

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM S-4
REGISTRATION STATEMENT UNDER THE
SECURITIES ACT OF 1933

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

Oklahoma 1311 73-1395733
(State or Other Jurisdiction of (Primary Standard Industrial (I.R.S. Employer Identification No.)
Incorporation or Organization) Classification Code Number)

6100 North Western Avenue Aubrey K. McClendon
Oklahoma City, Oklahoma Chairman of the Board and
73118 Chief Executive Officer
(405) 848-8000 6100 North Western Avenue
(Address, Including Zip Oklahoma City, Oklahoma
Code, 73118
and Telephone Number, (405) 848-8000
Including Area Code,
of Registrant's Principal
Executive Offices)

(Name, Address, Including
Zip Code,
and Telephone Number,
Including
Area Code, of Agent for
Service)

Copy to:
James M. Prince, Esq.
Vinson & Elkins L.L.P.
2300 First City Tower
1001 Fannin Street
Houston, Texas 77002-6760
713-758-3710
713-615-5962 (fax)

Approximate date of commencement of proposed sale to the public: As soon as
practicable after the effective date of this Registration Statement.

If the securities being registered on this Form are being offered in
connection with the formation of a holding company and there is compliance with
General Instruction G, check the following box.

If this Form is filed to register additional securities for an offering
pursuant to Rule 462(b) under the Securities Act, check the following box and
list the Securities Act registration number of the earlier effective
registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d)
under the Securities Act, check the following box and list the Securities Act
registration statement number of the earlier effective registration statement
for the same offering.

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered	Proposed Maximum Offering Price Per Note(1)	Proposed Maximum Aggregate Offering Price(1)	Amount of Registration Fee
7.50% Senior Notes due 2013.....	\$300,000,000	100%	\$300,000,000	\$24,270
Guarantees by certain of Chesapeake Energy Corporation's subsidiaries	--	--	--	-- (2)

(1) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(f) under the Securities Act of 1933.

(2) Pursuant to Rule 457(n) no separate fee for the guarantees is payable because the guarantees relate to other securities that are being registered concurrently.

* Includes certain subsidiaries of Chesapeake Energy Corporation identified on the following pages.

The Ames Company, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1470082
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Carmen Acquisition, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1604860
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Acquisition, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1528271
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Energy Louisiana Corporation
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1524569
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake EP Corporation
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 48-1270813
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Exploration Limited Partnership
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1384282
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Louisiana, L.P.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1519126
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Operating, Inc.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1343196
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Panhandle Limited Partnership
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1565350
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Royalty, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1549744
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Gothic Energy, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 22-2663839
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Gothic Production, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1539475
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Nomac Drilling Corporation
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1606317
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Mountain Front, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1238619
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake ORC, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 71-0934234
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Sap Acquisition, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1622555
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake-Staghorn Acquisition L.P.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1612854
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake KNAN Acquisition, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 73-1300132
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake ENO Acquisition, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 82-0553595
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Delta Corp.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 41-2050649
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Focus, L.L.C.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 33-1021135
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Chesapeake Sigma, L.P.
(Exact Name of Registrant As Specified In Its Charter)

Oklahoma 27-0029884
(State or Other Jurisdiction of Incorporation or Organization) (I.R.S. Employer Identification Number)

Each Registrant hereby amends this Registration Statement on such dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended, or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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SUBJECT TO COMPLETION, DATED APRIL 9, 2003.

PROSPECTUS

Chesapeake Energy Corporation

Offer to Exchange up to
\$300,000,000 of 7.50% Senior Notes due 2013

for

\$300,000,000 of 7.5% Senior Notes due 2013
that have been Registered under the Securities Act of 1933

Terms of the Exchange Offer

- .. We are offering to exchange up to \$300,000,000 of our outstanding 7.50% Senior Notes due 2013 for new notes with substantially identical terms that have been registered under the Securities Act and are freely tradable.
- .. We will exchange all outstanding notes that you validly tender and do not validly withdraw before the exchange offer expires for an equal principal amount of new notes.
- .. The exchange offer expires at 5:00 p.m., New York City time, on _____, 2003, unless extended. We do not currently intend to extend the exchange offer.
- .. Tenders of outstanding notes may be withdrawn at any time prior to the expiration of the exchange offer.
- .. The exchange of outstanding notes for new notes will not be a taxable event for U.S. federal income tax purposes.

Terms of the New 7.5% Senior Notes Offered in the Exchange Offer

Maturity

- .. The new notes will mature on September 15, 2013.

Interest

- .. Interest on the new notes is payable on March 15 and September 15 of each year, beginning September 15, 2003.
- .. Interest will accrue from March 5, 2003.

Redemption

- .. We may redeem some or all of the new notes at any time on or after September 15, 2008 at redemption prices listed in "Description of the New Notes--Optional Redemption," and we may redeem some or all of the notes before that date by the payment of a make-whole premium.
- .. Subject to certain limitations, we may also redeem up to 35% of the new notes using the proceeds of certain equity offerings completed before September 15, 2006.

Change of Control

- .. If we experience a change of control, subject to certain conditions, we must offer to purchase the new notes.

Ranking

- .. The new notes are unsecured. The new notes rank equally in right of payment with all of our other existing and future senior debt and senior in right of payment to all of our future subordinated debt.

PLEASE READ "RISK FACTORS" ON PAGE 6 FOR A DISCUSSION OF FACTORS YOU SHOULD CONSIDER BEFORE PARTICIPATING IN THE EXCHANGE OFFER.

THESE SECURITIES HAVE NOT BEEN APPROVED OR DISAPPROVED BY THE SECURITIES AND EXCHANGE COMMISSION OR ANY STATE SECURITIES COMMISSION NOR HAS THE SECURITIES AND EXCHANGE COMMISSION PASSED UPON THE ACCURACY OR ADEQUACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is _____, 2003.

This prospectus is part of a registration statement we filed with the Securities and Exchange Commission. In making your investment decision, you should rely only on the information contained in this prospectus and in the accompanying letter of transmittal. We have not authorized anyone to provide you with any other information. If you receive any unauthorized information, you must not rely on it. We are not making an offer to sell these securities in any state where the offer is not permitted. You should not assume that the information contained in this prospectus, or the documents incorporated by reference into this prospectus, is accurate as of any date other than the date on the front cover of this prospectus or the date of such document, as the case may be.

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PROSPECTUS SUMMARY

This summary may not contain all the information that may be important to you. You should read this entire prospectus and the documents we have incorporated into this prospectus by reference before making an investment decision. You should carefully consider the information set forth under "Risk Factors." In addition, certain statements include forward-looking information which involves risks and uncertainties. Please read "Forward-Looking Statements." Unless this prospectus otherwise indicates or the context otherwise requires, the terms "we," "our," "us" "Chesapeake" or the "Company" as used in this prospectus refer to Chesapeake Energy Corporation and its subsidiaries.

The Company

We are among the ten largest independent natural gas producers in the United States, owning interests in approximately 13,400 producing oil and gas wells (which includes the approximately 1,900 wells we recently acquired from ONEOK and the approximately 800 wells we recently acquired from the El Paso Corporation and Vintage Petroleum, Inc.). We estimate that our proved reserves were approximately 2.75 trillion cubic feet of gas equivalent as of December 31, 2002, pro forma for the recently completed ONEOK, El Paso and Vintage acquisitions. Approximately 91% of our pro forma proved reserves are natural gas and 89% of our pro forma proved reserves are located in the Mid-Continent region of the United States, which includes Oklahoma, western Arkansas, southwestern Kansas and the Texas Panhandle. We have smaller operations in the Deep Giddings field in Texas, the Tuscaloosa Trend in Louisiana, the Permian Basin region of southeastern New Mexico and the Williston Basin of North Dakota and Montana.

Our executive offices are located at 6100 North Western Avenue, Oklahoma City, Oklahoma 73118, and our telephone number is (405) 848-8000.

The Exchange Offer

On March 5, 2003, we completed a private offering of the outstanding notes. As part of the private offering, we entered into a registration rights agreement with the initial purchasers of the outstanding notes in which we agreed, among other things, to deliver this prospectus to you and to use our best efforts to complete the exchange offer within 240 days after the date we issued the outstanding notes. The following is a summary of the exchange offer.

Exchange Offer.....	We are offering to exchange new notes for outstanding notes.
Expiration Date.....	The exchange offer will expire at 5:00 p.m. New York City time, on _____, 2003, unless we decide to extend it.
Condition to the Exchange Offer.....	The registration rights agreement does not require us to accept outstanding notes for exchange if the exchange offer or the making of any exchange by a holder of the outstanding notes would violate any applicable law or interpretation of the staff of the SEC. A minimum aggregate principal amount of outstanding notes being tendered is not a condition to the exchange offer.
Procedures for Tendering Outstanding Notes.....	To participate in the exchange offer, you must follow the procedures established by The Depository Trust Company, which we call "DTC,"

for tendering notes held in book-entry form. These procedures, which we call "ATOP," require that the exchange agent receive, prior to the expiration date of the exchange offer, a computer generated message known as an "agent's message" that is transmitted through DTC's automated tender offer program and that DTC confirm that:

- . DTC has received your instructions to exchange your notes; and
- . you agree to be bound by the terms of the letter of transmittal

For more details, please refer to the sections of this prospectus entitled "Exchange Offer--Terms of the Exchange Offer" and "--Procedures for Tendering."

Guaranteed Delivery
Procedures.....

None.

Withdrawal of Tenders.....

You may withdraw your tender of outstanding notes at any time prior to the expiration date. To withdraw, you must submit a notice of withdrawal to exchange agent using ATOP procedures before 5:00 p.m. New York City time on the expiration date of the exchange offer. Please read "Exchange Offer--Withdrawal of Tenders."

Acceptance of Outstanding
Notes and Delivery of New
Notes.....

If you fulfill all conditions required for proper acceptance of outstanding notes, we will accept any and all outstanding notes that you properly tender in the exchange offer on or before 5:00 p.m. New York City time on the expiration date. We will return any outstanding note that we do not accept for exchange to you without expense as promptly as practicable after the expiration date. We will deliver the new notes as promptly as practicable after the expiration date and acceptance of the outstanding notes for exchange. Please refer to the section in this prospectus entitled "Exchange Offer--Terms of the Exchange Offer."

Fees and Expenses.....

We will bear all expenses related to the exchange offer. Please refer to the section in this prospectus entitled "Exchange Offer--Fees and Expenses."

Use of Proceeds.....

The issuance of the new notes will not provide us with any new proceeds. We are making this exchange offer solely to satisfy our obligations under our registration rights agreement.

Consequences of Failure to
Exchange Outstanding Notes

If you do not exchange your outstanding notes in this exchange offer, you will no longer be able to require us to register the outstanding notes under the Securities Act except in the limited circumstances provided under our registration rights agreement. In addition, you will not be able to resell, offer to resell or otherwise transfer the outstanding notes unless we have registered the outstanding notes under the Securities Act, or unless you resell, offer to resell or otherwise transfer them under an exemption from the registration requirements of, or in a transaction not subject to, the Securities Act.

U.S. Federal Income Tax

Considerations..... The exchange of new notes for outstanding notes in the exchange offer should not be a taxable event for U.S. federal income tax purposes. Please read "Federal Income Tax Considerations."

Exchange Agent..... We have appointed The Bank of New York as exchange agent for the exchange offer. You should direct questions and requests for assistance and requests for additional copies of this prospectus (including the letter of transmittal) to the exchange agent addressed as follows: The Bank of New York, Corporate Trust Operations, Reorganization Unit, 101 Barclay Street--7 East, New York, New York, 10286. Eligible institutions may make requests by facsimile at (212) 298-1915.

Terms of the New Notes

The new notes will be identical to the outstanding notes except that the new notes are registered under the Securities Act and will not have restrictions on transfer, registration rights or provisions for additional interest and will contain different administrative terms. The new notes will evidence the same debt as the outstanding notes, and the same indenture will govern the new notes and the outstanding notes.

The following summary contains basic information about the new notes and is not intended to be complete. It does not contain all the information that is important to you. For a more complete understanding of the new notes, please refer to the section of this prospectus entitled "Description of the New Notes."

Issuer..... Chesapeake Energy Corporation.

Notes Offered..... \$300,000,000 in aggregate principal amount of 7.50% Senior Notes due 2013.

Maturity..... September 15, 2013.

Interest on the New Notes... 7.50% annually.

Interest Payment Dates..... March 15 and September 15 of each year, commencing on September 15, 2003.

Sinking Fund..... None.

Optional Redemption..... On or after September 15, 2008, we may redeem some or all of the notes at the redemption prices listed in the "Description of the New Notes--Optional Redemption" section of this prospectus, plus accrued but unpaid interest to the date of redemption.

Until September 15, 2006, we may choose to redeem up to 35% of the original principal amount of the notes (and any additional notes of the same series that we may issue later) with money we raise in certain equity offerings, as long as:

- . we pay the holders of notes (and any such additional notes) redeemed a redemption price of 107.50% of the principal amount of the notes (and any such additional notes) we redeem, plus accrued but unpaid interest to the date of redemption; and
- . at least 65% of the original aggregate principal amount of the notes (and any additional notes) remains outstanding after such redemption.

In addition to the foregoing, we may redeem some or all of the notes prior to September 15, 2008 by the payment of a make-whole premium described in the "Description of the New Notes--Optional Redemption" section of this prospectus.

Change of Control..... If a Change of Control of our company occurs, subject to certain conditions, we must give holders of the new notes an opportunity to

sell us their notes at a purchase price of 101% of the principal amount of the new notes, plus accrued but unpaid interest to the date of purchase. The term "Change of Control" is defined in the "Description of the New Notes--Certain Definitions" section of this prospectus.

Guarantees..... The new notes will be unconditionally guaranteed, jointly and severally, by each of our existing and future restricted subsidiaries. All of our existing subsidiaries other than Chesapeake Energy Marketing, Inc. are restricted subsidiaries.

Ranking..... The new notes will be unsecured and will rank equally in right of payment to all of our existing and future senior indebtedness. The new notes will rank senior in right of payment to all of our future subordinated indebtedness. Please read "Description of the New Notes--Ranking."

Restrictive Covenants..... The indenture governing the notes contains, among other things, limitations on our ability and the ability of our restricted subsidiaries to:

- . incur additional indebtedness;
- . pay dividends on our capital stock or redeem, repurchase or retire our capital stock or subordinated indebtedness;
- . make investments and other restricted payments;
- . create restrictions on the payment of dividends or other amounts to us from our restricted subsidiaries;
- . incur liens;
- . engage in transactions with affiliates;
- . sell assets; and
- . consolidate, merge or transfer assets.

All of these limitations are subject to a number of important exceptions and qualifications, which are described in the "Description of the New Notes--Certain Covenants" section of this prospectus.

Transfer Restrictions;
Absence of a Public Market
for the Notes..... The new notes generally will be freely transferable, but will also be new securities for which there will not initially be a market. There can be no assurance as to the development or liquidity of any market for the new notes.

Risk Factors

Please read "Risk Factors," beginning on page 6 of this prospectus, for a discussion of certain factors that you should consider before participating in the exchange offer.

RISK FACTORS

In addition to the other information set forth elsewhere or incorporated by reference in this prospectus, the following factors relating to our company and the exchange offer and the new notes should be considered carefully in deciding whether to participate in the exchange offer.

Risks Related to Our Business

Oil and gas prices are volatile. A decline in prices could adversely affect our financial results, cash flows, access to capital and ability to grow.

Our revenues, operating results, profitability, future rate of growth and the carrying value of our oil and gas properties depend primarily upon the prices we receive for our oil and gas. Prices also affect the amount of cash flow available for capital expenditures and our ability to borrow money or raise additional capital. The amount we can borrow from banks is subject to periodic redeterminations based on prices specified by our bank group at the time of redetermination. In addition, we may have ceiling test writedowns in the future if prices fall significantly.

Historically, the markets for oil and gas have been volatile and they are likely to continue to be volatile. Wide fluctuations in oil and gas prices may result from relatively minor changes in the supply of and demand for oil and natural gas, market uncertainty and other factors that are beyond our control, including:

- . worldwide and domestic supplies of oil and gas;
- . weather conditions;
- . the level of consumer demand;
- . the price and availability of alternative fuels;
- . risks associated with owning and operating drilling rigs;
- . the availability of pipeline capacity;
- . the price and level of foreign imports;
- . domestic and foreign governmental regulations and taxes;
- . the ability of the members of the Organization of Petroleum Exporting Countries to agree to and maintain oil price and production controls;
- . political instability or armed conflict in oil-producing regions; and
- . the overall economic environment.

These factors and the volatility of the energy markets make it extremely difficult to predict future oil and gas price movements with any certainty. Declines in oil and gas prices would not only reduce revenue, but could reduce the amount of oil and gas that we can produce economically and, as a result, could have a material adverse effect on our financial condition, results of operations and reserves. Further, oil and gas prices do not necessarily move in tandem. Because approximately 91% of our proved reserves are currently natural gas reserves, we are more affected by movements in natural gas prices.

Our level of indebtedness and preferred stock may adversely affect operations and limit our growth, and we may have difficulty making debt service and preferred stock dividend payments on our indebtedness, including the new notes and our preferred stock as such payments become due.

As of March 31, 2003, we had \$1.98 billion in aggregate principal amount of long-term indebtedness outstanding, none of which was secured indebtedness, plus preferred stock outstanding having an aggregate liquidation preference of \$379.9 million. Our long-term indebtedness represented 65% of our total book capitalization at December 31, 2002. We will continue to be highly leveraged after the exchange offer.

Our level of indebtedness affects our operations in several ways, including the following:

- . a significant portion of our cash flows must be used to service our indebtedness and we cannot assure you that our business will generate sufficient cash flows from operations to enable us to continue to meet our obligations under our indebtedness and our stated dividends on our preferred stock;
- . a high level of debt increases our vulnerability to general adverse economic and industry conditions;
- . the covenants contained in the agreements governing our outstanding indebtedness limit our ability to borrow additional funds, dispose of assets, pay dividends and make certain investments;
- . our debt covenants may also affect our flexibility in planning for, and reacting to, changes in the economy and in our industry and the rights and preferences applicable to our preferred stock may limit our ability to pay dividends on our common stock; and
- . a high level of debt and preferred stock may impair our ability to obtain additional financing in the future for working capital, capital expenditures, acquisitions, general corporate or other purposes.

We may incur additional debt, including significant secured indebtedness, or issue additional series of preferred stock, in order to make future acquisitions or to develop our properties. A higher level of indebtedness increases the risk that we may default on our debt obligations, including the new notes. Our ability to meet our debt obligations and to reduce our level of indebtedness depends on our future performance. General economic conditions, oil and gas prices and financial, business and other factors affect our operations and our future performance. Many of these factors are beyond our control. We may not be able to generate sufficient cash flow to pay the interest on our debt, and future working capital, borrowings or equity financing may not be available to pay or refinance such debt. Factors that will affect our ability to raise cash through an offering of our capital stock or a refinancing of our debt include financial market conditions, the value of our assets and our performance at the time we need capital.

In addition, our bank borrowing base is subject to periodic redeterminations. We could be forced to repay a portion of our bank borrowings due to redeterminations of our borrowing base. If we are forced to do so, we may not have sufficient funds to make such repayments. If we do not have sufficient funds and are otherwise unable to negotiate renewals of our borrowings or arrange new financing, we may have to sell significant assets. Any such sale could have a material adverse effect on our business and financial results.

Our industry is extremely competitive.

The energy industry is extremely competitive. This is especially true with regard to exploration for, and development and production of, new sources of oil and natural gas. As an independent producer of oil and natural gas, we frequently compete against companies that are larger and financially stronger in acquiring properties suitable for exploration, in contracting for drilling equipment and other services and in securing trained personnel.

Our commodity price risk management activities may reduce the realized prices received for our oil and gas sales.

In order to manage our exposure to price volatility in marketing our oil and gas, we enter into oil and gas price risk management arrangements for a portion of our expected production. These transactions are limited in life. While intended to reduce the effects of volatile oil and gas prices, commodity price risk management transactions may limit the prices we actually realize and we may experience reductions in oil and gas revenues from our commodity price risk management activities in the future. In addition, our commodity price risk management transactions may expose us to the risk of financial loss in certain circumstances, including instances in which:

- . our production is less than expected;
- . there is a widening of price differentials between delivery points for our production and the delivery point assumed in the hedge arrangement; or
- . the counterparties to our contracts fail to perform under the contracts.

Some of our commodity price and interest rate risk management arrangements require us to deliver cash collateral or other assurances of performance to the counterparties in the event that our payment obligations with respect to our risk management transactions exceed certain levels. As of March 31, 2003, we were required to post \$14.5 million of collateral with one of our counterparties through letters of credit issued under our bank credit facility. Future collateral requirements are uncertain and will depend on arrangements with our counterparties and highly volatile natural gas and oil prices.

Estimates of oil and gas reserves are uncertain and inherently imprecise.

This prospectus and the documents incorporated by reference in this prospectus contain estimates of our proved reserves and the estimated future net revenues from our proved reserves as well as estimates relating to our recent acquisitions. These estimates are based upon various assumptions, including assumptions required by the SEC relating to oil and gas prices, drilling and operating expenses, capital expenditures, taxes and availability of funds. The process of estimating oil and gas reserves is complex. The process involves significant decisions and assumptions in the evaluation of available geological, geophysical, engineering and economic data for each reservoir. Therefore, these estimates are inherently imprecise.

Actual future production, oil and gas prices, revenues, taxes, development expenditures, operating expenses and quantities of recoverable oil and gas reserves most likely will vary from these estimates. Such variations may be significant and could materially affect the estimated quantities and present value of our proved reserves. In addition, we may adjust estimates of proved reserves to reflect production history, results of exploration and development drilling, prevailing oil and gas prices and other factors, many of which are beyond our control. Our properties may also be susceptible to hydrocarbon drainage from production by operators on adjacent properties.

At December 31, 2002 approximately 26% by volume of our estimated proved reserves were undeveloped. Recovery of undeveloped reserves requires significant capital expenditures and successful drilling operations. The estimates of these reserves include the assumption that we will make significant capital expenditures to develop the reserves, including \$248 million in 2003. Although we have prepared estimates of our oil and gas reserves and the costs associated with these reserves in accordance with industry standards, the estimated costs may not be accurate, development may not occur as scheduled and results may not be as estimated.

You should not assume that the present values referred to in the documents incorporated by reference in this prospectus represent the current market value of our estimated oil and gas reserves. In accordance with SEC requirements, the estimates of our present values are based on prices and costs as of the date of the estimates. The December 31, 2002 present value is based on weighted average oil and gas prices of \$30.18 per barrel of oil and \$4.28 per mcf of natural gas. Actual future prices and costs may be materially higher or lower than the prices and costs as of the date of an estimate.

Any changes in consumption by oil and gas purchasers or in governmental regulations or taxation will also affect actual future net cash flows.

The timing of both the production and the expenses from the development and production of oil and gas properties will affect both the timing of actual future net cash flows from our proved reserves and their present value. In addition, the 10% discount factor, which is required by the SEC to be used in calculating discounted future net cash flows for reporting purposes, is not necessarily the most accurate discount factor. The effective interest rate at various times and the risks associated with our business or the oil and gas industry in general will affect the accuracy of the 10% discount factor.

If we do not make significant capital expenditures, we may not be able to replace reserves.

Our exploration, development and acquisition activities require substantial capital expenditures. Historically, we have funded our capital expenditures through a combination of cash flows from operations, our bank credit facility and debt and equity issuances. Future cash flows are subject to a number of variables, such as the level of production from existing wells, prices of oil and gas, and our success in developing and producing new reserves. If revenue were to decrease as a result of lower oil and gas prices or decreased production, and our access to capital were limited, we would have a reduced ability to replace our reserves. If our cash flow from operations is not sufficient to fund our capital expenditure budget, there can be no assurance that additional bank debt, debt or equity issuances or other methods of financing will be available to meet these requirements.

Our recent reserve estimates have not been reviewed by independent petroleum engineers.

Our estimates of proved reserves attributed to our ONEOK, El Paso and Vintage acquisitions included or incorporated by reference in this prospectus have not been reviewed or reported on by independent petroleum engineers. These estimates were prepared by our own engineers and professionals using criteria otherwise in compliance with SEC rules. Furthermore, our internal reserve estimates for the El Paso and Vintage acquisitions are based upon data available to us, which may not be as complete as data available on our other properties. Oil and gas pricing can affect estimates of quantities of proved reserves due to the impact of pricing on ultimate economic recovery. Estimates prepared by independent engineers might be different than our internal estimates.

If we are not able to replace reserves, we may not be able to sustain production.

Our future success depends largely upon our ability to find, develop or acquire additional oil and gas reserves that are economically recoverable. Unless we replace the reserves we produce through successful development, exploration or acquisition, our proved reserves will decline over time. In addition, approximately 26% by volume of our total estimated proved reserves at December 31, 2002 were undeveloped. By their nature, undeveloped reserves are less certain. Recovery of such reserves will require significant capital expenditures and successful drilling operations. We cannot assure you that we can successfully find and produce reserves economically in the future. In addition, we may not be able to acquire proved reserves at acceptable costs.

Acquisitions are subject to the uncertainties of evaluating recoverable reserves and potential liabilities.

Our recent growth is due in part to acquisitions of exploration and production companies and producing properties. We expect acquisitions will also contribute to our future growth. Successful acquisitions require an assessment of a number of factors, many of which are beyond our control. These factors include recoverable reserves, exploration potential, future oil and gas prices, operating costs and potential environmental and other liabilities. Such assessments are inexact and their accuracy is inherently uncertain. In connection with our assessments, we perform a review of the acquired properties, which we believe is generally consistent with industry practices. However, such a review will not reveal all existing or potential problems. In addition, our review may not permit us to become sufficiently familiar with the properties to fully assess their deficiencies and capabilities. We do not inspect every well. Even when we inspect a well, we do not always discover structural,

subsurface and environmental problems that may exist or arise. Our review prior to signing a definitive purchase agreement may be even more limited. For example, based on our knowledge of the properties and in exchange for concessions in the negotiations for the El Paso acquisition, we elected to forego most due diligence review including environmental site inspections prior to signing a definitive agreement which contains limited remedies against the seller.

We are generally not entitled to contractual indemnification for preclosing liabilities, including environmental liabilities, on acquisitions, including our recent El Paso and Vintage acquisitions. Normally, we acquire interests in properties on an "as is" basis with limited remedies for breaches of representations and warranties. We could incur significant unknown liabilities, including environmental liabilities, or experience losses due to title defects, in our recent acquisitions for which we have limited or no contractual remedies or insurance coverage.

In addition, competition for producing oil and gas properties is intense and many of our competitors have financial and other resources that are substantially greater than those available to us. Therefore, we may not be able to acquire oil and gas properties that contain economically recoverable reserves or be able to complete such acquisitions on acceptable terms.

Additionally, significant acquisitions can change the nature of our operations and business depending upon the character of the acquired properties, which may have substantially different operating and geological characteristics or be in different geographic locations than our existing properties. While it is our current intention to continue to concentrate on acquiring properties with development and exploration potential located in the Mid-Continent region, there can be no assurance that in the future we will not decide to pursue acquisitions or properties located in other geographic regions. To the extent that such acquired properties are substantially different than our existing properties, our ability to efficiently realize the economic benefits of such transactions may be limited.

Future price declines may result in a write-down of our asset carrying values.

We utilize the full cost method of accounting for costs related to our oil and gas properties. Under this method, all such costs (productive and nonproductive) are capitalized and amortized on an aggregate basis over the estimated lives of the properties using the units-of-production method. These capitalized costs are subject to a ceiling test, however, which limits such pooled costs to the aggregate of the present value of future net revenues attributable to proved oil and gas reserves discounted at 10% plus the lower of cost or market value of unproved properties. The full cost ceiling is evaluated at the end of each quarter utilizing the prices for oil and gas at that date. A significant decline in oil and gas prices from current levels, or other factors, without other mitigating circumstances, could cause a future write-down of capitalized costs and a non-cash charge against future earnings.

Oil and gas drilling and producing operations are hazardous and expose us to environmental liabilities.

Oil and gas operations are subject to many risks, including well blowouts, cratering and explosions, pipe failure, fires, formations with abnormal pressures, uncontrollable flows of oil, natural gas, brine or well fluids, and other environmental hazards and risks. Our drilling operations involve risks from high pressures and from

mechanical difficulties such as stuck pipes, collapsed casings and separated cables. If any of these risks occurs, we could sustain substantial losses as a result of:

- . injury or loss of life;
- . severe damage to or destruction of property, natural resources and equipment;
- . pollution or other environmental damage;
- . clean-up responsibilities;
- . regulatory investigations and penalties; and
- . suspension of operations.

Our liability for environmental hazards includes those created either by the previous owners of properties that we purchase or lease or by acquired companies prior to the date we acquire them. In accordance with industry practice, we maintain insurance against some, but not all, of the risks described above. We cannot assure you that our insurance will be adequate to cover casualty losses or liabilities. Also, we cannot predict the continued availability of insurance at premium levels that justify its purchase.

Exploration and development drilling may not result in commercially productive reserves.

We do not always encounter commercially productive reservoirs through our drilling operations. The new wells we drill or participate in may not be productive and we may not recover all or any portion of our investment in wells we drill or participate in. The seismic data and other technologies we use do not allow us to know conclusively prior to drilling a well that oil or gas is present or may be produced economically. The cost of drilling, completing and operating a well is often uncertain, and cost factors can adversely affect the economics of a project. Our efforts will be unprofitable if we drill dry wells or wells that are productive but do not produce enough reserves to return a profit after drilling, operating and other costs. Further, our drilling operations may be curtailed, delayed or canceled as a result of a variety of factors, including:

- . unexpected drilling conditions;
- . title problems;
- . pressure or irregularities in formations;
- . equipment failures or accidents;
- . adverse weather conditions;
- . compliance with environmental and other governmental requirements; and
- . cost of, or shortages or delays in the availability of, drilling rigs and equipment.

The loss of key personnel could adversely affect our ability to operate.

We depend, and will continue to depend in the foreseeable future, on the services of our officers and key employees with extensive experience and expertise in evaluating and analyzing producing oil and gas properties and drilling prospects, maximizing production from oil and gas properties and marketing oil and gas production. Our ability to retain our officers and key employees is important to our continued success and growth. The unexpected loss of the services of one or more of these individuals could have a detrimental effect on our business.

Lower oil and gas prices could negatively impact our ability to borrow.

Our current bank credit facility limits our borrowings to a borrowing base of \$250 million as of the date of this prospectus. The borrowing base is determined periodically at the discretion of a majority of the banks and is based in part on oil and gas prices. Additionally, some of our indentures, including the indenture under which the new notes will be issued, contain covenants limiting our ability to incur indebtedness in addition to that incurred under our bank credit facility. These indentures limit our ability to incur additional indebtedness unless we meet

one of two alternative tests. The first alternative is based on a percentage of our adjusted consolidated net tangible assets, which is determined using discounted future net revenues from proved oil and gas reserves as of the end of each year. As of the date of this prospectus, we cannot incur additional indebtedness under this first alternative of the debt incurrence test. The second alternative is based on the ratio of our adjusted consolidated EBITDA (as defined in the agreement) to our adjusted consolidated interest expense over a trailing twelve-month period. As of the date of this prospectus, we are permitted to incur significant additional indebtedness under this second alternative of the debt incurrence test. Lower oil and gas prices in the future could reduce our adjusted consolidated EBITDA (as defined in the agreement), as well as our adjusted consolidated net tangible assets, and thus could reduce our ability to incur additional indebtedness.

Our oil and gas marketing activities may expose us to claims from royalty owners.

In addition to marketing our own oil and gas production, our marketing activities include marketing oil and gas production for working interest owners and royalty owners in the wells that we operate. These activities include the operation of gathering systems and the sale of oil and natural gas under various arrangements. In the past two years, royalty owners have commenced litigation against a number of companies in the oil and gas production business claiming that amounts paid for production attributable to the royalty owners' interest violated the terms of the applicable leases and state law, that deductions from the proceeds of oil and gas production were unauthorized under the applicable leases and that amounts received by upstream sellers should be used to compute the amounts paid to the royalty owners. Some of this litigation was commenced as class action suits including five class action suits filed against Chesapeake. As new cases are decided and the law in this area continues to develop, our liability relating to the marketing of oil and gas may increase.

Risks Related to the Exchange Offer and the New Notes

If you do not properly tender your outstanding notes, you will continue to hold unregistered outstanding notes and your ability to transfer outstanding notes will be adversely affected.

We will only issue new notes in exchange for outstanding notes that you timely and properly tender. Therefore, you should allow sufficient time to ensure timely delivery of the outstanding notes and you should carefully follow the instructions on how to tender your outstanding notes. Neither we nor the exchange agent is required to tell you of any defects or irregularities with respect to your tender of outstanding notes.

If you do not exchange your outstanding notes for new notes pursuant to the exchange offer, the outstanding notes you hold will continue to be subject to the existing transfer restrictions. In general, you may not offer or sell the outstanding notes except under an exemption from, or in a transaction not subject to, the Securities Act and applicable state securities laws. We do not plan to register outstanding notes under the Securities Act unless our registration rights agreement with the initial purchasers of the outstanding notes requires us to do so. Further, if you continue to hold any outstanding notes after the exchange offer is consummated, you may have trouble selling them because there will be fewer such notes outstanding.

If an active trading market does not develop for the new notes, you may be unable to sell the new notes or to sell the new notes at a price that you deem sufficient.

The new notes will be new securities for which there currently is no established trading market. Although the initial purchasers of the outstanding notes have informed us that they intend to make a market in the new notes after the exchange offer, the initial purchasers may stop making a market at any time. Finally, if a large number of holders of outstanding notes do not tender outstanding notes or tender outstanding notes improperly, the limited amount of new notes that would be issued and outstanding after we consummate the exchange offer could adversely affect the development of a market for these new notes.

A guarantee could be voided if the guarantor fraudulently transferred the guarantee at the time it incurred the indebtedness, which could result in the noteholders being able to rely on only Chesapeake to satisfy claims.

Under U.S. bankruptcy law and comparable provisions of state fraudulent transfer laws, a guarantee can be voided, or claims under a guarantee may be subordinated to all other debts of that guarantor if, among other things, the guarantor, at the time it incurred the indebtedness evidenced by its guarantee:

- . intended to hinder, delay or defraud any present or future creditor or received less than reasonably equivalent value or fair consideration for the incurrence of the guarantee;
- . was insolvent or rendered insolvent by reason of such incurrence;
- . was engaged in a business or transaction for which the guarantor's remaining assets constituted unreasonably small capital; or
- . intended to incur, or believed that it would incur, debts beyond its ability to pay those debts as they mature.

In addition, any payment by that guarantor under a guarantee could be voided and required to be returned to the guarantor or to a fund for the benefit of the creditors of the guarantor.

The measures of insolvency for purposes of fraudulent transfer laws vary depending upon the governing law. Generally, a guarantor would be considered insolvent if:

- . the sum of its debts, including contingent liabilities, was greater than the fair saleable value of all of its assets;
- . the present fair saleable value of its assets was less than the amount that would be required to pay its probable liability on its existing debts, including contingent liabilities, as they became absolute and mature; or
- . it could not pay its debts as they became due.

On the basis of historical financial information, recent operating history and other factors, we believe that the subsidiary guarantees are being incurred for proper purposes and in good faith and that each subsidiary guarantor, after giving effect to its guarantee of the notes, will not be insolvent, have unreasonably small capital for the business in which it is engaged or have incurred debts beyond its ability to pay those debts as they mature. We cannot be certain, however, that a court would agree with our conclusions in this regard.

Holder of the new notes, like holders of the outstanding notes, will be effectively subordinated to all of our and the subsidiary guarantors' secured indebtedness and to all liabilities of our non-guarantor subsidiaries.

Holder of our secured indebtedness, including the indebtedness under our revolving bank credit facility, have claims with respect to our assets constituting collateral for their indebtedness that are prior to your claims under the new notes. In the event of a default on the new notes or our bankruptcy, liquidation or reorganization, those assets would be available to satisfy obligations with respect to the indebtedness secured thereby before any payment could be made on the new notes. Accordingly, the secured indebtedness would effectively be senior to the new notes to the extent of the value of the collateral securing the indebtedness. While the indenture governing the notes places some limitations on our ability to create liens, there are significant exceptions to these limitations, including with respect to sale and leaseback transactions, that will allow us to secure some kinds of indebtedness without equally and ratably securing the new notes. To the extent the value of the collateral is not sufficient to satisfy the secured indebtedness, the holders of that indebtedness would be entitled to share with the holders of the new notes and the holders of other claims against us with respect to our other assets.

In addition, the new notes are not guaranteed by all of our subsidiaries, and our non-guarantor subsidiary is permitted to incur additional indebtedness under the indenture. As a result, holders of the new notes will be effectively subordinated to claims of third party creditors, including holders of indebtedness, and preferred shareholders of our non-guarantor subsidiary. Claims of those other creditors, including trade creditors, secured creditors, authorities, holders of indebtedness or guarantees issued by this non-guarantor subsidiary and preferred shareholders of our non-guarantor subsidiary, will generally have priority as to the assets of the non-guarantor subsidiary over our claims and equity interests. As a result, holders of our indebtedness, including the holders of the new notes, will be effectively subordinated to all those claims. As of March 31, 2003, our non-guarantor subsidiary had no outstanding senior indebtedness.

EXCHANGE OFFER

Purpose and Effect of the Exchange Offer

In connection with the issuance of the outstanding notes, we entered into a registration rights agreement. Under the registration rights agreement, we agreed to:

- . within 60 days after the original issuance of the outstanding notes on March 5, 2003, file a registration statement with the SEC with respect to a registered offer to exchange each outstanding note for a new note having terms substantially identical in all material respects to such note except that the new note will not contain terms with respect to transfer restrictions;
- . use our best efforts to cause the registration statement to be declared effective under the Securities Act within 180 days after the original issuance of the outstanding notes;
- . promptly following the effectiveness of the registration statement, offer the new notes in exchange for surrender of the outstanding notes; and
- . keep the exchange offer open for not less than 30 days (or longer if required by applicable law) after the date notice of the exchange offer is mailed to the holders of the outstanding notes.

We have fulfilled the agreements described in the first two of the preceding bullet points and are now offering eligible holders of the outstanding notes the opportunity to exchange their outstanding notes for new notes registered under the Securities Act. Holders are eligible if they are not prohibited by any law or policy of the SEC from participating in this exchange offer. The new notes will be substantially identical to the outstanding notes except that the new notes will not contain terms with respect to transfer restrictions, registration rights or additional interest.

Under limited circumstances, we agreed to use our best efforts to cause the SEC to declare effective a shelf registration statement for the resale of the outstanding notes. We also agreed to use our best efforts to keep the shelf registration statement effective for up to two years after its effective date. The circumstances include if:

- . a change in law or in applicable interpretations thereof of the staff of the SEC does not permit us to effect the exchange offer; or
- . for any other reason the exchange offer is not consummated within 240 days from March 5, 2003, the date of the original issuance of the outstanding notes; or
- . the initial purchasers notify us following consummation of the exchange offer that outstanding notes held by it are not eligible to be exchanged for new notes in the exchange offer; or
- . certain holders are not eligible to participate in the exchange offer, or such holders do not receive freely tradeable securities on the date of the exchange.

We will pay additional cash interest on the applicable outstanding notes, subject to certain exceptions:

- . if the exchange offer is not consummated on or before the 60th business day after this registration statement is declared effective,
- . if obligated to file a shelf registration statement, we fail to file the shelf registration statement with the SEC on or prior to the 30th day after the date on which the obligation to file a shelf registration statement arises, which we refer to as the shelf filing date,
- . if obligated to file a shelf registration statement due to the circumstances described in the first bullet point of the preceding paragraph, the shelf registration statement is not declared effective on or prior to the 180th day after the original issuance of the outstanding notes,
- . if we are obligated to file a shelf registration statement due to the circumstances described in the second, third or fourth bullet points of the preceding paragraph, the shelf registration statement is not declared effective on or prior to the 60th day after the shelf filing date, or

- . after this registration statement or the shelf registration statement, as the case may be, is declared effective, such registration statement thereafter ceases to be effective or usable (subject to certain exceptions) (each such event referred to in the preceding clauses being a "registration default");

from and including the date on which any such registration default occurs to but excluding the date on which all registration defaults have been cured.

The rate of the additional interest will be 0.5% per year for the first 90-day period immediately following the occurrence of a registration default, and such rate will increase by an additional 0.5% per year with respect to each subsequent 90-day period until all registration defaults have been cured, up to a maximum additional interest rate of 2.0% per year. We will pay such additional interest on regular interest payment dates. Such additional interest will be in addition to any other interest payable from time to time with respect to the outstanding notes and the new notes.

Upon the effectiveness of this registration statement, the consummation of the exchange offer, the effectiveness of a shelf registration statement, or the effectiveness of a succeeding registration statement, as the case may be, the interest rate borne by the notes from the date of such effectiveness or consummation, as the case may be, will be reduced to the original interest rate. However, if after any such reduction in interest rate, a different registration default occurs, the interest rate may again be increased pursuant to the preceding paragraph.

To exchange your outstanding notes for transferable new notes in the exchange offer, you will be required to make the following representations:

- . any new notes will be acquired in the ordinary course of your business;
- . you have no arrangement or understanding with any person or entity to participate in the distribution of the new notes;
- . you are not engaged in and do not intend to engage in the distribution of the new notes;
- . if you are a broker-dealer that will receive new notes for your own account in exchange for outstanding notes, you acquired those notes as a result of market-making activities or other trading activities and you will deliver a prospectus, as required by law, in connection with any resale of such new notes; and
- . you are not our "affiliate," as defined in Rule 405 of the Securities Act.

In addition, we may require you to provide information to be used in connection with the shelf registration statement to have your outstanding notes included in the shelf registration statement and benefit from the provisions regarding additional interest described in the preceding paragraphs. A holder who sells outstanding notes under the shelf registration statement generally will be required to be named as a selling securityholder in the related prospectus and to deliver a prospectus to purchasers. Such a holder will also be subject to the civil liability provisions under the Securities Act in connection with such sales and will be bound by the provisions of the registration rights agreement that are applicable to such a holder, including indemnification obligations.

The description of the registration rights agreement contained in this section is a summary only. For more information, you should review the provisions of the registration rights agreement that we filed with the SEC as an exhibit to the registration statement of which this prospectus is a part.

Resale of New Notes

Based on no action letters of the SEC staff issued to third parties, we believe that new notes may be offered for resale, resold and otherwise transferred by you without further compliance with the registration and prospectus delivery provisions of the Securities Act if:

- . you are not our "affiliate" within the meaning of Rule 405 under the Securities Act;
- . such new notes are acquired in the ordinary course of your business; and
- . you do not intend to participate in a distribution of the new notes.

The SEC, however, has not considered the exchange offer for the new notes in the context of a no action letter, and the SEC may not make a similar determination as in the no action letters issued to these third parties.

If you tender in the exchange offer with the intention of participating in any manner in a distribution of the new notes, you

- . cannot rely on such interpretations by the SEC staff; and
- . must comply with the registration and prospectus delivery requirements of the Securities Act in connection with a secondary resale transaction.

Unless an exemption from registration is otherwise available, any security holder intending to distribute new notes should be covered by an effective registration statement under the Securities Act. This registration statement should contain the selling security holder's information required by Item 507 of Regulation S-K under the Securities Act. This prospectus may be used for an offer to resell, resale or other retransfer of new notes only as specifically described in this prospectus. Only broker-dealers that acquired the outstanding notes as a result of market-making activities or other trading activities may participate in the exchange offer. Each broker-dealer that receives new notes for its own account in exchange for outstanding notes, where such outstanding notes were acquired by such broker-dealer as a result of market-making activities or other trading activities, must acknowledge by way of the letter of transmittal that it will deliver a prospectus in connection with any resale of the new notes. Please read the section captioned "Plan of Distribution" for more details regarding the transfer of new notes.

Terms of the Exchange Offer

Subject to the terms and conditions described in this prospectus and in the letter of transmittal, we will accept for exchange any outstanding notes properly tendered and not withdrawn prior to 5:00 p.m. New York City time on the expiration date. We will issue new notes in principal amount equal to the principal amount of outstanding notes surrendered under the exchange offer. Outstanding notes may be tendered only for new notes and only in integral multiples of \$1,000.

The exchange offer is not conditioned upon any minimum aggregate principal amount of outstanding notes being tendered for exchange.

As of the date of this prospectus, \$300,000,000 in aggregate principal amount of the outstanding notes are outstanding. This prospectus is being sent to DTC, the sole registered holder of the outstanding notes, and to all persons that we can identify as beneficial owners of the outstanding notes. There will be no fixed record date for determining registered holders of outstanding notes entitled to participate in the exchange offer.

We intend to conduct the exchange offer in accordance with the provisions of the registration rights agreement, the applicable requirements of the Securities Act and the Securities Exchange Act of 1934 and the rules and regulations of the SEC. Outstanding notes whose holders do not tender for exchange in the exchange offer will remain outstanding and continue to accrue interest. These outstanding notes will be entitled to the rights and benefits such holders have under the indenture relating to the notes and the registration rights agreement.

We will be deemed to have accepted for exchange properly tendered outstanding notes when we have given oral or written notice of the acceptance to the exchange agent and complied with the applicable provisions of the registration rights agreement. The exchange agent will act as agent for the tendering holders for the purposes of receiving the new notes from us.

If you tender outstanding notes in the exchange offer, you will not be required to pay brokerage commissions or fees or, subject to the letter of transmittal, transfer taxes with respect to the exchange of outstanding notes. We will pay all charges and expenses, other than certain applicable taxes described below, in connecting with the exchange offer. It is important that you read the section labeled "--Fees and Expenses" for more details regarding fees and expenses incurred in the exchange offer.

We will return any outstanding notes that we do not accept for exchange for any reason without expense to their tendering holder as promptly as practicable after the expiration or termination of the exchange offer.

Expiration Date

The exchange offer will expire at 5:00 p.m. New York City time on 2003, unless, in our sole discretion, we extend it.

Extensions, Delays in Acceptance, Termination or Amendment

We expressly reserve the right, at any time or various times, to extend the period of time during which the exchange offer is open. We may delay acceptance of any outstanding notes by giving oral or written notice of such extension to their holders. During any such extensions, all outstanding notes previously tendered will remain subject to the exchange offer, and we may accept them for exchange.

In order to extend the exchange offer, we will notify the exchange agent orally or in writing of any extension. We will notify the registered holders of outstanding notes of the extension no later than 9:00 a.m., New York City time, on the business day after the previously scheduled expiration date.

If any of the conditions described below under "--Conditions to the Exchange Offer" have not been satisfied, we reserve the right, in our sole discretion

- . to delay accepting for exchange any outstanding notes,
- . to extend the exchange offer, or
- . to terminate the exchange offer,

by giving oral or written notice of such delay, extension or termination to the exchange agent. Subject to the terms of the registration rights agreement, we also reserve the right to amend the terms of the exchange offer in any manner.

Any such delay in acceptance, extension, termination or amendment will be followed as promptly as practicable by oral or written notice thereof to the registered holders of outstanding notes. If we amend the exchange offer in a manner that we determine to constitute a material change, we will promptly disclose such amendment by means of a prospectus supplement. The supplement will be distributed to the registered holders of the outstanding notes. Depending upon the significance of the amendment and the manner of disclosure to the registered holders, we will extend the exchange offer if the exchange offer would otherwise expire during such period.

Conditions to the Exchange Offer

We will not be required to accept for exchange, or exchange any new notes for, any outstanding notes if the exchange offer, or the making of any exchange by a holder of outstanding notes, would violate applicable law or any applicable interpretation of the staff of the SEC. Similarly, we may terminate the exchange offer as provided in this prospectus before accepting outstanding notes for exchange in the event of such a potential violation.

In addition, we will not be obligated to accept for exchange the outstanding notes of any holder that has not made to us the representations described under "--Purpose and Effect of the Exchange Offer," "--Procedures for Tendering" and "Plan of Distribution" and such other representations as may be reasonably necessary under applicable SEC rules, regulations or interpretations to allow us to use an appropriate form to register the new notes under the Securities Act.

We expressly reserve the right to amend or terminate the exchange offer, and to reject for exchange any outstanding notes not previously accepted for exchange, upon the occurrence of any of the conditions to the exchange offer specified above. We will give oral or written notice of any extension, amendment, non-acceptance or termination to the holders of the outstanding notes as promptly as practicable.

These conditions are for our sole benefit, and we may assert them or waive them in whole or in part at any time or at various times in our sole discretion. If we fail at any time to exercise any of these rights, this failure will not mean that we have waived our rights. Each such right will be deemed an ongoing right that we may assert at any time or at various times.

In addition, we will not accept for exchange any outstanding notes tendered, and will not issue new notes in exchange for any such outstanding notes, if at such time any stop order has been threatened or is in effect with respect to the registration statement of which this prospectus constitutes a part or the qualification of the indenture relating to the notes under the Trust Indenture Act of 1939.

Procedures for Tendering

In order to participate in the exchange offer, you must properly tender your outstanding notes to the exchange agent as described below. It is your responsibility to properly tender your notes. We have the right to waive any defects. However, we are not required to waive defects and are not required to notify you of defects in your exchange.

If you have any questions or need help in exchanging your notes, please call the exchange agent whose address and phone number are described in the section of the prospectus entitled "Where You Can Find More Information."

All of the outstanding notes were issued in book-entry form, and all of the outstanding notes are currently represented by global certificates held for the account of DTC. We have confirmed with DTC that the outstanding notes may be tendered using the Automated Tender Offer Program ("ATOP") instituted by DTC. The exchange agent will establish an account with DTC for purposes of the exchange offer promptly after the commencement of the exchange offer and DTC participants may electronically transmit their acceptance of the exchange offer by causing DTC to transfer their outstanding notes to the exchange agent using the ATOP procedures. In connection with the transfer, DTC will send an "agent's message" to the exchange agent. The agent's message will state that DTC has received instructions from the participant to tender outstanding notes and that the participant agrees to be bound by the terms of the letter of transmittal.

By using the ATOP procedures to exchange outstanding notes, you will not be required to deliver a letter of transmittal to the exchange agent. However, you will be bound by its terms just as if you had signed it.

There is no procedure for guaranteed late delivery of the notes.

Determinations Under the Exchange Offer

We will determine in our sole discretion all questions as to the validity, form, eligibility, time of receipt, acceptance of tendered outstanding notes and withdrawal of tendered outstanding notes. Our determination will be final and binding. We reserve the absolute right to reject any outstanding notes not properly tendered or any outstanding notes our acceptance of which would, in the opinion of our counsel, be unlawful. We also reserve the right to waive any defect, irregularities or conditions of tender as to particular outstanding notes. Our interpretation of the terms and conditions of the exchange offer, including the instructions in the letter of transmittal, will be final and binding on all parties. Unless waived, all defects or irregularities in connection with tenders of outstanding notes must be cured within such time as we shall determine. Although we intend to notify holders of defects or irregularities with respect to tenders of outstanding notes, neither we, the exchange agent nor any other person will incur any liability for failure to give such notification. Tendere of outstanding notes

will not be deemed made until such defects or irregularities have been cured or waived. Any outstanding notes received by the exchange agent that are not properly tendered and as to which the defects or irregularities have not been cured or waived will be returned to the tendering holder as soon as practicable following the expiration date.

When We Will Issue New Notes

In all cases, we will issue new notes for outstanding notes that we have accepted for exchange under the exchange offer only after the exchange agent receives, prior to 5:00 p.m., New York City time, on the expiration date,

- . a book-entry confirmation of such outstanding notes into the exchange agent's account at DTC; and
- . a properly transmitted agent's message.

Return of Outstanding Notes Not Accepted or Exchanged

If we do not accept any tendered outstanding notes for exchange or if outstanding notes are submitted for a greater principal amount than the holder desires to exchange, the unaccepted or non-exchanged outstanding notes will be returned without expense to their tendering holder. Such non-exchanged outstanding notes will be credited to an account maintained with DTC. These actions will occur as promptly as practicable after the expiration or termination of the exchange offer.

Your Representations to Us

By agreeing to be bound by the letter of transmittal, you will represent to us that, among other things:

- . any new notes that you receive will be acquired in the ordinary course of your business;
- . you have no arrangement or understanding with any person or entity to participate in the distribution of the new notes;
- . you are not engaged in and do not intend to engage in the distribution of the new notes;
- . if you are a broker-dealer that will receive new notes for your own account in exchange for outstanding notes, you acquired those notes as a result of market-making activities or other trading activities and you will deliver a prospectus, as required by law, in connection with any resale of such new notes; and
- . you are not our "affiliate," as defined in Rule 405 of the Securities Act.

Withdrawal of Tenders

Except as otherwise provided in this prospectus, you may withdraw your tender at any time prior to 5:00 p.m. New York City time on the expiration date. For a withdrawal to be effective you must comply with the appropriate procedures of DTC's ATOP system. Any notice of withdrawal must specify the name and number of the account at DTC to be credited with withdrawn outstanding notes and otherwise comply with the procedures of DTC.

We will determine all questions as to the validity, form, eligibility and time of receipt of notice of withdrawal. Our determination shall be final and binding on all parties. We will deem any outstanding notes so withdrawn not to have been validly tendered for exchange for purposes of the exchange offer.

Any outstanding notes that have been tendered for exchange but that are not exchanged for any reason will be credited to an account maintained with DTC for the outstanding notes. This return or crediting will take place as soon as practicable after withdrawal, rejection of tender or termination of the exchange offer. You may retender properly withdrawn outstanding notes by following the procedures described under "--Procedures for Tendering" above at any time on or prior to the expiration date.

Fees and Expenses

We will bear the expenses of soliciting tenders. The principal solicitation is being made by mail; however, we may make additional solicitation by telegraph, telephone or in person by our officers and regular employees and those of our affiliates.

We have not retained any dealer-manager in connection with the exchange offer and will not make any payments to broker-dealers or others soliciting acceptances of the exchange offer. We will, however, pay the exchange agent reasonable and customary fees for its services and reimburse it for its related reasonable out-of-pocket expenses.

We will pay the cash expenses to be incurred in connection with the exchange offer. They include:

- . SEC registration fees;
- . fees and expenses of the exchange agent and trustee;
- . accounting and legal fees and printing costs; and
- . related fees and expenses.

Transfer Taxes

We will pay all transfer taxes, if any, applicable to the exchange of outstanding notes under the exchange offer. The tendering holder, however, will be required to pay any transfer taxes, whether imposed on the registered holder or any other person, if a transfer tax is imposed for any reason other than the exchange of outstanding notes under the exchange offer.

Consequences of Failure to Exchange

If you do not exchange new notes for your outstanding notes under the exchange offer, you will remain subject to the existing restrictions on transfer of the outstanding notes. In general, you may not offer or sell the outstanding notes unless they are registered under the Securities Act, or if the offer or sale is exempt from the registration under the Securities Act and applicable state securities laws. Except as required by the registration rights agreement, we do not intend to register resales of the outstanding notes under the Securities Act.

Accounting Treatment

We will record the new notes in our accounting records at the same carrying value as the outstanding notes. This carrying value is the aggregate principal amount of the outstanding notes less any bond discount, as reflected in our accounting records on the date of exchange. Accordingly, we will not recognize any gain or loss for accounting purposes in connection with the exchange offer.

Other

Participation in the exchange offer is voluntary, and you should carefully consider whether to accept. You are urged to consult your financial and tax advisors in making your own decision on what action to take.

We may in the future seek to acquire untendered outstanding notes in open market or privately negotiated transactions, through subsequent exchange offers or otherwise. We have no present plans to acquire any outstanding notes that are not tendered in the exchange offer or to file a registration statement to permit resales of any untendered outstanding notes.

RATIOS OF EARNINGS TO FIXED CHARGES

For purposes of determining the ratio of earnings to fixed charges, earnings are defined as net income (loss) before income taxes, extraordinary items, amortization of capitalized interest and fixed charges, less capitalized interest. Fixed charges consist of interest (whether expensed or capitalized), and amortization of debt expenses and discount or premium relating to any indebtedness.

Year Ended December 31,				
-----	-----	-----	-----	-----
1998	1999	2000	2001	2002
-----	-----	-----	-----	-----

Ratio of earnings to fixed charges (a) 1.4x 3.1x 5.1x 1.5x

- - - - -
(a) Earnings for such year were insufficient to cover fixed charges by approximately \$915 million.

USE OF PROCEEDS

The exchange offer is intended to satisfy our obligations under the registration rights agreement. We will not receive any cash proceeds from the issuance of the new notes in the exchange offer. In consideration for issuing the new notes as contemplated by this prospectus, we will receive outstanding notes in a like principal amount. The form and terms of the new notes are identical in all respects to the form and terms of the outstanding notes, except the new notes do not include certain transfer restrictions. Outstanding notes surrendered in exchange for the new notes will be retired and cancelled and will not be reissued. Accordingly, the issuance of the new notes will not result in any change in our outstanding indebtedness.

DESCRIPTION OF THE NEW NOTES

The new notes will be issued, and the outstanding notes were issued, pursuant to an indenture dated as of March 5, 2003 (the "Indenture") among the Company, as issuer, the Subsidiary Guarantors, as guarantors, and The Bank of New York, as trustee (the "Trustee"). The terms of the new notes include those stated in the Indenture and those made part of the Indenture by the Trust Indenture Act of 1939, as amended (the "Trust Indenture Act"). The definitions of certain capitalized terms used in the following summary are set forth below under "--Certain Definitions." References to the "Notes" in this section of the prospectus include both the outstanding notes and the new notes.

The following description is only a summary of the material provisions of the Indenture. It does not restate that agreement in its entirety. The Company urges Holders to read the Indenture because it, and not this description, defines the rights of Holders of these notes. The Company has filed the Indenture as an exhibit to the registration statement which includes this prospectus.

If the exchange offer contemplated by this prospectus (the "Exchange Offer") is consummated, Holders of outstanding notes who do not exchange those notes for new notes in the Exchange Offer will vote together with Holders of new notes for all relevant purposes under the Indenture. In that regard, the Indenture requires that certain actions by the Holders thereunder (including acceleration following an Event of Default) must be taken, and certain rights must be exercised, by specified minimum percentages of the aggregate principal amount of the outstanding securities issued under the Indenture. In determining whether Holders of the requisite percentage in principal amount have given any notice, consent or waiver or taken any other action permitted under the Indenture, any outstanding notes that remain outstanding after the Exchange Offer will be aggregated with the new notes, and the Holders of such outstanding notes and the new notes will vote together as a single series for all such purposes. Accordingly, all references herein to specified percentages in aggregate principal amount of the notes outstanding shall be deemed to mean, at any time after the Exchange Offer is consummated, such percentages in aggregate principal amount of the outstanding notes and the new notes then outstanding.

Brief Description of the Notes

The Notes:

- . are unsecured senior indebtedness of the Company;
- . are unlimited in aggregate principal amount, of which \$300,000,000 are outstanding;
- . are senior in right of payment to all future Subordinated Indebtedness of the Company; and
- . rank equally in right of payment with all existing and future Senior Indebtedness.

The new notes will be issued, and the outstanding notes were issued, only in registered form, without coupons, in denominations of \$1,000 and integral multiples thereof.

Any outstanding notes that remain outstanding after the completion of the Exchange Offer, together with the new notes issued in connection with the Exchange Offer and any other notes issued under the indenture then outstanding, will be treated as a single class of securities under the Indenture.

The Company may issue the notes from time to time with an unlimited maximum aggregate principal amount, of which \$300 million were issued on March 5, 2003. Any notes issued in the future ("Add On Notes") will be subject to the debt incurrence covenant described in the first paragraph of "--Certain Covenants--Limitations on Incurrence of Additional Indebtedness." Any Add On Notes that are actually issued will be treated as issued and outstanding Notes (as the same class as the new notes) for all purposes of the Indenture and this "Description of the New Notes," unless the context indicates otherwise.

Each Note will mature on September 15, 2013 and will bear interest at the rate of interest per annum indicated on the cover page of this prospectus.

Interest on the new notes will accrue from March 5, 2003, and will be payable semiannually in arrears on March 15 and September 15 of each year, commencing September 15, 2003. We will make each interest payment to the holders of record of the Notes at the close of business on the March 1 or September 1 preceding such interest payment date. Interest will be computed on the basis of a 360-day year of twelve 30-day months. Principal, premium, if any, and interest will be payable at the offices of the Trustee and the Paying Agent, provided that, at the option of the Company, payment of interest on Notes not in global form may be made by check mailed to the address of the Person entitled thereto as it appears in the register of the Notes maintained by the Registrar. Initially, the Trustee will also act as Paying Agent and Registrar for the Notes.

Guarantees

All the existing subsidiaries of the Company, other than Chesapeake Energy Marketing, Inc., will fully and unconditionally guarantee, on a joint and several basis, the Company's obligations to pay principal of, premium, if any, and interest on the Notes. The Indenture provides that each Person that becomes a Restricted Subsidiary after the Issue Date will guarantee the payment of the Notes.

The obligations of each Subsidiary Guarantor under its Guarantee will be limited as necessary to prevent that Guarantee from constituting a fraudulent conveyance or fraudulent transfer under federal, state or foreign law. Each Subsidiary Guarantor that makes a payment or distribution under a Guarantee shall be entitled to a contribution from each other Subsidiary Guarantor in a pro rata amount based on the respective net assets of each Subsidiary Guarantor at the time of such payment determined in accordance with GAAP.

If a Guarantee were rendered voidable, it could be subordinated by a court to all other indebtedness (including guarantees and other contingent liabilities) of the applicable Subsidiary Guarantor, and, depending on the amount of such indebtedness, a Subsidiary Guarantor's liability on its Guarantee could be reduced to zero. Please read "Risk Factors--Risks Related to The Exchange Offer and the New Notes--A guarantee could be voided if the guarantor fraudulently transferred the guarantee at the time it incurred the indebtedness, which could result in the noteholders being able to rely on only Chesapeake to satisfy claims."

