 522 feet from the North line and 2482 feet from the West line in Section 10, Township 21 South, Range 1 West. The Bailey Well No. 9, located 660 feet from the North line and 2100 feet from the East line of Section 10, Township 21 South, Range 1 West is still officially listed as H. M. Bailey and Associates as operator. In Order for your bond to be released, this well must either be plugged and abandoned or ownership of the well must be transferred to a new operator.

Should you have any questions pertaining to this matter, please contact me at this office.

Sincerely,

ROY E. JOHNSON, Sr. Petroleum Geologist

REJ/dr

Well#9
File Copy

								Adopted 10/1
NO. OF COPIES RECEIV	ED		NEW MEXICO OIL	_ CONSE	RVATION COMMISSION	ON		
DISTRIBUTION			P. O. Bo	× 2088, S	Santa Fe 87501			·
File		1				,	r 	
N.M.B.M.							5. Indicate T	37.14
U.S.G.S.	1		APPLICATION FO	RPERM	IIT TO DRILL, DEE	PEN,	STATE	
Operator	1		OR PLUG BACK G	EOTHER	RMAL RESOURCES	WELL	5.a State Lea:	
1=and=Office 3 L M							Priva	te
1a. Type of Work	orill 🛭		Deepen 🗀		Plug Back		7. Unit Agree	ment Name
				_		₩	N/A	
b. Type of Well	Geotherr	nal Produc	cer 🔲	Ţ	· ·	<u>*</u>	8. Farm or Le	ase Name
L	ow-Ten	np Therma	ı 🗆	In	jection/Disposal		. н.м.	Bailey
2. Name of Operator							9. Well No.	
H. M. Bailey	& Ass	ociates	•				#9	
3. Address of Operator								Pool, or Wildcat
Route 1, Box	1288,	Las Cr	uces, New Mexico	88001	L		Wilde	at
4. Location of Well UN	IIT LET	rer <u>B</u>	LINE OF SEC. 10 T	FEET F	ROM THE North	1LINE		
	1111	IIIIII					12. County	
							Dona Ana	
	1111	11111		11111	19. Proposed Depth	19A. Formatic	on · [20. Rotary or C.T.
					500			Rotary
21. Elevations (Show whe	ther DF,	RT, etc.)	21A. Kind & Status Plug		21B. Drilling Contract	or	22. Approx.	Date Work will start
			NO. CE- 71353-14	-	Larjon		30 Mar	ch 1981

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4-inch	1-inch				

This will be a temperature observation well, with a maximum depth of 500 feet. The well will be completed by inserting a 1-inch steel pipe. After completion of temperature logging, approximately 60 days, the pipe will be removed and the hole will be plugged and abandoned.

APPROVAL VALID FOR 70 DAYS FERMIT DAYRES UNDERWAY UNLESS DRILLING UNDERWAY	ON CONSERVATION COMMISSION TO BE NOTIFIED WITHIN 24 HOURS OF BEGINNING OPERATIONS
	f proposal is to deepen or plug back, give data on present productive zone and proposed new productive
I hereby tertify that the information above is true and com	plete to the best of my knowledge and belief.
Signed Male Sul Eddie Bailey	Title Local Agent, H.M. Bailey & Assoc. Date 27 March 1981
(This space for State Use)	
APPROVED BY Carl Ulung CONDITIONS OF APPROVAL, IF ANY:	TITLE SENIOR PETROLEUM GEOLOGIST DATE 4/2/8/

NEW MEXICO OIL 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 distances must be from the outer boundaries of the Section. Well No. Operator H. M. Bailey & Assoc. 9 Private County Township Range Unit Letter Section Dona Ana 10 1W 21S Actual Footage Location of Well: North 2100 feet from the line and feet from the line Dedicated Acreage: Producing Formation Pool Ground Level Elev. Unknown Wildcat Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation_ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Eddie Bailey Position Company H.M. Bailey & Assoc. 27 March 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. 1650 660 1320 1980 2310 2€40 2000

Memo

4/30/81 Drom

CARL ULVOG

Jo File Bailey #9 Bailey
B-10-215-IW Dona Ana Co.

No notification given OCD of spudding, casing, or completion.

Inspection on 4/28/81 found drilling done, 7" casing at surface. No other pipe in evidence (see picture)

Hold for impedion

4 G-106

4 G-106

med G-104, 1054107

additional

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

Dutil Letter B Section of Well Township 215 Range 1 W Crossity Dona Ana Actual Troubse Location of Well Township 2215 Range 1 W Crossity Dona Ana Actual Troubse Location of Well Township Township Remarkson the Pool Troubse Comment of the Section of Well Troubse Comment of the Section o	All distances must be t	rom the outer boundaries of the Sect	ion,	
Actival Footness location of West 767,22 feet from the North Pool Pool Pool Pool 1. Outline the acreage dedicated to the subject well by colored pencil or hachare marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and toyalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? 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 nonstandard unit, eliminating such interests, has been approved by the Commission. **TITLE AND ACTION** **OFFICE TOPALE** **OFFICE TOPALE** **OFFICE TOPALE** **Name H. N. Balley* **OFFICE TOPALE** **OFFICE TOPALE** **Name H. N. Balley* **OFFICE TOPALE** **OFFICE TO	Opurator	Lease		_
767.22 free from the North the North the and 2036.25 free from the East the Sec. 10 Ground Level Bev. Producing Formation Pool 1. Outline the acreage dedicated to the subject well by colored pencil of hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty) 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, untitization, force-pooling, etc? 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, untitization, forced-pooling, or otherwise) or until a non-standard unit, elaminating such interests, has been approved by the Commission. **PROVED TO CONSOLITE TO PROVIDE THE PROVIDE TO PROVIDE THE P	_ !		Dona	Ana
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes No If answer is "yes," type of consolidation	Actual Footage Location of Well:	. 2036.25	. East	Sec. 10
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty): 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, untitization, force-pooling, etc? [Yes		T		
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc! Yes				
and royalty): 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes	1. Outline the acreage dedicated to the subject well b	y colored pencil or hachure mark	cs on the plat be	elow.
CERTIFICATION 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. **R89***** **CERTIFICATION** I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. **Named** H. N. Bailey **Overcr* Company H. N. Bailey **Destination Owner Company H. N. Bailey **Destination Overcr* Company H. N. Bailey **Destination Overcr* Tompany H. N. Bailey Oct / 0 , 1982 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. **No.** **No.** **Total Company 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. **No.** **No.** **Total Company H. N. Bailey Oct / 0 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N. Bailey Oct / 10 , 1982 **Total Company H. N.	· ·	outline each and identify the ow	nership thereof	(both as to working interest
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name H. N. Bailey Position Oct. Oct. 10, 1982 I hereby certify that the well location shown on this plat was plotted from field not 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 Sept. 25, 1982 Rejetsered Professional Engineer and Surveyor P. E. & L. S. Cettificate No. 1108		edicated to the well, have the in	nterests of all o	wners been consolidated by
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name H. N. Bailey Position Oct. Oct. 10, 1982 I hereby certify that the well location shown on this plat was plotted from field not 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 Sept. 25, 1982 Rejetsered Professional Engineer and Surveyor P. E. & L. S. Cettificate No. 1108	Yes No If answer is "yes," type of a	consolidation		-
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. WELL #9 ONL CONSOLVELING SANTA FE ONTHER	•			
forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **REPLY CERTIFICATION** hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name	* *			
CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name H. N. Bailey Position Owner Company H. N. Bailey Date OCT /0, 1982 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 Sept. 25, 1982 Registered Processional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308				
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Sec 10 Tels 1982 OIL CONSUMPTION SANTA FE SEC 10 Tels 100 Solve No. 1308 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. WELL 199 Name H. N. Bailey Position Owner Company H. N. Bailey Date Oc 7 10, 1982 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. Sept. 25, 1982 Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308	we will be a second of the sec	,	e com approve	· · · · · · · · · · · · · · · · · · ·
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Sec 10 Tels 1982 OIL CONSUMPTION SANTA FE SEC 10 Tels 100 Solve No. 1308 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. WELL 199 Name H. N. Bailey Position Owner Company H. N. Bailey Date Oc 7 10, 1982 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. Sept. 25, 1982 Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308	N 8942 N 14	N 89°38 W	1	CERTIFICATION
Contained herein is true and complete to the best of my knowledge and belief. Santa FE OCT 18 1982 Name H. N. Bailey Position Owner Company H. N. Bailey Date OCT 10, 1982 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. Sept. 25, 1982 Resistered Professional Engineer and for Land Surveyor P.E. & L. S. Certificate No. 1308	960	¬ .	I hereby	
Name H. N. Bailey Position Owner Company H. N. Bailey Date OCT 10, 1982 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 Sept. 25, 1982 Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308	0 1/2 8 1/2		1 (-
Name H. N. Balley Position Owner Company H. N. Balley Date Oc7 10, 1982 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. No. 1308 Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308	WEIL #9		the best of	my knowledge and belief.
H. N. Bailey Position Owner Company H. N. Bailey Position Owner Company H. N. Bailey Date Oc7 /0, 1982 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 Sept. 25, 1982 Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308	(GAPPED)	1	3	1/300 6-
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Registered Professional Engineer and/or Land Surveyor P.E. & L. S. Certificate No. 1308		Milliam A Willy	i>i	25 1982
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BRUCE KING

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

November 9, 1982

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Commercial Union Insurance Companies P. O. Box 20666 El Paso, Texas 79998

> Re: \$10,000 Multiple-Well Low-Temperature Geothermal Bond

Harry N. Bailey, Principal

Commercial Union Insurance, Surety

Bond No. CE-71353-20

Gentlemen:

I have checked with Mr. Carl Ulvog of this office regarding the cancellation of the above-referenced bond. He advises me that this bond still cannot be released as the paperwork for the No. 9 Well (B-10-21S-1W) is not complete.

Please have Mr. Bailey contact Mr. Ulvog regarding the forms which should be submitted. Mr. Ulvog has suggested that this bond could be released if Mr. Bailey obtained a one-well bond for the No. 9 well referred to above.

If we can be of any further assistance, please advise.

Sincerely,

DIANE RICHARDSON Administrative Secretary Legal Department

F 2640' 2029-Aire C = b su L C = b Den 6 983,89 = 611.05 = 6 (2640'-611'= 2029') 7 67. C2-62 = a = 771.14

NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE 87501 GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION All distances must be from the outer boundaries of the Section. OCHALER H.N. Bailey DONA ANA Actual Footage Location of Wellfeet from the feet from the line and Ground Level Elev. Dedicated Acreage: Producing Formation 4025 120 Acres 1. Outline the acreage dedicated to the subject well by colored pehvil or bachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working intere and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated 1 communitization, unitization, force-pooling, etc? 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 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. ACCEPTABLE SEC 10 Attached Registered Professional Engineer and/or Land Surveyor P.E. & L.S.

1000

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#1308

RULE 201. APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK-GEOTHERMAL RESOURCES WELL (FORM G-101)

Before commencement of drilling or deepening operations of any geothermal resources well, or before plugging a well back to another zone, the operator of the well shall obtain a permit to do so. To obtain such a permit the operator shall submit to the Commission FOUR copies of Form G-101, Application for Permit to Drill, Deepen, or Plug Back-Geothermal Resources Well, completely filled in. If the operator has an approved bond in accordance with Rule 101 and has filed satisfactory "Designation of Agent" (Rule 100), and the proposed well meets the spacing and well location requirements (Rule 104), one copy of the Drilling Permit will be returned to him on which will be noted the Commission's approval, with any modification deemed advisable. If the proposal cannot be approved for any reason, the Forms G-101 will be returned with the cause for rejection stated thereon.

Each copy of Form G-101 must be accompanied by one copy of Form G-102, Geothermal Resources Well Location and Acreage Dedication Plat. (See Rule 202.)

If the well is to be drilled on state land, FIVE copies of Forms G-101 and G-102 shall be submitted, the extra copy being for the State Land Office.

RULE 202. GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT. (FORM G-102)

Form G-102 is a dual purpose form used to show the <u>exact</u> location of the well and the <u>acreage dedicated thereto</u>. The form is also used to show the ownership and status of each lease contained within the dedicated acreage. When there is more than one working interest or royalty owner on a given lease, designation of the majority owner et al. will be sufficient.

All information required on Form G-102 shall be filled in and certified by the operator of the well except the well location on the plat. This is to be plotted from the outer boundaries of the section and certified by a registered professional engineer and/or land surveyor, registered in the State of New Mexico, or a surveyor approved by the Commission.

Form G-102 shall be submitted in QUADRUPLICATE or QUINTUPLICATE as provided in Rule 201.

Amended Form G-102 (in QUADRUPLICATE or QUINTUPLICATE) shall be filed in the event there is a change in any of the information previously submitted. The well location need not be certified when filing amended Form G-102.

B. ACREAGE AND WELL LOCATION REQUIREMENTS

(1) Exploration Wells

A well classified as an exploratory well shall be located on a designated drilling tract comprising at least 40 surface acres (being a quarter-quarter section of the U. S. Public Land Surveys, or a projection thereof if on unsurveyed land), and shall be located at least 330 feet from the outer boundary of the quarter-quarter section, at least 660 feet from the nearest such other well drilling to or capable of producing from or injection into the same formation to which it is projected, and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(2) Development Wells

A well classified as a development well shall be located on a designated drilling tract comprising at least 10 surface acres (being a quarter-quarter-quarter section of the U.S. Public Land Surveys, or a projection thereof if on unsurveyed land), and shall be located at least 165 feet from the outer boundary of the quarter-quarter-guarter section, at least 330 feet from the nearest well drilling to or capable of production from or injection into the same geothermal reservoir to which it is projected, and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(3) Injection Wells

Injection wells drilled for the purpose of injecting into a geothermal reservoir shall be located at least 330 feet from the outer boundary of the lease or drilling parcel and at least 100 feet from any public road, street, or highway dedicated prior to commencement of drilling.

(4) Disposal Wells

There shall be no restriction as to the placement of geothermal disposal wells.

C. NON-STANDARD LOCATIONS

- (1) The Secretary-Director of the Commission shall have the authority to grant an exception to the well location requirements of Rules B (1), (2), and (3) above without notice and hearing when such application is based upon topographical or geologic or engineering considerations.
- shall be filed in duplicate and shall be accompanied by a plat showing the ownership of surrounding lands (within a 990-foot radius of the proposed location if application is for exception to Rule 104 B (1) Exploration Wells; within a 495-foot radius of the proposed location if application is for exception to Rule 104 B (2) Development Wells; within a 990-foot radius of the proposed location if application is for exception to Rule 104 B (3) Injection Wells) and all drilling or completed wells thereon. If the proposed non-standard location is based upon topography, the plat shall also show the existent topographical conditions. If it is based upon geologic or engineering considerations, the application shall be accompanied by a geologic or engineering analysis, explaining the necessity for the non-standard location.

FROM THE DESK OF . . .

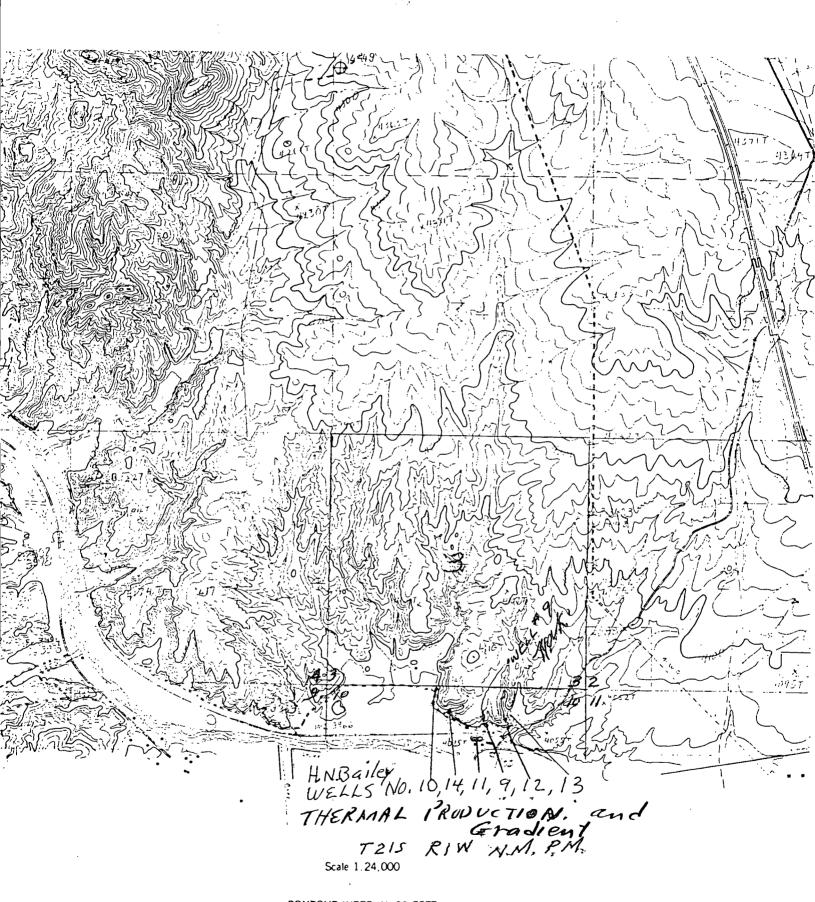
Harry Bailey

Werro 7-13-82
To: Carl allvog
Joan Carl Sorry to have Missod You the other don when I was in Santate
<u> </u>
The inclosed form 102 should take care of any Unferrished items of at Radium Springs -
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Will let you know when we are ready to did the next productery well -
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NEW MEXICO OIL CONSERVATION COMMISSION

P. O. BOX 2088 SANTA FE 87501

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION All distances must be from the outer boundaries of the Section. Well No. OWKER SALGE County DONA AN Actual Footage Location of Well: feet from the line and · line Producing Formation Dedicated Acreage: Pool 4005 4025 120 Acres 1. Outline the acreage dedicated to the subject well by colored pentil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working intere and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated I communitization, unitization, force-pooling, etc? No If answer is "ves," type of consolidation. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitizatio forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. by me or TULY 5 198
Registered Professional Engineer PE, & L.S. Certificate : No. 1500 1000 500



Harry Bailey H.N. Bailey & Associates 410 Thorpe Road Las Cruces, N.M. 88005

Dear Harry:

According to your telephone call of June 28, 1982,
you do not understand why your completion of the
Bailey Well No. 9 (8-10-215-1W) has not been approved.

Attached are copies of notices sent to your address of
vecord (P.O. Box 1288) which should be self-explanatory.

However, since Rule 202 has not yet been complied
with, here is a reprint of that rule for your
information.

RULE 202. GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT. (FORM G-102)

Form G-102 is a dual purpose form used to show the exact location of the well and the acreage dedicated thereto. The form is also used to show the ownership and status of each lease contained within the dedicated acreage. When there is more than one working interest or royalty owner on a given lease, designation of the majority owner et al. will be sufficient.

All information required on Form G-102 shall be filled in and certified by the operator of the well except the well location on the plat. This is to be plotted from the outer boundaries of the section and certified by a registered professional engineer and/or land surveyor, registered in the State of New Mexico, or a surveyor approved by the Division.

Form G-102 shall be submitted in QUADRUPLICATE or QUINTUPLICATE as provided in Rule 201.

Form G-103 Adopted 10/1/74 NEW MEXICO OIL CONSERVATION COMMISSIO NO. OF COPIES RECEIVED P. O. Box 2088, Santa Fe 87501 DISTRIBUTION OIL CONSUMATION UNDOUG N. M. B. M. SUNDRY NOTICES AND REPORTS SANTSA fidicate Type of Lease U. S. G. S State 🗆 Operator **GEOTHERMAL RESOURCES WELLS** 5.a State Lease No. Land Office Do Not Use This Form for Proposals to Drill or to Deepen or Piug For Permit -- (Form G-101) for Such Proposals.) Unit Agreement Name Geothermal Producer Temp, Observation 2. Name of Operator H. N. Bailer 10 Township 21S 15. Elevation (Show whether DF, RT, GR, etc.) GL 3980 Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING TEMPORARILY ABANDON COMMENCE DRILLING OPNS. PLUG & ABANDONMENT PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB 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. Propose to change well #9 from Temperature Observation status to Geothermal Producer by completing the well as follows: 1. Commence drilling approximately 3-8-82 2. Drill 6 inch hole to 10 feet and set 5 % inch conductor 3. Drill 5 inch hole to 100 feet 4. Set 4/2 inch casing to approximately 30 feet 5. Place packer in open hole below casing and easing to formation bringing to the surface G. Reopen hole

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Dick Lohse:

Here is copy of O.C.D. response to G-103 dated 3-2-82. This explains why that Notice of Intent was not officially approved (in writing).

		स्त्रीचा <u>त</u>	Form G-103 Adopted 10/1/74
NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSER	VATION COMMISSION	2 1000
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N. M. B. M.	SUNDRY NOTICES		MALIUN UNIONIC
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Operator / .	GEOTHERMAL RESC	URCES WELLS	State Fee 🖾
Land Office			5.a State Lease No.
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Do Not Use This Form for Proposals to For Permit -" (Form G-101) for Such	Drill or to Deepen or Plug Back to a Dif Proposals.)	ferent Reservoir. Use "Application	
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Low-Temp Therm	nal 🗆 Injection/Disposal 🗀	<u> </u>	N/A
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Obove proposed OK, but approval require Form C-102 signed by bieneed surveyor. See Rule 202

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Here is copy of O.C.D. response to G-103 dated 3-2-82. This explains why that Notice of Intent was not officially approved (in writing).

