OMMONWEALTH OF GENERAL OF SECRETARY OF STATE

FRANCES JONES MILLS Secretary



FRANKFORT. KENTUCKY

CERTIFICATE OF AUTHORITY OF

GEOCHEMICAL SUR	VEYS, IN	IC.
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I, FRANCES JONES MILLS, Secretary of State of the Commonwealth of Kentucky, do hereby certify that duplicate originals of an application of

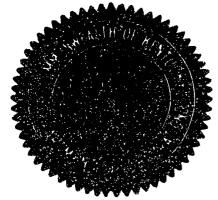
GEOCHEMICAL SURVEYS, INC.

NEW YORK, N. Y. 10161

for a Certificate of Authority to transact business in this Commonwealth, duly signed and verified pursuant to the Provisions of Kentucky Revised Statutes Chapter 271A have been received in this office and comply to said statutes.

Accordingly, as Secretary of State, and by virtue of the authority vested in me by law, I do hereby issue this Certificate of Authority to transact business in this Commonwealth under the name of

GEOCHEMICAL SURVEYS, INC.



SECRETARY OF STATE

Witness my official signature and seal of office this _____ at Frankfort, Kentucky. day of .

ASSISTANT SECRETARY OF STATE

OFFICE OF SECRETARY OF STATE

ORIGINAL COPY FILEDFARIANCIER CHONES MILLS SECRETARY OF STATE OF SHINE WORKEN FRANKFORT, NEMTUCKY



RANKI KENTUCKY COMMONWEALTH FRANKFORTOCT

OCT 14 1982

APPLICATION FOR

CERTIFICATE OF AUTHORITY

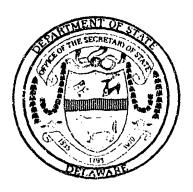
to the provisions of Chapter 271A of the Kentucky Revised Statutes, the undersigned corporation hereby applies for a Certificate of Authority to transact business in the state of Kentucky and for that purpose submits the following Commonwealth of Kentucky statement: Geochemical Surveys, Inc. (a Delaware Corp. First: Geochemical Surveys, Inc. Second: The name to be used in the state of Kentucky Third: State or country of incorporation Delaware , Date of incorporation____ December 16, 1975 Fourth: perpetual existence and duration of incorporation ___ Address of principal office in the state or country of incorporation CT CORP,; C/O P.O. Fifth: Grand Central Station; NEW YORK, N.Y. 10161 Address of proposed registered office in Kentucky C.T. Corp.: C/O P.O. Box Sixth: Grand Central Station: NEW YORK, N.Y. 10161 and name of registered agent in Kentucky at the same address ... The purpose or purposes which said corporation intends to transact business in the state of Kentucky Seventh: Drilling and Operating Oil Wells The names and addresses of all the corporate directors and officers are as follows. Attach separate sheet if Eighth: more space is needed.

William Duchscherer, Jr. President 2505 Turtle Creek Blvd; Dallas, TX. Richard A. Bird Vice-President Rt,5:Union Hill Rd,:Canton, GA. James P. McGinnis Sec. - Treas. 2505 Turtle Creek Blvd: Dallas, TX.



State of DELAWARE

Office of SECRETARY OF STATE



Glenn C. Kenton, Secretary of State

BY:

September 24, 1982

CERTIFICATE OF OWNERSHIP AND MERGER MERGING GEOCHEMICAL SURVEYS, INC. INTO GEOCHEMICAL SURVEYS OF TEXAS, INC.

GEOCHEMICAL SURVEYS OF TEXAS, INC., a corporation organized and existing under the laws of Delaware,

DOES HEREBY CERTIFY:

FIRST: That this Corporation was incorporated on the 17th day of December, 1975, pursuant to the General Corporations 'aws of the State of Delaware, the provisions of which permit the merger of a subsidiary corporation of another state into a parent corporation organized and existing under the laws of said state.

SECOND: That this corporation owns all of the outstanding shares (of each class) of the stock of GEOCHEMICAL STRVEYS, INC., a corporation incorporated on the 24th day of october, 1969, pursuant to the Business Corporation Act of the State of Texas.

THIRD: That this corporation, by the resolutions of its Board of Directors dated the 19th day of Dacember, 1978, is set forth in Exhibit "A", determined to and did merge into tracif said deckhamical Surveys, Inc., and change its name to "de-ochemical Surveys, Inc.", by the unanimous written consent of its directors, filed with the minutes of the Board of Directors.

FOUNTH: The name of this Corporation from and after the effective date of the merger shall be "GEOCHENICAL SURVEYS, INC.", and Article I of the Certificate of Incorporation of this Corporation as hereby changed to read as follows:

"1, The name of the Corporation is 'Geoghemical Surveys, Inc.'"

IN WITNESS WHEREOF, said Geochemical Surveys of Texas, Inc. has caused this certificate to be signed by Michael J. Stasey, its Vice-President, and attested by Betty Heuer, its Assistant Secretary, this Land day of December, 1978.

GEOCHEMICAL SURVEYS OF TEXAS, INC.