Subject to the next succeeding paragraph, no Subsidiary Guarantor may consolidate or merge with or into (whether or not such Subsidiary Guarantor is the surviving Person) another Person unless:

- (1) the Person formed by or surviving any such consolidation or merger (if other than such Subsidiary Guarantor) assumes all the obligations of such Subsidiary Guarantor under the Indenture and the Notes pursuant to a supplemental indenture, in a form reasonably satisfactory to the Trustee,
- (2) immediately after such transaction, no Default or Event of Default exists,
- (3) such Subsidiary Guarantor or the Person formed by or surviving any such consolidation or merger will have Consolidated Tangible Net Worth immediately after the transaction equal to or greater than the Consolidated Tangible Net Worth of such Subsidiary Guarantor immediately preceding the transaction, and
- (4) the Company will, at the time of such transaction after giving pro forma effect thereto as if such transaction had occurred at the beginning of the Reference Period, be permitted to incur at least \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to the "--Limitation on Incurrence of Additional Indebtedness" covenant.

The preceding does not prohibit a merger between Subsidiary Guarantors or a merger between the Company and a Subsidiary Guarantor.

In the event of a sale or other disposition of all or substantially all of the assets of any Subsidiary Guarantor, or a sale or other disposition of all the Capital Stock of such Subsidiary Guarantor, in any case whether by way of

merger, consolidation or otherwise, or a Subsidiary Guarantor otherwise ceases to be a Subsidiary Guarantor, then the Person acquiring the assets (in the event of a sale or other disposition, by way of such a merger, consolidation or otherwise, of all or substantially all of the assets of such Subsidiary Guarantor) or such Subsidiary Guarantor (in any other event) will be released and relieved of any obligations under its Guarantee. Additionally, upon the designation by the Board of Directors of a Subsidiary Guarantor as an Unrestricted Subsidiary in accordance with the provisions described in the definition of "Unrestricted Subsidiary" below, the Subsidiary Guarantor will be deemed released and relieved of any obligations under its Guarantee.

Ranking

Senior Indebtedness versus Notes. The Indebtedness evidenced by the Notes and the Guarantees is unsecured and ranks pari passu in right of payment to all Senior Indebtedness of the Company and the Subsidiary Guarantors, as the case may be.

As of March 31, 2003, Senior Indebtedness of the Company and the Subsidiary Guarantors was approximately \$1.98 billion, none of which was secured indebtedness.

The Notes are unsecured obligations of the Company. Secured debt and other secured obligations of the Company and the Subsidiary Guarantors (including obligations with respect to our current bank credit facility) is effectively senior to the Notes to the extent of the value of the assets securing such debt or other obligations.

Liabilities of Subsidiaries versus Notes. A substantial portion of the Company's operations is conducted through its subsidiaries. Claims of creditors of such subsidiaries that are not Subsidiary Guarantors, including trade creditors and creditors holding indebtedness or guarantees issued by such subsidiaries, and claims of preferred stockholders of such subsidiaries have priority with respect to the assets and earnings of such subsidiaries over the claims of the Company's creditors, including holders of the Notes. Accordingly, the Notes are effectively subordinated to creditors (including trade creditors) and preferred stockholders, if any, of the Company's subsidiaries that are not Subsidiary Guarantors. All of the Company's subsidiaries, other than Chesapeake Energy Marketing, Inc., will be Subsidiary Guarantors. As of the date of this prospectus, the non-guarantor subsidiary has no outstanding indebtedness.

Although the Indenture limits the incurrence of Indebtedness (including some types of preferred stock) of the Restricted Subsidiaries, such limitations are subject to a number of significant qualifications. In addition, the Indenture does not impose any limitations on the incurrence by the Restricted Subsidiaries of liabilities that are not considered Indebtedness under the Indenture. Please read "--Certain Covenants--Limitation on Incurrence of Additional Indebtedness." Moreover, the Indenture does not impose any limitation on the incurrence by any Unrestricted Subsidiary of Indebtedness (including preferred stock).

Optional Redemption

At any time on or after September 15, 2008, the Company may, at its option, redeem all or any portion of the Notes at the applicable redemption prices (expressed as percentages of the principal amount of the Notes) described below, plus, in each case, accrued but unpaid interest thereon to the applicable redemption date if the Notes are redeemed during the twelve-month period beginning on September 15 of the years set forth below:

Year	Redemption Price
----	-----
2008.....	103.750%
2009.....	102.500%
2010.....	101.250%
2011 and thereafter	100.000%

Notwithstanding the foregoing, at any time prior to September 15, 2008, the Company may, at its option, redeem all or any portion of the Notes at the Make-Whole Price plus accrued and unpaid interest to the date of redemption. In addition, in the event the Company consummates one or more Equity Offerings on or prior to September 15, 2006, the Company, at its option, may redeem up to 35% of the aggregate principal amount of the Notes (which includes Add On Notes, if any) issued under the Indenture with all or a portion of the aggregate net proceeds received by the Company from such Equity Offerings at a redemption price of 107.50%, plus accrued and unpaid interest thereon to the redemption date; provided, however, that

- . the date of such redemption occurs within the 90-day period after the Equity Offering in respect of which such redemption is made and
- . following each such redemption, at least 65% of the aggregate principal amount of the Notes (which includes Add On Notes, if any) issued under the Indenture remain outstanding.

Change of Control

The Indenture provides that, following the occurrence of any Change of Control, the Company must offer to purchase all outstanding Notes at a purchase price equal to 101% of the aggregate principal amount of the Notes, plus accrued and unpaid interest to the date of purchase.

Within 15 days after any Change of Control, the Company will mail or cause to be mailed to all Holders on the date of the Change of Control a Notice (the "Change of Control Notice") of the occurrence of such Change of Control and of the Holders' rights arising as a result thereof. The Change of Control Notice shall state, among other things:

- (1) that the change of control offer is being made pursuant to this covenant;
- (2) the purchase price and the change of control payment date;
- (3) that any Note not tendered will continue to accrue interest;
- (4) that any Note accepted for payment pursuant to the change of control offer shall cease to accrue interest on the change of control payment date; and
- (5) the instructions, consistent with the covenant described hereunder, that a Holder must follow in order to have such Holder's Notes purchased.

The change of control offer will be deemed to have commenced upon mailing of a notice pursuant to the Indenture and will terminate 20 business days after its commencement, unless a longer offering period is required by law. Promptly after the termination of the change of control offer, the Company will purchase and mail or deliver payment for all Notes tendered in response to the change of control offer.

On the change of control payment date, the Company will, to the extent lawful:

- . accept for payment Notes or portions thereof tendered pursuant to the change of control offer,
- . deposit with the paying agent an amount equal to the change of control payment in respect of all Notes or portions thereof so tendered and
- . deliver to the Trustee the Notes so accepted together with an officers' certificate stating the Notes or portions thereof tendered to the Company. The paying agent will promptly mail or deliver to each Holder of Notes so accepted payment in an amount equal to the purchase price for such Notes, and the Trustee will promptly authenticate and mail or deliver to each Holder a new Note equal in principal amount to any unpurchased portion of the Notes surrendered, if any, provided that each such new Note will be in a principal amount of \$1,000 or an integral multiple thereof.

The Company will comply with Section 14 of the Exchange Act and the provisions of Regulation 14E and any other tender offer rules under the Exchange Act and any other federal and state securities laws, rules and regulations which may then be applicable to any change of control offer.

The Change of Control purchase feature of the Notes may in certain circumstances make more difficult or discourage a sale or takeover of the Company. The change of control purchase feature is a result of negotiations between the Company and the initial purchasers. The Company has no present intention to engage in a transaction involving a Change of Control, although it is possible that it could decide to do so in the future. Subject to the limitations discussed below, the Company could, in the future, enter into certain transactions, including acquisitions, refinancings or other recapitalizations, that would not constitute a Change of Control under the Indenture, but that could increase the amount of indebtedness outstanding at such time or otherwise affect the Company's capital structure or credit ratings. Restrictions on the Company's ability to incur additional Indebtedness are contained in the covenants described under "--Certain Covenants--Limitation on Incurrence of Additional Indebtedness," "--Limitation on Liens" and "--Limitation on Sale/Leaseback Transactions." Under the Indenture, such restrictions can only be waived with the consent of the Holders of a majority in principal amount of the Notes then outstanding. Except for the limitations contained in such covenants, however, the Indenture does not contain any covenants or provisions that may afford Holders of the Notes protection in the event of a highly leveraged transaction.

Future indebtedness that the Company may incur may contain prohibitions on the occurrence of certain events that would constitute a Change of Control or require the repurchase of such indebtedness upon a Change of Control. Moreover, the exercise by the Holders of their right to require the Company to repurchase the Notes could cause a default under such indebtedness, even if the Change of Control itself does not, due to the financial effect of such repurchase on the Company. Finally, the Company's ability to pay cash to the Holders of Notes following the occurrence of a Change of Control may be limited by the Company's then existing financial resources. There can be no assurance that sufficient funds will be available when necessary to make any required repurchases.

The provisions under the Indenture relative to the Company's obligation to make an offer to repurchase the Notes as a result of a Change of Control may be waived or modified with the written consent of the Holders of a majority in principal amount of the Notes.

Certain Covenants

The following restrictive covenants are applicable to the Company and its Restricted Subsidiaries.

Limitation on Incurrence of Additional Indebtedness. The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, issue, incur, assume, guarantee, become liable, contingently or otherwise, with respect to or otherwise become responsible for the payment of (collectively, "incur") any Indebtedness; provided, however, that if no Default or Event of Default shall have occurred and be continuing at the time or as a consequence of the incurrence of such Indebtedness, the Company or its Restricted Subsidiaries may incur Indebtedness if, on a pro forma basis, after giving effect to such incurrence and the application of the proceeds therefrom, either of the following tests shall have been satisfied: (1) the Adjusted Consolidated EBITDA Coverage Ratio would have been at least 2.25 to 1.0 or (2) Adjusted Consolidated Net Tangible Assets would have been greater than 200% of Indebtedness of the Company and its Restricted Subsidiaries.

Notwithstanding the preceding, if no Default or Event of Default shall have occurred and be continuing at the time or as a consequence of the incurrence of such Indebtedness, the Company and its Restricted Subsidiaries may incur Permitted Indebtedness. For purposes of determining compliance with this covenant:

(1) in the event that an item of proposed Indebtedness meets the criteria of more than one of the categories of Permitted Indebtedness as of the date of incurrence thereof or is entitled to be incurred pursuant to the first paragraph of this covenant as of the date of incurrence thereof, the Company shall, in its

sole discretion, classify (or later classify in whole or in part, in its sole discretion) such item of Indebtedness in any manner that complies with this covenant; and

(2) for purposes of determining compliance with any dollar-denominated restriction on the incurrence of Indebtedness denominated in a foreign currency, the dollar-equivalent principal amount of such Indebtedness incurred pursuant thereto shall be calculated based on the relevant currency.

Accrual of interest or dividends, the accretion of accreted value or liquidation preference and the payment of interest or dividends in the form of additional Indebtedness will not be deemed to be an incurrence of Indebtedness for purposes of this covenant.

Any Indebtedness of a Person existing at the time such Person becomes a Restricted Subsidiary (whether by merger, consolidation, acquisition or otherwise) shall be deemed to be incurred by such Restricted Subsidiary at the time it becomes a Restricted Subsidiary.

Limitation on Restricted Payments. The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, make any Restricted Payment, unless:

(1) no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to such Restricted Payment;

(2) at the time of and immediately after giving effect to such Restricted Payment, the Company would be able to incur at least \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to the first paragraph of the covenant captioned "--Limitation on Incurrence of Additional Indebtedness"; and

(3) immediately after giving effect to such Restricted Payment, the aggregate of all Restricted Payments declared or made after the Reference Date does not exceed the sum of

(A) 50% of the Consolidated Net Income of the Company and its Restricted Subsidiaries (or in the event such Consolidated Net Income shall be a deficit, minus 100% of such deficit) during the period (treated as one accounting period) subsequent to the Reference Date and ending on the last day of the fiscal quarter immediately preceding the date of such Restricted Payment;

(B) the aggregate Net Cash Proceeds, and the fair market value of property other than cash (as determined in good faith by the Company's Board of Directors and evidenced by a resolution of such Board), received by the Company during such period from any Person other than a Subsidiary of the Company as a result of the issuance or sale of Capital Stock of the Company (other than any Disqualified Stock and other than Preferred Stock issued in the Preferred Stock Offering), other than in connection with the conversion of Indebtedness or Disqualified Stock;

(C) the aggregate Net Cash Proceeds, and the fair market value of property other than cash (as determined in good faith by the Company's Board of Directors and evidenced by a resolution of such Board), received by the Company during such period from any Person other than a Subsidiary of the Company as a result of the issuance or sale of any Indebtedness or Disqualified Stock to the extent that at the time the determination is made such Indebtedness or Disqualified Stock, as the case may be, has been converted into or exchanged for Capital Stock of the Company (other than Disqualified Stock); and

(D) (i) in case any Unrestricted Subsidiary has been redesignated a Restricted Subsidiary, an amount equal to the lesser of (x) the book value (determined in accordance with GAAP) at the date of such redesignation of the aggregate Investments made by the Company and its Restricted Subsidiaries in such Unrestricted Subsidiary and (y) the fair market value of such Investments in such Unrestricted Subsidiary at the time of such redesignation (determined in good faith by the Company's Board of Directors, including a majority of the Company's Disinterested Directors, whose determination shall be conclusive and evidenced by a resolution of such Board); or (ii) in case any Restricted Subsidiary has

been redesignated an Unrestricted Subsidiary, minus the greater of (x) the book value (determined in accordance with GAAP) at the date of redesignation of the aggregate Investments made by the Company and its Restricted Subsidiaries in such Restricted Subsidiary and (y) the fair market value of such Investments in such Restricted Subsidiary at the time of such redesignation (determined in good faith by the Company's Board of Directors, including a majority of the Company's Disinterested Directors, whose determination shall be conclusive and evidenced by a resolution of such Board).

Notwithstanding the preceding, the above limitations will not prevent:

(1) the payment of any dividend within 60 days after the date of declaration thereof, if at such date of declaration such payment complied with the provisions hereof;

(2) the purchase, redemption, acquisition or retirement of any shares of Capital Stock of the Company in exchange for, or out of the net proceeds of the substantially concurrent sale (other than to a Restricted Subsidiary of the Company) of, other shares of Capital Stock (other than Disqualified Stock) of the Company;

(3) any dividend or other distribution payable from a Restricted Subsidiary to the Company or any other Restricted Subsidiary;

(4) regular quarterly dividends on the 6.75% Cumulative Convertible Preferred Stock or the 6.00% Cumulative Convertible Preferred Stock of the Company outstanding on the Issue Date, provided that no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to any such Restricted Payment; and

(5) other Restricted Payments not in excess of \$25 million in the aggregate since the Issue Date, provided that no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to any such Restricted Payment.

Any Restricted Payment described in the preceding clause (3) shall be excludable in the calculation of the amount of Restricted Payments, and any Restricted Payment described in any other clause shall be included in the calculation.

Limitation on Sale of Assets. The Company will not, and will not permit any Restricted Subsidiary to, make any Asset Sale unless:

(1) the Company (or its Restricted Subsidiaries, as the case may be) receives consideration at the time of such sale or other disposition at least equal to the fair market value thereof (as determined in good faith by the Company's Board of Directors and evidenced by a resolution of such Board, including a majority of the Company's Disinterested Directors, in the case of any Asset Sales or series of related Asset Sales having a fair market value of \$20 million or greater);

(2) (A) the consideration consists of cash, cash equivalents, Permitted Financial Investments or property, equipment, leasehold interests or other assets used in the Oil and Gas Business ("Permitted Consideration") or (B) the portion of the consideration that does not constitute Permitted Consideration, together with all other consideration received for Asset Sales since the Issue Date that does not constitute Permitted Consideration, has a fair market value of no more than 10% of ACNTA; and

(3) the Net Available Proceeds received by the Company (or its Restricted Subsidiaries, as the case may be) from such Asset Sale are applied in accordance with the following two paragraphs.

The Company may apply such Net Available Proceeds, within 365 days following the receipt of Net Available Proceeds from any Asset Sale, to:

(1) the repayment of Indebtedness of the Company under Credit Facilities or other Senior Indebtedness, including any mandatory redemption or repurchase or optional redemption of the Existing Notes or the Notes;

- (2) make an Investment in assets used in the Oil and Gas Business; or
- (3) develop by drilling the Company's oil and gas reserves.

If, upon completion of the 365-day period, any portion of the Net Available Proceeds of any Asset Sale shall not have been applied by the Company as described in clauses (1), (2) or (3) in the immediately preceding paragraph and such remaining Net Available Proceeds, together with any remaining net cash proceeds from any prior Asset Sale (such aggregate constituting "Excess Proceeds"), exceed \$15 million, then the Company will be obligated to make an offer (the "Net Proceeds Offer") to purchase the Notes and any other Senior Indebtedness in respect of which such an offer to purchase is also required to be made concurrently with the Net Proceeds Offer having an aggregate principal amount equal to the Excess Proceeds (such purchase to be made on a pro rata basis if the amount available for such repurchase is less than the principal amount of the Notes and other such Senior Indebtedness tendered in such Net Proceeds Offer) at a purchase price of 100% of the principal amount thereof plus accrued interest to the date of repurchase. Upon the completion of the Net Proceeds Offer, the amount of Excess Proceeds will be reset to zero.

Any Net Proceeds Offer will be conducted in substantially the same manner as a change of control offer. The Company will comply with Section 14 of the Exchange Act and the provisions of Regulation 14E and any other tender offer rules under the Exchange Act and any other federal and state securities laws, rules and regulations which may then be applicable to any Net Proceeds Offer.

During the period between any Asset Sale and the application of the Net Available Proceeds therefrom in accordance with this covenant, all Net Available Proceeds shall be maintained in a segregated account and shall be invested in Permitted Financial Investments.

Notwithstanding the preceding, the Company will not, and will not permit any Restricted Subsidiary to, directly or indirectly, make any Asset Sale of any of the Capital Stock of a Restricted Subsidiary except pursuant to an Asset Sale of all of the Capital Stock of such Restricted Subsidiary.

Limitation on Liens. The Company will not, and will not permit any Restricted Subsidiary to, create, incur, assume or suffer to exist any Liens (other than Permitted Liens) upon any of their respective properties securing any Indebtedness of the Company or any Restricted Subsidiary, unless the Notes are equally and ratably secured; provided that if such Indebtedness is expressly subordinated to the Notes or the Guarantees, the Lien securing such Indebtedness will be subordinated and junior to the Lien securing the Notes or the Guarantees.

Limitation on Sale/Leaseback Transactions. The Company will not, and will not permit any Restricted Subsidiary to, enter into any Sale/Leaseback Transaction with any Person (other than the Company or any other Restricted Subsidiary) unless:

- (1) the Company or such Restricted Subsidiary would be entitled to incur Indebtedness, in a principal amount equal to the Attributable Indebtedness with respect to such Sale/Leaseback Transaction in accordance with the covenant captioned "-- Limitation on Incurrence of Additional Indebtedness;" or

- (2) the Company or such Restricted Subsidiary receives proceeds from such Sale/Leaseback Transactions at least equal to the fair market value thereof (as determined in good faith by the Company's Board of Directors, whose determination in good faith, evidenced by a resolution of such Board, shall be conclusive) and such proceeds are applied in the same manner and to the same extent as Net Available Proceeds and Excess Proceeds from an Asset Sale.

Limitations on Mergers and Consolidations. The Company will not consolidate or merge with or into any Person, or sell, convey, lease or otherwise dispose of all or substantially all of its assets to any Person, unless:

- (1) the Person formed by or surviving such consolidation or merger (if other than the Company), or to which such sale, lease, conveyance or other disposition or assignment shall be made (collectively, the

"Successor"), is a corporation organized and existing under the laws of the United States or any state thereof or the District of Columbia, or Canada or any province thereof, and the Successor assumes by supplemental indenture in a form satisfactory to the Trustee all of the obligations of the Company under the Indenture and under the Notes;

(2) immediately before and after giving effect to such transaction, no Event of Default shall have occurred and be continuing;

(3) immediately after giving effect to such transaction on a pro forma basis, the Consolidated Tangible Net Worth of the Company (or the Successor) is equal to or greater than the Consolidated Tangible Net Worth of the Company immediately before such transaction; and

(4) immediately after giving effect to such transaction on a pro forma basis, the Company (or the Successor) would be able to incur \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to the first paragraph of the covenant captioned "--Limitation on Incurrence of Additional Indebtedness."

Limitation on Payment Restrictions Affecting Subsidiaries. The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, create or otherwise cause or suffer to exist or become effective any consensual encumbrance or consensual restriction on the ability of any Restricted Subsidiary of the Company to:

(1) pay dividends or make any other distributions on its Capital Stock to the Company or a Restricted Subsidiary;

(2) pay any Indebtedness owed to the Company or a Restricted Subsidiary of the Company;

(3) make loans or advances to the Company or a Restricted Subsidiary of the Company; or

(4) transfer any of its properties or assets to the Company or a Restricted Subsidiary of the Company (each, a "Payment Restriction");

except for (a) encumbrances or restrictions under Credit Facilities, provided that any Payment Restrictions thereunder (other than, with respect to (4) above, customary restrictions in security agreements or other loan documents thereunder securing or governing Indebtedness of a Restricted Subsidiary) may be imposed only upon the acceleration of the maturity of the Indebtedness thereunder; (b) consensual encumbrances or consensual restrictions binding upon any Person at the time such Person becomes a Restricted Subsidiary of the Company (unless the agreement creating such consensual encumbrances or consensual restrictions was entered into in connection with, or in contemplation of, such entity becoming a Restricted Subsidiary); (c) consensual encumbrances or consensual restrictions under any agreement that refinances or replaces any agreement described in clauses (a) and (b) above, provided that the terms and conditions of any such restrictions are no less favorable to the Holders of Notes than those under the agreement so refinanced or replaced; and (d) customary non-assignment provisions in leases, purchase money financings and any encumbrance or restriction due to applicable law.

Limitation on Transactions with Affiliates. The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, enter into any transaction or series of transactions (including, without limitation, the sale, purchase or lease of any assets or properties or the rendering of any services) with any Affiliate or beneficial owner (as defined in Rules 13d-3 and 13d-5 under the Exchange Act) of 10% or more of the Company's common stock (other than with a Restricted Subsidiary) (an "Affiliate Transaction"), on terms that are less favorable to the Company or such Restricted Subsidiary, as the case may be, than would be available in a comparable transaction with an unrelated Person. In addition, the Company will not, and will not permit any Restricted Subsidiary of the Company to, enter into an Affiliate Transaction, or any series of related Affiliate Transactions having a value of:

(1) more than \$5 million, unless a majority of the Board of Directors of the Company (including a majority of the Company's Disinterested Directors) determines in good faith, as evidenced by a resolution

of such Board, that such Affiliate Transaction or series of related Affiliate Transactions is fair to the Company; or

(2) more than \$25 million, unless the Company receives a written opinion from a nationally recognized investment banking firm with total assets in excess of \$1.0 billion that such transaction or series of transactions is fair to the Company from a financial point of view.

SEC Reports. Notwithstanding that the Company may not be required to remain subject to the reporting requirements of Section 13 or 15(d) of the Exchange Act, the Company will file with the SEC and provide the Trustee and Holders with annual reports and such information, documents and other reports specified in Sections 13 and 15(d) of the Exchange Act.

Certain Definitions

The following is a summary of certain defined terms used in the Indenture. Reference is made to the Indenture for the full definition of all such terms and for the definitions of capitalized terms used in this prospectus and not defined below.

"Adjusted Consolidated EBITDA" means the Consolidated Net Income of the Company and its Restricted Subsidiaries for the Reference Period, (a) increased (to the extent deducted in determining Consolidated Net Income) by the sum, without duplication, of:

(1) all income and state franchise taxes of the Company and its Restricted Subsidiaries paid or accrued according to GAAP for such period (other than income taxes attributable to extraordinary, unusual or non-recurring gains or losses);

(2) all interest expense of the Company and its Restricted Subsidiaries paid or accrued in accordance with GAAP for such period (including amortization of original issue discount or premium);

(3) depreciation and depletion of the Company and its Restricted Subsidiaries;

(4) amortization of the Company and its Restricted Subsidiaries including, without limitation, amortization of capitalized debt issuance costs;

(5) any loss realized in accordance with GAAP upon the sale or other disposition of any property, plant or equipment of the Company or its Restricted Subsidiaries (including pursuant to any Sale/Leaseback Transaction) which is not sold or otherwise disposed of in the ordinary course of business and any loss realized in accordance with GAAP upon the sale or other disposition of any Capital Stock of any Person;

(6) any loss realized in accordance with GAAP from currency exchange transactions not in the ordinary course of business consistent with past practice;

(7) any loss net of income taxes realized in accordance with GAAP attributable to extraordinary items;

(8) any charges associated solely with the prepayment of any Indebtedness; and

(9) any other non-cash charges to the extent deducted from Consolidated Net Income

and (b) decreased (to the extent included in determining Consolidated Net Income) by the sum of

(1) the amount of deferred revenues that are amortized during the Reference Period and are attributable to reserves that are subject to Volumetric Production Payments and

(2) amounts recorded in accordance with GAAP as repayments of principal and interest pursuant to Dollar-Denominated Production Payments.

"Adjusted Consolidated EBITDA Coverage Ratio" means, for any Reference Period, the ratio on a pro forma basis of (a) Adjusted Consolidated EBITDA for the Reference Period to (b) Adjusted Consolidated Interest Expense for such Reference Period; provided, that, in calculating Adjusted Consolidated EBITDA and Adjusted Consolidated Interest Expense

(1) acquisitions which occurred during the Reference Period or subsequent to the Reference Period and on or prior to the date of the transaction giving rise to the need to calculate the Adjusted Consolidated EBITDA Coverage Ratio (the "Transaction Date") shall be assumed to have occurred on the first day of the Reference Period,

(2) the incurrence of any Indebtedness (including the issuance of the Notes) or issuance of any Disqualified Stock during the Reference Period or subsequent to the Reference Period and on or prior to the Transaction Date shall be assumed to have occurred on the first day of such Reference Period,

(3) any Indebtedness that had been outstanding during the Reference Period that has been repaid on or prior to the Transaction Date shall be assumed to have been repaid as of the first day of such Reference Period,

(4) the Adjusted Consolidated Interest Expense attributable to interest on any Indebtedness or dividends on any Disqualified Stock bearing a floating interest (or dividend) rate shall be computed on a pro forma basis as if the rate in effect on the Transaction Date were the average rate in effect during the entire Reference Period and

(5) in determining the amount of Indebtedness pursuant to the covenant captioned "Limitation on Incurrence of Additional Indebtedness," the incurrence of Indebtedness or issuance of Disqualified Stock giving rise to the need to calculate the Adjusted Consolidated EBITDA Coverage Ratio and, to the extent the net proceeds from the incurrence or issuance thereof are used to retire Indebtedness, the application of the proceeds therefrom shall be assumed to have occurred on the first day of the Reference Period.

"Adjusted Consolidated Interest Expense" means, with respect to the Company and its Restricted Subsidiaries, for the Reference Period, the aggregate amount (without duplication) of

(a) interest expensed in accordance with GAAP (including, in accordance with the following sentence, interest attributable to Capitalized Lease Obligations, but excluding interest attributable to Dollar-Denominated Production Payments and amortization of deferred debt expense) during such period in respect of all Indebtedness of the Company and its Restricted Subsidiaries (including (1) amortization of original issue discount or premium on any Indebtedness (other than with respect to the Existing Notes and the Notes), (2) the interest portion of all deferred payment obligations, calculated in accordance with GAAP, and (3) all commissions, discounts and other fees and charges owed with respect to bankers' acceptance financings and currency and interest rate swap arrangements, in each case to the extent attributable to such period), and

(b) dividend requirements of the Company and its Restricted Subsidiaries with respect to any preferred stock dividends (whether in cash or otherwise (except dividends paid solely in shares of Qualified Stock)) paid (other than to the Company or any of its Restricted Subsidiaries), declared, accrued or accumulated during such period, divided by one minus the applicable actual combined federal, state, local and foreign income tax rate of the Company and its Subsidiaries (expressed as a decimal), on a consolidated basis, for the four quarters immediately preceding the date of the transaction giving rise to the need to calculate Consolidated Interest Expense,

in each case to the extent attributable to such period and excluding items eliminated in consolidation. For purposes of this definition, (a) interest on a Capitalized Lease Obligation shall be deemed to accrue at an interest rate reasonably determined by the Company to be the rate of interest implicit in such Capitalized Lease Obligation in accordance with GAAP and (b) interest expense attributable to any Indebtedness represented by the guarantee by the Company or a Restricted Subsidiary of the Company of an obligation of another Person shall be deemed to be the interest expense attributable to the Indebtedness guaranteed.

"Adjusted Consolidated Net Tangible Assets" or "ACNTA" means, without duplication, as of the date of determination, (a) the sum of

(1) discounted future net revenue from proved oil and gas reserves of the Company and its Restricted Subsidiaries calculated in accordance with SEC guidelines before any state or federal income taxes, as estimated by independent petroleum engineers in a reserve report prepared as of the end of the Company's most recently completed fiscal year, as increased by, as of the date of determination, the discounted future net revenue of (A) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries attributable to any acquisition consummated since the date of such year-end reserve report and (B) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries attributable to extensions, discoveries and other additions and upward revisions of estimates of proved oil and gas reserves due to exploration, development or exploitation, production or other activities conducted or otherwise occurring since the date of such year-end reserve report which, in the case of sub-clauses (A) and (B), would, in accordance with standard industry practice, result in such increases as calculated in accordance with SEC guidelines (utilizing the prices utilized in such year-end reserve report), and decreased by, as of the date of determination, the discounted future net revenue of (C) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries produced or disposed of since the date of such year-end reserve report and (D) reductions in the estimated oil and gas reserves of the Company and its Restricted Subsidiaries since the date of such year-end reserve report attributable to downward revisions of estimates of proved oil and gas reserves due to exploration, development or exploitation, production or other activities conducted or otherwise occurring since the date of such year-end reserve report which, in the case of sub-clauses (C) and (D) would, in accordance with standard industry practice, result in such decreases as calculated in accordance with SEC guidelines (utilizing the prices utilized in such year-end reserve report); provided that, in the case of each of the determinations made pursuant to clauses (A) through (D), such increases and decreases shall be as estimated by the Company's engineers,

(2) the capitalized costs that are attributable to oil and gas properties of the Company and its Restricted Subsidiaries to which no proved oil and gas reserves are attributable, based on the Company's books and records as of a date no earlier than the date of the Company's latest annual or quarterly financial statements,

(3) the Net Working Capital on a date no earlier than the date of the Company's latest annual or quarterly financial statements and

(4) the greater of (I) the net book value on a date no earlier than the date of the Company's latest annual or quarterly financial statements and (II) the appraised value, as estimated by independent appraisers, of other tangible assets (including Investments in unconsolidated Subsidiaries) of the Company and its Restricted Subsidiaries, as of a date no earlier than the date of the Company's latest audited financial statements,

minus (b) the sum of

(1) minority interests,

(2) any gas balancing liabilities of the Company and its Restricted Subsidiaries reflected in the Company's latest annual or quarterly financial statements,

(3) the discounted future net revenue, calculated in accordance with SEC guidelines (utilizing the prices utilized in the Company's year-end reserve report), attributable to reserves which are required to be

delivered to third parties to fully satisfy the obligations of the Company and its Restricted Subsidiaries with respect to Volumetric Production Payments on the schedules specified with respect thereto,

(4) the discounted future net revenue, calculated in accordance with SEC guidelines, attributable to reserves subject to Dollar-Denominated Production Payments which, based on the estimates of production included in determining the discounted future net revenue specified in (a)(1) above (utilizing the same prices utilized in the Company's year-end reserve report), would be necessary to fully satisfy the payment obligations of the Company and its Restricted Subsidiaries with respect to Dollar-Denominated Production Payments on the schedules specified with respect thereto and

(5) the discounted future net revenue, calculated in accordance with SEC guidelines (utilizing the same prices utilized in the Company's year-end reserve report), attributable to reserves subject to participation interests, overriding royalty interests or other interests of third parties, pursuant to participation, partnership, vendor financing or other agreements then in effect, or which otherwise are required to be delivered to third parties.

If the Company changes its method of accounting from the full cost method to the successful efforts method or a similar method of accounting, ACNTA will continue to be calculated as if the Company were still using the full cost method of accounting.

"Affiliate" of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person. For the purposes of this definition, "control" when used with respect to any specified Person means the power to direct the management and policies of such Person directly or indirectly, whether through the ownership of voting stock, by contract or otherwise; and the terms "controlling" and "controlled" have meanings correlative to the foregoing.

"Asset Sale" means any sale, lease, transfer, exchange or other disposition (or series of related sales, leases, transfers, exchanges or dispositions) having a fair market value of \$1,000,000 or more of shares of Capital Stock of a Restricted Subsidiary (other than directors' qualifying shares), or of property or assets (including the creation of Dollar-Denominated Production Payments and Volumetric Production Payments, other than Dollar-Denominated Production Payments and Volumetric Production Payments created or sold in connection with the financing of, and within 30 days after, the acquisition of the properties subject thereto) or any interests therein (each referred to for purposes of this definition as a "disposition") by the Company or any of its Restricted Subsidiaries, including any disposition by means of a merger, consolidation or similar transaction, other than

(a) by the Company to a Restricted Subsidiary or by a Restricted Subsidiary to the Company or another Restricted Subsidiary,

(b) a sale of oil, gas or other hydrocarbons or other mineral products in the ordinary course of business of the Company's oil and gas production operations,

(c) any abandonment, farm-in, farm-out, lease and sub-lease of developed and/or undeveloped properties made or entered into in the ordinary course of business, but excluding (x) any sale of a net profits or overriding royalty interest, in each case conveyed from or burdening proved developed or proved undeveloped reserves and (y) any sale of hydrocarbons or other mineral products as a result of the creation of Dollar-Denominated Production Payments or Volumetric Production Payments, other than Dollar-Denominated Production Payments and Volumetric Production Payments created or sold in connection with the financing of, and within 30 days after, the acquisition of the properties subject thereto),

(d) the disposition of all or substantially all of the assets of the Company in compliance with the covenant captioned "Limitations on Mergers and Consolidations,"

(e) Sale/Leaseback Transactions in compliance the covenant captioned "Limitations on Sale/ Leaseback Transactions,"

(f) the provision of services and equipment for the operation and development of the Company's oil and gas wells, in the ordinary course of the Company's oil and gas service businesses, notwithstanding that such transactions may be recorded as asset sales in accordance with full cost accounting guidelines, and

(g) the issuance by the Company of shares of its Capital Stock.

"Attributable Indebtedness" means, with respect to any particular lease under which any Person is at the time liable and at any date as of which the amount thereof is to be determined, the present value of the total net amount of rent required to be paid by such Person under the lease during the primary term thereof, without giving effect to any renewals at the option of the lessee, discounted from the respective due dates thereof to such date at the rate of interest per annum implicit in the terms of the lease. As used in the preceding sentence, the "net amount of rent" under any lease for any such period shall mean the sum of rental and other payments required to be paid with respect to such period by the lessee thereunder excluding any amounts required to be paid by such lessee on account of maintenance and repairs, insurance, taxes, assessments, water rates or similar charges. In the case of any lease which is terminable by the lessee upon payment of a penalty, such net amount of rent shall also include the amount of such penalty, but no rent shall be considered as required to be paid under such lease subsequent to the first date upon which it may be so terminated.

"Average Life" means, as of the date of determination, with respect to any Indebtedness, the quotient obtained by dividing (a) the product of (x) the number of years from such date to the date of each successive scheduled principal payment of such Indebtedness multiplied by (y) the amount of such principal payment by (b) the sum of all such principal payments.

"Capital Stock" means, with respect to any Person, any and all shares, interests, participations or other equivalents (however designated) of corporate stock or partnership or limited liability company interests and any and all warrants, options and rights with respect thereto (whether or not currently exercisable), including each class of common stock and preferred stock of such Person.

"Capitalized Lease Obligations" of any Person means the obligations of such Person to pay rent or other amounts under a lease of property, real or personal, that is required to be capitalized for financial reporting purposes in accordance with GAAP, and the amount of such obligations shall be the capitalized amount thereof determined in accordance with GAAP.

"Change of Control" means the occurrence of any of the following:

(1) the sale, lease or transfer, in one or a series of related transactions, of all or substantially all of the Company's assets to any Person or group (as such term is used in Section 13(d)(3) of the Exchange Act), other than to Permitted Holders;

(2) the adoption of a plan relating to the liquidation or dissolution of the Company;

(3) the acquisition, directly or indirectly, by any Person or group (as such term is used in Section 13(d)(3) of the Exchange Act), other than Permitted Holders, of beneficial ownership (as defined in Rule 13d-3 under the Exchange Act, except that such Person shall be deemed to have beneficial ownership of all shares that any such Person has the right to acquire, whether such right is exercisable immediately or only after passage of time) of more than 50% of the aggregate voting power of the Voting Stock of the Company; provided, however, that the Permitted Holders beneficially own (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, in the aggregate a lesser percentage of the total voting power of the Voting Stock of the Company than such other Person and do not have the right or ability by voting power, contract or otherwise to elect or designate for election a majority of the Board of Directors of the Company (for the purposes of this definition, such other Person shall be deemed to beneficially own any Voting Stock of a specified corporation held by a parent corporation, if such other Person is the beneficial owner (as defined above), directly or indirectly, of more than 35% of the voting power of the Voting Stock of such parent corporation and the Permitted Holders beneficially own (as defined in this proviso), directly

or indirectly, in the aggregate a lesser percentage of the voting power of the Voting Stock of such parent corporation and do not have the right or ability by voting power, contract or otherwise to elect or designate for election a majority of the Board of Directors of such parent corporation); or

(4) during any period of two consecutive years, individuals who at the beginning of such period constituted the Board of Directors of the Company (together with any new directors whose election by such Board of Directors or whose nomination for election by the shareholders of the Company was approved by a vote of 66 2/3% of the directors of the Company then still in office who were either directors at the beginning of such period or whose election or nomination for election was previously so approved) cease for any reason to constitute a majority of the Board of Directors of the Company then in office.

"Consolidated Net Income" of the Company means, for any period, the aggregate net income (or loss) of the Company and its Restricted Subsidiaries for such period on a consolidated basis, determined in accordance with GAAP; provided, however, that there shall not be included in such Consolidated Net Income:

(a) any net income of any Person if such Person is not the Company or a Restricted Subsidiary, except that

(1) subject to the limitations contained in clause (d) below, the Company's equity in the net income of any such Person for such period shall be included in such Consolidated Net Income up to the aggregate amount of cash or cash equivalents actually distributed by such Person during such period to the Company or a Restricted Subsidiary as a dividend or other distribution (subject, in the case of a dividend or other distribution to a Restricted Subsidiary, to the limitations contained in clause (c) below) and

(2) the Company's equity in a net loss of any such Person (other than an Unrestricted Subsidiary) for such period shall be included in determining such Consolidated Net Income;

(b) any net income (or loss) of any Person acquired by the Company or a Subsidiary in a pooling of interests transaction for any period prior to the date of such acquisition;

(c) the net income of any Restricted Subsidiary to the extent that the payment of dividends or the making of distributions by such Restricted Subsidiary, directly or indirectly, to the Company, is prohibited;

(d) any gain (but not loss) realized upon the sale or other disposition of any property, plant or equipment of the Company or any Restricted Subsidiary (including pursuant to any Sale/Leaseback Transaction) which is not sold or otherwise disposed of in the ordinary course of business and any gain (but not loss) realized upon the sale or other disposition of any Capital Stock of any Person;

(e) any gain (but not loss) from currency exchange transactions not in the ordinary course of business consistent with past practice;

(f) the cumulative effect of a change in accounting principles;

(g) to the extent deducted in the calculation of net income, the non-cash charges associated with the repayment of Indebtedness with the proceeds from the sale of the Notes or any other Senior Indebtedness scheduled to mature no earlier than the Indebtedness being repaid and the prepayment of any of the Notes or such other Senior Indebtedness;

(h) any writedowns of non-current assets; provided, however, that any "ceiling limitation" writedowns under SEC guidelines shall be treated as capitalized costs, as if such writedowns had not occurred;

(i) any gain (but not loss) attributable to extraordinary items; and

(j) any unrealized non-cash gains or losses or charges in respect of hedge or non-hedge derivatives (including those resulting from the application of FAS 133).

"Consolidated Tangible Net Worth" means, with respect to the Company and its Restricted Subsidiaries, as at any date of determination, the sum of Capital Stock (other than Disqualified Stock) and additional paid-in capital plus retained earnings (or minus accumulated deficit) minus all intangible assets, including, without limitation, organization costs, patents, trademarks, copyrights, franchises, research and development costs, and any amount reflected in treasury stock, of the Company and its Restricted Subsidiaries determined on a consolidated basis in accordance with GAAP.

"Credit Facilities" means, one or more debt facilities (including, without limitation, the Company's existing credit facility) or commercial paper facilities, in each case with banks or other institutional lenders providing for revolving credit loans, term loans, receivables financing (including through the sale of receivables to such lenders or to special purpose entities formed to borrow from such lenders against such receivables) or letters of credit, in each case, as amended, restated, modified, renewed, refunded, replaced or refinanced in whole or in part from time to time.

"Currency Hedge Obligations" means, at any time as to the Company and its Restricted Subsidiaries, the obligations of such Person at such time that were incurred in the ordinary course of business pursuant to any foreign currency exchange agreement, option or futures contract or other similar agreement or arrangement designed to protect against or manage such Person's or any of its Subsidiaries' exposure to fluctuations in foreign currency exchange rates.

"Disinterested Director" means, with respect to an Affiliate Transaction or series of related Affiliate Transactions, a member of the Board of Directors of the Company who has no financial interest, and whose employer has no financial interest, in such Affiliate Transaction or series of related Affiliate Transactions.

"Disqualified Stock" means any Capital Stock of the Company or any Restricted Subsidiary of the Company which, by its terms (or by the terms of any security into which it is convertible or for which it is exchangeable), or upon the happening of any event or with the passage of time, matures or is mandatorily redeemable, pursuant to a sinking fund obligation or otherwise, or is redeemable at the option of the holder thereof, in whole or in part, on or prior to the Maturity Date or which is exchangeable or convertible into debt securities of the Company or any Restricted Subsidiary of the Company, except to the extent that such exchange or conversion rights cannot be exercised prior to the Maturity Date.

"Dollar-Denominated Production Payments" mean production payment obligations recorded as liabilities in accordance with GAAP, together with all undertakings and obligations in connection therewith.

"Equity Offering" means any underwritten public offering of Capital Stock (other than Disqualified Stock) of the Company pursuant to a registration statement filed pursuant to the Securities Act of 1933 or any private placement of Capital Stock (other than Disqualified Stock) of the Company (other than to any Person who, prior to such private placement, was an Affiliate of the Company) which offering or placement is consummated after the Issue Date.

"Exchange Act" means the Securities Exchange Act of 1934, as amended, and the rules and regulations of the SEC hereunder.

"Existing Notes" means the Company's outstanding (a) 7.875% Senior Notes due 2004, (b) 8.5% Senior Notes due 2012, (c) 8.125% Senior Notes due 2011, (d) 8.375% Senior Notes due 2008 and (e) 9% Senior Notes due 2012 and (f) 7.75% Senior Notes due 2015.

"GAAP" means generally accepted accounting principles as in effect in the United States of America as of the Issue Date.

"Guarantee" means, individually and collectively, the guarantees given by the Subsidiary Guarantors pursuant to Article Ten of the Indenture.

"Holder" means a Person in whose name a Note is registered on the Registrar's books.

"Indebtedness" means, without duplication, with respect to any Person,

(a) all obligations of such Person

(1) in respect of borrowed money (whether or not the recourse of the lender is to the whole of the assets of such Person or only to a portion thereof),

(2) evidenced by bonds, notes, debentures or similar instruments,

(3) representing the balance deferred and unpaid of the purchase price of any property or services (other than accounts payable or other obligations arising in the ordinary course of business),

(4) evidenced by bankers' acceptances or similar instruments issued or accepted by banks,

(5) for the payment of money relating to a Capitalized Lease Obligation, or

(6) evidenced by a letter of credit or a reimbursement obligation of such Person with respect to any letter of credit;

(b) all net obligations of such Person in respect of Currency Hedge Obligations, Interest Rate Hedge Agreements and Oil and Gas Hedging Contracts, except to the extent such net obligations are taken into account in the determination of future net revenues from proved oil and gas reserves for purposes of the calculation of Adjusted Consolidated Net Tangible Assets;

(c) all liabilities of others of the kind described in the preceding clauses (a) or (b) that such Person has guaranteed or that are otherwise its legal liability (including, with respect to any Production Payment, any warranties or guaranties of production or payment by such Person with respect to such Production Payment but excluding other contractual obligations of such Person with respect to such Production Payment);

(d) Indebtedness (as otherwise defined in this definition) of another Person secured by a Lien on any asset of such Person, whether or not such Indebtedness is assumed by such Person, the amount of such obligations being deemed to be the lesser of

(1) the full amount of such obligations so secured and

(2) the fair market value of such asset, as determined in good faith by the Board of Directors of such Person, which determination shall be evidenced by a resolution of such Board;

(e) with respect to such Person, the liquidation preference or any mandatory redemption payment obligations in respect of Disqualified Stock;

(f) the aggregate preference in respect of amounts payable on the issued and outstanding shares of preferred stock of any of the Company's Restricted Subsidiaries in the event of any voluntary or involuntary liquidation, dissolution or winding up (excluding any such preference attributable to such shares of preferred stock that are owned by such Person or any of its Restricted Subsidiaries; provided, that if such Person is the Company, such exclusion shall be for such preference attributable to such shares of preferred stock that are owned by the Company or any of its Restricted Subsidiaries); and

(g) any and all deferrals, renewals, extensions, refinancings and refundings (whether direct or indirect) of, or amendments, modifications or supplements to, any liability of the kind described in any of the preceding clauses (a), (b), (c), (d), (e) or (f) or this clause (g), whether or not between or among the same parties.

Subject to clause (c) of the preceding sentence, neither Dollar-Denominated Production Payments nor Volumetric Production Payments shall be deemed to be Indebtedness.

"Interest Rate Hedging Agreements" means, with respect to the Company and its Restricted Subsidiaries, the obligations of such Persons under (a) interest rate swap agreements, interest rate cap agreements and interest

rate collar agreements and (b) other agreements or arrangements designed to protect any such Person or any of its Subsidiaries against fluctuations in interest rates.

"Investment" of any Person means (a) all investments by such Person in any other Person in the form of loans, advances or capital contributions, (b) all guarantees of Indebtedness or other obligations of any other Person by such Person, (c) all purchases (or other acquisitions for consideration) by such Person of assets, Indebtedness, Capital Stock or other securities of any other Person and (d) all other items that would be classified as investments (including, without limitation, purchases of assets outside the ordinary course of business) or advances on a balance sheet of such Person prepared in accordance with GAAP.

"Issue Date" means the first date on which the Notes are originally issued, March 5, 2003.

"Lien" means, with respect to any Person, any mortgage, pledge, lien, encumbrance, easement, restriction, covenant, right-of-way, charge or adverse claim affecting title or resulting in an encumbrance against real or personal property of such Person, or a security interest of any kind (including any conditional sale or other title retention agreement, any lease in the nature thereof, any option, right of first refusal or other similar agreement to sell, in each case securing obligations of such Person and any filing of or agreement to give any financing statement under the Uniform Commercial Code (or equivalent statute or statutes) of any jurisdiction).

"Make-Whole Amount" with respect to a Note means an amount equal to the excess, if any, of (a) the present value of the remaining interest, premium and principal payments due on such Note (excluding any portion of such payments of interest accrued as of the redemption date) as if such Note were redeemed on September 15, 2008, computed using a discount rate equal to the Treasury Rate plus 50 basis points, over (b) the outstanding principal amount of such Note. "Treasury Rate" with respect to a Note means the yield to maturity (calculated on a semi-annual bond equivalent basis) at the time of the computation of United States Treasury securities with a constant maturity (as compiled by and published in the most recent Federal Reserve Statistical Release H.15(519), which has become publicly available at least two business days prior to the date of the redemption notice or, if such Statistical Release is no longer published, any publicly available source of similar market data) most nearly equal to the then remaining maturity of such Note assuming that such Note will be redeemed on September 15, 2008; provided, however, that if the Make-Whole Average Life of a Note is not equal to the constant maturity of the United States Treasury security for which a weekly average yield is given, the Treasury Rate shall be obtained by linear interpolation (calculated to the nearest one-twelfth of a year) from the weekly average yields of United States Treasury securities for which such yields are given, except that if the Make-Whole Average Life of such Note is less than one year, the weekly average yield on actually traded United States Treasury securities adjusted to a constant maturity of one year shall be used. "Make-Whole Average Life" means, with respect to a Note, the number of years (calculated to the nearest one-twelfth of a year) between the date of redemption of such Note and September 15, 2008.

"Make-Whole Price" means the greater of (a) the sum of the outstanding principal amount of the Notes to be redeemed plus the Make-Whole Amount of such Notes and (b) the redemption price (expressed as a percentage of the principal amount) of such Notes on September 15, 2008.

"Maturity Date" means September 15, 2013.

"Net Available Proceeds" means, with respect to any Asset Sale or Sale/Leaseback Transaction of any Person, cash proceeds received (including any cash proceeds received by way of deferred payment of principal pursuant to a note or installment receivable or otherwise, but only as and when received, and excluding any other consideration until such time as such consideration is converted into cash) therefrom, in each case net of all legal, title and recording tax expenses, commissions and other fees and expenses incurred, and all federal, state or local taxes required to be accrued as a liability as a consequence of such Asset Sale or Sale/Leaseback Transaction, and in each case net of all Indebtedness which is secured by such assets, in accordance with the terms of any Lien upon or with respect to such assets, or which must, by its terms or in order to obtain a necessary consent to such

Asset Sale or Sale/Leaseback Transaction or by applicable law, be repaid out of the proceeds from such Asset Sale or Sale/Leaseback Transaction and which is actually so repaid.

"Net Cash Proceeds" means, in the case of any sale by the Company of securities pursuant to clauses (3) (B) or (C) of the covenant captioned "Limitation on Restricted Payments," the aggregate net cash proceeds received by the Company, after payment of expenses, commissions, discounts, taxes and any other transaction costs incurred in connection therewith.

"Net Working Capital" means (a) all current assets of the Company and its Restricted Subsidiaries, minus (b) all current liabilities of the Company and its Restricted Subsidiaries, except current liabilities included in Indebtedness.

"Non-Recourse Indebtedness" means Indebtedness or that portion of Indebtedness of a Non-Recourse Subsidiary as to which (a) neither the Company nor any other Subsidiary (other than a Non-Recourse Subsidiary) (1) provides credit support, including any undertaking, agreement or instrument which would constitute Indebtedness or (2) is directly or indirectly liable for such Indebtedness and (b) no default with respect to such Indebtedness (including any rights which the holders thereof may have to take enforcement action against a Non-Recourse Subsidiary) would permit (upon notice, lapse of time or both) any holder of any other Indebtedness (other than Non-Recourse Indebtedness) of the Company or its Subsidiaries (other than a Non-Recourse Subsidiary) to declare a default on such other Indebtedness or cause the payment thereof to be accelerated or payable prior to its stated maturity.

"Non-Recourse Subsidiary" means a Subsidiary or an Affiliate (1) established for the purpose of acquiring or investing in property securing Non-Recourse Indebtedness, (2) substantially all of the assets of which consist of property securing Non-Recourse Indebtedness, and (3) which shall have been designated as a Non-Recourse Subsidiary by a Board Resolution adopted by the Board of Directors of the Company, as evidenced by an officers' certificate delivered to the Trustee. The Company may redesignate any Non-Recourse Subsidiary of the Company to be a Subsidiary other than a Non-Recourse Subsidiary by a Board Resolution adopted by the Board of Directors of the Company, as evidenced by an officers' certificate delivered to the Trustee, if, after giving effect to such redesignation, the Company could borrow \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to the first paragraph of the covenant captioned "Limitation on Incurrence of Additional Indebtedness" (such redesignation being deemed an incurrence of additional Indebtedness (other than Non-Recourse Indebtedness)).

"Oil and Gas Business" means the business of the exploration for, and exploitation, development, production, processing (but not refining), marketing, storage and transportation of, hydrocarbons, and other related energy and natural resource businesses (including oil and gas services businesses related to the foregoing).

"Oil and Gas Hedging Contracts" means any oil and gas purchase or hedging agreement, and other agreement or arrangement, in each case, that is designed to provide protection against price fluctuations of oil, gas or other commodities.

"Oil and Gas Securities" means the Voting Stock of a Person primarily engaged in the Oil and Gas Business, provided that such Voting Stock shall constitute a majority of the Voting Stock of such Person in the event that such Voting Stock is not registered under Section 12 of the Exchange Act.

"Permitted Business Investments" means

- (1) Investments in assets used in the Oil and Gas Business;
- (2) the acquisition of Oil and Gas Securities;

(3) the entry into operating agreements, joint ventures, processing agreements, farm-out agreements, development agreements, area of mutual interest agreements, contracts for the sale, transportation or exchange of oil and natural gas, unitization agreements, pooling arrangements, joint bidding agreements, service contracts, partnership agreements (whether general or limited) or other similar or customary agreements, transactions, properties, interests or arrangements, and Investments and expenditures in connection therewith or pursuant thereto, in each case made or entered into in the ordinary course of the Oil and Gas Business, excluding, however, Investments in corporations;

(4) the acquisition of working interests, royalty interests or mineral leases relating to oil and gas properties;

(5) Investments by the Company or any Restricted Subsidiary in any Person which, immediately prior to the making of such Investment, is a Restricted Subsidiary;

(6) Investments in the Company by any Restricted Subsidiary;

(7) Investments permitted under the covenants captioned "Limitation on Sale of Assets" and "Limitation on Sale/Leaseback Transactions";

(8) Investments in any Person the consideration for which consists of Qualified Stock and

(9) any other Investments in an amount not to exceed 10% of Adjusted Consolidated Net Tangible Assets determined as of the date of the making or incurrence of such Investment.

"Permitted Company Refinancing Indebtedness" means Indebtedness of the Company, the net proceeds of which are used to renew, extend, refinance, refund or repurchase outstanding Indebtedness of the Company, provided that

(1) if the Indebtedness (including the Notes) being renewed, extended, refinanced, refunded or repurchased is pari passu with or subordinated in right of payment to the Notes, then such Indebtedness is pari passu or subordinated in right of payment to, as the case may be, the Notes at least to the same extent as the Indebtedness being renewed, extended, refinanced, refunded or repurchased,

(2) such Indebtedness is scheduled to mature no earlier than the Indebtedness being renewed, extended, refinanced, refunded or repurchased, and

(3) such Indebtedness has an Average Life at the time such Indebtedness is incurred that is equal to or greater than the Average Life of the Indebtedness being renewed, extended, refinanced, refunded or repurchased;

provided, further, that such Indebtedness (to the extent that such Indebtedness constitutes Permitted Company Refinancing Indebtedness) is in an aggregate principal amount (or, if such Indebtedness is issued at a price less than the principal amount thereof, the aggregate amount of gross proceeds therefrom is) not in excess of the aggregate principal amount then outstanding of the Indebtedness being renewed, extended, refinanced, refunded or repurchased (or if the Indebtedness being renewed, extended, refinanced, refunded or repurchased was issued at a price less than the principal amount thereof, then not in excess of the amount of liability in respect thereof determined in accordance with GAAP).

"Permitted Financial Investments" means the following kinds of instruments if, in the case of instruments referred to in clauses (1)-(4) below, on the date of purchase or other acquisition of any such instrument by the Company or any Subsidiary, the remaining term to maturity is not more than one year:

(1) readily marketable obligations issued or unconditionally guaranteed as to principal of and interest thereon by the United States of America or by any agency or authority controlled or supervised by and acting as an instrumentality of the United States of America;

(2) repurchase obligations for instruments of the type described in clause (1) for which delivery of the instrument is made against payment;

(3) obligations (including, but not limited to, demand or time deposits, bankers' acceptances and certificates of deposit) issued by a depository institution or trust company incorporated or doing business under the laws of the United States of America, any state thereof or the District of Columbia or a branch or subsidiary of any such depository institution or trust company operating outside the United States, provided, that such depository institution or trust company has, at the time of the Company's or such Subsidiary's investment therein or contractual commitment providing for such investment, capital surplus or undivided profits (as of the date of such institution's most recently published financial statements) in excess of \$500,000,000;

(4) commercial paper issued by any corporation, if such commercial paper has, at the time of the Company's or any Subsidiary's investment therein or contractual commitment providing for such investment, credit ratings of A-1 (or higher) by Standard & Poor's Ratings Services and P-1 (or higher) by Moody's Investors Service, Inc.; and

(5) money market mutual or similar funds having assets in excess of \$500,000,000.

"Permitted Holders" means Aubrey K. McClendon and Tom L. Ward and their respective Affiliates.

"Permitted Indebtedness" means

(1) additional Indebtedness of the Company and its Restricted Subsidiaries under Credit Facilities in a principal amount outstanding under this clause (1) at any time not to exceed the greater of

(a) \$300 million and

(b) \$100 million plus 20% of Adjusted Consolidated Net Tangible Assets;

(2) Indebtedness of the Company and its Restricted Subsidiaries outstanding on the Issue Date;

(3) other Indebtedness of the Company and its Restricted Subsidiaries in a principal amount not to exceed \$40 million at any one time outstanding;

(4) Non-Recourse Indebtedness;

(5) Indebtedness of the Company to any Restricted Subsidiary of the Company and Indebtedness of any Restricted Subsidiary of the Company to the Company or another Restricted Subsidiary of the Company;

(6) Permitted Company Refinancing Indebtedness;

(7) Permitted Subsidiary Refinancing Indebtedness;

(8) obligations of the Company and its Restricted Subsidiaries under Currency Hedge Obligations, Oil and Gas Hedging Contracts or Interest Rate Hedging Agreements;

(9) Indebtedness under the Notes (excluding any Add On Notes);

(10) Indebtedness of a Subsidiary pursuant to a Guarantee of the Notes in accordance with the Indenture; and

(11) Indebtedness consisting of any guarantee by the Company or one of its Restricted Subsidiaries of Indebtedness of the Company or a Restricted Subsidiary outstanding on the Issue Date or permitted by the Indenture to be incurred thereafter by the Company or its Restricted Subsidiary.

"Permitted Investments" means Permitted Business Investments and Permitted Financial Investments.

"Permitted Liens" means

(1) Liens existing on the Issue Date;

(2) Liens securing Indebtedness under Credit Facilities permitted by the Indenture to be incurred;

(3) Liens now or hereafter securing any obligations under Interest Rate Hedging Agreements so long as the related Indebtedness (a) constitutes the Existing Notes or the Notes (or any Permitted Company Refinancing Indebtedness in respect thereof) or (b) is, or is permitted to be under the Indenture, secured by a Lien on the same property securing such interest rate hedging obligations;

(4) Liens securing Permitted Company Refinancing Indebtedness or Permitted Subsidiary Refinancing Indebtedness; provided, that such Liens extend to or cover only the property or assets currently securing the Indebtedness being refinanced and that the Indebtedness being refinanced was not incurred under the Credit Facilities;

(5) Liens for taxes, assessments and governmental charges not yet delinquent or being contested in good faith and for which adequate reserves have been established to the extent required by GAAP;

(6) mechanics', worker's, materialmen's, operators' or similar Liens arising in the ordinary course of business;

(7) Liens in connection with worker's compensation, unemployment insurance or other social security, old age pension or public liability obligations;

(8) Liens, deposits or pledges to secure the performance of bids, tenders, contracts (other than contracts for the payment of money), leases, public or statutory obligations, surety, stay, appeal, indemnity, performance or other similar bonds, or other similar obligations arising in the ordinary course of business;

(9) survey exceptions, encumbrances, easements or reservations of, or rights of others for, rights of way, zoning or other restrictions as to the use of real properties, and minor defects in title which, in the case of any of the foregoing, were not incurred or created to secure the payment of borrowed money or the deferred purchase price of property or services, and in the aggregate do not materially adversely affect the value of such properties or materially impair use for the purposes of which such properties are held by the Company or any Restricted Subsidiaries;

(10) Liens on, or related to, properties to secure all or part of the costs incurred in the ordinary course of business of exploration, drilling, development or operation thereof;

(11) Liens on pipeline or pipeline facilities which arise out of operation of law;

(12) judgment and attachment Liens not giving rise to an Event of Default or Liens created by or existing from any litigation or legal proceeding that are currently being contested in good faith by appropriate proceedings and for which adequate reserves have been made;

(13) (a) Liens upon any property of any Person existing at the time of acquisition thereof by the Company or a Restricted Subsidiary, (b) Liens upon any property of a Person existing at the time such Person is merged or consolidated with the Company or any Restricted Subsidiary or existing at the time of the sale or transfer of any such property of such Person to the Company or any Restricted Subsidiary, or (c) Liens upon any property of a Person existing at the time such Person becomes a Restricted Subsidiary; provided, that in each case such Lien has not been created in contemplation of such sale, merger, consolidation, transfer or acquisition, and provided that in each such case no such Lien shall extend to or cover any property of the Company or any Restricted Subsidiary other than the property being acquired and improvements thereon;

(14) Liens on deposits to secure public or statutory obligations or in lieu of surety or appeal bonds entered into in the ordinary course of business;

(15) Liens in favor of collecting or payor banks having a right of setoff, revocation, refund or chargeback with respect to money or instruments of the Company or any Subsidiary on deposit with or in possession of such bank;

(16) purchase money security interests granted in connection with the acquisition of assets in the ordinary course of business and consistent with past practices, provided, that (A) such Liens attach only to

the property so acquired with the purchase money indebtedness secured thereby and (B) such Liens secure only Indebtedness that is not in excess of 100% of the purchase price of such assets;

(17) Liens reserved in oil and gas mineral leases for bonus or rental payments and for compliance with the terms of such leases;

(18) Liens arising under partnership agreements, oil and gas leases, farm-out agreements, division orders, contracts for the sale, purchase, exchange, transportation or processing (but not refining) of oil, gas or other hydrocarbons, unitization and pooling declarations and agreements, development agreements, operating agreements, area of mutual interest agreements, and other similar agreements which are customary in the Oil and Gas Business;

(19) Liens securing obligations of the Company or any of its Restricted Subsidiaries under Currency Hedge Obligations or Oil and Gas Hedging Contracts; and

(20) Liens to secure Dollar-Denominated Production Payments and Volumetric Production Payments.

