



**FIREMAN'S FUND
INSURANCE COMPANIES**

**SURETY BOND
INCREASE OR DECREASE PENALTY RIDER**

Premium \$ _____

Description of Bond Geothermal Resources Exploration Blanket Bond Bond No. 111 1914 3680

Know all men by these present that we, True Geothermal Energy Company
P. O. Box 2360, Casper, WY 32602, Principal,
and Fireman's Fund Insurance Company, Surety,
in favor of Hawaii Department of Land and Natural Resources, Obligee,
do hereby, jointly and severally, change the penal amount of this bond from Two hundred fifty thousand and 00/100 - - -
- - - - - dollars (\$ 250,000.00*) to
One hundred fifty thousand and 00/100 - - - - - dollars (\$ 150,000.00*),
effective from the 27th day of October, 19 92.

The continuity of coverage under said bond subject to changes in penalty shall not be impaired hereby, provided that the aggregate liability of the said Principal and Surety shall not exceed the amount of liability assumed at the time the act and/or acts of default were committed and in no event shall such liability exceed the larger of the above mentioned sums.

Signed and sealed this 23rd day of October, 19 92.

ACCEPTED:

The above is hereby agreed to and accepted

By: _____
OBLIGEE
By: _____
TITLE
Attest: _____
TITLE

TRUE GEOTHERMAL ENERGY COMPANY
PRINCIPAL
By: [Signature]
H.A. True, III, Partner TITLE
FIREMAN'S FUND INSURANCE COMPANY
SURETY
By: [Signature]
June E. Emerson ATTORNEY IN FACT

360717-4-78

[Handwritten notes and signatures]

GENERAL
POWER OF
ATTORNEY

FIREMAN'S FUND INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That FIREMAN'S FUND INSURANCE COMPANY, a Corporation duly organized and existing under the laws of the State of California, and having its principal office in the City and County of San Francisco, in said State, has made, constituted and appointed, and does by these presents make, constitute and appoint

R. N. BARNARD, W. N. BARNARD, DANIEL R. KELLY, JUNE E. EMERSON and JAMES L. GWIN
jointly or severally

its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver any and all bonds, undertakings, recognizances or other written obligations in the nature thereof -----

and to bind the Corporation thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Corporation and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises.

This power of attorney is granted pursuant to Article VIII, Section 30 and 31 of By-laws of FIREMAN'S FUND INSURANCE COMPANY now in full force and effect.

"Article VIII, Appointment and Authority Assistant secretaries, and Attorney-in-Fact and Agents to accept Legal Process and Make Appearances.

Section 30, Appointment. The Chairman of the Board of Directors, the President, any Vice-President or any other person authorized by the Board of Directors, the Chairman of the Board of Directors, the President or any Vice-President, may, from time to time, appoint Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation and Agents to accept legal process and make appearances for and on behalf of the Corporation.

Section 31, Authority. The Authority of such Resident Assistant Secretaries, Attorneys-in-Fact, and Agents shall be as prescribed in the instrument evidencing their appointment, and any such appointment and all authority granted thereby may be revoked at any time by the Board of Directors or by any person empowered to make such appointment."

This power of attorney is signed and sealed under and by the authority of the following Resolution adopted by the Board of Directors of FIREMAN'S FUND INSURANCE COMPANY at a meeting duly called and held on the 15th day of July, 1966, and said Resolution has not been amended or repealed:

"RESOLVED, that the signature of any Vice-President, Assistant Secretary, and Resident Assistant Secretary of this Corporation, and the seal of this Corporation may be affixed or printed on any power of attorney, on any revocation of any power of attorney, or on any certificate relating thereto, by facsimile, and any power of attorney, any revocation of any power of attorney, or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Corporation."

IN WITNESS WHEREOF, FIREMAN'S FUND INSURANCE COMPANY has caused these presents to be signed by its Vice-President,

and its corporate seal to be hereunto affixed this 22nd day of March, 1982.