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3/8/82

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Memo: To File Bailey #9, B-10-215-1W

On 2/24/82, I met with H. Bailey and Dick Lobse in Las Cruses. At that time, previously agreed to plan for plugging all Bailey wells began; except for #9, which Bailey changed his mind on. He then wanted to keep #9 for observation purposes. Proposal submitted 3/8/82 is essentially the approved option to the plugging demand. Note: The 5% "esq. is already at 10' but not semented. The 5" hole is sheady drilled to 100'.

Carl Lelway

I N	C L A	F A	н О U	Q	FIELD TRIP REPORT 2/23/82					
S P	s s	C	R	A R T	Name Carl Ulvog	to Date 2/25/82	Miles 745 District IV			
E C T	F I C	L I	۵	E R	Time of Departure 10:00 A.M. 2/2					
I O N	CATION	Y		H O U R S	In the space below indicate the performed, listing wells or lease Signature Carl Llvo.	s visited and any acti	l the duties on taken.			
					From Santa Fe to Dona Ana and Lu witnessing various well operation		nspections and			
P	0	D	18	7	B & C -10-21S-1W (5 wells): Exa as geothermal gradient (heat flo Develop plugging programs and wi	ow) wells but not pro	perly completed.			
R	0	D	8	}	B-10-21S-1W (1 well): Inspect completed. Prescribe (a) pluggi cementing procedure to maintain	ng program or (b) wo	rkover and casing-			
T	0	D	9		K-4-24S-8W (1 well): Inspect will 12,000' and now testing. Well-hard pump truck and acid tanks. No p	nead in place, froc l	ines hooked to			
-	-	-	21	,	Off duty field time.		·			
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т			CTIO		INSPECTION		NATURE OF SPECIFIC WELL			
-		FORME			CLASSIFICATION		OR FACILITY INSPECTED			
. C	- P - P - W	luggi luggi ell 1	ng C	leanup	U = Underground Injection Contro related to injection project resulting from injection int injection and production well tests, surface injection equ	, facility, or well or o any well. (SWD, 2ndry ls, water flows or pressur	D = Drilling P = Production I = Injection C = Combined prod. inj. operations			

F - Waterflow

S - SWD

Harry N. Balley NSERVATION DIVISION

SANTA FE

June 27, 1981

State of New Mexico Oil Conservation District P.O. Box 2088 Santa Fe, New Mexico 87501

Attention:

Carl Ulvog

Subject:

Radium Springs Tests

Second Report

Dear Mr. Ulvog:

Dick Loshe who is now working on the geology report advises it will be completed by the end of this month. As soon as we have reviewed this data we will determine which holes will be filled and abandoned, and which will be prepared for use and which will be subjected to further drilling.

Mr. Loshe will meanwhile act as my representative on this project with instructions to coordinate these matters with your office to assure that we are proceeding in accordance with regulations. If we encounter any unresolved problems concerning permits or procedures, he will advise me and we will arrange whatever action is necessary. Should you need to contact him his new home number is 505-526-8870 in Las Cruces.

Of course, our objectives in making these shallow probes, regardless of what we call them, is to determine the availability, depth and temperatures of the surface waters on our property. Further studies and research will be needed to determine the best use that can be made of this resource.

As soon as I have a chance to read the report we will see that you get a copy as promised.

cc: Dick Loshe
Eddie Bailey
Philo Jones

CHAIRMAN — H.N. BAILEY & ASSOCIATES BAY JET INTERNATIONAL KIT PACK
COMPANY SCIENTIFIC ENGINEERING NEW MEXICO RESORT PROPERTIES

Harry N. Bailey



(213) 924-1150

State of New Mexico Energy and Minerals Dept Post Office Box 2088 Santa Fe, New Mexico 87501

Attention: Oil Conservation Division

Carl Ulvoq

Subject: Test Holes at Radium Springs

This is an interium report pursuant to our phone conversation last week and is hased preliminary information phoned by Larjon.

- All drilling has been discontinued as of 15 June 1981.
- 2. Test hole locations have been posted with identifying signs with serial numbers.
- 3. H.N.B. #14 was discontinued at 130° water developed in the lost 30' with temperatures 144°.
- 4. H.N.B. #15 was discontinued at 27' with capious flow(approx 100 g.p.m. at 144. The heat and flow generated, posed operating problems that led to shuting down for safety reasons.
- 5. Geologist from N.M.S.U. is preparing a report based on a study of the area and preliminary surface drilling activities.
- 6. Decision on further tests, abandonment (filling up the holes) and/or casing program for production wells will be based on study of above report expected next week.
- 7. We will be glad to make a copy available to your division when G103 forms are filed. It is our desire to keep you posted as events transpire and trust we will be in compliance with district and state regulations. Your continued interest and cooperation is very much appreciated.

CHAIRMAN - H.M. BAILEY & ASSOCIATES BAY JET INTERNATIONAL COMPANY SCIENTIFIC ENGINEERING NEW MEXICO RESORT PROPERTIES

H. N. BAILEY

and

ASSOCIATES

Gerospace Products

P.O. BOX 10788 SANTA ANA, CALIFORNIA 92711

Tele (714) 835-1911

Las Crus Tile 524-1406

The following wells are on our property at Radium Springs New Mexico

	LOCATION	SECTION	TWP	RGE	APPROX DEPTH	APPI CAPI	ROX ACITY
1.	Iot ll SE¼ Cattle Watering	4	21S	1W	50'	5	GPM
2.	S½, S½ Mid Pints - Windmil	3 l - Household use	21S	lW	35'	4	GPM.
3.	Lot 9 N½, N½ Cattle Watering	10	21S	lW	30'	4	GPM
4.	Lot 11 N ₂ , N ₂ 7" Production well	10 drilled by Bob Bo	21S yd	lW	110'	150	OGPM
5.	No Pt Lot 2 N½ of N½ Hot water	10 well for Bailey E	21S aths	lW	25'	10	GPM
6.	No Pt Lot 4 Hot Bath House well	10 (Not in use)	215	IW	20'	5	GPM
7.	SW4, NW4 of WHF & SE Well on west side of the	14 drilled by Bob Bo Fort.	21S byd between	lW Ft. Selder	110' Ruins and US		GPM Canal
8.	The following well	22	T22	ΙE	430'		GPM
				TICTIC IDeach	- A - AODI = nd	1-49F	₹ .

Former elementary school, further described in USRS Tract 4-49Bl and 4-49B This facility is leased to Kit Pack Company by H. N. Bailey

1962 Embassy, Apt. D Las Cruces, New Mexico 88005 January 16, 1984

Mr. Carl Ulvog, Senior Geologist Oil Conservation Division Energy and Minerals Department P.O. Box 2088 State Land Office Building Santa Fe, New Mexico 87501



Dear Carl:

I hope you and your family had a happy and safe Holiday Season. As we discussed in our telephone conversation just prior to the holiday break, I am submitting the originals along with the appropriate number of copies of the Form G-103 for the wells labeled H.N. Bailey #9 and #15. The forms are filed as a "subsequent report of" Temporary Abandonment and state the manner in which the wells were capped.

Harry Bailey would like Temporary Abandonment permits for both of these wells for the following reason. Negotiations to utilize the geothermal fluids are currently being held between Mr. Bailey and several potential geothermal users; however, the talks are not advanced enough at this time to allow for the proper design and construction of the production well-heads in such a manner as to obtain the optimum efficiency of the wells.

It is understood that before any work can be performed on the wells, they will have to be taken off the Temporary Abandonment status. Also, before production can occur, the wells will have to be equipped with the proper well-head equipment and the proper discharge permits will have to be obtained. Currently, both wells have steel plates welded to the top of the production casings.

Sincerely,

Richard L. Lohse Geothermal Consultant

cc: Harry Bailey

		Adopted 10/1/74
NO. OF COPIES RECEIVED NEW MEXICO OIL CONSER	VATION COMMISSION	
DISTRIBUTION P. O. Box 2088, Sa	nta Fe 8750 19 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
File / /	18 TIME TO THE TOTAL PROPERTY OF THE PROPERTY	
N. M. B. M. SUNDRY NOTICES	AND REPORTS JAN 191984 51 10	
U. S. G. S	JAN 191984 5 1 m	cate Type of Lease
Operator / GEOTHERMAL RESC	PURCES VIETO CONSERVATION DIVERSION	Fee 🗵
Land Office	OIL CONSERVATION DIVISION	te Lease No.
	SANTA FE	Private
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Diffor Permit —" (Form G-101) for Such Proposals.)	ferent Reservoir. Use "Application	
1. Type of well Geothermal Producer 🔀 Temp. Observation	7. Uni	t Agreement Name
Low-Temp Thermal Injection/Disposal		N/A
2. Name of Operator H. N. Bailey & Associates	i	m or Lease Name H.N. Bailey
3. Address of Operator 410 Thorpe Rd., Las Cruces, NM 880	9. Wel	
4. Location of Well 2036		eld and Pool, or Wildcat
Unit Letter B; 2,000 Feet From The East	/ 4 /	Wildcat
The North Line, Section 10 Township 21S	Range 1W NMPM.	
The state of the s	DE DE CR. stali	
		Ana
Check Appropriate Box To Indicate Natu	ire of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REP	ORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS	CASING TEST AND CEMENT JOB	
	Tomporosy Aband	onmont .
	OTHER Temporary Aband	onment (X
OTHER		
17. Describe Proposed or completed Operations (Clearly state all pertinent de proposed work) SEE RULE 203.	etails, and give pertinenet dates, including est	imated date of starting any
This well is temporarily capped by a	a steel plate which is welded	
to the production casing (i.e., condu		
to the production of the state	, , ,	
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	ARY ABANDONMENT STATUS EXPIRE	
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18. I hereby certify that the information above is true and complete to the best	of my knowledge and belief.	
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SIGNED Kichard I I tolan	Consultant	1-16-84
SIGNED I WILLIAM I WILLIAM IIILE	DAT	\$ <u></u>
A 5 1		
(prl lloog DIS	TRICT SUPERVISOR DAT	_ 1-19-84
APPROVED BYTITLE	DAT	ξ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

Revised 7-1-75

STATE OF NEW MEXICO \$2,000 ONE-WELL LOW-TEMPERATURE THERMAL WELL OR GEOTHERMAL OBSERVATION WELL BOND

BOND NO. CE-71353-14

(For Use of Surety Company)

(Note: File with Oil Conservation Commission, P. O. Box 2088, Santa Fe 87501)

That HARRY N. BAI	LEY		, (A	n individual) (a pa	rtnership)
(a corporation organized in the S	tate of NEW ME	XICO	, with its p	rincipal office in t	the city of
	, State of		, and :	authorized to do b	ousiness in
the State of New Mexico), as PR					, a
corporation organized and existing to do business in the State of State of State of the sum of the use and benefit of the the sum of Two Thousand (\$2, truly to be made, said PRING severally, firmly by these presents	New Mexico, with of the surety company Oil Conservation Co 000.00) Dollars law CIPAL and SURET	y, as SURETY, are I ommission of New M of the United the United	nt agent ucensed in a neld firmly bound unt exico pursuant to Chanted States, for the	o the State of New apter 272, Laws o payment of which	w Mexico to w Mexico, of 1975, in n, well and
The conditions of this obl	igation are such tha	t:			
WHEREAS, The above p State of New Mexico; and	rincipal has heretof	ore or may hereafte	r enter into geotherm	nal resources lease	s with the
WHEREAS, The above patented by the United States	orincipal has hereton of America to priva	fore or may hereafte te individuals and on	r enter into geotherm lands otherwise owne	nal resources lease d by private indiv	s on lands iduals; and
WHEREAS, The above p may commence the drilling of own or operate such well, or lands patented by the United individuals, the identification a	one well to prospe such well started by I States of Americ	ct for and produce g r others on land emb a to private individu	eothermal resources, craced in said State ge	or does own or ma othermal resources	ay acquire, s leases, on
Lease	Well Nu	umber Unit Let	ter Section	Township	Range
		AILEY-9 B			

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or any of them, shall plug said well, if non-productive or when abandoned in accordance with the rules, regulations, and orders of the Oil Conservation Commission of New Mexico in such way as to confine any geothermal resources or oil, gas, and water in the strata in which they are found, and to prevent them from escaping into other strata;

THEN, THEREFORE, This obligation shall be null and void; otherwise and in default of complete compliance with any and all of said obligations, the same shall remain in full force and effect.

PROVIDED, HOWEVER, that thirty (30) days after receipt by the Oil Conservation Commission of New Mexico of written notice of cancellation from the surety, the obligation of the surety hereunder shall terminate as to property or wells acquired, drilled, or started after said thirty (30) day period but shall continue in effect, notwithstanding said notice, as to property or wells theretofore acquired, drilled, or started.

HARRY N. BAILEY	COMMERCIAL UNION INSURANCE COMPANY
PRINCIPAL	SURETY
RT. 1, BOX 1288, LAS CRUCES, NM 88001	ONE BEACON STREET, BOSTON, MASSACHUSETTS
By Harry N. Miley h Signature OWNER	By Cug and Attorney-in Fact
Title	
(Note: Principal, if corporation, affix corporate seal here.)(Note: If corporate surety executes this bond by an attorney shall countersign here below.)	(Note: Corporate surety affix corporate seal here.) y-in-fact not in New Mexico, the resident New Mexico agent
Countersigned by: / Alway Chile New Mexico Resident Agent	225 E. IDAHO, #21, LAS CRUCES, NEW MEXICO Address 8800
ACKNOWLEDGMENT FORM	FOR NATURAL PERSONS
STATE OF NEW MEXICO) ss.	H, 19_81, before me personally appeared
HARRY N. BAILEY described in and who executed the foregoing instrument and a free act and deed.	to me known to be the person (persons) acknowledged that he (they) executed the same as his (their)
IN WITNESS WHEREOF, I have hereunto set my hand written	Notary Public
My Commission expires	Notary rubile
ACKNOWLEDGMENT FOR	RM FOR CORPORATION
•	
STATE OF	
On this day of	, 19, before me personally appeared, to me personally known who, being by me
duly sworn, did say that he is	of
behalf of said corporation by authority of its board of directo deed of said corporation.	ors, and acknowledged said instrument to be the free act and
IN WITNESS WHEREOF, I have hereunto set my hand written.	d and seal on the day and year in this certificate first above
My Commission expires	Notary Public
ACKNOWLEDGMENT FORM	FOR CORPORATE SURETY
STATE OF	
On thisday of	
being by me duly sworn, did say that he is	ot
behalf of said corporation by authority of its board of director	and that the foregoing instrument was signed and scaled on

deed of said corporation.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the COMMERCIAL UNION INSURANCE COMPANY, a corporation duly organized and existing under the laws of the Commonwealth of Massachusetts, and having its principal office in the City of Boston, Mass., hath made, constituted and appointed, and does by these presents make and constitute and appoint Gene D. Bishop of Las Cruces, New Mexico.

NEXENCEMENT its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf as surety any and all bonds or undertakings

and the execution of such bonds or undertakings in pursuance of these presents, shall be binding upon said Company as fully and amply, to all intents and purposes, as if such bonds were signed by the President, sealed with the corporate seal of the Company, and duly attested by its Secretary, hereby ratifying and confirming all the acts of said Attorney-in-Fact pursuant to the power herein given. This Power of Attorney is made and executed pursuant to and by authority of the following resolutions adopted by the Board of Directors of the COM-MERCIAL UNION INSURANCE COMPANY at a meeting duly called and held on the twenty-seventh day of July, 1972:

Resolved, That the President, or any Vice-President, or any Assistant Vice President, may execute for and in behalf of the company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, the same to be attested when necessary and the seal of the company affixed thereto by the Secretary, or any Assistant Secretary; and that the President, or any Vice President, or Assistant Vice President, may appoint and authorize an Attorney-in-Fact to execute on behalf of the company any and all such instruments and to affix the seal of the company thereto; and that the President, or any Vice-President, or any Assistant Vice-President, may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That Attorneys-in-Fact may be given full power and authority to execute for and in the name and on behalf of the company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the company as if signed by the President and sealed and attested by the Secretary, and, further, Attorneys-in-Fact are hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and are also authorized and empowered to certify to a copy of any of the by-laws of the company as well as any resolution of the Directors having to do with the execution of bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and to certify copies of the Power of Attorney or with regard to the powers of any of the officers of the company or of Attorneys-in-Fact.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Directors of the COMMERCIAL UNION INSURANCE COMPANY at a meeting duly called and held on the twenty-seventh day of July, 1972:

"Resolved: That the signature of the President, or any Vice-President, or any Assistant Vice President, and the signature of the Secretary or any Assistant Secretary and the Company Seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing Attorneys-in-Fact for purposes only of executing and attesting any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the company as the original signature of such officer and the original seal of the company, to be valid and binding upon the company with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, the COMMERCIAL UNION INSURANCE COMPANY, has caused these presents to be signed by its Assistant Vice-President and its corporate seal to be hereto affixed, by its Secretary this 31st day of December 19 79

4003.5

Raymond M. Defossez Secretary

COMMONWEALTH OF MASSACHUSETTS COUNTY OF SUFFOLK SS.

On this 31st day of December 19 79, before me personally came Robert I. Spencer, Assistant Vice-President, and Raymond M. Defossez, Secretary of the COMMERCIAL UNION INSURANCE COMPANY to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they acknowledged the execution of the same, and being by me duly sworn, severally and each for himself deposeth and sayeth, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the corporate seal of said Company and that the said corporate seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Company.

Sandra Wischow — Notary Public (My Commission expires August 2, 1985)

COMMERCIAL UNION INSURANCE COMPANY

Robert J. Spe

CERTIFICATE

I, the undersigned, Assistant Secretary of the COMMERCIAL UNION INSURANCE COMPANY, a Massachusetts Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked; and furthermore, that the Resolutions of the Board of Directors set forth in the power of attorney are now in force.

Signed and sealed at the City of Boston. Dated this

21.7

March

day of

18 SI

(Assistant Vice-President

Andrejs J. Grots - Assistant Secretary



BRUCE KING

GOVERNOR

LARRY KEHOE

SECRETARY

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

May 25, 1981

POST DEFICE BOX 2088 -STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Bishop & Blackford Insurance, Ltd. P. O. Box 2277 Las Cruces, New Mexico 88001

Attention: Gene Bishop

Re: \$10,000 Multiple-Well Low-Temperature Geothermal Bond

Harry N. Bailey, Principal Commercial Union Insurance

Company, Surety Bond No. CE-71353-20

Gentlemen:

The Oil Conservation Division hereby approves the above-referenced Geothermal bond effective May 15, 1981.