"Permitted Subsidiary Refinancing Indebtedness" means Indebtedness of any Restricted Subsidiary, the net proceeds of which are used to renew, extend, refinance, refund or repurchase outstanding Indebtedness of such Restricted Subsidiary, provided that

(1) if the Indebtedness (including the Guarantees) being renewed, extended, refinanced, refunded or repurchased is pari passu with or subordinated in right of payment to the Guarantees, then such Indebtedness is pari passu with or subordinated in right of payment to, as the case may be, the Guarantees at least to the same extent as the Indebtedness being renewed, extended, refinanced, refunded or repurchased,

(2) such Indebtedness is scheduled to mature no earlier than the Indebtedness being renewed, extended, refinanced, refunded or repurchased, and

(3) such Indebtedness has an Average Life at the time such Indebtedness is incurred that is equal to or greater than the Average Life of the Indebtedness being renewed, extended, refinanced, refunded or repurchased;

provided, further, that such Indebtedness (to the extent that such Indebtedness constitutes Permitted Subsidiary Refinancing Indebtedness) is in an aggregate principal amount (or, if such Indebtedness is issued at a price less than the principal amount thereof, the aggregate amount of gross proceeds therefrom is) not in excess of the aggregate principal amount then outstanding of the Indebtedness being renewed, extended, refinanced, refunded or repurchased (or if the Indebtedness being renewed, extended, refinanced, refunded or repurchased was issued at a price less than the principal amount thereof, then not in excess of the amount of liability in respect thereof determined in accordance with GAAP); provided, however, that a Restricted Subsidiary shall not incur refinancing Indebtedness to renew, extend, refinance, refund or repurchase outstanding Indebtedness of the Company or another Subsidiary.

"Person" means any individual, corporation, partnership, joint venture, trust, estate, unincorporated organization or government or any agency or political subdivision thereof.

"Preferred Stock" means the 624,037 shares of 7% Cumulative Convertible Preferred Stock of the Company having a par value of \$0.01 per share and a liquidation preference of \$50 per share issued by the Company, all of which shares were redeemed as of May 1, 2001.

"Preferred Stock Offering" means the private placement of the Preferred Stock that closed on or about April 22, 1998.

"Production Payments" means, collectively, Dollar-Denominated Production Payments and Volumetric Production Payments.

"Proved Developed Properties" means working interests, royalty interests, and other interests in oil, gas or mineral leases or other interests in oil, gas or mineral properties to which reserves are attributed which may properly be categorized as proved developed reserves under Regulation S-X under the Securities Act; together with all contracts, agreements and contract rights which cover, affect or otherwise relate to such interests; all hydrocarbons and all payments of any type in lieu of production; all improvements, fixtures, equipment, information, data and other property used in connection therewith or in connection with the treating, handling, storing, processing, transporting or marketing of such hydrocarbons; all insurance policies relating thereto or to the operation thereof; all personal property related thereto; and all proceeds thereof.

"Qualified Stock" means any Capital Stock that is not Disqualified Stock.

"Reference Date" means March 31, 1998.

"Reference Period" means, with respect to any Person, the period of four consecutive fiscal quarters ending with the last full fiscal quarter for which financial information is available immediately preceding any date upon which any determination is to be made pursuant to the terms of either Indenture or the related Notes.

"Restricted Payment" means, with respect to any Person, any of the following:

(1) any dividend or other distribution in respect of such Person's Capital Stock (other than (a) dividends or distributions payable solely in Capital Stock (other than Disqualified Stock), (b) in the case of Restricted Subsidiaries of the Company, dividends or distributions payable to the Company or to a Restricted Subsidiary of the Company and (c) in the case of the Company, cash dividends payable on the Preferred Stock);

(2) the purchase, redemption or other acquisition or retirement for value of any Capital Stock, or any option, warrant, or other right to acquire shares of Capital Stock, of the Company or any of its Restricted Subsidiaries;

(3) the making of any principal payment on, or the purchase, defeasance, repurchase, redemption or other acquisition or retirement for value, prior to any scheduled maturity, scheduled repayment or scheduled sinking fund payment, of any Indebtedness which is subordinated in right of payment to the Notes; and

(4) the making by such Person of any Investment other than a Permitted Investment.

"Restricted Subsidiary" means any Subsidiary of the Company other than an Unrestricted Subsidiary. The Board of Directors may designate any Unrestricted Subsidiary to be a Restricted Subsidiary; provided, however, that, immediately after giving effect to such designation of any Unrestricted Subsidiary, the Company could incur at least \$1.00 in additional Indebtedness (other than Permitted Indebtedness) pursuant to the first paragraph of the covenant captioned "Limitation on Incurrence of Additional Indebtedness."

"Sale/Leaseback Transaction" means with respect to the Company or any of its Restricted Subsidiaries, any arrangement with any Person providing for the leasing by the Company or any of its Restricted Subsidiaries of any principal property, acquired or placed into service more than 180 days prior to such arrangement, whereby such property has been or is to be sold or transferred by the Company or any of its Restricted Subsidiaries to such Person.

"Senior Indebtedness" means any Indebtedness of the Company or a Subsidiary Guarantor (whether outstanding on the Issue Date or thereafter incurred), unless such Indebtedness is contractually subordinate or junior in right of payment of principal, premium and interest to the Notes or the Guarantees, respectively.

"Subordinated Indebtedness of a Subsidiary Guarantor" means any Indebtedness of such Subsidiary Guarantor, whether outstanding on the Issue Date or thereafter created, incurred or assumed, which is contractually subordinate or junior in right of payment of principal, premium and interest to the Guarantees.

"Subordinated Indebtedness of the Company" means any Indebtedness of the Company, whether outstanding on the Issue Date or thereafter created, incurred or assumed, which is contractually subordinate or junior in right of payment of principal, premium and interest to the Notes.

"Subsidiary" means any subsidiary of the Company. A "subsidiary" of any Person means

(1) a corporation a majority of whose Voting Stock is at the time, directly or indirectly, owned by such Person, by one or more subsidiaries of such Person or by such Person and one or more subsidiaries of such Person,

(2) a partnership in which such Person or a subsidiary of such Person is, at the date of determination, a general or limited partner of such partnership, but only if such Person or its subsidiary is entitled to receive more than 50 percent of the assets of such partnership upon its dissolution, or

(3) any other Person (other than a corporation or partnership) in which such Person, directly or indirectly, at the date of determination thereof, has (x) at least a majority ownership interest or (y) the power to elect or direct the election of a majority of the directors or other governing body of such Person.

"Subsidiary Guarantor" means (a) each of the Subsidiaries that becomes a guarantor of the Notes in compliance with the provisions of the Indenture and (b) each of the Subsidiaries executing a supplemental indenture in which such Subsidiary agrees to be bound by the terms of the Indenture.

"Unrestricted Subsidiary" means (a) Chesapeake Energy Marketing, Inc. until such time as such Subsidiary shall be designated as a Restricted Subsidiary in accordance with the requirements of the Indenture, (b) any Subsidiary of an Unrestricted Subsidiary and (c) any Subsidiary of the Company or of a Restricted Subsidiary that is designated as an Unrestricted Subsidiary by a resolution adopted by the Board of Directors in accordance with the requirements of the following sentence. The Company may designate any Subsidiary of the Company or of a Restricted Subsidiary (including a newly acquired or newly formed Subsidiary or any Restricted Subsidiary of the Company), to be an Unrestricted Subsidiary by a resolution of the Board of Directors of the Company, as evidenced by written notice thereof delivered to the Trustee, if immediately after giving effect to such designation,

(1) the Company could incur \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to the first paragraph of the covenant captioned "Limitation on Incurrence of Additional Indebtedness,"

(2) the Company could make an additional Restricted Payment of \$1.00 pursuant to the first paragraph of the covenant captioned "Limitation on Restricted Payments,"

(3) such Subsidiary does not own or hold any Capital Stock of, or any lien on any property of, the Company or any Restricted Subsidiary and

(4) such Subsidiary is not liable, directly or indirectly, with respect to any Indebtedness other than Unrestricted Subsidiary Indebtedness.

"Unrestricted Subsidiary Indebtedness" of any Person means Indebtedness of such Person

(a) as to which neither the Company nor any Restricted Subsidiary is directly or indirectly liable (by virtue of the Company's or such Restricted Subsidiary's being the primary obligor, or guarantor of, or otherwise liable in any respect on, such Indebtedness),

(b) which, with respect to Indebtedness incurred after the Issue Date by the Company or any Restricted Subsidiary, upon the occurrence of a default with respect thereto, does not result in, or permit any holder of any Indebtedness of the Company or any Restricted Subsidiary to declare a default on such Indebtedness of the Company or any Restricted Subsidiary and

(c) which is not secured by any assets of the Company or of any Restricted Subsidiary.

"U.S. Government Securities" means securities that are (1) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (2) obligations of a Person controlled or supervised by and acting as an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, which, in either case under clauses (1) or (2) are not callable or redeemable at the option of the issuer thereof.

"U.S. Legal Tender" means such coin or currency of the United States as at the time of payment shall be legal tender for the payment of public and private debts.

"Volumetric Production Payments" mean production payment obligations recorded as deferred revenue in accordance with GAAP, together with all undertakings and obligations in connection therewith.

"Voting Stock" means, with respect to any Person, securities of any class or classes of Capital Stock in such Person entitling the holders thereof (whether at all times or only so long as no senior class of stock has voting power by reason of contingency) to vote in the election of members of the Board of Directors or other governing body of such Person.

Events of Default

The following will be Events of Default with respect to the Notes:

(1) default by the Company or any Subsidiary Guarantor in the payment of principal of or premium, if any, on the Notes when due and payable at maturity, upon repurchase pursuant to the covenants described under "Limitation on Sale of Assets" or "Change of Control," upon acceleration or otherwise;

(2) default by the Company or any Subsidiary Guarantor for 30 days in payment of any interest on the Notes;

(3) default by the Company or any Subsidiary Guarantor in the deposit of any optional redemption payment;

(4) default on any other Indebtedness (other than Non-Recourse Indebtedness and Unrestricted Subsidiary Indebtedness) of the Company, any Subsidiary Guarantor or any other Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) if either

(A) such default results in the acceleration of the maturity of any such Indebtedness having a principal amount of \$10.0 million or more individually or, taken together with the principal amount of any other such Indebtedness the maturity of which has been so accelerated, in the aggregate, or

(B) such default results from the failure to pay when due principal of, premium, if any, or interest on, any such Indebtedness, after giving effect to any applicable grace period (a "Payment Default"), having a principal amount of \$10.0 million or more individually or, taken together with the principal amount of any other Indebtedness under which there has been a Payment Default, in the aggregate;

(5) default in the performance, or breach of, the covenants set forth in the covenants captioned "Limitation on Restricted Payments" and "Limitations on Mergers and Consolidations," or in the performance, or breach of, any other covenant or agreement of the Company or any Subsidiary Guarantor in the Indenture and failure to remedy such default within a period of 45 days after written notice thereof from the Trustee or Holders of 25% of the principal amount of the outstanding Notes;

(6) the entry by a court of one or more judgments or orders for the payment of money against the Company, any Subsidiary Guarantor or any other Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary, provided that neither the Company nor any Restricted Subsidiary is liable, directly

or indirectly, for such judgment or order) in an aggregate amount in excess of \$10.0 million (net of applicable insurance coverage by a third party insurer which is acknowledged in writing by such insurer) that has not been vacated, discharged, satisfied or stayed pending appeal within 60 days from the entry thereof;

(7) the failure of a Guarantee by a Subsidiary Guarantor to be in full force and effect, or the denial or disaffirmance by such entity thereof; or

(8) certain events involving bankruptcy, insolvency or reorganization of the Company or any Subsidiary of the Company (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary).

The Indenture provides that the Trustee may withhold notice to the Holders of the Notes of any default (except in payment of principal of, or premium, if any, or interest on the Notes) if the Trustee considers it in the interest of the Holders of the Notes to do so.

If an Event of Default occurs and is continuing, the Trustee or the Holders of not less than 25% in principal amount of the Notes outstanding may declare the principal of and premium, if any, and accrued but unpaid interest on all the Notes to be due and payable. Upon such a declaration, such principal, premium, if any, and interest will be due and payable immediately. If an Event of Default relating to certain events of bankruptcy, insolvency or reorganization of the Company or any Subsidiary of the Company (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) occurs and is continuing, the principal of, and premium, if any, and interest on all the Notes will become and be immediately due and payable without any declaration or other act on the part of the Trustee or any Holders of the Notes. The amount due and payable on the acceleration of any Note will be equal to 100% of the principal amount of the Note, plus accrued and unpaid interest to the date of payment. Under certain circumstances, the Holders of a majority in principal amount of the outstanding Notes may rescind any such acceleration with respect to the Notes and its consequences.

No Holder of a Note may pursue any remedy under the Indenture unless

(1) the Trustee shall have received written notice of a continuing Event of Default,

(2) the Trustee shall have received a request from Holders of at least 25% in principal amount of the Notes to pursue such remedy,

(3) the Trustee shall have been offered indemnity reasonably satisfactory to it,

(4) the Trustee shall have failed to act for a period of 60 days after receipt of such notice, request and offer of indemnity and

(5) no direction inconsistent with such written request has been given to the Trustee during such 60-day period by the Holders of a majority in principal amount of the Notes;

provided, however, such provision does not affect the right of a Holder of any Note to sue for enforcement of any overdue payment thereon.

The Holders of a majority in principal amount of the Notes then outstanding will have the right to direct the time, method and place of conducting any proceeding for exercising any remedy available to the Trustee, subject to certain limitations specified in the Indenture. The Indenture requires the annual filing by the Company with the Trustee of a written statement as to compliance with the covenants contained in the Indenture.

Modification and Waiver

Modifications and amendments to the Indenture or the Notes may be made by the Company, the Subsidiary Guarantors and the Trustee with the consent of the Holders of a majority in principal amount of the Notes then outstanding; provided that no such modification or amendment may, without the consent of the Holder of each Note then outstanding affected thereby,

(1) reduce the percentage of principal amount of Notes whose Holders must consent to an amendment, supplement or waiver;

(2) reduce the rate or change the time for payment of interest, including default interest, on any Note;

(3) reduce the principal amount of any Note or change the Maturity Date;

(4) reduce the redemption price, including premium, if any, payable upon redemption of any Note or change the time at which any Note may or shall be redeemed;

(5) reduce the purchase price, including the premium, if any, payable upon the repurchase of any Note upon an Asset Sale or Change in Control, or change the time at which any Note may or shall be repurchased thereunder;

(6) make any Note payable in money other than that stated in such Note;

(7) impair the right to institute suit for the enforcement of any payment of principal of, or premium, if any, or interest on, any Note;

(8) make any change in the percentage of principal amount of Notes necessary to waive compliance with certain provisions of the Indenture; or

(9) waive a continuing Default or Event of Default in the payment of principal of, premium, if any, or interest on the Notes.

Modifications and amendments of the Indenture may be made by the Company and the Trustee without the consent of any Holders of the Notes in certain limited circumstances, including

(a) to cure any ambiguity, omission, defect or inconsistency,

(b) to provide for the assumption of the obligations of the Company or any Subsidiary Guarantor under the Indenture upon the merger, consolidation or sale or other disposition of all or substantially all of the assets of the Company or such Subsidiary Guarantor,

(c) to reflect the release of any Subsidiary Guarantor from its Guarantee of the Notes, or the addition of any Subsidiary of the Company as a Subsidiary Guarantor, in the manner provided in the Indenture,

(d) to comply with any requirement of the SEC in order to effect or maintain the qualification of the Indenture under the Trust Indenture Act or

(e) to make any change that would provide any additional benefit to the Holders or that does not adversely affect the rights of any Holder of the Notes in any material respect.

The Holders of a majority in aggregate principal amount of the Notes then outstanding may waive any past default under the Indenture, except a default in the payment of principal, premium, if any, or interest.

Legal Defeasance and Covenant Defeasance

The Company may, at its option and at any time, elect to have its obligations discharged with respect to the outstanding Notes ("Legal Defeasance"). Such Legal Defeasance means that the Company will be deemed to have paid and discharged the entire Indebtedness represented by such Notes, except for

(1) the rights of Holders of the Notes to receive payments solely from the trust fund described in the following paragraph in respect of the principal of, premium, if any, and interest on the Notes when such payments are due,

(2) the Company's obligations with respect to the Notes concerning the issuance of temporary Notes, transfers and exchanges of the Notes, replacement of mutilated, destroyed, lost or stolen Notes, the maintenance of an office or agency where the Notes may be surrendered for transfer or exchange or presented for payment, and duties of paying agents,

(3) the rights, powers, trusts, duties and immunities of the Trustee, and the Company's obligations in connection therewith and

(4) the Legal Defeasance provisions of the Indenture.

In addition, the Company may, at its option and at any time, elect to have the obligations of the Company released with respect to certain covenants described under "--Certain Covenants" ("Covenant Defeasance"), and thereafter any omission to comply with such obligations shall not constitute a Default or Event of Default. In the event Covenant Defeasance occurs, certain events (not including non-payment) described under "--Events of Default" will no longer constitute an Event of Default. If we exercise our Legal Defeasance or Covenant Defeasance option, each Subsidiary Guarantor will be released from all its obligations under the Indenture and its Guarantee.

In order to exercise either Legal Defeasance or Covenant Defeasance under the Indenture,

(1) the Company must irrevocably deposit with the Trustee, in trust, for the benefit of the Holders of the Notes, cash in U.S. Legal Tender, U.S. Government Securities, or a combination thereof, in such amounts as will be sufficient, in the opinion of a nationally recognized firm of independent public accountants, to pay the principal of, premium, if any, and interest on the outstanding amount of the Notes on the Maturity Date or on the applicable mandatory redemption date, as the case may be, of such principal or installment of principal, premium, if any, or interest;

(2) in the case of Legal Defeasance, the Company must deliver to the Trustee an opinion of counsel reasonably acceptable to the Trustee confirming that

(A) the Company has received from or there has been published by, the Internal Revenue Service a ruling or

(B) since the date of the Indenture, there has been a change in the applicable federal income tax law, in either case to the effect that, and based thereon such opinion of counsel shall confirm that, the Holders of the Notes will not recognize income, gain or loss for U.S. Federal income tax purposes as a result of such Legal Defeasance and will be subject to U.S. Federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Legal Defeasance had not occurred;

(3) in the case of Covenant Defeasance, the Company shall have delivered to the Trustee an opinion of counsel reasonably acceptable to the Trustee to the effect that the Holders of the Notes will not recognize income, gain or loss for U.S. Federal income tax purposes as a result of such Covenant Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Covenant Defeasance had not occurred;

(4) no Default or Event of Default shall have occurred and be continuing on the date of such deposit or insofar as Events of Default from bankruptcy or insolvency events are concerned, at any time in the period ending on the 91st day after the date of deposit;

(5) such Legal Defeasance or Covenant Defeasance shall not result in a breach or violation of, or constitute a default under the Indenture or any other material agreement or instrument to which the Company is a party or by which the Company is bound;

(6) the Company shall have delivered to the Trustee an officers' certificate stating that the deposit was not made by the Company with the intent of preferring the Holders of the Notes over other creditors of the Company or with the intent of defeating, hindering, delaying or defrauding creditors of the Company or others; and

(7) the Company shall have delivered to the Trustee an officers' certificate and an opinion of counsel each stating that the Company has complied with all conditions precedent provided for relating to the Legal Defeasance or the Covenant Defeasance.

Governing Law

The Indenture provides that it and the Notes will be governed by, and construed in accordance with, the laws of the State of New York.

The Trustee

The Bank of New York is the Trustee under the Indenture. The Bank of New York also serves as trustee for our 7.875% Senior Notes due 2004, our 8.375% Senior Notes due 2008, our 8.125% Senior Notes due 2011, our 8.5% Senior Notes due 2012, our 9% Senior Notes due 2012 and our 7.75% Senior Notes due 2015. We may also maintain banking and other commercial relationships with the Trustee and its affiliates in the ordinary course of business, and the Trustee may own our debt securities. Its address is 101 Barclay Street, 8th Floor, New York, New York 10286. The Company has also appointed the Trustee as the initial registrar and paying agent under the Indenture.

The Trustee is permitted to become an owner or pledgee of the Notes and may otherwise deal with the Company or its Subsidiaries or Affiliates with the same rights it would have if it were not Trustee. If, however, the Trustee acquires any conflicting interest (as defined in the Trust Indenture Act) after an Event of Default has occurred and is continuing, it must eliminate such conflict or resign.

In case an Event of Default shall occur (and be continuing), the Trustee will be required to use the degree of care and skill of a prudent person in the conduct of such person's own affairs. The Trustee will be under no obligation to exercise any of its powers under the Indenture at the request of any of the Holders of the Notes, unless such Holders have offered the Trustee indemnity reasonably satisfactory to it.

Book Entry, Delivery and Form

The Notes sold will be issued in the form of one or more global securities. The global securities will be deposited with, or on behalf of, the Depository and registered in the name of the Depository or its nominee. Except as set forth below, the global securities may be transferred, in whole and not in part, only to the Depository or another nominee of the Depository. Investors may hold their beneficial interests in the global securities directly through the Depository if they have an account with the Depository or indirectly through organizations which have accounts with the Depository.

Notes that are issued as described below under "--Certificated Notes" will be issued in definitive form. Upon the transfer of Notes in definitive form, such Notes will, unless the global securities have previously been exchanged for Notes in definitive form, be exchanged for an interest in the global securities representing the aggregate principal amount of Notes being transferred.

The Depository has advised the Company as follows: The Depository is a limited-purpose trust company organized under the laws of the State of New York, a member of the Federal Reserve System, a "clearing corporation" within the meaning of the New York Uniform Commercial Code, and a "clearing agency" registered pursuant to the provisions of Section 17A of the Exchange Act. The Depository was created to hold securities of institutions that have accounts with the Depository ("participants") and to facilitate the clearance and settlement of securities transactions among its participants in such securities through electronic book-entry changes in accounts of the participants, thereby eliminating the need for physical movement of securities certificates. The Depository's participants include securities brokers and dealers (which may include the initial purchasers), banks, trust companies, clearing corporations and certain other organizations. Access to the Depository's book-entry system is also available to others such as banks, brokers, dealers and trust companies that clear through or maintain a custodial relationship with a participant, whether directly or indirectly.

The Company expects that pursuant to procedures established by the Depository, upon the issuance of the global securities, the Depository will credit, on its book-entry registrations and transfer system, the aggregate

principal amount of new notes represented by such global securities to the accounts of participants exchanging outstanding notes. Ownership of beneficial interests in the global securities will be limited to participants or Persons that may hold interests through participants. Ownership of beneficial interests in the global securities will be shown on, and the transfer of those ownership interests will be effected only through, records maintained by the Depository (with respect to participants' interest) and such participants (with respect to the owners of beneficial interests in the global securities other than participants). The laws of some jurisdictions may require that certain purchasers of securities take physical delivery of such securities in definitive form. Such limits and laws may impair the ability to transfer or pledge beneficial interests in the global securities.

So long as the Depository, or its nominee, is the Holder of the global securities, the Depository or such nominee, as the case may be, will be considered the sole legal owner and Holder of the Notes for all purposes of the Notes and the Indenture. Except as set forth below, you will not be entitled to have the Notes represented by the global securities registered in your name, will not receive or be entitled to receive physical delivery of certificated Notes in definitive form and will not be considered to be the owner or Holder of any Notes under the global securities. The Company understands that under existing industry practice, in the event an owner of a beneficial interest in the global securities desires to take any action that the Depository, as the Holder of the global securities, is entitled to take, the Depository will authorize the participants to take such action, and that the participants will authorize beneficial owners owning through such participants to take such action or would otherwise act upon the instructions of beneficial owners owning through them.

The Company will make all payments on Notes represented by the global securities registered in the name of and held by the Depository or its nominee to the Depository or its nominee, as the case may be, as the owner and Holder of the global securities.

The Company expects that the Depository or its nominee, upon receipt of any payment in respect of the global securities, will credit participants' accounts with payments in amounts proportionate to their respective beneficial interests in the aggregate principal amount of the global securities as shown on the records of the Depository or its nominee. The Company also expects that payments by participants to owners of beneficial interest in the global securities held through such participants will be governed by standing instructions and customary practices and will be the responsibility of such participants. The Company will not have any responsibility or liability for any aspect of the records relating to, or payments made on account of, beneficial ownership interests in the global securities for any Notes or for maintaining, supervising or reviewing any records relating to such beneficial ownership interests or for any other aspect of the relationship between the Depository and its participants or the relationship between such participants and the owners of beneficial interests in the global securities owning through such participants.

Although the Depository has agreed to the foregoing procedures in order to facilitate transfers of interests in the global securities among participants of the Depository, it is under no obligations to perform or continue to perform such procedures, and such procedures may be discontinued at any time. Neither the Trustee nor the Company will have any responsibility for the performance by the Depository or its participants or indirect participants of their respective obligations under the rules and procedures governing their operations.

Certificated Notes

Subject to certain conditions, the Notes represented by the global securities will be exchangeable for certificated Notes in definitive form of like tenor as such Notes if:

- (1) the Depository notifies the Company that it is unwilling or unable to continue as Depository for the global securities and a successor is not promptly appointed or if at any time the Depository ceases to be a clearing agency registered under the Exchange Act or
- (2) the Company in its discretion at any time determines not to have all of the Notes represented by the global securities.

Any Notes that are exchangeable pursuant to the preceding sentence will be exchanged for certificated Notes issuable in authorized denominations and registered in such names as the Depositary shall direct. Subject to the foregoing, the global securities are not exchangeable, except for global securities of the same aggregate denominations to be registered in the name of the Depositary or its nominee.

FEDERAL INCOME TAX CONSIDERATIONS

Federal Income Tax Considerations of the Exchange of Outstanding Notes for New Notes

The following discussion is a summary of certain federal income tax considerations relevant to the exchange of outstanding notes for new notes, but does not purport to be a complete analysis of all potential tax effects. The discussion is based upon the Internal Revenue Code of 1986, as amended, Treasury Regulations, Internal Revenue Service rulings and pronouncements and judicial decisions now in effect, all of which may be subject to change at any time by legislative, judicial or administrative action. These changes may be applied retroactively in a manner that could adversely affect a holder of new notes. The description does not consider the effect of any applicable foreign, state, local or other tax laws or estate or gift tax considerations.

We believe that the exchange of outstanding notes for new notes should not be an exchange or otherwise a taxable event to a holder for United States federal income tax purposes. Accordingly, a holder should have the same adjusted issue price, adjusted basis and holding period in the new notes as it had in the outstanding notes immediately before the exchange.

PLAN OF DISTRIBUTION

Based on interpretations by the staff of the SEC in no action letters issued to third parties, we believe that you may transfer new notes issued under the exchange offer in exchange for the outstanding notes if:

- . you acquire the new notes in the ordinary course of your business; and
- . you are not engaged in, and do not intend to engage in, and have no arrangement or understanding with any person to participate in, a distribution of such new notes.

You may not participate in the exchange offer if you are:

- . our "affiliate" within the meaning of Rule 405 under the Securities Act; or
- . a broker-dealer that acquired outstanding notes directly from us.

Each broker-dealer that receives new notes for its own account pursuant to the exchange offer must acknowledge that it will deliver a prospectus in connection with any resale of such new notes. To date, the staff of the SEC has taken the position that broker-dealers may fulfill their prospectus delivery requirements with respect to transactions involving an exchange of securities such as this exchange offer, other than a resale of an unsold allotment from the original sale of the outstanding notes, with the prospectus contained in this registration statement. This prospectus, as it may be amended or supplemented from time to time, may be used by a broker-dealer in connection with resales of new notes received in exchange for outstanding notes where such outstanding notes were acquired as a result of market-making activities or other trading activities. We have agreed that, for a period of up to 180 days after the effective date of this registration statement, we will make this prospectus, as amended or supplemented, available to any broker-dealer for use in connection with any such resale. In addition, until such date, all dealers effecting transactions in new notes may be required to deliver a prospectus.

If you wish to exchange new notes for your outstanding notes in the exchange offer, you will be required to make representations to us as described in "Exchange Offer--Purpose and Effect of the Exchange Offer" and "--Procedures for Tendering--Your Representations to Us" in this prospectus. As indicated in the letter of transmittal, you will be deemed to have made these representations by tendering your outstanding notes in the exchange offer. In addition, if you are a broker-dealer who receives new notes for your own account in exchange for outstanding notes that were acquired by you as a result of market-making activities or other trading activities, you will be required to acknowledge, in the same manner, that you will deliver a prospectus in connection with any resale by you of such new notes.

We will not receive any proceeds from any sale of new notes by broker-dealers. New notes received by broker-dealers for their own account pursuant to the exchange offer may be sold from time to time in one or more transactions in the over-the-counter market:

- . in negotiated transactions;
- . through the writing of options on the new notes or a combination of such methods of resale;
- . at market prices prevailing at the time of resale; and
- . at prices related to such prevailing market prices or negotiated prices.

Any such resale may be made directly to purchasers or to or through brokers or dealers who may receive compensation in the form of commissions or concessions from any such broker-dealer or the purchasers of any such new notes. Any broker-dealer that resells new notes that were received by it for its own account pursuant to the exchange offer and any broker or dealer that participates in a distribution of such new notes may be deemed to be an "underwriter" within the meaning of the Securities Act. The letter of transmittal states that by acknowledging that it will deliver and by delivering a prospectus, a broker-dealer will not be deemed to admit that it is an "underwriter" within the meaning of the Securities Act.

For a period of 180 days after the effective date of this registration statement, we will promptly send additional copies of this prospectus and any amendment or supplement to this prospectus to any broker-dealer that requests such documents in the letter of transmittal. We have agreed to pay all expenses incident to the exchange offer (including the expenses of one counsel for the holders of the outstanding notes) other than commissions or concessions of any broker-dealers and will indemnify the holders of the outstanding notes (including any broker-dealers) against certain liabilities, including liabilities under the Securities Act.

LEGAL MATTERS

The validity of the new notes offered in this exchange offer will be passed upon for us by Vinson & Elkins L.L.P. in reliance on the opinion of Commercial Law Group P.C. with respect to matters of Oklahoma law. Shannon T. Self, a shareholder in Commercial Law Group, P.C., is a director of Chesapeake, and he owns 104,992 shares of our common stock.

EXPERTS

The consolidated financial statements of Chesapeake Energy Corporation, incorporated in this prospectus by reference to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002 have been so incorporated in reliance on the report of PricewaterhouseCoopers LLP, independent accountants, given on the authority of said firm as experts in auditing and accounting.

Estimates of the oil and gas reserves of Chesapeake Energy Corporation and related future net cash flows and the present values thereof, included in Chesapeake's annual report on Form 10-K for the year ended December 31, 2002, were based upon reserve reports prepared by Williamson Petroleum Consultants, Inc., Ryder Scott Company, L.P., Netherland, Sewell and Associates, Inc. and Lee Keeling and Associates, Inc., independent petroleum engineers. We have incorporated these estimates in reliance on the authority of each such firm as experts in such matters.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports and other information with the SEC. You may inspect and copy such material at the public reference facilities maintained by the SEC at 450 Fifth Street, N.W., Washington,

D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information on the public reference room. You can also find our SEC filings at the SEC's website at www.sec.gov and on our website at www.chkenenergy.com. Information contained on our website is not part of this prospectus.

In addition, our reports and other information concerning us can be inspected at the New York Stock Exchange, 20 Broad Street, New York, New York 10005, where our common stock is listed.

The following documents we filed with the SEC pursuant to the Exchange Act are incorporated herein by reference:

- . our annual report on Form 10-K for the fiscal year ended December 31, 2002; and
- . our current reports on Form 8-K filed on January 10, 2003, February 4, 2003, February 28, 2003, March 4, 2003, March 14, 2003 and March 19, 2003 (excluding any information furnished pursuant to Item 9 on any such current report on Form 8-K).

All documents filed by us pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (excluding any information furnished pursuant to Item 9 or Item 12 on any current report on Form 8-K) subsequent to the date of this filing and prior to the termination of this offering shall be deemed to be incorporated in this prospectus and to be a part hereof from the date of the filing of such document. Any statement contained in a document incorporated by reference herein shall be deemed to be modified or superseded for all purposes to the extent that a statement contained in this prospectus, or in any other subsequently filed document which is also incorporated or deemed to be incorporated by reference, modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

We will provide without charge to each person to whom this prospectus is delivered, upon written or oral request of such person, a copy of any or all documents incorporated by reference in this prospectus. Requests for such copies should be directed to Jennifer M. Grigsby, Secretary, Chesapeake Energy Corporation, 6100 North Western Avenue, Oklahoma City, Oklahoma 73118, by mail, or if by telephone at (405) 848-8000.

FORWARD-LOOKING STATEMENTS

This prospectus includes and incorporates by reference "forward-looking statements" within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act. Forward-looking statements give our current expectations or forecasts of future events. They include statements regarding oil and gas reserve estimates, planned capital expenditures, the drilling of oil and gas wells and future acquisitions, the impact of the El Paso, ONEOK and Vintage acquisitions, expected oil and gas production, cash flow and anticipated liquidity, business strategy and other plans and objectives for future operations, expected future expenses and utilization of net operating loss carryforwards. Statements concerning the fair values of derivative contracts and their estimated contribution to our future results of operations are based upon market information as of a specific date. These market prices are subject to significant volatility.

Although we believe the expectations and forecasts reflected in these and other forward-looking statements are reasonable, we can give no assurance they will prove to have been correct. They can be affected by inaccurate assumptions or by known or unknown risks and uncertainties. Factors that could cause actual results to differ materially from expected results are described under "Risk Factors" and include:

- . the volatility of oil and gas prices;
- . our substantial indebtedness;
- . the cost and availability of drilling and production services;
- . our commodity price risk management activities, including counterparty contract performance risk;

- . uncertainties inherent in estimating quantities of oil and gas reserves, projecting future rates of production and the timing of development expenditures;
- . our ability to replace reserves;
- . the availability of capital;
- . uncertainties inherent in estimating quantities of oil and gas reserves;
- . projecting future rates of production and the timing of development expenditures;
- . uncertainties in evaluating oil and gas reserves of acquired properties and associated potential liabilities;
- . drilling and operating risks;
- . our ability to generate future taxable income sufficient to utilize our federal and state income tax net operating loss (NOL) carryforwards before their expiration;
- . future ownership changes which could result in additional limitations to our NOLs;
- . adverse effects of governmental and environmental regulation;
- . losses possible from pending or future litigation;
- . the strength and financial resources of our competitors; and
- . the loss of officers or key employees.

We caution you not to place undue reliance on these forward-looking statements, which speak only as of the date of this prospectus or as of the date of the report or document in which they are contained, and we undertake no obligation to update such information. We urge you to carefully review and consider the disclosures made in this prospectus and our reports filed with the SEC and incorporated by reference herein that attempt to advise interested parties of the risks and factors that may affect our business.

LETTER OF TRANSMITTAL
To Tender
Outstanding 7.50% Senior Notes due 2013
of

CHESAPEAKE ENERGY CORPORATION
Pursuant to the Exchange Offer and Prospectus dated _____, 2003

THE EXCHANGE OFFER AND WITHDRAWAL RIGHTS WILL EXPIRE AT 5:00 P.M., NEW YORK CITY TIME, ON _____, 2003 (THE "EXPIRATION DATE"), UNLESS THE EXCHANGE OFFER IS EXTENDED BY THE COMPANY.

The Exchange Agent for the Exchange Offer is:

The Bank of New York
101 Barclay Street--7 East
New York, New York 10286
Attention: Corporate Trust
Operations--Reorganization Unit
Facsimile: (212) 298-1915
Telephone: (212) 815-2742

IF YOU WISH TO EXCHANGE CURRENTLY OUTSTANDING 7.50% SENIOR NOTES DUE 2013 (THE "OUTSTANDING NOTES") FOR AN EQUAL AGGREGATE PRINCIPAL AMOUNT OF NEW 7.50% SENIOR NOTES DUE 2013 PURSUANT TO THE EXCHANGE OFFER, YOU MUST VALIDLY TENDER (AND NOT WITHDRAW) OUTSTANDING NOTES TO THE EXCHANGE AGENT PRIOR TO 5:00 P.M., NEW YORK CITY TIME, ON THE EXPIRATION DATE BY CAUSING AN AGENT'S MESSAGE TO BE RECEIVED BY THE EXCHANGE AGENT PRIOR TO SUCH TIME.

The undersigned hereby acknowledges receipt and review of the Prospectus, dated March [], 2003 (the "Prospectus"), of Chesapeake Energy Corporation, an Oklahoma corporation (the "Company"), and this Letter of Transmittal (the "Letter of Transmittal"), which together describe the Company's offer (the "Exchange Offer") to exchange its 7.50% Senior Notes due 2013 (the "New Notes") that have been registered under the Securities Act of 1933, as amended (the "Securities Act"), for a like principal amount of its issued and outstanding 7.50% Senior Notes due 2013 (the "Outstanding Notes"). Capitalized terms used but not defined herein have the respective meaning given to them in the Prospectus.

The Company reserves the right, at any time or from time to time, to extend the Exchange Offer at its discretion, in which event the term "Expiration Date" shall mean the latest date to which the Exchange Offer is extended. The Company shall notify the Exchange Agent and each registered holder of the Outstanding Notes of any extension by oral or written notice prior to 9:00 a.m., New York City time, on the next business day after the previously scheduled Expiration Date.

This Letter of Transmittal is to be used by holders of the Outstanding Notes. Tender of Outstanding Notes is to be made according to the Automated Tender Offer Program ("ATOP") of the Depository Trust Company ("DTC") pursuant to the procedures set forth in the prospectus under the caption "The Exchange Offer--Procedures for Tendering." DTC participants that are accepting the Exchange Offer must transmit their acceptance to DTC, which will verify the acceptance and execute a book-entry delivery to the Exchange Agent's DTC account. DTC will then send a computer generated message known as an "agent's message" to the exchange agent for its acceptance. For you to validly tender your Outstanding Notes in the Exchange Offer, the Exchange Agent must receive, prior to the Expiration Date, an agent's message under the ATOP procedures that confirms that:

- . DTC has received your instructions to tender your Outstanding Notes; and
- . You agree to be bound by the terms of this Letter of Transmittal.

By using the ATOP procedures to tender outstanding notes, you will not be required to deliver this Letter of Transmittal to the Exchange Agent. However, you will be bound by its terms, and you will be deemed to have made the acknowledgments and the representations and warranties it contains, just as if you had signed it.

PLEASE READ THE ACCOMPANYING INSTRUCTIONS CAREFULLY.

Ladies and Gentlemen:

1. By tendering Outstanding Notes in the Exchange Offer, you acknowledge receipt of the Prospectus and this Letter of Transmittal.

2. By tendering Outstanding Notes in the Exchange Offer, you represent and warrant that you have full authority to tender the Outstanding Notes described above and will, upon request, execute and deliver any additional documents deemed by the Company to be necessary or desirable to complete the tender of Outstanding Notes.

3. You understand that the tender of the Outstanding Notes pursuant to all of the procedures set forth in the Prospectus will constitute an agreement between and the Company as to the terms and conditions set forth in the Prospectus.

4. By tendering Outstanding Notes in the Exchange Offer, you acknowledge that the Exchange Offer is being made in reliance upon interpretations contained in no-action letters issued to third parties by the staff of the Securities and Exchange Commission (the "SEC"), including Exxon Capital Holdings Corp., SEC No-Action Letter (available April 13, 1989), Morgan Stanley & Co., Inc., SEC No-Action Letter (available June 5, 1991) and Shearman & Sterling, SEC No-Action Letter (available July 2, 1993), that the New Notes issued in exchange for the Outstanding Notes pursuant to the Exchange Offer may be offered for resale, resold and otherwise transferred by holders thereof (other than a broker-dealer who purchased Outstanding Notes exchanged for such New Notes directly from the Company to resell pursuant to Rule 144A or any other available exemption under the Securities Act of 1933, as amended (the "Securities Act") and any such holder that is an "affiliate" of the Company within the meaning of Rule 405 under the Securities Act), without compliance with the registration and prospectus delivery provisions of the Securities Act, provided that such New Notes are acquired in the ordinary course of such holders' business and such holders are not participating in, and have no arrangement with any person to participate in, the distribution of such New Notes.

5. By tendering Outstanding Notes in the Exchange Offer, you represent and warrant that:

a. the New Notes acquired pursuant to the Exchange Offer are being obtained in the ordinary course of your business, whether or not you are the holder;

b. neither you nor any such other person is engaging in or intends to engage in a distribution of such New Notes;

c. neither you nor any such other person has an arrangement or understanding with any person to participate in the distribution of such New Notes; and

d. neither the holder nor any such other person is an "affiliate," as such term is defined under Rule 405 promulgated under the Securities Act, of the Company.

6. You may, if you are unable to make all of the representations and warranties contained in Item 5 above and as otherwise permitted in the Registration Rights Agreement (as defined below), elect to have your Outstanding Notes registered in the shelf registration statement described in the Registration Rights Agreement, dated as of March 5, 2003 (the "Registration Rights Agreement"), by and among the Company, the Subsidiary Guarantors (as defined therein) and the Initial Purchaser (as defined therein). Such election may be made only by notifying the Company in writing at 6100 North Western Avenue, Oklahoma City, OK 73118, Attention: Chief Financial Officer. By making such election, you agree, as a holder of Outstanding Notes participating in a shelf registration, to indemnify and hold harmless the Company, each of the directors of the Company, each of the officers of the Company who signs such shelf registration statement, each person who controls the Company within the meaning of either the Securities Act or the Securities Exchange Act of 1934, as amended (the

"Exchange Act"), and each other holder of Outstanding Notes, from and against any and all losses, claims, damages or liabilities caused by any untrue statement or alleged untrue statement of a material fact contained in any shelf registration statement or prospectus, or in any supplement thereto or amendment thereof, or caused by the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading; but only with respect to information relating to the undersigned furnished in writing by or on behalf of the undersigned expressly for use in a shelf registration statement, a prospectus or any amendments or supplements thereto. Any such indemnification shall be governed by the terms and subject to the conditions set forth in the Registration Rights Agreement, including, without limitation, the provisions regarding notice, retention of counsel, contribution and payment of expenses set forth therein. The above summary of the indemnification provision of the Registration Rights Agreement is not intended to be exhaustive and is qualified in its entirety by the Registration Rights Agreement.

7. If you are a broker-dealer that will receive New Notes for its own account in exchange for Outstanding Notes that were acquired as a result of market-making activities or other trading activities, you acknowledge, by tendering Outstanding Notes in the Exchange Offer, that you will deliver a prospectus in connection with any resale of such New Notes; however, by so acknowledging and by delivering a prospectus, you will not be deemed to admit that you are an "underwriter" within the meaning of the Securities Act. If you are a broker-dealer and Outstanding Notes held for your own account were not acquired as a result of market-making or other trading activities, such Outstanding Notes cannot be exchanged pursuant to the Exchange Offer.

8. Any of your obligations hereunder shall be binding upon your successors, assigns, executors, administrators, trustees in bankruptcy and legal and personal representatives of the undersigned.

INSTRUCTIONS

FORMING PART OF THE TERMS AND CONDITIONS OF THE EXCHANGE OFFER

1. Book-Entry Confirmations.

Any confirmation of a book-entry transfer to the Exchange Agent's account at DTC of Outstanding Notes tendered by book-entry transfer (a "Book-Entry Confirmation"), as well as an agent's message, and any other documents required by this Letter of Transmittal, must be received by the Exchange Agent at its address set forth herein prior to 5:00 P.M., New York City time, on the Expiration Date.

2. Partial Tenders.

Tenders of Outstanding Notes will be accepted only in integral multiples of \$1,000. The entire principal amount of Outstanding Notes delivered to the Exchange Agent will be deemed to have been tendered unless otherwise communicated to the Exchange Agent. If the entire principal amount of all Outstanding Notes is not tendered, then Outstanding Notes for the principal amount of Outstanding Notes not tendered and Notes issued in exchange for any Outstanding Notes accepted will be delivered to the holder via the facilities of DTC promptly after the Outstanding Notes are accepted for exchange.

3. Validity of Tenders.

All questions as to the validity, form, eligibility (including time of receipt), acceptance, and withdrawal of tendered Outstanding Notes will be determined by the Company, in its sole discretion, which determination will be final and binding. The Company reserves the absolute right to reject any or all tenders not in proper form or the acceptance for exchange of which may, in the opinion of counsel for the Company, be unlawful. The Company also reserves the absolute right to waive any of the conditions of the Exchange Offer or any defect or irregularity in the tender of any Outstanding Notes. The Company's interpretation of the terms and conditions of the Exchange Offer (including the instructions on this Letter of Transmittal) will be final and binding on all parties. Unless waived, any defects or irregularities in connection with tenders of Outstanding Notes must be cured within such time as the Company shall determine. Although the Company intends to notify holders of defects or irregularities with respect to tenders of Outstanding Notes, neither the Company, the Exchange Agent, nor any other person shall be under any duty to give notification of any defects or irregularities in tenders or incur any liability for failure to give such notification. Tenders of Outstanding Notes will not be deemed to have been made until such defects or irregularities have been cured or waived. Any Outstanding Notes received by the Exchange Agent that are not properly tendered and as to which the defects or irregularities have not been cured or waived will be returned by the Exchange Agent to the tendering holders via the facilities of DTC, as soon as practicable following the Expiration Date.

4. Waiver of Conditions.

The Company reserves the absolute right to waive, in whole or part, any of the conditions to the Exchange Offer set forth in the Prospectus or in this Letter of Transmittal.

5. No Conditional Tender.

No alternative, conditional, irregular or contingent tender of Outstanding Notes will be accepted.

6. Request for Assistance or Additional Copies.

Requests for assistance or for additional copies of the Prospectus or this Letter of Transmittal may be directed to the Exchange Agent at the address or telephone number set forth on the cover page of this Letter of

Transmittal. Holders may also contact their broker, dealer, commercial bank, trust company or other nominee for assistance concerning the Exchange Offer.

7. Withdrawal.

Tenders may be withdrawn only pursuant to the limited withdrawal rights set forth in the Prospectus under the caption "Exchange Offer--Withdrawal of Tenders."

8. No Guarantee of Late Delivery.

There is no procedure for guarantee of late delivery in the Exchange Offer.

IMPORTANT: By using the ATOP procedures to tender outstanding notes, you will not be required to deliver this Letter of Transmittal to the Exchange Agent. However, you will be bound by its terms, and you will be deemed to have made the acknowledgments and the representations and warranties it contains, just as if you had signed it.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 20. Indemnification of Officers and Directors

Section 1031 of the Oklahoma General Corporation Act, under which Chesapeake is incorporated, authorizes the indemnification of directors and officers under certain circumstances. Article VIII of the Certificate of Incorporation of Chesapeake and Article VI of the Bylaws of Chesapeake also provide for indemnification of directors and officers under certain circumstances. These provisions, together with Chesapeake'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 (the "Securities Act"), as amended. In addition, Chesapeake maintains insurance, which insures its directors and officers against certain liabilities.

The Oklahoma General Corporation Act provides for indemnification of each of Chesapeake's officers and directors against (a) expenses, including attorneys' fees, judgments, fines and amounts paid in settlement actually and reasonably incurred by them in connection with any action, suit or proceeding brought by reason of such person being or having been a director, officer, employee or agent of Chesapeake, or of any other corporation, partnership, joint venture, trust or other enterprise at the request of Chesapeake, other than an action by or in the right of Chesapeake. To be entitled to indemnification, the individual must have acted in good faith and in a manner he reasonably believed to be in or not opposed to the best interest of Chesapeake, and with respect to any criminal action, the person seeking indemnification had no reasonable cause to believe that the conduct was unlawful and (b) expenses, including attorneys' fees, actually and reasonably incurred in connection with the defense or settlement of any action or suit by or in the right of Chesapeake brought by reason of the person seeking indemnification being or having been a director, officer, employee or agent of Chesapeake, or any other corporation, partnership, joint venture, trust or other enterprise at the request of Chesapeake, provided the actions were in good faith and were reasonably believed to be in or not opposed to the best interest of Chesapeake, except that no indemnification shall be made in respect of any claim, issue or matter as to which the individual shall have been adjudged liable to Chesapeake, unless and only to the extent that the court in which such action was decided has determined that the person is fairly and reasonably entitled to indemnity for such expenses which the court deems proper. Article VIII of Chesapeake's Certificate of Incorporation provides for indemnification of Chesapeake's director and officers. The Oklahoma General Corporation Act also permits Chesapeake to purchase and maintain insurance on behalf of Chesapeake's directors and officers against any liability arising out of their status as such, whether or not Chesapeake would have the power to indemnify them against such liability. These provisions may be sufficiently broad to indemnify such persons for liabilities arising under the Securities Act.

Chesapeake has entered into indemnity agreements with each of its directors and executive officers. Under each indemnity agreement, Chesapeake will pay on behalf of the indemnitee any amount which he is or becomes legally obligated to pay because of (a) any claim or claims from time to time threatened or made against him by any person because of any act or omission or neglect or breach of duty, including any actual or alleged error or misstatement or misleading statement, which he commits or suffers while acting in his capacity as a director and/or officer of Chesapeake or an affiliate or (b) being a party, or being threatened to be made a party, to any threatened, pending or contemplated action, suit or proceeding, whether civil, criminal, administrative or investigative, by reason of the fact that he is or was an officer, director, employee or agent of Chesapeake or an affiliate or is or was serving at the request of Chesapeake as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise. The payments which Chesapeake would be obligated to make under an indemnification agreement could include damages, charges, judgments, fines, penalties, settlements and costs, cost of investigation and cost of defense of legal, equitable or criminal actions, claims or proceedings and appeals therefrom, and costs of attachment, supersedeas, bail, surety or other bonds. Chesapeake also provides liability insurance for each of its directors and executive officers.

Item 21. Exhibits And Financial Statement Schedules

(a) Exhibits. The following exhibits are filed herewith pursuant to the requirements of Item 601 of Regulation S-K:

Exhibit No. -----	Description -----
2.1	Purchase and Sale Agreement By and Between El Paso Production Company and Noric, L.P. as Seller and Chesapeake EP Corporation as Buyer dated February 21, 2003. Incorporated herein by reference to Exhibit 2.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
3.1	Chesapeake's Restated Certificate of Incorporation together with Chesapeake's Certificate of Designation for the 6.75% Cumulative Convertible Preferred Stock, Certificate of Elimination for 2,000 Shares of 6.75% Cumulative Convertible Preferred Stock, Certificate of Designation for the Series A Junior Participating Preferred Stock and Certificate of Designation for the 6.00% Cumulative Convertible Preferred Stock. Incorporated herein by reference to Exhibit 3.1 to Chesapeake's registration statement on Form S-3 filed April 9, 2003.
3.2	Chesapeake's Bylaws. Incorporated herein by reference to Exhibit 3.2 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2001.
4.1	Indenture dated as of March 15, 1997 among Chesapeake, as issuer, Chesapeake Operating, Inc., Chesapeake Gas Development Corporation and Chesapeake Exploration Limited Partnership, as Subsidiary Guarantors, and The Bank of New York (formerly United States Trust Company of New York), as Trustee, with respect to 7.875% Senior Notes due 2004. Incorporated herein by reference to Exhibit 4.1 to Chesapeake's registration statement on Form S-4 (No. 333-24995). First Supplemental Indenture dated December 17, 1997 and Second Supplemental Indenture dated February 16, 1998. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's transition report on Form 10-K for the six months ended December 31, 1997. Second [Third] Supplemental Indenture dated April 22, 1998. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's registration statement on Form S-3 registration statement (No. 333-57235). Fourth Supplemental Indenture dated July 1, 1998. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 1998. Fifth Supplemental Indenture dated November 19, 1999. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2001. Sixth Supplemental Indenture dated December 31, 1999. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Seventh Supplemental Indenture dated September 12, 2001. Incorporated herein by reference to Exhibit 4.1.2 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Eighth Supplemental Indenture dated October 1, 2001. Incorporated herein by reference to Exhibit 4.1.3 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Ninth Supplemental Indenture dated December 17, 2001. Incorporated herein by reference to Exhibit 4.1.1 to Chesapeake's registration statement on Form S-3 (No. 333-76546). Tenth Supplemental Indenture dated as of June 28, 2002. Incorporated herein by reference to Exhibit 4.1.2 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Eleventh Supplemental Indenture dated as of July 8, 2002. Incorporated herein by reference to Exhibit 4.1.3 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Twelfth Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of March 15, 1997 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York (formerly United States Trust Company of New York), as Trustee, with respect to 7.875% Senior Notes due 2004. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.

Exhibit

No.

Description

- 4.2 Indenture dated as of March 15, 1997 among Chesapeake, as issuer, Chesapeake Operating, Inc., Chesapeake Gas Development Corporation and Chesapeake Exploration Limited Partnership, as Subsidiary Guarantors, and The Bank of New York (formerly United States Trust Company of New York), as Trustee, with respect to 8.5% Senior Notes due 2012. Incorporated herein by reference to Exhibit 4.3 to Chesapeake's registration statement on Form S-4 (No. 333-24995). First Supplemental Indenture dated December 17, 1997 and Second Supplemental Indenture dated February 16, 1998. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's transition report on Form 10-K for the six months ended December 31, 1997. Second [Third] Supplemental Indenture dated April 22, 1998. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's Amendment No. 1 to Form S-3 registration statement (No. 333-57235). Fourth Supplemental Indenture dated July 1, 1998. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 1998. Fifth Supplemental Indenture dated November 19, 1999. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2001. Sixth Supplemental Indenture dated December 31, 1999. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Seventh Supplemental Indenture dated September 12, 2001. Incorporated herein by reference to Exhibit 4.2.2 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Eighth Supplemental Indenture dated October 1, 2001. Incorporated herein by reference to Exhibit 4.2.3 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Ninth Supplemental Indenture dated December 17, 2001. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's registration statement on Form S-3 (No. 333-76546). Tenth Supplemental Indenture dated as of June 28, 2002. Incorporated herein by reference to Exhibit 4.2.2 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Eleventh Supplemental Indenture dated as of July 8, 2002. Incorporated herein by reference to Exhibit 4.2.3 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Twelfth Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of March 15, 1997 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York (formerly United States Trust Company of New York), as Trustee, with respect to 8.5% Senior Notes due 2012. Incorporated herein by reference to Exhibit 4.2.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
- 4.3 Indenture dated as of April 6, 2001 among Chesapeake, as issuer, its subsidiaries signatory thereto, as Subsidiary Guarantors, and The Bank of New York (formerly United States Trust Company of New York), as Trustee, with respect to 8.125% Senior Notes due 2011. Incorporated herein by reference to Exhibit 4.6 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2001. Supplemental Indenture dated May 14, 2001. Incorporated herein by reference to Exhibit 4.6 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2001. Second Supplemental Indenture dated September 12, 2001. Incorporated herein by reference to Exhibit 4.3.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Third Supplemental Indenture dated October 1, 2001. Incorporated herein by reference to Exhibit 4.3.2 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001. Fourth Supplemental Indenture dated December 17, 2001. Incorporated herein by reference to Exhibit 4.3.1 to Chesapeake's registration statement on Form S-3 (No. 333-76546). Fifth Supplemental Indenture dated as of June 28, 2002. Incorporated herein by reference to Exhibit 4.3.2 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Sixth Supplemental Indenture dated July 8, 2002. Incorporated herein by reference to Exhibit 4.3.3 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Seventh Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of April 6, 2001 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York (formerly

Exhibit

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- United States Trust Company of New York), as Trustee, with respect to 8.125% Senior Notes due 2011. Incorporated herein by reference to Exhibit 4.3.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
- 4.4 Indenture dated as of November 5, 2001 among Chesapeake, as issuer, its subsidiaries signatory thereto, as Subsidiary Guarantors and The Bank of New York, as Trustee, with respect to 8.375% Senior Notes due 2008. Incorporated herein by reference to Exhibit 4.16 to Chesapeake's registration statement on Form S-4 (No. 333-74584). First Supplemental Indenture dated December 17, 2001. Incorporated herein by reference to Exhibit 4.16.1 to Chesapeake's registration statement on Form S-3 (No. 333-76546). Second Supplemental Indenture dated as of June 28, 2002. Incorporated herein by reference to Exhibit 4.4.2 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Third Supplemental Indenture dated as of July 8, 2002. Incorporated herein by reference to Exhibit 4.4.3 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Fourth Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of November 5, 2001 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York, as Trustee, with respect to 8.375% Senior Notes due 2008. Incorporated herein by reference to Exhibit 4.4.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
- 4.5 Indenture dated as of August 12, 2002 among Chesapeake, as issuer, its subsidiaries signatory thereto, as Subsidiary Guarantors and The Bank of New York, with respect to its 9% Senior Notes due 2012. Incorporated herein by reference to Exhibit 4.14 to Chesapeake's registration statement on Form S-4 (No. 333-99289). First Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of August 12, 2002 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York, as Trustee, with respect to 9.0% Senior Notes due 2012. Incorporated herein by reference to Exhibit 4.5.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
- 4.6 Indenture dated as of December 20, 2002 among Chesapeake, as issuer, the subsidiaries signatory thereto, as Subsidiary Guarantors and The Bank of New York, as Trustee with respect to our 7.75% Senior Notes due 2015. Incorporated herein by reference to Exhibit 4.5 to Chesapeake's registration statement on Form S-4 (No. 333-102445). First Supplemental Indenture dated as of February 14, 2003 to Indenture dated as of December 20, 2002 among Chesapeake, as issuer, its subsidiaries signatory thereto as Subsidiary Guarantors, and The Bank of New York, as Trustee, with respect to 7.75% senior Notes due 2015. Incorporated herein by reference to Exhibit 4.6.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
- 4.7* Indenture dated as of March 5, 2003 among Chesapeake, as issuer, the subsidiaries signatory thereto, as Subsidiary Guarantors and The Bank of New York, as Trustee with respect to our 7.50% Senior Notes due 2013.
- 4.8 Agreement to furnish copies of unfiled long-term debt instruments. Incorporated herein by reference to Chesapeake's transition report on Form 10-K for the six months ended December 31, 1997.
- 4.9 \$225,000,000 Second Amended and Restated Credit Agreement, dated as of June 11, 2001, among Chesapeake Energy Corporation, Chesapeake Exploration Limited Partnership, as Borrower, Bear Stearns Corporate Lending Inc., as Syndication Agent, Union Bank of California, N.A., as Administrative Agent and Collateral Agent, BNP Paribas and Toronto Dominion (Texas), Inc., as Co-Documentation Agents and other lenders party thereto. Incorporated herein by reference to Exhibit 4.6 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2001. Consent and waiver letter dated September 10, 2001 and consent and waiver letter dated October 5, 2001. Incorporated herein by reference to Exhibits 4.6.1 and 4.6.2 to Chesapeake's quarterly report

Exhibit
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- on Form 10-Q for the quarter ended September 30, 2001, respectively. Consent and waiver letter dated November 2, 2001. Incorporated herein by reference to Exhibit 4.6.1 to Chesapeake's registration statement on Form S-4 (No. 333-74584). First Amendment dated March 8, 2002 with respect to Second Amended and Restated Credit Agreement. Incorporated herein by reference to Exhibit 4.6.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2001. Consent and waiver letter dated April 15, 2002. Incorporated herein by reference to Exhibit 4.6.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2002. Second Amendment dated June 4, 2002 with respect to Second Amended and Restated Credit Agreement. Incorporated by reference to Exhibit 4.6.1 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2002. Consent and waiver letter dated August 2, 2002. Incorporated herein by reference to Exhibit 4.6.2 to Chesapeake's registration statement on Form S-4 (No. 333-99289). Third Amendment dated September 20, 2002, with respect to the Second Amendment and Restated Credit Agreement. Incorporated herein by reference to Exhibit 4.6.3 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2002. Fourth Amendment dated November 4, 2002, with respect to the Second Amended and Restated Credit Agreement. Incorporated herein by reference to Exhibit 4.6.4 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2002. Consent and waiver letter dated December 11, 2002 with respect to the Second Amended and Restated Credit Agreement. Incorporated herein by reference to Exhibit 4.6.1 to Chesapeake's registration statement on Form S-4 (No. 333-102446.)
- 4.9.1* Fifth Amendment dated March 3, 2003 with respect to Second Amended and Restated Credit Agreement dated as of June 11, 2001 among Chesapeake Energy Corporation, Chesapeake Exploration Limited Partnership, as Borrower, Bear Stearns Corporate Lending Inc., as Syndication Agent, Union Bank of California, N.A., as Administrative Agent and Collateral Agent, BNP Paribas and Toronto Dominion (Texas), Inc., as Co-Documentation Agents and other lender parties thereto.
- 4.10 Warrant Agreement dated as of September 9, 1997 between Gothic Energy Corporation and UMB Bank, N.A. (formerly American Stock Transfer & Trust Company), as warrant agent, and Supplement to Warrant Agreement dated as of January 16, 2001. Incorporated herein by reference to Exhibit 4.9 to Registrant's annual report on Form 10-K for the year ended December 31, 2000.
- 4.11 Registration Rights Agreement dated as of September 9, 1997 among Gothic Energy Corporation, two of its subsidiaries, Oppenheimer & Co., Inc., Banc One Capital Corporation and Paribas Corporation. Incorporated herein by reference to Exhibit 4.10 to Registrant's annual report on Form 10-K for the year ended December 31, 2000.
- 4.15 Warrant Agreement dated as of April 21, 1998 between Gothic Energy Corporation and American Stock Transfer & Trust Company, as warrant agent, and Supplement to Warrant Agreement dated as of January 16, 2001. Incorporated herein by reference to Exhibit 4.14 to Registrant's annual report on Form 10-K for the year ended December 31, 2000.
- 4.16 Warrant Registration Rights Agreement dated as of April 21, 1998 among Gothic Energy Corporation and purchasers of units consisting of its 14-1/8% senior secured discount notes due 2006 and warrants to purchase its common stock. Incorporated herein by reference to Exhibit 4.15 to Registrant's annual report on Form 10-K for the year ended December 31, 2000.
- 4.17 Rights Agreement dated as of July 15, 1998 between Chesapeake and UMB Bank, N.A., as rights agent. Incorporated herein by reference to Exhibit 1 to Chesapeake's registration statement on Form 8-A filed July 16, 1998. Amendment No. 1 dated September 11, 1998. Incorporated herein by reference to Exhibit 10.3 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 1998.