FIREMAN'S FUND INSURANCE COMPANY

By Richard Williams
Vice-President

STATE OF CALIFORNIA,

CITY AND COUNTY OF SAN FRANCISCO

} ss.

On this 22nd day of March, 1982, before me personally came Richard Williams to me known, who, being by me duly sworn, did depose and say: that he is Vice-President of FIREMAN'S FUND INSURANCE COMPANY, the Corporation described in and which executed the above instrument; that he knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Corporation and that he signed his name thereto by like order.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year herein first above written.



Susie K. Gilbert

Notary Public

CERTIFICATE

STATE OF CALIFORNIA,

CITY AND COUNTY OF SAN FRANCISCO

} ss.

I, the undersigned, Resident Assistant Secretary of FIREMAN'S FUND INSURANCE COMPANY, a CALIFORNIA Corporation, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore that Article VIII, Sections 30 and 31 of the By-laws of the Corporation, and the Resolution of the Board of Directors, set forth in the Power of Attorney, are now in force.

Signed and sealed at the City and County of San Francisco. Dated the 23rd day of October, 1992.



Leatha E. Anstey
Resident Assistant Secretary

Re Mege D R A F T

H. A. True, III
Managing Partner
True Geothermal Energy Company
Central Pacific Plaza, Suite 868
220 South King Street
Honolulu, Hawaii 96813

October 22, 1992

SUBJECT: WRITTEN AUTHORIZATION TO CHANGE AMOUNT
OF INDEMNITY BOND ON WELL NO. 1.

Dear Mr. True:

This will inform you of the department's approval of your request to change the amount of your indemnity bond from \$250,000.00 to \$150,000.00 effective immediately.

Section 13-183-68 of the Rules on Leasing and Drilling of Geothermal Resources requires that a \$50,000.00 indemnity bond be filed with the department for any geothermal well drilled by True Geothermal Energy Company. In the alternative, a blanket bond of \$250,000.00 may be taken out for "any number of wells".

Inasmuch, as your project is presently on hold and thus far, only a single well from one drill site has been drilled, the \$150,000.00 amount is more than adequate for the requirement in Section 13-183-68 for a minimum of \$50,000.00 bond.

However, in the event that drilling operations are restarted, the amount of the blanket bond shall be raised to \$250,000.00 prior to drilling commencing. The department shall be notified of the increase in the amount of the bond prior to drilling being conducted.

Should you have any questions please do not hesitate to call me.

Very truly yours,

~~Manabu Tagomori
Chief Engineer~~

Bill P. [Signature]

cc. Mr. Kuroda



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER AND LAND DEVELOPMENT

P. O. BOX 373
HONOLULU, HAWAII 96809

NOV 2 1992

WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

JOHN P. KEPPELER, II
DONA L. HANAIKE

AQUACULTURE DEVELOPMENT
PROGRAM
AQUATIC RESOURCES
CONSERVATION AND
ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
PROGRAM
LAND MANAGEMENT
STATE PARKS
WATER AND LAND DEVELOPMENT

REF:WL-LN

Ms. Patricia Fleege
Insurance Administrator
True Geothermal Energy Company
P. O. Box 2360
Casper, Wyoming 82602

Dear Ms. Fleege:

Subject: Written Authorization to Change Amount
of Indemnity Bond on Well No. 1

This will inform you of the Department of Land and Natural Resources' approval of your request to change the amount of your indemnity bond from \$250,000 to \$150,000 effective immediately.

Section 13-183-68 of the Rules on Leasing and Drilling of Geothermal Resources requires that a \$50,000 indemnity bond be filed with the Department for any geothermal well drilled by True Geothermal Energy Company. In the alternative, a blanket bond of \$250,000 may be taken out for "any number of wells".

Inasmuch as your project is presently on hold and thus far only a single well from one drilling site has been drilled, the \$150,000 amount is more than adequate for the requirement in Section 13-183-68 for a minimum of \$50,000 bond. However, in the event that drilling operations are restarted, the amount of the blanket bond shall be raised to \$250,000 prior to drilling commencing. The Department shall be notified of the increase in the amount of the bond prior to drilling being conducted.

