

As filed with the Securities and Exchange Commission on August 16, 2001
 Registration No. 333-_____

SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM S-8

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

CHESAPEAKE ENERGY CORPORATION
 (Exact name of registrant as specified in its charter)

OKLAHOMA 73-1395733
 (State of Incorporation) (I.R.S. Employer Identification No.)

6100 NORTH WESTERN AVENUE, OKLAHOMA CITY, OKLAHOMA 73118
 (Address of principal executive offices) (zip code)

CHESAPEAKE ENERGY CORPORATION 2001 STOCK OPTION PLAN
 (Full title of the plan)

AUBREY K. MCCLENDON COPIES TO:
 CHAIRMAN OF THE BOARD AND CONNIE S. STAMETS, ESQ.
 CHIEF EXECUTIVE OFFICER WINSTEAD, SECHREST & MINICK P.C.
 CHESAPEAKE ENERGY CORPORATION A PROFESSIONAL CORPORATION
 6100 NORTH WESTERN AVENUE 5400 RENAISSANCE TOWER
 OKLAHOMA CITY, OKLAHOMA 73118 1201 ELM STREET
 (Name and address for agent for service) DALLAS, TEXAS 75270

(405) 848-8000
 (Telephone number, including area code, of agent for service)

CALCULATION OF REGISTRATION FEE

Title of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Offering Price Per Share	Proposed Maximum Aggregate Offering Price(2)	Amount of Registration Fee(2)
Common Stock, \$.01 par value per share	3,200,000	(2)	\$ 19,146,540.00	\$ 4,786.64

(1) Pursuant to Rule 416, there are registered hereunder such indeterminate number of additional shares as may become issuable upon exercise of the options as a result of the antidilution provisions of the Chesapeake Energy Corporation 2001 Stock Option Plan.

(2) Calculated pursuant to paragraphs (c) and (h) of Rule 457, based on outstanding options to purchase 1,066,000 shares of Common Stock at \$6.11 per share, and with respect to the balance of the shares being registered, the average of the high and low prices of the Common Stock of Chesapeake Energy Corporation on the New York Stock Exchange on August 13, 2001.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

ITEM 1. PLAN INFORMATION.*

ITEM 2. REGISTRANT INFORMATION AND EMPLOYEE PLAN ANNUAL INFORMATION.*

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* Information required by Part I of Form S-8 to be contained in a prospectus meeting the requirements of Section 10(a) of the Securities Act of 1933 is omitted from this Registration Statement in accordance with Rule 428 under the Securities Act of 1933 and the Note to Part I of Form S-8.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

ITEM 3. INCORPORATION OF DOCUMENTS BY REFERENCE.

Chesapeake Energy Corporation (the "Company" or the "Registrant") incorporates by reference into this Registration Statement the following documents filed by the Registrant with the Securities and Exchange Commission:

- (a) The Annual Report on Form 10-K for the fiscal year ended December 31, 2000 as amended by Form 10-K/A filed with the SEC on April 4, 2001;
- (b) The Company's quarterly reports on Form 10-Q for the periods ended March 31 and June 30, 2001;
- (c) The Company's current reports on Form 8-K filed on January 17 and 31, February 6, 13, and 21, March 27 and 29, April 2, 2, 9, 16, 17, and 27, July 17 and 27, and August 13, 2001; and
- (d) The description of our common stock, contained in the registration statement on Form 8-B (No. 001-13726), including the amendment to such description we filed with the SEC on Form 8-K on August 13, 2001 and any other amendments or reports filed for the purpose of updating such description.

All documents filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after the date of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the date of filing of such documents.

ITEM 4. DESCRIPTION OF SECURITIES.

Not applicable. The Company's common stock has been registered under Section 12 of the Exchange Act.

ITEM 5. INTERESTS OF NAMED EXPERTS AND COUNSEL.

Not applicable.

ITEM 6. INDEMNIFICATION OF DIRECTORS AND OFFICERS.

Section 1031 of the Oklahoma General Corporation Act, under which the Company is incorporated, authorizes the indemnification of directors and officers under certain circumstances. Article VIII of the Certificate of Incorporation of the Company and Article VI of the Bylaws of the Company also provide for indemnification of directors and officers under certain circumstances. These provisions, together with the Company's indemnification obligations under individual indemnity

agreements with its directors and officers, may be sufficiently broad to indemnify such persons for liabilities under the Securities Act of 1933, as amended. In addition, the Company maintains insurance which insures its directors and officers against certain liabilities.

ITEM 7. EXEMPTION FROM REGISTRATION CLAIMED.

Not applicable.

ITEM 8. EXHIBITS.