Exhibit No.	Description
4.18*	Registration Rights Agreement dated March 5, 2003 between Chesapeake and Salomon Smith Barney Inc., Bear Stearns & Co., Inc., Credit Suisse First Boston LLC, Lehman Brothers Inc., Morgan Stanley & Co. Incorporated, BNP Paribas Securities Corp., Credit Lyonnais Securities (USA) Inc., and TD Securities (USA) Inc.
4.19	Registration Rights Agreement dated March 5, 2003 between Chesapeake and Credit Suisse First Boston LLC, Morgan Stanley & Co. Incorporated, Salomon Smith Barney Inc., Bear Stearns & Co., Inc., Lehman Brothers Inc., CIBC World Markets Corp., Johnson Rice & Company L.L.C., RBC Dain Rauscher Inc. and Simmons & Company International. Incorporated by reference to Exhibit 4.19 to Chesapeake's registration statement on Form S-3 filed April 8, 2003.
5.1*	Opinion of Vinson & Elkins L.L.P. regarding the validity of the securities being registered.
5.2*	Opinion of Commercial Law Group, P.C. regarding the validity of the securities being registered.
10.1.1+	Chesapeake's 1992 Incentive Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.1 to Chesapeake's registration statement on Form S-4 (No. 33-93718).
10.1.2+	Chesapeake's 1992 Nonstatutory Stock Option Plan, as Amended. Incorporated herein by reference to Exhibit 10.1.2 to Chesapeake's quarterly report on Form 10-Q for the quarter ended December 31, 1996.
10.1.3+	Chesapeake's 1994 Stock Option Plan, as amended. Incorporated herein by reference to Exhibit 10.1.3 to Chesapeake's quarterly report on Form 10-Q for the quarter ended December 31, 1996.
10.1.4+	Chesapeake's 1996 Stock Option Plan. Incorporated herein by reference to Chesapeake's definitive proxy statement for its 1996 annual meeting of shareholders.
10.1.5+	Chesapeake's 1999 Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.5 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 1999.
10.1.6+	Chesapeake's 2000 Employee Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.6 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2000.
10.1.7+	Chesapeake's 2000 Executive Officer Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.7 to Chesapeake's quarterly report on Form 10-Q for the quarter ended March 31, 2000.
10.1.8+	Chesapeake's 2001 Stock Option Plan. Incorporated herein by reference to Exhibit B to Chesapeake's definitive proxy statement for its 2001 annual meeting of shareholders filed April 30, 2001.
10.1.9+	Chesapeake's 2001 Executive Officer Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.9 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2001.
10.1.10+	Chesapeake's 2001 Nonqualified Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.10 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2001.
10.1.11+	Chesapeake's 2002 Stock Option Plan. Incorporated herein by reference to Exhibit A to Chesapeake's definitive proxy statement for its 2002 annual meeting of shareholders filed April 29, 2002.
10.1.12+	Chesapeake's 2002 Non-Employee Director Stock Option Plan. Incorporated herein by reference to Exhibit B to Chesapeake's definitive proxy statement for its 2002 annual meeting of shareholders filed April 29, 2002.
10.1.13+	Chesapeake's 2002 Nonqualified Stock Option Plan. Incorporated herein by reference to Exhibit 10.1.11 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2002.

Exhibit No. -----	Description -----
10.1.14	Chesapeake's 2003 Stock Award Plan for Non-Employee Directors. Incorporated herein by reference to Exhibit 10.1.14 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
10.1.15	Chesapeake Energy Corporation 401(k) Make-Up Plan. Incorporated herein by reference to Exhibit 10.1.15 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
10.1.16	Chesapeake Energy Corporation Deferred Compensation Plan. Incorporated herein by reference to Exhibit 10.1.16 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
10.2.1+	Second Amended and Restated Employment Agreement dated as of July 1, 2001, between Aubrey K. McClendon and Chesapeake Energy Corporation. Incorporated herein by reference to Exhibit 4.7 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001.
10.2.2+	Second Amended and Restated Employment Agreement dated as of July 1, 2001, between Tom L. Ward and Chesapeake Energy Corporation. Incorporated herein by reference to Exhibit 4.8 to Chesapeake's quarterly report on Form 10-Q for the quarter ended September 30, 2001.
10.2.3+	Amended and Restated Employment Agreement dated as of August 1, 2000 between Marcus C. Rowland and Chesapeake Energy Corporation. Incorporated herein by reference to Exhibit 10.2.3 to Chesapeake's registration statement on Form S-1 (No. 333-45872).
10.2.4+	Employment Agreement dated as of July 1, 2000, between Michael A. Johnson and Chesapeake Energy Corporation. Incorporated herein by reference to Exhibit 10.2.8 to Chesapeake's quarterly
10.2.5+	Employment Agreement dated as of July 1, 2000, between Martha A. Burger and Chesapeake Energy Corporation. Incorporated herein by reference to Exhibit 10.2.9 to Chesapeake's quarterly report on Form 10-Q for the quarter ended June 30, 2000.
10.3+	Form of Indemnity Agreement for officers and directors of Chesapeake and its subsidiaries. Incorporated herein by reference to Exhibit 10.30 to Chesapeake's registration statement on Form S-1 (No. 33-55600).
10.10	Partnership Agreement of Chesapeake Exploration Limited Partnership dated December 27, 1994 between Chesapeake Energy Corporation and Chesapeake Operating, Inc. Incorporated herein by reference to Exhibit 10.10 to Chesapeake's registration statement on Form S-4 (No. 33-93718).
10.11	Amended and Restated Limited Partnership Agreement of Chesapeake Louisiana, L.P. dated June 30, 1997 between Chesapeake Operating, Inc. and Chesapeake Energy Louisiana Corporation. Incorporated herein by reference to Exhibit 10.11 to Chesapeake's annual report on Form 10-K for the year ended June 30, 1997.
12	Computation of Ratios of Earnings and Fixed Charges. Incorporated herein by reference to Exhibit 12.1 to Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.
21*	Subsidiaries of Chesapeake.
23.1*	Consent of PricewaterhouseCoopers LLP.
23.2*	Consent of Williamson Petroleum Consultants, Inc.
23.3*	Consent of Ryder Scott Company L.P.
23.4*	Consent of Lee Keeling and Associates, Inc.
23.5*	Consent of Netherland, Sewell and Associates, Inc.
23.6*	Consent of Vinson & Elkins L.L.P. (included in Exhibit 5.1).
23.7*	Consent of Commercial Law Group, P.C. (included in Exhibit 5.2).

Exhibit No.	Description
24.1*	Power of Attorney (included in the signature pages of this Registration Statement).
25.1*	Statement of Eligibility on Form T-1 of The Bank of New York.

* Filed herewith.
+ Management contract or compensatory plan or arrangement.

(b) Financial Statement Schedules. Incorporated herein by reference to Item 8 of Chesapeake's annual report on Form 10-K for the year ended December 31, 2002.

Item 22. Undertakings

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of any Registrant, we have been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by any Registrant of expenses incurred or paid by a director, officer or controlling person of such 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, such 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 and will be governed by the final adjudication of such issue.

Each 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:

(a) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(b) To reflect in the prospectus any facts or events arising after the effective date of the 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 the 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 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;

(c) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement; and

(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.

(4) That, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrants annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934

(and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement 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.

(5) To respond to requests for information that is incorporated by reference into the prospectus pursuant to Items 4, 10(b), 11, or 13 of this Form, within one business day of receipt of such request, and to send the incorporated documents by first class mail or other equally prompt means.

This includes information contained in documents filed subsequent to the effective date of the registration statement through the date of responding to the request.

(6) To supply by means of a post-effective amendment all information concerning a transaction, and the company being acquired involved therein, that was not the subject of and included in this Registration Statement when it became effective.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant 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 April 7, 2003.

CHESAPEAKE ENERGY CORPORATION

By: /s/ AUBREY K. MCCLENDON

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

Each person whose signature appears below authorizes Aubrey K. McClendon and Marcus C. Rowland, and each of them, each of whom may act without joinder of the other, to execute in the name of each such person who is then an officer or director of the company and to file any amendments to this registration statement necessary or advisable to enable the company to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration of the securities which are the subject of this registration statement, which amendments may make such changes in the registration statement as such attorney may deem appropriate. Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature -----	Capacity -----	Date ----
/s/ AUBREY K. MCCLENDON ----- Aubrey K. McClendon	Chairman of the Board, Chief Executive Officer and Director (Principal Executive Officer)	April 7, 2003
/s/ TOM L. WARD ----- Tom L. Ward	President, Chief Operating Officer and Director (Principal Executive Officer)	April 7, 2003
/s/ MARCUS C. ROWLAND ----- Marcus C. Rowland	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	April 7, 2003
/s/ MICHAEL A. JOHNSON ----- Michael A. Johnson	Senior Vice President--Accounting, Controller and Chief Accounting Officer (Principal Accounting Officer)	April 7, 2003
----- Edgar F. Heizer, Jr.	Director	
/s/ BREENE M. KERR ----- Breene M. Kerr	Director	April 7, 2003
/s/ CHARLES T. MAXWELL ----- Charles T. Maxwell	Director	April 7, 2003
/s/ SHANNON T. SELF ----- Shannon T. Self	Director	April 7, 2003
/s/ FREDERICK B. WHITTEMORE ----- Frederick B. Whittemore	Director	April 7, 2003

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, each Registrant 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 April 7, 2003.

CHESAPEAKE EP CORPORATION
 CHESAPEAKE DELTA CORP.
 CHESAPEAKE OPERATING, INC.
 NOMAC DRILLING CORPORATION

By: /s/ MARCUS C. ROWLAND

 Name: Marcus C. Rowland
 Title: Vice President

Each person whose signature appears below authorizes Aubrey K. McClendon and Marcus C. Rowland, and each of them, each of whom may act without joinder of the other, to execute in the name of each such person who is then an officer or director of the company and to file any amendments to this registration statement necessary or advisable to enable the company to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration of the securities which are the subject of this registration statement, which amendments may make such changes in the registration statement as such attorney may deem appropriate. Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature -----	Capacity -----	Date -----
/s/ AUBREY K. MCCLENDON ----- Aubrey K. McClendon	President and Director (Principal Executive Officer)	April 7, 2003
/s/ TOM L. WARD ----- Tom L. Ward	Vice President and Director	April 7, 2003
/s/ MARCUS C. ROWLAND ----- Marcus C. Rowland	Vice President (Principal Financial and Accounting Officer)	April 7, 2003

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, each Registrant 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 April 7, 2003.

THE AMES COMPANY, L.L.C.
 CARMEN ACQUISITION, L.L.C.
 CHESAPEAKE ACQUISITION, L.L.C.
 CHESAPEAKE ENO ACQUISITION, L.L.C.
 CHESAPEAKE FOCUS, L.L.C.
 CHESAPEAKE KNAN ACQUISITION, L.L.C.
 CHESAPEAKE MOUNTAIN FRONT, L.L.C.
 CHESAPEAKE ORC, L.L.C.
 CHESAPEAKE ROYALTY, L.L.C.
 GOTHIC ENERGY, L.L.C.
 GOTHIC PRODUCTION, L.L.C.
 SAP ACQUISITION, L.L.C.

By: /s/ MARCUS C. ROWLAND
 Name: Marcus C. Rowland
 Title: Vice President

Each person whose signature appears below authorizes Aubrey K. McClendon and Marcus C. Rowland, and each of them, each of whom may act without joinder of the other, to execute in the name of each such person who is then an officer or manager of the company and to file any amendments to this registration statement necessary or advisable to enable the company to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration of the securities which are the subject of this registration statement, which amendments may make such changes in the registration statement as such attorney may deem appropriate. Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature -----	Capacity -----	Date ----
/s/ AUBREY K. MCCLENDON ----- Aubrey K. McClendon	Chief Executive Officer and Manager (Principal Executive Officer)	April 7, 2003
/s/ TOM L. WARD ----- Tom L. Ward	President and Manager	April 7, 2003
/s/ MARCUS C. ROWLAND ----- Marcus C. Rowland	Vice President (Principal Financial and Accounting Officer)	April 7, 2003

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, each Registrant 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 April 7, 2003.

CHESAPEAKE ENERGY LOUISIANA
CORPORATION

By: /s/ AUBREY K. MCCLENDON
Name: Aubrey K. McClendon
Title: Chief Executive Officer

Each person whose signature appears below authorizes Aubrey K. McClendon and Marcus C. Rowland, and each of them, each of whom may act without joinder of the other, to execute in the name of each such person who is then an officer or director of the company and to file any amendments to this registration statement necessary or advisable to enable the company to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration of the securities which are the subject of this registration statement, which amendments may make such changes in the registration statement as such attorney may deem appropriate. Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature -----	Capacity -----	Date ----
/s/ AUBREY K. MCCLENDON ----- Aubrey K. McClendon	Chief Executive Officer and Director (Principal Executive Officer)	April 7, 2003
/s/ TOM L. WARD ----- Tom L. Ward	President, Chief Operating Officer and Director	April 7, 2003
/s/ MARCUS C. ROWLAND ----- Marcus C. Rowland	Vice President--Finance (Principal Financial and Accounting Officer)	April 7, 2003

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, each Registrant 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 April 7, 2003.

CHESAPEAKE EXPLORATION LIMITED
 PARTNERSHIP
 CHESAPEAKE LOUISIANA, L.P.
 CHESAPEAKE PANHANDLE LIMITED
 PARTNERSHIP
 CHESAPEAKE-STAGHORN ACQUISITION L.P.
 CHESAPEAKE SIGMA, L.P.

By Chesapeake Operating, Inc., as
 general partner of each respective
 entity

By: /s/ AUBREY K. MCCLENDON

 Name: Aubrey K. McClendon
 Title: Chief Executive Officer

Each person whose signature appears below authorizes Aubrey K. McClendon and Marcus C. Rowland, and each of them, each of whom may act without joinder of the other, to execute in the name of each such person who is then an officer or director of the company and to file any amendments to this registration statement necessary or advisable to enable the company to comply with the Securities Act of 1933, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration of the securities which are the subject of this registration statement, which amendments may make such changes in the registration statement as such attorney may deem appropriate. Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature -----	Capacity -----	Date ----
/s/ AUBREY K. MCCLENDON ----- Aubrey K. McClendon	Chief Executive Officer and Director of Chesapeake Operating, Inc. (Principal Executive Officer)	April 7, 2003
/s/ TOM L. WARD ----- Tom L. Ward	President, Chief Operating Officer and Director of Chesapeake Operating, Inc.	April 7, 2003
/s/ MARCUS C. ROWLAND ----- Marcus C. Rowland	Executive Vice President--Finance and Chief Financial Officer of Chesapeake Operating, Inc. (Principal Financial and Accounting Officer)	April 7, 2003

=====

CHESAPEAKE ENERGY CORPORATION

as Issuer,

THE SUBSIDIARY GUARANTORS,

as Guarantors,

AND

THE BANK OF NEW YORK,
as Trustee

INDENTURE

DATED AS OF MARCH 5, 2003

7.50% SENIOR NOTES DUE 2013

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CROSS-REFERENCE TABLE

TIA SECTION	INDENTURE SECTION
310 (a) (1)	7.10
(a) (2)	7.10
(a) (3)	N.A.
(a) (4)	N.A.
(a) (5)	7.08
(b)	7.08; 7.10
(c)	N.A.
311 (a)	7.11
(b)	7.11
(c)	N.A.
312 (a)	2.05
(b)	12.03
(c)	12.03
313 (a)	7.06
(b) (1)	N.A.
(b) (2)	7.06
(c)	7.06; 12.02
(d)	7.06
314 (a)	4.02; 4.03;
12.02 (b)	N.A.
(c) (1)	12.04
(c) (2)	12.04
(c) (3)	N.A.
(d)	N.A.
(e)	12.05
(f)	N.A.
315 (a)	7.01 (b)
(b)	7.05; 12.02
(c)	7.01 (a)
(d)	7.01 (c)
(e)	6.11
316 (a) (last sentence)	2.09
(a) (1) (A)	6.05
(a) (1) (B)	6.02; 6.04;
9.02 (a) (2)	N.A.
(b)	6.07
(c)	N.A.
317 (a) (1)	6.08
(a) (2)	6.09
(b)	2.04

318 (a)	12.01
318 (c)	12.01

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N.A. means Not Applicable

NOTE: This Cross-Reference table shall not, for any purpose, be deemed part of this Indenture.

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NOTE: This Table of Contents shall not, for any purpose, be deemed to be a part of this Indenture.

INDENTURE, dated as of March 5, 2003, among CHESAPEAKE ENERGY CORPORATION, an Oklahoma corporation (the "Company"), the SUBSIDIARY GUARANTORS listed as signatories hereto and The Bank of New York, a New York corporation, as Trustee.

Each party agrees as follows for the benefit of the other parties and for the equal and ratable benefit of the holders of the Company's 7.50% Senior Notes due 2013:

ARTICLE ONE

DEFINITIONS AND INCORPORATION BY REFERENCE

SECTION 1.01. Definitions.

"Additional Securities" means, subject to the Company's compliance with Section 4.09(a), 7.50% Senior Notes due 2013 issued from time to time after the Issue Date under the terms of this Indenture (other than pursuant to Section 2.06, 2.07, 2.09 or 3.06 of this Indenture and other than Exchange Securities or Private Exchange Securities issued pursuant to an exchange offer for other Securities outstanding under this Indenture).

"Adjusted Consolidated EBITDA" means the Consolidated Net Income of the Company and its Restricted Subsidiaries for the Reference Period, (a) increased (to the extent deducted in determining Consolidated Net Income) by the sum, without duplication, of: (i) all income and state franchise taxes of the Company and its Restricted Subsidiaries paid or accrued according to GAAP for such period (other than income taxes attributable to extraordinary, unusual or non-recurring gains or losses); (ii) all interest expense of the Company and its Restricted Subsidiaries paid or accrued in accordance with GAAP for such period (including amortization of original issue discount or premium); (iii) depreciation and depletion of the Company and its Restricted Subsidiaries; (iv) amortization of the Company and its Restricted Subsidiaries including, without limitation, amortization of capitalized debt issuance costs; (v) any loss realized in accordance with GAAP upon the sale or other disposition of any property, plant or equipment of the Company or its Restricted Subsidiaries (including pursuant to any Sale/Leaseback Transaction) which is not sold or otherwise disposed of in the ordinary course of business and any loss realized in accordance with GAAP upon the sale or other disposition of any Capital Stock of any Person; (vi) any loss realized in accordance with GAAP from currency exchange transactions not in the ordinary course of business

consistent with past practice; (vii) any loss net of income taxes realized in accordance with GAAP attributable to extraordinary items; (viii) any charges associated solely with the prepayment of any Indebtedness; and (ix) any other non-cash charges to the extent deducted from Consolidated Net Income and (b) decreased (to the extent included in determining Consolidated Net Income) by the sum of (i) the amount, of deferred revenues that are amortized during the Reference Period and are attributable to reserves that are subject to Volumetric Production Payments and (ii) amounts recorded in accordance with GAAP as repayments of principal and interest pursuant to Dollar-Denominated Production Payments.

"Adjusted Consolidated EBITDA Coverage Ratio" means, for any Reference Period, the ratio on a pro forma basis of (a) Adjusted Consolidated EBITDA for the Reference Period to (b) Adjusted Consolidated Interest Expense for such Reference Period; provided, that, in calculating Adjusted Consolidated EBITDA and Adjusted Consolidated Interest Expense (i) acquisitions which occurred during the Reference Period or subsequent to the Reference Period and on or prior to the date of the transaction giving rise to the need to calculate the Adjusted Consolidated EBITDA Coverage Ratio (the "Transaction Date") shall be assumed to have occurred on the first day of the Reference Period, (ii) the incurrence of any Indebtedness (including the issuance of the Securities) or issuance of any Disqualified Stock during the Reference Period or subsequent to the Reference Period and on or prior to the Transaction Date shall be assumed to have occurred on the first day of such Reference Period, (iii) any Indebtedness that had been outstanding during the Reference Period that has been repaid on or prior to the Transaction Date shall be assumed to have been repaid as of the first day of such Reference Period, (iv) the Adjusted Consolidated Interest Expense attributable to interest of any Indebtedness or dividends on any Disqualified Stock bearing a floating interest (or dividend) rate shall be computed on a pro forma basis as if the rate in effect on the Transaction Date were the average rate in effect during the entire Reference Period and (v) in determining the amount of Indebtedness pursuant to Section 4.09 the incurrence of Indebtedness or issuance of Disqualified Stock giving rise to the need to calculate the Adjusted consolidated EBITDA Coverage Ratio and, to the extent the net proceeds from the incurrence or issuance thereof are used to retire Indebtedness, the application of the proceeds therefrom shall be assumed to have occurred on the first day of the Reference Period.

"Adjusted Consolidated Interest Expense" means, with respect to the Company and its Restricted Subsidiaries, for the Reference Period, the aggregate amount (without duplication) of (a) interest expensed in accordance with GAAP (including, in accordance with the following sentence, interest attributable to Capitalized Lease Obligations, but excluding interest attributable to Dollar-Denominated Production Payments and amortization of deferred debt expense) during such period in respect of all Indebtedness of the Company and its Restricted Subsidiaries (including (i) amortization of original issue discount or premium on any Indebtedness (other than with respect to the Existing Notes and the Securities), (ii) the interest portion of all deferred payment obligations, calculated in accordance with GAAP, and (iii) all commissions, discounts and other fees and charges owed with respect to bankers' acceptance financings and currency and interest rate swap arrangements, in each case to the extent attributable to such period), and (b) dividend requirements of the Company and its Restricted Subsidiaries with respect to any Preferred Stock dividends (whether in cash or otherwise (except dividends paid solely in shares of Qualified Stock)) paid (other than to the Company or any of its Restricted Subsidiaries), declared, accrued or accumulated during such period, divided by one minus the applicable actual combined federal, state, local and foreign income tax rate of the Company and its Subsidiaries (expressed as a decimal), on a consolidated basis, for the four quarters immediately preceding the date of the transaction giving rise to the need to calculate Consolidated Interest Expense, in each case to the extent attributable to such period and excluding items eliminated in consolidation. For purposes of this definition, (a) interest on a Capitalized Lease Obligation shall be deemed to accrue at an interest rate reasonably determined by the Company to be the rate of interest implicit in such Capitalized Lease Obligation in accordance with GAAP and (b) interest expense attributable to any Indebtedness represented by the guarantee by the Company or a Restricted Subsidiary of the Company of an obligation of another Person shall be deemed to be the interest expense attributable to the Indebtedness guaranteed.

"Adjusted Consolidated Net Tangible Assets" or "ACNTA" means (without duplication), as of the date of determination, (a) the sum of (i) discounted future net revenue from proved oil and gas reserves of the Company and its Restricted Subsidiaries calculated in accordance with SEC guidelines before any state or federal income taxes, as estimated by independent petroleum engineers in a reserve report prepared as of the end of the Company's most recently completed fiscal year, as increased by, as of the date of

determination, the discounted future net revenue of (A) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries attributable to any acquisition consummated since the date of such year-end reserve report, and (B) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries attributable to extensions, discoveries and other additions and upward revisions of estimates of proved oil and gas reserves due to exploration, development or exploitation, production or other activities conducted or otherwise occurring since the date of such year-end reserve report, which, in the case of sub-clauses (A) and (B), would, in accordance with standard industry practice, result in such increases as calculated in accordance with SEC guidelines (utilizing the prices utilized in such year-end reserve report), and decreased by, as of the date of determination, the discounted future net revenue of (C) estimated proved oil and gas reserves of the Company and its Restricted Subsidiaries produced or disposed of since the date of such year-end reserve report and (D) reductions in the estimated oil and gas reserves of the Company and its Restricted Subsidiaries since the date of such year-end reserve report attributable to downward revisions of estimates of proved oil and gas reserves due to exploration, development or exploitation, production or other activities conducted or otherwise occurring since the date of such year-end reserve report which, in the case of sub-clauses (C) and (D), would, in accordance with standard industry practice, result in such decreases as calculated in accordance with SEC guidelines (utilizing the prices utilized in such year-end reserve report); provided that, in the case of each of the determinations made pursuant to clauses (A) through (D), such increases and decreases shall be as estimated by the Company's engineers, (ii) the capitalized costs that are attributable to oil and gas properties of the Company and its Restricted Subsidiaries to which no proved oil and gas reserves are attributable, based on the Company's books and records as of a date no earlier than the date of the Company's latest annual or quarterly financial statements, (iii) the Net Working Capital on a date no earlier than the date of the Company's latest annual or quarterly financial statements and (iv) the greater of (I) the net book value on a date no earlier than the date of the Company's latest annual or quarterly financial statements and (II) the appraised value, as estimated by independent appraisers, of other tangible assets (including Investments in unconsolidated Subsidiaries) of the Company and its Restricted Subsidiaries, as of a date no earlier than the date of the Company's latest audited financial statements, minus (b) the sum of (i) minority interests, (ii) any gas balancing liabilities of the Company and its Restricted

Subsidiaries reflected as a long-term liability in the Company's latest annual or quarterly financial statements, (iii) the discounted future net revenue, calculated in accordance with SEC guidelines (utilizing the prices utilized in the Company's year-end reserve report), attributable to reserves which are required to be delivered to third parties to fully satisfy the obligations of the Company and its Restricted Subsidiaries with respect to Volumetric Production Payments on the schedules specified with respect thereto, (iv) the discounted future net revenue, calculated in accordance with SEC guidelines, attributable to reserves subject to Dollar-Denominated Production Payments which, based on the estimates of production included in determining the discounted future net revenue specified in (a) (i) above (utilizing the same prices utilized in the Company's year-end reserve report), would be necessary to fully satisfy the payment obligations of the Company and its Restricted Subsidiaries with respect to Dollar-Denominated Production Payments on the schedules specified with respect thereto and (v) the discounted future net revenue, calculated in accordance with SEC guidelines (utilizing the same prices utilized in the Company's year-end reserve report), attributable to reserves subject to participation interests, overriding royalty interests or other interests of third parties, pursuant to participation, partnership, vendor financing or other agreements then in effect, or which otherwise are required to be delivered to third parties. If the Company changes its method of accounting from the full cost method to the successful efforts method or a similar method of accounting, Adjusted Consolidated Net Tangible Assets will continue to be calculated as if the Company were still using the full cost method of accounting.

"Adjusted Net Assets of a Subsidiary Guarantor" at any date shall mean the lesser of (i) the amount by which the fair value of the property of such Subsidiary Guarantor exceeds the total amount of liabilities, including, without limitation, contingent liabilities (after giving effect to all other fixed and contingent liabilities incurred or assumed on such date), but excluding liabilities under the Guarantee of such Subsidiary Guarantor at such date and (ii) the amount by which the present fair saleable value of the assets of such Subsidiary Guarantor at such date exceeds the amount that will be required to pay the probable liability of such Subsidiary Guarantor on its debts (after giving effect to all other fixed and contingent liabilities incurred or assumed on such date and after giving effect to any collection from any Subsidiary of such Subsidiary Guarantor in respect of the obligations of such Subsidiary

under the Guarantee), excluding debt in respect of the Guarantee, as they become absolute and matured.

"Affiliate" of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person. For the purposes of this definition, "control" when used with respect to any specified Person means the power to direct the management and policies of such Person directly or indirectly, whether through the ownership of Voting Stock, by contract or otherwise; and the terms "controlling" and "controlled" have meanings correlative to the foregoing.

"Agent" means any Registrar, Paying Agent or co-registrar.

"Asset Sale" means any sale, lease, transfer, exchange or other disposition (or series of related sales, leases, transfers, exchanges or dispositions) having a fair market value of \$1,000,000 or more of shares of Capital Stock of a Restricted Subsidiary (other than directors' qualifying shares), or of property or assets (including the creation of Dollar-Denominated Production Payments and Volumetric Production Payments, other than Dollar-Denominated Production Payments and Volumetric Production Payments created or sold in connection with the financing of, and within 30 days after, the acquisition of the properties subject thereto) or any interests therein (each referred to for purposes of this definition as a "disposition") by the Company or any of its Restricted Subsidiaries, including any disposition by means of a merger, consolidation or similar transaction (other than (a) by the Company to a Restricted Subsidiary or by a Restricted Subsidiary to the Company or another Restricted Subsidiary, (b) a sale of oil, gas or other hydrocarbons or other mineral products in the ordinary course of business of the Company's oil and gas production operations, (c) any abandonment, farm-in, farm-out, lease and sub-lease of developed and/or undeveloped properties made or entered into in the ordinary course of business, but excluding (x) any sale of a net profits or overriding royalty interest, in each case conveyed from or burdening proved developed or proved undeveloped reserves and (y) any sale of hydrocarbons or other mineral products as a result of the creation of Dollar-Denominated Production Payments or Volumetric Production Payments, other than Dollar-Denominated Production Payments and Volumetric Production Payments created or sold in connection with the financing of, and within 30 days after, the acquisition of the properties subject thereto), (d) the disposition of all or substantially all of the assets of the Company in compliance with Article Five, (e) Sale/Leaseback

Transactions in compliance with Section 4.13, (f) the provision of services and equipment for the operation and development of the Company's oil and gas wells, in the ordinary course of the Company's oil and gas service businesses, notwithstanding that such transactions may be recorded as asset sales in accordance with full cost accounting guidelines, and (g) the issuance by the Company of shares of its Capital Stock).

"Attributable Indebtedness" means, with respect to any particular lease under which any Person is at the time liable and at any date as of which the amount thereof is to be determined, the present value of the total net amount of rent required to be paid by such Person under the lease during the primary term thereof, without giving effect to any renewals at the option of the lessee, discounted from the respective due dates thereof to such date at the rate of interest per annum implicit in the terms of the lease. As used in the preceding sentence, the "net amount of rent" under any lease for any such period shall mean the sum of rental and other payments required to be paid with respect to such period by the lessee thereunder excluding any amounts required to be paid by such lessee on account of maintenance and repairs, insurance, taxes, assessments, water rates or similar charges. In the case of any lease which is terminable by the lessee upon payment of a penalty, such net amount of rent shall also include the amount of such penalty, but no rent shall be considered as required to be paid under such lease subsequent to the first date upon which it may be so terminated.

"Average Life" means, as of the date of determination, with respect to any Indebtedness, the quotient obtained by dividing (i) the product of (x) the number of years from such date to the date of each successive scheduled principal payment of such Indebtedness multiplied by (y) the amount of such principal payment by (ii) the sum of all such principal payments.

"Board of Directors" means, with respect to any Person, the Board of Directors of such Person or any committee of the Board of Directors of such Person duly authorized to act on behalf of the Board of Directors of such Person.

"Board Resolution" means, with respect to any Person, a copy of a resolution certified by the Secretary or an Assistant Secretary of such Person to have been duly adopted by the Board of Directors or the managing partner(s) of such Person and to be in full force and effect

on the date of such certification, and delivered to the Trustee.

"Business Day" means any day on which the New York Stock Exchange, Inc. is open for trading and which is not a Legal Holiday.

"Capital Stock" means, with respect to any Person, any and all shares, interests, participations or other equivalents (however designated) of corporate stock or partnership or limited liability company interests and any and all warrants, options and rights with respect thereto (whether or not currently exercisable), including each class of common stock and preferred stock of such Person.

"Capitalized Lease Obligations" of any Person means the obligations of such Person to pay rent or other amounts under a lease of property, real or personal, that is required to be capitalized for financial reporting purposes in accordance with GAAP, and the amount of such obligations shall be the capitalized amount thereof determined in accordance with GAAP.

"Change of Control" means the occurrence of any of the following: (i) the sale, lease or transfer, in one or a series of related transactions, of all or substantially all of the Company's assets to any Person or group (as such term is used in Section 13(d)(3) of the Exchange Act), other than to Permitted Holders; (ii) the adoption of a plan relating to the liquidation or dissolution of the Company; (iii) the acquisition, directly or indirectly, by any Person or group (as such term is used in Section 13(d)(3) of the Exchange Act), other than Permitted Holders, of beneficial ownership (as defined in Rule 13d-3 under the Exchange Act, except that such Person shall be deemed to have beneficial ownership of all shares that any such Person has the right to acquire, whether such right is exercisable immediately or only after passage of time) of more than 50% of the aggregate voting power of the Voting Stock of the Company; provided, however, that the Permitted Holders beneficially own (as defined in Rules 13d-3 and 13d-5 under the Exchange Act), directly or indirectly, in the aggregate a lesser percentage of the total voting power of the Voting Stock of the Company than such other Person and do not have the right or ability by voting power, contract or otherwise to elect or designate for election a majority of the Board of Directors of the Company (for the purposes of this definition, such other Person shall be deemed to beneficially own any Voting Stock of a specified corporation held by a parent corporation, if such other Person is the beneficial owner (as defined above), directly

or indirectly, of more than 35% of the voting power of the Voting Stock of such parent corporation and the Permitted Holders beneficially own (as defined in this proviso), directly or indirectly, in the aggregate a lesser percentage of the voting power of the Voting Stock of such parent corporation and do not have the right or ability by voting power, contract or otherwise to elect or designate for election a majority of the Board of Directors of such parent corporation); or (iv) during any period of two consecutive years, individuals who at the beginning of such period constituted the Board of Directors of the Company (together with any new directors whose election by such Board of Directors or whose nomination for election by the shareholders of the Company was approved by a vote of 66-2/3% of the directors of the Company then still in office who were either directors at the beginning of such period or whose election or nomination for election was previously so approved) cease for any reason to constitute a majority of the Board of Directors of the Company then in office.

"Company" means the party named as such above, until a successor replaces such Person in accordance with the terms of this Indenture, and thereafter means such successor.

"Consolidated Net Income" of the Company means, for any period, the aggregate net income (or loss) of the Company and its Restricted Subsidiaries for such period on a consolidated basis, determined in accordance with GAAP; provided, however, that there shall not be included in such Consolidated Net Income: (a) any net income of any Person if such Person is not the Company or a Restricted Subsidiary, except that (i) subject to the limitations contained in clause (d) below, the Company's equity in the net income of any such Person for such period shall be included in such Consolidated Net Income up to the aggregate amount of cash or cash equivalents actually distributed by such Person during such period to the Company or a Restricted Subsidiary as a dividend or other distribution (subject, in the case of a dividend or other distribution to a Restricted Subsidiary, to the limitations contained in clause (c) below) and (ii) the Company's equity in a net loss of any such Person (other than an Unrestricted Subsidiary) for such period shall be included in determining such Consolidated Net Income; (b) any net income (or loss) of any Person acquired by the Company or a Subsidiary in a pooling of interests transaction for any period prior to the date of such acquisition; (c) the net income of any Restricted Subsidiary to the extent that the payment of dividends or the making of distributions by such Restricted Subsidiary, directly or indirectly, to the Company, is prohibited; (d) any gain (but not loss) realized

upon the sale or other disposition of any property, plant or equipment of the Company or any Restricted Subsidiary (including pursuant to any Sale/Leaseback Transaction) which is not sold or otherwise disposed of in the ordinary course of business and any gain (but not loss) realized upon the sale or other disposition of any Capital Stock of any Person; (e) any gain (but not loss) from currency exchange transactions not in the ordinary course of business consistent with past practice; (f) the cumulative effect of a change in accounting principles; (g) to the extent deducted in the calculation of net income, the non-cash charges associated with the repayment of Indebtedness with the proceeds from the sale of the Securities or any other Senior Indebtedness scheduled to mature no earlier than the Indebtedness being repaid and the prepayment of any of the Securities or such other Senior Indebtedness; and (h) any writedowns of non-current assets; provided, however, that any "ceiling limitation" writedowns under SEC guidelines shall be treated as capitalized costs, as if such writedowns had not occurred; (i) any gain (but not loss) attributable to extraordinary items; and (j) any unrealized non-cash gains or losses or charges in respect of hedge or non-hedge derivatives (including those resulting from the application of FAS 133).

"Consolidated Tangible Net Worth" means, with respect to the Company and its Restricted Subsidiaries, as at any date of determination, the sum of Capital Stock (other than Disqualified Stock) and additional paid-in capital plus retained earnings (or minus accumulated deficit) minus all intangible assets, including, without limitation, organization costs, patents, trademarks, copyrights, franchises, research and development costs, and any amount reflected in treasury stock, of the Company and its Restricted Subsidiaries determined on a consolidated basis in accordance with GAAP.

"Credit Facilities" means, one or more debt facilities (including, without limitation, the Company's existing credit facility) or commercial paper facilities, in each case with banks or other institutional lenders providing for revolving credit loans, term loans, receivables financing (including through the sale of receivables to such lenders or to special purpose entities formed to borrow from such lenders against such receivables) or letters of credit, in each case, as amended, restated, modified, renewed, refunded, replaced or refinanced in whole or in part from time to time.

"Currency Hedge Obligations" means, at any time as to the Company and its Restricted Subsidiaries, the

obligations of such Person at such time that were incurred in the ordinary course of business pursuant to any foreign currency exchange agreement, option or futures contract or other similar agreement or arrangement designed to protect against or manage such Person's or any of its Subsidiaries' exposure to fluctuations in foreign currency exchange rates.

"Default" means any event which is, or after notice or passage of time would be, an Event of Default.

"Disinterested Director" means, with respect to an Affiliate Transaction or series of related Affiliate Transactions, a member of the Board of Directors of the Company who has no financial interest, and whose employer has no financial interest, in such Affiliate Transaction or series of related Affiliate Transactions.

"Disqualified Stock" means any Capital Stock of the Company or any Restricted Subsidiary of the Company which, by its terms (or by the terms of any security into which it is convertible or for which it is exchangeable), or upon the happening of any event or with the passage of time, matures or is mandatorily redeemable, pursuant to a sinking fund obligation or otherwise, or is redeemable at the option of the holder thereof, in whole or in part, on or prior to the Maturity Date or which is exchangeable or convertible into debt securities of the Company or any Restricted Subsidiary of the Company, except to the extent that such exchange or conversion rights cannot be exercised prior to the Maturity Date.

"Dollar-Denominated Production Payments" mean production payment obligations recorded as liabilities in accordance with GAAP, together with all undertakings and obligations in connection therewith.

"Equity Offering" means any underwritten public offering of Capital Stock (other than Disqualified Stock) of the Company pursuant to a registration statement filed pursuant to the Securities Act or any private placement of Capital Stock (other than Disqualified Stock) of the Company (other than to any Person who, prior to such private placement, was an Affiliate of the Company) which offering or placement is consummated after the Issue Date.

"Exchange Act" means the Securities Exchange Act of 1934, as amended, and the rules and regulations of the SEC thereunder.

"Existing Notes" means the Company's outstanding (i) 7.875% Senior Notes due 2004, (ii) 8.5% Senior Notes due

2012, (iii) 8.125% Senior Notes due 2011, (iv) 8.375% Senior Notes due 2008, (v) 9% Senior Notes due 2012 and (vi) 7.75% Senior Notes due 2015.

"GAAP" means generally accepted accounting principles as in effect in the United States of America as of the Issue Date.

"Guarantee" means, individually and collectively, the guarantees given by the Subsidiary Guarantors pursuant to Article Ten hereof.

"Holder" means a Person in whose name a Security is registered on the Registrar's books.

"Indebtedness" means, without duplication, with respect to any Person, (a) all obligations of such Person (i) in respect of borrowed money (whether or not the recourse of the lender is to the whole of the assets of such Person or only to a portion thereof), (ii) evidenced by bonds, notes, debentures or similar instruments, (iii) representing the balance deferred and unpaid of the purchase price of any property or services (other than accounts payable or other obligations arising in the ordinary course of business), (iv) evidenced by bankers' acceptances or similar instruments issued or accepted by banks, (v) for the payment of money relating to a Capitalized Lease Obligation, or (vi) evidenced by a letter of credit or a reimbursement obligation of such Person with respect to any letter of credit; (b) all net obligations of such Person under Interest Rate Hedging Agreements, Oil and Gas Hedging Contracts and Currency Hedge Obligations, except to the extent such net obligations are taken into account in the determination of future net revenues from proved oil and gas reserves for purposes of the calculation of Adjusted Consolidated Net Tangible Assets; (c) all liabilities of others of the kind described in the preceding clauses (a) or (b) that such Person has guaranteed or that are otherwise its legal liability (including, with respect to any Production Payment, any warranties or guaranties of production or payment by such Person with respect to such Production Payment but excluding other contractual obligations of such Person with respect to such Production Payment); (d) Indebtedness (as otherwise defined in this definition) of another Person secured by a Lien on any asset of such Person, whether or not such Indebtedness is assumed by such Person, the amount of such obligations being deemed to be the lesser of (1) the full amount of such obligations so secured, and (2) the fair market value of such asset, as determined in good faith by the Board of Directors of such Person, which determination shall be evidenced by a

Board Resolution, (e) with respect to such Person, the liquidation preference or any mandatory redemption payment obligations in respect of Disqualified Stock; (f) the aggregate preference in respect of amounts payable on the issued and outstanding shares of Preferred Stock of any of the Company's Restricted Subsidiaries in the event of any voluntary or involuntary liquidation, dissolution or winding up (excluding any such preference attributable to such shares of Preferred Stock that are owned by such Person or any of its Restricted Subsidiaries; provided, that if such Person is the Company, such exclusion shall be for such preference attributable to such shares of Preferred Stock that are owned by the Company or any of its Restricted Subsidiaries); and (g) any and all deferrals, renewals, extensions, refinancings and refundings (whether direct or indirect) of, or amendments, modifications or supplements to, any liability of the kind described in any of the preceding clauses (a), (b), (c), (d), (e), (f) or this clause (g), whether or not between or among the same parties. Subject to clause (c) of the preceding sentence, neither Dollar-Denominated Production Payments nor Volumetric Production Payments shall be deemed to be Indebtedness.

"Indenture" means this Indenture, as amended or supplemented from time to time in accordance with the terms hereof.

"Initial Purchasers" means, collectively, Salomon Smith Barney Inc., Bear, Stearns & Co. Inc., Credit Suisse First Boston LLC, Lehman Brothers Inc., Morgan Stanley & Co. Incorporated, BNP Paribas Securities Corp., Credit Lyonnais Securities (USA) Inc. and TD Securities (USA) Inc.

"Interest Rate Hedging Agreements" means, with respect to the Company and its Restricted Subsidiaries, the obligations of such Persons under (i) interest rate swap agreements, interest rate cap agreements and interest rate collar agreements and (ii) other agreements or arrangements designed to protect any such Person or any of its Subsidiaries against fluctuations in interest rates.

"Investment" of any Person means (i) all investments by such Person in any other Person in the form of loans, advances or capital contributions, (ii) all guarantees of Indebtedness or other obligations of any other Person by such Person, (iii) all purchases (or other acquisitions for consideration) by such Person of assets, Indebtedness, Capital Stock or other securities of any other Person and (iv) all other items that would be classified as investments (including, without limitation, purchases of assets outside

the ordinary course of business) or advances on a balance sheet of such Person prepared in accordance with GAAP.

"Issue Date" means March 5, 2003.

"Lien" means, with respect to any Person, any mortgage, pledge, lien, encumbrance, easement, restriction, covenant, right-of-way, charge or adverse claim affecting title or resulting in an encumbrance against real or personal property of such Person, or a security interest of any kind (including any conditional sale or other title retention agreement, any lease in the nature thereof, any option, right of first refusal or other similar agreement to sell, in each case securing obligations of such Person and any filing of or agreement to give any financing statement under the Uniform Commercial Code (or equivalent statute or statutes) of any jurisdiction).

"Make-Whole Amount" with respect to a Security means an amount equal to the excess, if any, of (i) the present value of the remaining interest, premium and principal payments due on such Security (excluding any portion of such payments of interest accrued as of the redemption date) as if such Security were redeemed on September 15, 2008, computed using a discount rate equal to the Treasury Rate plus 50 basis points, over (ii) the outstanding principal amount of such Security. As used herein, "Treasury Rate" is defined as the yield to maturity (calculated on a semi-annual bond equivalent basis) at the time of the computation of United States Treasury securities with a constant maturity (as compiled by and published in the most recent Federal Reserve Statistical Release H.15 (519), which has become publicly available at least two Business Days prior to the date of the redemption notice or, if such Statistical Release is no longer published, any publicly available source of similar market data) most nearly equal to the then remaining maturity of the Securities assuming redemption of the Securities on September 15, 2008; provided, however, that if the Make-Whole Average Life of such Security is not equal to the constant maturity of the United States Treasury security for which a weekly average yield is given, the Treasury Rate shall be obtained by linear interpolation (calculated to the nearest one-twelfth of a year) from the weekly average yields of United States Treasury securities for which such yields are given, except that if the Make-Whole Average Life of such Securities is less than one year, the weekly average yield on actually traded United States Treasury securities adjusted to a constant maturity of one year shall be used. As used herein, "Make-Whole Average Life" means the number of years (calculated to the nearest

one-twelfth) between the date of redemption and September 15, 2008.

"Make-Whole Price" means the greater of (i) the sum of (A) the outstanding principal amount of the Securities to be redeemed plus (B) the Make-Whole Amount and (ii) the redemption price (expressed as a percentage of the principal amount) of the Securities on September 15, 2008 set forth in Section 3.07.

"Maturity Date" means September 15, 2013.

"Net Available Proceeds" means, with respect to any Asset Sale or Sale/ Leaseback Transaction of any Person, cash proceeds received (including any cash proceeds received by way of deferred payment of principal pursuant to a note or installment receivable or otherwise, but only as and when received, and excluding any other consideration until such time as such consideration is converted into cash) therefrom, in each case net of all legal, title and recording tax expenses, commissions and other fees and expenses incurred, and all federal, state or local taxes required to be accrued as a liability as a consequence of such Asset Sale or Sale/ Leaseback Transaction, and in each case net of all Indebtedness which is secured by such assets, in accordance with the terms of any Lien upon or with respect to such assets, or which must, by its terms or in order to obtain a necessary consent to such Asset Sale or Sale/ Leaseback Transaction or by applicable law, be repaid out of the proceeds from such Asset Sale or Sale/Leaseback Transaction and which is actually so repaid.

"Net Cash Proceeds" means, in the case of any sale by the Company of securities pursuant to clauses (B) or (C) of Section 4.10(a)(iii), the aggregate net cash proceeds received by the Company, after payment of expenses, commissions, discounts and any other transaction costs incurred in connection therewith.

"Net Working Capital" means (i) all current assets of the Company and its Restricted Subsidiaries, minus (ii) all current liabilities of the Company and its Restricted Subsidiaries, except current liabilities included in Indebtedness.

"Non-Recourse Indebtedness" means Indebtedness or that portion of Indebtedness of a Non-Recourse Subsidiary as to which (a) neither the Company nor any other Subsidiary (other than a Non-Recourse Subsidiary) (i) provides credit support, including any undertaking, agreement or instrument

which would constitute Indebtedness or (ii) is directly or indirectly liable for such Indebtedness and (b) no default with respect to such Indebtedness (including any rights which the holders thereof may have to take enforcement action against a Non-Recourse Subsidiary) would permit (upon notice, lapse of time or both) any holder of any other Indebtedness (other than Non-Recourse Indebtedness) of the Company or its Subsidiaries (other than a Non-Recourse Subsidiary) to declare a default on such other Indebtedness or cause the payment thereof to be accelerated or payable prior to its stated maturity.

"Non-Recourse Subsidiary" means a Subsidiary or an Affiliate (i) established for the purpose of acquiring or investing in property securing Non-Recourse Indebtedness, (ii) substantially all of the assets of which consist of property securing Non-Recourse Indebtedness, and (iii) which shall have been designated as a Non-Recourse Subsidiary by a Board Resolution adopted by the Board of Directors of the Company, as evidenced by an Officers' Certificate delivered to the Trustee. The Company may redesignate any Non-Recourse Subsidiary of the Company to be a Subsidiary other than a Non-Recourse Subsidiary by a Board Resolution adopted by the Board of Directors of the Company, as evidenced by an Officers' Certificate delivered to the Trustee, if, after giving effect to such redesignation, the Company could borrow \$1.00 of additional Indebtedness pursuant to Section 4.09(a) (such redesignation being deemed an incurrence of additional Indebtedness (other than Non-Recourse Indebtedness)).

"Officer" means, with respect to any Person, the Chairman of the Board, the President, any Vice President, the Chief Financial Officer or the Treasurer of such Person.

"Officers' Certificate" means, with respect to any Person, a certificate signed by two officers or by an officer and either the Secretary, or an Assistant Secretary or Assistant Treasurer of such Person. One of the officers signing an Officers' Certificate given pursuant to Section 4.03(a) shall be the principal executive, financial or accounting officer of the Person delivering such certificate.

"Oil and Gas Business" means the business of the exploration for, and exploitation, development, production, processing (but not refining), marketing, storage and transportation of, hydrocarbons, and other related energy and natural resource businesses (including oil and gas services businesses related to the foregoing).

"Oil and Gas Hedging Contracts" means any oil and gas purchase or hedging agreements, and other agreement or arrangement, in each case, that is designed to provide protection against price fluctuations of oil, gas or other commodities.

"Oil and Gas Securities" means the Voting Stock of a Person primarily engaged in the Oil and Gas Business, provided that such Voting Stock shall constitute a majority of the Voting Stock of such Person in the event that such Voting Stock is not registered under Section 12 of the Exchange Act.

"Opinion of Counsel" means a written opinion from legal counsel who is reasonably acceptable to the Trustee. The counsel may be an employee of or counsel to the Company (or any Subsidiary Guarantor, if applicable) or the Trustee.

"Permitted Business Investments" means (i) Investments in assets used in the Oil and Gas Business; (ii) the acquisition of Oil and Gas Securities; (iii) the entry into operating agreements, joint ventures, processing agreements, farm-out agreements, development agreements, area of mutual interest agreements, contracts for the sale, transportation or exchange of oil and natural gas, unitization agreements, pooling arrangements, joint bidding agreements, service contracts, partnership agreements (whether general or limited) or other similar or customary agreements, transactions, properties, interests or arrangements, and Investments and expenditures in connection therewith or pursuant thereto, in each case made or entered into in the ordinary course of the oil and Gas Business, excluding, however, Investments in corporations; (iv) the acquisition of working interests, royalty interests or mineral leases relating to oil and gas properties; (v) Investments by the Company or any Restricted Subsidiary in any Person which, immediately prior to the making of such Investment, is a Restricted Subsidiary; (vi) Investments in the Company by any Restricted Subsidiary; (vii) Investments permitted under Section 4.11 or Section 4.13; (viii) Investments in any Person the consideration for which consists of Qualified Stock and (ix) any other Investments in an amount not to exceed 10% of Adjusted Consolidated Net Tangible Assets determined as of the date of the making or incurrence of such Investment.

"Permitted Company Refinancing Indebtedness" means Indebtedness of the Company, the net proceeds of which are used to renew, extend, refinance, refund or repurchase outstanding Indebtedness of the Company, provided that (i) if

the Indebtedness (including the Securities) being renewed, extended, refinanced, refunded or repurchased is pari passu with or subordinated in right of payment to the Securities, then such Indebtedness is pari passu or subordinated in right of payment to, as the case may be, the Securities at least to the same extent as the Indebtedness being renewed, extended, refinanced, refunded or repurchased, (ii) such Indebtedness is scheduled to mature no earlier than the Indebtedness being renewed, extended, refinanced, refunded or repurchased, and (iii) such Indebtedness has an Average Life at the time such Indebtedness is incurred that is equal to or greater than the Average Life of the Indebtedness being renewed, extended, refinanced, refunded or repurchased; provided, further, that such Indebtedness (to the extent that such Indebtedness constitutes Permitted Company Refinancing Indebtedness) is in an aggregate principal amount (or, if such Indebtedness is issued at a price less than the principal amount thereof, the aggregate amount of gross proceeds therefrom is) not in excess of the aggregate principal amount then outstanding of the Indebtedness being renewed, extended, refinanced, refunded or repurchased (or if the Indebtedness being renewed, extended, refinanced, refunded or repurchased was issued at a price less than the principal amount thereof, then not in excess of the amount of liability in respect thereof determined in accordance with GAAP).

"Permitted Financial Investments" means the following kinds of instruments if, in the case of instruments referred to in clauses (i)-(iv) below, on the date of purchase or other acquisition of any such instrument by the Company or any Subsidiary, the remaining term to maturity is not more than one year; (i) readily marketable obligations issued or unconditionally guaranteed as to principal of and interest thereon by the United States of America or by any agency or authority controlled or supervised by and acting as an instrumentality of the United States of America; (ii) repurchase obligations for instruments of the type described in clause (i) for which delivery of the instrument is made against payment; (iii) obligations (including, but not limited to, demand or time deposits, bankers' acceptances and certificates of deposit) issued by a depository institution or trust company incorporated or doing business under the laws of the United States of America, any state thereof or the District of Columbia or a branch or subsidiary of any such depository institution or trust company operating outside the United States, provided, that such depository institution or trust company has, at the time of the Company's or such Subsidiary's investment therein or contractual commitment providing for such investment, capital surplus or undivided profits (as of the date of such

institution's most recently published financial statements) in excess of \$500,000,000; (iv) commercial paper issued by any corporation, if such commercial paper has, at the time of the Company's or any Subsidiary's investment therein or contractual commitment providing for such investment, credit ratings of A-1 (or higher) by Standard & Poor's Ratings Services and P-1 (or higher) by Moody's Investors Service, Inc.; and (v) money market mutual or similar funds having assets in excess of \$500,000,000.

"Permitted Holders" means Aubrey K. McClendon and Tom L. Ward and their respective Affiliates.

"Permitted Indebtedness" means (i) additional Indebtedness of the Company and its Restricted Subsidiaries under Credit Facilities in a principal amount outstanding under this clause (i) at any time not to exceed the greater of (a) \$300 million and (b) \$100 million plus 20% of Adjusted Consolidated Net Tangible Assets; (ii) Indebtedness of the Company and its Restricted Subsidiaries outstanding on the Issue Date; (iii) other Indebtedness of the Company and its Restricted Subsidiaries in a principal amount not to exceed \$40 million at any one time outstanding; (iv) Non-Recourse Indebtedness; (v) Indebtedness of the Company to any Restricted Subsidiary of the Company and Indebtedness of any Restricted Subsidiary of the Company to the Company or another Restricted Subsidiary of the Company; (vi) Permitted Company Refinancing Indebtedness; (vii) Permitted Subsidiary Refinancing Indebtedness; (viii) obligations of the Company and its Restricted Subsidiaries under Currency Hedge Obligations, Oil and Gas Hedging Contracts or Interest Rate Hedging Agreements; (ix) Indebtedness under the Securities (excluding any Additional Securities); (x) Indebtedness of a Subsidiary pursuant to a Guarantee of the Securities in accordance with Article Ten of this Indenture; and (xi) Indebtedness consisting of any guarantee by the Company or one of its Restricted Subsidiaries of Indebtedness of the Company or a Restricted Subsidiary outstanding on the Issue Date or permitted by this Indenture to be incurred thereafter by the Company or its Restricted Subsidiary.

"Permitted Investments" means Permitted Business Investments and Permitted Financial Investments.

"Permitted Liens" means (i) Liens existing on the Issue Date; (ii) Liens securing Indebtedness under Credit Facilities permitted by this Indenture to be incurred; (iii) Liens now or hereafter securing any Interest Rate Hedging Agreements so long as the related Indebtedness (a) constitutes the Existing Notes or the Securities (or any

Permitted Company Refinancing Indebtedness in respect thereof) or (b) is, or is permitted to be under this Indenture, secured by a Lien on the same property securing such interest rate hedging obligations; (iv) Liens securing Permitted Company Refinancing Indebtedness or Permitted Subsidiary Refinancing Indebtedness; provided, that such Liens extend to or cover only the property or assets currently securing the Indebtedness being refinanced and that the Indebtedness being refinanced was not incurred under the Credit Facilities; (v) Liens for taxes, assessments and governmental charges not yet delinquent or being contested in good faith and for which adequate reserves have been established to the extent required by GAAP; (vi) mechanics', worker's, materialmen's, operators' or similar Liens arising in the ordinary course of business; (vii) Liens in connection with worker's compensation, unemployment insurance or other social security, old age pension or public liability obligations; (viii) Liens, deposits or pledges to secure the performance of bids, tenders, contracts (other than contracts for the payment of money), leases, public or statutory obligations, surety, stay, appeal, indemnity, performance or other similar bonds, or other similar obligations arising in the ordinary course of business; (ix) survey exceptions, encumbrances, easements or reservations of, or rights of others for, rights of way, zoning or other restrictions as to the use of real properties, and minor defects in title which, in the case of any of the foregoing, were not incurred or created to secure the payment of borrowed money or the deferred purchase price of property or services, and in the aggregate do not materially adversely affect the value of such properties or materially impair use for the purposes of which such properties are held by the Company or any Restricted Subsidiaries; (x) Liens on, or related to, properties to secure all or part of the costs incurred in the ordinary course of business of exploration, drilling, development or operation thereof; (xi) Liens on pipeline or pipeline facilities which arise out of operation of law; (xii) judgment and attachment Liens not giving rise to an Event of Default or Liens created by or existing from any litigation or legal proceeding that are currently being contested in good faith by appropriate proceedings and for which adequate reserves have been made; (xiii) (a) Liens upon any property of any Person existing at the time of acquisition thereof by the Company or a Restricted Subsidiary, (b) Liens upon any property of a Person existing at the time such Person is merged or consolidated with the Company or any Restricted Subsidiary or existing at the time of the sale or transfer of any such property of such Person to the Company or any Restricted Subsidiary, or (c) Liens upon any property of a Person existing at the time such

Person becomes a Restricted Subsidiary; provided, that in each case such Lien has not been created in contemplation of such sale, merger, consolidation, transfer or acquisition, and provided, further, that in each such case no such Lien shall extend to or cover any property of the Company or any Restricted Subsidiary other than the property being acquired and improvements thereon; (xiv) Liens on deposits to secure public or statutory obligations or in lieu of surety or appeal bonds entered into in the ordinary course of business; (xv) Liens in favor of collecting or payor banks having a right of setoff, revocation, refund or chargeback with respect to money or instruments of the Company or any Subsidiary on deposit with or in possession of such bank; (xvi) purchase money security interests granted in connection with the acquisition of assets in the ordinary course of business and consistent with past practices, provided, that (A) such Liens attach only to the property so acquired with the purchase money indebtedness secured thereby and (B) such Liens secure only Indebtedness that is not in excess of 100% of the purchase price of such assets; (xvii) Liens reserved in oil and gas mineral leases for bonus or rental payments and for compliance with the terms of such leases; (xviii) Liens arising under partnership agreements, oil and gas leases, farm-out agreements, division orders, contracts for the sale, purchase, exchange, transportation or processing (but not refining) of oil, gas or other hydrocarbons, unitization and pooling declarations and agreements, development agreements, operating agreements, area of mutual interest agreements, and other similar agreements which are customary in the oil and Gas Business; (xix) Liens securing obligations of the Company or any of its Restricted Subsidiaries under Currency Hedge Obligations or Oil and Gas Hedging Contracts; and (xx) Liens to secure Dollar-Denominated Production Payments and Volumetric Production Payments.

"Permitted Subsidiary Refinancing Indebtedness" means Indebtedness of any Restricted Subsidiary, the net proceeds of which are used to renew, extend, refinance, refund or repurchase outstanding Indebtedness of such Restricted Subsidiary, provided that (i) if the Indebtedness (including the Guarantees) being renewed, extended, refinanced, refunded or repurchased is pari passu with or subordinated in right of payment to the Guarantees, then such Indebtedness is pari passu with or subordinated in right of payment to, as the case may be, the Guarantees at least to the same extent as the Indebtedness being renewed, extended, refinanced, refunded or repurchased, (ii) such Indebtedness is scheduled to mature no earlier than the Indebtedness being renewed, extended, refinanced, refunded or repurchased, and

(iii) such Indebtedness has an Average Life at the time such Indebtedness is incurred that is equal to or greater than the Average Life of the Indebtedness being renewed, extended, refinanced, refunded or repurchased; provided, further, that such Indebtedness (to the extent that such Indebtedness constitutes Permitted Subsidiary Refinancing Indebtedness) is in an aggregate principal amount (or, if such Indebtedness is issued at a price less than the principal amount thereof, the aggregate amount of gross proceeds therefrom is) not in excess of the aggregate principal amount then outstanding of the Indebtedness being renewed, extended, refinanced, refunded or repurchased (or if the Indebtedness being renewed, extended, refinanced, refunded or repurchased was issued at a price less than the principal amount thereof, then not in excess of the amount of liability in respect thereof determined in accordance with GAAP); provided, however, that a Restricted Subsidiary shall not incur refinancing Indebtedness to renew, extend, refinance, refund or repurchase outstanding Indebtedness of the Company or another Subsidiary.

