

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| | |
|--|-----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | MERGER |
| EFFECTIVE DATE: | 12/14/1999 |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NUMAR Corporation | 12/14/1999 |
| RECEIVING PARTY DATA | |
| Name: | Halliburton Energy Services, Inc. |
| Street Address: | 4100 Clinton Drive |
| City: | Houston |
| State/Country: | TEXAS |
| Postal Code: | 77020 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Patent Number: | 5936405 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)755-7306 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | 212-326-3939 |
| Email: | dkheyfits@jonesday.com |
| Correspondent Name: | Jones Day |
| Address Line 1: | 222 East 41 Street |
| Address Line 2: | Dmitriy Kheyfits |
| Address Line 4: | New York, NEW YORK 10017 |
| ATTORNEY DOCKET NUMBER: | 7420-036 |
| NAME OF SUBMITTER: | Dmitriy Kheyfits |
| Total Attachments: 8 source=Certificate_of_Merger#page1.tif source=Certificate_of_Merger#page2.tif | |

CH \$40.00 5936405

500362828

PATENT
REEL: 019881 FRAME: 0368

source=Certificate_of_Merger#page3.tif
source=Certificate_of_Merger#page4.tif
source=Certificate_of_Merger#page5.tif
source=Certificate_of_Merger#page6.tif
source=Certificate_of_Merger#page7.tif
source=Certificate_of_Merger#page8.tif

HALLIBURTON ENERGY SERVICES, INC.


Certificate of Assistant Secretary

I, the undersigned, being a duly elected, qualified and acting Assistant Secretary of Halliburton Energy Services, Inc., a Delaware corporation (the "Company"), do hereby certify that attached hereto are true and correct copies of the following documents, which have not subsequently been rescinded or modified:

- (1) Certificate of Merger of NUMAR Corporation into Halliburton Energy Services, Inc., as filed with the State of Delaware on December 29, 1999; and
- (2) Articles of Merger and Agreement and Plan of Merger of NUMAR Corporation into Halliburton Energy Services, Inc., as filed with the Commonwealth of Pennsylvania on December 29, 1999.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Company this 28th day of March, 2007.

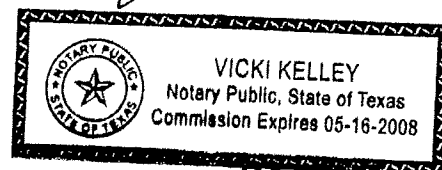
Halliburton Energy Services, Inc.

By: 
Ashley E. Quinn
Assistant Secretary

UNITED STATES OF AMERICA §
STATE OF TEXAS §
COUNTY OF HARRIS §

SUBSCRIBED AND SWORN TO before me, the undersigned Notary Public by Ashley E. Quinn, known to me to be the Assistant Secretary of Halliburton Energy Services, Inc. and who certified that she executed the foregoing instrument for and on behalf of said corporation, this 28th day of March, 2007.


Notary Public, State of TEXAS



PATENT

REEL: 019881 FRAME: 0370

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"NUMAR CORPORATION", A PENNSYLVANIA CORPORATION,

WITH AND INTO "HALLIBURTON ENERGY SERVICES, INC." UNDER THE NAME OF "HALLIBURTON ENERGY SERVICES, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF DECEMBER, A.D. 1999, AT 10:02 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



A handwritten signature in cursive script, reading "Edward J. Freel", is written over a horizontal line.

Edward J. Freel, Secretary of State

0170416 8100M

991568135

AUTHENTICATION: 0172674

DATE: 12-30-99

PATENT
REEL: 019881 FRAME: 0371

**CERTIFICATE OF MERGER
OF
NUMAR CORPORATION
INTO
HALLIBURTON ENERGY SERVICES, INC.**
(Under Section 252 of the General Corporation Law of the State of Delaware)

Halliburton Energy Services, Inc. hereby certifies that:

(1) The name and state of each of the constituent corporations are:

- (a) NUMAR Corporation, a Pennsylvania corporation; and
- (b) Halliburton Energy Services, Inc., a Delaware corporation.