Sincerely,

JOE D. RAMEY, Director

dr/

cc: Oil Conservation Division Carl Ulvog - Santa Fe

> Mr. Harry N. Bailey Rt. 1, Box 1288

Las Cruces, New Mexico 88001

DAN NUTTER Harry Bailey has Cruces & plans to driel well will near fadium Springs & Bailey family swees the & property geross from the ald halet and wants to evaluate it as grothermal prospect. o. Rad St. Engr Permit & Well would be Bus where & from 40.50 to 400 deep depending on what they find Willis Mc Kaughlin is hand of Carrying forms to us, also

Route / 1308/288 ECELVID Las Curear 8800/ 4-23-81 Oil Conservation Commission BOX 2088 Scenta Fr 87501 ath: Carl Ulsog Dean Mr. albog: Dan Natter advised me that the bands (enclosed forms) should be sent to your attention. They had not arrived when we mailed the 6 101 and 6 102 forms earlier. which showed the two wells es no 1 and no 2 - 12 leave note that they showed have been marked as No. 9 and noto Will apprecia to it. There are our fait 2 temp, observation wells but I do own 8 old wells an various M.M. proporties

thank You to your Gogoration

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	. All dista	nces must be from	m the outer boundar	ies of the Section.		150, 11, 50
Operator H. N. Ba	ailey	Į.	ease .	H.N. Baile	y	Well No.
Jnit Letter Section :	10 Township	215	Range 1 W	County	Dona A	Ana
Actual Footage Location of W	M 1 L		2026 25		East	tine Sec. 10
· · · · · · · · · · · · · · · · ·	nom the North	line an		feet from the		icated Acreage:
Ground Level Elev. Pro	ducing Formation	P	ool		Dea	1 Acres
1. Outline the acrea			solored panell or	hachura marks A	n the plat helo	
2. If more than one and royalty).3. If more than one	e lease is dedicated (o the well, ou	tline each and ide	ntify the owners	ship thereof (b	oth as to working interes
☐ Yes ☐ No			nsolidation			
If answer is "no," li necessary.)	st the owners and to	ract description	s which have actu	ially been conso	lidated. (Use r	everse side of this form i
	be assigned to th herwise) or until a ne					munitization, unitization by the Commission.
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		77.	, f	11	C	ERTIFICATION
	WELL #9	100 J. 10		3 TO	contained her the best of m	rtify that the information ein is true and complete to y knowledge and belief.
		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	767 18 V98	0	Position	Bailey
		OIL	CONSERVATION SANTA FE	المستأن	Owner Company H. N.	Bailey
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	T 215 Rim	REGISTERES	PROFESSIONAL No. 1308 20 20 20 20 20 20 20 20 20 20 20 20 20	Weise W	shown on this notes of actu under my sup is true and o knowledge an	em Q. Kill
	}	1/4			Registered Profes and/or Land Surv	sional Engineer veyor

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DISTRIBUTION	P. O. Box 2088, Santa Fe 87501	'- !!!</td
File 1 V	M APR 27 19	82
N. M. B. M.	UNDRY NOTICES AND REPORTS	
U. S. G. S	ON OIL CONSERVATION	TS: Madicale Type of Lease DIVISION Fee
Operator () G	EOTHERMAL RESOURCES WELLS SANTA FE	5.a State Lease No.
Land Office		Private
Do:Not Use This Form for Proposels to Drill or to Deeps	en or Plug Back to a Different Reservoir. Use "Application	
For Permit —" (Form G-101) for Such Proposals.)	an of Fing Back to a Different Reservoir. Ose Application	
1. Type of well Geothermal Producer	emp. Observation	7. Unit Agreement Name ·
	njection/Disposal	8. Farm or Lease Name
2. Name of Operator	_	11 N R
H. N. Bailey & Hssociate	S	9. Well No.
Parte 1 Box 1788 las	Cruces, New Mexico 88001	۱ ۹ ′
1 4. Location of Well 2031	フ ムフィ	10. Field and Pool, or Wildcat
Unit Letter 3 7006 Feet F	rom The EasT Line and 800 Feet From	Wildcat
11 1	210	
The North Line, Section 10	TownshipZISRangeIWNMPM.	
77777777777777777777777777777777777777	evation (Show whether DF, RT, GR, etc.)	12. County
	71 3000 6.1	0 0
16. Check Appropriate I	Box To Indicate Nature of Notice, Report or Other Da	to to
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PERFORM REMEDIAL WORK PLUG AND A		NT REPORT OF: ALTERING CASING
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING CHANGE PLA		57
	. OTHER	, L
OTHER		
17. Describe Proposed or completed Operations (Clear)	y state all pertinent details, and give pertinenet dates, incl	uding estimated date of starting any
proposed work) SEE RULE 203.		
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Well # 4 was comp	leted as a production we	ill as hollows:
1. Drilling comme	- 1 00 11-22 02 1	1/1/1/220
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3. Drilled 7% in	ih hole to 30 feet and sei	t an leat al
c-9/ 1-1	L. COLET AND JOLET WAS IN	, 50 . 22 . 51
5 % inch produ	action easing.	0 1
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+ 5 6		, 1
to surface; ?	to sacks of cement were	required.
to surface; ?	duction easing to format to sacks of cement were	required.
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5. Well was tem	to sacks of cement were porarily capped.	required.
J. Well was tem	porarily capped.	required.
18. I hereby certify that the information above is true an	nd complete to the best of my knowledge and belief.	required.
18. I hereby certify that the information above is true an	nd complete to the best of my knowledge and belief.	
18. I hereby certify that the information above is true an	porarily capped.	required.
18. I hereby certify that the information above is true as signed Lichard L. Lohse	nd complete to the best of my knowledge and belief. TITLE Consultant	DATE 4-25-82
18. I hereby certify that the information above is true an	nd complete to the best of my knowledge and belief. TITLE	DATE 4-25-82

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

Telephone	Personal	Time 10 <i>BM</i>	7	Date 8/	8/85	
Originating Party				Other	<u>Parties</u>	
Jack 1	phitlies - END	rgy INSTS	Da	Wil Ros	jer-Nm	XS.
NMSU	Las Cruces	126-1747			<u> </u>	
Subject Bo	uley Geothe	unal Pri	rigal	- Radu	in Spri	ingl
	215 ROIW		0		· /	<i>y</i>
)					
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STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

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

March 2, 1984

Mr. Harry N. Bailey 25256 Terreno Drive Mission Viejo, CA 92675

Re: Radium Springs Geothermal
Bailey Wells #9 and #15
T-21S, R-1-W, Don Ana
County, New Mexico

Dear Mr. Bailey:

Your letter to Mr. Pearce of this agency, dated February 23, 1984, has been referred to me for comment and reply. For simplicity, I have attached copies of material from files of the subject wells, which will illustrate and document their official status.

You will note that, pending further filings, the subject wells are temporarily abandoned in non-producible condition, permitted to remain thus until January 19, 1985. If extensions to those permits should be desired, requests for same should be sent to the Director of the Oil Conservation Division. (See Rule G-303-B) No applications have been received for permit to drill disposal wells or for permit to discharge geothermal effluents. Obviously, one or both of these would be required before production could legally begin.

I trust this is the information you requested.

Yours truly,

and Illing

CARL ULVOG

Geothermal Supervisor

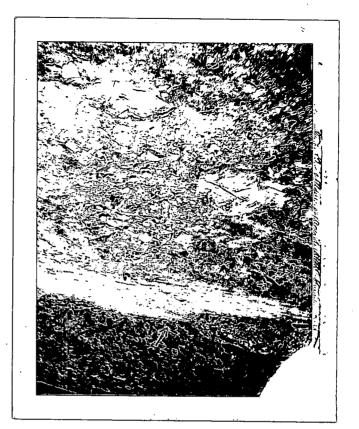
CU/dp

cc: R. L. Lohse

W. P. Pearce

Well Files Nos. 9 & 15





Memo

From

ROY JOHNSON

Geologist

Radium Springs Farms

Box 20

Radium Springs N.M.

88054

524-1791

Atn: Bruce Fitzgerald

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

Form G-1	03
Adopted	10-1-74
Revised	10-1-78

ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501		Adopted 10-1-74 Revised 10-1-78	
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DISTRIBUTION]		
File .	SUNDRY NOTICES	AND REPORTS	
N. M. B. M.	- ON		5. Indicate Type of Lease
U, S. G. S	GEOTHERMAL RES		State NA Fee
Operator		3.13.13.11.12.13	5.a State Lease No.
Land Office			PRIVATE
Do Not Use This Form for Proposals to For Permit —" (Form G-101) for Such	o Drill or to Deepen or Plug Back to a D Proposals.)	Different Reservoir. Use "Application	
1. Type of well Geothermal Prod	lucer Temp. Observation		7. Unit Agreement Name
Low-Temp Therr	nal Injection/Disposal		NIA
2. Name of Operator ALEX R. W	ASSON, INC.		8. Farm or Lease Name BALLEY
3. Address of Operator DRAWLE F	44 mad 1 KZ . 66	0052	9. Well No.
4. Location of Well Unit Letter B ; SS	2Feet From The LORTH	Line and Z,48Z Feet From	10. Field and Pool, or Wildcat
The WEST Line, Section	Township ZIS		
	15. Elevation (Show whether		12. County
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16. Chec	k Appropriate Box To Indicate Na	ture of Notice, Report or Other Da	ta
NOTICE OF INTE	ENTION TO:	SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	

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.

OF OPERATOR FROM HAPRY N. BALEY TO ALEX R. IMESON, INC.

OTHER

18. I hereby certify that the information above is true and considered the second seco	mplete to the best of my knowledge and belief.	PATE_Q	25 8P
CONDITIONS OF APPROVAL OF ANY:	DISTRICT SUPERVISOR		22/86

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form G-104 Adopted 10-1-74 Revised 10-1-78

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO PRODUCE **GEOTHERMAL RESOURCES**

OWNER OR OPERATOR Name ALEX R. MASSON INC
Address DRAWER F. LINWOOD KANSAS 66052
TYPE OF WELL Geothermal Producer [] Low-Temperature Thermal [] Injection/Disposal [X]
REASON FOR FILING New Well [] Recompletion [] Change in Ownership [] Designation of Purchaser [] Other (Please Explain) [] PER MR Roy Johnson Letter Dated 11-18-86
DESCRIPTION OF WELL Lease Well Name of Name H:N Boiley No. 15 Reservoir Redian SPRINGS
Kind of Lease (Fee, Fed. or State)Number
LOCATION Unit Letter B; NE = feet from the NE / y line and NW = feet from the line of Section 10 Township 215 Range RIW County Poins RWA
TYPE OF PRODUCT Dry Steam and Low Temp. Steam
DESIGNATION OF PURCHASER OF PRODUCT Name of Purchaser DROWER F LINGO NAMES 66052 Product Will Be Used For GREEN HOUSE HOOTING
CERTIFICATE OF COMPLIANCE

I hereby certify that all rules and regulations concerning geothermal resources wells in the State of New Mexico, as promulgated by the Oil Conservation Division of New Mexico, have been complied with, with respect to the subject well; and that the information given above is true and complete to the best of my knowledge and belief.

Signed Brun A, telagrald	Position Operation Mg A. Date 2/22/87
Approved By Lynnin	Position SUPERVIDATE 4/22/8
Marie	

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Form G-112 Adopted 10-1-74 Revised 10-1-78

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

Operator ALEX . R.	MSSOIL,	INC.	DRAWER 3	F LIN WOOD	ks. 66052
BALLEY		Well No.	PADIUM .	springs	DONA ANA
Location Unit Letter	; Well is Lo	cated 522 Fe	et From The NORTH	Line And 2482	Feet From The W65
Line, Section		71 C	inge <u>IW</u>	_ NMPM.	
		CASING	AND TUBING DATA		
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Conductor Pipe			,	,	
Surface Casing	8,11	25-301	- 12	SURT.	CIRCULATION
Long String	NA			: .	
Tubing	NA		Name, Model and Depti	n of Tubing Packer	
Name of Proposed Injection Form PALM PARK FORM	wfto N		Top of Formation	हिं	ttom of Formation 165 FEET
Is Injection Through Tubing, Cas	ing, or Annulus?	Perforations OPEN	or Open Hole? Propose	ed Interval(s) of Injection A - 165	
Is This a New Well Drilled For Injection?	If Answer	is No, For What Purp	ose was Well Originally E	Orilled? Has Well Ever Ber Other Than the P	en Perforated in Any Zone roposed Injection Zone?
List All Such Perforated Interval	s and Sacks of Ce	ment used to Seal Of	f or Squeeze Each		•
Depth of Bottom of Deepest Fre in This Area	sh Water Zone		r Purpose of Pressure Ma (See Rules 501 and 502)		SPOSAL
Anticipated Daily Minimu Injection Volume		Open or System		jection to be by Gravity of GRAVITY	or Approx Pressure (psi)
Answer Yes or No Whether the Foto such a Degree as to be Unfit for Other General Use—		k, Irrigation, MO	to be Injected Natural Natural		re Water Analyses Attached?
Name and Address of Surface Owner (or Lessee, if State or Federal Land) HEX R. MASSON, INC. DRAWER F LINWOOD, KS. 66052					
List Names and Addresses of all C	perators Within (One-Half (½) Mile of T			
HUUT EN ERBY	TASSESSO	ToN			
THOMAS F. RYAM	J				
HARRY N. BAILE	4				
WM. H. DALY	/				
Have Copies of this Application Bent to Each Operator Within One Half Mile of this Well?		No D			
Are the Following Items Attached this Application (see Rule 503)	to Plat of Are	No 🗆	Electrical Log	No Di	agrammatic Sketch of Well Yes No
1 hereby				best of my knowledge ar	
Bur A FR	allange	Deal	gnator A	gout_	92286
(Signatura)	- 1		A (Title)	L	• (Date)

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Division will hold the application for a period of 20 days from the date of receipt by the Division's Santa Fe office, If at the end of the 20-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests, SEE RULE 503.

BLM Leases - RADIUM SPRINGS HREA B FRESH WATER WELLS B FRESH WATER WELLS

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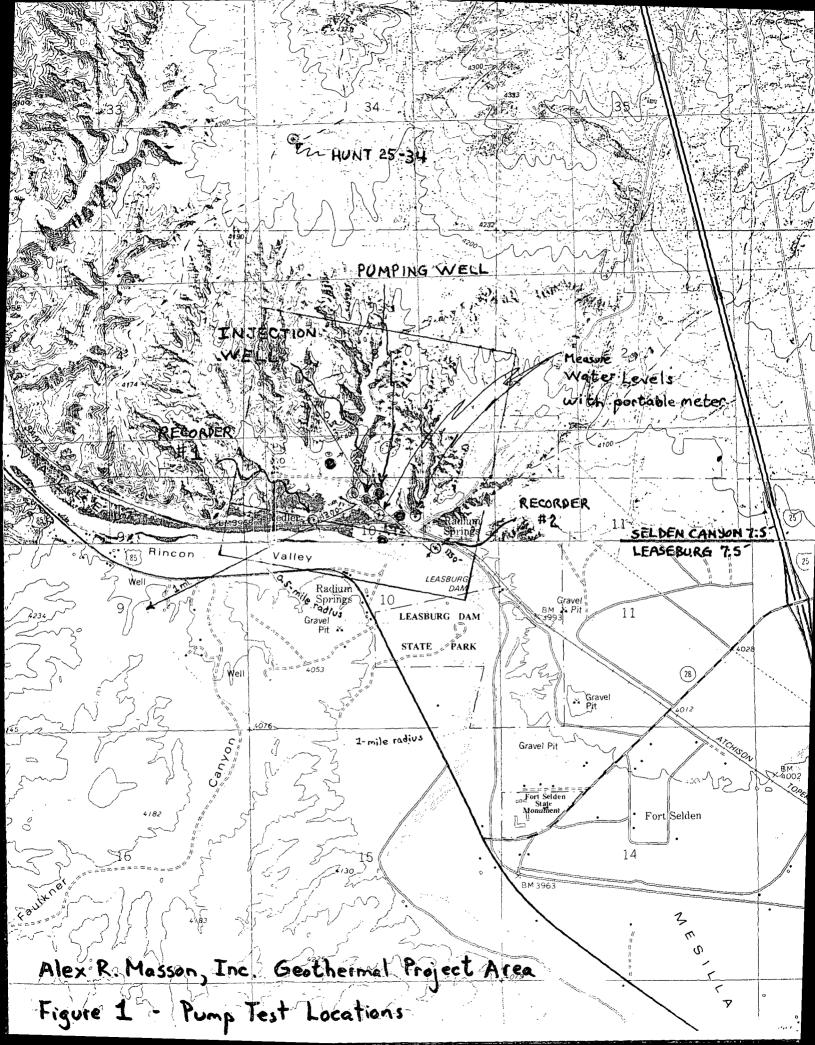
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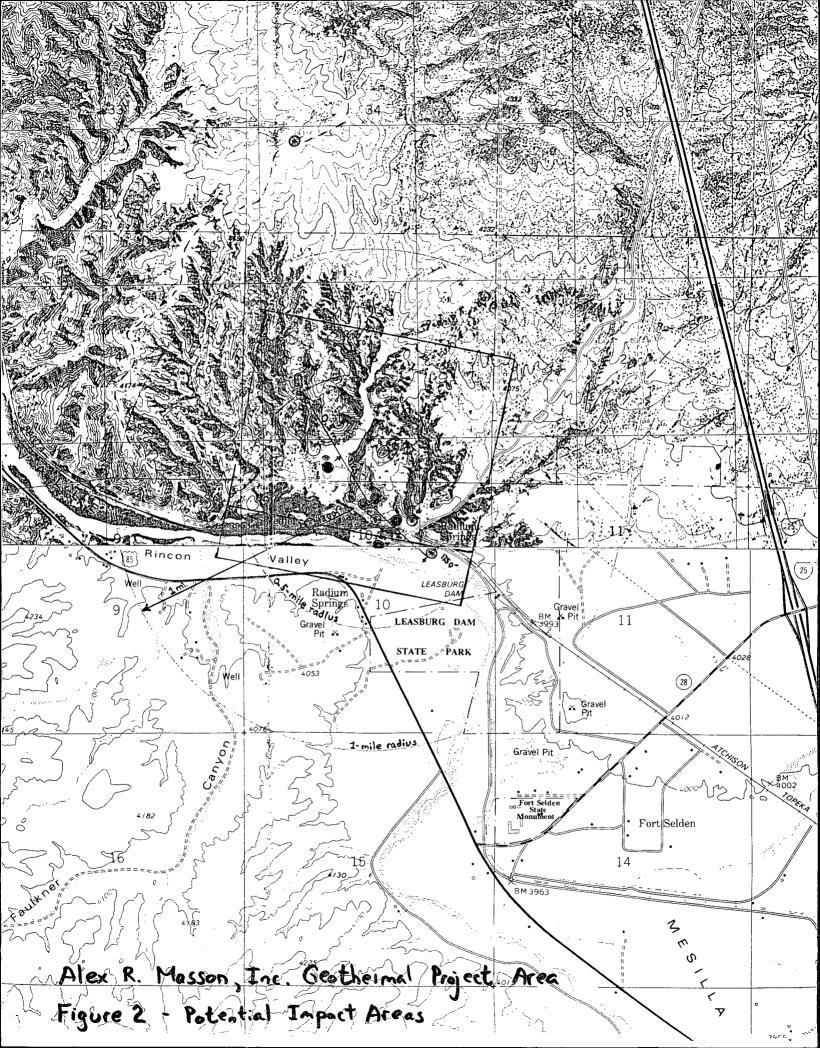
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KADIUM SPRINGS STALLOW BATH HOUSE WELL

CLO RADIUM SPRINGS STALLOW BATH HOUSE WELL





OIL CONSERVATION DIVISION STATE OF NEW MEXICO Form G-103 P. Q. BQX 2088 Adopted 10-1-74 ENERGY AND MINERALS DEPARTMENT Revised 10-1-78 SANTA FE, NEW MEXICO 87501 NO, OF COPIES RECEIVED DISTRIBUTION File SUNDRY NOTICES AND REPORTS N. M. B. M. 5. Indicate Type of Lease ON . State N/A Fee U. S. G. S GEOTHERMAL RESOURCES WELLS A State Lease No. Operator 5.a State Lease No. Land Office Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. For Permit —" (Form G-101) for Such Proposals.) 7. Unit Agreement Name 1. Type of well Geothermal Producer Temp. Observation NA Low-Temp Thermal Injection/Disposal 2. Name of Operator Farm or Lease, Name TLEX Z. MASSON, INC. 9. Well No. 3. Address of Operator 44 MOOD, KS 66 052 4. Location of Well 10. Field and Pool, or Wildcat Feet From The Line and Z,482 Feet From MICDAI Unit Letter 15. Elevation (Show whether DF, RT, GR, etc.) 12. County 3,980 FT. DONA ANA Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: 100 PM SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON COMMENCE DRILLING OPNS. 40 L PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB

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.

OF OPERATOR

CHANGE OF OPERATOR FROM HAPRY N. BAKEY TO ALEX R. MESON, INC

OTHER

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

SIGNED Bruce A Folgon TITLE ACENT DATE 9/22/86

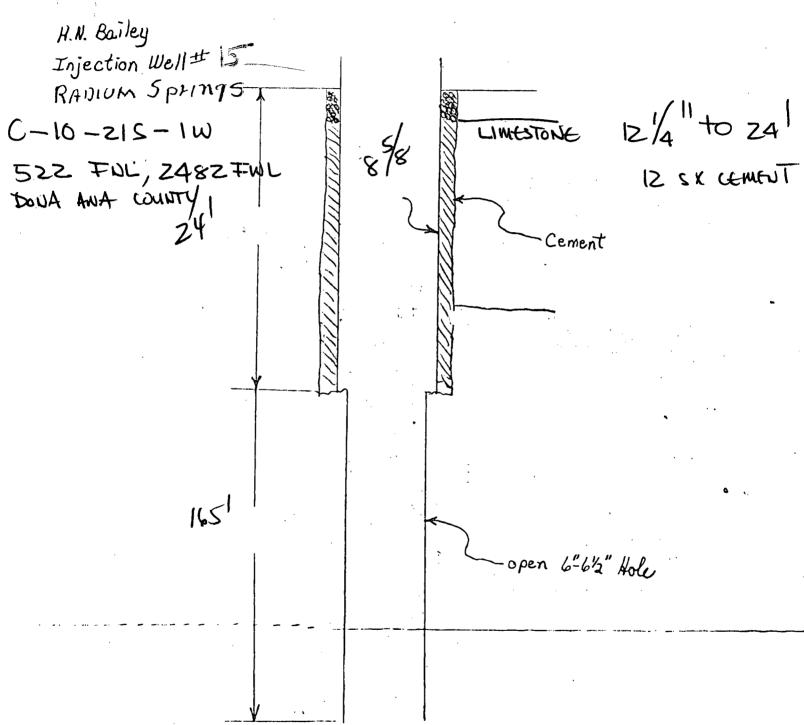
APPROVED BY BASEMMON TITLE DISTRICT SUPERVISOR DATE 9/22/86

CONDITIONS OF APPROVAL IF ANY:

BAILEY WATER SAMPLES

	GEOTHERMAL WELL (MG/L) #15	FRESH WATER WELL (MG/L)
рН	7.15	
Na	1,082.9 ,	
K	168.5	3.5
Ca	139.4	83.8
Mg	12.8	12.8
C1	1,714.0	71.1
S04	244.0	
CO3	0	
нсоз	420.0	
Si02	70.3	23.6
В	.87	0.13
F	5.40	
Fe	<.1	<.05
Mn	.25	0.30
Li	.94	
A1		
TDS	3,680	·





***WATER WELLS**

*TEST HOLES

*PUMPS

Harry N. Bailey 25256 Terreno Dr., Mission Viejo; Ca. 92675 (714) 837-9041 835-1911 (213) 924-1150

June 6, 1986

Alexander Masson, Inc.

Attn; Bruce Fitzgerald

Rt. 1, Box 703

Lamesa N.M. 88044

Dear Bruce:

This will confirm our verbal approval to use Bailey production well No. 15 to inject into during your forthcoming 10 day pumpdown test.