MICHAEL J. STABLY, VicePresident

ATTLST

BITTY HEURA, Assistant Secre-

THE STATE OF TEXAS 5
COUNTY OF DALLAS 5

SEFORE ME, the undersigned authority, personally inpuared MICHAEL J. STASEY, Vice-President of GEOCHEMICAL JUNCEYS OF TEXAS, INC., a Delaware corporation, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same as the act and deed of the said cor—tion, for the purposes and in the capacity therein stated.

GIVEN UNDER MY HAND AND STAL OF OFFICE on this the

Notary Public in and

My comingion Expires

EXHIBIT "A"

Resolutions of the Board of Directors of Geochemical Surveys of Texas, Inc., dated December 19, 1978, adopted by unanimous consent of all directors.

RESOLVED: That GEOCHEMICAL SURVEYS OF TEXAS, INC., merge, and it hereby does marge into itself said GEOCHEMICAL SURVEYS, INC., and assumes all of its obligations; and,

FURTHER RESOLVED: That the merger shall be effective upon the date of filing with the Secretary of State of Delaware.

COUNTY, Delaware, and to do all acts and things whatsoever, which may be in anywise necessary or belaware, which may be in anywise necessary or broper to effect said more, and,

COPTHER RESULVEO: That this corporation change its corporate name by changing corporate of the Cortificate of Incorporation of this Corporation to read as follow:

The name of the Corporation is GE: 11CAL SURVEYS, INC.



State of DELAWARE

Office of SECRETARY OF STATE

I, Glenn C. Kenton, Secretary of State of the State of Delaware
do hereby certify that the attached is a true and correct copy o
Certificate of Incorporation
filed in this office on December 17, 1975



Glenn C Kenton, Serretary of State

BY: Joc.

September 24, 1982

CERTIFICATE OF INCORPORATION

OF

GEOCHRAIC: L SURVEYS OF TEXAS, INC.

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- 1. The name of the corporation is GEOCHEMICAL SURVEYS OF TEXAS, INC.
- 2. The address of its registered office in the State of Delaware is No. 100 West Tenth Street, in the City of Wilsington, County of New Castle. The name of its registered agent at such address is The Corporation Trust Company.
- The nature of the business or purposes to be conducted or prosected is:
- Oil and gas exploration and devel pasht and to eng ge in any lawful act or activity for which corporations may be organized under the General Corporation Law of Delaware.
- the corporation shall have authority to insum is one hundred thousand (100,000) and the par value of each of such shares is one follar (\$1.00) securities in the aggregate to the Hundred Thousand Dollare (\$100,000.00).

multiplied by the number of directors to be elected by his, and he may cast all of such votes for a single director or may distribute them among the number to be voted for, or for any two or more of them as he may see fit.

6A. The name and mailing address of each incormorator is as follows:

KAKE	WATLING ADDRESS
P. A. Pennington	100 West Tenth Street Wilzington, Delegare 19801
W. J. Reif	100 West Tenth Struct Wilmington, Delawaye 19801
M. A. Brzoska	100 West Tenth Street Wilmington, Delsmore 19801

6B. The name and mailing address of each parson, who is to serve as a director until the first annual most.

ing of the stockholders or until a successor is elected and a qualified, is so follows:

MENTIFE CO. CO. No. Womanie		
NAME:	APILIED PLONESS	
Henry C. Curtis	1185 West Commy Drive, E.T. Atlanta, Georgia	
Richard A. Bird	5520 Barris Trail, W.W. Atlanta, Georgie	
William Duchscherer, Jr.	5275 Honey Locust Drive Englawood, Coloredo	
H. Nathan Sears, Jr	145 Landadoune Drive, M.W. Atlanta, Georgia	
James P. NoWinnis	6331 South Hemport Court Englewood, Colorado	

- 7. The corporation is to have perpetual existence.
- Will the books of the corporation may be held within the trace of Delaware, on the by-laws may pro-

to any provision contained in the statutes) outside the State of Delaware at such place or places as may be designated from time to time by the board of directors or in the by-laws of the corporation. Elections of directors need not be by written ballot unless the by-laws of the corporation aball so provide.

9. The corporation reserves the right to amend, alter, change or repeal any provision contained in this certificate of incorporation by an affirmative wote of seventy-rive percent (75%) of all the stock issued and outstanding and entitled to vote.

WE, THE UNDERSIGNED, being each of the incorporators hereinbefore named, for the purpose of forming a corporation pursuant to the General Corporation Law of the
state of Delaware, do make this certific hereby declaring and certifying that this is our act and deed and the
facts herein stated are true, and accordingly have hereunto
set our hands this 17th day of December, 1975.