(2) An agreement of merger has been approved, adopted, certified, executed and acknowledged by NUMAR Corporation and by Halliburton Energy Services, Inc. in accordance with the provisions of subsection (c) of Section 252 of the General Corporation Law of the State of Delaware.

(3) The name of the surviving corporation is Halliburton Energy Services, Inc.

(4) The certificate of incorporation of Halliburton Energy Services, Inc. shall be the certificate of incorporation of the surviving corporation.

(5) The surviving corporation is a corporation of the State of Delaware.

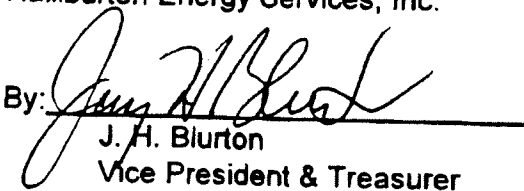
(6) The executed agreement of merger is on file at the offices of Halliburton Energy Services, Inc. at 4100 Clinton Drive, Houston, Texas 77020.

(7) A copy of the agreement of merger will be furnished by Halliburton Energy Services, Inc. on request and without cost, to any stockholder of NUMAR Corporation or Halliburton Energy Services, Inc.

(8) The authorized capital stock of NUMAR Corporation is 10,000 shares of Common Stock, \$1.00 par value.

IN WITNESS WHEREOF, Halliburton Energy Services, Inc. has caused this certificate to be signed by its Vice President and Treasurer on the 14th day of December, 1999.

Halliburton Energy Services, Inc.

By: 
J. H. Blurton
Vice President & Treasurer

| |
|-----------------------|
| Approved |
| Law Department |
| BY: <u>DAF</u> |
| DATE: <u>12/14/99</u> |

Microfilm Number _____

Filed with the Department of State on DEC 29 1999
Kim Fitzgerald

Entity Number 151570

Secretary of the Commonwealth SK

ARTICLES OF MERGER-DOMESTIC BUSINESS CORPORATION

DSCB:15-1926 (Rev 90)

In compliance with the requirements of 15 Pa.C.S. § 1926 (relating to articles of merger or consolidation), the undersigned business corporations, desiring to effect a merger, hereby state that:

1. The name of the corporation surviving the merger is: Halliburton Energy Services, Inc.

2. (Check and complete one of the following):

____ The surviving corporation is a domestic business corporation and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

(a) _____
Number and Street City State Zip County

(b) c/o: _____
Name of Commercial Registered Office Provider County

For a corporation represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the corporation is located for venue and official publication purposes.

☒ The surviving corporation is a qualified foreign business corporation incorporated under the laws of Delaware and the (a) address of its current registered office in this Commonwealth or (b) name of its commercial registered office provider and the county of venue is (the Department is hereby authorized to correct the following information to conform to the records of the Department):

(a) _____
Number and Street City State Zip County

(b) c/o: C. T. Corporation System
Name of Commercial Registered Office Provider Philadelphia
County

For a corporation represented by a commercial registered office provider, the county in (b) shall be deemed the county in which the corporation is located for venue and official publication purposes.

____ The surviving corporation is a nonqualified foreign business corporation incorporated under the laws of _____ and the address of its principal office under the laws of such domiciliary jurisdiction is: _____

Number and Street City State Zip

The name and the address of the registered office in this Commonwealth or name of its commercial registered office provider and the county of venue of each other domestic business corporation and qualified foreign business corporation which is a party to the plan of merger are as follows:

| Name of Corporation | Address of Registered Office or Name of Commercial Registered Office Provider | County |
|---------------------|---|---------|
| NUMAR Corporation | 263 Great Valley Parkway, Malvern, Pennsylvania 19355 | Chester |

(Check, and if appropriate complete, one of the following):

☒ The plan of merger shall be effective upon filing these Articles of Merger in the Department of State.

☐ The plan of merger shall be effective on: _____ at _____
Date Hour

The manner in which the plan of merger was adopted by each domestic corporation is as follows:

Name of Corporation

Manner of Adoption

NUMAR Corporation

Adopted by the board of directors and shareholders pursuant to 15 Pa. C.S. Section 1924(a)

(Strike out this paragraph if no foreign corporation is a party to the merger). The plan was authorized, adopted or approved, as the case may be, by the foreign business corporation (or each of the foreign business corporations) party to the plan in accordance with the laws of the jurisdiction in which it is incorporated.