"Person" means any individual, corporation, partnership, joint venture, trust, estate, unincorporated organization or government or any agency or political subdivision thereof.

"Preferred Shares" means the 624,037 shares of 7% Cumulative Convertible Preferred Stock of the Company having a par value of \$0.01 per share and a liquidation preference of \$50 per share issued by the Company pursuant to the Preferred Stock Offering, all of which shares were redeemed as of May 1, 2001.

"Preferred Stock," as applied to the Capital Stock of any corporation, means Capital Stock of any class or classes (however designated), which is preferred as to the payment of dividends, or upon any voluntary or involuntary liquidation or dissolution of such corporation, over shares of Capital Stock of any other class of such corporation.

"Preferred Stock Offering" means the private placement of Preferred Shares that closed on or about April 22, 1998.

"Production Payments" means, collectively, Dollar-Denominated Production Payments and Volumetric Production Payments.

"pro forma" means, with respect to any calculation made or required to be made pursuant to the terms of this

Indenture, a calculation in accordance with Article Eleven of Regulation S-X under the Securities Act.

"Proved Developed Properties" means working interests, royalty interests, and other interests in oil, gas or mineral leases or other interests in oil, gas or mineral properties to which reserves are attributed which may properly be categorized as proved developed reserves under Regulation S-X under the Securities Act; together with all contracts, agreements and contract rights which cover, affect or otherwise relate to such interests; all hydrocarbons and all payments of any type in lieu of production; all improvements, fixtures, equipment, information, data and other property used in connection therewith or in connection with the treating, handling, storing, processing, transporting or marketing of such hydrocarbons; all insurance policies relating thereto or to the operation thereof; all personal property related thereto; and all proceeds thereof.

"Qualified Stock" means any Capital Stock that is not Disqualified Stock.

"Reference Date" means March 31, 1998.

"Reference Period" means, with respect to any Person, the period of four consecutive fiscal quarters ending with the last full fiscal quarter for which financial information is available immediately preceding any date upon which any determination is to be made pursuant to the terms of the Securities or this Indenture.

"Restricted Payment" means, with respect to any Person, any of the following: (i) any dividend or other distribution in respect of such Person's Capital Stock (other than (a) dividends or distributions payable solely in Capital Stock (other than Disqualified Stock) (b) in the case of Restricted Subsidiaries of the Company, dividends or distributions payable to the Company or to a Restricted Subsidiary of the Company and (c) in the case of the Company, cash dividends payable on the Preferred Shares); (ii) the purchase, redemption or other acquisition or retirement for value of any Capital Stock, or any option, warrant, or other right to acquire shares of Capital Stock, of the Company or any of its Restricted Subsidiaries; (iii) the making of any principal payment on, or the purchase, defeasance, repurchase, redemption or other acquisition or retirement for value, prior to any scheduled maturity, scheduled repayment or scheduled sinking fund payment, of any Indebtedness which is subordinated in right of payment to the Securities; and

(iv) the making by such Person of any Investment other than a Permitted Investment.

"Restricted Security" has the meaning provided in Rule 144(a)(3) under the Securities Act.

"Restricted Subsidiary" means any Subsidiary of the Company other than an Unrestricted Subsidiary. The Board of Directors may designate any Unrestricted Subsidiary to be a Restricted Subsidiary; provided, however, that, immediately after giving effect to such designation of any Unrestricted Subsidiary, the Company could incur at least \$1.00 in additional Indebtedness pursuant to Section 4.09(a). As of the Issue Date, all of the Company's Subsidiaries other than Carmen Acquisition Corp. and Chesapeake Energy Marketing, Inc. (which shall constitute Unrestricted Subsidiaries as of the Issue Date) shall be Restricted Subsidiaries.

"Sale/Leaseback Transaction" means with respect to the Company or any of its Restricted Subsidiaries, any arrangement with any Person providing for the leasing by the Company or any of its Restricted Subsidiaries of any principal property, acquired or placed into service more than 180 days prior to such arrangement, whereby such property has been or is to be sold or transferred by the Company or any of its Restricted Subsidiaries to such Person.

"SEC" means the Securities and Exchange Commission.

"Securities Act" means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

"Senior Indebtedness" means any Indebtedness of the Company (whether outstanding on the Issue Date or thereafter incurred), unless such Indebtedness is contractually subordinate or junior in right of payment of principal, premium and interest to the Securities.

"Senior Indebtedness of a Subsidiary Guarantor" means any Indebtedness of such Subsidiary Guarantor (whether outstanding on the Issue Date or thereafter incurred), unless such Indebtedness is contractually subordinate or junior in right of payment of principal, premium and interest to the Guarantees.

"Subordinated Indebtedness of a Subsidiary Guarantor" means any Indebtedness of such Subsidiary Guarantor (whether outstanding on the Issue Date or thereafter incurred) which is contractually subordinate or

junior in right of payment of principal, premium and interest to the Guarantees.

"Subordinated Indebtedness of the Company" means any Indebtedness of the Company (whether outstanding on the Issue Date or thereafter incurred) which is contractually subordinate or junior in right of payment of principal, premium and interest to the Securities.

"Subsidiary" means any subsidiary of the Company. A "subsidiary" of any Person means (i) a corporation a majority of whose Voting Stock is at the time, directly or indirectly, owned by such Person, by one or more subsidiaries of such Person or by such Person and one or more subsidiaries of such Person, (ii) a partnership in which such Person or a subsidiary of such Person is, at the date of determination, a general or limited partner of such partnership, but only if such Person or its subsidiary is entitled to receive more than 50 percent of the assets of such partnership upon its dissolution, or (iii) any other Person (other than a corporation or partnership) in which such Person, directly or indirectly, at the date of determination thereof, has (x) at least a majority ownership interest or (y) the power to elect or direct the election of a majority of the directors or other governing body of such Person.

"Subsidiary Guarantor" means (i) each of the Subsidiaries that becomes a guarantor of the Securities in compliance with the provisions of Article Ten of this Indenture and (ii) each of the Subsidiaries executing a supplemental indenture in which such Subsidiary agrees to be bound by the terms of this Indenture.

"TIA" means the Trust Indenture Act of 1939 (15 U.S. Code Sections 77aaa-77bbb) as in effect on the date of this Indenture, except as provided in Section 9.03.

"Trust Officer" means any officer or assistant officer within the corporate trust department of the Trustee assigned by the Trustee to administer its corporate trust matters.

"Trustee" means the party named as such above until a successor replaces it in accordance with the applicable provisions of this Indenture and thereafter means the successor.

"Unrestricted Subsidiary" means (a) Chesapeake Energy Marketing, Inc. until such time as any such Subsidiary shall be designated as a Restricted Subsidiary, (b) any Subsidiary of an Unrestricted Subsidiary and (c) any

Subsidiary of the Company or of a Restricted Subsidiary that is designated as an Unrestricted Subsidiary by a resolution adopted by the Board of Directors in accordance with the requirements of the following sentence. The Company may designate any Subsidiary of the Company or of a Restricted Subsidiary (including a newly acquired or newly formed Subsidiary or any Restricted Subsidiary of the Company), to be an Unrestricted Subsidiary by a resolution of the Board of Directors of the Company, as evidenced by written notice thereof delivered to the Trustee, if immediately after giving effect to such designation, (i) the Company could incur \$1.00 of additional Indebtedness pursuant to Section 4.09(a), (ii) the Company could make an additional Restricted Payment of \$1.00 pursuant to Section 4.10(a), (iii) such Subsidiary does not own or hold any Capital Stock of, or any lien on any property of, the Company or any Restricted Subsidiary and (iv) such Subsidiary is not liable, directly or indirectly, with respect to any Indebtedness other than Unrestricted Subsidiary Indebtedness.

"Unrestricted Subsidiary Indebtedness" of any Person means Indebtedness of such Person (a) as to which neither the Company nor any Restricted Subsidiary is directly or indirectly liable (by virtue of the Company's or such Restricted Subsidiary's being the primary obligor, or guarantor of, or otherwise liable in any respect on, such Indebtedness), (b) which, with respect to Indebtedness incurred after the Issue Date by the Company or any Restricted Subsidiary, upon the occurrence of a default with respect thereto, does not result in, or permit any holder of any Indebtedness of the Company or any Restricted Subsidiary to declare a default on such Indebtedness of the Company or any Restricted Subsidiary and (c) which is not secured by any assets of the Company or of any Restricted Subsidiary.

"U.S. Government Securities" means securities that are (i) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (ii) obligations of a Person controlled or supervised by and acting as an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, which, in either case under clauses (i) or (ii) are not callable or redeemable at the option of the issuer thereof.

"U.S. Legal Tender" means such coin or currency of the United States as at the time of payment shall be legal tender for the payment of public and private debts.

"Volumetric Production Payments" mean production payment obligations recorded as deferred revenue in accordance with GAAP, together with all undertakings and obligations in connection therewith.

"Voting Stock" means, with respect to any Person, securities of any class or classes of Capital Stock in such Person entitling the holders thereof (whether at all times or only so long as no senior class of stock has voting power by reason of contingency) to vote in the election of members of the Board of Directors or other governing body of such Person.

SECTION 1.02. Other Definitions.

Other terms used in this Indenture are defined in the Appendix or in the Section indicated below:

Term	Defined in Section
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"Affiliate Transaction".....	4.15
"Appendix".....	2.01
"Bankruptcy Law".....	6.01
"Change of Control Offer".....	4.16
"Change of Control Notice".....	4.16
"Change of Control Payment Date".....	4.16
"Covenant Defeasance".....	8.03
"Custodian".....	6.01
"Event of Default".....	6.01
"Excess Proceeds".....	4.11
"Funding Guarantor".....	10.06
"incur".....	4.09
"Legal Defeasance".....	8.02
"Legal Holiday".....	11.07
"Net Proceeds Offer".....	4.11
"Net Proceeds Offer Amount".....	4.11
"Net Proceeds Payment Date".....	4.11
"Paying Agent".....	2.03
"Payment Default".....	6.01
"Payment Restriction".....	4.14
"Permitted Consideration".....	4.11
"Registrar".....	2.03

SECTION 1.03. Incorporation by Reference of Trust Indenture Act. Whenever this Indenture refers to a provision of the TIA, the provision is incorporated by reference in and made a part of this Indenture. The following TIA terms, if used in this Indenture, have the following meanings:

"Commission" means the SEC.

"indenture securities" means the Securities and the Guarantees.

"indenture security holder" means a Holder.

"indenture to be qualified" means this Indenture.

"indenture trustee" or "institutional trustee" means the Trustee.

"obligor" on the indenture securities means the Company, the Subsidiary Guarantors and any other obligor on the Securities or the Guarantees.

All other TIA terms used in this Indenture that are defined by the TIA, defined by TIA reference to another statute or defined by SEC rule have the meanings assigned to them therein.

SECTION 1.04. Rules of Construction.

Unless the context otherwise requires:

- (1) a term has the meaning assigned to it;
- (2) an accounting term not otherwise defined has the meaning assigned to it in accordance with GAAP;
- (3) "or" is not exclusive;
- (4) words in the singular include the plural, and words in the plural include the singular;
- (5) any gender used in this Indenture shall be deemed to include the neuter, masculine or feminine genders;
- (6) provisions apply to successive events and transactions; and
- (7) "herein," "hereof" and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other Subdivision.

ARTICLE TWO

THE SECURITIES

SECTION 2.01. Form and Dating. Provisions relating to the Initial Securities, the Private Exchange Securities and

the Exchange Securities are set forth in the Rule 144A/Regulation S Appendix attached hereto (the "Appendix") which is hereby incorporated in and expressly made part of this Indenture. The Initial Securities and the Trustee's certificate of authentication shall be substantially in the form of Exhibit 1 to the Appendix which is hereby incorporated in and expressly made a part of this Indenture. The Exchange Securities, the Private Exchange Securities and the Trustee's certificate of authentication shall be substantially in the form of Exhibit A, which is hereby incorporated in and expressly made a part of this Indenture. The Securities may have notations, legends or endorsements required by law, stock exchange rule, agreements to which the Company is subject, if any, or usage (provided that any such notation, legend or endorsement is in a form acceptable to the Company and to the Trustee). Each Security shall be dated the date of its authentication. The terms of the Securities set forth in the Appendix and Exhibit A are part of the terms of this Indenture.

SECTION 2.02. Execution and Authentication. Two Officers shall sign the Securities for the Company by manual or facsimile signature.

If an Officer whose signature is on a Security no longer holds that office at the time the Trustee authenticates the Security, the Security shall be valid nevertheless.

A Security shall not be valid until an authorized signatory of the Trustee manually signs the certificate of authentication on the Security. The signature shall be conclusive evidence that the Security has been authenticated under this Indenture.

On the Issue Date, the Trustee shall authenticate and deliver \$300 million of Initial Securities and, at any time and from time to time thereafter, the Trustee shall authenticate and deliver Securities for original issue in an aggregate principal amount specified in such order, in each case upon a written order of the Company signed by two Officers or by an Officer and either an Assistant Treasurer or an Assistant Secretary of the Company. Such order shall specify the amount of the Securities to be authenticated and the date on which the original issue of Securities is to be authenticated and, in the case of an issuance of Additional Securities pursuant to Section 2.13 after the Issue Date, shall certify that such issuance is in compliance with Section 4.09.

The Trustee may appoint an authenticating agent reasonably acceptable to the Company to authenticate the Securities. Unless limited by the terms of such appointment, an authenticating agent may authenticate Securities whenever the Trustee may do so. Each reference in this Indenture to authentication by the Trustee includes authentication by such agent. An authenticating agent has the same rights with respect to the Company as any Registrar, Paying Agent or agent for service of notices and demands.

SECTION 2.03. Registrar and Paying Agent. The Company shall maintain an office or agency where Securities may be presented for registration of transfer or for exchange (the "Registrar") and an office or agency where Securities may be presented for payment (the "Paying Agent"). The Registrar shall keep a register of the Securities and of their transfer and exchange. The Company may have one or more co-registrars and one or more additional paying agents. The term "Paying Agent" includes any additional paying agent.

The Company shall enter into an appropriate agency agreement with any Registrar, Paying Agent or co-registrar not a party to this Indenture, which shall incorporate the terms of the TIA. The agreement shall implement the provisions of this Indenture that relate to such agent. The Company shall notify the Trustee of the name and address of any such agent and shall furnish the Trustee with an executed counterpart of any such agency agreement. If the Company fails to maintain a Registrar or Paying Agent, the Trustee shall act as such and shall be entitled to appropriate compensation therefor pursuant to Section 7.07. The Company or any Wholly Owned Subsidiary incorporated or organized within The United States of America may act as Paying Agent, Registrar, co-registrar or transfer agent.

The Company initially appoints the Trustee as Registrar and Paying Agent in connection with the Securities.

SECTION 2.04. Paying Agent To Hold Money in Trust. Prior to 11:00 a.m., New York time, each due date of the principal and interest on any Security, the Company shall deposit with the Paying Agent a sum sufficient to pay such principal and interest when so becoming due. The Company shall require each Paying Agent (other than the Trustee) to agree in writing that the Paying Agent shall hold in trust for the benefit of Holders or the Trustee all money held by the Paying Agent for the payment of principal of or interest on the Securities and shall notify the Trustee of any default by the Company in making any such payment. If the Company or a Subsidiary acts as Paying Agent, it shall segregate the

money held by it as Paying Agent and hold it as a separate trust fund. The Company at any time may require a Paying Agent to pay all money held by it to the Trustee and to account for any funds disbursed by the Paying Agent. Upon complying with this Section, the Paying Agent shall have no further liability for the money delivered to the Trustee.

SECTION 2.05. Holder Lists. The Trustee shall preserve in as current a form as is reasonably practicable the most recent list available to it of the names and addresses of Holders. If the Trustee is not the Registrar, the Company shall furnish to the Trustee, in writing at least five Business Days before each interest payment date and at such other times as the Trustee may request in writing, a list in such form and as of such date as the Trustee may reasonably require of the names and addresses of Holders.

SECTION 2.06. Transfer and Exchange. The Securities shall be issued in registered form and shall be transferable only upon the surrender of a Security for registration of transfer. When a Security is presented to the Registrar or a co-registrar with a request to register a transfer, the Registrar shall register the transfer as requested if the requirements of this Indenture and Section 8-401(a) of the Uniform Commercial Code are met. When Securities are presented to the Registrar or a co-registrar with a request to exchange them for an equal principal amount of Securities of other denominations, the Registrar shall make the exchange as requested if the same requirements are met.

SECTION 2.07. Replacement Securities. If a mutilated Security is surrendered to the Registrar or if the Holder of a Security claims that the Security has been lost, destroyed or wrongfully taken, the Company shall issue and the Trustee shall authenticate a replacement Security if the requirements of Section 8-405 of the Uniform Commercial Code are met and the Holder satisfies any other reasonable requirements of the Trustee. If required by the Trustee or the Company, such Holder shall furnish an indemnity bond sufficient in the judgment of the Company and the Trustee to protect the Company, the Trustee, the Paying Agent, the Registrar and any co-registrar from any loss which any of them may suffer if a Security is replaced. The Company and the Trustee may charge the Holder for their expenses in replacing a Security.

Every replacement Security is an additional obligation of the Company.

SECTION 2.08. Outstanding Securities. Securities outstanding at any time are all Securities authenticated by

the Trustee except for those canceled by it, those delivered to it for cancellation and those described in this Section as not outstanding. A Security does not cease to be outstanding because the Company or an Affiliate of the Company holds the Security.

If a Security is replaced pursuant to Section 2.07, it ceases to be outstanding unless the Trustee and the Company receive proof satisfactory to them that the replaced Security is held by a bona fide purchaser.

If the Paying Agent segregates and holds in trust, in accordance with this Indenture, on a redemption date or maturity date money sufficient to pay all principal and interest payable on that date with respect to the Securities (or portions thereof) to be redeemed or maturing, as the case may be, then on and after that date such Securities (or portions thereof) cease to be outstanding and interest on them ceases to accrue.

SECTION 2.09. Temporary Securities. Until definitive Securities are ready for delivery, the Company may prepare and the Trustee shall authenticate temporary Securities. Temporary Securities shall be substantially in the form of definitive Securities but may have variations that the Company considers appropriate for temporary Securities. Without unreasonable delay, the Company shall prepare and the Trustee shall authenticate definitive Securities and deliver them in exchange for temporary Securities.

SECTION 2.10. Cancellation. The Company at any time may deliver Securities to the Trustee for cancellation. The Registrar and the Paying Agent shall forward to the Trustee any Securities surrendered to them for registration of transfer, exchange or payment. The Trustee and no one else shall cancel and destroy (subject to the record retention requirements of the Exchange Act) all Securities surrendered for registration of transfer, exchange, payment or cancellation and deliver a certificate of such destruction to the Company unless the Company directs the Trustee to deliver canceled Securities to the Company. The Company may not issue new Securities to replace Securities it has redeemed, paid or delivered to the Trustee for cancellation.

SECTION 2.11. Defaulted Interest. If the Company defaults in a payment of interest on the Securities, the Company shall pay defaulted interest (plus interest on such defaulted interest to the extent lawful) in any lawful manner. The Company may pay the defaulted interest to the persons who are Holders on a subsequent special record date.

The Company shall fix or cause to be fixed any such special record date and payment date to the reasonable satisfaction of the Trustee and shall promptly mail to each Holder a notice that states the special record date, the payment date and the amount of defaulted interest to be paid.

SECTION 2.12. CUSIP Numbers. The Company in issuing the Securities may use "CUSIP" numbers (if then generally in use) and, if so, the Trustee shall use "CUSIP" numbers in notices of redemption as a convenience to Holders; provided, however, that any such notice may state that no representation is made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Securities, and any such redemption shall not be affected by any defect in or omission of such numbers.

SECTION 2.13. Issuance of Additional Securities. The Company shall be entitled, subject to its compliance with Section 4.09(a), to issue Additional Securities under this Indenture which shall have identical terms as the Initial Securities issued on the Issue Date, other than with respect to the date of issuance and issue price. The Initial Securities issued on the Issue Date, any Additional Securities and all Exchange Securities or Private Exchange Securities issued in exchange therefor shall be treated as a single class for all purposes under this Indenture.

With respect to any Additional Securities, the Company shall set forth in a resolution of the Board of Directors and an Officers' Certificate, a copy of each which shall be delivered to the Trustee, the following information:

(1) the aggregate principal amount of such Additional Securities to be authenticated and delivered pursuant to this Indenture;

(2) the issue price, the issue date and the CUSIP number of such Additional Securities; provided, however, that no Additional Securities may be issued at a price that would cause such Additional Securities to have "original issue discount" within the meaning of Section 1273 of the Code; and

(3) whether such Additional Securities shall be Transfer Restricted Securities and issued in the form of Initial Securities as set forth in the Appendix to this Indenture or shall be issued in the form of Exchange Securities as set forth in Exhibit A.

Additional Securities may be issued with the same CUSIP number as the Securities issued on the Issue Date if, and only if, the Company shall have provided the Trustee with an opinion of nationally recognized counsel, reasonably satisfactory to the Trustee, to the effect that such Additional Securities will be fungible with the Securities issued on the Issue Date for all United States federal income tax purposes.

ARTICLE THREE

REDEMPTION

SECTION 3.01. Notice to Trustee. If the Company elects to redeem Securities pursuant to the optional redemption provisions of Paragraphs 5, 6 or 7 of the Securities, it shall furnish to the Trustee and the Registrar, at least 45 days but not more than 60 days before the redemption date (unless the Trustee consents to a shorter period in writing), an Officers' Certificate setting forth the redemption date, the principal amount of Securities to be redeemed and the redemption price, including the detail of the calculation of the Make-Whole Price, if applicable.

SECTION 3.02. Selection of Securities to Be Redeemed. If less than all of the Securities are to be redeemed at any time, the Trustee shall select the Securities to be redeemed pro rata, by lot or, if the Securities are listed on any securities exchange, by any other method that the Trustee considers fair and appropriate and that complies with the requirements of such exchange; provided, however, that no Securities with a principal amount of \$1,000 or less will be redeemed in part. The Trustee shall make the selection from outstanding Securities not previously called for redemption not less than 30 nor more than 60 days prior to the redemption date. Securities and portions of them it selects shall be in amounts of \$1,000 or whole multiples of \$1,000. Provisions of this Indenture that apply to Securities called for redemption also apply to portions of Securities called for redemption. The Trustee shall notify the Company promptly of the Securities or portions of Securities selected for redemption.

SECTION 3.03. Notice of Redemption. (a) At least 30 days but not more than 60 days before a redemption date, the Company shall mail a notice of redemption by first-class mail to each Holder of Securities to be redeemed at such Holder's registered address.

The notice shall identify the Securities to be redeemed and shall state:

- (1) the redemption date;
- (2) the redemption price;
- (3) the aggregate principal amount of Securities being redeemed;
- (4) the name and address of the Paying Agent;
- (5) that Securities called for redemption must be surrendered to the Paying Agent at the address specified in such notice to collect the redemption price;
- (6) that, unless the Company defaults in the payment of the redemption price or accrued interest, interest on Securities called for redemption ceases to accrue on and after the redemption date and the only remaining right of the Holders is to receive payment of the redemption prices in respect of the Securities upon surrender to the Paying Agent of the Securities;
- (7) if any Security is being redeemed in part, the portion of the principal amount of such Security to be redeemed and that, after the redemption date, upon surrender of such Security, a new Security or Securities in principal amount equal to the unredeemed portion will be issued in the name of the Holder thereof upon cancellation of the Security or Securities being redeemed;
- (8) the paragraph of the Securities pursuant to which the Securities called for redemption are being redeemed; and
- (9) the CUSIP number of the Securities.

(b) At the Company's request, the Trustee shall give the notice of redemption required in Section 3.03(a) in the Company's name and at the Company's expense; provided, however, that the Company shall deliver to the Trustee, at least 45 days prior to the redemption date (unless the Trustee consents to a shorter notice period in writing), an Officers' Certificate requesting that the Trustee give such notice and setting forth the information to be stated in such notice as provided in Section 3.03(a).

SECTION 3.04. Effect of Notice of Redemption. Once notice of redemption is mailed in accordance with Section 3.03, Securities called for redemption become due and payable on the redemption date at the redemption price. Upon surrender to the Paying Agent, such Securities shall be paid at the redemption price, plus accrued and unpaid interest to the redemption date (subject to the right of Holders of record on the relevant record date to receive interest due on the related interest payment date). Failure to give notice or any defect in the notice to any Holder shall not affect the validity of the notice to any other Holder.

SECTION 3.05. Deposit of Redemption Price. Prior to 11:00 a.m., New York time, the redemption date, the Company shall deposit with the Paying Agent (or if the Company or a Subsidiary is the Paying Agent, shall segregate and hold in trust) funds available on the redemption date sufficient to pay the redemption price of, and accrued and unpaid interest on, the Securities to be redeemed on that date. The Paying Agent shall promptly return to the Company any money so deposited which is not required for that purpose upon the written request of the Company, except with respect to monies owed as obligations to the Trustee pursuant to Article Seven.

If any Security called for redemption shall not be so paid upon redemption because of the failure of the Company to comply with the preceding paragraph, interest will continue to be payable on the unpaid principal and premium, if any, including from the redemption date until such principal and premium, if any, is paid, and, to the extent lawful, on any interest not paid on such unpaid principal, in each case at the rate provided in the Securities and in Section 4.01 hereof.

SECTION 3.06. Securities Redeemed in Part. Upon surrender of a Security that is to be redeemed in part, the Company shall issue and the Trustee shall authenticate for the Holder, at the expense of the Company, a new Security equal in aggregate amount to the unredeemed portion of the Security surrendered.

SECTION 3.07. Optional Redemption. Except as set forth in Sections 3.08 and 3.09 hereof, the Company shall not have the option to redeem the Securities prior to September 15, 2008. The Securities may be redeemed at the option of the Company, in whole or from time to time in part, at any time on or after September 15, 2008, at the redemption prices set forth below (expressed as a percentage of the principal amount of the Securities to be redeemed), together with accrued and unpaid interest on the Securities so redeemed to

the redemption date, if redeemed during the 12-month period commencing on September 15 of the years indicated below:

Year - - - -	Redemption Price -----
2008	103.750%
2009	102.500%
2010	101.250%
2011 and thereafter	100.000%

Any redemption pursuant to this Section 3.07 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 hereof.

SECTION 3.08. Equity Offering Redemption. In the event the Company consummates one or more Equity Offerings on or prior to September 15, 2006, the Company may redeem, in its sole discretion, up to 35% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) with all or a portion of the aggregate net proceeds received by the Company from any such Equity Offering or Equity Offerings at a redemption price of 107.500% of the aggregate principal amount of the Securities so redeemed, plus accrued and unpaid interest on the Securities so redeemed to the redemption date; provided, however, that (i) the date of any such redemption occurs within the 90-day period after the Equity Offering in respect of which such redemption is made and (ii) following each such redemption, at least 65% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) remains outstanding.

Any redemption pursuant to this Section 3.08 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 hereof.

SECTION 3.09. Optional Redemption at Make-Whole Price. At any time prior to September 15, 2008 the Company may, at its option, redeem all or any portion of the Securities at the Make-Whole Price plus accrued and unpaid interest on the Securities so redeemed to the date of redemption.

Any redemption pursuant to this Section 3.09 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 hereof.

ARTICLE FOUR

COVENANTS

SECTION 4.01. Payment of Securities. The Company shall pay the principal of, premium, if any, and interest on, the Securities on the dates and in the manner provided in the Securities and this Indenture. Principal, premium and interest shall be considered paid on the date due if the Trustee or Paying Agent holds on that date money deposited by the Company designated for and sufficient to pay all principal, premium and interest then due. All references to interest in this Indenture shall for all purposes be deemed to include any additional interest payable as liquidated damages pursuant to the Registration Rights Agreement.

The Company shall pay interest (including post-petition interest in any proceeding under any Bankruptcy Law) on overdue principal, and premium, if any, at the rate borne by the Securities to the extent lawful; and it shall pay interest (including post-petition interest in any proceeding under any Bankruptcy Law) on overdue installments of interest (without regard to any applicable grace period) at the same rate to the extent lawful.

SECTION 4.02. SEC Reports. (a) The Company, within 15 days after it files the same with the SEC, shall deliver to Holders, copies of the annual reports and the information, documents and other reports (or copies of any such portions of any of the foregoing as the SEC may by rules and regulations prescribe) that the Company is required to file with the SEC pursuant to Section 13 or 15(d) of the Exchange Act. Notwithstanding that the Company may not be required to remain subject to the reporting requirements of Section 13 or 15(d) of the Exchange Act, the Company shall file with the SEC and provide Holders with such annual reports and such information, documents and other reports specified in Sections 13 and 15(d) of the Exchange Act. The Company and each Subsidiary Guarantor shall also comply with the provisions of TIA Section 314(a).

(b) The Company may request the Trustee on behalf of the Company at the Company's expense to mail the foregoing to Holders. In such case, the Company shall provide the Trustee with a sufficient number of copies of all reports and other documents and information that the Trustee may be required to deliver to Holders under this Section.

SECTION 4.03. Compliance Certificates. (a) The Company shall deliver to the Trustee, within 90 days after the end of each fiscal year of the Company, an Officers' Certificate substantially in the form of Exhibit J hereto, stating that a review of the activities of the Company and the Subsidiaries during the preceding fiscal year has been

made under the supervision of the signing Officers with a view to determining whether the Company has kept, observed, performed and fulfilled its obligations under this Indenture, and further stating, as to each such Officer signing such certificate, that, to the best of such Officer's knowledge, the Company and each Subsidiary Guarantor has kept, observed, performed and fulfilled each and every covenant contained in this Indenture and is not in default in the performance or observance of any of the terms, provisions and conditions hereof (or, if a Default or Event of Default shall have occurred, describing all such Defaults or Events of Default of which such Officer may have knowledge and what action the Company is taking or proposes to take with respect thereto) and that to the best of such Officer's knowledge, after reasonable inquiry, no event has occurred and remains in existence by reason of which payments on account of the principal of, premium, if any, or interest, if any, on the Securities are prohibited or, if such event has occurred, a description of the event and what action the Company and the Subsidiary Guarantors are taking or propose to take with respect thereto. Such Officers' Certificate shall comply with TIA Section 314(a)(4). The Company hereby represents that, as of the Issue Date, its fiscal year ends December 31, and hereby covenants that it shall notify the Trustee at least 30 days in advance of any change in its fiscal year.

(b) So long as not contrary to the then current recommendations of the American Institute of Certified Public Accountants, the year-end financial statements delivered pursuant to Section 4.02 shall be accompanied by a written statement of the Company's independent public accountants (which shall be a firm of established national reputation) that in making the examination necessary for certification of such financial statements nothing has come to their attention that would lead them to believe that the Company has violated any provisions of Sections 4.07, 4.09, 4.10, 4.11 or 4.15 of this Indenture (to the extent such provisions relate to accounting matters) or, if any such violation has occurred, specifying the nature and period of existence thereof. Where such financial statements are not accompanied by such a written statement, the Company shall furnish the Trustee with an Officers' Certificate stating that any such written statement would be contrary to the then current recommendations of the American Institute of Certified Public Accountants.

(c) The Company and the Subsidiary Guarantors will, so long as any of the Securities are outstanding, deliver to the Trustee forthwith upon any Officer becoming aware of any Default or Event of Default or default in the

performance of any covenant, agreement or condition contained in this Indenture, an Officers' Certificate specifying such Default or Event of Default and what action the Company or any Subsidiary Guarantor proposes to take with respect thereto.

SECTION 4.04. Maintenance of Office or Agency. The Company will maintain in the Borough of Manhattan, The City of New York, an office or agency where Securities may be surrendered for registration of transfer or exchange or for presentation for payment and where notices and demands to or upon the Company in respect of the Securities and this Indenture may be served. The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the address of the Trustee set forth in Section 11.02. If at any time the Company shall fail to maintain any required office or agency or shall fail to furnish the Trustee with the address thereof, such surrenders, presentations, notices and demands may be made or served at the corporate trust office of the Trustee.

Subject to Section 2.03, the Company may also from time to time designate one or more other offices or agencies where the Securities may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; provided, that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in the Borough of Manhattan, The City of New York, for such purposes. The Company will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency.

SECTION 4.05. Corporate Existence. The Company will do or cause to be done all things necessary to preserve and keep in full force and effect its corporate existence and the corporate, partnership or other existence of each Subsidiary and all rights (charter and statutory) and franchises of the Company and the Subsidiaries; provided, that the Company shall not be required to preserve the corporate existence of any Subsidiary, or any such right or franchise, if the Company shall determine that the preservation thereof is no longer desirable in the conduct of the business of the Company and that the loss thereof is not disadvantageous in any material respect to the Holders.

SECTION 4.06. Waiver of Stay, Extension or Usury Laws. The Company and each Subsidiary Guarantor covenants (to the extent that each may lawfully do so) that it will not at any time insist upon, plead, or in any manner whatsoever claim or take the benefit or advantage of, any stay, extension, or usury law or other law, which would prohibit or forgive the Company or any Subsidiary Guarantor from paying all or any portion of the principal of, premium, if any, or interest on the Securities as contemplated herein, wherever enacted, now or at any time hereafter in force, or which may affect the covenants or the performance of this Indenture; and (to the extent that it may lawfully do so) each of the Company and the Subsidiary Guarantors hereby expressly waives all benefit or advantage of any such law, and covenants that it will not hinder, delay or impede the execution of any power herein granted to the Trustee, but will suffer and permit the execution of every such power as though no such law had been enacted.

SECTION 4.07. Payment of Taxes and Other Claims. The Company shall pay or discharge or cause to be paid or discharged, before the same shall become delinquent, (a) all taxes, assessments and governmental charges levied or imposed upon the Company or any Subsidiary or upon the income, profits or property of the Company or any Subsidiary and (b) all lawful claims for labor, materials and supplies which, if unpaid, might by law become a Lien upon the property of the Company or any Subsidiary; provided, however, that the Company shall not be required to pay or discharge or cause to be paid or discharged any such tax, assessment, charge or claim whose amount, applicability or validity is being contested in good faith by appropriate proceedings.

SECTION 4.08. Maintenance of Properties and Insurance. (a) The Company shall cause all properties used or held for use in the conduct of its business or the business of any Subsidiary to be maintained and kept in good condition, repair and working order (ordinary wear and tear excepted) and supplied with all necessary equipment and shall cause to be made all necessary repairs, renewals, replacements, betterments and improvements thereof, all as in the judgment of the Company may be necessary so that the business carried on in connection therewith may be properly and advantageously conducted at all times; provided, however, that nothing in this Section shall prevent the Company from discontinuing the operation or maintenance of any such property, or disposing of it, if such discontinuance or disposal is, in the judgment of the Company, desirable in the conduct of its business and not disadvantageous in any material respect to the Holders.

(b) The Company shall provide or cause to be provided, for itself and each of its Subsidiaries, insurance (including appropriate self-insurance) against loss or damage of the kinds that, in the reasonable, good faith opinion of the Company, are adequate and appropriate for the conduct of the business of the Company and such Subsidiaries in a prudent manner, with reputable insurers or with the government of the United States or an agency or instrumentality thereof, in such amounts, with such deductibles, and by such methods as shall be customary, in the reasonable, good faith opinion of the Company, for corporations similarly situated in the industry.

SECTION 4.09. Limitation on Incurrence of Additional Indebtedness.

(a) The Company will not, and will not permit any of its Restricted Subsidiaries, directly or indirectly, to issue, incur, assume, guarantee, become liable, contingently or otherwise, with respect to or otherwise become responsible for the payment of (collectively, "incur") any Indebtedness; provided, however, that if no Default or Event of Default shall have occurred and be continuing at the time or as a consequence of the incurrence of such Indebtedness, the Company or its Restricted Subsidiaries may incur Indebtedness if, on a pro forma basis, after giving effect to such incurrence and the application of the proceeds therefrom, either of the following tests shall have been satisfied: (i) the Adjusted Consolidated EBITDA Coverage Ratio would have been at least 2.25 to 1.0; or (ii) Adjusted Consolidated Net Tangible Assets would have been greater than 200% of Indebtedness of the Company and its Restricted Subsidiaries.

(b) Notwithstanding the foregoing, if no Default or Event of Default shall have occurred and be continuing at the time or as a consequence of the incurrence of such Indebtedness, the Company and its Restricted Subsidiaries may incur Permitted Indebtedness. For purposes of determining compliance with this Section 4.09:

(i) in the event that an item of proposed Indebtedness meets the criteria of more than one of the categories of Permitted Indebtedness as of the date of incurrence thereof or is entitled to be incurred pursuant to Section 4.09(a) as of the date of incurrence thereof, the Company shall, in its sole discretion, classify (or later classify in whole or in part, in its sole discretion) such item of Indebtedness in any manner that complies with this Section 4.09, and

(ii) for purposes of determining compliance with any dollar-denominated restriction on the incurrence of Indebtedness denominated in a foreign currency, the dollar-equivalent principal amount of such Indebtedness incurred pursuant thereto shall be calculated based on the relevant currency.

Accrual of interest or dividends, the accretion of accreted value or liquidation preference and the payment of interest or dividends in the form of additional Indebtedness will not be deemed to be an incurrence of Indebtedness for purposes of this Section 4.09.

(c) Any Indebtedness of a Person existing at the time such Person becomes a Restricted Subsidiary (whether by merger, consolidation, acquisition or otherwise) shall be deemed to be incurred by such Restricted Subsidiary at the time it becomes a Restricted Subsidiary.

SECTION 4.10. Limitation on Restricted Payments. (a) The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, make any Restricted Payment, unless:

(i) no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to such Restricted Payment;

(ii) at the time of and immediately after giving effect to such Restricted Payment, the Company would be able to incur at least \$1.00 of additional Indebtedness (other than Permitted Indebtedness) pursuant to Section 4.09(a); and

(iii) immediately after giving effect to such Restricted Payment, the aggregate of all Restricted Payments declared or made after the Reference Date does not exceed the sum of (A) 50% of the Consolidated Net Income of the Company and its Restricted Subsidiaries (or in the event such Consolidated Net Income shall be a deficit, minus 100% of such deficit) during the period (treated as one accounting period) subsequent to the Reference Date and ending on the last day of the fiscal quarter immediately preceding the date of such Restricted Payment; (B) the aggregate Net Cash Proceeds, and the fair market value of property other than cash (as determined in good faith by the Company's Board of Directors and evidenced by a

resolution of such Board), received by the Company during such period from any Person other than a Subsidiary of the Company as a result of the issuance or sale of Capital Stock of the Company (other than any Disqualified Stock and other than Preferred Shares issued in the Preferred Stock Offering), other than in connection with the conversion of Indebtedness or Disqualified Stock; (C) the aggregate Net Cash Proceeds, and the fair market value of property other than cash (as determined in good faith by the Company's Board of Directors and evidenced by a resolution of such Board), received by the Company during such period from any Person other than a Subsidiary of the Company as a result of the issuance or sale of any Indebtedness or Disqualified Stock to the extent that at the time the determination is made such Indebtedness or Disqualified Stock, as the case may be, has been converted into or exchanged for Capital Stock of the Company (other than Disqualified Stock); and (D)(i) in case any Unrestricted Subsidiary has been redesignated a Restricted Subsidiary, an amount equal to the lesser of (x) the book value (determined in accordance with GAAP) at the date of such redesignation of the aggregate Investments made by the Company and its Restricted Subsidiaries in such Unrestricted Subsidiary and (y) the fair market value of such Investments in such Unrestricted Subsidiary at the time of such redesignation, as determined in good faith by the Company's Board of Directors, including a majority of the Company's Disinterested Directors, whose determination shall be conclusive and evidenced by a resolution of such Board; or (ii) in case any Restricted Subsidiary has been redesignated an Unrestricted Subsidiary, minus the greater of (x) the book value (determined in accordance with GAAP) at the date of redesignation of the aggregate Investments made by the Company and its Restricted Subsidiaries in such Restricted Subsidiary and (y) the fair market value of such Investments in such Restricted Subsidiary at the time of such redesignation, as determined in good faith by the Company's Board of Directors, including a majority of the Company's Disinterested Directors, whose determination shall be conclusive and evidenced by a resolution of such Board.

(b) Notwithstanding the foregoing, the above limitations will not prevent (i) the payment of any dividend

within 60 days after the date of declaration thereof, if at such date of declaration such payment complied with the provisions hereof; (ii) the purchase, redemption, acquisition or retirement of any shares of Capital Stock of the Company in exchange for, or out of the net proceeds of the substantially concurrent sale (other than to a Restricted Subsidiary of the Company) of, other shares of Capital Stock (other than Disqualified Stock) of the Company; (iii) any dividend or other distribution payable from a Restricted Subsidiary to the Company or any other Restricted Subsidiary; (iv) regularly quarterly dividends on the 6.75% Cumulative Convertible Preferred Stock or the 6.00% Cumulative Convertible Preferred Stock of the Company outstanding on the Issue Date, provided that no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to any such Restricted Payment; and (v) other Restricted Payments not in excess of \$25,000,000 in the aggregate since the Issue Date, provided that no Default or Event of Default shall have occurred and be continuing at the time of or immediately after giving effect to any such Restricted Payment. Any Restricted Payment described in the preceding clause (iii) shall be excludable in the calculation of the amount of Restricted Payments, and any Restricted payment described in any other clause shall be included in the calculation.

SECTION 4.11. Limitation on Sale of Assets. (a) The Company will not, and will not permit any Restricted Subsidiary to, make any Asset Sale unless:

(i) the Company (or its Restricted Subsidiaries, as the case may be) receives consideration at the time of such sale or other disposition at least equal to the fair market value thereof (as determined in good faith by the Company's Board of Directors and evidenced by a resolution of such Board, including a majority of the Company's Disinterested Directors, in the case of any Asset Sales or series of related Asset Sales having a fair market value of \$20,000,000 or greater);

(ii) (A) the consideration consists of cash, cash equivalents, Permitted Financial Investments or property, equipment, leasehold interests or other assets used in the Oil and Gas Business ("Permitted Consideration") or (B) the portion of the consideration that does not constitute Permitted Consideration, together with all other consideration received for Asset Sales since the Issue Date that does not constitute Permitted

Consideration, has a fair market value of no more than 10% of ACNTA;
and

(iii) the Net Available Proceeds received by the Company (or its Restricted Subsidiaries, as the case may be) from such Asset Sale are applied in accordance with paragraphs (b) or (c) hereof.

(b) The Company may apply such Net Available Proceeds within 365 days after receipt of Net Available Proceeds from any Asset Sale, to: (i) the repayment of Indebtedness of the Company under Credit Facilities or other Senior Indebtedness, including any mandatory redemption or repurchase or optional redemption of the Existing Notes or the Securities; (ii) make an Investment in assets used in the Oil and Gas Business; or (iii) develop by drilling the Company's oil and gas reserves.

(c) If, upon completion of the 365-day period referred to above, any portion of the Net Available Proceeds of any Asset Sale shall not have been applied by the Company as described in clauses (i), (ii) or (iii) of the immediately preceding paragraph and such remaining Net Available Proceeds, together with any remaining net cash proceeds from any prior Asset Sale (such aggregate constituting "Excess Proceeds"), exceed \$15,000,000, then the Company will be obligated to make an offer (the "Net Proceeds Offer") to purchase the Securities and any other Senior Indebtedness in respect of which such an offer to purchase is required to be made concurrently with the Net Proceeds Offer having an aggregate principal amount equal to the Excess Proceeds (such purchase to be made on a pro rata basis if the amount available for such repurchase is less than the principal amount of the Securities and other Senior Indebtedness tendered in such Net Proceeds Offer) at a purchase price of 100% of the principal amount thereof plus accrued and unpaid interest on the Securities and other Senior Indebtedness so repurchased to the date of repurchase. Upon the completion of the Net Proceeds Offer, the amount of Excess Proceeds will be reset to zero.

(d) The Company shall commence a Net Proceeds Offer by preparing and mailing a notice to the Trustee, the Paying Agent and each Holder as of such record date as the Company shall establish (upon written notice to the Trustee). Notice of a Net Proceeds Offer to purchase the Securities will be made on behalf of the Company not less than 25 Business Days nor more than 60 Business Days before the payment date of the Net Proceeds Offer (the "Net Proceeds Payment Date"), and shall set forth the Net Proceeds Offer

Amount and the Net Proceeds Payment Date and refer to and summarize the material points contained in Sections 4.11(d) and (e) hereof. Securities tendered to the Company pursuant to a Net Proceeds Offer will cease to accrue interest after the Net Proceeds Payment Date. For purposes of this covenant, the term "Net Proceeds Offer Amount" means the principal of outstanding Securities in an aggregate principal amount equal to any remaining Net Available Proceeds (rounded to the next lowest \$1,000). If the Net Proceeds Payment Date is on or after an interest payment record date and on or before the related interest payment date, any accrued interest payable on such interest payment date will be paid to the Person in whose name a Security is registered at the close of business on such record date, and no additional interest will be payable to Holders who tender Securities pursuant to the Net Proceeds Offer.

(e) On the Net Proceeds Payment Date, the Company will (i) accept for payment Securities and any other Senior Indebtedness in respect of which such an offer to purchase is required to be made concurrently with the Net Proceeds Offer or portions thereof pursuant to the Net Proceeds Offer in an aggregate principal amount equal to the Net Proceeds Offer Amount or such lesser amount as has been tendered, (ii) deposit with the Paying Agent (or if the Company or a Subsidiary is the Paying Agent, shall segregate and hold in trust) money sufficient to pay the purchase price of all Securities and such other Senior Indebtedness or portions thereof so tendered in an aggregate principal amount equal to the Net Proceeds Offer Amount or such lesser amount, including any accrued and unpaid interest thereon, and (iii) deliver or cause to be delivered to the Trustee, Securities so accepted together with an Officers' Certificate stating the Securities or portions thereof tendered to the Company. If the aggregate principal amount of Securities and such other Senior Indebtedness tendered exceeds the Net Proceeds Offer Amount, the Trustee will select the Securities and other Senior Indebtedness to be purchased (in integral multiples of \$1,000) on a pro rata basis based on the principal amount of Securities and other Senior Indebtedness so tendered and notify the Company, the Registrar and the Paying Agent. The Paying Agent, upon instruction of the Company, will promptly mail or deliver to Holders of Securities so accepted payment in an amount equal to the purchase price (representing those funds received pursuant to clause (ii) of this Section 4.11(e)), and the Company will execute and the Trustee will promptly authenticate and mail or make available for delivery to Holders a new Security equal in principal amount to any unpurchased portion of the Security surrendered. Any Securities not so accepted will be

promptly mailed or delivered to the Holder thereof by the Company, or, if the Company so directs the Trustee, by the Trustee on behalf of the Company at the Company's expense. The Company will publicly announce the results of the Net Proceeds Offer on or as soon as practicable after the Net Proceeds Payment Date. For purposes of this Section 4.11, the Trustee will act as the Paying Agent.

(f) The Company will comply with Section 14 of the Exchange Act and the provisions of Regulation 14E and any other tender offer rules under the Exchange Act and any other federal and state securities laws, rules and regulations which may then be applicable to any Net Proceeds Offer.

(g) During the period between any Asset Sale and the application of the Net Available Proceeds therefrom in accordance with this covenant, all Net Available Proceeds shall be maintained in a segregated account and shall be invested in Permitted Financial Investments.

(h) Notwithstanding the foregoing, the Company will not and will not permit any Restricted Subsidiary to, directly or indirectly, make any Asset Sale of any of the Capital Stock of a Restricted Subsidiary except pursuant to an Asset Sale of all of the Capital Stock of such Restricted Subsidiary.

SECTION 4.12. Limitation on Liens Securing Indebtedness. The Company will not, and will not permit any of its Restricted Subsidiaries to, create, incur, assume or suffer to exist any Liens (other than Permitted Liens) upon any of their respective properties securing (i) any Indebtedness of the Company, unless the Securities are equally and ratably secured or (ii) any Indebtedness of any Restricted Subsidiary, unless the Guarantees are equally and ratably secured; provided, that if such Indebtedness is expressly subordinated to the Securities or the Guarantees, the Lien securing such Indebtedness will be subordinated and junior to any Lien securing the Securities or the Guarantees, with the same relative priority as such Subordinated Indebtedness of the Company or Subordinated Indebtedness of a Restricted Subsidiary will have with respect to the Securities or the Guarantees, as the case may be.

SECTION 4.13. Limitation on Sale/Leaseback Transactions. The Company will not, and will not permit any of its Restricted Subsidiaries to, enter into any Sale/Leaseback Transaction with any Person (other than the Company or any other Restricted Subsidiary) unless (i) the Company or such Restricted Subsidiary, as the case may be,

would be able to incur Indebtedness in a principal amount equal to the Attributable Indebtedness with respect to such Sale/Leaseback Transaction in accordance with Section 4.09 or (ii) the Company or such Restricted Subsidiary receives proceeds from such Sale/Leaseback Transaction at least equal to the fair market value thereof (as determined in good faith by the Company's Board of Directors, whose determination in good faith, evidenced by a resolution of such Board shall be conclusive) and such proceeds are applied in the same manner and to the same extent as Net Available Proceeds and Excess Proceeds from an Asset Sale.

SECTION 4.14. Limitation on Payment Restrictions Affecting Subsidiaries.

The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, create or otherwise cause or suffer to exist or become effective any consensual encumbrance or consensual restriction on the ability of any Restricted Subsidiary of the Company to (i) pay dividends or make any other distributions on its Capital Stock to the Company or a Restricted Subsidiary, (ii) pay any Indebtedness owed to the Company or a Restricted Subsidiary of the Company; (iii) make loans or advances to the Company or a Restricted Subsidiary of the Company; or (iv) transfer any of its properties or assets to the Company or a Restricted Subsidiary of the Company (each, a "Payment Restriction"), except for (a) encumbrances or restrictions under Credit Facilities; provided, that any Payment Restrictions thereunder (other than, with respect to (iv) above, customary restrictions in security agreements or other loan documents thereunder securing or governing Indebtedness of a Restricted Subsidiary) may be imposed only upon the acceleration of the maturity of the Indebtedness thereunder; (b) consensual encumbrances or consensual restrictions binding upon any Person at the time such Person becomes a Restricted Subsidiary of the Company (unless the agreement creating such consensual encumbrances or consensual restrictions was entered into in connection with, or in contemplation of, such entity becoming a Restricted Subsidiary); (c) consensual encumbrances or consensual restrictions under any agreement that refinances or replaces any agreement described in clauses (a) and (b) above, provided that the terms and conditions of any such restrictions are in the aggregate no less favorable to the holders of the Securities than those under the agreement so refinanced or replaced; and (d) customary non-assignment provisions in leases, purchase money financings and any encumbrance or restriction due to applicable law.

SECTION 4.15. Limitation on Transactions with Affiliates. The Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, enter into any transaction or series of transactions (including, without limitation, the sale, purchase or lease of any assets or properties or the rendering of any services) with any Affiliate or beneficial owner (as defined in Rules 13d-3 and 13d-5 under the Exchange Act) of 10% or more of the Company's common stock (other than with a Restricted Subsidiary of the Company) (an "Affiliate Transaction"), on terms that are less favorable to the Company or such Restricted Subsidiary, as the case may be, than would be available in a comparable transaction with an unrelated Person. In addition, the Company will not, and will not permit any Restricted Subsidiary of the Company to, enter into an Affiliate Transaction, or any series of related Affiliate Transactions having a value of (a) more than \$5,000,000 unless a majority of the Board of Directors of the Company (including a majority of the Company's Disinterested Directors) determines in good faith, as evidenced by a resolution of such Board, that such Affiliate Transaction or series of related Affiliate Transactions is fair to the Company; or (b) more than \$25,000,000, unless the Company receives a written opinion from a nationally recognized investment banking firm with total assets in excess of \$1,000,000,000 that such transaction or series of transactions is fair to the Company from a financial point of view.

SECTION 4.16. Change of Control. (a) Following the occurrence of any Change of Control, the Company shall offer (a "Change of Control Offer") to purchase all outstanding Securities at a purchase price equal to 101% of the aggregate outstanding principal amount of the Securities, plus accrued and unpaid interest on the Securities so purchased to the date of purchase. The Change of Control Offer shall be deemed to have commenced upon mailing of the notice described in the next succeeding paragraph and shall terminate 20 Business Days after its commencement, unless a longer offering period is required by law. Promptly after the termination of the Change of Control Offer (the "Change of Control Payment Date"), the Company shall purchase and mail or deliver payment for all Securities tendered in response to the Change of Control Offer. If the Change of Control Payment Date is on or after an interest payment record date and on or before the related interest payment date, any accrued interest payable on such interest payment date will be paid to the Person in whose name a Security is registered at the close of business on such record date, and no additional interest will be payable to Holders who tender Securities pursuant to the Change of Control Offer.

(b) Within 15 days after any Change of Control, the Company (with notice to the Trustee and the Paying Agent), or the Trustee at the Company's request and expense, will mail or cause to be mailed to all Holders on the date of the Change of Control a notice prepared by the Company (the "Change of Control Notice") of the occurrence of such Change of Control and of the Holders' rights arising as a result thereof. The Change of Control Notice will contain all instructions and materials necessary to enable Holders to tender their Securities to the Company. The Change of Control Notice, which shall govern the terms of the Change of Control Offer, shall state: (1) that the Change of Control Offer is being made pursuant to this Section 4.16; (2) the purchase price and the Change of Control Payment Date; (3) that any Security not tendered will continue to accrue interest at the stated rate; (4) that any Security accepted for payment pursuant to the Change of Control Offer shall cease to accrue interest on the Change of Control Payment Date; (5) that Holders electing to have a Security purchased pursuant to any Change of Control Offer will be required to surrender the Security, with the form entitled "Option of Holder to Elect Purchase" on the reverse of the Security completed, to the Company, a depository, if appointed by the Company, or a Paying Agent at the address specified in the notice prior to termination of the Change of Control Offer; (6) that Holders will be entitled to withdraw their election if the Company, depository or Paying Agent, as the case may be, receives, not later than the expiration of the Change of Control Offer, or such longer period as may be required by law, a telegram, telex, facsimile transmission or letter setting forth the name of the Holder, the principal amount of the Security the Holder delivered for purchase and a statement that such Holder is withdrawing its election to have the Security purchased; and (7) that Holders whose Securities are purchased only in part will be issued Securities equal in principal amount to the unpurchased portion of the Securities surrendered.

(c) On the Change of Control Payment Date, the Company shall, to the extent permitted by applicable law, (i) accept for payment Securities or portions thereof tendered pursuant to the Change of Control Notice, (ii) if the Company appoints a depository or Paying Agent, deposit with such depository or Paying Agent money sufficient to pay the purchase price of all Securities or portions thereof so tendered and (iii) deliver to the Trustee Securities so accepted together with an Officers' Certificate stating the Securities or portions thereof tendered to the Company. The depository, the Company or the Paying Agent, as the case may be, shall promptly mail to the Holders of Securities so

accepted payment in an amount equal to the purchase price (representing those funds received pursuant to clause (ii) of this Section 4.16(c)), and the Trustee shall promptly authenticate and mail to each such Holder a new Security equal in principal amount to any unpurchased portion of the Security surrendered; provided that each such new Security will be in a principal amount of \$1,000 or an integral multiple thereof. The Company will publicly announce the results of the Change of Control Offer on or as soon as practicable after the Change of Control Payment Date. For purposes of this Section 4.16, the Trustee shall act as the Paying Agent.

(d) The Company will comply with Section 14 of the Exchange Act and the provisions of Regulation 14E and any other tender offer rules under the Exchange Act and any other federal and state securities laws, rules and regulations which may then be applicable to any offer by the Company to purchase the Securities at the option of the Holders upon a Change of Control.

ARTICLE FIVE

SUCCESSOR CORPORATION

SECTION 5.01. When Company May Merge, etc. The Company shall not consolidate with or merge with or into any Person or sell, convey, lease, transfer or otherwise dispose of all or substantially all of its assets to any Person, unless:

(1) the Company survives such merger or the Person formed by such consolidation or into which the Company is merged or that acquires by sale, conveyance, transfer or other disposition, or which leases, all or substantially all of the assets of the Company is a corporation organized and existing under the laws of the United States of America, any state thereof or the District of Columbia, or Canada or any province thereof, and expressly assumes, by supplemental indenture, the due and punctual payment of the principal of, premium, if any, and interest on, all the Securities and the performance of every other covenant and obligation of the Company under this Indenture;

(2) immediately before and after giving effect to such transaction no Default or Event of Default exists;

(3) immediately after giving effect to such transaction on a pro forma basis, the Consolidated

Tangible Net Worth of the Company (or the surviving or transferee entity) is equal to or greater than the Consolidated Tangible Net Worth of the Company immediately before such transaction; and

(4) immediately after giving effect to such transaction on a pro forma basis, the Company (or the surviving or transferee entity) would be able to incur \$1.00 of additional Indebtedness under the test described in Section 4.09(a) (other than Permitted Indebtedness).

In connection with any consolidation, merger, sale, conveyance, lease, transfer or other disposition contemplated by this Section 5.01, the Company shall deliver to the Trustee prior to the consummation of the proposed transaction an Officers' Certificate to the foregoing effect and an Opinion of Counsel stating that the proposed transaction and such supplemental indenture comply with this Indenture.

SECTION 5.02. Successor Corporation Substituted. Upon any consolidation, merger, lease, conveyance or transfer in accordance with Section 5.01, the Trustee shall be notified by the Company and the successor Person, and the successor Person formed by such consolidation or into which the Company is merged or to which such lease, conveyance or transfer is made shall succeed to, and be substituted for, and may exercise every right and power of, the Company under this Indenture with the same effect as if such successor had been named as the Company herein and thereafter (except in the case of a lease) the predecessor corporation will be relieved of all further obligations and covenants under this Indenture and the Securities.

ARTICLE SIX

DEFAULTS AND REMEDIES

SECTION 6.01. Events of Default. An "Event of Default" occurs upon:

(1) default by the Company or any Subsidiary Guarantor in the payment of principal of, or premium, if any, on the Securities when due and payable at maturity, upon repurchase pursuant to Section 4.11 or 4.16, upon acceleration or otherwise;

(2) default by the Company or any Subsidiary Guarantor in the payment of any installment of [GRAPHIC OMITTED][GRAPHIC OMITTED]

interest on the Securities when due and payable and continuance of such default for 30 days;

(3) default by the Company or any Subsidiary Guarantor in the deposit of any optional redemption payment, when and as due and payable pursuant to Article Three;

(4) default on any other Indebtedness (other than Non-Recourse Indebtedness and Unrestricted Subsidiary Indebtedness) of the Company, any Subsidiary Guarantor or any other Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) if either (A) such default results in the acceleration of the maturity of any such Indebtedness having a principal amount of \$10,000,000 or more individually or, taken together with the principal amount of any other such Indebtedness the maturity of which has been so accelerated, in the aggregate, or (B) such default results from the failure to pay when due principal of, premium, if any, or interest on, any such Indebtedness, after giving effect to any applicable grace period (a "Payment Default"), having a principal amount of \$10,000,000 or more individually or, taken together with the principal amount of any other Indebtedness under which there has been a Payment Default, in the aggregate;

(5) default in the performance, or breach of, the covenants set forth in Section 4.10 and Article Five, or in the performance, or breach of, any other covenant or agreement of the Company or any Subsidiary Guarantor in this Indenture and failure to remedy such default within a period of 45 days after written notice thereof from the Trustee or Holders of 25% of the principal amount of the outstanding Securities;

(6) the entry by a court of one or more judgments or orders for the payment of money against the Company, any Subsidiary Guarantor or any other Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary, provided that neither the Company nor any Restricted Subsidiary is liable, directly or indirectly, for such judgment or order) in an aggregate amount in excess of \$10,000,000 (net of applicable insurance coverage by a third party insurer which is acknowledged in writing by such insurer) that has

not been vacated, discharged, satisfied or stayed pending appeal within 60 days from the entry thereof;

(7) a Guarantee by a Subsidiary Guarantor shall cease to be in full force and effect (other than a release of a Guarantee in accordance with Section 10.04) or any Subsidiary Guarantor shall deny or disaffirm its obligations with respect thereto;

(8) the Company or any Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) pursuant to or within the meaning of any Bankruptcy Law:

(A) commences a voluntary case or proceeding,

(B) consents to the entry of an order for relief against it in an involuntary case or proceeding,

(C) consents to the appointment of a Custodian of it or for all or substantially all of its property,

(D) makes a general assignment for the benefit of its creditors, or

(E) admits in writing that it generally is unable to pay its debts as the same become due; or

(9) a court of competent jurisdiction enters an order or decree under any Bankruptcy Law that:

(A) is for relief (with respect to the petition commencing such case) against the Company or any Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) in an involuntary case or proceeding,

(B) appoints a Custodian of the Company or any Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary) or for all or substantially all of its property, or

(C) orders the liquidation of the Company or any Subsidiary (other than a Non-Recourse Subsidiary or an Unrestricted Subsidiary), and the order or decree remains unstayed and in effect for 60 days.

The term "Bankruptcy Law" means Title 11, U.S. Code or any similar federal or state law for the relief of debtors. The term "Custodian" means any receiver, trustee, assignee, liquidator or similar official under any Bankruptcy Law.

SECTION 6.02. Acceleration. If an Event of Default (other than an Event of Default specified in clauses (8) or (9)) under Section 6.01 occurs and is continuing, then and in every such case the Trustee or the Holders of not less than 25% of the principal amount of the outstanding Securities may declare the unpaid principal of and premium, if any, or the Change of Control purchase price if the Event of Default includes failure to pay the Change of Control purchase price, and accrued and unpaid interest on, all the Securities then outstanding to be due and payable, by a notice in writing to the Company (and to the Trustee, if given by Holders), and upon any such declaration such principal, premium, if any, and accrued and unpaid interest shall become immediately due and payable, notwithstanding anything contained in this Indenture or the Securities to the contrary. If an Event of Default specified in clauses 8 or 9 above occurs, all unpaid principal of, and premium, if any, and accrued and unpaid interest on, the Securities then outstanding will become due and payable, without any declaration or other act on the part of the Trustee or any Holder.