Yours truly

Harry N. Eatley

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION



MEMORANDUM OF MEETING OR CONVERSATION

· · · · · · · · · · · · · · · · · · ·						
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For Permit —" (Form G-101	ropo:) for	sais to Such F	Proposals.)		
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2. Name of Operator				8. Farm or Leas	e Name
Н.	. N.	Bai	ley & Associates	H. N. B	ailey
3. Address of Operator				9. Well No.	
41	0 T	horr	pe Rd., Las Cruces, NM 88005	15	
4. Location of Well				10. Field and Po	
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The West Li	ne, Se	ection	10		
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			TEMPORARY ABANDONMENT STATES		
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18. I hereby certify that the	info	rmatio	n above is true and complete to the best of my knowledge and belief.		
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SIGNED Chan	d	L.	TITLE Consultant	DATE1_	16-84
α	1	27	lling DISTRICT SUPERVISOR	_	. 611
APPROVED BY	w		TITLE DISTRICT SUPERVISOR	DATE /-	19-84

NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSERV	VATION COMMISSION	Adopted 10/1/14
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Land Office]		Private
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Do Not Use This Form for Proposals to For Permit —" (Form G-101) for Such	Drill or to Deepen or Plug Back to a Diff	ferent Reservoir. Use "Application	
1. Type of well Geothermal Prod	· · · · · · · · · · · · · · · · · · ·	1	7. Unit Agreement Name
1		_	
2. Name of Operator	nal Injection/Disposal	<u> </u>	N/A 8. Farm or Lease Name
· ·	1 A consisted		H.N. Bailey
	ley and Associates		
3. Address of Operator	Day 1200 Los Crusos NM 6	22001	9. Well No.
	Box 1288, Las Cruces, NM 8	86001	10. Field and Pool, or Wildcat
4. Location of Well	maa Nooth	2 402	-
Unit Letter B,	522 Feet From The North	Line and 4,402 Feet Fro	m Wildcat
Wast	10 215	1 W	
The West Line, Section	10 Township 21S	RangeNMf	Рм. (
	15. Elevation (Show whether L	OF, RT, GR, etc.)	12. County
	GL 3,980 ft.		Dona Ana
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17. Describe Proposed or completed	Operations (Clearly state all pertinent de	tails, and give pertinenet dates, i	ncluding estimated date of starting any
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		-	OIL CONSERVATION DIVISION
			SANTA FE
18. I hereby certify that the information	of above is true in a complete to the best of	of my knowledge and belief.	
6/-1/ 1/4			
SIGNED KULLAND	TITLE GO	eothermal Consultant	DATE 1-26-83
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1. Type of well Geothermal Produc			7. Unit Agreeme	nt Name ··
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2. Name of Operator	in Control injection / Disposar		8. Farm or Lease	Name .
1	Bailey and Associates		H.N. Bai	lev
3. Address of Operator	Juliey und Hossellarez		9. Well No.	ic y
	1, Box 1288, Las Cruces,	NM 88001	15	•
4. Location of Well	1, Box 1200, Eas eraces,		10. Field and Po	ol, or Wildcat
	522 North	Feet From	Wildcat	51, 51
2494 (201) 3,22 (2012)	rest From the	Free and F7555 Feet From	77777777	
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17. Describe Proposed or completed Op	perations (Clearly state all pertinent	details, and give pertinenet dates, incl	uding estimated da	te of starting any
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				•
Well #15 was s	pudded at 3:00 p.m. on 1-	12-83 and was drilled to a	depth of	1
165 ft. Siliceo	us limestone was encounte	ered at 3 ft. A $12\frac{1}{4}$ inch hol	le was drilled	i
to 26 ft. and 8-	·5/8-inch casing was set to	o 24 ft. The casing was ce	mented to	
		6-1/8 inch hole was drilled		•
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18. I hereby servify that the information	hibove is trule and complete to the bes	et of my knowledge and belief.		
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SIGNED A Whard L.	- Lotal TITLE (Geothermal Consultant	DATEl-	26–83
Carl W	lung DIS	STRICT SUPERVISOR		28/83

Form G-101	
Adopted 10/	1 /

		•	NATION PRINCIPAL STATES	1444	าก	Adopted 10/1/7
NO. OF COPIES RECEIVED	NEW	MEXICO OIL CONSER	VATION DOMNISSION	7	II II	
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File √			1 Mark 9	0 1982 <u> </u>		
N.M.B.M.				. 4	The same of the sa	Type of Lease
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Operator	OR PLU	G BACKGEOTHER	MAL RESOURCES WEL	A PE	o.a State Lea	ase INO.
Land Office				_	Pr <u>i</u> v	ate
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1a. Type of Work Drill	Ž [Deepen 🔲	Plug Back			ement Name
	<u></u>	_			N/	<u> </u>
o. Type o. wen	mal Producer 🏻 🌅		emp Observation		8. Farm or L	Lease Name
Low-Ter	mp Thermal 🔲	Inj	ection/Disposal \square			. Bailey
2. Name of Operator					9. Well No.	
<u>H</u>	.N. Bailey and A	ssociates			15	
3. Address of Operator	oute 1, Box 1288	, Las Cruces, N	М 88001			d Pool, or Wildcat dcat
4. Location of Well UNIT LET	TER BC LOCAT	ED 522 FEET F	ROM THE North	_LINE		
AND 2482 FEET FROM	THE West LINE OF	SEC. 10 TWP. 21	S _{RGE} 1W	NMPM		
					12. County	
					Dona A	na /////////
			19. Proposed Depth 19	A. Formation	Lime-	20. Rotary or C.T.
			500 ft. S	Siliceous	stone	Rotary
21. Elevations (Show whether DF GL 3980 ft.		& Status Plug. Bond 7135320	21B. Drilling Contractor Larjon		22. Approx Dece	x. Date Work will start ember 1982
	P	ROPOSED CASING AN	D CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
12-1/4 inch	8-5/8 inch	0.188 inch	at least 10 ft.	Pressu		circulated
		wall	into solid bed-	cemen	ted	to surface
			rock (min.40ft.)	to surfa	ace	

A flange and B.O.P. will be welded to the surface casing. The mud return line below the B.O.P. will be fitted with a shut-off valve. The B.O.P. will be constructed using rubber packers which can be tightened down around the drill pipe to seal off the thermal fluids. If the need arises, weighted mud will be used to shut-in the fluids. A 12 to 24 hour pump test will be performed on the well. The production zone will be completed as an 8 inch uncased bore hole.

OIL CONSERVATION COMMISSION TO BE NOTIFIED WITHIN 24 HOURS OF BEGINNING OPERATIONS APPROVAL VALID FOR 90 DAYS PERMIT EXPIRES 2/28/83 UNLESS DRILLING UNDERWAY.	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new zone. Give blowout preventer program, if any.	productive
I hereby certify that the information above is true and complete to the best of my knowledge and belief. Signed Charo Long Title Geothermal Consultant Date 11/24/82	
(This space for State Use)	
APPROVED BY Carl Elling TITLE DISTRICT SUPERVISOR DATE 12/1/8	2
CONDITIONS OF APPROVAL, IF ANY:	

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	. All distances	must be from	the outer boundaries	of the Section.	
Operator 6	H.N. Bailey	Lea	se H. N	J. Bailey	Well No.
Unit Letter Section	n Township	11	Range	County	
C 新十	10	21 S	1 W	Dona Ana	
Actual Footage Location of					
	t from the North	line and		feet from the West	line Sec. 10
Ground Level Elev.,	Producing Formation	Poo	i .		Dedicated Acreage:
					Acres
1. Outline the acr	reage dedicated to the subject	ct well by co	plored pencil or hac	hure marks on the plat	below.
and royalty). 3. If more than of	one lease of different owne	rsip is dedic			of (both as to working interess
communitizatio	on, unitization, force-pooling	g, etc!			
☐ Yes ☐ 1	No If answer is "yes," t	ype of cons	olidation		
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necessary.)		acscriptions	which have actually	y been consonduced. (Ose reverse gross on this form .
	the contract of the contract o	ell until all	interests have he	en consolidated (by	communitization, unitization
	otherwise) or until a non-st				
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·			1	the best	of my knowledge and belief.
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S	1	misi	C191177478	Name	Comen's
<u></u>				H.	N. Bailey
y l		- IIII 7	OF \$ 8 1982	Position	
)			IUI +	Ov Ov	mer
7		OIL CO	NSCH TIME DIV	O Company	
		OIL "	SANTA PE	\ <u> </u>	N. Bailey
			i	Date	7 2 10 F2
	SEC 10)	1	1,00	1 6,1906
	T215 R16	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		134	
	NAT.P.	7.	1	/ hereby	certify that the well location
	i		1 t	1 1	n this plat was plotted from field
			OTESCIO.	· •	actual surveys made by me or
	1 1	/-	660,533,000	under m	y supervision, and that the same
		/3	AT SUN SUN	is true	and correct to the best of my
	1	(亞)	6/No. 72/2	3 knowled	ge and belief.
V	 	5	No. 10	L \	
6	, , , , , , , , , , , , , , , , , , ,	REGISTERES	10/5	6 11.0	liam A. Killey
			Lew Mexico	Date Survey	
	ı	/	Mia A. KIN	11	25, 1982
	ı			 	Professional Engineer
	1		1	and/or Land	
				P.E. a	L.S.
				Certificate 1	No.
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Roy, PLEASE FIND ENCLOSED LETTER HARRY BHILEY, GWING PERMISSION FOR PUMP THANK Blue Folzquell

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NO. OF COLLEGE VED	٠٠٠٠ ا	
DISTRIBUTION	P. O. Box 2088, Santa Fe 87501	8 1982
File /	141	
	JNDRY NOTICES AND REPORTS ON CONSTITUTE	VVA ISi Jindigate SYDNof Lease
J. S. G. S	CIV CA	ANTA STETE Fee S
	EOTHERMAL RESOURCES WELLS	5.a State Lease No.
Land Office		Purity 4-
Do Not Use This Form for Proposals to Drill or to Deeper For Permit —" (Form G-101) for Such Proposals.)	or Plug Back to a Different Reservoir. Use "Application	
1. Type of well Geothermal Producer	emp. Observation	7. Unit Agreement Name
\	ijection/Disposal	N/ <i>P</i>
2. Name of Operator		8. Farm or Lease Name
H. N. Bailey & Hosociate	<u>. </u>	H.N. Bailey
3. Address of Operator	4	9. Well No.
Koute 1 Box 1288, La	s Cruces, New Mexico, 8800) 15
4. Location of Well		10. Fleid and Pool, or Wildcat
Unit Letter 275 Feet Fr	om The Line and Z380_ Feet Froi	m Wildcat
		
TheLine, Section	Township $\frac{ZIS}{Range}$ Range $\frac{IW}{R}$ NMP	PM. (
NAME OF THE PROPERTY OF THE PR	vation (Show whether DF, RT, GR, etc.)	12. County
VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ration (Show whether Dr, R1, GR, etc.)	
VIIIIIIIIII		Vona Hna
16. Check Appropriate Bo	ox To Indicate Nature of Notice, Report or Other	Data
NOTICE OF INTENTION TO:	SUBSEQ	UENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND A	BANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING LA CHANGE PLA	NS 🛛 CASING TEST AND CEMENT J	ов Ц
a	OTHER	Г
OTHER		
17. Describe Proposed or completed Operations (Clearly	state all pertinent details, and give pertinenet dates, in	ncluding estimated date of starting any
proposed work) SEE RULE 203.		
This well will not		
Inis well will not	De a villed	
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18. I hereby certify that the information above is true and	complete to the best of my knowledge and belief.	
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SIGNED richard d- Notice	TITLE Orsultant	DATE 2-27-82

						PIS	द्रीक्षा		Form G-101 Adopted 10/1/
NO. OF COPIES REC	EIVED		NEV	W MEXICO OIL CONS	ERVATION COMMISS	igh J	UN 16	1981	
DISTRIBUTION	v			P. O. Box 2088,	C	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owne		<u>~</u>	ש
File	1				C	IL CON	SERVATI	UN DIVISI	NO
N	1						SANTA	Indicate	Type of Lease
U.S.G.S.	1		APPL	ICATION FOR PER	MIT TO DRILL DE	EPEN	I .	STATE	FEE 🔀
Operator	1			JG BACKGEOTHE	· ·	•		i.a State Le	ase No.
Land Office BLM									
					,				
1a. Type of Work	Drill	K		Deepen 🗆	Plug Back			7. Unit Agre	ement Name
b. Type of Well	Low-Ter	mal Produce np Thermal		1	Temp Observation Injection/Disposal			8. Farm or 1	BAILEY
Name of Operator Address of Operator	NIT.	SAILS	EX	LASCTU TED 275 FEET				9. Well No.	15
Rt.	150	X12	88	LASCRU	ices of	800	/	VIId	Pool, or Wildcat
4. Location of Well	UNIT LET	TER	LOCA	TED 275 FEET	FROM THE	/	LINE		
				SEC. 9 TWP. 1		WN			
								County	Ana
	11111		11111		19. Proposed Depth	1 4	Formation		20. Rotary or C.T.
					500	1/1	nusta	w	ROTARY
21. Elevations (Show	whether DF	, RT, etc.)	21A. Kin	d & Status Plug. Bond	21B. Drilling Contra				c. Date Work will start
•	,	·		PROPOSED CASING A		· ·			
SIZE OF HOL	_E	SIZE OF C	ASING	WEIGHT PER FOO	T SETTING DEP	TH S	ACKS OF	CEMENT	EST. TOP
<u> </u>		4						'	

If this hole does not indicate
satisfactory temperature and flow
it will be filled and about oned-

APPROVAL VALID FOR 90 DAY

PERMIT EXPIRES

PERMIT FOR ORDIN IN THE PROPERTY OF PERMIT EXPIRES UNDERWAY

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

one. Give blowout preventer program, if any.		
hereis certify that the information above is true and con	nplete to the best of my knowledge and belief.	

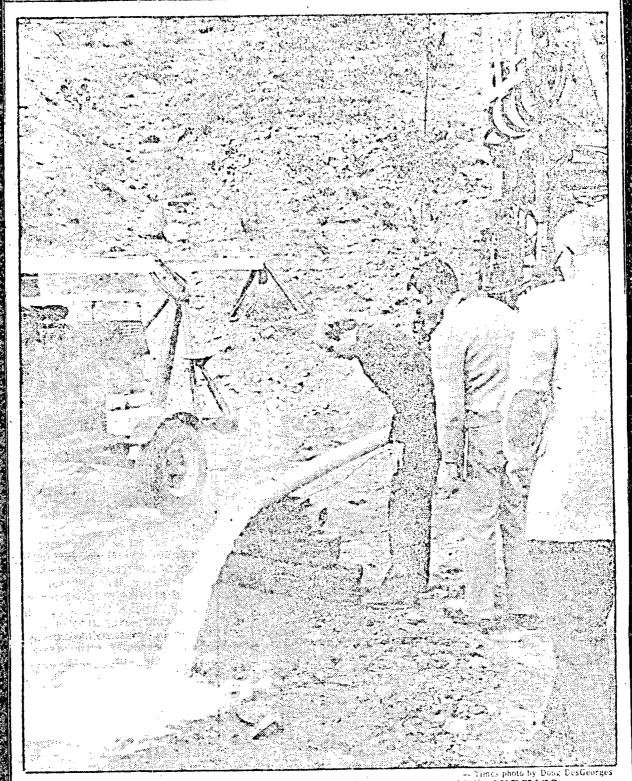
Tin OUMER Offenctor Date 5-5-8/

VED. BY Carl Ulvog

SENIOR PETROLEUM GEOLOGISI

P. O. BOX 2088 SANTA FE 87501 GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DED All distances must be from the outer boundaries of the Section. County Actual Footage Location of feet from the feet from the Dedicated Acreage: Producing Formation Acres 1. Outline the agreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, ordline each and identify the ownership thereof (both as to working in and royalty).

Carries cell Mineral right. 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? ☐ 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 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information 2380'contained herein is true and complete to the best of my knowledge and belief. 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. 230 BEU 90 1320 1650 1980 2310 2640 2000 1500 1000



SYMPOSIUM PARTICIPANTS CHECK WELL AT RADIUM SPRINGS
... Participants toured geothermal sources in the northern Dona Ana County area

Radium Springs claims geothermal energy source

By Doug DesGeorges Times staff writer

LAS CRUCES — Those who thought Dona Ana County's usable geothermal reserves lie only under Las Cruces' east mesa could have learned differently Tuesday, as participants at a geothermal energy symposium toured the reserves around Radium Springs.

Participants had heard Roger Bowers, a geothermal geologist with the Hunt Energy Corp., say Monday his company had found water as hot as 230 degrees Fahrenheit in the Radium Springs area. Bowers said the water was found at a depth of about 9,000 feet.

But it isn't necessary to drill that deep to find hot water, Harold Bailey said Tuesday.

Bailey's company claims to have found 158degree water only 26 feet below the surface. Bailey said his well can deliver 325 gallons of water a minute.

Bailey's company, H.N. Bailey & Associates, has about 100 acres both near the hot water and flat enough to be developed. Symposium sponsors hope to entice greenhouse operators to move to the Las Cruces area to take advantage

of the cheaper geothermal energy.

Bailey said his land is ideal for greenhouses because it has hot water reserves on one side and fresh water on the other.

and fresh water on the other.

Bowers said Monday that hitting hot water at shallow depths is made possible by natural barriers that force the heated water toward the surface. Bowers said the water is heated by the Rio Grande Rift, a crack in the Earth in which water is heated by the Earth's core.

A flyer put out by Bailey's company said the

A flyer put out by Bailey's company said the 100 acres is for sale and will be prepared to order. The brochure also says the water is as close as 100 feet to a developable site.

Bowers said his 2,000 foot well can deliver water at 217 degrees Fahrenheit at the surface.

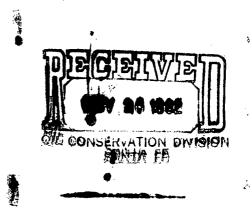
The symposium, sponsored by the New Mexico Energy Institute, ended Tuesday, Larry Icerman, the institute's director, said.

The institute wants to assure potential greenhouse operators geothermal energy is not the only advantage held by the Las Cruces area. Speakers presented at the symposium promised to give any industry interepted in the area all the help it needs in movies.

1962 Embassy, Apt. D Las Cruces, New Mexico 88005 November 24, 1982

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

Dear Carl:



Please find enclosed the original and four copies of Form G-101 for one lowtemperature thermal well (Well #15). I have also enclosed one copy of Form G-102 for this well and #9. It is my understanding that you have already received the originals and the required number of copies for the new well #15 as well as the old thermal gradient hole #9, which has since been changed to a low-temperature thermal well. With regards to these forms, the following changes should be made:

- 1. Form 102 for well #9
 - --Unit letter "B" should read Unit letter "C"
 - --Dedicated Acreage should read "40" Acres and not "10" Acres
- 2. Form 102 for well #15
 - --Dedicated Acreage should read "40" Acres and not "10" Acres

Also enclosed is a copy of a "rider" to the low-temperature geothermal well bond for Harry Bailey. It is also my understanding that this "rider" has already been forwarded to your offices and that the bonding issue has been satisfactorily resolved and that no other problems remain that might prohibit you from approving the Form G-101 to drill a low-temperature thermal well (#15) on the H.N. Bailey land at Radium Springs, NM. If this is not the case, please let me know.

Richard L. Lohse

Geothermal Consultant

25256 Terreno Dr., Mission Viejo, Ca. 92675 Harry N. Bailey (714) 837-9041 835-1911 ·(213) 924-1150 40 Oil Conservation Dist Santa Fe, IV. NI. attn: Carl Albog elder 1 Joan Carl! Just got back to N.M. * signed the inclosed on wells 9 and 15 - Sorry to be so long zettenig the Seenegor en the stick - Hope their is O.K. now on well Dick to he will be processing the other paper wors CHAIRMAN - H.N. BAILEY & ASSOCIATES BAY JET INTERNATIONAL

COMPANY SCIENTIFIC ENGINEERING NEW MEXICO RESORT PROPERTIES

Perhaps you could chees their out - but I thought ue had no 15 cepproved by OCD he will work revites Lærjois to get the balance of the paper was mocessed to you and is centherized to represent me in his læison frenction betevea OCD and Layon Dulleng -You as my last moutes trip to Santa Fe -Bost regards Harry

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	All distance	ces must be from the oute	r boundaries of the Section		
Operator 6	H.N. Bailey	Lease	H. N. Bailey	Well No.	5 24
Unit Letter Section	Township	Range	County 1 W	Oona Ana	
Actual Footage Location o 522.27 fe	f Well: et from the North	line and 2482			10
Ground Level Elev.	Producing Formation	Pool	•	Dedicated Acreage:	Acres
	creage dedicated to the sub-			on the plat below.	ing interest
communitizati	ion, unitization, force-poo	ling, etc?	•	erests of all owners been consc	olidated by
necessary.)	" list the owners and trac	-	nave actually been cons	solidated. (Use_reverse side of t	
	otherwise) or until a non	-standard unit, eliminat		been approved by the Commiss	
	SEC TZIS R	10	SIGNATURE OF THE PROPERTY OF T	I hereby certify that the incontained herein is true and certify the best of my knowledge and the least of the best of actual surveys made under my supervision, and that is true and correct to the best knowledge and belief. Date Surveyed Sept 25, 1982 Registered Professional Engineer and for Land Surveyor P.E. & L.S.	Il location from field by me or the same est of my
1 310 neu 90 1	320 1050 1980 2310 2640	2000 1500	1000 500 0	Certificate No	

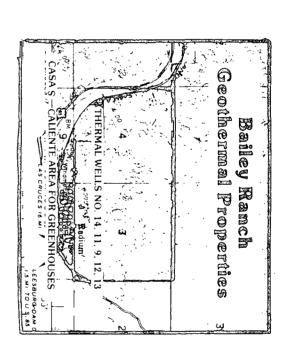
CASAS CALIENTE

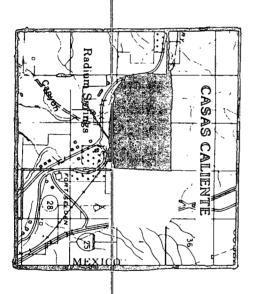
Approximately 100 acre area of raw land has been reserved for green house operations, abutting the proven hot water wells on one side and the abundant fresh water resources on the other.

