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BONDS



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

December 11, 1980

BRUCE KING
GOVERNOR
LARRY KEHOE
SECRETARY

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

New Mexico State University
Las Cruces, New Mexico

Attention: Assistant Vice President
for Business Affairs

Re: \$10,000 Multiple-Well Geothermal
Bond No. 6358015
New Mexico State University,
Principal, Fireman's Fund
Insurance Co., Surety

Gentlemen:

The Oil Conservation Division hereby approves the
above-captioned geothermal bond effective this date.

Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Oil Conservation Division
Carl Ulvog - Santa Fe

Fireman's Fund Insurance Co.

STATE OF NEW MEXICO
\$10,000 MULTIPLE-WELL GEOTHERMAL EXPLORATORY, DEVELOPMENT,
INJECTION, OR DISPOSAL WELL BOND

Revised 7-1-75

BOND NO. 6358015
 (For Use of Surety Company)

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

KNOW ALL MEN BY THESE PRESENTS:

That NEW MEXICO STATE UNIVERSITY, (An individual) (a partnership)
 (a corporation organized in the State of NEW MEXICO, with its principal office in the city of
LAS CRUCES, State of NEW MEXICO, and authorized to do business in
 the State of New Mexico), as PRINCIPAL, and Fireman's Fund Insurance Co., a

corporation organized and existing under the laws of the State of California, and authorized
 to do business in the State of New Mexico with duly appointed resident agent licensed in the State of New Mexico to
 execute this bond on behalf of the surety company, as SURETY, are held firmly bound unto the State of New Mexico,
 for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Chapter 272, Laws of 1975, in
 the sum of Ten Thousand (\$10,000.00) Dollars lawful money of the United States, for the payment of which, well and
 truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and
 severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases with the
 State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases on lands
 patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or
 may commence the drilling of wells to prospect for and produce geothermal resources, or does own or may acquire, own
 or operate such wells, or such wells started by others on land embraced in said State geothermal resources leases, and on
 lands patented by the United States of America to private individuals, and on lands otherwise owned by private
 individuals, the identification and location of said wells being:

Lease	Well Number	Unit Letter	Section	Township	Range
NMSU 100' well	TG-3	J	14	T29S	R8W
NMSU 1000' well	DT-4	J	14	T29S	R8W

(NOTE: A maximum of FIVE wells may be drilled or acquired under this bond. If the identification and location of all
 of the wells is not known at the time of filing this bond with the Commission, the identification and location may be
 furnished by supplemental rider or riders to this bond.)

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or
 any of them, shall plug all of said wells 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.

New Mexico State University
PRINCIPAL

Fireman's Fund Insurance Co.
SURETY

Las Cruces, New Mexico
Address

San Francisco, Calif.
Address

By [Signature]
Signature

By [Signature]
R. R. Rollings Attorney-in-Fact

Assistant Vice President for Business Affairs
Title

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

(Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:

New Mexico Resident Agent

Address

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF New Mexico)
COUNTY OF Dona Ana) ss.

On this 5th day of December, 1980, before me personally appeared Richard J. Wells, to me personally known who, being by me duly sworn, did say that he is Asst. Vice President for Business Affairs of New Mexico State University and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

11-3-82
Sarah H. Davenport
Notary Public

My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Dona Ana) ss.

On this 1st day of December, 1980, before me appeared R. R. Rollings, to me personally known, who, being by me duly sworn, did say that he is Attorney in fact of Fireman's Fund Insurance Co. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Jayce Coogler
Notary Public

6/7/84
My Commission expires _____

(Note: Corporate surety attach power of attorney.)

APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By [Signature]

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

Name _____
 Street Address _____
 City State Zip _____

**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. R. ROLLINGS-----

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 adopted on the 19th day of November, 1965, and now in full force and effect.

Article VIII, Appointment and Authority of Resident 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 that 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 21st day of May, 19 75



FIREMAN'S FUND INSURANCE COMPANY

By James H. Wells
 JAMES H. WELLS, Vice-President

STATE OF CALIFORNIA, }
 CITY AND COUNTY OF SAN FRANCISCO } ss.