(Check, and if appropriate complete, one of the following):

☒ The plan of merger is set forth in full in Exhibit A attached hereto and made a part hereof.

☐ Pursuant to 15 Pa.C.S. § 1901 (relating to omission of certain provisions from filed plans) the provisions, if any, of the plan of merger that amend or constitute the operative Articles of Incorporation of the surviving corporation as in effect subsequent to the effective date of the plan are set forth in full in Exhibit A attached hereto and made a part hereof. The full text of the plan of merger is on file at the principal place of business of the surviving corporation, the address of which is:

Number and Street City State Zip County

IN TESTIMONY WHEREOF, the undersigned corporation or each undersigned corporation has caused these Articles of Merger to be signed by a duly authorized officer thereof this 14th day of December, 1999.

Halliburton Energy Services, Inc.

(Name of Corporation)

BY: Jerry H. Blurton
(Signature)

TITLE: Jerry H. Blurton, Vice Pres. & Treasurer

NUMAR Corporation

(Name of Corporation)

BY: Philip N. Longorio
(Signature)

TITLE: Philip N. Longorio, Vice President

**AGREEMENT
AND
PLAN OF MERGER**

Agreement and Plan of Merger (this "Agreement of Merger") made between NUMAR Corporation, a Pennsylvania corporation (hereinafter called the "Merged Corporation"), and Halliburton Energy Services, Inc., a Delaware Corporation, (hereinafter called the "Surviving Corporation").

WHEREAS, the Merged Corporation has an authorized capital stock consisting of 10,000 shares of common stock, par value \$1.00 per share, of which 10,000 shares have been duly issued and are now outstanding, and

WHEREAS, the Surviving Corporation has an authorized capital stock consisting of 1,000 shares of common stock, par value \$2.50 per share, of which 1,000 shares have been duly issued and are now outstanding; and

WHEREAS, the Board of Directors of the Merged Corporation and the Surviving Corporation, respectively, deem it advisable and generally to the advantage and welfare of the two corporate parties and their respective shareholders that the Merged Corporation merge with the Surviving Corporation under and pursuant to the provisions of the Pennsylvania business corporation law and of the General Corporation Law of the State of Delaware.

NOW, THEREFORE, in consideration of the premises and of the mutual agreements herein contained and of the mutual benefits hereby provided, it is agreed by and between the parties hereto as follows:

1. Merger. The Merged Corporation shall be and it hereby is merged into the Surviving Corporation. In accordance with Section 368(a)(1)(A) and Section 332 of the Internal Revenue Code of 1986, as amended, the merger will be characterized as the complete liquidation of the Merged Corporation into the Surviving Corporation.

2. Effective Date. This Agreement of Merger shall become effective immediately upon compliance with the laws of the States of Pennsylvania and Delaware, the time of such effectiveness being hereinafter called the Effective Date.

3. Surviving Corporation. The Surviving Corporation shall survive the merger herein contemplated and shall continue to be governed by the laws of the State of Delaware, but the separate corporate existence of the Merged Corporation shall cease forthwith upon the Effective Date.

4. Authorized Capital. The Authorized capital stock of the Surviving Corporation following the Effective Date shall be 1,000 shares of common stock, par value \$2.50 per share, unless and until the same shall be changed in accordance with the laws of the State of Delaware.

5. Certificate of Incorporation. The Certificate of Incorporation of the Surviving Corporation as it exists on the Effective Date shall be the Certificate of Incorporation of the Surviving Corporation following the Effective Date unless and until the same shall be amended or repealed in accordance with the provisions thereof. Such Certificate of Incorporation shall constitute the Certificate of Incorporation of the Surviving Corporation separate and apart from this Agreement of Merger and may be separately certified as the Certificate of Incorporation of the Surviving Corporation.

6. By-Laws. The By-Laws of the Surviving Corporation as they exist on the Effective Date shall be the By-Laws of the Surviving Corporation following the Effective Date unless and until the same shall be amended or repealed in accordance with the provisions thereof.