Sites are offered for the first time and will be prepared to the buyer or lessee's specification.

This property is located 15 miles north of Las Cruces and extends along the Santa Fe's main line and siding, which parallels the Rio Grande river at this location.

We believe this to be the most efficient location in the state for users of low temperature geothermal energy based on an analysis of costs of delivering BTU's to the site. The Bailey thermal wells have temperatures of 150f to 170f at depths of 20 to 120 feet, and as close as 100 yards to the site.





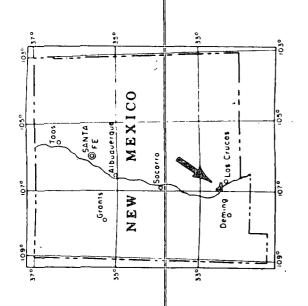
GEOTHERMAL ENERGY

This emerging heat transfer technology is especially well suited for various agricultural applications such as green houses and food drying. The dollar savings become especially significant as water temperatures exceed 150f and as well depths and distance from the water sources to the point of disposal do not impose unacceptable hardware and pumping costs on the system.

Fortunately Dona Ana County is rapidly becomming known not only for its good business climate and labor market but also as a geothermal "hot bed", due largely to the involvement of NMSU in this field. Geothermal Scientists at the University's Energy Institute have been very helpful in making technical information available to-industries investigating this exciting new field.

RADIUM SPRINGS

Originally named by H. H. Bailey, who served as its first postmaster and who sponsored the old Radium Springs health resort, these remarkable hot springs were recognized by the Indians and early settlers for their curative values, both for drinking and bathing. Several hundred acres which include the principal shallow hot waters have remained in the Bailey family for over 60 years. However, the full extent and value of this goethermal resource for commercial application was not known until proven by the exploratory programs recently conducted by H. N. Bailey.



For Additional Information please write to the following:

H. N. Bailey & Associates 410 Thorpe Road Las Cruces, New Mexico 88005

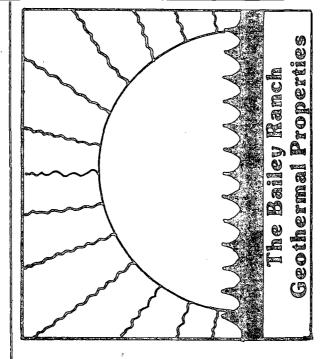
Telephone: (505) 526-3220 TWX 910-983-0560

9

H. N. Bailey & Assocites 1112 East Washington Avenue Santa Ana, CA 92701

Telephone: (714) 835-1911 TWX 910-595-1588 Cable Address: BAILAIR

Kadium Springs Geothermal Industrial Site



Las Cruces, New Mexico

IN THE DISTRICT COURT
THIRD JUDICIAL DISTRICT
DONA ANA COUNTY

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION OF THE ENERGY AND MINERALS DEPARTMENT OF THE STATE OF NEW MEXICO.

Plaintiff.

No.	

vs.

HARRY N. BAILEY,

Defendant.

COMPLAINT FOR CIVIL PENALTY

I

COMES NOW Plaintiff, Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico, and for its first claim for relief in this Complaint for Civil Penalty states:

- 1. That Plaintiff Oil Conservation Division of the Energy and Minerals Department of the State of New Mexico, is a duly organized agency of the State of New Mexico.
- 2. That Defendant Harry N. Bailey is a resident of the State of California.
- 3. That Defendant is presently conducting business in the State of New Mexico. That such business, at least in part,

involves the exploration for and development of geothermal resources within the State of New Mexico.

- 4. That the Geothermal Resources Conservation Act, 71-5-1 et seq. NMSA, 1978, authorizes and requires Plaintiff to regulate the exploration for, development of, and production of geothermal resources within the State of New Mexico. In order to accomplish this required regulation, Plaintiff is authorized to adopt all necessary rules and regulations.
- 5. That Defendant in furtherance of its geothermal exploration and development activities within the State of New Mexico caused a well, known as the H. N. Bailey Well No. 15 to be drilled. This well is located in Section 10, Township 21 South, Range 3 West, NMPM, Dona Ana County, New Mexico.
- 6. That in compliance with the Rules and Regulations of the New Mexico Oil Conservation Division, Defendant caused to be submitted and Plaintiff approved Form G-101, Application for Permit to Drill, Deepen or Plug Back --- Geothermal Resources Well. That this Form G-101 was approved on December 1, 1982, and indicated that the proposed depth of the subject well was 500 feet to be drilled by Rotary Drilling Tool.
- 7. That pursuant to the Rules and Regulations of Plaintiff
 Oil Conservation Division, on or about January 28, 1983,
 Defendant caused to be filed a Form G-103, Sundry Notices and
 Reports on Geothermal Resources Well. This report indicated

that drilling of the subject was had stopped temporarily at 165 feet and was expected to begin again within 45 days.

-8. That pursuant to its authority to adopt all necessary rules and regulations Plaintiff has, after notice and hearing, adopted Rule 203 which states in part:

"Form G-103 shall be filed in DUPLICATE by the operator and approval obtained from the Division prior to: (1 affecting a change of plans from those previously approved on Form G-101 or Form G-103.

- 9. That Plaintiff believes that subsequent to the approval of the temporary abandonment of this well on Form G-103 that Defendant Bailey has caused the subject well to be drilled to a greater depth. Plaintiff has not, as of the date of filing this Complaint, been informed of any further operations at this well subsequent to the approval of temporary abandonment.
- 10. That Defendant has failed to comply with the provisions of Rule 203 in that Defendant has failed to secure approval of the reinstitution of drilling operations at the subject well.
- 11. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 203.
- 12. That Defendant knowingly and willfully violated Rule 203 by failing to file the required report and receive the required approval prior to recommencing drilling operations.
- 13. That Sections 70-2-28 and 70-2-31 NMSA, 1978
 Compilation, as amended, authorized the Division to institute

legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations or Orders.

T14. That this action is brought in Dona Ana County, New Mexico, the site of these violations, as authorized by Section 70-2-31 NMSA, 1978 Compilation.

WHEREFORE, Plaintiff prays:

- 1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 for each day during which drilling operations were conducted without proper approval which amount is to be paid into the State Treasury as provided by Article XII, Section 4 of the Constitution of the State of New Mexico, plus costs.
- 2. For such other and further relief as the Court deems just and proper.

ΙI

Plaintiff for its second claim of relief in this Complaint for Civil Penalty, states:

- 1. That Plaintiff incorporates Paragraphs 1 through 5 of the first claim for relief stated in this Complaint for Civil Penalty in this its second claim for relief and realleges the material contained in those paragraphs as if fully set out.
- 2. Pursuant to its statutory duties, Plaintiff has, after and notice and hearing, adopted Rule 117 of the Rules and

Regulations of the New Mexico Oil Conservation Division. That rule states in part:

"The Division shall be notified of any fire, break, leak, spill, or blowout occurring at any geothermal drilling, producing, transporting, treating, disposal, or utilization facility in the State of New Mexico by the person operating or controlling such facility.

. . .

Notification to the Division of such fire, break, leak, spill, or blowout shall be in accordance with the provisions set forth below:

. . .

"(3) 'Minor Breaks, Spills or Leaks. Notification of breaks, spills, or leaks of wellheads, pipelines, or tanks, or drilling pits, sludge pits, or storage pits or ponds, the result of which 25 barrels or more but less than 50 barrels of liquids containing hydrocarbons or hydrocarbon wastes, salt water, strong caustics or strong acids, or other deleterious substances are lost or in which noxious gases escape, but in which there is no danger to human health or of substantial damage to property shall be 'subsequent notice' described below.

. . .

SUBSEQUENT NOTICE - 'subsequent notification' shall be a complete written report of the incident and shall be submitted to the Santa Fe office of the Division within 10 days after discovery of the incident."

- 3. That on or about March 1, 1983, Defendant caused a valve to be opened at the subject well which caused the intentional release upon the surface of the ground of a substantial quantity of subsurface waters.
- 4. That such discharge was done without any prior approval of any regulatory agency and notification as required by the

Rules and Regulations of the New Mexico Oil Conservation Division relating to geothermal activities was not given.

- 5. That Defendant has failed to comply with the provisions of Rule 117(3) in that Defendant has failed to file the subsequent notification required by that rule.
- 6. That the purpose of Rule 117(3) is to prevent the unregulated, indiscriminate and intentional discharge upon the surface of the ground of harmful substances.
- 7. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 117(3).
- 8. That Defendant knowingly and willfully violated Rule 117(3) by failing to file the required report.
- 9. That Sections 70-2-28 and 70-2-31 NMSA, 1978 Compilation, as amended, authorized the Division to institute legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations or Orders. That this action is brought in Dona Ana County, New Mexico, the site of these violations as authorized by Section 70-2-31 NMSA, 1978 Compilation.

WHEREFORE, Plaintiff prays:

1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 per day for each day during which unauthorized discharges have continued unreported, which amount is to be paid into the State Treasury as provided by Article

XII, Section 4 of the Constitution of the State of New Mexico, plus costs.

2. For such other and further relief as the Court deems just and proper.

III

Plaintiff for its third claim of relief in this Complaint for Civil Penalty, states:

- 1. That Plaintiff incorporates Paragraphs 1 through 5 of the first claim of relief stated in this Complaint for Civil Penalty in this its third claim for relief and realleges the material contained in those paragraphs as if fully set out.
- 2. That pursuant to its authority, Plaintiff has after proper notice and hearing adopted Rule 108(5) of the Geothermal Resources Rules and Regulations of the Oil Conservation Division.
 - 3. That rule states in part:
 - "(5) Casing and Cement Tests. All casing strings shall be tested after cementing and before commencing any other operations on the well. Form G-103 shall be filed for each casing string reporting the grade and weight of pipe used. In the case of combination strings utilizing pipe of varied grades or weights, the footage of each grade and weight used shall be reported. The results of the casing test, including actual pressure held on the pipe and the pressure drop observed, shall also be reported on the Form G-103. See Rule 203C(4).
 - (a) Casing strings in wells drilled with rotary tools shall be pressure-tested. Minimum casing test pressure shall be approximately one-third of the manufacturer's rated internal yield pressure except that

the test pressure shall not be less than 600 pounds per square inch and need not be greater than 1500 pounds per square inch. In cases where combination strings are involved, the above test pressures shall apply to the lowest pressure-rated casing used. Test pressures shall be applied for a period of 30 minutes. If a drop of more than ten percent of the test pressure should occur, the casing or cement job shall be considered defective and corrective measures shall be taken before commencing any further operations on the well.

- (b) Casing strings in wells drilled with cable tools may be tested as outlined in Rule 5(a) above, or by bailing the well dry, in which case the well must remain satisfactorily dry for a period of at least one hour before commencing any further operations on the well.
- 4. That Defendant Harry N. Bailey has caused the subject well to be deepened and Plaintiff believes that Defendant Harry N. Bailey has caused casing to be set in the subject well.
- 5. That Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5) in that Form G-103 has not been filed for each casing string reporting the grade and weight of pipe used.
- 6. That Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5) in that he has failed to test, or has failed to report the test of casing set in the subject well pursuant to the provisions of Rule 108(5)(a). That the purpose of Rule 108(5) is to assure the protection of underground strata from contamination by material from other isolated strata.
- 7. That Defendant Harry N. Bailey had actual or constructive knowledge of Rule 108(5).

- 8. That Defendant knowingly and willfully violated Rule 108(5) by failing to test and/or file as required.
- 9. That Sections 70-2-28 and 70-2-31 NMSA, 1978 Compilation, as amended, authorized the Division to institute legal proceedings to recover penalties of up to \$1,000 per day for violations of its Rules, Regulations and Orders.
- 10. That this action is brought in Dona Ana County, New Mexico, the site of these violations as authorized by Section 70-2-31 NMSA, 1978.

WHEREFORE, Plaintiff prays:

- 1. That it be granted Judgment against Defendant Harry N. Bailey in the amount of \$1,000 for each day during which Defendant Harry N. Bailey has failed to comply with the provisions of Rule 108(5), which amount is to be paid into the State Treasury as provided by Article XII, Section 4 of the Constitution of the State of New Mexico, plus costs.
- 2. For such other and further relief as the Court deems just and proper.

PAUL G. BARDACKE ATTORNEY GENERAL

W. PERRY PEARCE

Assistant Attorney General Oil Conservation Division of the Energy and Minerals Dept. of the State of New Mexico

P. O. Box 2088

Santa Fe, New Mexico 87501

OIL CONSERVATION DIVISION

SANTA FE

Harry N. Bailey

February 23, 1984

State of New Mexico Energy & Minerals Department Oil Conservation Division Post Office Box 2088 State Land Office Building Santa Fe, New Mexico 87501

Attention: W. Perry Pearce,

General Counsel

Dear Mr. Pearce:

In reply to your February 15th letter, I too have had correspondence from Hunt Energy Corp. and I understand their concern. Inclosed is a copy of my reply to Mr. Bowers letter.

While we did put Hunt on notice of our intention to develope an injection well we soon realized that we would need more study and preparation before submitting the form G112 and a better basis for projecting the volume of usage. For instance our program with Mr. Beall of Vashon, Washington, was aborted when he found he could not cope with Dona Ana County use permits proceedures but, could get this years rose crop going immediately at Animas in Hidalgo County. So we are now considering other plans for land usage which in turn may effect the need for geothermal usage. Frankly events so far do not encourage our making more investments in this geothermal resource at this time.

With respect to our two production wells according to Dick Lohse, who handles our paperwork with OCD, we have filed notice of temporary abandonment on them. As far as I know we have nothing pending with OCD nor further requirements for a geothermal bond. I would appreciate it if OCD would verify this with me.

Sincerely,

Harry N. Bailey

HNB/rf

OIL CONSERVATION DIVISION

SANTA FF

February 10, 1984

Hunt Energy Comparation 7800 Thanksgiving Tower Dailas, Texas 75001

Attention: Mr. Roger L. Bowers,

Geothermal Operations

Dear Mr. Bowers:

Thank you for your letter of January 9, 1984, received this week. The guestions and comments listed indecate the quality of expertise which we will have to apply before proceeding further with this development.

Rest assured we have no desire to embark on any course that will unnecessarily cool down a proven hot water production zone or effect the quality of existing producing fresh water resources which are equally valuable to us.

As also mentioned before, we have a community of interest with Hunt in the orderly development and application of these resources at Radium Springs. Good communication as demonstrated by your letter can only assist toward that end.

As for Section 3 mentioned in your last paragraph "...section 5 is federal land.", we do own 1/4 of this section and as you know are considering this as a site for a reinjection well. We, of course, are aware that the BLM has mineral rights to the entire section which they have leased to Hunt.

Sincerely,

HNB/r@

Ca~/ Please get hohse and Bailey (letter) on whether or not we expect any more paperwork. Thouks Plansu keep this in your file.

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

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

March 2, 1984

Mr. Harry N. Bailey 25256 Terreno Drive Mission Viejo, CA 92675

Re: Radium Springs Geothermal
Bailey Wells #9 and #15
T-21S, R-1-W, Don Ana
County, New Mexico

Dear Mr. Bailey:

Your letter to Mr. Pearce of this agency, dated February 23, 1984, has been referred to me for comment and reply. For simplicity, I have attached copies of material from files of the subject wells, which will illustrate and document their official status.

You will note that, pending further filings, the subject wells are temporarily abandoned in non-producible condition, permitted to remain thus until January 19, 1985. If extensions to those permits should be desired, requests for same should be sent to the Director of the Oil Conservation Division. (See Rule G-303-B) No applications have been received for permit to drill disposal wells or for permit to discharge geothermal effluents. Obviously, one or both of these would be required before production could legally begin.

I trust this is the information you requested.

Yours truly,

and Illing

CARL ULVOG

Geothermal Supervisor

CU/dp

cc: R. L. Lohse

W. P. Pearce

Well Files Nos. 9 & 15

OIL CONSERVATION DIVISION

SANTA FE

Harry N. Bailey

February 23, 1984

State of New Mexico Energy & Minerals Department Oil Conservation Division Post Office Box 2088 State Land Office Building Santa Fe, New Mexico 87501

Attention: W. Perry Pearce,

General Counsel

Dear Mr. Pearce:

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Sincerely,

Harry N. Bailey

HNB/rf

SANTA PE

Harry N. Bailey

February 10, 1984

Hunt Energy Corporation 2800 Thanksgiving Tower Dallas, Texas 75201

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Geothermal Operations

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Sincerely,

HNB/rf

1962 Embassy, Apt. D Las Cruces, New Mexico 88005 January 16, 1984

Mr. Carl Ulvog, Senior Geologist Oil Conservation Division Energy and Minerals Department P.O. Box 2088 State Land Office Building Santa Fe, New Mexico 87501



Dear Carl:

I hope you and your family had a happy and safe Holiday Season. As we discussed in our telephone conversation just prior to the holiday break, I am submitting the originals along with the appropriate number of copies of the Form G-103 for the wells labeled H.N. Bailey #9 and #15. The forms are filed as a "subsequent report of" Temporary Abandonment and state the manner in which the wells were capped.

Harry Bailey would like Temporary Abandonment permits for both of these wells for the following reason. Negotiations to utilize the geothermal fluids are currently being held between Mr. Bailey and several potential geothermal users; however, the talks are not advanced enough at this time to allow for the proper design and construction of the production well-heads in such a manner as to obtain the optimum efficiency of the wells.

It is understood that before any work can be performed on the wells, they will have to be taken off the Temporary Abandonment status. Also, before production can occur, the wells will have to be equipped with the proper well-head equipment and the proper discharge permits will have to be obtained. Currently, both wells have steel plates welded to the top of the production casings.

Sincerely,

Richard L. Lohse Geothermal Consultant

cc: Harry Bailey

* When John ealled about T.A. permits, I read him the "riot act." Wells are okay as T.A. to 1-19-85. CU

Carl

Attacked is a copy of the legal native on Pany Bailey's well. Please note:

A from the legal description of the production well (which does not give mater his ± 15) he white, to produce our 600 gpm or a 6-months / year does or to produce our 600 gpm or a 6-months / year does or for you are a stady state. I can't believe the artere were will produce that news.

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NOTICE is he eby given that on Detember 2, 1983 H. N. Bailey. 410 Thorpe Road. Las Cruces, New Mexico 88005 filed application number LRG-4489 with the STATE_ENGINEER for permit to divert up to 500 acre-teet per annum of shallow geothermal water within the Lower Rio Grande Underground Water Basin from an existing well 160 feet in depth with 6-inch casing located in the NE½/NE½/NW½/ of Section 10. Township 21 South, Range 1 West, N.M.P.M.; for industrial and commercial geothermal application. After heat is extracted, water will be transmitted to an injection well to be drilled in the NE½/SE½/SW¼ of Section 3, Township 21 South Range 1 West, N.M.P.M. for return to the geothermal reservoir.

Any person, firm, association, corporation, the State of New Mexico or the United States of America, deeming that the granting of the above application will impair or be detrimental to their water rights, may protest in writing the proposal sel forth in said application. The protest shall set forth all protestant's reasons why the application should not be approved and must be filed, in triplicate, with S.E. Reynolds, State Engineer, District II Suboffice, P.O. Box 16518; Las Cruces, New Mexico 88004 within ten (10) days after the date of the last publication of this Notice.

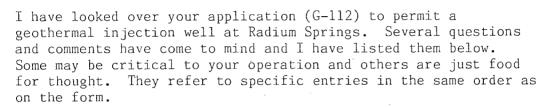
Pub. No. 83-1609 Publish: December 27, 1983; January 3, 10, 1984.

HUNT ENERGY CORPORATION 2800 THANKSGIVING TOWER DALLAS, TEXAS 75201

January 9, 1984 -

Mr. Harry N. Bailey 410 Thorpe Road Las Cruces, New Mexico 88005

Dear Mr. Bailey:



- 1. Location: If the location has been surveyed in and I have plotted correctly, it is on Federal Geothermal Lease NM- 34793 issued to Norma K. Hunt. Since I do not have the location of your production well, I assume it is on your land near the river in section 10. That means you will have to pump the water uphill to the disposal well. This may lead to other implications which I will discuss later.
- 2. Proposed Injection Formation: You list the Santa Fe Group and volcanic rocks. Published geologic maps indicate that the well would penetrate the Camp Rice Formation of the Santa Fe Group and would possibly go into the older Palm Park Formation at depth. However, the depths are unknown until the area is drilled, and you have not indicated a proposed depth for your well. Also, I am sure that there will be concern that you reinject into the same formation that you are producing from.
- 3. Top and Bottom of Formation: I believe the Form requires depths rather than descriptive rock type, and again refers to the point above in item 2.
- 4. Perforations or Open Hole?: Open hole is fine, but you may have problems keeping the hole open unless you go deep enough to get into harder rock than the Camp Rice Formation.
- 5. Proposed Interval of Injection: Refers to the depth interval of your injection zone.
- 6. Depth of Bottom of Deepest Fresh Water: You list 200 feet. I would suspect this may be much deeper. Has this been verified in any wells?
- 7. Anticipated Daily Volume: Minimum = 2000, Maximum = 8000. I assume these amounts are gallons.