On this 21st day of May, 19 75, before me personally came James H. Wells, 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.



H. Grady Newberry
 H. GRADY NEWBERRY, Notary Public

CERTIFICATE

STATE OF CALIFORNIA, }
 CITY AND COUNTY OF SAN FRANCISCO } ss.

I, the undersigned, 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 1st day of December, 19 75



Winifred H. Browne
 WINIFRED H. BROWNE, Assistant Secretary

STATE OF NEW MEXICO
 \$10,000 MULTIPLE-WELL GEOTHERMAL EXPLORATORY, DEVELOPMENT,
 INJECTION, OR DISPOSAL WELL BOND

Revised 7-1-75

BOND NO. 6358015
 (For Use of Surety Company)

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

KNOW ALL MEN BY THESE PRESENTS:

That NEW MEXICO STATE UNIVERSITY, (An individual) (a partnership)
 (a corporation organized in the State of NEW MEXICO, with its principal office in the city of
LAS CRUCES, State of NEW MEXICO, and authorized to do business in
 the State of New Mexico), as PRINCIPAL, and Fireman's Fund Insurance Co., a
 corporation organized and existing under the laws of the State of California, and authorized
 to do business in the State of New Mexico with duly appointed resident agent licensed in the State of New Mexico to
 execute this bond on behalf of the surety company, as SURETY, are held firmly bound unto the State of New Mexico,
 for the use and benefit of the Oil Conservation Commission of New Mexico pursuant to Chapter 272, Laws of 1975, in
 the sum of Ten Thousand (\$10,000.00) Dollars lawful money of the United States, for the payment of which, well and
 truly to be made, said PRINCIPAL and SURETY hereby bind themselves, their successors and assigns, jointly and
 severally, firmly by these presents.

The conditions of this obligation are such that:

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases with the
 State of New Mexico; and

WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases on lands
 patented by the United States of America to private individuals, and on lands otherwise owned by private individuals; and

WHEREAS, The above principal, individually, or in association with one or more other parties, has commenced or
 may commence the drilling of wells to prospect for and produce geothermal resources, or does own or may acquire, own
 or operate such wells, or such wells started by others on land embraced in said State geothermal resources leases, and on
 lands patented by the United States of America to private individuals, and on lands otherwise owned by private
 individuals, the identification and location of said wells being:

Lease	Well Number	Unit Letter	Section	Township	Range
NMSU 100' well	TG-3	J	14	T29S	R8W
NMSU 1000' well	DT-4	J	14	T29S	R8W

(NOTE: A maximum of FIVE wells may be drilled or acquired under this bond. If the identification and location of all
 of the wells is not known at the time of filing this bond with the Commission, the identification and location may be
 furnished by supplemental rider or riders to this bond.)

NOW, THEREFORE, If the above bounden principal and surety or either of them or their successors or assigns, or
 any of them, shall plug all of said wells 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.

RECORDED

GEOTHERMAL

New Mexico State University
PRINCIPAL
Las Cruces, New Mexico
Address

Fireman's Fund Insurance Co.
SURETY
San Francisco, Calif.
Address

By [Signature]
Signature

By [Signature]
R. R. Rollings Attorney-in-Fact

Assistant Vice President for Business Affairs
Title

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

(Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:

New Mexico Resident Agent

Address

ACKNOWLEDGMENT FORM FOR NATURAL PERSONS

STATE OF _____)
COUNTY OF _____) ss.

On this _____ day of _____, 19____, before me personally appeared _____, to me known to be the person (persons) described in and who executed the foregoing instrument and acknowledged that he (they) executed the same as his (their) free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATION

STATE OF New Mexico)
COUNTY OF Dona Ana) ss.

On this 5th day of December, 1980, before me personally appeared Richard J. Wells, to me personally known who, being by me duly sworn, did say that he is Asst. Vice President for Business Affairs of New Mexico State University and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

11-3-82

[Signature]
Notary Public

My Commission expires _____

ACKNOWLEDGMENT FORM FOR CORPORATE SURETY

STATE OF New Mexico)
COUNTY OF Dona Ana) ss.