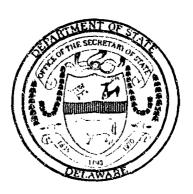
Ba Ling



State of DELAWARE

Office of SECRETARY OF STATE

l, Glenn C. Kenton, Secretary of State of	f the State of Delaware,
do hereby certify that the attached is a t	rue and correct copy of
Certificate of Amendment	
filed in this office on December 14,	1981



,	Menn C. Kenton
	Glenn C. Kenton, Secretary of State
BY:	M. 700
DATE:	September 24, 1982

FILED DEC 14 1961

CERTIFICATE OF INCOPPORATION OF GEOCHEMICAL SURVEYS, INC.

the hem; al Surveys, Inc., a corporation organized and mainting under the General Corporation Law of the State of Celaware (the "Corporation"), does hereby certify:

The amendment to the Corporation's Certificate of Incorporation is hereinbefore amended, set forth in the tollowing Resolution which is approved by the Corporation's foatfor Directors and Stockholders, was duly obtain a cuidance with the provisions of Section 242 or the General Corporation Law of the State of Delaware:

RESOLVED: That the Certificate of Incorporation of the Corporation be amended by deleting Paragraph 4 in its entirety and replacing therefore the following.

A The aggregate number of shares of apital stock that may be issued by the ipitation is 101,000, of which 100,000 thall be "common stock" with a par value of 100 per share (hereinafter referred to as the "Common Stock") and 1,000 shares shall be "lass A Common Stock" each having a par value of 51,000 per share ("Class A Common Stock"). The shares of each class shall and the subject to the tights, preferences and limitations hereinafter set forth.

"(a) Voting Rights. At all meetings of the inducers of shares of the Corporation's apiral stock for the election of Directors, the inducers of the Common Stock and the Class And mount Stock voting together as one class that, he entitled to elect all Directors to the so elected by the Shareholders of the Corporation. Directors elected by the holders of the capital stock shall be subject to removal, with or without cause, by a vote

it the holders of a majority of the capital stock then issued and outstanding (Common Stock and Class A Common Stock voting together as one class). On all other matters which may be voted on by Law or under the By-Laws of the Corporation by its Shareholders, the holders of the Common Stock and the Class A Common Stock, voting together as one class, shall exercise full and exclusive voting rights. Class voting shall not be required nor permitted except to the extent expressly required under the Laws of the State of Delaware. The helders of the Common Stock and the Class A Common Stock, each respectively, shall be entitled to one vote for each share of such stock held of record as of the date specified in the By-Laws for determination of holders of record entitled to vote at any meeting of the Shareholders of the Corporation. No Shareholder of capit stock of the Corporation shall have the tight to cumulate his votes for the election of Directors.

- "(b) Dividends. The holders of the Common Stock and the Class A Common Stock shall be entitled to receive, when and as declared by the Board of Directors, out of the surplus of the Corporation or other funds legally available therefor, dividends in such amount and on such dates as shall be determined by the Board of Directors of the Corporation. Dividends shall be declared and paid equally to the holders of all shares of the Company's capital stock without regard to class.
- "(c) Denial of Freemptive Rights. No shareholder of any class of the capital stock of the Corporation shall have preemptive or preferential rights of subscription to or purchase of:
- "(1) shares of the same class or any other class of the Corporation's capital stock, whether now or hereafter authorized; or
- "(11) any obligations convertible into shares of the same class or any other class of the Corporation's capital stock: or

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- "().i) any obligation with cights. warranth or similar provisions entitling the holder thereof to convert such security into, or acquire shares of the same class or any other class of the Corporation's capital stock. The Board of Directors may issue shares of the capital stock of the Corporation, abligations, options, warrants or other securities convertible into such shares or obligations or other securities with lights or warrants to such persons, for such price and upon such terms and conditions as the Board of Directors, in its sole discretion, may determine; provided always, that no capital stock shall be issued for less than its par value or for any consideration unauthorized by law.
- "(d) Liquidation. In the event is liquidation, dissolution or winding up of the Corporation, the holders of the Class A common Stock shall, as a class and in the appreciate be entitled to receive 15.04083% of the absets of the Corporation remaining after payment of all of the Corporation's defin and other obligations and which are distributed to the holders of its Capital Stork, and the holders of the Common Stock thair, as a class and in the aggregate, be entitled to receive all of the assets of the Corporation remaining for distribution to Shareholders."
- IN WITNESS WHEREOF, Geochemical Surveys, Inc., has auned this Certificate to be signed by William Duchscherer,

Same of the same

n every thin HO day of December 1, 1981

GEOCHEMICAL SURVEYS, INC.

William Duchsherer, Jr.

ATTEST:

James F. McGin.

GEOCHEMICAL SURVEYS, INC.

2505 TURTLE CREEK BOULEVARD DALLAS, TEXAS 75219

MAILING ADDRESS P.O. BOX 190508 TELEPHONE (214) 521-6148

October 12, 1982

RECEIVED

OCT 14 1982

COMMORWEALTH OF KENTUCKY

Dear Ms. Mills;

Frances Jones Mills

Commonwealth of KY.

Frankfort, KY. 40601

Office of Secretary of State

In reply to your request letter of October 8, 1982, please note that our company uses the CT CORP. as a registered agent for the various states we do business in. If there is a problem with this, please let me know. It appears to be a fairly common way of doing business in the Oil & Gas Industry. Thank you.

Cordially,

Aulie Duchscherer Land & Production

jdd/encl.