Should you have any questions, please do not hesitate to contact Mr. Manabu Tagomori of our Division of Water and Land Development.

Very truly yours,

WILLIAM W. PATY
Chairperson

cc: Mr. Alan Kawada

FLOOD CONTROL & MINERAL RESOURCE BR/ H
 Division of Water and Land Development

6/92

FROM: _____ DATE: _____ FILE IN: _____

TO: INITIAL: PLEASE: REMARKS:

_____	_____	G. AKITA	_____	See Me
_____	_____	L. Choo	_____	Call
_____	_____	T. Kam	_____	Review & Comment
_____	_____	H. Young	_____	Take Action
_____	_____	S. Yong	_____	Investigate & Report
_____	_____	C.P. Chang	_____	Draft Reply
_____	_____	Y. Xu	_____	Acknowledge Receipt
_____	_____	T. Nakama	_____	Type Draft
_____	_____	J. Swift	_____	Type Final
_____	_____	J. Florez	_____	Xerox _____ copies
_____	_____	M. Tanouye	_____	
_____	_____	C. D'Araujo (file)	_____	

FOR YOUR:

_____	_____	M. TAGOMORI	_____	Approval
_____	_____	L. Nanbu	_____	Signature
_____	_____	L. CHANG	_____	Information
_____	_____	E. LAU	_____	File
_____	_____	A. Monden	_____	
_____	_____	G. Miyashiro	_____	
_____	_____	D. Lee	_____	

REQUESTED BY:

_____ DATE

TRUE GEOTHERMAL ENERGY COMPANY

895 WEST RIVER CROSS ROAD

Phone (307) 237-9301
P.O. Box 2360
Casper, Wyoming
82602

October 27, 1992

92 OCT 28 9:31 AM
DIV. OF WATER &
LAND DEVELOPMENT

RECEIVED

Mr. Manabu Tagomori
Manager & Chief Engineer
Division of Water & Land Development
1151 Punchbowl Street, Room 227
Honolulu, HI 96813

re: Operator Blanket Exploration Bond
Fireman's Fund #1111 914 3680
October 27, 1992

Dear Mr. Tagomori,

Pursuant to your conversation with Allan Kawada, enclosed is the decrease rider for True Geothermal Energy's Operator's Bond from \$250,000 to \$150,000.

Our surety is in need of a letter advising this decrease is acceptable to your department. I believe Allan will contact you regarding this request.

At such time as the bond would need to be increased, we will be happy to comply.

Sincerely,

Patricia Fleege

Patricia Fleege
Insurance Administrator

PF/jmo

enc.

DIVISION OF WATER AND LAND DEVELOPMENT

FROM: _____ DATE: _____ FILE IN: _____

TO: INIT:

PLEASE:

REMARKS:

- ___ M. TAGOMORI
- ___ L. Nanbu
- ___ ~~G. Akita~~
- ___ L. Chang
- ___ E. Lau
- ___ A. Monden
- ___ ~~H. Young~~
- ___ T. Kam
- ___ G. Miyashiro
- ___ D. Lee
- ___ ~~Handwritten name~~
- ___ ~~Handwritten name~~
- ___ ~~Handwritten name~~
- ___ ~~Handwritten name~~
- ___ R. LOUI
- ___ S. Kokubun

- ___ See Me
- ___ Call
- ___ Review & Comment
- ___ Take Action
- ___ Investigate & Report
- ___ Draft Reply
- ___ Acknowledge Receipt
- ___ Type Draft
- ___ Type Final
- ___ Xerox ___ copies
- ___ File

FOR YOUR:

- ___ Approval
- ___ Signature
- ___ Information

TRUE GEOTHERMAL ENERGY COMPANY

CENTRAL PACIFIC PLAZA

92 AUG 19 P 1: 48

Telephone No.: 808-528-3496
FAX No.: 808-526-1772
220 South King Street
Suite 868
Honolulu, HI 96813