Exhibit Number -----	Description -----
4.1	Restated Certificate of Incorporation of the Registrant. Incorporated herein by reference to Exhibit 3.1 to Registrant's Form 10-Q for the quarter ended June 30, 2001.
4.2	Bylaws, as amended, of the Registrant. Incorporated herein by reference to Exhibit 3.2 to Registrant's Form 10-Q for the quarter ended June 30, 2001.
5.1	Opinion of Winstead Sechrest & Minick P.C. regarding the validity of the securities being registered.
23.1	Consent of PricewaterhouseCoopers LLP as to Registrant.
23.2	Consent of PricewaterhouseCoopers LLP as to Gothic Energy Corporation.
23.3	Consent of Williamson Petroleum Consultants, Inc.
23.4	Consent of Ryder Scott Company L.P.
23.5	Consent of Lee Keeling and Associates, Inc. as to Registrant.
23.6	Consent of Lee Keeling and Associates, Inc. as to Gothic Energy Corporation
23.7	Consent of Winstead Sechrest and Minick P.C. (included as part of Exhibit 5.1.)
24.1	Power of Attorney.
99	Chesapeake Energy Corporation 2001 Stock Option Plan. Incorporated herein by reference to Exhibit B to Registrant's definitive proxy statement for its 2001 annual meeting of shareholders filed April 30, 2001.

ITEM 9. UNDERTAKINGS.

(a) The Registrant hereby undertakes:

- (1) to file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:
 - (i) to include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (ii) to reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;
 - (iii) to include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement;

provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed by the Registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in this Registration Statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered herein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act of 1933 and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act of 1933 and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Oklahoma City, State of Oklahoma on August 16, 2001.

CHESAPEAKE ENERGY CORPORATION

By: /s/ Aubrey K. McClendon

Aubrey K. McClendon
Chairman of the Board and Chief
Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed below by the following persons in the capacities indicated on August 16, 2001.

SIGNATURE
-----TITLE

/s/ Aubrey K. McClendon ----- Aubrey K. McClendon	Chairman of the Board, Chief Executive Officer and Director (Principal Executive Officer)
/s/ Tom L. Ward ----- Tom L. Ward	President, Chief Operating Officer and Director (Principal Executive Officer)
/s/ Marcus C. Rowland ----- Marcus C. Rowland	Executive Vice President and Chief Financial Officer (Principal Financial Officer)
/s/ Michael A. Johnson ----- Michael A. Johnson	Senior Vice President - Accounting (Principal Accounting Officer)
/s/ Edgar F. Heizer, Jr. ----- Edgar F. Heizer, Jr.	Director
/s/ Breene M. Kerr ----- Breene M. Kerr	Director

/s/ Shannon T. Self

Director

Shannon T. Self

/s/ Frederick B. Whittemore

Director

Frederick B. Whittemore

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WINSTEAD SECHREST & MINICK P.C.
5400 Renaissance Tower
1201 Elm Street
Dallas, Texas 75270-2199
214/745-5400 PH
214/745-5390 FAX

August 16, 2001

Chesapeake Energy Corporation
6100 North Western Avenue
Oklahoma City, OK 73118

Re: Chesapeake Energy Corporation 2001 Stock Option Plan

Ladies and Gentlemen:

We have examined the Registration Statement on Form S-8 to be filed by you with the Securities and Exchange Commission in connection with the Chesapeake Energy Corporation 2001 Stock Option Plan (the "Plan"), which Registration Statement covers the offer and sale of shares of common stock, par value \$.01 per share (the "Shares"), of Chesapeake Energy Corporation to be issued by Chesapeake Energy Corporation pursuant to the Plan. We have also examined your minute books and other corporate records, and have made such other investigation as we have deemed necessary in order to render the opinions expressed herein.

Based on the foregoing, we are of the opinion that the Shares, when issued in accordance with the terms of the Plan, will be legally issued, fully paid and nonassessable in accordance with the Oklahoma General Corporation Act.

Consent is hereby given for the inclusion of this opinion as part of the referenced Registration Statement.

Very truly yours,

/s/ WINSTEAD SECHREST & MINICK P.C.
Winstead Sechrest & Minick P.C.

CONSENT OF INDEPENDENT ACCOUNTANTS

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated March 28, 2001 relating to the consolidated financial statements and financial statement schedule of Chesapeake Energy Corporation (the "Company"), which appears in Chesapeake Energy Corporation's Annual Report on Form 10-K/A for the year ended December 31, 2000.

/s/ PRICEWATERHOUSECOOPERS LLP
PricewaterhouseCoopers LLP

Tulsa, Oklahoma
August 14, 2001

CONSENT OF INDEPENDENT ACCOUNTANTS

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated February 26, 2001 relating to the consolidated financial statements of Gothic Energy Corporation, which appears in Chesapeake Energy Corporation's Annual Report on Form 10-K/A for the year ended December 31, 2000.