- 8. Mineral Content of Water: I hope you have had the water chemically analyzed. This is for your protection as well as others and probably will be required by the State agencies. As you know, there are certain elements and dissolved gases which, if present, could cause severe problems with pumps, pipes, etc. A good analysis could save you money in a long run.
- 9. Gravity or Pressure Injection?: As I mentioned in item 1, you will have to pump the water uphill to the well. Depending on well conditions such as depth to static water table, depth to injection formation, and permeability of the formation, you may have to do more pumping than you thought.

Now for some general thoughts on the project. Although we have talked many times about developing the Radium Springs area and both you and the Hunts want to see successful development of the resource, I am sure that the Hunts will want to protect their lease rights. This includes the potential of cooling the resource by injecting cooler water into a possible production zone, or simply, into the wrong zone so as to lessen the long-term quality of the resource. Neither of us would want that to happen.

Hunt would probably have no objection to your reinjection well being on our lease if we could be assured, by sufficient scientific data, that it would not eventually harm the system. Can you be sure that your reinjection well at the proposed location would not eventually cool down your production zone? Has the location been selected on geological and hydrological data, or merely by convenience?

I offer these thoughts and questions in a constructive way for your consideration. I am sure the State will probably require more information from you, and I also remind you that the Bureau of Land Management will require permits because all of section 3 is federal land. I am glad to hear that you may have a customer for your hot water and I hope the venture will be successful.

Yours truly,

Roger L. Bowers

Geothermal Operations

Rezer L. Bours

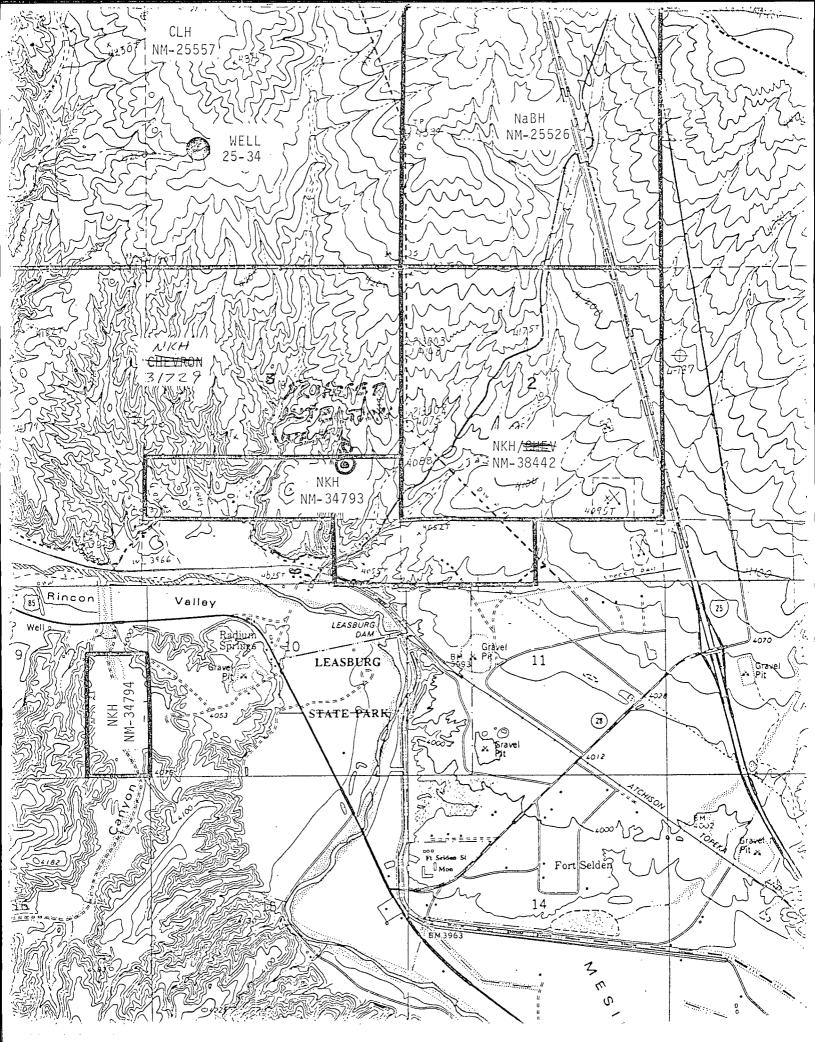
HONT ENERGY

P. O. BUA 2053, 2003 Fe 87501

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERMAL RESOURCES AREA

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NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 20 days from the date of receipt by the Commission's Santa Fe office, If at the end of the 20-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 503.





STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

January 30, 1984



BATAAN MEMORIAL BUILDING STATE CAPITOL SANTA FE. NEW MEXICO 87503

Hunt Energy Corporation Geothermal Operations Attn: Roger L. Bowers 2800 Thanksgiving Tower Dallas, Texas 75201

Re: Application LRG-4489

Dear Mr. Bowers:

On January 25, 1984 this office received your letter protesting the above-numbered application. The last date of publication was January 10, 1984 and, as provided in the legal notice, the last date to file a protest was January 20, 1984. Therefore, your protest is not timely.

In order to be a valid protestant to a water right application, the party must be the owner of a water right. This office has no record of Hunt Energy Corporation owning water rights in the Lower Rio Grande Underground Water Basin.

Please contact this office if further discussion would be helpful.

Sincerely,

S. E. Reynolds State Engineer

Harold Saunders

Water Rights Division

HS*k1

cc: J. B. Nixon H. N. Bailey

HUNT ENERGY COR. 2800 THANKSGIVING DALLAS, TEXAS T

ATION AR

January 16, 1964

Mr. S. E. Reynolds, State Engineer c/o District III Suboffice P. O. Box 16518
Las Cruces, New Mexico 88001

FEB - 2 1984

OIL CONSERVATION DIVISION
SAINTA FE

Dear Mr. Reynolds:

This letter is written to protest application number LRG-4489 filed by Mr. H. N. Bailey.

As described and filed, the application proposes to drill a geothermal injection well at a location in Section 3, Township 21 South, Range 1 West, NMPM, Dona Ana County, and to use that well for injection of up to 500 acre feet of shallow geothermal water per annum.

The proposed well location is on land subject to Federal Geothermal Lease NM-34793 which was issued to Norma K. Hunt on December 1, 1978. The remainder of Section 3 is covered by Federal Geothermal Lease NM-31729 which was issued to Chevron Resources and was assigned to Norma K. Hunt in 1983. Neither Hunt nor any of its agents has granted any permission for the actions described in the application by Mr. Bailey.

Hunt has expended more than 7 million dollars and eight years of technical effort to define the geothermal parameters of our leases. We do not want to have this investment placed in possible jeopardy by an action in which large volumes of cool water, with unknown mineral content, are injected into a possible production zone thus reducing the commercial potential of the geothermal resource.

Moreover, if the application is approved, Hunt reserves the right to pursue all necessary legal recourse to assure that the actions requested by Mr. H. N. Bailey are supported by standard acceptable hydrological and geological data, and that such actions will in no way or manner result in changes to the quality of the geothermal resource located on lands leased to Mrs. Hunt. We formally request that application LRG-4489 not be approved.

Yours truly,

Roger L. Bowers

Geothermal Operations

HUNT ENERGY CORPORATION 2800 THANKSGIVING TOWER DALLAS, TEXAS 75201

February 9, 1984

Mr. Joe D. Ramey, Division Director Energy and Minerals Department Oil Conservation Division P.O. Box 2088
Santa Fe, New Mexico 87501



Dear Mr. Ramey:

Hunt Energy Corporation requests your assistance to clarify New Mexico state regulations and policy concerning geothermal exploration, development, and lease rights. The following summarizes events of the past few weeks and leads to our specific questions.

On December 2, 1983, Mr. H. N. Bailey filed application LRG-4489 with the State Engineer's Office for permission to: 1) produce geothermal water from a well in T21S, R1W, section 10 (Radium Springs, Dona Ana County), 2) drill a well in section 3 (federal land) of the same township, and 3) use the new well for reinjection of the cooled water. Hunt, as the geothermal lessee for all of section 3, protested the disposal well (enclosure I) to protect our lease from Mr. Bailey's proposed actions. The State Engineer rejected our protest primarily because Hunt does not own any water rights in the Lower Rio Grande Underground Water Basin (enclosure II). Since we were protesting only the planned disposal well being on our lease, there appears to be no reasonable basis to reject that protest simply because we do not own water rights.

Prior to Mr. Bailey's filing an application with the State Engineer, he sent to Hunt a copy of OCD Form G-112 (enclosure III) for the reinjection well to be drilled in section 3. I responded directly to Mr. Bailey with several questions about the incomplete form and stated that Hunt would oppose his actions on our lease. Has Mr. Bailey filed this Form G-112 with your office, and if so, does Hunt have any right of protest?

It is obvious from the reply of the State Engineer's Office that a geothermal lessee has no lease or resource protection rights from that office unless the lessee also owns water rights. However, it is our understanding that, under present New Mexico laws, geothermal rights and consumptive water rights are separate and distinctly different rights, and that geothermal fluids may be produced by a geothermal lessee without water rights as long as all produced fluids are reinjected into the same producing formation.

Mr. Joe D. Ramey February 9, 1984 Page 2

If this is true, and if the Oil Conservation Division has jurisdiction over all geothermal activity in the State, how can a geothermal well be drilled with only the approval of the State Engineer's Office? What rights and protections, if any, are afforded to a geothermal lessee by the Oil Conservation Division?

Your response to our questions is critical to our development plans at Radium Springs, and your assistance and clarification will be greatly appreciated. Hunt hopes that these problems can be resolved administratively and that legal recourse, by any party, will not be necessary. Should you have any questions or need additional information concerning this matter, please contact me at the above address or call me at 214/880-8420.

Very truly yours,

Roger L. Bowers

Geothermal Operations

RLB/ct

encl.

HUNT ENERGY CORPORATION 2800 THANKSGIVING TOWER DALLAS, TEXAS 75201

January 16, 1984

Mr. S. E. Reynolds, State Engineer c/o District III Suboffice P. O. Box 16518 Las Cruces, New Mexico 88001

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Yours truly,

Roger L. Bowers

Geothermal Operations



STATE OF NEW MEXICO

STATE ENGINEER OFFICE SANTA FE

S. E. REYNOLDS STATE ENGINEER

January 30, 1984



BATAAN MEMORIAL BUILDING STATE CAPITOL SANTA FE. NEW MEXICO 87503

Hunt Energy Corporation Geothermal Operations Attn: Roger L. Bowers 2800 Thanksgiving Tower Dallas, Texas 75201

Re: Application LRG-4489

Dear Mr. Bowers:

On January 25, 1984 this office received your letter protesting the above-numbered application. The last date of publication was January 10, 1984 and, as provided in the legal notice, the last date to file a protest was January 20, 1984. Therefore, your protest is not timely.

In order to be a valid protestant to a water right application, the party must be the owner of a water right. This office has no record of Hunt Energy Corporation owning water rights in the Lower Rio Grande Underground Water Basin.

Please contact this office if further discussion would be helpful.

Sincerely,

S. E. Reynolds State Engineer

Harold Saunders

Water Rights Division

HS*k1

cc: J. B. Nixon

H. N. Bailey

APPLICATION TO PLACE WELL ON INJECTION-GEOTHERM

Operator		Address	
T. T. DATESM		ALO Chorne Rd., Las	Omnces, 177 00005
Lease Name	Well No.	Field Spendings	County
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I's Injection Through Tubing, Casing, or Annulus?	Perforations or Op	en Hole? Proposed Interval(s) of Injection	ction
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Impetion?		Other Than	the Proposed Injection Zone?
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Court of Datter of Daggert Stack Water Zone	Us This topostion for Bush	ose of Pressure Maintenance	
Digith of Bottom of Deepest Fresh Water Zone In This Area	or Water Disposal? (See F		view is T
Anticipated Daily Minimum Maxim	um Open or Closed	1 Type Is Injection to be, by Gra	vity or Approx. Pressure (DSI)
Votume (- 2000)	System	Pressure?	
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Have Copies of this Application Been Sent to Each Operator Within One-	l No []	· .	CCCC
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Ithis Application (see Rule 503)	- —	Yes No 🗔	Yes No 🖾
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(Signotüre)	<u>;</u>	(Title)	(Date)
	<i>3</i>		

NOTE: Should waivers from all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 20 days from the date of receipt by the Commission's Santa Fe office, If at the end of the 20 day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 503.



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

February 15, 1984

TONEY ANAYA GOVERNOR

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

Mr. Harry N. Bailey 25256 Terreno Drive Mission Valley, Ca. 92675

Dear Mr. Bailey:

This office has received several letters and copies of letters from Hunt Energy Corporation relating to your proposal to inject geothermal water into a well in Section 3, Township 21 South, Range 1 West. Hunt appears to be concerned that injection at the proposed location will interfere with their own geothermal operations.

I have checked our files and although the Hunt correspondence indicates that an Oil Conservation Division Form G-112 has been prepared, it has not yet been submitted to this office. Obtaining approval by this office of Form G-112 is a mandatory prerequisite to injection. Please consult your copy of the Geothermal rules and make sure all proper steps are taken. You will notice that the rules provide for notice to offsetting geothermal lease operators and allows them to object to the granting of injection authority.

I believe that the Hunt correspondence received to date is an objection and therefore under the rules, it will be necessary to schedule a hearing before the Oil Conservation Division. At this hearing both you and Hunt will be able to present your views on this matter and the Division will then issue an order approving or disapproving this injection operation.

Particularly, in view of our previous misunderstanding, I urge you to carefully review and have your consultants carefully review the Geothermal Rules and Regulations.

In this regard I understand that we have not yet received any further filings on the well which was the subject of the lawsuit. I hope you will keep in close touch with these operations.

I look forward to hearing from you.

Sincerely,

W. PERRY PEARCE General Counsel

WPP/dr

Hunt Energy Corp. 2800 Thanksgiving Tower Dallas, Texas 75201

Attention: Roger L. Bowers

Geothermal Operations

OIL CONSERVATION DIVIS

SANTE CE

Harry N. Bailey

June 24, 1983

State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: W. Perry Pearce

Assistant Attorney General

Reference: CV 83-292

Reference item has been turned over to our attorneys Martin, Lutz, Cresswell and Hubert in Las Cruces. I understand that Steve Hernandez of that firm has contacted you and will be co-operating with Dick Lohse our consulting geo-physicist and Larjon Drilling Company in making a reply to the allegations and that meanwhile you are agreeable to an extended time frame.

Steve also tells me that you had reported sending several letters to me on referenced subject and that I had not responded. I have three addresses: one in Las Cruces, one in Santa Ana and my home im Mission Viejo and such letters were not received by me at any of these. I would therefore appreciate it if you would send me copies of these letters to the above so I can see how they were addressed and learn how my mail is evidently going astray.

We may both be victims of faulty communication.

Yours very truly,

Harry N. Bailev

cc: Steven Hernandez

1/10 Carl Dick Loshe Re: moving to Harry Bailey property will be drilling his H.N. Bailey #15 will be pondding Tuesday (1-11-83) won't submit vitil Wednesday -- 0 -

Memo

From

CARL ULVOG
Chief Geologist

To File Bailey #15 C-10-215-1W

Last report was G-103 for T.A. (1/28/83)

If to be completed without additional drilling, we need

G-103 & G-106 for production well shut-in.

If to go on production we need G-104, 105 \$ 107 additional, PLUS

request for discharge permit.

(for handles on behalf of WQC.C.)

Bailey & Beal advised of above today 1/28
Oil Conservation Division

Santa Fe, N.M. 87501



STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

TONEY ANAYA GOVERNOR

February 23, 1983

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

Commercial Union Insurance Companies P. O. Box 20666 El Paso, Texas 79998

Attention: Linda Slape

Re: \$10,000 Multiple-Well-Low

Temperature Geothermal Bond Harry N. Bailey, Principal Commercial Union Insurance,

Surety

Bond No. CE71353-20

Gentlemen:

We are in receipt of your letter of February 18, 1983, requesting the status of the wells covered under the above-captioned bond. Wells Nos. 10, 11, 12, 13 and 14 can be released at this time and Wells Nos. 9 and 15 are to remain in force.

Should you need further information, please do not hesitate to contact me.

Sincerely,

Florene Davidson Staff Specialist

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For Permit -" (Form G-101) for Su		- N		
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Low-Temp Th	nermal LJ Injection/Disposal		8. F	arm or Lease Name
H.N. Bailey &	Accepted			~ \ 1
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	Adopted 10/1//4
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Operator GEOTHERMAL RESOURCES WELLS	
Land Office	5.a State Lease No.
	Private
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For Permit —" (Form G-101) for Such Proposals.)	
1. Type of well Geothermal Producer Temp. Observation	7. Unit Agreement Name · ·
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2. Name of Operator	8. Failt of Bease Name
H.N. Bailey & Associates	H. N. Bailey
3. Address of Operator	9. Well No.
Ronte 1, Box 1288 Las Couces, New Mexico 88001	10
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18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
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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
H. N. Bailey + Associates	H.N. Bailey
3. Address of Operator	9. Well No.
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NEW MEXICO OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE 87501

Form G-102 Adopted 10/1/74

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

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and Level Elev.	Producing Forma	tion .	Poo				De	dicated Acreage:
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1. Type of well Geothermal Prod	ucer Temp, Observation	×		7. Unit Agreeme	ent Name
Low-Temp Therm	nal 🗌 Injection/Disposal			N/	A
2. Name of Operator	S 4			8. Farm or Leas	e Name
H. N. Bailey & ASS 3. Address of Operator	ociates			H. N. Bai	ley
Route 1 Box 128	8, Las Cruces, N.	ew Mexico 8	800/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,
4. Location of wen				10. Field and P	ool, or Wildcat
Unit Letter B ; 2400	O Feet From The <u>Eas 7</u>	r _Line and 850	Feet From	Wild	Committee
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The NOV Line, Section	Township	S Range / VO	NMPM.		
	15. Elevation (Show whether	er DF, RT, GR, etc.)		12. County	-711111111
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16. Chec	k Appropriate Box To Indicate Na	tura of Nation Donat	or Other Du	Wone HAR	_(7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/7/
		iture of Notice, Report	of Other Da	ta	
NOTICE OF INTE	.e.,		SUBSEQUE	NT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON '_'	REMEDIAL WORK		L ALTER	RING CASING L
PULL OR ALTER CASING	CHANGE PLANS	COMMENCE DRILLI			& ABANDONMENT 🔀
PULL OR ALTER CASING L	CHANGE PLANS LJ	CASING TEST AND	CEMENT JOB	لــا	
		OTHER			
OTHER					
17. Describe Proposed or completed (Operations (Clearly state all pertinent	details, and give pertinen	net dates, inch	iding estimated d	ate of starting any
proposed work) SEE RULE 203.					
1111	1				
ompleted plugging	plan:				
h portion		1 / 1	,	. 0	()
1. Vack Fill of	role with cutting	s and dirt	to with	in 5 hee	et from
bottom of	hole with cutting:				
- ·			<i>(</i>		
2. Set packe	+ Kor cement and	paux ceme	nt plu	ig up to	and
within be	+ for cement and or trom of easing	·	•	<i>f</i> 1	
3. back [:1]	Casina with	L.+ /	/	` ,	0 /
0	n ding with ent	rings and a	lirt, to	within	4 Keet
thom sur	tace (it possible;	the casing is	only ap	prox. 4 fe	et long)
4. Cut casin	is a Part hali		/ _ / /	, ·	£ 8.
0	of theel octom	surrace a,	nd fou	r ceme	nl plug
trom 4	casing with ent face (if possible; ig 2 feet below feet to 2 feet 1 L with dirt to	oclow surka	ce an	dallow	some overflow
5. back fil	Lwith dirt to	surface			
15. Thereby certify that the informatio	matoove is true and complete to the be	ist of my knowledge and b	eliet.		
() - 1/ 1/4	$V \downarrow V$	\cap \cap \cap	1		
SIGNED Chard &	- John TITLE	sultan7	T	DATE	2-27-82
APPROVED BY Carl	TITLE	SENIOR PETROLEUM GE	OLOGIST	DATE 3	-8-82