T R A N S M I T T A L DIV. OF WATER &
LAND DEVELOPMENT

TO: Mr. Manabu Tagomori
Manager-Chief Engineer
Dept. of Land and Natural Resources
Water and Land Development Division
State of Hawaii
1151 Punchbowl Street
Honolulu, Hawaii 96813

DATE: August 18, 1992

RE: LETTER TO DOH
REAPPLICATION FOR ATC

COPIES	DATE	DESCRIPTION
1	August 18, 1992	LETTER TO BRUCE ANDERSON, PH.D REAPPLICATION FOR AUTHORITY TO CONSTRUCT.

TRUE

TRANSMITTED FOR:

<input checked="" type="checkbox"/> Your Information and Files	<input type="checkbox"/> Your Review and Comment
<input type="checkbox"/> Signature and Return	<input type="checkbox"/> Per Your Request
<input type="checkbox"/> Further Action	<input type="checkbox"/> See Remarks Below

TRUE GEOTHERMAL ENERGY COMPANY

By *Alan G. Kawada*
for Alan G. Kawada

TRUE GEOTHERMAL ENERGY COMPANY

CENTRAL PACIFIC PLAZA

Telephone No.: 808-528-3496
FAX No.: 808-526-1772
220 South King Street
Suite 868
Honolulu, HI 96813

August 18, 1992

Dr. Bruce Anderson
Deputy Director, Department of Health
State of Hawaii
P.O. Box 3378
Honolulu, Hawaii 96801

ATTN: Mr. Paul Aki
Chief, Clean Air Branch

SUBJECT: REAPPLICATION FOR AUTHORITY TO
CONSTRUCT PERMIT, NO. A-815-768
DATED SEPTEMBER 20, 1989.

Dear Dr. Anderson:

The above described permit was issued in September 1989 and a reapplication for extension was submitted to the Department in ~~September 1991~~. ~~As you know,~~ from ~~September 1991~~ up to and including the present time, ~~True Geothermal Energy Company~~ has been unable to operate under the ATC permit because of a moratorium on drilling issued by both the State of Hawaii and County of Hawaii. The circumstances leading to the moratorium were due entirely to the operations of another geothermal company. The causes of and circumstances surrounding the moratorium were entirely outside the fault and control of True Geothermal Energy Company.

Furthermore, in a recent Hawaii Supreme Court decision (March 1992), Pele Defense Fund vs. Lewin, the State of Hawaii ATC permit issuance procedure was struck down by the court. In order to rectify the deficiencies the court found in the new procedure, ambient air quality rules had to be promulgated. During the intervening time, the ATC was found by the court to be void and any operations under the permit were prohibited.

In view of the above stated circumstances, we respectfully request that the ATC permit be extended for another year to continue operations authorized under it.

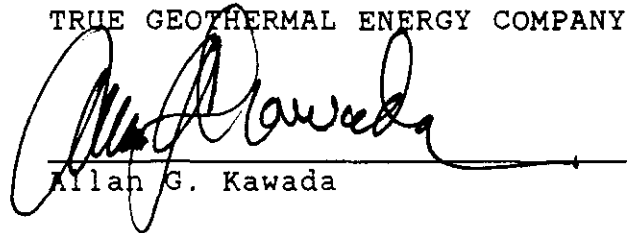
As you know from recent meetings with the Department, True Geothermal Energy Company is preparing our modifications to the ATC permit, to comply with the new changes brought by the new ambient air quality rules. However, pending the processing of that modification, the original ATC must remain in effect.

Dr. Bruce Anderson
August 18, 1992
Page 2

Should you have any questions regarding the above, please
call me at 528-3496.

Very truly yours,

TRUE GEOTHERMAL ENERGY COMPANY

A handwritten signature in black ink, appearing to read "Allan G. Kawada", is written over a horizontal line. The signature is fluid and cursive, with a large initial "A".