The Holders of a majority of the principal amount of the outstanding Securities, by written notice to the Company, the Subsidiary Guarantors and the Trustee, may rescind and annul a declaration of acceleration and its consequences if (1) the Company or any Subsidiary Guarantor has paid or deposited with such Trustee a sum sufficient to pay (A) all overdue installments of interest on all the Securities, (B) the principal of, and premium, if any, on any Securities that have become due otherwise than by such declaration of acceleration and interest thereon at the rate or rates prescribed therefor in the Securities, (C) to the extent that payment of such interest is lawful, interest on the defaulted interest at the rate or rates prescribed therefor in the Securities, and (D) all money paid or advanced by the Trustee thereunder and the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel; (2) all Events of Default,

other than the non-payment of the principal of any Securities that have become due solely by such declaration of acceleration, have been cured or waived as provided in this Indenture; and (3) the rescission would not conflict with any judgment or decree of a court of competent jurisdiction. No such rescission will affect any subsequent Event of Default or impair any right consequent thereon.

SECTION 6.03. Other Remedies. If an Event of Default occurs and is continuing, the Trustee may, but is not obligated to, pursue, in its own name and as trustee of an express trust, any available remedy by proceeding at law or in equity to collect the payment of principal or interest on the Securities or to enforce the performance of any provision of the Securities or this Indenture. If an Event of Default specified under clauses (8) or (9) of Section 6.01 occurs with respect to the Company at a time when the Company is the Paying Agent, the Trustee shall automatically assume the duties of Paying Agent.

The Trustee may maintain a proceeding even if it does not possess any of the Securities or does not produce any of them in the proceeding. A delay or omission by the Trustee or any Holder in exercising any right or remedy accruing upon an Event of Default shall not impair the right or remedy or constitute a waiver of or acquiescence in the Event of Default. No remedy is exclusive of any other remedy. All available remedies are cumulative.

SECTION 6.04. Waiver of Past Defaults. Subject to Sections 6.07 and 9.02, the Holders of at least a majority of the principal amount of the outstanding Securities by notice to the Trustee may waive an existing Default or Event of Default and its consequences, except a Default or Event of Default in payment of principal or interest on the Securities, including any optional redemption payments or Change of Control or Net Proceeds Offer payments.

SECTION 6.05. Control by Majority. The Holders of a majority in principal amount of the Securities will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee or exercising any trust or power conferred on such Trustee, provided that (1) such direction is not in conflict with any rule of law or with this Indenture and (2) the Trustee may take any other action deemed proper by such Trustee that is not inconsistent with such direction.

SECTION 6.06. Limitation on Remedies. No Holder of any of the Securities will have any right to institute any

proceeding, judicial or otherwise, or for the appointment of a receiver or trustee or pursue any remedy under this Indenture, unless:

(1) such Holder has previously given notice to the Trustee of a continuing Event of Default,

(2) the Holders of not less than 25% of the principal amount of the outstanding Securities have made written request to such Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee under this Indenture,

(3) such Holder or Holders have offered to such Trustee reasonable indemnity against the costs, expenses and liabilities to be incurred in compliance with such request,

(4) such Trustee for 60 days after its receipt of such notice, request and offer of indemnity has failed to institute any proceeding, and

(5) no direction inconsistent with such written request has been given to such Trustee during such 60-day period by the Holders of a majority of the principal amount of the outstanding Securities.

A Holder may not use this Indenture to prejudice the rights of another Holder or to obtain a preference or priority over other Holders.

SECTION 6.07. Rights of Holders to Receive Payment. Notwithstanding any other provision of this Indenture, the Holder of any Securities will have the right, which is absolute and unconditional, to receive payment of the principal of and interest on such Securities on the stated maturity therefor and to institute suit for the enforcement of any such payment, and such right may not be impaired without the consent of such Holder.

SECTION 6.08. Collection Suit by Trustee. If an Event of Default in payment of principal, premium, if any, or interest specified in Section 6.01(1), (2) or (3) occurs and is continuing, the Trustee may recover judgment in its own name and as trustee of an express trust against the Company or any Subsidiary Guarantor for the whole amount of principal, premium, if any, and interest remaining unpaid with respect to the Securities, and interest on overdue principal and premium, if any, and, to the extent lawful,

interest on overdue interest, and such further amounts as shall be sufficient to cover the costs and expenses of collection, including the reasonable compensation and expenses of the Trustee, its agents and counsel.

SECTION 6.09. Trustee May File Proofs of Claim. (a) The Trustee may file such proofs of claim and other papers or documents as may be necessary or advisable in order to have the claims of the Trustee and the Holders allowed in any judicial proceedings relative to the Company, the Subsidiary Guarantors, their creditors or their property and may collect and receive any money or securities or other property payable or deliverable on any such claims and to distribute the same.

(b) Nothing herein contained shall be deemed to authorize the Trustee to authorize or consent to or accept or adopt on behalf of any Holder any plan of reorganization, arrangement, adjustment or composition affecting the Securities or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding.

SECTION 6.10. Priorities. If the Trustee collects any money pursuant to this Article Six, it shall pay out the money in the following order:

First: to the Trustee for amounts due under Section 7.07;

Second: to Holders for amounts due and unpaid on the Securities for principal and interest, ratably, without preference or priority of any kind, according to the amounts due and payable on the Securities for principal and interest, respectively; and

Third: to the Company.

The Trustee may fix a record date and payment date for any payment to Holders pursuant to this Section 6.10.

SECTION 6.11. Undertaking for Costs. In any suit for the enforcement of any right or remedy under this Indenture or in any suit against the Trustee for any action taken or omitted by it as Trustee, a court in its discretion may require the filing by any party litigant in the suit of an undertaking to pay the costs of the suit, and the court in its discretion may assess reasonable costs, including reasonable attorneys' fees, against any party litigant in the suit, having due regard to the merits and good faith of the claims or defenses made by the party litigant. This Section

6.11 does not apply to a suit by the Trustee, a suit by a Holder pursuant to Section 6.07, or a suit by Holders of more than 10% in principal amount of the then outstanding Securities.

ARTICLE SEVEN

TRUSTEE

SECTION 7.01. Duties of Trustee. (a) If an Event of Default has occurred and is continuing, the Trustee shall exercise such rights and powers vested in it by this Indenture and use the same degree of care and skill in such exercise as a prudent person would exercise or use under the circumstances in the conduct of such person's own affairs.

(b) Except during the continuance of an Event of Default:

(1) The Trustee need perform only those duties that are specifically set forth (or incorporated by reference) in this Indenture and no others.

(2) In the absence of bad faith on its part, the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, upon certificates or opinions furnished to the Trustee and conforming to the requirements of this Indenture. However, the Trustee shall examine such certificates and opinions to determine whether or not they conform to the requirements of this Indenture.

(c) The Trustee may not be relieved from liability for its own negligent action, its own negligent failure act, or its own willful misconduct, except that:

(1) This paragraph (c) does not limit the effect of paragraph (b) of this Section.

(2) The Trustee shall not be liable for any error of judgment made in good faith by an officer of the Trustee, unless it is proved that the Trustee was negligent in ascertaining the pertinent facts.

(3) The Trustee shall not be liable with respect to action it takes or omits to take in good faith in accordance with a direction received by it pursuant to Section 6.05, and the Trustee shall be

entitled from time to time to request such a direction.

(d) Every provision of this Indenture that in any way relates to the Trustee is subject to paragraphs (a), (b) and (c) of this Section.

(e) The Trustee shall be under no obligation and may refuse to perform any duty or exercise any right or power unless it receives indemnity satisfactory to it against any loss, liability or expense. No provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur financial liability in the performance of any of its duties hereunder or in the exercise of any of its rights or powers, if it shall have reasonable grounds to believe that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it.

(f) The Trustee shall not be liable for interest on any money received by it except as the Trustee may agree in writing with the Company. Money held in trust by the Trustee need not be segregated from other funds except to the extent required by law.

SECTION 7.02. Rights of Trustee. Subject to Section 7.01:

(a) The Trustee may rely on and shall be protected in acting or refraining from acting upon any document believed by it to be genuine and to have been signed or presented by the proper person. The Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture or other paper or document, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such further inquiry or investigation, it shall be entitled to examine the books, records and premises of the Company, personally or by agent or attorney, to the extent reasonably required by such inquiry or investigation.

(b) Before the Trustee acts or refrains from acting, it may require an Officers' Certificate or an Opinion of Counsel. The Trustee shall not be liable for any action it takes or omits to take in good faith in reliance on such certificate or opinion.

(c) The Trustee may act through agents and shall not be responsible for the misconduct or negligence of any agent appointed with due care.

(d) The Trustee shall not be liable for any action it takes or omits to take in good faith which it believes to be authorized or within its rights or powers.

SECTION 7.03. Individual Rights of Trustee. The Trustee in its individual or any other capacity may become the owner or pledgee of Securities and may otherwise deal with the Company or its Subsidiaries or Affiliates with the same rights it would have if it were not Trustee. Any Agent may do the same with like rights. However, the Trustee must comply with Sections 7.10 and 7.11.

SECTION 7.04. Trustee's Disclaimer. The Trustee makes no representation as to the validity or adequacy of this Indenture or the Securities, it shall not be accountable for the Company's use of the proceeds from the Securities or any prospectus, offering or solicitation documents, and it shall not be responsible for any statement in the Securities other than its certificate of authentication.

SECTION 7.05. Notice of Defaults. If a Default occurs and is continuing and if it is known to the Trustee, the Trustee shall mail to each Holder pursuant to Section 11.02 a notice of the Default within 90 days after it occurs. Except in the case of a Default in any payment on any Security, the Trustee may withhold the notice if and so long as the board of directors, executive committee or a trust committee of officers in good faith determines that withholding the notice is in the interests of Holders.

SECTION 7.06. Reports by Trustee to Holders. Within 60 days after each April 1, beginning with the April 1 following the date of this Indenture, the Trustee shall mail to each Holder a brief report dated as of such April 1 that complies with TIA Section 313(a), but only if such report is required in any year under TIA Section 313(a). The Trustee also shall comply with TIA Sections 313(b) and 313(c). A copy of each report at the time of its mailing to Holders shall be filed with the SEC and each stock exchange on which the Securities are listed. The Company shall notify the Trustee in writing when the Securities become listed on any national securities exchange or of any delisting thereof.

SECTION 7.07. Compensation and Indemnity. The Company and the Subsidiary Guarantors jointly and severally agree to pay the Trustee from time to time reasonable compensation for

its services (which compensation shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust). The Company and the Subsidiary Guarantors jointly and severally agree to reimburse the Trustee upon request for all reasonable out-of-pocket expenses, disbursements and advances incurred by it. Such expenses shall include when applicable the reasonable compensation and expenses of the Trustee's agents and counsel.

The Trustee shall not be under any obligation to institute any suit, or take any remedial action under this Indenture, or to enter any appearance or in any way defend any suit in which it may be a defendant, or to take any steps in the execution of the trusts created hereby or thereby or in the enforcement of any rights and powers under this Indenture, until it shall be indemnified to its satisfaction against any and all reasonable expenses, disbursements and advances incurred or made by the Trustee in accordance with any provisions of this Indenture, including compensation for services, costs, expenses, outlays, counsel fees and other disbursements, and against all liability not due to its negligence or willful misconduct. The Company and the Subsidiary Guarantors jointly and severally agree to indemnify the Trustee against any loss, liability or expenses incurred by it arising out of or in connection with the acceptance and administration of the trust and its duties hereunder as Trustee, Registrar and/or Paying Agent, including the costs and expenses of enforcing this Indenture against the Company (including with respect to this Section 7.07) and of defending itself against any claim or liability in connection with the exercise or performance of any of its powers or duties hereunder. The Trustee shall notify the Company and the Subsidiary Guarantors of any claim for which it may seek indemnity; however, unless the position of the Company is prejudiced by such failure, the failure of the Trustee to promptly notify the Company shall not limit its right to indemnification. The Company shall defend each such claim and the Trustee shall cooperate in the defense. The Trustee may retain separate counsel and the Company shall reimburse the Trustee for the reasonable fees and expenses of such counsel. The Company need not pay for any settlement made without its consent.

Neither the Company nor the Subsidiary Guarantors shall be obligated to reimburse any expense or indemnify against any loss or liability incurred by the Trustee through the Trustee's negligence or willful misconduct. To secure the payment obligations of the Company and the Subsidiary Guarantors in this Section, the Trustee shall have a claim

prior to that of the Holders of the Securities on all money or property held or collected by the Trustee, except that held in trust to pay principal of and interest on particular Securities. The Trustee's right to receive payment of any amounts due under this Section 7.07 shall not be subordinate to any other liability or Indebtedness of the Company.

When the Trustee incurs expenses or renders services after the occurrence of any Event of Default specified in Sections 6.01(8) or (9), the expenses and the compensation for the services are intended to constitute expenses of administration under any Bankruptcy Law.

SECTION 7.08. Replacement of Trustee. The Trustee may resign by so notifying the Company and the Subsidiary Guarantors. The Holders of a majority in principal amount of the Securities may remove the Trustee by so notifying the Trustee, in writing. The Company may remove the Trustee if:

- (1) the Trustee fails to comply with Section 7.10;
- (2) the Trustee is adjudged a bankrupt or an insolvent;
- (3) a receiver or other public officer takes charge of the Trustee or its property; or
- (4) the Trustee becomes incapable of acting as Trustee hereunder.

If the Trustee resigns or is removed or if a vacancy exists in the office of Trustee for any reason, the Company shall promptly appoint a successor Trustee. Within one year after the successor Trustee takes office, the Holders of a majority in principal amount of the Securities may appoint a successor Trustee to replace the successor Trustee appointed by the Company.

A successor Trustee shall deliver a written acceptance of its appointment to the retiring Trustee and to the Company and the Subsidiary Guarantors. Immediately after that, the retiring Trustee shall transfer all property held by it as Trustee to the successor Trustee, subject to the lien provided for in Section 7.07, the resignation or removal of the retiring Trustee shall become effective, and the successor Trustee shall have all the rights, powers and duties of the Trustee under this Indenture. A successor Trustee shall mail notice of its succession to each Holder.

If a successor Trustee does not take office within 30 days after the retiring Trustee resigns or is removed, the retiring Trustee, the Company or the Holders of a majority in principal amount of the Securities may petition any court of competent jurisdiction for the appointment of a successor Trustee.

If the Trustee fails to comply with Section 7.10, any Holder may petition any court of competent jurisdiction for the removal of the Trustee and the appointment of a successor Trustee. Any successor Trustee shall comply with TIA Section 310(a)(5).

SECTION 7.09. Successor Trustee by Merger, etc. If the Trustee consolidates, merges or converts into, or transfers all or substantially all of its corporate trust assets to, another corporation, the successor corporation without any further act shall be the successor Trustee; provided such corporation or association shall be otherwise eligible and qualified under this Article and shall notify the Company of its successor hereunder.

SECTION 7.10. Eligibility; Disqualification. This Indenture shall always have a Trustee which satisfies the requirements of TIA Section 310(a)(1). The Trustee shall always have a combined capital and surplus of at least \$50,000,000 as set forth in its most recent published annual report of condition. The Trustee shall also comply with TIA Section 310(b).

SECTION 7.11. Preferential Collection of Claims Against Company. The Trustee shall comply with TIA Section 311(a), excluding any creditor relationship listed in TIA Section 311(b). A Trustee who has resigned or been removed shall be subject to TIA Section 311(a) to the extent indicated therein.

ARTICLE EIGHT

DISCHARGE OF INDENTURE

SECTION 8.01. Option to Effect Legal Defeasance or Covenant Defeasance.

The Company may, at the option of its Board of Directors evidenced by a resolution set forth in an Officers' Certificate, at any time, with respect to the Securities, elect to exercise its rights pursuant to either Section 8.02 or 8.03 with respect to all outstanding Securities upon compliance with the conditions set forth below in this Article Eight.

SECTION 8.02. Legal Defeasance and Discharge. Upon the Company's exercise under Section 8.01 of the option applicable to this Section 8.02, the Company shall be deemed to have been discharged from its obligations with respect to all outstanding Securities on the date all conditions set forth below are satisfied (hereinafter, "Legal Defeasance"). For this purpose, such Legal Defeasance means that the Company shall be deemed to have paid and discharged the entire Indebtedness represented by the outstanding Securities, which shall thereafter be deemed to be "outstanding" only for the purposes of Section 8.05 and the other Sections of this Indenture referred to in (a) and (b) below, and to have satisfied all its other obligations under such Securities and this Indenture (and the Trustee, on demand of and at the expense of the Company, shall execute proper instruments acknowledging the same), except for the following which shall survive until otherwise terminated or discharged hereunder: (a) the rights of Holders of outstanding Securities to receive solely from the trust fund described in Section 8.04, and as more fully set forth in such Section, payments in respect of the principal of, premium, if any, and interest on such Securities when such payments are due, (b) the Company's obligations with respect to such Securities under Sections 2.03, 2.04, 2.06, 2.07, 2.09 and 4.04, (c) the rights, powers, trusts, duties and immunities of the Trustee hereunder and the Company's obligations in connection therewith (including, but not limited to, Section 7.07) and (d) this Article Eight. Subject to compliance with this Article Eight, the Company may exercise its option under this Section 8.02 notwithstanding the prior exercise of its option under Section 8.03 with respect to the Securities.

SECTION 8.03. Covenant Defeasance. Upon the Company's exercise under Section 8.01 of the option applicable to this Section 8.03, the Company shall be released from its obligations under the covenants contained in the second sentence of Section 4.02, Sections 4.03, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, and 4.16 and Article Five with respect to the outstanding Securities on and after the date the conditions set forth below are satisfied (hereinafter, "Covenant Defeasance"), and the Securities shall thereafter be deemed not "outstanding" for the purposes of any direction, waiver, consent or declaration or act of Holders (and the consequences of any thereof) in connection with such covenants, but shall continue to be deemed "outstanding" for all other purposes hereunder (it being understood that such Securities shall not be deemed outstanding for accounting purposes). For this purpose, such Covenant Defeasance means that, with respect to the

outstanding Securities, the Company may omit to comply with and shall have no liability in respect of any term, condition or limitation set forth in any such covenant, whether directly or indirectly, by reason of any reference elsewhere herein to any such covenant or by reason of any reference in any such covenant to any other provision herein or in any other document and such omission to comply shall not constitute a Default or an Event of Default under Section 6.01(5), but, except as specified above, the remainder of this Indenture and such Securities shall be unaffected thereby. In addition, upon the Company's exercise under Section 8.01 of the option applicable to this Section 8.03, Sections 6.01(4) through 6.01(9) shall not constitute Events of Default.

SECTION 8.04. Conditions to Legal or Covenant Defeasance. The following shall be the conditions to application of either Section 8.02 or Section 8.03 to the outstanding Securities:

(a) The Company shall irrevocably have deposited or cause to be deposited with the Trustee (or another trustee satisfying the requirements of Section 7.10 who shall agree to comply with the provisions of this Article Eight applicable to it) as trust funds in trust for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to, the benefit of the Holders of such Securities, (a) cash in U.S. Legal Tender in an amount, or (b) U.S. Government Securities which through the scheduled payment of principal and interest in respect thereof in accordance with their terms will provide, not later than one day before the due date of any payment, cash in U.S. Legal Tender in an amount, or (c) a combination thereof, in such amounts, as will be sufficient, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge and which shall be applied by the Trustee (or other qualifying trustee) to pay and discharge the principal of, premium, if any, and interest on the outstanding Securities on the Maturity Date or on the applicable redemption date, as the case may be, of such principal or installment of principal, premium, if any, or interest and in accordance with the terms of this Indenture and of such Securities; provided that the Trustee shall have been irrevocably instructed to apply such money or the proceeds of such U.S. Government Securities to said payments with respect to the Securities.

(b) In the case of an election under the Company shall have delivered to the Trustee Section 8.02, an Opinion of

Counsel confirming that (i) the Company has received from, or there has been published by, the Internal Revenue Service a ruling or (ii) since the date hereof, there has been a change in the applicable federal income tax law, in either case to the effect that, and based thereon such opinion shall confirm that, the Holders of the outstanding Securities will not recognize income, gain or loss for federal income tax purposes as a result of such Legal Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Legal Defeasance had not occurred;

(c) In the case of an election under Section 8.03, the Company shall have delivered to the Trustee an Opinion of Counsel to the effect that the Holders of the outstanding Securities will not recognize income, gain or loss for federal income tax purposes as a result of such Covenant Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Covenant Defeasance had not occurred;

(d) No Default or Event of Default with respect to the Securities shall have occurred and be continuing on the date of such deposit or, insofar as Subsection 6.01(8) or 6.01(9) is concerned, at any time in the period ending on the 91st day after the date of such deposit (it being understood that this condition shall not be deemed satisfied until the expiration of such period);

(e) Such Legal Defeasance or Covenant Defeasance shall not result in a breach or violation of, or constitute a default under, this Indenture or any other material agreement or instrument to which the Company is a party or by which the Company is bound;

(f) In the case of any election under Section 8.02 or 8.03, the Company shall have delivered to the Trustee an Officers' Certificate stating that the deposit made by the Company pursuant to its election under Section 8.02 or 8.03 was not made by the Company with the intent of preferring the Holders over other creditors of the Company or with the intent of defeating, hindering, delaying or defrauding creditors of the Company or others; and

(g) The Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent provided for relating to either the Legal Defeasance under Section 8.02 or the Covenant Defeasance under Section 8.03 (as the case may

be) have been complied with as contemplated by this Section 8.04.

SECTION 8.05. Deposited Money and U.S. Government Securities to be Held in Trust; Other Miscellaneous Provisions. Subject to Section 8.06, all money and U.S. Government Securities (including the proceeds thereof) deposited with the Trustee (or other qualifying trustee, collectively for purposes of this Section 8.05, the "Trustee") pursuant to Section 8.04 in respect of the outstanding Securities shall be held in trust and applied by the Trustee, in accordance with the provisions of such Securities and this Indenture, to the payment, either directly or through any Paying Agent (including the Company or a Subsidiary Guarantor, if any, acting as Paying Agent) as the Trustee may determine, to the Holders of such Securities of all sums due and to become due thereon in respect of principal, premium, if any, and interest, but such money need not be segregated from other funds except to the extent required by law.

The Company shall pay and indemnify the Trustee against any tax, fee or other charge imposed on or assessed against the cash or U.S. Government Securities deposited pursuant to Section 8.04 or the principal and interest received in respect thereof other than any such tax, fee or other charge which by law is for the account of the Holders of the outstanding Securities.

Anything in this Article Eight to the contrary notwithstanding, the Trustee shall deliver or pay to the Company from time to time upon the Company's request any money or U.S. Government Securities held by it as provided in Section 8.04 which, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee (which may be the opinion delivered under Section 8.04(a)), are in excess of the amount thereof which would then be required to be deposited to effect an equivalent Legal Defeasance or Covenant Defeasance.

SECTION 8.06. Repayment to Company. Any money deposited with the Trustee or any Paying Agent, or then held by the Company, in trust for the payment of the principal of, premium, if any, or interest on any Security which is not subject to the last paragraph of Section 8.05 and has remained unclaimed for two years after such principal, and premium, if any, or interest has become due and payable shall be paid to the Company on its request (unless an abandoned property law designates another Person) or (if then held by

the Company) shall be discharged from such trust; and the Holder of such Securities shall thereafter, as an unsecured general creditor, look only to the Company for payment thereof, and all liability of the Trustee or such Paying Agent with respect to such trust money, and all liability of the Company as trustee thereof, shall thereupon cease; provided, however, that the Trustee or such Paying Agent, before being required to make any such repayment, may at the expense of the Company cause to be published once, in the New York Times and The Wall Street Journal (national edition), notice that such money remains unclaimed and that, after a date specified therein, which shall not be less than 30 days from the date of such publication, any unclaimed balance of such money then remaining will be repaid to the Company.

SECTION 8.07. Reinstatement. If the Trustee or Paying Agent is unable to apply any U.S. Legal Tender or U.S. Government Securities in accordance with Section 8.02 or 8.03, as the case may be, by reason of any order or judgment of any court or governmental authority enjoining, restraining, or otherwise prohibiting such application, then the Company's obligations under this Indenture and the Securities shall be revived and reinstated as though no deposit had occurred pursuant to Section 8.02 or 8.03 until such time as the Trustee or Paying Agent is permitted to apply all such money in accordance with Section 8.02 or 8.03, as the case may be; provided, however, that, if the Company makes any payment of principal of, premium, if any, or interest on any Security following the reinstatement of its obligations, the Company shall be subrogated to the rights of the Holders of such Securities to receive such payment from the money held by the Trustee or Paying Agent. In the event the Company's obligations under this Indenture and the Securities are revived and reinstated pursuant to this Section 8.07, then the obligations of each Subsidiary Guarantor under its Guarantee and this Indenture that were released pursuant to Section 10.04 as a result of the Company's exercise of its rights under this Article Eight shall be revived and reinstated as though such release had not occurred.

ARTICLE NINE

AMENDMENTS, SUPPLEMENTS AND WAIVERS

SECTION 9.01. Without Consent of Holders.

The Company, the Subsidiary Guarantors and the Trustee may amend or supplement this Indenture or the Securities without notice to or consent of any Holder:

- (1) to cure any ambiguity, defect or inconsistency;
- (2) to comply with Section 5.01;
- (3) to reflect the addition or release of any Subsidiary Guarantor, as provided for by this Indenture;
- (4) to comply with any requirements of the SEC in order to effect or maintain the qualification of this Indenture under the TIA; or
- (5) to make any change that would provide any additional benefit or rights to the Holders or that does not adversely affect the rights of any Holder in any material respect.

Upon the request of the Company and the Subsidiary Guarantors, accompanied by a Board Resolution of the Company and of each Subsidiary Guarantor authorizing the execution of any such supplemental indenture, and upon receipt by the Trustee of the documents described in Section 9.06, the Trustee shall join with the Company and the Subsidiary Guarantors in the execution of any supplemental indenture authorized or permitted by the terms of this Indenture and make any further appropriate agreements and stipulations that may be therein contained. After an amendment or waiver under this Section becomes effective, the Company shall mail to the Holders of each Security affected thereby a notice briefly describing the amendment or waiver. Any failure of the Company to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of any such supplemental indenture.

SECTION 9.02. With Consent of Holders. Except as provided below in this Section 9.02, the Company, the Subsidiary Guarantors and the Trustee may amend this Indenture or the Securities with the written consent (including consents obtained in connection with a tender offer or exchange offer for Securities or a solicitation of consents in respect of Securities, provided that in each case such offer or solicitation is made to all Holders of then outstanding Securities on equal terms) of the Holders of at least a majority of the principal amount of the outstanding Securities.

Upon the request of the Company and the Subsidiary Guarantors, accompanied by a Board Resolution of the Company and each Subsidiary Guarantor authorizing the execution of any such supplemental indenture, and upon the filing with the

Trustee of evidence of the consent of the Holders as aforesaid, and upon receipt by the Trustee of the Opinion of Counsel described in Section 9.06, the Trustee shall join with the Company and the Subsidiary Guarantors in the execution of such supplemental indenture.

It shall not be necessary for the consent of the Holders under this Section to approve the particular form of any proposed amendment or waiver, but it shall be sufficient if such consent approves the substance thereof.

The Holders of a majority of the principal amount of the outstanding Securities may waive compliance in a particular instance by the Company or the Subsidiary Guarantors with any provision of this Indenture or the Securities (including waivers obtained in connection with a tender offer or exchange offer for Securities or a solicitation of consents in respect of Securities, provided that in each case such offer or solicitation is made to all Holders of the then outstanding Securities on equal terms). However, without the consent of each Holder affected, an amendment or waiver under this Section may not:

- (1) reduce the percentage of principal amount of Securities whose Holders must consent to an amendment, supplement or waiver of any provision of this Indenture or the Securities;
- (2) reduce the rate or change the time for payment of interest, including default interest, on the Securities;
- (3) reduce the principal amount of any Security or change the Maturity Date of the Securities;
- (4) reduce the redemption price, including premium, if any, payable upon the redemption of any Security or change the time at which any Security may be redeemed;
- (5) reduce the repurchase price, including premium, if any, payable upon the repurchase of any Security pursuant to Sections 4.11 or 4.16, or change the time at which any Security may or shall be repurchased thereunder;
- (6) waive a Default or Event of Default in the payment of the principal of, premium, if any, or interest on the Securities;

(7) make any Security payable in money other than that stated in the Security;

(8) impair the right to institute suit for the enforcement of principal of, premium, if any, or principal on any Security pursuant to Sections 6.07 or 6.08, except as limited by Section 6.06; or

(9) make any change in Section 6.04 or Section 6.07 or in this sentence of this Section 9.02.

The right of any Holder to participate in any consent required or sought pursuant to any provision of this Indenture (and the obligation of the Company to obtain any such consent otherwise required from such Holder) may be subject to the requirement that such Holder shall have been the Holder of record of any Securities with respect to which such consent is required or sought as of a date identified by the Trustee in a notice furnished to Holders in accordance with the terms of this Indenture.

SECTION 9.03. Compliance with Trust Indenture Act. Every amendment to or supplement of this Indenture or the Securities shall comply with the TIA as then in effect.

SECTION 9.04. Revocation and Effect of Consents. A consent to an amendment, supplement or waiver by a Holder of a Security shall bind the Holder and every subsequent Holder of a Security or portion of a Security that evidences the same debt as the consenting Holder's Security, even if notation of the consent is not made on any Security. However, until an amendment, supplement or waiver becomes effective, any such Holder or subsequent Holder may revoke the consent as to its Security or portion of a Security. For such revocation to be effective, the Trustee must receive the notice of revocation before the date the amendment, supplement or waiver becomes effective.

The Company may, but shall not be obligated to, fix a record date for the purpose of determining the Holders entitled to consent to any amendment or waiver. If the Company elects to fix a record date for such purpose, the record date shall be fixed at (i) the later of 30 days prior to the first solicitation of such consent or the date of the most recent list of Holders furnished to the Trustee prior to such solicitation pursuant to Section 2.05, or (ii) such other date as the Company shall designate. If a record date is fixed, then notwithstanding the provisions of the immediately preceding paragraph, those Persons who were

Holders at such record date (or their duly designated proxies), and only those Persons, shall be entitled to consent to such amendment or waiver or to revoke any consent previously given, whether or not such Persons continue to be Holders after such record date. No consent shall be valid or effective for more than 90 days after such record date unless consent from the Holders of the principal amount of Securities required hereunder for such amendment or waiver to be effective also shall have been given and not revoked within such 90-day period.

After an amendment, supplement or waiver becomes effective, it shall bind every Holder unless it makes a change described in any of clauses (1) through (9) of Section 9.02. In that case the amendment, supplement or waiver shall bind each Holder of a Security who has consented to it and every subsequent Holder of a Security or portion of a Security that evidences the same debt as the consenting Holder's Security.

SECTION 9.05. Notation on or Exchange of Senior Notes. If an amendment, supplement or waiver changes the terms of a Security, the Trustee may require the Holder of the Security to deliver it to the Trustee. The Trustee may place an appropriate notation on the Security about the changed terms and return it to the Holder. Alternatively, if the Company or the Trustee so determines, the Company in exchange for the Security shall issue and the Trustee shall authenticate a new Security that reflects the changed terms.

SECTION 9.06. Trustee Protected. The Trustee shall sign any amendment or supplement or waiver authorized pursuant to this Article if the amendment or supplement or waiver does not adversely affect the rights of the Trustee. If it does adversely affect the rights of the Trustee, the Trustee may but need not sign it. In signing such amendment or supplement or waiver the Trustee shall be entitled to receive, and (subject to Article Seven) shall be fully protected in relying upon, an Opinion of Counsel stating that such amendment or supplement or waiver is authorized or permitted by and complies with this Indenture. The Company may not sign an amendment or supplement until the Boards of Directors of the Company and the Subsidiary Guarantors approve it.

ARTICLE TEN

GUARANTEES

SECTION 10.01. Unconditional Guarantee. Each Subsidiary Guarantor hereby, jointly and severally, fully and unconditionally guarantees, as principal obligor and not only as surety (such guarantee to be referred to herein as the "Guarantee"), to each Holder and to the Trustee the due and punctual payment of the principal of, premium, if any, and interest on the Securities and all other amounts due and payable under this Indenture and the Securities by the Company whether at maturity, by acceleration, redemption, repurchase or otherwise, including, without limitation, interest on the overdue principal of, premium, if any, and interest on the Securities, to the extent lawful, all in accordance with the terms hereof and thereof; subject, however, to the limitations set forth in Section 10.05.

Failing payment when due of any amount so guaranteed for whatever reason, the Subsidiary Guarantors will be jointly and severally obligated to pay the same immediately. Each Subsidiary Guarantor hereby agrees that its obligations hereunder shall be unconditional, irrespective of the validity, regularity or enforceability of the Securities or this Indenture, the absence of any action to enforce the same, any waiver or consent by any Holder of the Securities with respect to any provisions hereof or thereof, the recovery of any judgment against the Company, any action to enforce the same or any other circumstance which might otherwise constitute a legal or equitable discharge or defense of a guarantor. Each Subsidiary Guarantor hereby waives diligence, presentment, demand of payment, filing of claims with a court in the event of insolvency or bankruptcy of the Company, any right to require a proceeding first against the Company, protest, notice and all demands whatsoever and covenants that this Guarantee will not be discharged except by complete performance of the obligations contained in the Securities, this Indenture and in this Guarantee. If any Holder or the Trustee is required by any court or otherwise to return to the Company, any Subsidiary Guarantor, or any custodian, trustee, liquidator or other similar official acting in relation to the Company or any Subsidiary Guarantor, any amount paid by the Company or any Subsidiary Guarantor to the Trustee or such Holder, this Guarantee, to the extent theretofore discharged, shall be reinstated in full force and effect. Each Subsidiary Guarantor agrees it shall not be entitled to any right of subrogation in relation to the Holders in respect of any obligations guaranteed hereby until payment in full of all obligations guaranteed hereby. Each Subsidiary Guarantor further agrees that, as between each Subsidiary Guarantor, on the one hand, and the Holders and the Trustee, on the other hand, (x) the maturity of the obligations guaranteed hereby

may be accelerated as provided in Article Six for the purposes of this Guarantee, notwithstanding any stay, injunction or other prohibition preventing such acceleration in respect of the obligations guaranteed hereby, and (y) in the event of any acceleration of such obligations as provided in Article Six, such obligations (whether or not due and payable) shall forthwith become due and payable by each Subsidiary Guarantor for the purpose of this Guarantee.

SECTION 10.02. Subsidiary Guarantors May Consolidate, etc., on Certain Terms. (a) Subject to paragraph (b) of this Section 10.02, no Subsidiary Guarantor may consolidate or merge with or into (whether or not such Subsidiary Guarantor is the surviving Person) another Person unless (i) the Person formed by or surviving any such consolidation or merger (if other than such Subsidiary Guarantor) assumes all the obligations of such Subsidiary Guarantor under this Indenture and the Securities pursuant to a supplemental indenture, in a form reasonably satisfactory to the Trustee, (ii) immediately after such transaction, no Default or Event of Default exists, (iii) such Subsidiary Guarantor or Person formed by or surviving any such consolidation or merger will have Consolidated Tangible Net Worth (immediately after the transaction) equal to or greater than the Consolidated Tangible Net Worth of such Subsidiary Guarantor immediately preceding the transaction and (iv) the Company will, at the time of such transaction after giving pro forma effect thereto as if such transaction had occurred at the beginning of the applicable Reference Period, be permitted to incur at least \$1.00 of additional Indebtedness pursuant to Section 4.09(a). In connection with any consolidation or merger contemplated by this Section 10.02, the Company shall deliver to the Trustee prior to the consummation of the proposed transaction an Officers' Certificate to the foregoing effect and an Opinion of Counsel stating that the proposed transaction and such supplemental indenture comply with this Indenture. This Section 10.02(a) will not prohibit a merger between Subsidiary Guarantors or a merger between the Company and a Subsidiary Guarantor.

(b) In the event of a sale or other disposition of all or substantially all of the assets of any Subsidiary Guarantor or a sale or other disposition of all of the Capital Stock of such Subsidiary Guarantor, in any case by way of merger, consolidation or otherwise, then such Subsidiary Guarantor (in the event of a sale or other disposition, by way of such a merger, consolidation or otherwise, of all of the Capital Stock of such Subsidiary Guarantor) or the Person acquiring the assets (in the event of a sale or other disposition of all or substantially all of

the assets of such Subsidiary Guarantor) will be released and relieved of any obligations under its Guarantees; provided that in the event such sale or disposition constitutes an Asset Sale, the Net Available Proceeds of such sale or other disposition are applied in accordance with the provisions of this Indenture described under Section 4.11.

SECTION 10.03. Addition of Subsidiary Guarantors. (a) The Company agrees to cause each Subsidiary that shall become a Restricted Subsidiary after the Issue Date to execute and deliver a supplemental indenture pursuant to which such Restricted Subsidiary shall guarantee the payment of the Securities pursuant to the terms hereof.

(b) Any Person that was not a Subsidiary Guarantor on the Issue Date may become a Subsidiary Guarantor by executing and delivering to the Trustee (i) a supplemental indenture in form and substance satisfactory to the Trustee, which subjects such Person to the provisions (including the representations and warranties) of this Indenture as a Subsidiary Guarantor and (ii) an Opinion of Counsel and Officers' Certificate to the effect that such supplemental indenture has been duly authorized and executed by such Person and constitutes the legal, valid and binding obligation of such Person (subject to such customary exceptions concerning creditors' rights and equitable principles as may be acceptable to the Trustee in its discretion and provided that no opinion need be rendered concerning the enforceability of the Guarantee).

SECTION 10.04. Release of a Subsidiary Guarantor. Upon (i) the sale or disposition of a Subsidiary Guarantor (or all or substantially all of its assets) or (ii) the designation of a Subsidiary Guarantor as an Unrestricted Subsidiary, in each case which is otherwise in compliance with the terms of this Indenture, including but not limited to the provisions of Section 10.02, such Subsidiary Guarantor shall be deemed released from all of its Guarantee and related obligations in this Indenture without any further action by the Trustee, the Company or such Subsidiary Guarantor. Subject to Section 8.07, upon the Company's election, in compliance with the conditions set forth in Article Eight hereof, to exercise its rights pursuant to either Section 8.02 or 8.03 with respect to all outstanding Securities, each Subsidiary Guarantor shall be deemed released from all of its Guarantee and related obligations in this Indenture without any further action by the Trustee, the Company or any Subsidiary Guarantor. The Trustee shall deliver an appropriate instrument evidencing such release upon receipt of a request by the Company accompanied by an

Officers' Certificate and, in the case of the release of a Subsidiary Guarantor pursuant to clause (i) of the first sentence of this Section 10.04, an Opinion of Counsel certifying that such sale or other disposition was made by the Company in accordance with the provisions of this Indenture. Any Subsidiary Guarantor not so released remains liable for the full amount of principal of and interest on the Securities as provided in this Article Ten.

SECTION 10.05. Limitation of Subsidiary Guarantor's Liability. Each Subsidiary Guarantor, and by its acceptance hereof each Holder, hereby confirms that it is the intention of all such parties that the guarantee by such Subsidiary Guarantor pursuant to its Guarantee not constitute a fraudulent transfer or conveyance for purposes of any federal, state or foreign law. To effectuate the foregoing intention, the Holders and each Subsidiary Guarantor hereby irrevocably agree that the obligations of each Subsidiary Guarantor under the Guarantee shall be limited to the maximum amount as will, after giving effect to all other contingent and fixed liabilities of such Subsidiary Guarantor and after giving effect to any collections from or payments made by or on behalf of any other Subsidiary Guarantor in respect of the obligations of such other Subsidiary Guarantor under its Guarantee or pursuant to Section 10.06, result in the obligations of such Subsidiary Guarantor under the Guarantee not constituting a fraudulent conveyance or fraudulent transfer under federal, state or foreign law. This Section 10.05 is for the benefit of the creditors of each Subsidiary Guarantor, and, for purposes of applicable fraudulent transfer and fraudulent conveyance law, any Indebtedness of a Subsidiary Guarantor pursuant to Credit Facilities shall be deemed to have been incurred prior to the incurrence by such Subsidiary Guarantor of its liability under the Guarantee.

SECTION 10.06. Contribution. In order to provide for just and equitable contribution among the Subsidiary Guarantors, the Subsidiary Guarantors agree, inter se, that in the event any payment or distribution is made by any Subsidiary Guarantor (a "Funding Guarantor") under the Guarantee, such Funding Guarantor shall be entitled to a contribution from each other Subsidiary Guarantor in a pro rata amount based on the Adjusted Net Assets of each Subsidiary Guarantor (including the Funding Guarantor) for all payments, damages and expenses incurred by the Funding Guarantor in discharging the Company's obligations with respect to the Securities or any other Subsidiary Guarantor's obligations with respect to the Guarantee.

SECTION 10.07. [Intentionally Omitted.]

SECTION 10.08. Severability. In case any provision of this Guarantee shall be invalid, illegal or unenforceable, that portion of such provision that is not invalid, illegal or unenforceable shall remain in effect, and the validity, legality, and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

ARTICLE ELEVEN

MISCELLANEOUS

SECTION 11.01. Trust Indenture Act Controls. Whether prior to or following the qualification of this Indenture under the TIA, if any provision of this Indenture limits, qualifies, or conflicts with the duties imposed by operation of TIA Section 318(c) upon an indenture qualified under the TIA, the imposed duties shall control under this Indenture.

SECTION 11.02. Notices. Any notice or communication shall be sufficiently given if in writing and delivered in person or mailed by certified or registered mail (return receipt requested), facsimile, telecopier or overnight air courier guaranteeing next day delivery, addressed as follows:

If to the Company or any Subsidiary Guarantor:

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

Attention: Chief Financial Officer

If to the Trustee:

The Bank of New York
101 Barclay Street
8th Floor
New York, New York 10286

Attention: Corporate Trust Department

The Company or any Subsidiary Guarantor or the Trustee by notice to the other may designate additional or different addresses for subsequent notices or communications.

All notices and communications shall be deemed to have been duly given: at the time delivered by hand, if personally delivered; five Business Days after being deposited in the mail, postage prepaid, if mailed; when

receipt acknowledged, if faxed or telecopied; and the next Business Day after timely delivery to the courier, if sent by overnight air courier guaranteeing next day delivery.

Any notice or communication mailed to a Holder shall be mailed by first-class mail to the address for such Holder appearing on the registration books of the Registrar and shall be sufficiently given to such Holder if so mailed within the time prescribed. Failure to mail a notice or communication to a Holder or any defect in it shall not affect its sufficiency with respect to other Holders.

If a notice or communication is mailed in the manner provided above, it is duly given, whether or not the addressee receives it. If the Company or any Subsidiary Guarantor mails notice or communications to Holders, it shall mail a copy to the Trustee and each Agent at the same time.

SECTION 11.03. Communication by Holders with Other Holders. Holders may communicate pursuant to TIA Section 312(b) with other Holders with respect to their rights under this Indenture or the Securities. The Company, the Subsidiary Guarantors, the Trustee, the Registrar and anyone else shall have the protection of TIA Section 312(c).

SECTION 11.04. Certificate and opinion as to Conditions Precedent. Upon any request or application by the Company or any Subsidiary Guarantor to the Trustee to take any action under this Indenture, the Company or such Subsidiary Guarantor, as the case may be, shall furnish to the Trustee:

(1) an Officers' Certificate (which shall include the statements set forth in Section 11.05) stating that, in the opinion of the signers, the conditions precedent, if any, provided for in this Indenture relating to the proposed action have been complied with; and

(2) an Opinion of Counsel stating that, in the opinion of such counsel, such conditions precedent have been complied with.

SECTION 11.05. Statements Required in Certificate or Opinion. Each certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture shall include:

(1) a statement that each person making such certificate or opinion has read such covenant or condition;

(2) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based;

(3) a statement that, in the opinion of each such person, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to whether or not such covenant or condition has been complied with; and

(4) a statement as to whether or not, in the opinion of each such person, such covenant or condition has been complied with.

SECTION 11.06. Rules by Trustee and Agents. The Trustee may make reasonable rules for actions taken by, or meetings or consents of, Holders. The Registrar or Paying Agent may make reasonable rules for its functions.

SECTION 11.07. Legal Holidays. A "Legal Holiday" is a Saturday, a Sunday, or a day on which banks and trust companies in the City of New York are not required by law or executive order to be open. If a payment date is a Legal Holiday at a place of payment, payment may be made at the place on the next succeeding day that is not a Legal Holiday, without additional interest.

SECTION 11.08. Governing Law. THIS INDENTURE AND THE SECURITIES AND THE GUARANTEES SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT GIVING EFFECT TO APPLICABLE PRINCIPLES OF CONFLICTS OF LAWS TO THE EXTENT THAT THE APPLICATION OF THE LAW OF ANOTHER JURISDICTION WOULD BE REQUIRED THEREBY, EXCEPT TO THE EXTENT THAT THE LAWS OF THE STATE OF NEW YORK WOULD REQUIRE THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION REGARDING THE VALIDITY OF THE SECURITIES.

SECTION 11.09. No Adverse Interpretation of Other Agreements. This Indenture may not be used to interpret another indenture, loan or debt agreement of the Company, any Subsidiary Guarantor or any other Subsidiary. Any such indenture, loan or debt agreement may not be used to interpret this Indenture.

SECTION 11.10. No Recourse Against Others. All liability described in Paragraph 22 of the Securities of any director, officer, employee or stockholder, as such, of the Company, the Subsidiary Guarantors or the Trustee is waived and released.

SECTION 11.11. Successors. All agreements of the Company and the Subsidiary Guarantors in this Indenture, the Securities and the Guarantees shall bind their respective successors. All agreements of the Trustee in this Indenture shall bind its successor.

SECTION 11.12. Duplicate Originals. The parties may sign any number of copies of this Indenture. Each signed copy shall be an original, but all of them together represent the same instrument.

SECTION 11.13. Severability. In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby, and a Holder shall have no claim therefor against any party hereto.

SIGNATURES

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed as of the date first written above.

CHESAPEAKE ENERGY CORPORATION

By: /s/ Marcus C. Rowland

 Name: Marcus C. Rowland
 Title: Executive Vice President
 and Chief Financial Officer

SUBSIDIARY GUARANTORS:

THE AMES COMPANY, L.L.C.
 CHESAPEAKE ACQUISITION, L.L.C.
 CHESAPEAKE ROYALTY, L.L.C.
 NOMAC DRILLING CORPORATION
 CHESAPEAKE ENERGY LOUISIANA CORPORATION
 CHESAPEAKE OPERATING, INC.
 CHESAPEAKE MOUNTAIN FRONT, L.L.C.
 GOTHIC ENERGY, L.L.C.
 GOTHIC PRODUCTION, L.L.C.
 CARMEN ACQUISITION, L.L.C.
 SAP ACQUISITION, L.L.C.
 CHESAPEAKE KNAN ACQUISITION, L.L.C.
 CHESAPEAKE ENO ACQUISITION, L.L.C.
 CHESAPEAKE EP CORPORATION
 CHESAPEAKE DELTA CORP.
 CHESAPEAKE FOCUS, L.L.C.
 CHESAPEAKE ORC, L.L.C.

By: /s/ Marcus C. Rowland

 Name: Marcus C. Rowland
 Title: Vice President

CHESAPEAKE EXPLORATION LIMITED
 PARTNERSHIP
 CHESAPEAKE LOUISIANA, L.P.
 CHESAPEAKEPANHANDLE LIMITED
 PARTNERSHIP
 CHESAPEAKE-STAGHORN ACQUISITION L. P.

CHESAPEAKE SIGMA, L.P.

By Chesapeake Operating, Inc., as
general partner of each respective
entity

By: /s/ Marcus C. Rowland

Name: Marcus C. Rowland
Title: Vice President

THE BANK OF NEW YORK, as Trustee

By: /s/ Louis P. Young

Name: Louis P. Young

RULE 144A/REGULATION S APPENDIX

PROVISIONS RELATING TO INITIAL SECURITIES,
PRIVATE EXCHANGE SECURITIES
AND EXCHANGE SECURITIES

1. Definitions

1.1 Definitions

For the purposes of this Appendix the following terms shall have the meanings indicated below:

"Depository" means The Depository Trust Company, its nominees and their respective successors.

"Exchange Securities" means (1) the 7.50% Senior Notes due 2013 issued pursuant to the Indenture in connection with the Registered Exchange Offer pursuant to a Registration Rights Agreement and (2) Additional Securities, if any, issued pursuant to a registration statement filed with the SEC under the Securities Act.

"Initial Purchasers" means (1) with respect to the Initial Securities issued on the Issue Date, collectively, Salomon Smith Barney Inc., Bear, Stearns & Co. Inc., Credit Suisse First Boston LLC, Lehman Brothers Inc., Morgan Stanley & Co. Incorporated, BNP Paribas Securities Corp., Credit Lyonnais Securities (USA) Inc. and TD Securities (USA) Inc. and (2) with respect to each issuance of Additional Securities, the Persons purchasing such Additional Securities under the related Purchase Agreement.

"Initial Securities" means (1) \$300 million aggregate principal amount of 7.50% Senior Notes due 2013 issued on the Issue Date and (2) Additional Securities, if any, issued in one or more transactions exempt from the registration requirements of the Securities Act.

"Private Exchange" means the offer by the Company, pursuant to a Registration Rights Agreement, to the Initial Purchasers to issue and deliver to each Initial Purchaser, in exchange for the Initial Securities held by the Initial Purchaser as part of its initial distribution, a like aggregate principal amount of Private Exchange Securities.

"Private Exchange Securities" means any 7.50% Senior Notes due 2013 issued in connection with a Private Exchange.

"Purchase Agreement" means (1) with respect to the Initial Securities issued on the Issue Date, the Purchase Agreement dated February 28, 2003, among the Company, the Subsidiary Guarantors and the Initial Purchasers, and (2) with respect to each issuance of Additional Securities, the purchase agreement or underwriting agreement among the Company, the Subsidiary Guarantors and the Persons purchasing such Additional Securities.

"QIB" means a "qualified institutional buyer" as defined in Rule 144A.

"Registered Exchange Offer" means the offer by the Company, pursuant to a Registration Rights Agreement, to certain Holders of Initial Securities, to issue and deliver to such Holders, in exchange for the Initial Securities, a like aggregate principal amount of Exchange Securities registered under the Securities Act.

"Registration Rights Agreement" means (1) with respect to the Initial Securities issued on the Issue Date, the Registration Rights Agreement dated March 5, 2003, among the Company, the Subsidiary Guarantors and the Initial Purchasers, and (2) with respect to each issuance of Additional Securities issued in a transaction exempt from the registration requirements of the Securities Act, the registration rights agreement, if any, among the Company, the Subsidiary Guarantors and the Persons purchasing such Additional Securities under the related Purchase Agreement.

"Securities" means the Initial Securities, the Exchange Securities and the Private Exchange Securities, treated as a single class.

"Securities Act" means the Securities Act of 1933, as amended.

"Securities Custodian" means the custodian with respect to a Global Security (as appointed by the Depository), or any successor Person thereto and shall initially be the Trustee.

"Shelf Registration Statement" means the registration statement issued by the Company in connection with the offer and sale of Initial Securities or Private Exchange Securities pursuant to a Registration Rights Agreement.

"Transfer Restricted Securities" means Securities that bear or are required to bear the legend set forth in Section 2.3(b) hereto.

1.2 Other Definitions

Term - - - - -	Defined in Section: -----
"Agent Members".....	2.1(b)
"Global Security".....	2.1(a)
"Regulation S".....	2.1(a)
"Restricted Global Security".....	2.1(a)
"Rule 144A".....	2.1(a)

2. The Securities.

2.1 (a) Form and Dating. Initial Securities offered and sold to a QIB in reliance on Rule 144A under the Securities Act ("Rule 144A") or in reliance on Regulation S under the Securities Act ("Regulation S"), in each case as provided in a Purchase Agreement, and Private Exchange Securities, as provided in a Registration Rights Agreement, shall be issued initially in the form of one or more permanent global Securities in definitive, fully registered form without interest coupons with the global securities legend and restricted securities legend set forth in Exhibit 1 hereto (each, a "Restricted Global Security"), which shall be deposited on behalf of the purchasers of the Initial Securities represented thereby with the Trustee, at its principal corporate trust office, as Securities Custodian, and registered in the name of the Depository or a nominee of the Depository, duly executed by the Company and authenticated by the Trustee as hereinafter provided. The aggregate principal amount of the Global Securities may from time to time be increased or decreased by adjustments made on the records of the Trustee and the Depository or its nominee as hereinafter provided. Exchange Securities shall be issued in global form (with the global securities legend set forth in Exhibit 1 hereto) or in certificated form at the option of the Holders thereof from time to time. Exchange Securities issued in global form and Restricted Global Securities are sometimes referred to in this Appendix as "Global Securities."

(b) Book-Entry Provisions. This Section 2.1(b) shall apply only to a Global Security deposited with or on behalf of the Depository.

The Company shall execute and the Trustee shall, in accordance with this Section 2.1(b), authenticate and deliver initially one or more Global Securities that (a) shall be registered in the name of the Depository for such Global Security or Global Securities or the nominee of such Depository and (b) shall be delivered by the Trustee to such Depository or pursuant to such Depository's instructions or held by the Trustee as Securities Custodian.

Members of, or participants in, the Depository ("Agent Members") shall have no rights under this Indenture with respect to any Global Security held on their behalf by the Depository or by the Trustee as Securities Custodian or under such Global Security, and the Company, the Trustee and any agent of the Company or the Trustee shall be entitled to treat the Depository as the absolute owner of such Global Security for all purposes whatsoever. Notwithstanding the foregoing, nothing herein shall prevent the Company, the Trustee or any agent of the Company or the Trustee from giving effect to any written certification, proxy or other authorization furnished by the Depository or impair, as between the Depository and its Agent Members, the operation of customary practices of such Depository governing the exercise of the rights of a holder of a beneficial interest in any Global Security.

(c) Certificated Securities. Except as provided in this Section 2.1 or Section 2.3 or 2.4, owners of beneficial interests in Restricted Global Securities shall not be entitled to receive physical delivery of certificated Securities.

2.2 Authentication. The Trustee shall authenticate and deliver: (1) on the Issue Date, an aggregate principal amount of \$300 million 7.50% Senior Notes due 2013, (2) from time to time after the Issue Date, any Additional Securities for an original issue in an aggregate principal amount specified in the written order of the Company pursuant to Section 2.02 of the Indenture and (3) Exchange Securities or Private Exchange Securities for issue only in a Registered Exchange Offer or a Private Exchange, respectively, pursuant to a Registration Rights Agreement, for a like principal amount of Initial Securities, in each case upon a written order of the Company signed by two Officers or by an Officer and either the Secretary, an Assistant Treasurer or an Assistant Secretary of the Company. Such order shall specify the amount of the Securities to be authenticated and the date on which the original issue of Securities is to be authenticated and, in the case of any issuance of Additional Securities pursuant to Section 2.13 of the Indenture, shall

certify that such issuance is in compliance with Section 4.09(a) of the Indenture.

2.3 Transfer and Exchange.

(a) Transfer and Exchange of Global Securities. (i) The transfer and exchange of Global Securities or beneficial interests therein shall be effected through the Depository, in accordance with this Indenture (including applicable restrictions on transfer set forth herein, if any) and the procedures of the Depository therefor. A transferor of a beneficial interest in a Global Security shall deliver to the Registrar a written order given in accordance with the Depository's procedures containing information regarding the participant account of the Depository to be credited with a beneficial interest in the Global Security. The Registrar shall, in accordance with such instructions instruct the Depository to credit to the account of the Person specified in such instructions a beneficial interest in the Global Security and to debit the account of the Person making the transfer the beneficial interest in the Global Security being transferred.

(ii) Notwithstanding any other provisions of this Appendix (other than the provisions set forth in Section 2.4), a Global Security may not be transferred as a whole except by the Depository to a nominee of the Depository or by a nominee of the Depository to the Depository or another nominee of the Depository or by the Depository or any such nominee to a successor Depository or a nominee of such successor Depository.

(iii) In the event that a Restricted Global Security is exchanged for Securities in certificated registered form pursuant to Section 2.4 of this Appendix, prior to the consummation of a Registered Exchange Offer or the effectiveness of a Shelf Registration Statement with respect to such Securities, such Securities may be exchanged only in accordance with such procedures as are substantially consistent with the provisions of this Section 2.3 (including the certification requirements set forth on the reverse of the Initial Securities intended to ensure that such transfers comply with Rule 144A or Regulation S, as the case may be) and such other procedures as may from time to time be adopted by the Company.

(b) Legend.

(i) Except as permitted by the following paragraphs (ii), (iii) and (iv), until the expiration of

the applicable holding period with respect to the Securities set forth in Rule 144(k) of the Securities Act, each Security certificate evidencing the Restricted Global Securities (and all Securities issued in exchange therefor or in substitution thereof) shall bear a legend in substantially the following form:

THIS SECURITY (OR ITS PREDECESSOR) WAS ORIGINALLY ISSUED IN A TRANSACTION EXEMPT FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933 (THE "SECURITIES ACT"), AND THIS SECURITY MAY NOT BE OFFERED, SOLD OR OTHERWISE TRANSFERRED IN THE ABSENCE OF SUCH REGISTRATION OR AN APPLICABLE EXEMPTION THEREFROM. EACH PURCHASER OF THIS SECURITY IS HEREBY NOTIFIED THAT THE SELLER OF THIS SECURITY MAY BE RELYING ON THE EXEMPTION FROM THE PROVISIONS OF SECTION 5 OF THE SECURITIES ACT PROVIDED BY RULE 144A THEREUNDER.

THE HOLDER OF THIS SECURITY AGREES FOR THE BENEFIT OF THE COMPANY THAT (A) THIS NOTE MAY BE OFFERED, RESOLD, PLEDGED OR OTHERWISE TRANSFERRED, ONLY (I) THE COMPANY, (II) IN THE UNITED STATES TO A PERSON WHOM THE SELLER REASONABLY BELIEVES IS A QUALIFIED INSTITUTIONAL BUYER (AS DEFINED IN RULE 144A UNDER THE SECURITIES ACT) IN A TRANSACTION MEETING THE REQUIREMENTS OF RULE 144A, (III) OUTSIDE THE UNITED STATES IN AN OFFSHORE TRANSACTION IN ACCORDANCE WITH RULE 904 UNDER THE SECURITIES ACT, (IV) PURSUANT TO EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT PROVIDED BY RULE 144 THEREUNDER (IF AVAILABLE) OR (V) PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT, IN EACH OF CASES (I) THROUGH (V) IN ACCORDANCE WITH ANY APPLICABLE SECURITIES LAWS OF ANY STATE OF THE UNITED STATES, AND (B) THE HOLDER WILL, AND EACH SUBSEQUENT HOLDER IS REQUIRED TO, NOTIFY ANY PURCHASER OF THIS SECURITY FROM IT OF THE RESALE RESTRICTIONS REFERRED TO IN (A) ABOVE.

(ii) Upon any sale or transfer of a Transfer Restricted Security (including any Transfer Restricted Security represented by a Restricted Global Security) pursuant to Rule 144 under the Securities Act, the Registrar shall permit the transferee thereof to exchange such Transfer Restricted Security for a certificated Security that does not bear the legend set forth above and rescind any restriction on the transfer of such Transfer Restricted Security, if the transferor thereof certifies in writing to the Registrar that such

sale or transfer was made in reliance on Rule 144 (such certification to be in the form set forth on the reverse of the Security).

(iii) After a transfer of any Initial Securities or Private Exchange Securities pursuant to and during the period of the effectiveness of a Shelf Registration Statement with respect to such Initial Securities or Private Exchange Securities, as the case may be, all requirements pertaining to legends on such Initial Security or such Private Exchange Security will cease to apply, the requirements requiring any such Initial Security or such Private Exchange Security issued to certain Holders be issued in global form will cease to apply, and a certificated Initial Security or Private Exchange Security or an Initial Security or Private Exchange Security in global form, in each case without restrictive transfer legends, will be available to the transferee of the Holder of such Initial Securities or Private Exchange Securities upon exchange of such transferring Holder's certificated Initial Security or Private Exchange Security or directions to transfer such Holder's interest in the Global Security, as applicable.

(iv) Upon the consummation of a Registered Exchange Offer with respect to the Initial Securities, all requirements pertaining to such Initial Securities that Initial Securities issued to certain Holders be issued in global form will still apply with respect to Holders of such Initial Securities that do not exchange their Initial Securities, and Exchange Securities in certificated or global form will be available to Holders that exchange such Initial Securities in such Registered Exchange Offer.

(v) Upon the consummation of a Private Exchange with respect to the Initial Securities, all requirements pertaining to such Initial Securities that Initial Securities issued to certain Holders be issued in global form will still apply with respect to Holders of such Initial Securities that do not exchange their Initial Securities, and Private Exchange Securities in global form with the global securities legend and the Restricted Securities Legend set forth in Exhibit 1 hereto will be available to Holders that exchange such Initial Securities in such Private Exchange.

(c) Cancellation or Adjustment of Global Security. At such time as all beneficial interests in a Global Security have either been exchanged for certificated Securities,

redeemed, purchased or canceled, such Global Security shall be returned to the Depository for cancellation or retained and canceled by the Trustee. At any time prior to such cancellation, if any beneficial interest in a Global Security is exchanged for certificated Securities, redeemed, purchased or canceled, the principal amount of Securities represented by such Global Security shall be reduced and an adjustment shall be made on the books and records of the Trustee (if it is then the Securities Custodian for such Global Security) with respect to such Global Security, by the Trustee or the Securities Custodian, to reflect such reduction.