/s/ PRICEWATERHOUSECOOPERS LLP
PricewaterhouseCoopers LLP

Tulsa, Oklahoma
August 14, 2001

CONSENT OF WILLIAMSON PETROLEUM CONSULTANTS, INC.

As independent oil and gas consultants, Williamson Petroleum Consultants, Inc. hereby consents to the incorporation by reference in this Registration Statement on Form S-8, to be filed with the Securities and Exchange Commission on or about August 15, 2001, of information from our reserve report dated February 20, 2001 entitled, "Evaluation of Oil and Gas Reserves to the Interests of Chesapeake Energy Corporation in Certain Major-Value Properties in the United States, Effective December 31, 2000, for Disclosure to the Securities and Exchange Commission, Utilizing Aries Software Williamson Project 0.8823" and all references to our firm included in or made a part of the Chesapeake Energy Corporation Annual Report on Form 10-K for the year ended December 31, 2000.

/s/ WILLIAMSON PETROLEUM CONSULTANTS, INC.
WILLIAMSON PETROLEUM CONSULTANTS, INC.

Midland, Texas
August 13, 2001

CONSENT OF RYDER SCOTT COMPANY L.P.

As independent oil and gas consultants, Ryder Scott Company L.P., hereby consents to the incorporation by reference in this Registration Statement on Form S-8, to be filed with the Securities and Exchange Commission on or about August 16, 2001, of information from our reserve report dated as of February 2, 2001 and all references to our firm included in or made a part of the Chesapeake Energy Corporation Annual Report on Form 10-K for the year ended December 31, 2000.

/s/ RYDER SCOTT COMPANY, L.P.
RYDER SCOTT COMPANY, L.P.

Houston, Texas
August 16, 2001

CONSENT OF LEE KEELING AND ASSOCIATES, INC.

As independent oil and gas consultants, Lee Keeling and Associates, Inc. hereby consents to the incorporation by reference in this Registration Statement on form S-8, to be filed with the Securities and Exchange Commission on or about August 16, 2001, of information from our reserve report with respect to the oil and gas reserves of Chesapeake Energy Corporation dated as of December 31, 2000 and all reference to our firm included in or made a part of the Chesapeake Energy Corporation Annual Report on Form 10-K for the year ended December 31, 2000.

LEE KEELING AND ASSOCIATES, INC.
by: /s/ KENNETH RENBERG
Kenneth Renberg, Vice President

Tulsa, Oklahoma
August 16, 2001

CONSENT OF LEE KEELING AND ASSOCIATES, INC.

As independent oil and gas consultants, Lee Keeling and Associates, Inc. hereby consents to the incorporation by reference in this Registration Statement on form S-8, to be filed with the Securities and Exchange Commission on or about August 16, 2001, of information from our reserve report with respect to the oil and gas reserves of Gothic Energy Corporation dated as of December 31, 2000 and all reference to our firm included in or made a part of the Chesapeake Energy Corporation Annual Report on Form 10-K for the year ended December 31, 2000.

LEE KEELING AND ASSOCIATES, INC.
by: /s/ KENNETH RENBERG
Kenneth Renberg, Vice President

Tulsa, Oklahoma
August 16, 2001

POWER OF ATTORNEY

We, the undersigned officers and directors of Chesapeake Energy Corporation (hereinafter, the "Company"), hereby severally constitute and appoint Aubrey K. McClendon, Tom L. Ward and Marcus C. Rowland, and each of them, severally, our true and lawful attorneys-in-fact and agents, each with full power to act without the other and with full power of substitution and resubstitution, to sign for us, in our names as officers or directors, or both, of the Company, and file with the Securities and Exchange Commission and any state securities regulatory board or commission any documents relating to the securities offered pursuant to this Registration Statement on Form S-8, including any amendments to this Registration Statement on Form S-8 or otherwise (including post-effective amendments), granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and to perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as each of us might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their substitutes, may lawfully do or cause to be done by virtue hereof.

DATED this 16th day of August, 2001

/s/ Aubrey K. McClendon

Aubrey K. McClendon, Chairman of the
Board and Chief Executive
Officer (Principal Executive Officer)

/s/ Tom L. Ward

Tom L. Ward, President, Chief
Operating Officer and Director
(Principal Executive Officer)

/s/ Marcus C. Rowland

Marcus C. Rowland, Executive
Vice President and Chief
Financial Officer (Principal
Financial Officer)

/s/ Michael A. Johnson

Michael A. Johnson, Senior
Vice President - Accounting
(Principal Accounting Officer)

/s/ E.F. Heizer, Jr.

E.F. Heizer, Jr., Director

/s/ Breene M. Kerr

Breene M. Kerr, Director

/s/ Shannon T. Self

Shannon T. Self, Director

/s/ Frederick B. Whittemore

Frederick B. Whittemore, Director