AGK/reg

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 17, 1992

Well No. Maunaloa

Contractor _____

DESCRIPTION OF ACTIVITIES

No Activity

Weather Good

Submitted by [Signature]

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF WATER RESOURCE MANAGEMENT
P. O. Box 373
Honolulu, Hawaii 96809

DAILY REPORT

July 13, 1952

Well No. PAW GROUNDMAL

Contractor _____

DESCRIPTION OF ACTIVITIES

NO ACTIVITY

Weather GOOD

Submitted by E. J. Walker



DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

ENERGY DIVISION, 335 MERCHANT ST., RM. 110, HONOLULU, HAWAII 96813 PHONE: (808) 548-6080 FAX: (808) 531-8243

"True"
general correspondence

IONNA WAI
GOVERNOR
MURRAY E. TOY
DEPUTY GOVERNOR
BARBARA KIM STANT
DEPUTY GOVERNOR
RICK BOG
DEPUTY GOVERNOR
TAKESHI YOSHIMIZU
DEPUTY GOVERNOR

FACSIMILE TRANSMITTAL PAGE

PLEASE DELIVER THE FOLLOWING PAGES TO:

NAME: Janet Swift
COMPANY: DLNR - DKRM
FROM: Dean Nakano
DATE: 2/28/92 TIME: 10:45 am

MESSAGE: As requested, copy of State's position
re True Mid Pacific. Note: I do not know
if this was "officially" approved.

Dean

Total number of pages (including Transmittal Page): 2

IF YOU DO NOT RECEIVE ALL OF THE PAGES LEGIBLY,
PLEASE CALL: PHONE (808) 586-2353

Sending Facsimile Number: (808) 586-2536
Receiving Facsimile Number: (808) 587-0219

**STATE'S POSITION ON TRUE/MID-PACIFIC'S
REQUEST TO RESUME DRILLING ACTIVITIES
(WELL PAD #2)**

The State of Hawaii will not authorize True/Mid-Pacific to resume drilling activities unless all of the following items are satisfied:

1. Receive approvals from the County of Hawaii for all necessary County plans and/or permits, including grubbing and grading permits. Also, reaffirmation of the previously approved Emergency Response Plan.
2. Agree to adhere to State approved guidelines and recommendations made by a technical team to be engaged by the State of Hawaii regarding drilling equipment, techniques, and procedures. This is to minimize any potential adverse safety and health impacts related to drilling activities. The technical team will review and make appropriate recommendations concerning previously approved plans and permits such as the Plan of Operation, the Conservation District Use Permit's decision and order, and the Authority to Construct Permit, relative to drilling operations and procedures. The technical team will also scrutinize the yet to be submitted Geothermal Well Drilling Permit application prior to DLNR making its decision on the drilling permit request.
3. Agree to cooperate with regulatory agencies recognizing that True/Mid-Pacific will be subjected to monitoring that is to be at least as intensive and extensive as that required for PGV.
4. Agree that drilling activities, including grubbing and grading, shall not commence before November 1, 1991, or until PGV is granted permission to resume drilling activities, whichever occurs first. Such a timetable will allow regulatory agencies to put in place necessary enforcement and monitoring mechanisms, and also allow the PGV and True/Mid-Pacific projects to be subjected to similar degrees of control.

The above four items have been agreed to by the Department of Health, Department of Land and Natural Resources, and the Department of Business, Economic Development, and Tourism, serving in a coordinative role.

TRUE GEOTHERMAL ENERGY COMPANY

CENTRAL PACIFIC PLAZA

Telephone No.: 808-528-3496
FAX No.: 808-526-1772
220 South King Street
Suite 868
Honolulu, HI 96813

F A X T R A N S M I T T A L

DATE: February 25, 1992 TIME: 2:50 PM
FROM: Allan G. Kawada FAX NO. 808-526-1772

TO:
FAX NO: 587-0219
COMPANY: State of Hawaii | Dept. of Land & Natural Resources
ATTN: Mr. Manabu Tagomori

TRUE

RE: LETTER DATED FEB 24, 1992 - CHANGE OF
GUARD STATION

NUMBER OF PAGES (Including this page): 3

REMARKS: Original will follow in the mail.