(d) Obligations with Respect to Transfers and Exchanges of Securities.

(i) To permit registrations of transfers and exchanges, the Company shall execute and the Trustee shall authenticate certificated Securities and Global Securities at the Registrar's or co-registrar's request.

(ii) No service charge shall be made for any registration of transfer or exchange, but the Company may require payment of a sum sufficient to cover any transfer tax, assessments, or similar governmental charge payable in connection therewith (other than any such transfer taxes, assessments or similar governmental charge payable upon exchange or transfer pursuant to Sections 3.06 and 4.16 of the Indenture).

(iii) The Registrar or co-registrar shall not be required to register the transfer of or exchange of any Security for a period beginning 15 Business Days before the mailing of a notice of an offer to repurchase or redeem Securities or 15 Business Days before an interest payment date.

(iv) Prior to the due presentation for registration of transfer of any Security, the Company, the Trustee, the Paying Agent, the Registrar or any co-registrar may deem and treat the person in whose name a Security is registered as the absolute owner of such Security for the purpose of receiving payment of principal of and interest on such Security and for all other purposes whatsoever, whether or not such Security is overdue, and none of the Company, the Trustee, the Paying Agent, the Registrar or any co-registrar shall be affected by notice to the contrary.

(v) All Securities issued upon any transfer or exchange pursuant to the terms of this Indenture shall

evidence the same debt and shall be entitled to the same benefits under this Indenture as the Securities surrendered upon such transfer or exchange.

(e) No Obligation of the Trustee.

(i) The Trustee shall have no responsibility or obligation to any beneficial owner of a Global Security, Agent Member or other Person with respect to the accuracy of the records of the Depository or its nominee or of any Agent Member, with respect to any ownership interest in the Securities or with respect to the delivery to any Agent Member, beneficial owner or other Person (other than the Depository) of any notice (including any notice of redemption) or the payment of any amount, under or with respect to such Securities. All notices and communications to be given to the Holders and all payments to be made to Holders under the Securities shall be given or made only to or upon the order of the registered Holders (which shall be the Depository or its nominee in the case of a Global Security). The rights of beneficial owners in any Global Security shall be exercised only through the Depository subject to the applicable rules and procedures of the Depository. The Trustee may rely and shall be fully protected in relying upon information furnished by the Depository with respect to its Agent Member and any beneficial owners.

(ii) The Trustee shall have no obligation or duty to monitor, determine or inquire as to compliance with any restrictions on transfer imposed under this Indenture or under applicable law with respect to any transfer of any interest in any Security (including any transfers between or among Agent Members or beneficial owners in any Global Security) other than to require delivery of such certificates and other documentation or evidence as are expressly required by, and to do so if and when expressly required by, the terms of this Indenture, and to examine the same to determine substantial compliance as to form with the express requirements hereof.

2.4 Certificated Securities.

(a) A Restricted Global Security deposited with the Depository or with the Trustee as Securities Custodian pursuant to Section 2.1 shall be transferred to the beneficial owners thereof in the form of certificated Securities in an aggregate principal amount

equal to the principal amount of such Global Security, in exchange for such Global Security, only if such transfer complies with Section 2.3 and (i) the Depository notifies the Company that it is unwilling or unable to continue as Depository for such Restricted Global Security or if at any time such Depository ceases to be a "clearing agency" registered under the Exchange Act and a successor depository is not appointed by the Company within 90 days of such notice or (ii) an event of default has occurred and is continuing or (iii) the Company, in its sole discretion, notifies the Trustee in writing that it elects to cause the issuance of certificated Securities under this Indenture.

(b) Any Restricted Global Security that is transferable to the beneficial owners thereof pursuant to this Section shall be surrendered by the Depository to the Trustee located at its principal corporate trust office in the Borough of Manhattan, The City of New York, to be so transferred, in whole or from time to time in part, without charge, and the Trustee shall authenticate and deliver, upon such transfer of each portion of such Restricted Global Security, an equal aggregate principal amount of certificated Initial Securities of authorized denominations. Any portion of a Restricted Global Security transferred pursuant to this Section shall be executed, authenticated and delivered only in denominations of \$1,000 principal amount and any integral multiple thereof and registered in such names as the Depository shall direct. Any certificated Initial Security or Private Exchange Security delivered in exchange for an interest in the Restricted Global Security shall, except as otherwise provided by Section 2.3(b), bear the restricted securities legend set forth in Exhibit 1 hereto.

(c) Subject to the provisions of Section 2.4(b), the registered Holder of a Global Security shall be entitled to grant proxies and otherwise authorize any Person, including Agent Members and Persons that may hold interests through Agent Members, to take any action which a Holder is entitled to take under this Indenture or the Securities.

(d) In the event of the occurrence of any of the events specified in Section 2.4(a), the Company shall promptly make available to the Trustee a reasonable supply of certificated Securities in definitive, fully registered form without interest coupons.

EXHIBIT 1
to
RULE 144A/REGULATION S APPENDIX

[FACE OF INITIAL SECURITY]

[Global Securities Legend]

UNLESS THIS CERTIFICATE IS PRESENTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITORY TRUST COMPANY, A NEW YORK CORPORATION ("DTC"), NEW YORK, NEW YORK, TO THE COMPANY OR ITS AGENT FOR REGISTRATION OF TRANSFER, EXCHANGE OR PAYMENT, AND ANY CERTIFICATE ISSUED IS REGISTERED IN THE NAME OF CEDE & CO. OR SUCH OTHER NAME AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC (AND ANY PAYMENT IS MADE TO CEDE & CO., OR TO SUCH OTHER ENTITY AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC) ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL INASMUCH AS THE REGISTERED OWNER HEREOF, CEDE & CO., HAS AN INTEREST HEREIN.

TRANSFERS OF THIS GLOBAL SECURITY SHALL BE LIMITED TO TRANSFERS IN WHOLE, BUT NOT IN PART, TO NOMINEES OF DTC OR TO A SUCCESSOR THEREOF OR SUCH SUCCESSOR'S NOMINEE AND TRANSFERS OF PORTIONS OF THIS GLOBAL SECURITY SHALL BE LIMITED TO TRANSFERS MADE IN ACCORDANCE WITH THE RESTRICTIONS SET FORTH IN THE INDENTURE REFERRED TO ON THE REVERSE HEREOF.

[Restricted Securities Legend]

THIS SECURITY (OR ITS PREDECESSOR) WAS ORIGINALLY ISSUED IN A TRANSACTION EXEMPT FROM REGISTRATION UNDER THE SECURITIES ACT OF 1933 (THE "SECURITIES ACT"), AND THIS SECURITY MAY NOT BE OFFERED, SOLD OR OTHERWISE TRANSFERRED OF IN THE ABSENCE OF SUCH REGISTRATION OR AN APPLICABLE EXEMPTION THEREFROM. EACH PURCHASER OF THIS SECURITY IS HEREBY NOTIFIED THAT THE SELLER OF THIS SECURITY MAY BE RELYING ON THE EXEMPTION FROM THE PROVISIONS OF SECTION 5 OF THE SECURITIES ACT PROVIDED BY RULE 144A THEREUNDER.

THE HOLDER OF THIS SECURITY AGREES FOR THE BENEFIT OF THE COMPANY THAT (A) THIS NOTE MAY BE OFFERED, RESOLD, PLEDGED OR OTHERWISE TRANSFERRED, ONLY TO (I) THE COMPANY, (II) IN THE UNITED STATES TO A PERSON WHOM THE SELLER REASONABLY BELIEVES IS A QUALIFIED INSTITUTIONAL BUYER (AS DEFINED IN RULE 144A UNDER THE SECURITIES ACT) IN A TRANSACTION MEETING THE REQUIREMENTS OF RULE 144A, (III) OUTSIDE THE UNITED STATES IN AN OFFSHORE TRANSACTION IN

ACCORDANCE WITH RULE 904 UNDER THE SECURITIES ACT, (IV) PURSUANT TO AN EXEMPTION FROM REGISTRATION UNDER THE SECURITIES ACT PROVIDED BY RULE 144 THEREUNDER (IF AVAILABLE) OR (V) PURSUANT TO AN EFFECTIVE REGISTRATION STATEMENT UNDER THE SECURITIES ACT, IN EACH OF CASES (I) THROUGH (V) IN ACCORDANCE WITH ANY APPLICABLE SECURITIES LAWS OF ANY STATE OF THE UNITED STATES, AND (B) THE HOLDER WILL, AND EACH SUBSEQUENT HOLDER IS REQUIRED TO, NOTIFY ANY PURCHASER OF THIS SECURITY FROM IT OF THE RESALE RESTRICTIONS REFERRED TO IN (A) ABOVE.

No.
\$

CUSIP NO.
ISIN NO.

7.50% Senior Notes due 2013

Chesapeake Energy Corporation, an Oklahoma corporation, promises to pay to CEDE & CO., or registered assigns, the principal sum of ----- Dollars on September 15, 2013.

Interest Payment Dates: March 15 and September 15 (commencing September 15, 2003/1/)

Record Dates: March 1 and September 1

Additional provisions of this Security are set forth on the other side of this Security.

Dated:

CHESAPEAKE ENERGY CORPORATION

by -----
Name:
Title:

by -----
Name:
Title:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

THE BANK OF NEW YORK,
as Trustee, certifies that this is one of the Securities referred to in the Indenture.

by -----

/1/ Or such later date as is appropriate in the case of Additional Securities.

Authorized Signatory

[REVERSE SIDE OF INITIAL SECURITY]

7.50% Senior Note due 2013

1. Interest

Chesapeake Energy Corporation, an Oklahoma corporation (such corporation, and its successors and assigns under the Indenture hereinafter referred to, being herein called the "Company"), promises to pay interest on the principal amount of this Security at the rate per annum shown above; provided, however, that if a Registration Default (as defined in the Registration Rights Agreement) occurs, additional interest will accrue on this Security at a rate of 0.50% per annum (increasing by an additional 0.50% per annum after each consecutive 90-day period that occurs after the date on which such Registration Default occurs up to a maximum additional interest rate of 2.00%) from and including the date on which any such Registration Default shall occur to but excluding the date on which all Registration Defaults have been cured. The Company will pay interest semiannually on March 15 and September 15 of each year, commencing September 15, 2003. Interest on the Securities will accrue from the most recent date to which interest has been paid or, if no interest has been paid, from March 5, 2003. Interest will be computed on the basis of a 360-day year of twelve 30-day months.

2. Method of Payment

The Company will pay interest on the Securities (except defaulted interest) to the Persons who are registered holders of Securities at the close of business on the March 1 or September 1 next preceding the interest payment date even if Securities are canceled after the record date and on or before the interest payment date. Holders must surrender Securities to a Paying Agent to collect principal payments. The Company will pay principal and interest in money of the United States that at the time of payment is legal tender for payment of public and private debts. Payments in respect of the Securities represented by a Global Security (including principal, premium and interest) will be made by wire transfer of immediately available funds to the accounts specified by The Depository Trust Company. The Company will make all payments in respect of a certificated Security (including principal, premium and interest) by mailing a check to the registered address of each Holder thereof; provided, however,

that payments on a certificated Security will be made by wire transfer to a U.S. dollar account maintained by the payee with a bank in the United States if such Holder elects payment by wire transfer by giving written notice to the Trustee or the Paying Agent to such effect designating such account no later than 30 days immediately preceding the relevant due date for payment (or such other date as the Trustee may accept in its discretion).

3. Paying Agent and Registrar

Initially, The Bank of New York, a New York corporation (the "Trustee"), will act as Paying Agent and Registrar. The Company may appoint and change any Paying Agent, Registrar or co-registrar without notice. The Company or any of its domestically incorporated Wholly Owned Subsidiaries may act as Paying Agent, Registrar or co-registrar.

4. Indenture

The Company issued the Securities under an Indenture dated as of March 5, 2003 ("Indenture"), among the Company, the Subsidiary Guarantors and the Trustee. The terms of the Securities include those stated in the Indenture and those made part of the Indenture by reference to the Trust Indenture Act of 1939 (15 U.S.C. (S)(S) 77aaa-77bbb) as in effect on the date of the Indenture (the "Act"). Terms defined in the Indenture and not defined herein have the meanings ascribed thereto in the Indenture. The Securities are subject to all such terms, and Holders are referred to the Indenture and the Act for a statement of those terms.

The Company shall be entitled, subject to its compliance with Section 4.09(a) of the Indenture, to issue Additional Securities pursuant to Section 2.13 of the Indenture. The Initial Securities issued on the Issue Date, any Additional Securities and all Exchange Securities or Private Exchange Securities issued in exchange therefor will be treated as a single class for all purposes under the Indenture.

5. Optional Redemption

The Securities may be redeemed at the option of the Company, in whole or from time to time in part, at any time on or after September 15, 2008, at the redemption prices set forth below (expressed as a percentage of the principal amount of the Securities to be redeemed), together with accrued and unpaid interest on the Securities so redeemed to the

redemption date, if redeemed during the 12-month period commencing on September 15 of the years indicated below:

Year - - - -	Redemption Price -----
2008	103.750%
2009	102.500%
2010	101.250%
2011 and thereafter	100.000%

Any redemption pursuant to this paragraph 5 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

6. Equity Offering Redemption

In the event the Company consummates one or more Equity Offerings on or prior to September 15, 2006, the Company may redeem, in its sole discretion, up to 35% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) with all or a portion of the aggregate net proceeds received by the Company from any such Equity Offering or Equity Offerings at a redemption price of 107.500% of the aggregate principal amount of the Securities so redeemed, plus accrued and unpaid interest on the Securities so redeemed to the redemption date; provided, however, that (i) the date of any such redemption occurs within the 90-day period after the Equity Offering in respect of which such redemption is made and (ii) following each such redemption, at least 65% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) remains outstanding. Any redemption pursuant to this paragraph 6 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

7. Make-Whole Price Redemption

At any time prior to September 15, 2008, the Company may, at its option, redeem all or any portion of the Securities at the "Make-Whole Price" (as defined in the Indenture) plus accrued and unpaid interest on the Securities so redeemed to the date of redemption. Any redemption pursuant to this paragraph 7 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

8. Notice of Redemption

Notice of redemption will be mailed to the Holder's registered address at least 30 days but not more than 60 days before the redemption date to each Holder of Securities to be redeemed. If less than all Securities are to be redeemed, the Trustee shall select pro rata, by lot or, if the Securities are listed on any securities exchange, by any other method that the Trustee considers fair and appropriate and that complies with the requirements of such exchange, the Securities to be redeemed in multiples of \$1,000; provided, however, that no Securities with a principal amount of \$1,000 or less will be redeemed in part. Securities in denominations larger than \$1,000 may be redeemed in part. On and after the redemption date, interest ceases to accrue on Securities or portions of them called for redemption (unless the Company shall default in the payment of the redemption price or accrued interest).

9. Change of Control Offer

In the event of a Change of Control of the Company, the Company shall be required to make an offer to purchase all or any portion of each Holder's Securities, at 101% of the principal amount thereof, plus accrued and unpaid interest to the date of purchase.

10. Net Proceeds Offer

In the event of certain Asset Sales (and Sale/Leaseback Transactions), the Company may be required to make a Net Proceeds Offer to purchase all or any portion of each Holder's Securities, at 100% of the principal amount thereof, plus accrued and unpaid interest to the Net Proceeds Payment Date.

11. Restrictive Covenants

The Indenture imposes certain limitations on, among other things, the ability of the Company to merge or consolidate with any other Person or sell, lease or otherwise transfer all or substantially all of its properties or assets, the ability of the Company or the Restricted Subsidiaries to dispose of assets, to pay dividends and make certain other distributions and payments, to make certain investments or redeem, retire, repurchase or acquire for value shares of Capital Stock, to incur additional Indebtedness or incur encumbrances against certain property and to enter into certain transactions with Affiliates, all subject to certain limitations described in the Indenture.

12. Ranking and Guarantees

The Securities are general senior unsecured obligations of the Company. The Company's obligation to pay principal, premium, if any, and interest with respect to the Securities is unconditionally guaranteed on a senior basis, jointly and severally, by the Subsidiary Guarantors pursuant to Article Ten of the Indenture. Certain limitations to the obligations of the Subsidiary Guarantors are set forth in further detail in the Indenture.

13. Denominations; Transfer; Exchange

The Securities are in registered form without coupons in denominations of \$1,000 principal amount and whole multiples of \$1,000. A Holder may transfer or exchange Securities in accordance with the Indenture. The Registrar may require a Holder, among other things, to furnish appropriate endorsements or transfer documents and to pay any taxes and fees required by law or permitted by the Indenture. The Registrar need not register the transfer of or exchange of any Securities selected for redemption (except, in the case of a Security to be redeemed in part, the portion of the Security not to be redeemed) or any Securities for a period of 15 Business Days before the mailing of a notice of an offer to repurchase or redeem Securities or 15 Business Days before an interest payment date.

14. Persons Deemed Owners

The registered Holder of this Security may be treated as the owner of it for all purposes.

15. Unclaimed Money

If money for the payment of principal or interest remains unclaimed for two years, the Trustee or Paying Agent shall pay the money back to the Company at its request unless an abandoned property law designates another Person. After any such payment, Holders entitled to the money must look only to the Company and not to the Trustee for payment.

16. Discharge and Defeasance

Subject to certain conditions, the Company at any time shall be entitled to terminate some or all of its obligations under the Securities and the Indenture if the Company deposits with the Trustee money or U.S. Government Securities for the payment of principal and interest on the Securities to redemption or maturity, as the case may be.

17. Amendment, Supplement, Waiver

Subject to certain exceptions, the Indenture or the Securities may be amended or supplemented with the consent of the Holders of at least a majority of the outstanding principal amount of the Securities, and any past default or noncompliance with any provision may be waived with the consent of the Holders of a majority in principal amount of the Securities. Without the consent of any Holder, the Company may amend or supplement the Indenture or the Securities to, among other things, cure any ambiguity, defect or inconsistency or to make any change that does not adversely affect the rights of any Holder in any material respect.

19. Successor Corporation

When a successor corporation assumes all the obligations of its predecessor under the Securities and the Indenture, the predecessor corporation will be released from those obligations.

20. Defaults and Remedies

An Event of Default generally is: default by the Company or any Subsidiary Guarantor for 30 days in payment of interest on the Securities; default by the Company or any Subsidiary Guarantor in payment of principal of, or premium, if any, on the Securities; default by the Company or any Subsidiary Guarantor in the deposit of any optional redemption or repurchase payment when due and payable; defaults resulting in acceleration prior to maturity of certain other Indebtedness or resulting from payment defaults under certain other Indebtedness; failure by the Company or any Subsidiary Guarantor for 45 days after notice to comply with any of its other agreements in the Indenture; certain final judgments against the Company or Subsidiaries; a failure of any Guarantee of a Subsidiary Guarantor to be in full force and effect or denial by any Subsidiary Guarantor of its obligations with respect thereto; and certain events of bankruptcy or insolvency. Subject to certain limitations in the Indenture, if an Event of Default occurs and is continuing, the Trustee or the Holders of at least 25% in principal amount of the then outstanding Securities may declare all the Securities to be due and payable immediately, except that in the case of an Event of Default arising from certain events of bankruptcy, insolvency or reorganization, all outstanding Securities shall become due and payable immediately without further action or notice. Holders may not enforce the Indenture or the Securities except as provided in the Indenture. The Trustee may require indemnity satisfactory to it before it enforces the Indenture or the Securities. Subject to certain limitations, Holders of a majority in

principal amount of the Securities may direct the Trustee in its exercise of any trust or power. The Company must furnish an annual compliance certificate to the Trustee.

21. Trustee Dealings with Company and Subsidiary Guarantors

The Trustee under the Indenture, in its individual or any other capacity, may become the owner or pledgee of Securities and may otherwise deal with the Company, the Subsidiary Guarantors or their respective Subsidiaries or Affiliates with the same rights it would have if it were not Trustee.

22. No Recourse Against Others

A director, officer, employee or stockholder, as such, of the Company, any Subsidiary Guarantor or the Trustee shall not have any liability for any obligations of the Company, any Subsidiary Guarantor or the Trustee under the Securities or the Indenture or for any claim based on, in respect of or by reason of, such obligations or their creation. Each Holder by accepting a Security waives and releases all such liability. The waiver and release are part of the consideration for the issue of the Security.

23. Authentication

This Security shall not be valid until the Trustee or an authenticating agent signs the certificate of authentication on the other side of this Security.

24. Abbreviations

Customary abbreviations may be used in the name of a Holder or an assignee, such as: TEN COM (=tenants in common), TEN ENT (=tenants by the entirety), JT TEN (=joint tenants with right of survivorship and not as tenants in common), CUST (=Custodian), and U/G/M/A (=Uniform Gifts to Minors Act).

25. CUSIP Numbers

Pursuant to a recommendation promulgated by the Committee on Uniform Security Identification Procedures, the Company will cause CUSIP numbers to be printed on the Securities as a convenience to Holders of the Securities. No representation is made as to the accuracy of such numbers as printed on the Securities and reliance may be placed only on the other identification numbers printed hereon.

26. Holders' Compliance with Registration Rights Agreement

Each Holder of this Security, by acceptance hereof, acknowledges and agrees to the provisions of the Registration Rights Agreement, including the obligations of the Holders with respect to a registration and the indemnification of the Company to the extent provided therein.

27. Governing Law

THIS SECURITY SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK BUT WITHOUT GIVING EFFECT TO APPLICABLE PRINCIPLES OF CONFLICTS OF LAW TO THE EXTENT THAT THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION WOULD BE REQUIRED THEREBY, EXCEPT TO THE EXTENT THAT THE LAWS OF THE STATE OF NEW YORK WOULD REQUIRE THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION REGARDING THE VALIDITY OF THE SECURITIES.

The Company will furnish to any Holder upon written request and without charge to the Security holder a copy of the Indenture and a copy of the Registration Rights Agreement. Requests may be made to:

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

Attention: Chief Financial Officer

ASSIGNMENT FORM

To assign this Security, fill in the form below:

I or we assign and transfer this Security to

(Print or type assignee's name, address and zip code)

(Insert assignee's social security or tax I.D. No.)

and irrevocably appoint _____ agent to transfer

this Security on the books of the Company. The agent may substitute another to act for him.

Date: _____ Your Signature: _____

Sign exactly as your name appears on the other side of this Security.

In connection with any transfer of any of the Securities evidenced by this certificate occurring prior to the expiration of the period referred to in Rule 144(k) under the Securities Act after the later of the date of original issuance of such Securities and the last date, if any, on which such Securities were owned by the Company or any Affiliate of the Company, the undersigned confirms that such Securities are being transferred in accordance with its terms:

CHECK ONE BOX BELOW

- (1) to the Company; or
- (2) pursuant to an effective registration statement under the Securities Act of 1933; or
- (3) inside the United States to a "qualified institutional buyer" (as defined in Rule 144A under the Securities Act of 1933) that purchases for its own account or for the

TO BE COMPLETED BY PURCHASER IF (3) ABOVE IS CHECKED.

The undersigned represents and warrants that it is purchasing this Security for its own account or an account with respect to which it exercises sole investment discretion and that it and any such account is a "qualified institutional buyer" within the meaning of Rule 144A under the Securities Act of 1933, and is aware that the sale to it is being made in reliance on Rule 144A and acknowledges that it has received such information regarding the Company as the undersigned has requested pursuant to Rule 144A or has determined not to request such information and that it is aware that the transferor is relying upon the undersigned's foregoing representations in order to claim the exemption from registration provided by Rule 144A.

Dated: _____

NOTICE: To be executed by
an executive officer

SCHEDULE OF INCREASES OR DECREASES IN GLOBAL SECURITY

The following increases or decreases in this Global Security have been made:

Date of Exchange	Amount of decrease in Principal amount of this Global Security	Amount of increase in Principal amount of this Global Security	Principal amount of this Global Security following such decrease or increase)	Signature of authorized officer of Trustee or Securities Custodian
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OPTION OF HOLDER TO ELECT PURCHASE

If you want to elect to have this Security purchased by the Company pursuant to Section 4.11 or 4.16 of the Indenture, check the box:

[]

If you want to elect to have only part of this Security purchased by the Company pursuant to Section 4.11 or 4.16 of the Indenture, state the amount in principal amount: \$

Date: _____

Your Signature: _____
 (Sign exactly as your name appears
 on the other side of this Security.)

Signature Guarantee: _____
 (Signature must be guaranteed)

Signatures must be guaranteed by an "eligible guarantor institution" meeting the requirements of the Registrar, which requirements include membership or participation in the Security Transfer Agent Medallion Program ("STAMP") or such other "signature guarantee program" as may be determined by the Registrar in addition to, or in substitution for, STAMP, all in accordance with the Securities Exchange Act of 1934, as amended.

[FACE OF EXCHANGE SECURITY
OR PRIVATE EXCHANGE SECURITY]

*/**/

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*/If the Security is to be issued in global form add the Global Securities Legend from Exhibit 1 to Appendix A and the attachment from such Exhibit 1 captioned "[TO BE ATTACHED TO GLOBAL SECURITIES] - SCHEDULE OF INCREASES OR DECREASES IN GLOBAL SECURITY".

**/If the Security is a Private Exchange Security issued in a Private Exchange to an Initial Purchaser holding an unsold portion of its initial allotment, add the Restricted Securities Legend from Exhibit 1 to Appendix A and replace the Assignment Form included in this Exhibit A with the Assignment Form included in such Exhibit 1.

No.
\$

CUSIP NO.
ISIN NO.

7.50% Senior Notes due 2013

Chesapeake Energy Corporation, an Oklahoma corporation, promises to pay to CEDE & CO., or registered assigns, the principal sum of -----
----- Dollars on

September 15, 2013.

Interest Payment Dates: March 15 and September 15
(commencing -----)

Record Dates: March 1 and September 1

Additional provisions of this Security are set forth on the other side of this Security.

Dated:

CHESAPEAKE ENERGY CORPORATION

by -----
Name:
Title:

by -----
Name:
Title:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

THE BANK OF NEW YORK,
as Trustee, certifies that
this is one of the Securities
referred to in the Indenture.

by -----
Authorized Signatory

[FORM OF REVERSE SIDE OF EXCHANGE SECURITY
OR PRIVATE EXCHANGE SECURITY]

7.50% Senior Note due 2013

1. Interest

Chesapeake Energy Corporation, an Oklahoma corporation (such corporation, and its successors and assigns under the Indenture hereinafter referred to, being herein called the "Company"), promises to pay interest on the principal amount of this Security at the rate per annum shown above; provided, however, that if a Registration Default (as defined in the Registration Rights Agreement) occurs, additional interest will accrue on this Security at a rate of 0.50% per annum (increasing by an additional 0.50% per annum after each consecutive 90-day period that occurs after the date on which such Registration Default occurs up to a maximum additional interest rate of 2.00%) from and including the date on which any such Registration Default shall occur to but excluding the date on which all Registration Defaults have been cured.** The Company will pay interest semiannually on 15 and September 15 of each year, commencing September 15, 2003. Interest on the Securities will accrue from the most recent date to which interest has been paid or, if no interest has been paid, from March 5, 2003. Interest will be computed on the basis of a 360-day year of twelve 30-day months.

2. Method of Payment

The Company will pay interest on the Securities (except defaulted interest) to the Persons who are registered holders of Securities at the close of business on the March 1 or September 1 next preceding the interest payment date even if Securities are canceled after the record date and on or before the interest payment date. Holders must surrender Securities to a Paying Agent to collect principal payments. The Company will pay principal and interest in money of the United States that at the time of payment is legal tender for payment of public and private debts. Payments in respect of the Securities represented by a Global Security (including principal, premium and interest) will be made by wire transfer of immediately available funds to the accounts specified by The Depository Trust Company. The Company will make all

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* *Insert if at the date of issuance of the Exchange Security or Private Exchange Security (as the case may be) any Registration Default has occurred with respect to the related Initial Securities during the interest period in which such date of issuance occurs.

payments in respect of a certificated Security (including principal, premium and interest) by mailing a check to the registered address of each Holder thereof; provided, however, that payments on a certificated Security will be made by wire transfer to a U.S. dollar account maintained by the payee with a bank in the United States if such Holder elects payment by wire transfer by giving written notice to the Trustee or the Paying Agent to such effect designating such account no later than 30 days immediately preceding the relevant due date for payment (or such other date as the Trustee may accept in its discretion).

3. Paying Agent and Registrar

Initially, The Bank of New York, a New York corporation (the "Trustee"), will act as Paying Agent and Registrar. The Company may appoint and change any Paying Agent, Registrar or co-registrar without notice. The Company or any of its domestically incorporated Wholly Owned Subsidiaries may act as Paying Agent, Registrar or co-registrar.

4. Indenture

The Company issued the Securities under an Indenture dated as of March 5, 2003 ("Indenture"), among the Company, the Subsidiary Guarantors and the Trustee. The terms of the Securities include those stated in the Indenture and those made part of the Indenture by reference to the Trust Indenture Act of 1939 (15 U.S.C. (S)(S) 7aaa-77bbbb) as in effect on the date of the Indenture (the "Act"). Terms defined in the Indenture and not defined herein have the meanings ascribed thereto in the Indenture. The Securities are subject to all such terms, and Holders are referred to the Indenture and the Act for a statement of those terms.

The Company shall be entitled, subject to its compliance with Section 4.09(a) of the Indenture, to issue Additional Securities pursuant to Section 2.13 of the Indenture. The Initial Securities issued on the Issue Date, any Additional Securities and all Exchange Securities or Private Exchange Securities issued in exchange therefor will be treated as a single class for all purposes under the Indenture.

5. Optional Redemption

The Securities may be redeemed at the option of the Company, in whole or from time to time in part, at any time on or after September 15, 2008, at the redemption prices set forth below (expressed as a percentage of the principal amount of the Securities to be redeemed), together with accrued and unpaid interest on the Securities so redeemed to the redemption date, if redeemed during the 12-month period commencing on September 15 of the years indicated below:

Year - - - - -	Redemption Price -----
2008	103.750%
2009	102.500%
2010	101.250%
2011 and thereafter	100.000%

Any redemption pursuant to this paragraph 5 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

6. Equity Offering Redemption

In the event the Company consummates one or more Equity Offerings on or prior to September 15, 2006, the Company may redeem, in its sole discretion, up to 35% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) with all or a portion of the aggregate net proceeds received by the Company from any such Equity Offering or Equity Offerings at a redemption price of 107.500% of the aggregate principal amount of the Securities so redeemed, plus accrued and unpaid interest on the Securities so redeemed to the redemption date; provided, however, that (i) the date of any such redemption occurs within the 90-day period after the Equity Offering in respect of which such redemption is made and (ii) following each such redemption, at least 65% of the aggregate principal amount of the Securities (which includes Additional Securities, if any) remains outstanding. Any redemption pursuant to this paragraph 6 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

7. Make-Whole Price Redemption

At any time prior to September 15, 2008, the Company may, at its option, redeem all or any portion of the Securities at the "Make-Whole Price" (as defined in the Indenture) plus accrued and unpaid interest on the Securities so redeemed to the date of redemption. Any redemption pursuant to this paragraph 7 shall be made, to the extent applicable, pursuant to the provisions of Sections 3.01 through 3.06 of the Indenture.

8. Notice of Redemption

Notice of redemption will be mailed to the Holder's registered address at least 30 days but not more than 60 days before the redemption date to each Holder of Securities to be redeemed. If less than all Securities are to be redeemed, the Trustee shall select pro rata, by lot or, if the Securities are

listed on any securities exchange, by any other method that the Trustee considers fair and appropriate and that complies with the requirements of such exchange, the Securities to be redeemed in multiples of \$1,000; provided, however, that no Securities with a principal amount of \$1,000 or less will be redeemed in part. Securities in denominations larger than \$1,000 may be redeemed in part. On and after the redemption date, interest ceases to accrue on Securities or portions of them called for redemption (unless the Company shall default in the payment of the redemption price or accrued interest).

9. Change of Control Offer

In the event of a Change of Control of the Company, the Company shall be required to make an offer to purchase all or any portion of each Holder's Securities, at 101% of the principal amount thereof, plus accrued and unpaid interest to the date of purchase.

10. Net Proceeds Offer

In the event of certain Asset Sales (and Sale/Leaseback Transactions), the Company may be required to make a Net Proceeds Offer to purchase all or any portion of each Holder's Securities, at 100% of the principal amount thereof, plus accrued and unpaid interest to the Net Proceeds Payment Date.

11. Restrictive Covenants

The Indenture imposes certain limitations on, among other things, the ability of the Company to merge or consolidate with any other Person or sell, lease or otherwise transfer all or substantially all of its properties or assets, the ability of the Company or the Restricted Subsidiaries to dispose of assets, to pay dividends and make certain other distributions and payments, to make certain investments or redeem, retire, repurchase or acquire for value shares of Capital Stock, to incur additional Indebtedness or incur encumbrances against certain property and to enter into certain transactions with Affiliates, all subject to certain limitations described in the Indenture.

12. Ranking and Guarantees

The Securities are general senior unsecured obligations of the Company. The Company's obligation to pay principal, premium, if any, and interest with respect to the Securities is unconditionally guaranteed on a senior basis, jointly and severally, by the Subsidiary Guarantors pursuant to Article Ten of the Indenture. Certain limitations to the obligations of the Subsidiary Guarantors are set forth in further detail in the Indenture.

13. Denominations; Transfer; Exchange

The Securities are in registered form without coupons in denominations of \$1,000 principal amount and whole multiples of \$1,000. A Holder may transfer or exchange Securities in accordance with the Indenture. The Registrar may require a Holder, among other things, to furnish appropriate endorsements or transfer documents and to pay any taxes and fees required by law or permitted by the Indenture. The Registrar need not register the transfer of or exchange of any Securities selected for redemption (except, in the case of a Security to be redeemed in part, the portion of the Security not to be redeemed) or any Securities for a period of 15 Business Days before the mailing of a notice of an offer to repurchase or redeem Securities or 15 Business Days before an interest payment date.

14. Persons Deemed Owners

The registered Holder of this Security may be treated as the owner of it for all purposes.

15. Unclaimed Money

If money for the payment of principal or interest remains unclaimed for two years, the Trustee or Paying Agent shall pay the money back to the Company at its request unless an abandoned property law designates another Person. After any such payment, Holders entitled to the money must look only to the Company and not to the Trustee for payment.

16. Discharge and Defeasance

Subject to certain conditions, the Company at any time shall be entitled to terminate some or all of its obligations under the Securities and the Indenture if the Company deposits with the Trustee money or U.S. Government Securities for the payment of principal and interest on the Securities to redemption or maturity, as the case may be.

17. Amendment, Supplement, Waiver

Subject to certain exceptions, the Indenture or the Securities may be amended or supplemented with the consent of the Holders of at least a majority of the outstanding principal amount of the Securities, and any past default or noncompliance with any provision may be waived with the consent of the Holders of a majority in principal amount of the Securities. Without the consent of any Holder, the Company may amend or supplement the Indenture or the Securities to, among other things, cure any ambiguity, defect or inconsistency or to make any change that does

not adversely affect the rights of any Holder in any material respect.

19. Successor Corporation

When a successor corporation assumes all the obligations of its predecessor under the Securities and the Indenture, the predecessor corporation will be released from those obligations.

20. Defaults and Remedies

An Event of Default generally is: default by the Company or any Subsidiary Guarantor for 30 days in payment of interest on the Securities; default by the Company or any Subsidiary Guarantor in payment of principal of, or premium, if any, on the Securities; default by the Company or any Subsidiary Guarantor in the deposit of any optional redemption or repurchase payment when due and payable; defaults resulting in acceleration prior to maturity of certain other Indebtedness or resulting from payment defaults under certain other Indebtedness; failure by the Company or any Subsidiary Guarantor for 45 days after notice to comply with any of its other agreements in the Indenture; certain final judgments against the Company or Subsidiaries; a failure of any Guarantee of a Subsidiary Guarantor to be in full force and effect or denial by any Subsidiary Guarantor of its obligations with respect thereto; and certain events of bankruptcy or insolvency. Subject to certain limitations in the Indenture, if an Event of Default occurs and is continuing, the Trustee or the Holders of at least 25% in principal amount of the then outstanding Securities may declare all the Securities to be due and payable immediately, except that in the case of an Event of Default arising from certain events of bankruptcy, insolvency or reorganization, all outstanding Securities shall become due and payable immediately without further action or notice. Holders may not enforce the Indenture or the Securities except as provided in the Indenture. The Trustee may require indemnity satisfactory to it before it enforces the Indenture or the Securities. Subject to certain limitations, Holders of a majority in principal amount of the Securities may direct the Trustee in its exercise of any trust or power. The Company must furnish an annual compliance certificate to the Trustee.

21. Trustee Dealings with Company and Subsidiary Guarantors

The Trustee under the Indenture, in its individual or any other capacity, may become the owner or pledgee of Securities and may otherwise deal with the Company, the Subsidiary Guarantors or their respective Subsidiaries or Affiliates with the same rights it would have if it were not Trustee.

22. No Recourse Against Others

A director, officer, employee or stockholder, as such, of the Company, any Subsidiary Guarantor or the Trustee shall not have any liability for any obligations of the Company, any Subsidiary Guarantor or the Trustee under the Securities or the Indenture or for any claim based on, in respect of or by reason of, such obligations or their creation. Each Holder by accepting a Security waives and releases all such liability. The waiver and release are part of the consideration for the issue of the Security.

23. Authentication

This Security shall not be valid until the Trustee or an authenticating agent signs the certificate of authentication on the other side of this Security.

24. Abbreviations

Customary abbreviations may be used in the name of a Holder or an assignee, such as: TEN COM (=tenants in common), TEN ENT (=tenants by the entireties), JT TEN (=joint tenants with right of survivorship and not as tenants in common), CUST (=Custodian), and U/G/M/A (=Uniform Gifts to Minors Act).

25. CUSIP Numbers

Pursuant to a recommendation promulgated by the Committee on Uniform Security Identification Procedures, the Company will cause CUSIP numbers to be printed on the Securities as a convenience to Holders of the Securities. No representation is made as to the accuracy of such numbers as printed on the Securities and reliance may be placed only on the other identification numbers printed hereon.

26. Holders' Compliance with Registration Rights Agreement

Each Holder of this Security, by acceptance hereof, acknowledges and agrees to the provisions of the Registration Rights Agreement, including the obligations of the Holders with respect to a registration and the indemnification of the Company to the extent provided therein.

27. Governing Law

THIS SECURITY SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK BUT WITHOUT GIVING EFFECT TO APPLICABLE PRINCIPLES OF CONFLICTS OF LAW TO THE EXTENT THAT THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION WOULD BE REQUIRED THEREBY, EXCEPT TO THE EXTENT THAT THE LAWS OF THE STATE OF NEW YORK WOULD REQUIRE THE APPLICATION OF THE LAWS OF ANOTHER JURISDICTION REGARDING THE VALIDITY OF THE SECURITIES.

The Company will furnish to any Holder upon written request and without charge to the Security holder a copy of the Indenture and a copy of the Registration Rights Agreement. Requests may be made to:

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

Attention: Chief Financial Officer

ASSIGNMENT FORM

To assign this Security, fill in the form below:

I or we assign and transfer this Security to

(Print or type assignee's name, address and zip code)

(Insert assignee's social security or tax I.D. No.)

and irrevocably appoint _____ agent to transfer this

Security on the books of the Company. The agent may substitute another to act
for him.

Date: _____ Your Signature: _____

Sign exactly as your name appears on the other side of this Security.

SCHEDULE OF INCREASES OR DECREASES IN GLOBAL SECURITY

The following increases or decreases in this Global Security have been made:

Date of Exchange	Amount of decrease in Principal amount of this Global Security	Amount of increase in Principal amount of this Global Security	Principal amount of this Global Security following such decrease or increase)	Signature of authorized officer of Trustee or Securities Custodian
-----	-----	-----	-----	-----

OPTION OF HOLDER TO ELECT PURCHASE

If you want to elect to have this Security purchased by the Company pursuant to Section 4.11 or 4.16 of the Indenture, check the box:

[]

If you want to elect to have only part of this Security purchased by the Company pursuant to Section 4.11 or 4.16 of the Indenture, state the amount in principal amount: \$

Date: _____ Your Signature: _____
 (Sign exactly as your name appears
 on the other side of this Security.)

Signature Guarantee: _____
 (Signature must be guaranteed)

Signatures must be guaranteed by an "eligible guarantor institution" meeting the requirements of the Registrar, which requirements include membership or participation in the Security Transfer Agent Medallion Program ("STAMP") or such other "signature guarantee program" as may be determined by the Registrar in addition to, or in substitution for, STAMP, all in accordance with the Securities Exchange Act of 1934, as amended.

FIFTH AMENDMENT
TO
SECOND AMENDED AND RESTATED CREDIT AGREEMENT
AND
CONSENT

THIS FIFTH AMENDMENT TO SECOND AMENDED AND RESTATED CREDIT AGREEMENT AND CONSENT (herein called this "Amendment") is dated as of March 3, 2003 (but effective on the Effective Date, defined below in Section 3.1) by and among Chesapeake Exploration Limited Partnership, an Oklahoma limited partnership ("Borrower"), Chesapeake Energy Corporation, an Oklahoma corporation ("Company"), Bear Stearns Corporate Lending Inc., as syndication agent ("Syndication Agent"), Union Bank of California, N.A., as administrative agent and collateral agent ("Administrative Agent"), and the several banks and other financial institutions or entities parties hereto ("Lenders").

W I T N E S S E T H:

WHEREAS, Borrower, Company, Syndication Agent, Administrative Agent and Lenders entered into that certain Second Amended and Restated Credit Agreement dated as of June 11, 2001 (as amended, supplemented, or restated to the date hereof, the "Original Agreement"), for the purpose and consideration therein expressed, whereby Lenders became obligated to make loans to Borrower as therein provided;

WHEREAS, Company intends to acquire certain oil and gas assets for cash for a purchase price of \$500,000,000 (subject to customary adjustments), substantially in accordance with the Purchase and Sale Agreement by and between El Paso Production Company and Noric, L.P., as sellers, and Chesapeake EP Corporation, as buyer, dated as of February 21, 2003 (the "El Paso Acquisition");

WHEREAS, Company intends to issue new senior notes in the aggregate face amount of up to \$350,000,000, providing (a) for an interest rate at the then prevailing market rate of interest, (b) for a maturity date of not sooner than seven years from the date of issuance, and (c) for covenants, mandatory prepayments, defaults, and events of default no more restrictive than those governing Company's 7-3/4% Senior Notes due 2015 (the "New Notes");

WHEREAS, prior to or contemporaneously with the issuance of the New Notes, Company intends to issue new Cumulative Convertible Perpetual Preferred Stock of the Company in the aggregate face amount of not more than \$250,000,000 with a dividend rate of not more than 7.5% per annum (the "New Preferred Stock") and/or additional common stock of the Company (the "New Common Stock");

WHEREAS, Borrower and Company have requested that Administrative Agent and Lenders consent to the foregoing proposed transactions; and

WHEREAS, Borrower, Company, Syndication Agent, Administrative Agent and Lenders desire to amend the Original Agreement as set forth;

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements contained herein and in the Original Agreement, in consideration of the loans which may hereafter be made by Lenders to Borrower, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto do hereby agree as follows:

ARTICLE I.

Definitions and References

Section 1.1. Terms Defined in the Original Agreement. Unless the context otherwise requires or unless otherwise expressly defined herein, the terms defined in the Original Agreement shall have the same meanings whenever used in this Amendment.

Section 1.2. Other Defined Terms. Unless the context otherwise requires, the following terms when used in this Amendment shall have the meanings assigned to them in this Section 1.2.

"Amendment" means this Fifth Amendment to Second Amended and Restated Credit Agreement and Consent.

"Credit Agreement" means the Original Agreement as amended hereby.

"Effective Date" has the meaning given to such term in Section 3.1.

ARTICLE II.

Amendments and Consents

Section 2.1. Defined Terms. The definition of "Indentures" in Section 1.1 of the Original Agreement is hereby amended in its entirety to read as follows:

" 'Indentures': the collective reference to (i) the 7-7/8% Note Indenture, (ii) the 8-1/2% Note Indenture, (iii) the 8-1/8% Note Indenture, (iv) the 8-3/8% Note Indenture, and (v) the other Indentures entered into from time to time as permitted pursuant to the terms of this Agreement or any consent by Majority Lenders hereunder governing Indebtedness of the Company and the guarantors thereof."

Section 2.2. Restricted Payments. Upon the issuance of not less than 15,000,000 shares of New Common Stock, Paragraph (c) of Section 7.6 of the Original Agreement is hereby amended to replace the reference to "\$25,000,000" with "\$35,000,000."

Section 2.3. New Notes. Administrative Agent and Lenders hereby (a) consent to the issuance of the New Notes, (b) waive any violations of Section 7.2 of the Credit Agreement resulting therefrom, and (c) agree that such New Notes shall be permitted in addition to the Indebtedness otherwise permitted pursuant to Section 7.2 of the Credit Agreement; provided that (i) at the time of the issuance of the New Notes, no Default or Event of Default has occurred that is continuing, the issuance of the New Notes shall be approved by the Board of Directors of Company, and the face amount of the New Notes divided by the sum of (x) the face amount of the New Notes plus (y) the aggregate sales price of the New Preferred Stock and/or New Common Stock shall not exceed 65%; (ii) the issuance of the New Notes shall be consummated on or before April 30, 2003; (iii) the net proceeds of the New Notes shall be used to consummate the El Paso Acquisition with any remaining funds (or all of such funds should the El Paso Acquisition fail to close) used to repay outstanding Indebtedness of any Group Member under the Loan Documents or to pay the purchase price of oil and gas properties acquired by a Group Member under the Loan Documents or to pay development costs with respect to oil and gas properties owned by a Group Member; and (iv) except as otherwise provided herein, nothing in this Amendment shall allow any Group Member to incur any other new Indebtedness not allowed pursuant to Section 7.2 of the Credit Agreement.

Section 2.4. Acquisition. Administrative Agent and Lenders hereby (a) consent to the El Paso Acquisition and (b) waive any violations of Section 7.7 of the Credit Agreement resulting therefrom; provided that (i) at the time of the El Paso Acquisition, no Default or Event of Default has occurred that is continuing, the El Paso Acquisition shall be approved by the Board of Directors of Company, and the Company has received proceeds of the New Notes, New Preferred Stock and/or New Common Stock of at least \$350,0000,000, (ii) each newly formed subsidiary of the Company (the "New Subsidiaries") shall become a Subsidiary Guarantor under the Credit Agreement pursuant to Section 6.9(b) thereof or shall be merged into a Subsidiary Guarantor (with such Subsidiary Guarantor being the continuing or surviving entity), (iii) the initial closing of the El Paso Acquisition shall be consummated on or before April 30, 2003, (iv) immediately following the consummation of the El Paso Acquisition, Company and Borrower shall deliver to Administrative Agent a certificate signed by a Responsible Officer certifying that after giving effect to the El Paso Acquisition and the inclusion of the New Subsidiaries as a Subsidiary Guarantor (x) no Default or Event of Default exists that is continuing and (y) all representations and warranties contained in Section 4 of the Credit Agreement are true and correct, and (v) except as otherwise provided herein, nothing in this Amendment shall allow any Group Member to make any other new Investments not allowed pursuant to Section 7.7 of the Credit Agreement. The limitations set forth in this Section shall not be deemed to restrict Investments otherwise allowed under clause (n) of Section 7.7 of the Credit Agreement.

Section 2.5. Preferred Stock Dividends. Administrative Agent and Lenders hereby (a) consent to the payment of cash dividends in respect of the New Preferred Stock in the aggregate face amount not to exceed \$250,000,000 (the "New Preferred Dividends"), (b) waive any violations of the Credit Agreement resulting therefrom, and (c) agree that such New Preferred Dividends shall be permitted in addition to the Restricted Payments otherwise permitted pursuant to Section 7.6 of the Credit Agreement; provided that (i) at the time of the declaration of such New Preferred Dividends, no Default or Event of Default has occurred which is continuing, (ii) the payment of the New Preferred Dividends shall be declared by the Board of Directors of

Company, and (iii) nothing in this Amendment shall allow any Person to make any other new Restricted Payments not allowed pursuant to Section 7.6 of the Credit Agreement.

ARTICLE III.

Conditions of Effectiveness; Closing

Section 3.1. Effective Date. This Amendment shall become effective on the date when all of the following conditions precedent have been satisfied (the "Effective Date"), provided that the Effective Date may occur no later than April 30, 2003 unless agreed to in writing by Administrative Agent and Borrower.

(a) Administrative Agent shall have received, at Administrative Agent's office, duly executed and delivered and in form and substance satisfactory to Administrative Agent, all of the following:

(i) this Amendment duly executed by Borrower, Company and Administrative Agent;

(ii) the Consent Agreement attached hereto duly executed by all Subsidiary Guarantors;

(iii) an "Omnibus Certificate" of the Secretary and of the Chairman of the Board or President of the general partner of Borrower, which shall contain the names and signatures of the officers of the general partner of Borrower authorized to execute Loan Documents and which shall certify to the truth, correctness and completeness of the following exhibits attached thereto: (1) a copy of resolutions attached thereto duly adopted by the Board of Directors of the general partner of Borrower and in full force and effect at the time this Amendment is entered into, authorizing the execution of this Amendment and the other Loan Documents delivered or to be delivered in connection herewith and the consummation of the transactions contemplated herein and therein, (2) a copy of the charter documents of Borrower and of the general partner of Borrower and all amendments thereto, certified by the appropriate official of the Borrower's state and general partner's state of organization, and (3) a copy of any bylaws of the general partner of Borrower previously delivered to Agent and Lenders in connection with the Original Agreement (which may, with respect to any such charter documents or bylaws, reference documents previously delivered in connection with the Original Agreement);

(iv) a "Compliance Certificate" of the Chairman of the Board or President and of the chief financial officer of the Company, which shall contain (1) a certification by such officers as to the satisfaction of the conditions set out in subsections (a), (b), and (c) of Section 5.2 of the Original Agreement and (2) the calculations required to determine the Senior Debt Limit (along with the supporting documentation described in Section 5.2(c) of the Original Agreement);

(v) documents similar to those specified in subsection (iii) of this Section with respect to each Subsidiary Guarantor (which may, with respect to charter documents or bylaws, reference documents previously delivered in connection with the Original Agreement); and

(vi) such other supporting documents as Administrative Agent may reasonably request.

(b) Borrower shall have paid, in connection with such Loan Documents, all recording, handling, amendment and other fees required to be paid to Administrative Agent pursuant to any Loan Documents.

(c) Borrower shall have paid, in connection with such Loan Documents, all other fees and reimbursements to be paid to Administrative Agent pursuant to any Loan Documents, or otherwise due Administrative Agent and including fees and disbursements of Administrative Agent's attorneys.

ARTICLE IV.

Representations and Warranties

Section 4.1. Representations and Warranties of Borrower. In order to induce each Lender to enter into this Amendment, Borrower represents and warrants to each Lender that:

(a) The representations and warranties contained in Section 4 of the Original Agreement are true and correct at and as of the time of the effectiveness hereof, except to the extent that the facts on which such representations and warranties are based have been changed by the extension of credit under the Credit Agreement.

(b) The Company and Borrower are duly authorized to execute and deliver this Amendment and are and will continue to be duly authorized to borrow monies and to perform their respective obligations under the Credit Agreement. The Company and Borrower have duly taken all corporate or partnership action necessary to authorize the execution and delivery of this Amendment and to authorize the performance of the obligations of the Company and Borrower hereunder.

(c) The execution and delivery by the Company and Borrower of this Amendment, the performance by the Company and Borrower of its obligations hereunder and the consummation of the transactions contemplated hereby do not and will not conflict with any provision of law, statute, rule or regulation or of the certificate of incorporation, bylaws, or agreement of limited partnership of the Company or Borrower (as applicable), or of any material agreement, judgment, license, order or permit applicable to or binding upon the Company or Borrower, or result in the creation of any lien, charge or encumbrance upon any assets or properties of the Company or Borrower. Except for those which have been obtained, no consent, approval, authorization or order of any court or governmental authority or third party is required

in connection with the execution and delivery by the Company and Borrower of this Amendment or to consummate the transactions contemplated hereby.

(d) When duly executed and delivered, each of this Amendment and the Credit Agreement will be a legal and binding obligation of the Company and Borrower, enforceable in accordance with its terms, except as limited by bankruptcy, insolvency or similar laws of general application relating to the enforcement of creditors' rights and by equitable principles of general application.

(e) The audited annual consolidated financial statements of the Company dated as of December 31, 2001 and the unaudited quarterly consolidated financial statements of the Company dated as of September 30, 2002 fairly present the consolidated financial position at such dates and the consolidated statement of operations and the changes in consolidated financial position for the periods ending on such dates for the Company. Copies of such financial statements have heretofore been delivered to each Lender. Since such dates no material adverse change has occurred in the financial condition or businesses or in the consolidated financial condition or businesses of the Company.

ARTICLE V.

Miscellaneous

Section 5.1. Ratification of Agreements. The Original Agreement as hereby amended is hereby ratified and confirmed in all respects. Any reference to the Credit Agreement in any Loan Document shall be deemed to be a reference to the Original Agreement as hereby amended. The execution, delivery and effectiveness of this Amendment shall not, except as expressly provided herein, operate as a waiver of any right, power or remedy of Lenders under the Credit Agreement, the Notes, or any other Loan Document nor constitute a waiver of any provision of the Credit Agreement, the Notes or any other Loan Document.

Section 5.2. Survival of Agreements. All representations, warranties, covenants and agreements of Borrower herein shall survive the execution and delivery of this Amendment and the performance hereof, including without limitation the making or granting of the Loans, and shall further survive until all of the Obligations are paid in full. All statements and agreements contained in any certificate or instrument delivered by the Company, Borrower or any Subsidiary Guarantor hereunder or under the Credit Agreement to any Lender shall be deemed to constitute representations and warranties by, and/or agreements and covenants of, such Loan Party under this Amendment and under the Credit Agreement.

Section 5.3. Loan Documents. This Amendment is a Loan Document, and all provisions in the Credit Agreement pertaining to Loan Documents apply hereto.

Section 5.4. Governing Law. This Amendment shall be governed by and construed in accordance with the laws of the State of New York and any applicable laws of the United States of America in all respects, including construction, validity and performance.

Section 5.5. Counterparts; Fax. This Amendment may be separately executed in counterparts and by the different parties hereto in separate counterparts, each of which when so executed shall be deemed to constitute one and the same Amendment. This Amendment may be validly executed by facsimile or other electronic transmission.

Section 5.6. Amendment Fee. In consideration of this Amendment, provided that Lenders constituting Majority Lenders are signatory to this Amendment on or before 5:00 p.m., Dallas, Texas time on the date hereof, Borrower will pay to Administrative Agent, for the account of each such signatory Lender, an amendment fee determined by multiplying .15% times such Lender's Revolving Commitment, which shall be due and payable on the date hereof.

THIS AMENDMENT AND THE OTHER LOAN DOCUMENTS REPRESENT THE FINAL AGREEMENT BETWEEN THE PARTIES AND MAY NOT BE CONTRADICTED BY EVIDENCE OF PRIOR, CONTEMPORANEOUS, OR SUBSEQUENT ORAL AGREEMENTS OF THE PARTIES. THERE ARE NO UNWRITTEN ORAL AGREEMENTS OF THE PARTIES.

[The remainder of this page has been intentionally left blank.]

IN WITNESS WHEREOF, this Amendment is executed as of the date first above written.

CHESAPEAKE EXPLORATION LIMITED
PARTNERSHIP

By: Chesapeake Operating, Inc., its
general partner

By: /s/ Martha A. Burger

Martha A. Burger
Treasurer and Sr. Vice President
Human Resources

CHESAPEAKE ENERGY CORPORATION

By: /s/ Martha A. Burger

Martha A. Burger
Treasurer and Sr. Vice President
Human Resources

UNION BANK OF CALIFORNIA, N.A.
Administrative Agent, Collateral Agent,
Issuing Lender and Lender

By: /s/ Sean Murphy

Name: Sean Murphy
Title: Vice President

By: /s/ Carl Stutzman

Name: Carl Stutzman
Title: Senior Vice President and
Manager

BANK OF OKLAHOMA, N.A.

By: /s/ John N. Huff

Name: John N. Huff
Title: Vice President

BANK OF SCOTLAND

By: /s/ Joseph Fratus

Name: Joseph Fratus
Title: First Vice President

BEAR STEARNS CORPORATE LENDING INC.

By: /s/ Victor Bulzacchelli

Name: Victor Bulzacchelli
Title: Authorized Agent

BNP PARIBAS

By: /s/ David Dodd

Name: David Dodd
Title: Director

By: /s/ Polly Schott

Name: Polly Schott
Title: Vice President

COMERICA BANK - TEXAS

By: /s/ Peter L. Sefzik

Name: Peter L. Sefzik
Title: Assistant Vice President

COMPASS BANK

By: /s/ Kathleen J. Bowen

Name: Kathleen J. Bowen
Title: Vice President

CREDIT LYONNAIS NEW YORK BRANCH

By: /s/ Olivier Audemard

Name: Olivier Audemard
Title: Senior Vice President

CREDIT SUISSE FIRST BOSTON

By: /s/ James P. Moran

Name: James P. Moran
Title: Director

By: /s/ Ian W. Nalitt

Name: Ian W. Nalitt
Title: Associate

NATEXIS BANQUES POPULAIRES

By: /s/ Donovan C. Broussard

Name: Donovan C. Broussard
Title: Vice President

By: /s/ Louis P. Laville, III

Name: Louis P. Laville, III
Title: Vice President and Group Manager

PNC BANK, NATIONAL ASSOCIATION

By: /s/ Doug Clark

Name: Doug Clark
Title: Vice President

RZB FINANCE LLC

By: /s/ Christoph Hoedl

Name: Christoph Hoedl
Title: Vice President

By: /s/ Elizabeth Hirst

Name: Elizabeth Hirst
Title: AVP

SUMITOMO MITSUI BANKING
CORPORATION

By: /s/ William Ginn

Name: William Ginn
Title: General Manager

TORONTO DOMINION (TEXAS), INC.

By: /s/ Rachel Suiter

Name: Rachel Suiter
Title: Vice President

WASHINGTON MUTUAL BANK, FA

By: /s/ Mark Isensee

Name: Mark Isensee
Title: Vice President

Fifth Amendment to Second Amended and Restated Credit Agreement and Consent

CONSENT AND AGREEMENT

By its execution below, each Guarantor hereby (i) consents to the provisions of this Amendment and the transactions contemplated herein, (ii) ratifies and confirms the Guarantee Agreement dated as of June 11, 2001 made by it for the benefit of Administrative Agent and Lenders (as modified by certain Assumption Agreements) and the other Loan Documents executed pursuant to the Credit Agreement (or any prior amendment or supplement to the Credit Agreement), (iii) agrees that all of its respective obligations and covenants thereunder shall remain unimpaired by the execution and delivery of this Amendment and the other documents and instruments executed in connection herewith, and (iv) agrees that the Guarantee Agreement and such other Loan Documents shall remain in full force and effect.

CHESAPEAKE ENERGY CORPORATION
CHESAPEAKE OPERATING, INC.

By: /s/ Martha A. Burger

Martha A. Burger
Treasurer and Sr. Vice President Human Resources
of each above corporation

THE AMES COMPANY, L.L.C.
(successor to The Ames Company, Inc.)
CARMEN ACQUISITION, L.L.C.
(successor to Carmen Acquisition Corp.)
CHESAPEAKE ACQUISITION, L.L.C.
(successor to Chesapeake Acquisition Corporation)
CHESAPEAKE EP CORPORATION
(formerly known as Chesapeake Beta Corporation)
CHESAPEAKE DELTA CORP.
CHESAPEAKE ENERGY LOUISIANA CORPORATION
CHESAPEAKE ENO ACQUISITION, L.L.C.
(successor to Chesapeake Eno Acquisition Corp.)
CHESAPEAKE FOCUS, L.L.C.
(successor to Chesapeake Focus Corp.)
CHESAPEAKE KNAN ACQUISITION, L.L.C.
(successor to Chesapeake Knan Acquisition Corporation)
CHESAPEAKE MOUNTAIN FRONT, L.L.C.
(successor to Chesapeake Mountain Front Corp.)
CHESAPEAKE ORC, L.L.C.
CHESAPEAKE ROYALTY, L.L.C.
(successor to Chesapeake Royalty Company)
GOTHIC ENERGY, L.L.C.
(successor to Gothic Energy Corporation)
GOTHIC PRODUCTION, L.L.C.
(successor to Gothic Production Corporation)
NOMAC DRILLING CORPORATION
SAP ACQUISITION, L.L.C.
(successor to Sap Acquisition Corp.)

By: /s/ Martha A. Burger

Martha A. Burger
Treasurer of each above corporation

CHESAPEAKE PANHANDLE LIMITED PARTNERSHIP
CHESAPEAKE-STAGHORN ACQUISITION L.P.
CHESAPEAKE LOUISIANA, L.P.
CHESAPEAKE SIGMA, L.P.