7. Board of Directors and Officers. The members of the Board of Directors and the officers of the Surviving Corporation immediately after the Effective Date of the merger shall be those persons who were the members of the Board of Directors and the officers, respectively, of the Surviving Corporation immediately prior to the Effective Date of the merger, and such persons shall serve in such offices, respectively, for the terms provided by law or in the By-Laws, or until their respective successors are elected and qualified.

8. Further Assurance of Title. If at any time the Surviving Corporation shall consider or be advised that any acknowledgments or assurances in law or other similar actions are necessary or desirable in order to acknowledge or confirm in and to the Surviving Corporation any right, title, or interest of the Merged Corporation held immediately prior to the Effective Date, the Merged Corporation and its proper officers and directors shall and will execute and deliver all such acknowledgments or assurances in law and do all things necessary or proper to acknowledge or confirm such right, title, or interest in the Surviving Corporation as shall be necessary to carry out the purposes of this Agreement of Merger, and the Surviving Corporation and the proper officers and directors thereof are fully authorized to take any and all such action in the name of the Merged Corporation or otherwise.

9. Retirement of Organization Stock. Forthwith upon the Effective Date, each of the 10,000 shares of the Common Stock of the Merged Corporation presently issued and outstanding shall be retired, and no shares of Common Stock or other securities of the Surviving Corporation shall be issued in respect thereof.


10. Rights and Liabilities of Surviving Corporation. At and after the Effective Date of the merger, the Surviving Corporation shall succeed to and possess, without further act or deed, all of the estate, rights, privileges, powers, and franchises, both public and private, and all of the property, real, personal, and mixed, of each of the parties hereto; all debts due to the Merged Corporation or whatever account shall be vested in the Surviving Corporation; all claims, demands, property, rights, privileges, powers and franchises and every other interest of either of the parties hereto shall be as effectively the property of the Surviving Corporation as they were of the respective parties hereto; the title to any real estate vested by deed or otherwise in the Merged Corporation shall not revert or be in any way impaired by reason of the merger, but shall be vested in the Surviving Corporation; all rights of creditors and all liens upon any property of either of the parties hereto shall be preserved unimpaired, limited in lien to the property affected by such lien at the Effective Date of the merger; all debts, liabilities, and duties of the respective parties hereto shall thenceforth attach to the Surviving Corporation and

may be enforced against it to the same extent as if such debts, liabilities, and duties had been incurred or contracted by it.

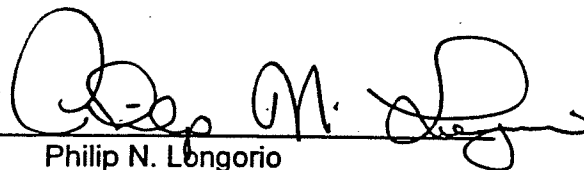
11. Termination. This Agreement of Merger may be terminated and abandoned by action of the Board of Directors of the Surviving Corporation at any time prior to the Effective Date, whether before or after approval by the shareholders of the two corporate parties hereto.

IN WITNESS WHEREOF each of the corporate parties hereto, pursuant to authority duly granted by their respective Board of Directors, has caused this Agreement of Merger to be executed by an authorized officer.

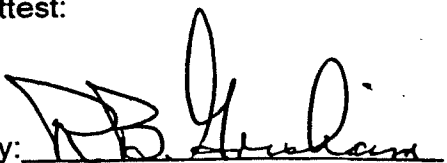
Attest:

By: 
R. B. Grisham
Secretary

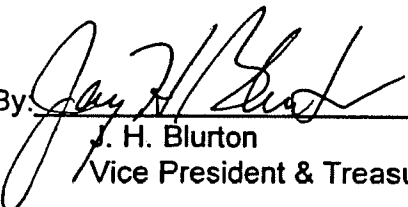
NUMAR Corporation

By: 
Philip N. Longorio
Vice President

Attest:

By: 
R. B. Grisham
Secretary

Halliburton Energy Services, Inc.

By: 
J. H. Blurton
Vice President & Treasurer

| |
|---|
| Approved Law Department BY: <u>DAG</u> DATE: <u>12/14/99</u> |
|---|