Please contact (808) 528-3496 if you did not receive all pages.

TRUE GEOTHERMAL ENERGY COMPANY

CENTRAL PACIFIC PLAZA

Telephone No.: 808-526-3496
FAX No.: 808-526-1772
220 South King Street
Suite 808
Honolulu, HI 96813

February 24, 1992

Mr. Manabu Tagomori
Deputy Director
Department of Land and Natural Resources
State of Hawaii
1151 Punchbowl Street, Room 227
Honolulu, Hawaii 96813

SUBJECT: CHANGE OF GUARD STATION

Dear Mr. Tagomori:

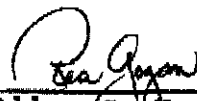
This is to inform you that as of today at 1800 hours, the guard station at the beginning of the access road (near the boundary of Campbell's property line) has been moved to the area of drill site number one. The guard station at the drill site will be maintained 24 hours a day, seven days a week and will regulate entry to the drill site.

The change was made in order to consolidate operations to the drill site. For your information, the gate and chain link fence that is located at the entrance of the access road will be chained and locked 24 hours a day and access into the site by persons not having an access key will need to coordinate with Gary Stull or Gary Dahl of True Geothermal Energy Company. They can be reached at 969-7738. If persons at our Honolulu offices would like to obtain an access key, please contact Gary Stull, Gary Dahl or myself so you may enter at anytime.

Should you have any questions please give me a call at 528-3496.

Very truly yours,

TRUE GEOTHERMAL ENERGY COMPANY


Allan G. Kawada

AGK/reg

TRUE GEOTHERMAL ENERGY COMPANY

CENTRAL PACIFIC PLAZA

Telephone No.: 808-528-3496
FAX No.: 808-526-1772
220 South King Street
Suite 668
Honolulu, HI 96813

February 24, 1992

Bruce S. Anderson, Ph.D.
Deputy Director, Dept. of Health
Environmental Health Administration
Kinau Hale
1250 Punchbowl Street
Honolulu, Hawaii 96813

ATTN: Mr. Wilfred Nagamine

SUBJECT: CHANGE OF GUARD STATION

Dear Mr. Anderson:

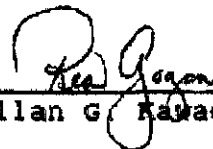
This is to inform you as of today at 1800 hours, the guard station at the beginning of the access road (near the boundary of Campbell Estates property line) has been moved to the area of drill site number one. The guard station at the old site will be maintained 24 hours a day, seven days a week and will regulate entry to the drill site.

The change was made in order to consolidate operations to the drill site. For your information, the gate and chain-link fence that is located at the entrance of the access road will be chained and locked 24 hours a day and access into the drill site by persons not having an access key will be denied. Coordinate with Gary Stull or Gary Dahl of True Geothermal Energy Company, they can be reached at 969-7738. If personnel in your Hilo or Honolulu offices would like to obtain an access key, please contact Gary Stull, Gary Dahl or myself so you may enter at anytime.

Should you have any questions please give me a call at 528-3496.

Very truly yours,

TRUE GEOTHERMAL ENERGY COMPANY


for Allan G. Kawada

AGK/reg

"True" general correspondence

JOHN WAIHEE
GOVERNOR OF HAWAII



WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621
HONOLULU, HAWAII 96809

October 17, 1991

DEPUTIES

KEITH W. AHUE
MANABU TAGOMORI
DAN T. KOCHI

AQUACULTURE DEVELOPMENT PROGRAM
AQUATIC RESOURCES CONSERVATION AND ENVIRONMENTAL AFFAIRS
CONSERVATION AND RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE HISTORIC PRESERVATION PROGRAM
LAND MANAGEMENT
STATE PARKS
WATER RESOURCE MANAGEMENT