On this 1st day of December, 1980, before me appeared R. R. Rollings, to me personally known, who, being by me duly sworn, did say that he is Attorney in fact of Fireman's Fund Insurance Co. and that the foregoing instrument was signed and sealed on behalf of said corporation by authority of its board of directors, and acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

6/7/84

[Signature]
Notary Public

My Commission expires _____

(Note: Corporate surety attach power of attorney.)

APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

AND WHEN RECORDED MAIL TO

no []
street []
address []
to []

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. R. ROLLINGS-----

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 adopted on the 19th day of November, 1965, and now in full force and effect.

Article VIII. Appointment and Authority of Resident 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.

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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 that 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."

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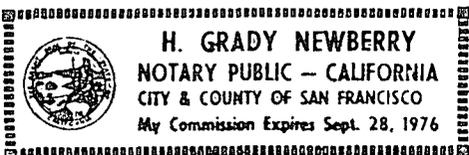
FIREMAN'S FUND INSURANCE COMPANY

By James H. Wells
JAMES H. WELLS, Vice-President

STATE OF CALIFORNIA, }
CITY AND COUNTY OF SAN FRANCISCO } ss.

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



H. Grady Newberry
H. GRADY NEWBERRY, Notary Public

CERTIFICATE

STATE OF CALIFORNIA, }
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Signed and sealed at the City and County of San Francisco. Dated the 1st day of December, 1975



Winifred H. Browne
WINIFRED H. BROWNE, Assistant Secretary

STATE OF NEW MEXICO
 \$10,000 MULTIPLE—WELL GEOTHERMAL EXPLORATORY, DEVELOPMENT,
 INJECTION, OR DISPOSAL WELL BOND

Revised 7-1-75

BOND NO. 6358015
 (For Use of Surety Company)

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

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WHEREAS, The above principal has heretofore or may hereafter enter into geothermal resources leases on lands
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Lease	Well Number	Unit Letter	Section	Township	Range
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New Mexico State University
PRINCIPAL
Las Cruces, New Mexico
Address

Fireman's Fund Insurance Co.
SURETY
San Francisco, Calif.
Address

By [Signature]
Signature

By [Signature]
R. R. Rollings
Attorney-in-Fact

Assistant Vice President for Business Affairs
Title

(Note: Principal, if corporation, affix corporate seal here.)

(Note: Corporate surety affix corporate seal here.)

(Note: If corporate surety executes this bond by an attorney-in-fact not in New Mexico, the resident New Mexico agent shall countersign here below.)

Countersigned by:

New Mexico Resident Agent

Address

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COUNTY OF _____) ss.

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IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

Notary Public

My Commission expires _____

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11-3-82

[Signature]
Notary Public

My Commission expires _____

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IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this certificate first above written.

6/7/84

[Signature]
Notary Public

My Commission expires _____

(Note: Corporate surety attach power of attorney.)

APPROVED BY:
OIL CONSERVATION COMMISSION OF NEW MEXICO

By _____

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL TO

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get
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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. R. ROLLINGS-----

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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.

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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 that 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 21st day of May, 1975



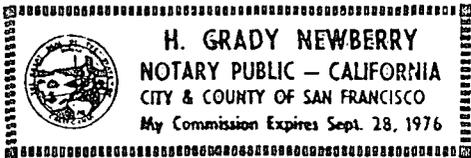
FIREMAN'S FUND INSURANCE COMPANY

By James H. Wells
JAMES H. WELLS, Vice-President

STATE OF CALIFORNIA, }
CITY AND COUNTY OF SAN FRANCISCO } ss.

On this 21st day of May, 1975, before me personally came James H. Wells, 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 each 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.



H. Grady Newberry
H. GRADY NEWBERRY, Notary Public

CERTIFICATE

STATE OF CALIFORNIA, }
CITY AND COUNTY OF SAN FRANCISCO } ss.

I, the undersigned, 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 1st day of December, 1975



Winifred H. Browne
WINIFRED H. BROWNE, Assistant Secretary