	Form G-103 Adopted 10/1/74
NO. OF COPIES RECEIVED NEW MEXICO OIL CONSERVATION COMMISSION	,,,,,,,
DISTRIBUTION P. O. Box 2088, Santa Fe 87501	
File 1 V	
N. M. B. M. SUNDRY NOTICES AND REPORTS	
U. S. G. S ON	5. Indicate Type of Lease
	State Fee 🔀
Operator / GEOTHERMAL RESOURCES WELLS	5.a State Lease No.
Land Office	Private
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
H.N. Bailey & Associates	U A B 1
3. Address of Operator	9. Well No.
Route 1, Box 1288, Las Cruces, New Mexico 8800/	
4. Location of Well	10. Field and Pool, or Wildcat
\mathcal{L}	
Unit Letter 200 Feet From The <u>Fas 7</u> Line and 850 Feet From	om TITITION TO THE TOTAL OF THE
The North Line, Section 10 Township 215 Range 1W NM	
The North Line, Section 10 Township 215 Range 1W NM	PM.
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
11111111111111111111111111111111111111	Dona Hna
16. Check Appropriate Box To Indicate Nature of Notice, Report or Other	r Data
NOTICE OF INTENTION TO:	QUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON 🔀 REMEDIAL WORK	☐ ALTERING CASING ☐
TEMPORARILY ABANDON COMMENCE DRILLING OPNS	. DLUG & ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT	JOB
, aturn	<u></u>
OTHER	
OTHER	
17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinenet dates,	in It dies and the Country of the Co
proposed work) SEE RULE 203.	including estimated date of starting any
proposed worky dele Robe 203.	
roposed plugging plan:	
backfill hole with cuttings and dirt to w	0 10
Luack will hole with cuttings and dirt to w	thin 5 Keet from
hattam of a si	
outlon of casing	
2. Set packer for cement and pour cement p within bottom of easing	1
c. set packet hot cement and pour cement p	lug up to and
within battam of occin	<i>f</i> '
a controlled the easy sea	•
3. backfill casing with cuttings and dirt from surface (if possible; the casing is only	1 1 10 1
with eattings and alt	TO WITHIN 4 FEET
Cham surface (1) and the committee of th	0 (1)
thome surrace (In possible; the casing is only	approx. 4 Feet long)
4. Cut casing 2 heat below surlace and a	$+$ $a_{\mu\nu}$
one of the colow surface and p	our cement plug
From 4 Feet to 2 Feet below surface a	and all
4. Cut casing 2 feet below surface and p from 4 feet to 2 feet below surface a 5. back fill with dirt to surface	- + whow some overflow
18 Thereby certify that the information above is true and complete to the best of my beautides and 1-11-5	
V.V. V 7 41 0 11 1	/ 22 02
SIGNED Richard L. Lohse TITLE Consultant	DATE
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
APPROVED BY Carl Ulas TITLE SENIOR PETROLEUM GEOLOGIST	2-18-82
APPROVED BY	DATE

 $\sqrt[\lambda]{\eta}$ NDITIONS OF APPROVAL, IF ANY:

			Adopted 10/1/74
NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSE	RVATION COMMISSION	
DISTRIBUTION	P. O. Box 2088, S	Santa Fe 87501	
File / /			
N. M. B. M.	SUNDRY NOTICES	AND DEPORTS	
U. S. G. S			5. Indicate Type of Lease
	ON		State Fee 🔀
Operator /	GEOTHERMAL RES	SOURCES WELLS	5.a State Lease No.
Land Office			0 1
		·	mittight frammer
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 Propo	sals.)		
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
H. N. Bailey & As	sociates		H. N. Bailer
3. Address of Operator	30014183		9. Well No.
<u> </u>	1 0	N M Coal	11
4. Location of Well	10, Las Cruces, 1	New Mexico, 88001	10. Field and Pool, or Wildcat
1 12	F -	- 950	1 1 1
Unit Letter 2 2400	Feet From The &S_	Line and 850 Feet From	Wildcat
4	10		
The North Line, Section	10Township_21	S Range W NMPM.	
	15. Elevation (Show whether	r DF, RT, GR, etc.)	12. County
	01 398	0 feet	Dona Ara
16. Check An		ture of Notice, Report or Other Da	
	-	1	
NOTICE OF INTENTIO	N TO:	SUBSEQUE	ENT REPORT OF:
PERFORM REMEDIAL WORK . PL	.UG AND ABANDON L	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON		COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING L	HANGE PLANS	CASING TEST AND CEMENT JOE	
			
·		OTHER	
OTHER			
		<u> </u>	
17. Describe Proposed or completed Operat	ions (Clearly state all pertinent	details, and give pertinenet dates, incl	uding estimated date of starting any
proposed work) SEE RULE 203.			
0			
Drilling: began 5-	29-81. Complet	1 5-30 OI - C-	01101
Stilling. Tegare o	- Complet	sa 7-20-81 " 215	e of hole o inch ;
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Total depth 130	teet;		
Formation: 0 to 3	<u>.</u>	Les La Cutto La Cu	astured limestone and
10tm2, 16x : 0 to 3	reet alluvium;	4 to 130 extremely to	n a
Water-bearing ?	one . top 9	Lest " Batton	130 Feet
Water-bearing ?		3	
Water-bearing for Flow: 80 gpm	1 . 0		
bearing po	rmation: Pink	e thyolite and li	me stone
<i>p</i> /			
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^		0 0	
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7. 191	, , ,	11001	THE STREET
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Cement			
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		st of my knowledge and helief.	
18. I hereby certify that the information abo	ve is true and complete to the bes	_	
18. I hereby certify that the information abo	ve is true and complete to the bes	_	.7-1-01
18. I hereby certify that the information abo	ve is true and complete to the bes	_	
18. I hereby certify that the information abo		_	
18. I hereby certify that the information abo	ve is true and complete to the bes	onsultant	
18. I hereby certify that the information abo	ve is true and complete to the bes	_	

NO. OF COPIES RECEIVED DISTRIBUTION		/ MEXICO OIL CONSE P. O. Box 2088, S	RVATION COMMISSION Santa Fe 87501		150,200
N.M.B.M. U.S.G.S. Operator Land-Office BLM			MIT TO DRILL, DEEPEN RMAL RESOURCES WE	I, STATE	
1a. Type of Work Drill	¥	Deepen 🗆	Plug Back	7. Unit Agr	eement Name
	mal Producer 🔲		Temp Observation	Hil	Lease Name V. BAILEY
2. Name of Operator	N. BAIL	EY		9. Well No.	
				10. Field ar	d Pool, or Wildcat
4. Location of Well UNIT LET	30X 128	ED 890 FEET 1	FROM THE	LINE	
AND A 420 FEET FROM	THE LINE OF	SEC. () TWP. 2	RGE.	NMPM 12. County	
				Donat	• ((((((((
				9A. Formation	20. Rotary or C.T.
21. Elevations (Show whether DF	F. RT, etc.) 21A. Kind	l & Status Plug. Bond	500'	22. Annre	ROTARY Date Work will start
		ADODOSED GASING A	21B. Drilling Contractor	5-	ox. Date Work will start
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2 "		500	G. TORTO OF OLIMETO	201.101
APPROVAL VALID FOR PERMIT EXPIRES SUNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNLESS DRILLING UNITHIN 24 HOURS	DAYS 23-8/ NDERWAY COMMISSION TO COMMISSION TO BEGINNING	BE NOTIFIED OPERATIONS			,
IN ABOVE SPACE DESCRIBE PR zone. Give blowout preventer proging I hereby certify that the information of the second secon	ram, if any.	plete to the best of my	•		
(This space for S APPROVED BY CARL L CONDITIONS OF APPROVAL, IF	llvog		PETROLEUM GEOLOGIST		

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

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

	Ail d	distances must be fro		ries of the Secti	
Operator		· L	ease		Well No.
Init Letter S	Section Townsh	j ^p <	Range	County	ng Ana
ctual Footage Locati	A/		ad 2426		
round Level Elev.	Producing Formation		ool	feet from the	he line Dedicated Acreage:
			1 1 1		Acres
1. Outline th	he acreage dedicated to th	e subject well by	colored pencil or	hachure mark	is on the plat below.
If more t and royal		d to the well, ou	tline each and id	entify the ow	mership thereof (both as to working inte
	than one lease of differer tization, force		licated to the we	ell, have the in	nterests of all owners been consolidated
☐ Yes	☐ No If answer is	"yes," type of con	nsolidation		
If answer is 'necessary.)		1 tract description	s which have act	tually been co	onsolidated. (Use reverse side of this for
					olidated (by communitization, unitization been approved by the Commission.
			1		CERTIFICATION
	 		i i		I hereby certify that the informat contained herein is true and complete the best of my knowledge and belief.
	1.		1		
	+				HINIBAILE)
					HINIBAILE) Position Owner loperator
	1				Company
	1				Date 5-3-8/
					I hereby certify that the well locat shown on this plat was plotted from finotes of actual surveys made by me under my supervision, and that the sa
					I hereby certify that the well locat shown on this plat was plotted from finotes of actual surveys made by me
					I hereby certify that the well locat shown on this plat was plotted from finotes of actual surveys made by me under my supervision, and that the sais true and correct to the best of knowledge and belief.
					I hereby certify that the well locat shown on this plat was plotted from finotes of actual surveys made by me under my supervision, and that the sais true and correct to the best of knowledge and belief. Date Surveyed
					I hereby certify that the well locat shown on this plat was plotted from finotes of actual surveys made by me under my supervision, and that the sais true and correct to the best of knowledge and belief.

		β >. : :	Francisco Co.	مستولستوني ومواد	Form G-103 Adopted 10/1/74
NO. OF COPIES RECEIVED	NEW MEXICO OIL CONS	ERVATION COMMISSION	N 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	141/12/17	7,405,64 10,1,74
DISTRIBUTION	P. O. Box 2088,	Santa Fe 87501	₩ MAR	0 1000	
File N. M. B. M.	CLINDRY NOTICE	CAND DEDOOTS	W.Att	8 1982	:
U. S. G. S	SUNDRY NOTICE:		L CONSERV	A FICHWICKESTON	f Lease
Operator (GEOTHERMAL RE		SAN	TA STE	Fee 🔀
Land Office				5.a State Lease No.	
				THE PERSON	mmm
Do Not Use This Form for Proposals to Drill For Permit -" (Form G-101) for Such Propo		Different Reservoir. Use	"Application		
1. Type of well Geothermal Producer	Temp. Observation	\boxtimes		7. Unit Agreement	Name ··
Low-Temp Thermal 2. Name of Operator	Injection/Disposal			8. Farm or Lease N	Vame
H. N. Bailey & Assoc	iates			H.N. Bai	(2)
Route 1, Box 1288, 1	as Chuces New	Mexico 88	800 I	9. Well No.	
				10. Field and Pool.	1
Unit Letter B; 1550	Feet From The <u>Las</u>	Line and 800	Feet From	Wild of	CATTONIO
The North Line, Section	10 Township <u>7</u> /	S Range 110	<u> </u>		
	15. Elevation (Show wheth	^		12. County	
	W G L 3980		· · · · · · · · · · · · · · · · · · ·	Dona Ana	
Check Ap	propriate Box To Indicate N	ature of Notice, Repor	t or Other D:	nta	
NOTICE OF INTENTIO	_ 		SUBSEQUE	NT REPORT OF:	
PERFORM REMEDIAL WORK L PL	LUG AND ABANDON '	REMEDIAL WORK COMMENCE DRILL	ING OPNS		G CASING L BANDONMENT 🔀
	HANGE PLANS	CASING TEST AND			(a) (iva a) (iva a) (iva a)
		OTHER			[-
OTHER		011121			
17. Describe Proposed or completed Operat	ions (Clearly state all pertinen)	details and give pertine	net dates incl	uding estimated date	of starting any
proposed work) SEE RULE 203.	into folicarly state an perintin	tretans, until give perime	net dates, met	nang estimatea aute	of starting any
completed plugging p	lan b				
1. backfill Hole bottom of ea	with cuttings	and dist	to with	is feet fi	ncm
hattom of ca	sino	and the second			
7 e + and	1	/	1	4	· /
2. Set packer C. within botto	the Eement an	d paux cem	ient plu	ig up to a	end.
within botto	m of easing			V	· · · · · · · · · · · · · · · · · · ·
3. back till cas	ing with entit	ings and dir	t to w	thin 4 Frest	L Chan Sun C.
within botto 3. back Lill cas 4. Cut casing 2 and Pour cement	fext below 5	is face (if pa	ssible; be	edrock encour	affered atsur
and four cement	olue P		111	0	V=1€00 /
	werflow (we	19 C FC	E 1 11 21 6	m.) / (() - haca	and
. 5. back Pill w	41 / + 4	may cenen	1 15 5.	nthace)	
18. I hereby certify that the information abo	ve is true and complete to the b	est of my knowledge and	<u>ト ゆささる:</u> belief.	ble)	·
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SIGNED Richard L.	Lotse TITLE	on sultar	1 <u>T</u>	рате2-	27-82
APPROVED BY Carl U					

DISTRIBUTION P. O. Box 2088, Santa Fe 87501				Adopted 10/1/74
SUNDRY NOTICES AND REPORTS U.S. G. 3. GEOTHERMAL RESOURCES WELLS Solve So	NO. OF COPIES RECEIVED	NEW MEXICO OIL CONSE	RVATION COMMISSION	
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Solution of the Solution of th	File / 1"			
ON GEOTHERMAL RESOURCES WELLS Soute	N. M. B. M.	SUNDRY NOTICES	AND REPORTS	
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CO NOT USE THIS Form for Proposed to Drill or to Deepen or Plug Back to a Driftern Reservoir. Use "Aprilication Proposed Trans. Observation Pr	· · · · · · · · · · · · · · · · · · ·	GLOTTERIMAE NES	OTICES WELES	5.a State Lease No.
DO NOT the This Form for Prosocials to Drill or to Decemon or Plug Back to a Different Reservoir. Use "Application Cor Permit "Form O-1891 for Book Proposed to Surface of Surfa	Latita Office		,	Private
Toperation Gentlering Producer Temp. Observation Temp. Observa				
Type of well Geothermal Producer Temp. Observation Temp. Obser			Different Reservoir. Use "Application	
2. Name of Operator Low Tomp Thermal Injection/Disposal 2. Name of Operator H. N. Barley H. M. Barley H.	<u> </u>		X	7. Unit Agreement Name
2. Name of Operator H. M. Bailey 2. Address of Operator Ratte 1. Box 1288 Las Cruces, New Mexico 88001 10. Field and vool, or Wildest 11. Unit Letter, B 550 Feet From the East Line and 800 Feet From The North Line, Section 10 Township 715 Range 1W MMPM. 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON COMMENCE OF ILLING OPPNS. ALTERING CASING TEMPORARILY ABANDON CHANGE PLANS CASING TEST AND CEMENT JOB OTHER OTHER 17. Describe Proposed or completed Operations (Clearly state all pertinent detalls, and give pertinent dates, including estimated date of starting any proposed work, SEE RULE 203. Lopos ed plugging plan : 1. backfill Hole with cuttings and dirt to within 5 feet from bottom of easing 2. Set packer for lement and paut cement plug up to and within bottom of casing 3. back fill casing with cuttings and dirt to within 4/cetfrom such and Pour cement plug up to and within bottom of easing 3. back fill casing with cuttings and dirt to within 4/cetfrom such and Pour cement plug from 4 feet to 2 feet below Surface and allow some over flow (we may cenent to surface) 5. back fill with dirt to surface 10 possible) 16. Ibereby cycly they he information phove by type yell complete to the best of my knowledge and belief. 17. Describe the proposed of possible 10 possible) 18. Ibereby cycly they he information phove by type yell complete to the best of my knowledge and belief. 18. Ibereby cycly they he information phove by type yell complete to the best of my knowledge and belief. 18. Ibereby cycly they he information phove by type yell complete to the best of my knowledge and belief. 18. Ibereby cycly they he information phove by type yell complete to the best of my knowledge and belief.			<u></u>	N / A
H.M. Bailey 1. Address of Operator React 1 Box 1288 as Cruces New Mexica 88001 10. Field and Pool, or Wildcat 11. Location of Wolf 12. Location of Wolf 13. Elevation (Show whether Dr. RT. GR. etc.) 14. M. Bailey 15. Elevation (Show whether Dr. RT. GR. etc.) 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 17. Dear Notice of Intention to: 18. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 18. Subsequent Report of: 18. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 18. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 18. Subsequent Report of: 18. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 18. Subsequent Report of: 18. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 19. Dear Notice of Intention to: 19. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Subsequent Report of: 10. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Subsequent Report of: 21. Data Leving Casing 22. Check Check Plans 23. Data Plug and Adams 24. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 25. Data Plug and Adams 26. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 27. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 28. Data Plug and Adams 29. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 29. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 29. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 29. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data 20. Check Appropriate Box To Indicate Nature o		Injection/Disposal		8. Farm or Lease Name
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Route 1, Box 1288, las Cruces, New Mexico 88001 10. Isolation of Well Unit Letter: B 1550 Feet From the East Line and 800 Feet From The North Line, Section 10 Township 715 Range 1W NAPM. (3) Country (4) Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON COMMENCE ORILLING OPPS. CASING TEST AND CEMENT JOB OTHER The Describe Proposed or completed Operations (Clearly stare all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 203. Proposed plugging plan: 1. backfill Hole with cuttings and dift to within 5 feet from bottom of easing 2. Set packer for lement and pour comment plug up to and within bottom of easing 3. back fill casing with cuttings and dift to within 4 feet from sufficient plugging plan is the cutting of the cutt		iates		
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15. Elevation (Show whether DF, RT, GR, etc.) 12. County G1 3980 feet Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUS AND ABANDON REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. PLUG & ABANDONMENT COMMENCE OF TO COMMENCE DRILLING OPNS. PLUG & ABANDONMENT COMMENCE DRILLING OPNS. PLU	Unit Letter 5 1550	Feet From The	Line andFeet From	THE CANTERIOR
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APPROVED BY CARL ULAND TITLE SENIOR PETROLEUM GEOLOGIST DATE 2-18-82				
The state of the s	APPROVED BY Carl 21	TITLE S	ENIOR PETROLEUM GEOLOGIST	DATE 2-18-82
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	Adopted 10/1//4
NO. OF COPIES RECEIVED NEW MEXICO OIL CONSERVATION CON	MMISSION
DISTRIBUTION P. O. Box 2088, Santa Fe 8750	<u>,</u>
File 1 V	
N. M. B. M. SUNDRY NOTICES AND DEPOR	T.C.
SONDRY NOTICES AND REPOR	5. Indicate Type of Lease
	State T
Operator GEOTHERMAL RESOURCES WE	5.a State Lease No.
Land Office	
	Private
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reserve	oir. 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	N/A
2. Name of Operator	8. Farm or Lease Name
H. N. Bailey and Associates	H. M. Bailer
3. Address of Operator	9. Well No.
Route 1, Box 1288, Las Cruces, New Mex	12 1800/
4. Location of Well	10. Field and Pool, or Wildcat
Unit LetterB	800 Feet From Wild cat
Office Letter	Feet From IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
NAOTH IN 218	IW NMPM.
The NORTH Line, Section 10 Township 215 Range	NMPM. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Elevation (Show whether DF, RT, GR,	etc.) 12. County
11111111111111111111111111111111111111	Dona Ana
16. Check Appropriate Box To Indicate Nature of Notice	e, Report or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL	
	57
CASING TE	EST AND CEMENT JOB
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OTHER	
OTHER	
17. Describe Proposed or completed Operations (Clearly state all pertinent details, and giv	pe pertinenet dates, including estimated date of starting any
proposed work) SEE RULE 203.	p and a second and
Drilling: began 6-5-81; Completed	6-7-9100: 011
- on prefered	TOI, SICE OF HOLE ?
7 . []	
Total depth 115 feet;	
Formation: o to 14 feet loose sand, 14 to 115 feet fractured	ananal di baillia
o to the test course sand	graver, & vourages
14 to 115 feet fractured	Pink vhyolite
	The state of the s
Water-bearing zone: 11 to 115 feet	
rearing zone; 11 10 110 FEET	
Maria	. •
Water-bearing formation: Pink thyol flow: 50 gpm (estimated)	116
Flow: 30 gpm (estimated)	
4 '	
	- ^ - ·
casing: top ofert bottom 14 keet.	Diameter sinche
0, + 1, 1)
Casing: top ofert bottom 14 feet; Cement none 18. I hereby certify that the information above is true and complete to the best of my knowledge.	
18. I nereby certify that the information above is true and complete to the best of my knowle	age and belief.
SIGNED Richard L. Lohse TITLE Consul	
SIGNED 1 Whard of Notice TITLE Consul	tant DATE 7-1-81
$O = O \rightarrow A$	n 15 81
APPROVED BY Carl Woog TITLE SENIOR PETROLE	UM GEOLOGIST DATE 7-15-81
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Operator	1	
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NEW MEXICO OIL CONSERVATION COMMISSION

DISTRIBUTION	N	, P. C	D. Box 2088, Santa Fe 87501		
File	1 1			_	
N.M.B.M.	1				5. Indicate Type of Lease
U.S.G.S.		APPLICATIO!	N FOR PERMIT TO DRILL, I	DEEDEN	STATE FEE
Operator			CGEOTHERMAL RESOUR		5.a State Lease No.
LandsOffice BLN	1		· OLOTTILITIES TIEBOOTT	OLO WELL	
	3		· 		
1a. Type of Work	Drill 💢	Deepen	☐ Plug Back		7. Unit Agreement Name
b. Type of Well	Geothermal Pro	oducer 🔲	Temp Observation	n 🔉	8. Farm or Lease Name
	Low-Temp The	ermal	Injection/Disposal		HIN, IBAILEY
2. Name of Operator	H.N.	BAILEY			9. Well No.
3. Address of Operat	7 1 B	ox 1288			10. Field and Pool, or Wildeat
4. Location of Well	UNIT LETTER	LOCATED 8	70 FEET FROM THE	LINE	
AND 1660 F	FEET FROM THE	E LINE OF SEC.	J TWP. 2 S RGE.	NMPM	
					12. County DonaAha
			19. Proposed Dept	th 19A. Formation	20. Rotary or C.T. 12 OT AIR Y
21. Elevations (Show	whether DF, RT, e	tc.) 21A. Kind & Statu	s Plug, Bond 21B, Drilling Con-	tractor	22 Approx Date Work will start