Mr. Allan G. Kawada
True Geothermal Energy Company
220 South King Street Suite 868
Honolulu, Hawaii 96813

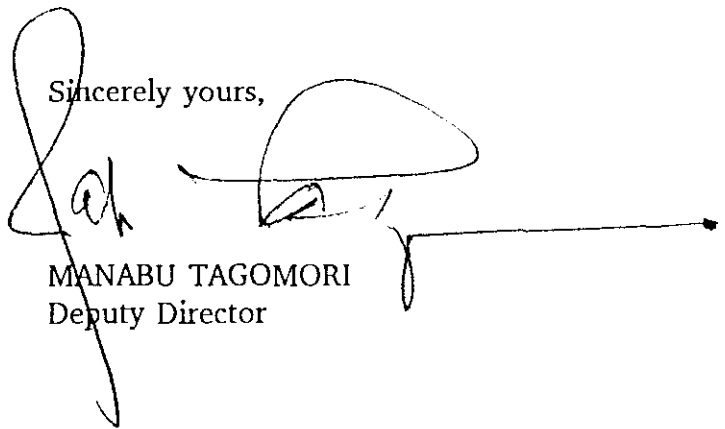
Dear Mr. Kawada:

As a result of the recent uncontrolled venting incident at Puna Geothermal Venture's KS-8 and the independent investigators' recommendations regarding the incident, the State/County Geothermal Task Force adopted a Geothermal Management Plan. The Department of Land and Natural Resources is revising its requirements of geothermal developers accordingly.

Please review the Geothermal Management plan (copy enclosed) and revise your Plan of Operations and any proposed drilling programs and drilling permit requests to reflect each of the items in the Element 1 section of the Geothermal Management Plan.

If you have any questions, please call me at 548-7533.

Sincerely yours,



MANABU TAGOMORI
Deputy Director

JS:ln
Enc.

JOHN WAIHEE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

P. O. BOX 621
HONOLULU, HAWAII 96809

MAY 10 1991

WILLIAM W. PATY, CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES

DEPUTIES

KEITH W. AHUE
MANABU TAGOMORI
DAN T. KOCIII

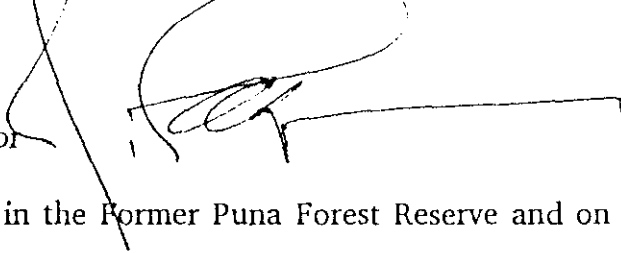
AQUACULTURE DEVELOPMENT
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ENVIRONMENTAL AFFAIRS
CONSERVATION AND
RESOURCES ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
PROGRAM
LAND MANAGEMENT
STATE PARKS
WATER RESOURCE MANAGEMENT

MEMORANDUM

TO: Michael Buck, Administrator
Division of Forestry and Wildlife

FROM: Manabu Tagomori, Deputy Director

SUBJECT: Review of "Survey of Lava Tubes in the Former Puna Forest Reserve and on Adjacent State of Hawaii Lands"



Transmitted for your review and comment is the "draft" archaeological survey report of lava tube systems found near the former Puna Forest Reserve, prepared by the Historic Preservation Division.

Included in the report is a discussion on native invertebrate species observed during the archaeological survey. Please have your staff review this material as it pertains to your area of concern, including any statements made as to the relative importance of the observed invertebrates and the recommendations related to mitigation of potential impacts.

Your expeditious review of the lava tube survey report will be greatly appreciated. Should you have any questions, please contact Gordon Akita, Manager-Chief Engineer, at Ext. 87496.

DN:dk
Enc.