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
L#"	2"		500		
					•

APPROVAL VALID FOR 90 PERMIT EXPIRES 8-23 UNLESS DRILLING UNDERWAY

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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM:	If proposal is to deepen or plug back, give data on present productive zone and proposed new product
zone. Give blowout preventer program, if any.	
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

SENIOR PETROLEUM GEOLOGIST

NEW MEXICO OIL 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 distances must be from the outer boundaries of the Section. Well No. Lease Operator Dona Ana Range Unit Letter 5 Actual Footage Location of Well: feet from the line feet from the line and Dedicated Acreage: Producing Formation Pool Ground Level Elev. Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation__ ☐ Yes ☐ No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 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. 1320 1650 1980 2310 2000

		•	The far		Form G-103
NO. OF COPIES RECEIVED	NEW MEXICO OIL C	ONSERVATION COMMISSIO	ON - MA	54W12	
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Operator	GEOTHERMAL	RESOURCES WELLS	SA	NTAGE	Fee 🔀
Land Office				5.a State Lease	
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Do Not Use This Form for Proposals to Drill For Permit —" (Form G-101) for Such Propo		to a Different Reservoir. Use	: "Application		
1. Type of well Geothermal Producer	Temp, Observation	n 🔀		7. Unit Agreeme	ent Name
Low-Temp Thermal	Injection/Disposa			N.	14
2. Name of Operator	1			8. Farm or Leas	e Name .
II N Rilay & Acord	ciates			HARRIT	.a.,
3. Address of Operator	-			9. Well No.	X.Y
Route 1, Box 1288,	Las Cruces	, New Mexic	o 8800/		13
4. Location of Well			1	10. Field and Po	ool, or Wildcat
Unit Letter $B + 1600$	Feet From The	ST Line and 650	Feet From	1717777	A Cat
The North Line, Section 1	n Township	215 0000 11	U NMPM.		
The MONTH Elle, Section	O TOWNSHIP	Range	V NIVIPIVI.		
	15. Elevation (Show w	hether DF, RT, GR, etc.)		12. County	, 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
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proposed work) SEE RULE 203.	ions (clearly state an perti	nent details, and give pertit	iener autes, inchi	amg estimated di	ne of starting any
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within bottom	· of casing		() 1	
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- 1 0011 -		\wedge		iome co	CFRIEW
5. back fill wi	th dut to	Surlage.			
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SIGNED Cinard	Nother TITLE	\ onsulfan		DATE 2	- 27-82
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SPPROVED BY	lug TITLE	SENIOR PETROLEUM	PENTORIZI	DATE	-8-82
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							Form G-103 . Adopted 10,	
NO. OF COPIES RECEIVED	Τ		NEW MEXICO O	IL CONSE	RVATION COMMISSION		. Adopted 10/	1//-
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N. M. B. M.			SUNDRY	NOTICES	AND REPORTS			
U. S. G. S				ON			icate Type of Lease	1
Operator	1		GEOTHER	WAL RES	OURCES WELLS	State		*
Land Office							te Lease No.	
			,				Privete	<i>\\\</i>
Do Not Use This Form for F For Permit —" (Form G-101				Back to a D	ifferent Reservoir. Use "Applica	ation		
1. Type of well Geoth	ermal F	Producer 🗆	Temp. Obse	rvation	×	7. Uni	t Agreement Name	
	Temp Th	nermal	Injection/Di	sposal l		8 Fari	m or Lease Name	
2. Name of Operator H. N. Balley 3. Address of Operator	4	Assoc	iates				Bailey	
3. Address of Operator	. 15	ما ه	0	a A	La Maria 80	9. Well	No. /	
4. Location of Well	16	Βο /)-α	CS Crace	<u>.s.</u>	lew Mexico 88	10. Fie	eld and Pool, or Wildcat	
Unit Letter & 2	160	30	Feet From The	tasT	Line and G S O Feet	From	Wildcat	II
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	(///	<u> </u>	15. Elevation (She	ow whether	DF, RT, GR, etc.)	12. Co	unty	//
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			s (Clearly state all	pertinent d	letails, and give pertinenet date	es, including est	imated date of starting an	y
proposed work) SEE RU	JLE 20:	3.						
Proposed plug	1912	a plan	~ <u>!</u>					
1 60.16	1				1 1 * 2 2 2			
1. back kill	hole	& with	, cutting	s and	dirt to with	in 5 ho	et lugar	
bottom	or C	CASIL	; J		dirt to with	5 1.6	CI KNUM	
2 8. + 1.	. l.	0	λ λ	1	0	1	, ,	
c. set pai	C K & 1	h kom	Vcement	and	pour cement	plug u	p to and	
with in	po.	tTom	of casin	a		· Ø	l .	
3 hook C	11 .	٠,		χ,			. 0 /	
s. Order Fi	F1 C	Lasing	with e	uttin	as and dirt t	to withi	n 4 Feet	
from s	m ()ace		(gs and dirt t			
4 . 1		~ 0	111		-face and pon +face and all		, , ,	
1. Cut ca	sing	, 2 he	et below	s su	-hace and pan	ch cem	ent plug	
Rhom 46] [t to 2	Root Ha		. () / //	1		
			reel oak	w sa	there and all	ow som	e overflow	
5. back) [[.i.	1:1	!	0			
J. ORCK	-1 ll	w17h	dint y	-o su	thace			
					of my knowledge and belief.			
$\nu \cdot \nu$	- (/	\mathcal{S}	YV	ϵ	11:1		1 25 02	
signed 1 cha	SOL	« · O	10 Tse_TI	TLE	onsultant	DATI	1-27-82	
_								
APPROVED BY	arl	Ulan	<u> </u>	SEN	OR PETROLEUM GEOLOGIST		2-18-82	
APPROVED BY			<i>-(1</i> − − − ⊤ 1	I L.E		DATI	<u> </u>	

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File	1	1			
N. M. B. M.			SUNDRY NOTICES AND REPORTS		
U. S. G. S			ON	5. Indicate Type of	Lease
Operator	1		GEOTHERMAL RESOURCES WELLS	State	Fee 🔀
Land Office				5.a State Lease No.	
			,	Private	2
Do Not Use This Form for P For Permit —" (Form G-101)			Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application Proposals.)		
1. Type of well Geothe				7. Unit Agreement N	Name
2. Name of Operator				8. Farm or Lease Na	ime
H. N. Bailey	٥	+ F	ssociates	H. N. Bai	ley .
3. Address of Operator				9. Well No.	
Koute 1, Bo	*	128	38, Las Cruces, New Mexico 88001	13	
4. Location of Well			·	10. Field and Pool,	
Unit Letter		160	DO Feet From TheEQSTLine andG50 Feet From	Wilde	+
			- 14		
The NORTH Lir	ne, Se	ction	OTownship 2 SRange WNMPM		
			15. Elevation (Show whether DF, RT, GR, etc.)	12. County	<i>HHHH</i>
				h . N	
	///		GL 3980 Feet	Nona Anal	
16.		Checi	Appropriate Box To Indicate Nature of Notice, Report or Other Da	ata	
NOTICE	OF	INTE	NTION TO: SUBSEQUE	ENT REPORT OF:	
PERFORM REMEDIAL WOR	RK L	_	PLUG AND ABANDON LJ REMEDIAL WORK	L ALTERING	CASING
TEMPORARILY ABANDON	-	_	COMMENCE DRILLING OPNS.	PLUG & AE	BANDONMENT L
PULL OR ALTER CASING	Ĺ		CHANGE PLANS L CASING TEST AND CEMENT JOE	3 [_]	
			OTHER		
OTHER					
OTTEN					
17. Describe Proposed or co	omple	eted C	perations (Clearly state all pertinent details, and give pertinenet dates, inc	luding estimated date	of starting any
proposed work) SEE RU	LE 2	03.			
D. 111. 1			0 01 0 0 1 1 0 0 0 0 0 0 0	11 -	1 -
Drilling : beg	an	_ C	-8-81; completed 6-9-81; size of	hole 5 inc	<u> </u>
0 , 1	1	1	- 1 - 1 - C - 4		,
tot	ral	0	epth 145 feet;		
F , .					
			21 feet alluvial		
7	1 4	0	145 feet fractured pink rhyolite		
			ne: 20 to 145 feet		
Water ban	J	p	ormation: Pink rhyolite		
DI CATO SECURI	ing	. F	ormation & Pink thyolite		
flow: 75°	ŦŔ	m	Lestimated)		
Casing: top	©_	Fe	et; Bottom 21 feet; Diameter	5 inch o	
Cement:			•		
			n above is true and complete to the best of my knowledge and belief.		··
$\bigcap \left\langle 1\right\rangle$	$\widetilde{\Omega}$	· //			
SIGNED KIRKAN	V	\mathcal{I}	Lokse TITLE Consultant	DATE7-/	-81
	``	· · ·	TONOUT UNITED TO A STATE OF THE	DATE	
APPROVED BY	ar	2	llang TITLE SENIOR PETROLEUM GEOLOGIST		5-81



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N.M.B.M.	4	
U.S.G,S.	ŀ	
Operator	1	
Land-Office RLM	1	

NEW MEXICO OIL CONSERVATION COMMISSION

DISTRIBUTIO	N	P. O. Box 20	088, Santa Fe 87501		
File	Q 1000			***************************************	
N.M.B.M.	4			5	. Indicate Type of Lease
U.S.G.S.		APPLICATION FOR P	ERMIT TO DRILL, DEEP	EN.	TATE FEE 🗓
Operator			THERMAL RESOURCES V	1.5	a State Lease No.
Land-Office BLM		,			
1a. Type of Work	Drill 📜	Deepen	Plug Back	7	. Unit Agreement Name
b. Type of Well	Geothermal Produce	r 🗆	Temp Observation	8	. Farm or Lease Name
3, 1, p. 3.	Low-Temp Thermal		Injection/Disposal		YIN, BAILEY
2. Name of Operator	HIN. B	AILEY		9	. Well No.
3. Address of Opera			s Cruces 8	8001	0. Field and Pool, or Wildcat
4. Location of Well	UNIT LETTER	LOCATED 540 FE	EET FROM THE	LINE	
AND 1740	•	LINE OF SEC.		U NMPM	
				1	2. County
					one Ana
					ona Ana
			19. Proposed Depth	19A. Formation	20. Rotary or C.T. ROTARY

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2"		500		
					

APPROVAL VALID FOR 90 PERMIT EXPIRES 8-23 UNLESS DRILLING UNDERWAY

CONDITIONS OF APPROVAL, IF ANY:

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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout preventer program, if any.

I hereby certify that the information above is true and Signed	complete to the best of my knowledge and belief. Title Dwher Openator	Date 5-3-81	
'(This space for State Use)			
APPROVED BY Carl Illung	TITLE SENIOR PETROLEUM GEOLOGIST	5/25/81	



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

Form G-102 Adopted 10/1/74

GEOTHERMAL RESOURCES WELL LOCATION AND ACREAGE DEDICATION PLAT

rator HIN	BAILEY	Lease		•	Well No.
	Townshi	p Rang	ge Cou	ong An	8
ual Footage Location		line and	- 4 4 4	rom the	line
and Level Elev.	Producing Formation	Pool	<i>1</i>		Dedicated Acreage:
1. Outline th	e acreage dedicated to the	e subject well by colored	l pencil or hachure	marks on the plat t	Acres pelow.
2. If more the	nan one lease is dedicated y).	i to the well, outline ea	nch and identify th	e ownership thereof	(both as to working inte
	han one lease of differentization, unitization, force-		to the well, have t	the interests of all	owners been consolidated
☐ Yes	☐ No If answer is "	'yes," type of consolidat	ion		
If answer is "necessary.)	'no," list the owners and	tract descriptions which	h have actually bee	en consolidated. (Us	se reverse side of this for
	will be assigned to g, or otherwise) or until a				
	-			-	·
	1	·	1		CERTIFICATION
	 			contained	certify that the informat herein is true and complete f my knowledge and belief.
	1		1	Name	
				Position Company	1BAILEY
	i 			Date 5	-3-81
	1 .				
				shown on notes of under my	certify that the well local this plat was plotted from f actual surveys made by me supervision, and that the s
		t) ·	nd correct to the best of
	 		<u> </u>	knowledg	e and belief.
	 		 	Date Surveye	
			 	Date Surveye	ofessional Engineer

SENIOR PETROLEUM GEOLOGIST

		Adopted 10/1/74
NO. OF COPIES RECEIVED NEW MEXICO OIL CONSERVA	TION COMMISSION	
DISTRIBUTION P. O. Box 2088, Santa	Fe 87501	
File /		
N. M. B. M. SUNDRY NOTICES AN	D DEDODTS	
SONDIT NOTICES AN	D REPORTS	5. Indicate Type of Lease
	DOES WELLS	State 🗆 Fee 🗶
Operator I GEOTHERMAL RESOUR	RCES WELLS	5.a State Lease No.
Land Office		
		markitettennin
Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Differ	ent Reservoir. Use "Application	
For Permit —" (Form G-101) for Such Proposals.)		The state of the s
1. Type of well Geothermal Producer Temp. Observation		7. Unit Agreement Name
Low-Temp Thermal Injection/Disposal		N/ <i>F</i>
2. Name of Operator		8. Farm or Lease Name
H. N. Bailey & Associates		H.N. Bailey
3. Address of Operator		9. Well No.
Route 1, Box 1288, Las Cruces, New M	exico 88001	14
4. Location of Well		10. Field and Pool, or Wildcat
Unit Letter C & 2500 Feet From The WesT L	ine andSSOFeet From [Wildeat
The North Line, Section 10 Township 215	RangeNMPM.	
The		
15. Elevation (Show whether DF,	RT, GR, etc.)	12. County
(1)	+	
	eel	Dona Ana IIIIIIII
16. Check Appropriate Box To Indicate Nature	of Notice, Report of Other Dat	a
NOTICE OF INTENTION TO:	SUBSEQUEN	IT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON (COMMENCE DRILLING OPNS.	PLUG & ABANDONMENT
PULL OR ALTER CASING CHANGE PLANS	ASING TEST AND CEMENT JOB	
·		ــــ
·	OTHER	
OTHER		
17. Describe Proposed or completed Operations (Clearly state all pertinent detail	ls, and give pertinenet dates, inclu	ding estimated date of starting any
proposed work) SEE RULE 203.	1	
P 1 1		
Troposed plugging plan:		n 1 0
I had all that a wat aut time a and	dit to withing	lost from
1. backfill Thole with cuttings and bottom of casing	airl rowining	F C () () () ()
bottom of casing		
2 set analog of to 1	401	1 /
2. set packer for reement and pour	- cement flug up	to and
2. set packer for Gement and pour within bottom of casing	g ·	
3 6 10-11		
3. Dack III onsing with a things	11 1 1 1 1 1 1 1 1 1	0 /
with cultings an	d dirt to within	y feet
Di Di Di Carrings an	d dirt to within	y feet
3. backfill easing with cuttings an from surface		y feet
From Surface		y feet
From Surface		y feet
From Surface		y feet
From Surface		y feet
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface	ice and pour ce	y feet
From Surface	ice and pour ce	y feet
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface	ice and pour ce	y feet
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface	ice and pour ce	y feet
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface	ice and pour ce rface and allows	y feet
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface 5 back fill with dirt to surface 18. I hereby certify that the information above is type and complete to the best of	nce and pour ce rface and allow s e	y feet ment plug some overflow
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface 5 back fill with dirt to surface 18. I hereby certify that the information above is type and complete to the best of	nce and pour ce rface and allow s e	y feet ment plug some overflow
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface 5 backfill with dirt to surface	nce and pour ce rface and allow s e	y feet ment plug some overflow
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface 5 back fill with dirt to surface 18. I hereby certify that the information above is true and complete to the best of SIGNED Richard Long TITLE Con	nce and pour ce rface and allow s e	Heet ment plug some overflow
4. cut easing 2 feet below surface from 4 feet to 2 feet below surface 5 back fill with dirt to surface 18. I hereby certify that the information above is type and complete to the best of SIGNED Richard Laboratory 17. Con	nce and pour ce rface and allow s e	y feet ment plug some overflow

	·	Adopted 10/1/74
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DISTRIBUTION	P. O. Box 2088, Santa Fe 87501	
File / V		
N. M. B. M.	SUNDRY NOTICES AND REPORTS	C. I. Harta Taylor & Y
U. S. G. S	ON	5. Indicate Type of Lease State Fee
Operator /	GEOTHERMAL RESOURCES WELLS	5.a State Lease No.
Land Office		Private
For Permit —" (Form G-101) for Such	o Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application Proposals.)	
1. Type of well Geothermal Pro	ducer Temp. Observation	7. Unit Agreement Name
Low-Temp Ther 2. Name of Operator	mal L Injection/Disposal L	8. Farm or Lease Name
-	Associates	H.N. Bailey
3. Address of Operator	11380(12/62	9. Well No.
Route 1, Box	1288, Las Cruces, New Mexico 88001	14
4. Location of Well		10. Field and Pool, or Wildcat
Unit Letter	60 Feet From The West Line and 550 Feet From	Wildcat
The MARTH Line Section	n	
The Nection	Township ZTS Range V NiviPM.	
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	111111 GL 3980 Kert	Dona Ana
16. Che	ck Appropriate Box To Indicate Nature of Notice, Report or Other Da	ta
NOTICE OF INT	ENTION TO: SUBSEQUE	NT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON LI REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON L	CHANGE PLANS CASING TEST AND CEMENT JOB	PLUG & ABANDONMENT LJ
PULL OR ALTER CASING L	CHANGE PLANS	L
	OTHER	
OTHER		
17 Describe Proposed or completed	Operations (Clearly state all pertinent details, and give pertinenet dates, incl.	uding estimated date of starting any
proposed work) SEE RULE 203.	operations potentially state was permitted definitions and give permitted duties, men	tung estimated date of starting any
Dwilling ob	0 12 01 2 1 1 1 0 11 01	011-1
Jega	~ G-13-81; completed G-14-81;	size of hole 3 inch o
++-1	depth 25 feet.	,
	The state of the s	
Formation & or	to 10 feet allavium	
, of the contract of the contr	- Old anabiam	-111
. 10	to 25 feet extremely fractured	Pink hyolite
	one: 10 to 25 feet	·
	formation: fractured pink the	20120
~	Λ \	Youre
flow: 40 gpm	(estimated)	. A
Casing: top ofe	et; botrom 10 feet; Diameter 511	neh o
Cement: noi		·
	on above is true and complete to the best of my knowledge and belief.	
() · () -	PYV 0 1 1	- 1 01
SIGNED Tuchard of	Lokse TITLE Consultant	DATE
APPROVED BY Carl	Cllung SENIOR PETROLEUM GEOLOGIST	DATE 7-15-81

San Control of the Co					Adopted 10/1/
NO. OF COPIES REC	EIVED	NEW MEXICO OIL CO	ONSERVATION COMMISSION	V	
DISTRIBUTION	1	P. O. Box 20	088, Santa Fe 875 0 1		
File	1 000				
N.M.B.M.	1			5	. Indicate Type of Lease
U.S.G.S.	1	APPLICATION FOR F	PERMIT TO DRILL, DEEP	FN S	STATE 🗌 FEE 🎉
Operator	ð		THERMAL RESOURCES V		.a State Lease No.
Land-Office BLN	a 1				
			· · · · · · · · · · · · · · · · · · ·		
1a. Type of Work	Drill 😭	Deepen 🗌	Plug Back]	7. Unit Agreement Name
b. Type of Well	Geothermal Produc	er 🗀	Temp Observation		3. Farm or Lease Name
d. Type of wen	Low-Temp Thermal	<u> </u>	Injection/Disposal		H.N. BAILE)
2. Name of Operator	H.N.B	BAILEY		ç	. Well No.
3. Address of Operato	•		vces 880	001	0 Field and Pool, or Wildcat
4. Location of Well	UNIT LETTER	LOCATEDF	EET FROM THE	LINE	
AND 2620 F			21 S RGE. 1 M	NMPM	
					2. County Song Ana
			19. Proposed Depth	19A. Formation	20. Rotary or C.T. ROTARY
21. Elevations (Show	whether DF, RT, etc.)	21A. Kind & Status Plug. B	ond 21B. Drilling Contractor	•	22. Approx. Date Work will start

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
4"	2		500'		

APPROVAL VALID FOR 90 DAYS
PERMIT. EXPIRES UNDERWAY
UNLESS DRILLING UNDERWAY

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

IN ABOVE SPACE DESCRIBE PROPOSED PROG	RAM: If proposal is to deepen or plug t	back, give data on present produ	uctive zone and proposed new productive
zone. Give plowout preventer program, if any.			

Signed — H Suby Title Owner Opena Tor Date 5-3-81 (This space for State Use)	
(This space for State Use)	
APPROVED BY Carl Ulway TITLE SENIOR PETROLEUM GEOLOGIST DATE 5/25/81 CONDITIONS OF APPROVAL, IF ANY:	



NEW MEXICO OIL 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 distances must be from the outer boundaries of the Section. Lease Operator IN. BAILEY Dong Ana Actual Footage Location of Well: feet from the feet from the Dedicated Acreage: Ground Level Elev. Producing Formation Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownersip is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation_ ☐ Yes ☐ No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Name, N. BAILEY 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. 330 660 90 1320 1650 1980 2310 26.40 2000 1500 1000 500