By: CHESAPEAKE OPERATING, INC., as General Partner
of each above limited partnership

By: /s/ Martha A. Burger

Martha A. Burger
Treasurer and Sr. Vice President Human Resources

\$300,000,000

CHESAPEAKE ENERGY CORPORATION

7.5% Senior Notes due 2013

REGISTRATION RIGHTS AGREEMENT

March 5, 2003

SALOMON SMITH BARNEY INC.
BEAR, STEARNS & CO. INC.
CREDIT SUISSE FIRST BOSTON LLC
LEHMAN BROTHERS INC.
MORGAN STANLEY & CO. INCORPORATED
BNP PARIBAS SECURITIES CORP.
CREDIT LYONNAIS SECURITIES (USA) INC.
TD SECURITIES (USA) INC.
c/o Salomon Smith Barney Inc.
388 Greenwich Street
New York, New York 10013

Dear Sirs:

Chesapeake Energy Corporation, an Oklahoma corporation (the "Issuer"), proposes to issue and sell to Salomon Smith Barney Inc., Bear, Stearns & Co. Inc., Credit Suisse First Boston LLC, Lehman Brothers Inc., Morgan Stanley & Co. Incorporated, BNP Paribas Securities Corp., Credit Lyonnais Securities (USA) Inc. and TD Securities (USA) (collectively, the "Initial Purchasers"), upon the terms set forth in a purchase agreement dated February 28, 2003 (the "Purchase Agreement"), \$300,000,000 aggregate principal amount of its 7.5% Senior Notes due 2013 (the "Initial Securities") to be initially guaranteed (the "Guarantees") by The Ames Company, L.L.C., Carmen Acquisition, L.L.C., Chesapeake Acquisition, L.L.C., Chesapeake EP Corporation, Chesapeake Delta Corp., Chesapeake Energy Louisiana Corporation, Chesapeake ENO Acquisition, L.L.C., Chesapeake Focus, L.L.C., Chesapeake KNAN Acquisition, L.L.C., Chesapeake Mountain Front, L.L.C., Chesapeake Operating, Inc., Chesapeake ORC, L.L.C., Chesapeake Royalty, L.L.C., Gothic Energy, L.L.C., Gothic Production, L.L.C., Nomac Drilling Corporation, Sap Acquisition, L.L.C., Chesapeake Exploration Limited Partnership, Chesapeake Louisiana, L.P., Chesapeake Panhandle Limited Partnership, Chesapeake-Staghorn Acquisition L.P., Chesapeake Sigma, L.P. (the "Guarantors" and, collectively with the Issuer, the "Company"). The Initial Securities will be issued pursuant to the Indenture, dated as of March 5, 2003 (the "Indenture"), among the Issuer, the Guarantors named therein and The Bank of New York, as trustee (the "Trustee"). As an inducement to the Initial Purchasers to enter into the Purchase Agreement, the Company agrees with the Initial Purchasers, for the benefit of the Initial Purchasers and the holders of the Securities (as defined below) (collectively the "Holders"), as follows:

1. Registered Exchange Offer. Unless not permitted by applicable law (after the Company has complied with the ultimate paragraph of this Section 1), the Company shall prepare and, not later than 60 days (such 60th day being a "Filing Deadline") after the date on which the Initial Purchasers purchase the Initial Securities pursuant to the Purchase Agreement (the "Closing Date"), file with the Securities and Exchange Commission (the "Commission") a registration statement on an appropriate form under the Securities Act of 1933, as amended (the "Securities Act"), or amend an existing registration statement

(each such registration statement, an "Exchange Offer Registration Statement"), with respect to a proposed offer (the "Registered Exchange Offer") to the Holders of Transfer Restricted Securities (as defined in Section 6 hereof), who are not prohibited by any law or policy of the Commission from participating in the Registered Exchange Offer, to issue and deliver to such Holders, in exchange for the Initial Securities, a like aggregate principal amount of debt securities of the Company issued under the Indenture, identical in all material respects to the Initial Securities and registered under the Securities Act (the "Exchange Securities"). Each of the Issuer and the Guarantors shall use its best efforts to (i) cause such Exchange Offer Registration Statement to become effective under the Securities Act within 180 days after the Closing Date (such 180th day being an "Effectiveness Deadline") and (ii) keep the Exchange Offer Registration Statement effective for not less than 30 days (or longer, if required by applicable law) after the date notice of the Registered Exchange Offer is mailed to the Holders (such period being called the "Exchange Offer Registration Period").

If the Company commences the Registered Exchange Offer, each of the Issuer and the Guarantors (i) shall use its best efforts to consummate the Registered Exchange Offer on the earliest practicable date after the Exchange Offer Registration Statement has become effective and (ii) will be required to consummate the Registered Exchange Offer no later than 60 days after the date on which the Exchange Offer Registration Statement is declared effective (such 60th day being the "Consummation Deadline").

Following the declaration of the effectiveness of the Exchange Offer Registration Statement, the Company shall promptly commence the Registered Exchange Offer, it being the objective of such Registered Exchange Offer to enable each Holder of Transfer Restricted Securities electing to exchange the Initial Securities for Exchange Securities (assuming that such Holder is not an affiliate of the Company within the meaning of the Securities Act, acquires the Exchange Securities in the ordinary course of such Holder's business and has no arrangements with any person to participate in the distribution of the Exchange Securities and is not prohibited by any law or policy of the Commission from participating in the Registered Exchange Offer) to trade such Exchange Securities from and after their receipt without any limitations or restrictions under the Securities Act and without material restrictions under the securities laws of the several states of the United States.

The Company acknowledges that, pursuant to current interpretations by the Commission's staff of Section 5 of the Securities Act, in the absence of an applicable exemption therefrom, (i) each Holder which is a broker-dealer electing to exchange Initial Securities, acquired for its own account as a result of market making activities or other trading activities, for Exchange Securities (an "Exchanging Dealer"), is required to deliver a prospectus containing the information set forth in (a) Annex A hereto on the cover, (b) Annex B hereto in the "Exchange Offer Procedures" section and the "Purpose of the Exchange Offer" section and (c) Annex C hereto in the "Plan of Distribution" section of such prospectus in connection with a sale of any such Exchange Securities received by such Exchanging Dealer pursuant to the Registered Exchange Offer and (ii) if an Initial Purchaser elects to sell Securities (as defined below) acquired in exchange for Initial Securities constituting any portion of an unsold allotment, such Initial Purchaser is required to deliver a prospectus containing the information required by Items 507 or 508 of Regulation S-K under the Securities Act, as applicable, in connection with such sale.

The Company shall use its best efforts to keep the Exchange Offer Registration Statement effective and to amend and supplement the prospectus contained therein, in order to permit such prospectus to be lawfully delivered by all persons subject to the prospectus delivery requirements of the Securities Act for such period of time as such persons must comply with such requirements in order to resell the Exchange Securities; provided, however, that (i) in the case where such prospectus and any amendment or supplement thereto must be delivered by an Exchanging Dealer or an Initial Purchaser, such period shall be the lesser of 180 days and the date on which all Exchanging Dealers and the Initial Purchasers have sold all Exchange Securities held by them (unless such period is extended pursuant to Section 3(j) below) and (ii) the Company shall make such prospectus and any amendment or supplement thereto available to any

broker-dealer for use in connection with any resale of any Exchange Securities for a period of not less than 180 days after the consummation of the Registered Exchange Offer.

If, upon consummation of the Registered Exchange Offer, any Initial Purchaser holds Initial Securities acquired by it as part of its initial distribution, the Company, simultaneously with the delivery of the Exchange Securities pursuant to the Registered Exchange Offer, shall issue and deliver to such Initial Purchaser upon the written request of such Initial Purchaser, in exchange (the "Private Exchange") for the Initial Securities held by such Initial Purchaser, a like principal amount of debt securities of the Company issued under the Indenture and identical in all material respects to the Initial Securities (the "Private Exchange Securities"). The Initial Securities, the Exchange Securities and the Private Exchange Securities are herein collectively called the "Securities".

In connection with the Registered Exchange Offer, the Company shall:

(a) mail to each Holder a copy of the prospectus forming part of the Exchange Offer Registration Statement, together with an appropriate letter of transmittal and related documents;

(b) keep the Registered Exchange Offer open for the minimum period required under applicable Federal and state securities laws, which shall not be less than 30 days nor more than 60 days after the date notice thereof is mailed to the Holders;

(c) utilize the services of a depository for the Registered Exchange Offer with an address in the Borough of Manhattan, The City of New York, which may be the Trustee or an affiliate of the Trustee;

(d) permit Holders to withdraw tendered Securities at any time prior to the close of business, New York time, on the last business day on which the Registered Exchange Offer shall remain open; and

(e) otherwise comply with all applicable laws.

As soon as practicable after the close of the Registered Exchange Offer or the Private Exchange, as the case may be, the Company shall:

(x) accept for exchange all the Securities validly tendered and not withdrawn pursuant to the Registered Exchange Offer and the Private Exchange;

(y) deliver to the Trustee for cancellation all the Initial Securities so accepted for exchange; and

(z) cause the Trustee to authenticate and deliver promptly to each Holder of the Initial Securities, Exchange Securities or Private Exchange Securities, as the case may be, equal in principal amount to the Initial Securities of such Holder so accepted for exchange.

The Indenture provides that the Exchange Securities will not be subject to the transfer restrictions set forth in the Indenture and that all the Securities will vote and consent together on all matters as one class and that none of the Securities will have the right to vote or consent as a class separate from one another on any matter.

Interest on each Exchange Security and Private Exchange Security issued pursuant to the Registered Exchange Offer and in the Private Exchange will accrue from the last interest payment date on

which interest was paid on the Initial Securities surrendered in exchange therefor or, if no interest has been paid on the Initial Securities, from date of original issue of the Initial Securities.

Each Holder participating in the Registered Exchange Offer shall be required to represent to the Company that at the time of the consummation of the Registered Exchange Offer (i) any Exchange Securities received by such Holder will be acquired in the ordinary course of business, (ii) such Holder will have no arrangements or understanding with any person to participate in the distribution of the Securities or the Exchange Securities within the meaning of the Securities Act, (iii) such Holder is not an "affiliate," as defined in Rule 405 of the Securities Act, of the Company or if it is an affiliate, such Holder will comply with the registration and prospectus delivery requirements of the Securities Act to the extent applicable, (iv) if such Holder is not a broker-dealer, that it is not engaged in, and does not intend to engage in, the distribution of the Exchange Securities and (v) if such Holder is a broker-dealer, that it will receive Exchange Securities for its own account in exchange for Initial Securities that were acquired as a result of market-making activities or other trading activities and that it will be required to acknowledge that it will deliver a prospectus in connection with any resale of such Exchange Securities.

Notwithstanding any other provisions hereof, the Company will ensure that (i) any Exchange Offer Registration Statement and any amendment thereto and any prospectus forming part thereof and any supplement thereto complies in all material respects with the Securities Act and the rules and regulations thereunder, (ii) any Exchange Offer Registration Statement and any amendment thereto does not, when it becomes effective, contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading and (iii) any prospectus forming part of any Exchange Offer Registration Statement, and any supplement to such prospectus, does not include an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

If following the date hereof there has been announced a change in Commission policy with respect to exchange offers that in the reasonable opinion of counsel to the Company raises a substantial question as to whether the Registered Exchange Offer is permitted by applicable federal law, the Company will seek a no-action letter or other favorable decision from the Commission allowing the Company to consummate the Registered Exchange Offer. The Company will pursue the issuance of such a decision to the Commission staff level. In connection with the foregoing, the Company will take all such other actions as may be requested by the Commission or otherwise required in connection with the issuance of such decision, including without limitation (i) participating in telephonic conferences with the Commission, (ii) delivering to the Commission staff an analysis prepared by counsel to the Company setting forth the legal bases, if any, upon which such counsel has concluded that the Registered Exchange Offer should be permitted and (iii) diligently pursuing a resolution (which need not be favorable) by the Commission staff.

2. Shelf Registration. If, (i) because of any change in law or in applicable interpretations thereof by the staff of the Commission, the Company is not permitted to effect a Registered Exchange Offer, as contemplated by Section 1 hereof, (ii) for any other reason the Registered Exchange Offer is not consummated within 240 days of the Closing Date, (iii) any Initial Purchaser so requests with respect to the Initial Securities (or the Private Exchange Securities) not eligible to be exchanged for Exchange Securities in the Registered Exchange Offer and held by it following consummation of the Registered Exchange Offer or (iv) any Holder (other than an Exchanging Dealer) is not eligible to participate in the Registered Exchange Offer or, in the case of any Holder (other than an Exchanging Dealer) that participates in the Registered Exchange Offer, such Holder does not receive freely tradeable Exchange Securities on the date of the exchange and any such Holder so requests, the Company shall take the following actions (the date on which any of the conditions described in the foregoing clauses (i) through (iv) occur, including in the case of clauses (iii) or (iv) the receipt of the required notice, being a "Trigger Date"):

(a) The Company shall promptly (but in no event more than 30 days after the Trigger Date (such 30th day being a "Filing Deadline")) file with the Commission and thereafter use its best efforts to cause to be declared effective no later than the date (the "Effectiveness Date") that is (1) in the case of clause (i) above, 180 days after the Issue Date or (2) in the case of clauses (ii), (iii) or (iv) above, 60 days after the Filing Deadline, a registration statement (the "Shelf Registration Statement" and, together with the Exchange Offer Registration Statement, a "Registration Statement") on an appropriate form under the Securities Act relating to the offer and sale of the Transfer Restricted Securities by the Holders thereof from time to time in accordance with the methods of distribution set forth in the Shelf Registration Statement and Rule 415 under the Securities Act (hereinafter, the "Shelf Registration"); provided, however, that no Holder (other than an Initial Purchaser) shall be entitled to have the Securities held by it covered by such Shelf Registration Statement unless such Holder agrees in writing to be bound by all the provisions of this Agreement applicable to such Holder.

(b) The Company shall use its best efforts to keep the Shelf Registration Statement continuously effective in order to permit the prospectus included therein to be lawfully delivered by the Holders of the relevant Securities, for a period of two years (or for such longer period if extended pursuant to Section 3(j) below) from the date of its effectiveness or such shorter period that will terminate when all the Securities covered by the Shelf Registration Statement (i) have been sold pursuant thereto or (ii) are no longer restricted securities (as defined in Rule 144 under the Securities Act, or any successor rule thereof). The Company shall be deemed not to have used its best efforts to keep the Shelf Registration Statement effective during the requisite period if it voluntarily takes any action that would result in Holders of Securities covered thereby not being able to offer and sell such Securities during that period, unless such action is required by applicable law.

(c) Notwithstanding any other provisions of this Agreement to the contrary, the Company shall cause the Shelf Registration Statement and the related prospectus and any amendment or supplement thereto, as of the effective date of the Shelf Registration Statement, amendment or supplement, (i) to comply in all material respects with the applicable requirements of the Securities Act and the rules and regulations of the Commission and (ii) not to contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein, in light of the circumstances under which they were made, not misleading.

3. Registration Procedures. In connection with any Shelf Registration contemplated by Section 2 hereof and, to the extent applicable, any Registered Exchange Offer contemplated by Section 1 hereof, the following provisions shall apply:

(a) The Company shall (i), if requested by an Initial Purchaser, furnish to such Initial Purchaser, prior to the filing thereof with the Commission, a copy of the Registration Statement and each amendment thereof and each supplement, if any, to the prospectus included therein and, in the event that an Initial Purchaser (with respect to any portion of an unsold allotment from the original offering) is participating in the Registered Exchange Offer or the Shelf Registration Statement, the Company shall use its best efforts to reflect in each such document, when so filed with the Commission, such comments as such Initial Purchaser reasonably may propose; (ii) include the information set forth in Annex A hereto on the cover, in Annex B hereto in the "Exchange Offer Procedures" section and the "Purpose of the Exchange Offer" section and in Annex C hereto in the "Plan of Distribution" section of the prospectus forming a part of the Exchange Offer Registration Statement and include the information set forth in Annex D hereto in the Letter of Transmittal delivered pursuant to the Registered Exchange Offer; (iii) if requested by an Initial Purchaser, include the information required by Items 507 or 508 of Regulation S-K under the Securities Act, as applicable, in the prospectus forming a part of the Exchange Offer Registration Statement; (iv) include within the prospectus contained in the Exchange Offer Registration Statement a section entitled "Plan of Distribution," reasonably acceptable to the Initial Purchasers, which shall contain a summary statement of the positions taken or policies made by the staff of the Commission with respect to the potential "underwriter" status of any broker-dealer that is the beneficial owner (as defined in Rule 13d-3 under the Securities Exchange Act of 1934, as amended (the "Exchange Act")) of Exchange Securities received by such broker-dealer in the Registered Exchange Offer (a "Participating Broker-Dealer"), whether such positions or policies have been publicly disseminated by the staff of the Commission or such positions or policies, in the reasonable judgment of the Initial Purchasers based upon advice of counsel (which may be in-house counsel), represent the prevailing views of the staff of the Commission; and (v) in the case of a Shelf Registration Statement, include the names of the Holders who propose to sell Securities pursuant to the Shelf Registration Statement as selling securityholders.

(b) The Company shall give written notice to the Initial Purchasers, the Holders of the Securities and any Participating Broker-Dealer from whom the Company has received prior written notice that it will be a Participating Broker-Dealer in the Registered Exchange Offer (which notice pursuant to clauses (ii)-(v) hereof shall be accompanied by an instruction to suspend the use of the prospectus until the requisite changes have been made):

(i) when the Registration Statement or any amendment thereto has been filed with the Commission and when the Registration Statement or any post-effective amendment thereto has become effective;

(ii) of any request by the Commission for amendments or supplements to the Registration Statement or the prospectus included therein or for additional information;

(iii) of the issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement or the initiation of any proceedings for that purpose;

(iv) of the receipt by the Company or its legal counsel of any notification with respect to the suspension of the qualification of the Securities for sale in any jurisdiction or the initiation or threatening of any proceeding for such purpose; and

(v) of the happening of any event that requires the Company to make changes in the Registration Statement or the prospectus in order that the Registration Statement or the prospectus does not contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein (in

the case of the prospectus, in light of the circumstances under which they were made) not misleading.

(c) The Company shall make every reasonable effort to obtain the withdrawal at the earliest possible time, of any order suspending the effectiveness of the Registration Statement.

(d) The Company shall furnish to each Holder of Securities included within the coverage of the Shelf Registration, without charge, at least one copy of the Shelf Registration Statement and any post-effective amendment thereto, including financial statements and schedules, and, if the Holder so requests in writing, all exhibits thereto (including those, if any, incorporated by reference).

(e) The Company shall deliver to each Exchanging Dealer and each Initial Purchaser who so requests, and to any other Holder who so requests, without charge, at least one copy of the Exchange Offer Registration Statement and any post-effective amendment thereto, including financial statements and schedules, and, if any Initial Purchaser or any such Holder requests, all exhibits thereto (including those incorporated by reference).

(f) The Company shall, during the Shelf Registration Period, deliver to each Holder of Securities included within the coverage of the Shelf Registration, without charge, as many copies of the prospectus (including each preliminary prospectus) included in the Shelf Registration Statement and any amendment or supplement thereto as such person may reasonably request. The Company consents, subject to the provisions of this Agreement, to the use of the prospectus or any amendment or supplement thereto by each of the selling Holders of the Securities in connection with the offering and sale of the Securities covered by the prospectus, or any amendment or supplement thereto, included in the Shelf Registration Statement.

(g) The Company shall deliver to each Initial Purchaser, any Exchanging Dealer, any Participating Broker-Dealer and such other persons required to deliver a prospectus following the Registered Exchange Offer, without charge, as many copies of the final prospectus included in the Exchange Offer Registration Statement and any amendment or supplement thereto as such persons may reasonably request. The Company consents, subject to the provisions of this Agreement, to the use of the prospectus or any amendment or supplement thereto by any Initial Purchaser, if necessary, any Participating Broker-Dealer and such other persons required to deliver a prospectus following the Registered Exchange Offer in connection with the offering and sale of the Exchange Securities covered by the prospectus, or any amendment or supplement thereto, included in such Exchange Offer Registration Statement.

(h) Prior to any public offering of the Securities pursuant to any Registration Statement the Company shall register or qualify or cooperate with the Holders of the Securities included therein and their respective counsel in connection with the registration or qualification of the Securities for offer and sale under the securities or "blue sky" laws of such states of the United States as any Holder of the Securities reasonably requests in writing and do any and all other acts or things necessary or advisable to enable the offer and sale in such jurisdictions of the Securities covered by such Registration Statement; provided, however, that the Company shall not be required to (i) qualify generally to do business in any jurisdiction where it is not then so qualified or (ii) take any action which would subject it to general service of process or to taxation in any jurisdiction where it is not then so subject.

(i) The Company shall cooperate with the Holders of the Securities to facilitate the timely preparation and delivery of certificates representing the Securities to be sold pursuant to any Registration Statement free of any restrictive legends and in such denominations and registered in

such names as the Holders may request a reasonable period of time prior to sales of the Securities pursuant to such Registration Statement.

(j) Upon the occurrence of any event contemplated by paragraphs (ii) through (v) of Section 3(b) above during the period for which the Company is required to maintain an effective Registration Statement, the Company shall promptly prepare and file a post-effective amendment to the Registration Statement or a supplement to the related prospectus and any other required document so that, as thereafter delivered to Holders of the Securities or purchasers of Securities, the prospectus will not contain an untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein, in light of the circumstances under which they were made, not misleading. If the Company notifies the Initial Purchasers, the Holders of the Securities and any known Participating Broker-Dealer in accordance with paragraphs (ii) through (v) of Section 3(b) above to suspend the use of the prospectus until the requisite changes to the prospectus have been made, then the Initial Purchasers, the Holders of the Securities and any such Participating Broker-Dealers shall suspend use of such prospectus, and the period of effectiveness of the Shelf Registration Statement provided for in Section 2(b) above and the Exchange Offer Registration Statement provided for in Section 1 above shall each be extended by the number of days from and including the date of the giving of such notice to and including the date when the Initial Purchasers, the Holders of the Securities and any known Participating Broker-Dealer shall have received such amended or supplemented prospectus pursuant to this Section 3(j).

(k) Not later than the effective date of the applicable Registration Statement, the Company will provide a CUSIP number for the Initial Securities, the Exchange Securities or the Private Exchange Securities, as the case may be, and provide the applicable trustee with certificates for the Initial Securities, the Exchange Securities or the Private Exchange Securities, as the case may be, in a form eligible for deposit with The Depository Trust Company.

(l) The Company will comply with all rules and regulations of the Commission to the extent and so long as they are applicable to the Registered Exchange Offer or the Shelf Registration and will make generally available to its security holders (or otherwise provide in accordance with Section 11(a) of the Securities Act) an earnings statement satisfying the provisions of Section 11(a) of the Securities Act, no later than 45 days after the end of a 12-month period (or 90 days, if such period is a fiscal year) beginning with the first month of the Company's first fiscal quarter commencing after the effective date of the Registration Statement, which statement shall cover such 12-month period.

(m) The Company shall cause the Indenture to be qualified under the Trust Indenture Act of 1939, as amended, in a timely manner and containing such changes, if any, as shall be necessary for such qualification. In the event that such qualification would require the appointment of a new trustee under the Indenture, the Company shall appoint a new trustee thereunder pursuant to the applicable provisions of the Indenture.

(n) The Company may require each Holder of Securities to be sold pursuant to the Shelf Registration Statement to furnish to the Company such information regarding the Holder and the distribution of the Securities as the Company may from time to time reasonably require for inclusion in the Shelf Registration Statement, and the Company may exclude from such registration the Securities of any Holder that unreasonably fails to furnish such information within a reasonable time after receiving such request.

(o) The Company shall enter into such customary agreements (including, if requested, an underwriting agreement in customary form) and take all such other action, if any, as any Holder of

the Securities shall reasonably request in order to facilitate the disposition of the Securities pursuant to any Shelf Registration.

(p) In the case of any Shelf Registration, the Company shall (i) make reasonably available for inspection by the Holders of the Securities, any underwriter participating in any disposition pursuant to the Shelf Registration Statement and any attorney, accountant or other agent retained by the Holders of the Securities or any such underwriter all relevant financial and other records, pertinent corporate documents and properties of the Company and (ii) cause the Company's officers, directors, employees, accountants and auditors to supply all relevant information reasonably requested by the Holders of the Securities or any such underwriter, attorney, accountant or agent in connection with the Shelf Registration Statement, in each case, as shall be reasonably necessary to enable such persons, to conduct a reasonable investigation within the meaning of Section 11 of the Securities Act; provided, however, that the foregoing inspection and information gathering shall be coordinated on behalf of the Initial Purchasers by Salomon Smith Barney Inc., and on behalf of the other parties, by one counsel designated by and on behalf of such other parties as described in Section 4 hereof.

(q) In the case of any Shelf Registration, the Company, if requested by any Holder of Securities covered thereby, shall cause (i) its counsel to deliver an opinion and updates thereof relating to the Securities in customary form addressed to such Holders and the Managing Underwriters (as defined below), if any, thereof and dated, in the case of the initial opinion, the effective date of such Shelf Registration Statement (it being agreed that the matters to be covered by such opinion shall include, without limitation, the due incorporation and good standing of the Company and its subsidiaries; the qualification of the Company and its subsidiaries to transact business as foreign corporations; the due authorization, execution and delivery of the relevant agreement of the type referred to in Section 3(o) hereof; the due authorization, execution, authentication and issuance, and the validity and enforceability, of the applicable Securities; the absence of material legal or governmental proceedings involving the Company and its subsidiaries; the absence of governmental approvals required to be obtained in connection with the Shelf Registration Statement, the offering and sale of the applicable Securities, or any agreement of the type referred to in Section 3(o) hereof; the compliance as to form of such Shelf Registration Statement and any documents incorporated by reference therein and of the Indenture with the requirements of the Securities Act and the Trust Indenture Act, respectively; and, as of the date of the opinion and as of the effective date of the Shelf Registration Statement or most recent post-effective amendment thereto, as the case may be, the absence from such Shelf Registration Statement and the prospectus included therein, as then amended or supplemented, and from any documents incorporated by reference therein of an untrue statement of a material fact or the omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading (in the case of any such documents, in the light of the circumstances existing at the time that such documents were filed with the Commission under the Exchange Act); (ii) its officers to execute and deliver all customary documents and certificates and updates thereof requested by any underwriters of the applicable Securities and (iii) its independent public accountants to provide to the selling Holders of the applicable Securities and any underwriter therefor a comfort letter in customary form and covering matters of the type customarily covered in comfort letters in connection with primary underwritten offerings, subject to receipt of appropriate documentation as contemplated, and only if permitted, by Statement of Auditing Standards No. 72.

(r) In the case of the Registered Exchange Offer, if requested by any Initial Purchaser or any known Participating Broker-Dealer, the Company shall cause (i) its counsel to deliver to such Initial Purchaser or such Participating Broker-Dealer a signed opinion in the form set forth in Section 6(c) of the Purchase Agreement with such changes as are customary in connection with the

preparation of a Registration Statement and (ii) its independent public accountants to deliver to such Initial Purchaser or such Participating Broker-Dealer a comfort letter, in customary form, meeting the requirements as to the substance thereof as set forth in Section 6(a) of the Purchase Agreement, with appropriate date changes.

(s) If a Registered Exchange Offer or a Private Exchange is to be consummated, upon delivery of the Initial Securities by Holders to the Company (or to such other Person as directed by the Company) in exchange for the Exchange Securities or the Private Exchange Securities, as the case may be, the Company shall mark, or caused to be marked, on the Initial Securities so exchanged that such Initial Securities are being canceled in exchange for the Exchange Securities or the Private Exchange Securities, as the case may be; in no event shall the Initial Securities be marked as paid or otherwise satisfied.

(t) The Company will use its best efforts to (a) if the Initial Securities have been rated prior to the initial sale of such Initial Securities, confirm such ratings will apply to the Securities covered by a Registration Statement, or (b) if the Initial Securities were not previously rated, cause the Securities covered by a Registration Statement to be rated with the appropriate rating agencies, if so requested by Holders of a majority in aggregate principal amount of Securities covered by such Registration Statement, or by the Managing Underwriters, if any.

(u) In the event that any broker-dealer registered under the Exchange Act shall underwrite any Securities or participate as a member of an underwriting syndicate or selling group or "assist in the distribution" (within the meaning of the Conduct Rules (the "Rules") of the National Association of Securities Dealers, Inc. ("NASD")) thereof, whether as a Holder of such Securities or as an underwriter, a placement or sales agent or a broker or dealer in respect thereof, or otherwise, the Company will assist such broker-dealer in complying with the requirements of such Rules, including, without limitation, by (i) if such Rules, including Rule 2720, shall so require, engaging a "qualified independent underwriter" (as defined in Rule 2720) to participate in the preparation of the Registration Statement relating to such Securities, to exercise usual standards of due diligence in respect thereto and, if any portion of the offering contemplated by such Registration Statement is an underwritten offering or is made through a placement or sales agent, to recommend the yield of such Securities, (ii) indemnifying any such qualified independent underwriter to the extent of the indemnification of underwriters provided in Section 5 hereof and (iii) providing such information to such broker-dealer as may be required in order for such broker-dealer to comply with the requirements of the Rules.

(v) The Company shall use its best efforts to take all other steps necessary to effect the registration of the Securities covered by a Registration Statement contemplated hereby.

4. Registration Expenses. (a) All expenses incident to the Company's performance of and compliance with this Agreement will be borne by the Company, regardless of whether a Registration Statement is ever filed or becomes effective, including without limitation;

(i) all registration and filing fees and expenses;

(ii) all fees and expenses of compliance with federal securities and state "blue sky" or securities laws;

(iii) all expenses of printing (including printing certificates for the Securities to be issued in the Registered Exchange Offer and the Private Exchange and printing of prospectuses), messenger and delivery services and telephone;

(iv) all fees and disbursements of counsel for the Company;

(v) all application and filing fees in connection with listing the Exchange Securities on a national securities exchange or automated quotation system pursuant to the requirements hereof; and

(vi) all fees and disbursements of independent certified public accountants of the Company (including the expenses of any special audit and comfort letters required by or incident to such performance).

The Company will bear its internal expenses (including, without limitation, all salaries and expenses of its officers and employees performing legal or accounting duties), the expenses of any annual audit and the fees and expenses of any person, including special experts, retained by the Company.

(b) In connection with any Registration Statement required by this Agreement, the Company will reimburse the Initial Purchasers and the Holders of Transfer Restricted Securities who are tendering Initial Securities in the Registered Exchange Offer and/or selling or reselling Securities pursuant to the "Plan of Distribution" contained in the Exchange Offer Registration Statement or the Shelf Registration Statement, as applicable, for the reasonable fees and disbursements of not more than one counsel, who shall be Cravath Swaine & Moore unless another firm shall be chosen by the Holders of a majority in principal amount of the Transfer Restricted Securities for whose benefit such Registration Statement is being prepared.

5. Indemnification. (a) The Company agrees to indemnify and hold harmless each Holder of the Securities, any Participating Broker-Dealer and each person, if any, who controls such Holder or such Participating Broker-Dealer within the meaning of the Securities Act or the Exchange Act (each Holder, any Participating Broker-Dealer and such controlling persons are referred to collectively as the "Indemnified Parties") from and against any losses, claims, damages or liabilities, joint or several, or any actions in respect thereof (including, but not limited to, any losses, claims, damages, liabilities or actions relating to purchases and sales of the Securities) to which each Indemnified Party may become subject under the Securities Act, the Exchange Act or otherwise, insofar as such losses, claims, damages, liabilities or actions arise out of or are based upon any untrue statement or alleged untrue statement of a material fact contained in a Registration Statement or prospectus or in any amendment or supplement thereto or in any preliminary prospectus relating to a Shelf Registration, or arise out of, or are based upon, the omission or alleged omission to state therein a material fact required to be stated therein or necessary to make the statements therein not misleading, and shall reimburse, as incurred, the Indemnified Parties for any legal or other expenses reasonably incurred by them in connection with investigating or defending any such loss, claim, damage, liability or action in respect thereof; provided, however, that (i) the Company shall not be liable in any such case to the extent that such loss, claim, damage or liability arises out of or is based upon any untrue statement or alleged untrue statement or omission or alleged omission made in a Registration Statement or prospectus or in any amendment or supplement thereto or in any preliminary prospectus relating to a Shelf Registration in reliance upon and in conformity with written information pertaining to such Holder and furnished to the Company by or on behalf of such Holder specifically for inclusion therein and (ii) with respect to any untrue statement or omission or alleged untrue statement or omission made in any preliminary prospectus relating to a Shelf Registration Statement, the indemnity agreement contained in this subsection (a) shall not inure to the benefit of any Holder or Participating Broker-Dealer from whom the person asserting any such losses, claims, damages or liabilities purchased the Securities concerned, to the extent that a prospectus relating to such Securities was required to be delivered by such Holder or Participating Broker-Dealer under the Securities Act in connection with such purchase and any such loss, claim, damage or liability of such Holder or Participating Broker-Dealer results from the fact that there was not sent or given to such person, at or prior to the written confirmation of the sale of such Securities to such person, a copy of the final prospectus if the Company had previously furnished copies thereof to such Holder or Participating Broker-Dealer; provided further, however, that this indemnity agreement will be in addition to any liability which the Company may otherwise have to such Indemnified Party. The Company

shall also indemnify underwriters, their officers and directors and each person who controls such underwriters within the meaning of the Securities Act or the Exchange Act to the same extent as provided above with respect to the indemnification of the Holders of the Securities if requested by such Holders.

(b) Each Holder of the Securities, severally and not jointly, will indemnify and hold harmless the Company and each person, if any, who controls the Company within the meaning of the Securities Act or the Exchange Act from and against any losses, claims, damages or liabilities or any actions in respect thereof, to which the Company or any such controlling person may become subject under the Securities Act, the Exchange Act or otherwise, insofar as such losses, claims, damages, liabilities or actions arise out of or are based upon any untrue statement or alleged untrue statement of a material fact contained in a Registration Statement or prospectus or in any amendment or supplement thereto or in any preliminary prospectus relating to a Shelf Registration, or arise out of or are based upon the omission or alleged omission to state therein a material fact necessary to make the statements therein not misleading, but in each case only to the extent that the untrue statement or omission or alleged untrue statement or omission was made in reliance upon and in conformity with written information pertaining to such Holder and furnished to the Company by or on behalf of such Holder specifically for inclusion therein; and, subject to the limitation set forth immediately preceding this clause, shall reimburse, as incurred, the Company for any legal or other expenses reasonably incurred by the Company or any such controlling person in connection with investigating or defending any loss, claim, damage, liability or action in respect thereof. This indemnity agreement will be in addition to any liability which such Holder may otherwise have to the Company or any of its controlling persons.

(c) Promptly after receipt by an indemnified party under this Section 5 of notice of the commencement of any action or proceeding (including a governmental investigation), such indemnified party will, if a claim in respect thereof is to be made against the indemnifying party under this Section 5, notify the indemnifying party of the commencement thereof; but the omission so to notify the indemnifying party (i) will not relieve the indemnifying party from liability under paragraph (a) or (b) above unless and to the extent it did not otherwise learn of such action and the indemnifying party has been materially prejudiced by such failure and (ii) will not, in any event, relieve the indemnifying party from any obligations to any indemnified party other than the indemnification obligation provided in paragraph (a) or (b) above. In case any such action is brought against any indemnified party, and it notifies the indemnifying party of the commencement thereof, the indemnifying party will be entitled to participate therein and, to the extent that it may wish, jointly with any other indemnifying party similarly notified, to assume the defense thereof, with counsel reasonably satisfactory to such indemnified party (who shall not, except with the consent of the indemnified party, be counsel to the indemnifying party), and after notice from the indemnifying party to such indemnified party of its election so to assume the defense thereof the indemnifying party will not be liable to such indemnified party under this Section 5 for any legal or other expenses, other than reasonable costs of investigation, subsequently incurred by such indemnified party in connection with the defense thereof. No indemnifying party shall, without the prior written consent of the indemnified party, effect any settlement of any pending or threatened action in respect of which any indemnified party is or could have been a party and indemnity could have been sought hereunder by such indemnified party unless such settlement includes an unconditional release of such indemnified party from all liability on any claims that are the subject matter of such action, and does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(d) If the indemnification provided for in this Section 5 is unavailable or insufficient to hold harmless an indemnified party under subsections (a) or (b) above, then each indemnifying party shall contribute to the amount paid or payable by such indemnified party as a result of the losses, claims, damages or liabilities (or actions in respect thereof) referred to in subsection (a) or (b) above (i) in such proportion as is appropriate to reflect the relative benefits received by the indemnifying party or parties on the one hand and the indemnified party on the other from the exchange of the Securities, pursuant to the Registered Exchange Offer, or (ii) if the allocation provided by the foregoing clause (i) is not permitted by

applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of the indemnifying party or parties on the one hand and the indemnified party on the other in connection with the statements or omissions that resulted in such losses, claims, damages or liabilities (or actions in respect thereof) as well as any other relevant equitable considerations. The relative fault of the parties shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or the omission or alleged omission to state a material fact relates to information supplied by the Company on the one hand or such Holder or such other indemnified party, as the case may be, on the other, and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission. The amount paid by an indemnified party as a result of the losses, claims, damages or liabilities referred to in the first sentence of this subsection (d) shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any action or claim which is the subject of this subsection (d). Notwithstanding any other provision of this Section 5(d), the Holders of the Securities shall not be required to contribute any amount in excess of the amount by which the net proceeds received by such Holders from the sale of the Securities pursuant to a Registration Statement exceeds the amount of damages which such Holders have otherwise been required to pay by reason of such untrue or alleged untrue statement or omission or alleged omission. No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. For purposes of this paragraph (d), each person, if any, who controls such indemnified party within the meaning of the Securities Act or the Exchange Act shall have the same rights to contribution as such indemnified party and each person, if any, who controls the Company within the meaning of the Securities Act or the Exchange Act shall have the same rights to contribution as the Company.

(e) The agreements contained in this Section 5 shall survive the sale of the Securities pursuant to a Registration Statement and shall remain in full force and effect, regardless of any termination or cancellation of this Agreement or any investigation made by or on behalf of any indemnified party.

6. Additional Interest Under Certain Circumstances. (a) Additional interest (the "Additional Interest") with respect to the Securities shall be assessed as follows if any of the following events occur (each such event in clauses (i) through (iv) below being herein called a "Registration Default"):

- (i) any Registration Statement required by this Agreement is not filed with the Commission on or prior to the applicable Filing Deadline;
- (ii) any Registration Statement required by this Agreement is not declared effective by the Commission on or prior to the applicable Effectiveness Deadline;
- (iii) the Registered Exchange Offer has not been consummated on or prior to the Consummation Deadline; or
- (iv) any Registration Statement required by this Agreement has been declared effective by the Commission but (A) such Registration Statement thereafter ceases to be effective or (B) such Registration Statement or the related prospectus ceases to be usable in connection with resales of Transfer Restricted Securities during the periods specified herein because either (1) any event occurs as a result of which the related prospectus forming part of such Registration Statement would include any untrue statement of a material fact or omit to state any material fact necessary to make the statements therein in the light of the circumstances under which they were made not misleading or (2) it shall be necessary to amend such Registration Statement or supplement the related prospectus, to comply with the Securities Act or the Exchange Act or the respective rules thereunder.

Each of the foregoing will constitute a Registration Default whatever the reason for any such event and whether it is voluntary or involuntary or is beyond the control of the Company or pursuant to operation of law or as a result of any action or inaction by the Commission.

Additional Interest shall accrue on the Securities over and above the interest set forth in the title of the Securities from and including the date on which any such Registration Default shall occur to but excluding the date on which all such Registration Defaults have been cured, at a rate of 0.50% per annum (the "Additional Interest Rate") for the first 90-day period immediately following the occurrence of such Registration Default. The Additional Interest Rate shall increase by an additional 0.50% per annum with respect to each subsequent 90-day period until all Registration Defaults have been cured, up to a maximum Additional Interest Rate of 2.0% per annum.

(b) A Registration Default referred to in Section 6(a)(iv) hereof shall be deemed not to have occurred and be continuing in relation to a Shelf Registration Statement or the related prospectus if (i) such Registration Default has occurred solely as a result of (x) the filing of a post-effective amendment to such Shelf Registration Statement to incorporate annual audited financial information with respect to the Company where such post-effective amendment is not yet effective and needs to be declared effective to permit Holders to use the related prospectus or (y) other material events with respect to the Company that would need to be described in such Shelf Registration Statement or the related prospectus and (ii) in the case of clause (y), the Company is proceeding promptly and in good faith to amend or supplement such Shelf Registration Statement and related prospectus to describe such events; provided, however, that in any case if such Registration Default occurs for a continuous period in excess of 30 days, Additional Interest shall be payable in accordance with the above paragraph from the day such Registration Default occurs until such Registration Default is cured.

(c) Any amounts of Additional Interest due pursuant to Section 6(a) will be payable in cash on the regular interest payment dates with respect to the Securities. The amount of Additional Interest will be determined by multiplying the applicable Additional Interest Rate by the principal amount of the Securities and further multiplied by a fraction, the numerator of which is the number of days such Additional Interest Rate was applicable during such period (determined on the basis of a 360-day year comprised of twelve 30-day months), and the denominator of which is 360.

(d) "Transfer Restricted Securities" means each Security until (i) the date on which such Security has been exchanged by a person other than a broker-dealer for a freely transferable Exchange Security in the Registered Exchange Offer, (ii) following the exchange by a broker-dealer in the Registered Exchange Offer of an Initial Security for an Exchange Note, the date on which such Exchange Note is sold to a purchaser who receives from such broker-dealer on or prior to the date of such sale a copy of the prospectus contained in the Exchange Offer Registration Statement, (iii) the date on which such Security has been effectively registered under the Securities Act and disposed of in accordance with the Shelf Registration Statement or (iv) the date on which such Security is distributed to the public pursuant to Rule 144 under the Securities Act or is saleable pursuant to Rule 144(k) under the Securities Act.

7. Rules 144 and 144A. The Company shall use its best efforts to file the reports required to be filed by it under the Securities Act and the Exchange Act in a timely manner and, if at any time the Company is not required to file such reports, it will, upon the request of any Holder of Securities, make publicly available other information so long as necessary to permit sales of their securities pursuant to Rules 144 and 144A. The Company covenants that it will take such further action as any Holder of Securities may reasonably request, all to the extent required from time to time to enable such Holder to sell Securities without registration under the Securities Act within the limitation of the exemptions provided by Rules 144 and 144A (including the requirements of Rule 144A(d)(4)). The Company will provide a copy of this Agreement to prospective purchasers of Initial Securities identified to the Company by the Initial Purchasers upon request. Upon the request of any Holder of Initial Securities, the Company shall deliver to

such Holder a written statement as to whether it has complied with such requirements. Notwithstanding the foregoing, nothing in this Section 7 shall be deemed to require the Company to register any of its securities pursuant to the Exchange Act.

8. Underwritten Registrations. If any of the Transfer Restricted Securities covered by any Shelf Registration are to be sold in an underwritten offering, the investment banker or investment bankers and manager or managers that will administer the offering ("Managing Underwriters") will be selected by the Holders of a majority in aggregate principal amount of such Transfer Restricted Securities to be included in such offering.

No person may participate in any underwritten registration hereunder unless such person (i) agrees to sell such person's Transfer Restricted Securities on the basis reasonably provided in any underwriting arrangements approved by the persons entitled hereunder to approve such arrangements and (ii) completes and executes all questionnaires, powers of attorney, indemnities, underwriting agreements and other documents reasonably required under the terms of such underwriting arrangements.

9. Miscellaneous.

(a) Remedies. The Company acknowledges and agrees that any failure by the Company to comply with its obligations under Sections 1 and 2 hereof may result in material irreparable injury to the Initial Purchasers or the Holders for which there is no adequate remedy at law, that it will not be possible to measure damages for such injuries precisely and that, in the event of any such failure, the Initial Purchasers or any Holder may obtain such relief as may be required to specifically enforce the Company's obligations under Sections 1 and 2 hereof. The Company further agrees to waive the defense in any action for specific performance that a remedy at law would be adequate.

(b) No Inconsistent Agreements. The Company will not on or after the date of this Agreement enter into any agreement with respect to its securities that is inconsistent with the rights granted to the Holders in this Agreement or otherwise conflicts with the provisions hereof. The rights granted to the Holders hereunder do not in any way conflict with and are not inconsistent with the rights granted to the holders of the Company's securities under any agreement in effect on the date hereof.

(c) Amendments and Waivers. The provisions of this Agreement may not be amended, modified or supplemented, and waivers or consents to departures from the provisions hereof may not be given, except by the Company and the written consent of the Holders of a majority in principal amount of the Securities affected by such amendment, modification, supplement, waiver or consents.

(d) Notices. All notices and other communications provided for or permitted hereunder shall be made in writing by hand delivery, first-class mail, facsimile transmission, or air courier which guarantees overnight delivery:

(1) if to a Holder of the Securities, at the most current address given by such Holder to the Company.

(2) if to the Initial Purchasers:

Salomon Smith Barney Inc.
388 Greenwich Street
New York, NY 10013
Fax No.: (214)979-7938
Attention: Stephen P. Cunningham

with a copy to:

Cravath, Swaine & Moore
Worldwide Plaza
825 Eighth Avenue
New York, NY 10019-7475
Fax No.: (212) 474-3700
Attention: Stephen L. Burns, Esq.

(3) if to the Company, at its address as follows:

Chesapeake Energy Corporation
6100 North Western Avenue
Oklahoma City, OK 73118
Fax No.: (405) 848-8588
Attention: Marcus C. Rowland

with a copy to:

Vinson & Elkins L.L.P.
2300 First City Tower
1001 Fannin Street
Houston, TX 77002-6760
Fax No.: (713) 758-2346
Attention: Jim Prince, Esq.

All such notices and communications shall be deemed to have been duly given: at the time delivered by hand, if personally delivered; three business days after being deposited in the mail, postage prepaid, if mailed; when receipt is acknowledged by recipient's facsimile machine operator, if sent by facsimile transmission; and on the day delivered, if sent by overnight air courier guaranteeing next day delivery.

(e) Third Party Beneficiaries. The Holders shall be third party beneficiaries to the agreements made hereunder between the Company, on the one hand, and the Initial Purchasers, on the other hand, and shall have the right to enforce such agreements directly to the extent they may deem such enforcement necessary or advisable to protect their rights or the rights of Holders hereunder.

(f) Successors and Assigns. This Agreement shall be binding upon the Company and its successors and assigns.

(g) Counterparts. This Agreement may be executed in any number of counterparts and by the parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement.

(h) Headings. The headings in this Agreement are for convenience of reference only and shall not limit or otherwise affect the meaning hereof.

(i) Governing Law. THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAWS.

(j) Severability. If any one or more of the provisions contained herein, or the application thereof in any circumstance, is held invalid, illegal or unenforceable, the validity, legality and enforceability of any such provision in every other respect and of the remaining provisions contained herein shall not be affected or impaired thereby.

(k) Securities Held by the Company. Whenever the consent or approval of Holders of a specified percentage of principal amount of Securities is required hereunder, Securities held by the Company or its affiliates (other than subsequent Holders of Securities if such subsequent Holders are deemed to be affiliates solely by reason of their holdings of such Securities) shall not be counted in determining whether such consent or approval was given by the Holders of such required percentage.

If the foregoing is in accordance with your understanding of our agreement, please sign and return to the Issuer a counterpart hereof, whereupon this instrument, along with all counterparts, will become a binding agreement among the several Initial Purchasers, the Issuer and the Guarantors in accordance with its terms.

Very truly yours,

CHESAPEAKE ENERGY CORPORATION

By: /s/ Aubrey K. McClendon

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

SUBSIDIARY GUARANTORS:

THE AMES COMPANY, L.L.C.
CARMEN ACQUISITION, L.L.C.
CHESAPEAKE ACQUISITION, L.L.C.
CHESAPEAKE EP CORPORATION
CHESAPEAKE DELTA CORP.
CHESAPEAKE ENERGY LOUISIANA CORPORATION
CHESAPEAKE ENO ACQUISITION, L.L.C.
CHESAPEAKE FOCUS, L.L.C.
CHESAPEAKE KNAN ACQUISITION, L.L.C.
CHESAPEAKE MOUNTAIN FRONT, L.L.C.
CHESAPEAKE OPERATING, INC.
CHESAPEAKE ORC, L.L.C.
CHESAPEAKE ROYALTY, L.L.C.
GOTHIC ENERGY, L.L.C.
GOTHIC PRODUCTION, L.L.C.
NOMAC DRILLING CORPORATION
SAP ACQUISITION, L.L.C.

By: /s/ Aubrey K. McClendon

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

CHESAPEAKE EXPLORATION LIMITED PARTNERSHIP
CHESAPEAKE LOUISIANA, L.P.
CHESAPEAKE PANHANDLE LIMITED PARTNERSHIP
CHESAPEAKE-STAGHORN ACQUISITION L.P.
CHESAPEAKE SIGMA, L.P.

By Chesapeake Operating, Inc., as general partner of each respective entity

By: /s/ Aubrey K. McClendon

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

The foregoing Registration Rights Agreement

is hereby confirmed and accepted
as of the date first above written.

SALOMON SMITH BARNEY INC.
BEAR, STEARNS & CO. INC.
CREDIT SUISSE FIRST BOSTON LLC
LEHMAN BROTHERS INC.
MORGAN STANLEY & CO. INCORPORATED
BNP PARIBAS SECURITIES CORP.
CREDIT LYONNAIS SECURITIES (USA) INC.
TD SECURITIES (USA) INC.

Acting on behalf of themselves and as Representative of the several Initial
Purchasers

By: SALOMON SMITH BARNEY INC.

By: /s/ Brian Byrne

Name: Brian Byrne
Title: Vice President

Each broker-dealer that receives Exchange Securities for its own account pursuant to the Exchange Offer must acknowledge that it will deliver a prospectus in connection with any resale of such Exchange Securities. The Letter of Transmittal states that by so acknowledging and by delivering a prospectus, a broker-dealer will not be deemed to admit that it is an "underwriter" within the meaning of the Securities Act. This Prospectus, as it may be amended or supplemented from time to time, may be used by a broker-dealer in connection with resales of Exchange Securities received in exchange for Initial Securities where such Initial Securities were acquired by such broker-dealer as a result of market-making activities or other trading activities. The Company has agreed that, for a period of 90 days after the Expiration Date (as defined herein), it will make this Prospectus available to any broker-dealer for use in connection with any such resale. See "Plan of Distribution."

Each broker-dealer that receives Exchange Securities for its own account in exchange for Initial Securities, where such Initial Securities were acquired by such broker-dealer as a result of market-making activities or other trading activities, must acknowledge that it will deliver a prospectus in connection with any resale of such Exchange Securities. See "Plan of Distribution."

PLAN OF DISTRIBUTION

Each broker-dealer that receives Exchange Securities for its own account pursuant to the Exchange Offer must acknowledge that it will deliver a prospectus in connection with any resale of such Exchange Securities. This Prospectus, as it may be amended or supplemented from time to time, may be used by a broker-dealer in connection with resales of Exchange Securities received in exchange for Initial Securities where such Initial Securities were acquired as a result of market-making activities or other trading activities. The Company has agreed that, for a period of 90 days after the Expiration Date, it will make this prospectus, as amended or supplemented, available to any broker-dealer for use in connection with any such resale. In addition, until _____, 2000, all dealers effecting transactions in the Exchange Securities may be required to deliver a prospectus. (1)

The Company will not receive any proceeds from any sale of Exchange Securities by broker-dealers. Exchange Securities received by broker-dealers for their own account pursuant to the Exchange Offer may be sold from time to time in one or more transactions in the over-the-counter market, in negotiated transactions, through the writing of options on the Exchange Securities or a combination of such methods of resale, at market prices prevailing at the time of resale, at prices related to such prevailing market prices or negotiated prices. Any such resale may be made directly to purchasers or to or through brokers or dealers who may receive compensation in the form of commissions or concessions from any such broker-dealer or the purchasers of any such Exchange Securities. Any broker-dealer that resells Exchange Securities that were received by it for its own account pursuant to the Exchange Offer and any broker or dealer that participates in a distribution of such Exchange Securities may be deemed to be an "underwriter" within the meaning of the Securities Act and any profit on any such resale of Exchange Securities and any commission or concessions received by any such persons may be deemed to be underwriting compensation under the Securities Act. The Letter of Transmittal states that, by acknowledging that it will deliver and by delivering a prospectus, a broker-dealer will not be deemed to admit that it is an "underwriter" within the meaning of the Securities Act.

For a period of 90 days after the Expiration Date the Company will promptly send additional copies of this Prospectus and any amendment or supplement to this Prospectus to any broker-dealer that requests such documents in the Letter of Transmittal. The Company has agreed to pay all expenses incident to the Exchange Offer (including the expenses of one counsel for the Holders of the Securities) other than commissions or concessions of any brokers or dealers and will indemnify the Holders of the Securities (including any broker-dealers) against certain liabilities, including liabilities under the Securities Act.

CHECK HERE IF YOU ARE A BROKER-DEALER AND WISH TO RECEIVE 10 ADDITIONAL COPIES OF THE PROSPECTUS AND 10 COPIES OF ANY AMENDMENTS OR SUPPLEMENTS THERETO.

Name:

Address:

If the undersigned is not a broker-dealer, the undersigned represents that it is not engaged in, and does not intend to engage in, a distribution of Exchange Securities. If the undersigned is a broker-dealer that will receive Exchange Securities for its own account in exchange for Initial Securities that were acquired as a result of market-making activities or other trading activities, it acknowledges that it will deliver a prospectus in connection with any resale of such Exchange Securities; however, by so acknowledging and by delivering a prospectus, the undersigned will not be deemed to admit that it is an "underwriter" within the meaning of the Securities Act.

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(1) In addition, the legend required by Item 502(e) of Regulation S-K will appear on the back cover page of the Exchange Offer prospectus.

[LETTERHEAD OF VINSON & ELKINS L.L.P.]

April 8, 2003

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

Ladies and Gentlemen:

We have acted as counsel for Chesapeake Energy Corporation, an Oklahoma corporation (the "Company") and certain of its subsidiaries with respect to with the preparation of the Registration Statement on Form S-4 (the "Registration Statement") filed with the Securities and Exchange Commission (the "Commission") in connection with the registration by the Company under the Securities Act of 1933, as amended (the "Securities Act") of (i) the offer and exchange by the Company (the "Exchange Offer") of \$300,000,000 aggregate principal amount of its 7.50% Senior Notes due 2013 (the "Initial Notes"), for a new series of notes bearing substantially identical terms and in like principal amount (the "Exchange Notes") and (ii) the guarantees (the "Guarantees") of certain subsidiaries of the Company listed in the Registration Statement as guarantors (the "Subsidiary Guarantors") of the Initial Notes and the Exchange Notes. The Initial Notes and the Exchange Notes are collectively referred to herein as the "Notes". The Initial Notes were issued, and the Exchange Notes will be issued, under an Indenture dated as of March 5, 2003 among the Company, the Subsidiary Guarantors and The Bank of New York, as Trustee (the "Indenture"). The Exchange Offer will be conducted on such terms and conditions as are set forth in the prospectus contained in the Registration Statement to which this opinion is an exhibit.

We have examined originals or copies, certified or otherwise identified to our satisfaction, of (i) the Registration Statement, (ii) the Indenture and (iii) such other certificates, statutes and other instruments and documents as we considered appropriate for purposes of the opinions hereafter expressed. In connection with this opinion, we have assumed that the Registration Statement, and any amendments thereto (including post-effective amendments), will have become effective and the Exchange Notes will be issued and sold in compliance with applicable federal and state securities laws and in the manner described in the Registration Statement.

Based on the foregoing, we are of the opinion that when the Exchange Notes have been duly executed, authenticated, issued and delivered in accordance with the provisions of the Indenture, (i) such Exchange Notes will be legally issued and will constitute valid and binding obligations of the Company enforceable against the Company in accordance with their terms, and (ii) the Guarantees of the Subsidiary Guarantors remain valid and binding obligations of such subsidiaries, enforceable against the Company and each such Subsidiary Guarantor in accordance with their terms, except in each case as such enforcement is subject to any applicable bankruptcy, insolvency, reorganization or other law relating to or affecting creditors' rights generally and general principles of equity.

We express no opinions concerning (a) the validity or enforceability of any provisions contained in the Indenture that purport to waive or not give effect to rights to notices, defenses, subrogation or other rights or benefits that cannot be effectively waived under applicable law; or (b) the enforceability of indemnification provisions to the extent they purport to relate to liabilities resulting from or based upon negligence or any violation of federal or state securities or blue sky laws.

We are members of the bar of the State of Texas. We have relied as to matters of Oklahoma law on the opinion of Commercial Law Group, P.C., which opinion is also filed as an exhibit to the Registration Statement. The

opinions expressed herein are limited exclusively to the federal laws of the United States of America, the laws of the State of New York and, in reliance on the opinion of Commercial Law Group, P.C., the laws of the State of Oklahoma, and we are expressing no opinion as to the effect of the laws of any other jurisdiction, domestic or foreign.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the use of our firm name in the prospectus forming a part of the Registration Statement under the caption "Legal Matters." By giving such consent, we do not admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission issued thereunder.

Very truly yours,

/s/ Vinson & Elkins L.L.P.

Vinson & Elkins L.L.P.

Commercial Law Group, P.C.
2725 Oklahoma Tower, 210 Park Avenue
Oklahoma City, Oklahoma 73102-5643

April 8, 2003

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

Ladies and Gentlemen:

We have acted as special Oklahoma counsel for Chesapeake Energy Corporation, an Oklahoma corporation (the "Company") and certain of its subsidiaries with respect to the preparation of the Registration Statement on Form S-4 (the "Registration Statement") filed with the Securities and Exchange Commission (the "Commission") in connection with the registration by the Company under the Securities Act of 1933, as amended (the "Securities Act") of (i) the offer and exchange by the Company (the "Exchange Offer") of \$300,000,000 aggregate principal amount of its 7.50% Senior Notes due 2013 (the "Initial Notes"), for a new series of notes bearing substantially identical terms and in like principal amount (the "Exchange Notes") and (ii) the guarantees (the "Guarantees") of certain subsidiaries of the Company listed in the Registration Statement as guarantors (the "Subsidiary Guarantors") of the Initial Notes and the Exchange Notes. The Initial Notes and the Exchange Notes are collectively referred to herein as the "Notes". The Initial Notes were issued, and the Exchange Notes will be issued, under an Indenture dated as of March 5, 2003 among the Company, the Subsidiary Guarantors and The Bank of New York, as Trustee (the "Indenture"). The Exchange Offer will be conducted on such terms and conditions as are set forth in the prospectus contained in the Registration Statement to which this opinion is an exhibit.

We have examined originals or copies, certified or otherwise identified to our satisfaction, of (i) the Restated Certificate of Incorporation, as amended, and Bylaws of the Company or such documents or similar organizational documents of each of the Subsidiary Guarantors, (ii) the Indenture, (iii) the Initial Notes and (iv) such other certificates, statutes and other instruments and documents as we considered appropriate for purposes of the opinions hereafter expressed. In connection with this opinion, we have assumed that the Registration Statement, and any amendments thereto (including post-effective amendments), will have become effective and the Exchange Notes will be issued and sold in compliance with applicable federal and state securities laws and in the manner described in the Registration Statement.

Based on the foregoing, we are of the opinion that the Company and the Subsidiary Guarantors have duly authorized, executed and delivered the Indenture (including, with respect to the Subsidiary Guarantors, the Guarantees contained therein) and the Initial Notes.

We are members of the bar of the State of Oklahoma. The opinions expressed herein are limited exclusively to the laws of the State of Oklahoma, and we are expressing no opinion as to the effect of the laws of any other jurisdiction, domestic or foreign. We also authorize Vinson & Elkins L.L.P. to rely on this opinion in delivering its opinion.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the use of our firm name in the prospectus forming a part of the Registration Statement under the caption "Legal Matters." By giving such consent, we do not admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations of the Commission issued thereunder.

Very truly yours,

/s/ Commercial Law Group, P.C.

Commercial Law Group, P.C.

SUBSIDIARIES OF CHESAPEAKE ENERGY CORPORATION

Corporations

Chesapeake Delta Corp.
Chesapeake Energy Louisiana Corporation
Chesapeake Energy Marketing, Inc.
Chesapeake EP Corporation
Chesapeake Operating, Inc.
Nomac Drilling Corporation

Limited Liability Companies

The Ames Company, L.L.C.
Carmen Acquisition, L.L.C.
Chesapeake Acquisition, L.L.C.
Chesapeake ENO Acquisition, L.L.C.
Chesapeake Focus, L.L.C.
Chesapeake KNAN Acquisition, L.L.C.
Chesapeake Mountain Front, L.L.C.
Chesapeake ORC, L.L.C.
Chesapeake Royalty, L.L.C.
Gothic Energy, L.L.C.
Gothic Production, L.L.C.
Sap Acquisition, L.L.C.

Partnerships

Chesapeake Exploration Limited Partnership
Chesapeake Louisiana, L.P.
Chesapeake Panhandle Limited Partnership
Chesapeake Sigma, L.P.
Chesapeake-Staghorn Acquisition L.P.

CONSENT OF INDEPENDENT ACCOUNTANTS

We hereby consent to the incorporation by reference in this Registration Statement on Form S-4 of our report dated February 24, 2003 relating to the consolidated financial statements and financial statement schedule of Chesapeake Energy Corporation, which appears in Chesapeake Energy Corporation's Annual Report on Form 10-K for the year ended December 31, 2002. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ PricewaterhouseCoopers LLP

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PricewaterhouseCoopers LLP

Oklahoma City, Oklahoma
April 7, 2003

[WILLIAMSON PETROLEUM CONSULTANTS, INC. LETTERHEAD]

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-4, to be filed with the Securities and Exchange Commission on or about April 4, 2003, of information from our reserves report dated February 21, 2003 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, 2002, for Disclosure to the Securities and Exchange Commission, Williamson Project 2.8923." We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ Williamson Petroleum Consultants, Inc.

Williamson Petroleum Consultants, Inc.

Midland, Texas
April 4, 2003

[RYDER SCOTT COMPANY LETTERHEAD]

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-4, to be filed with the Securities and Exchange Commission on or about April 7, 2003, of information from our reserve report dated February 25, 2003, entitled "Chesapeake Energy Corporation--Estimated Future Reserves and Income Attributable to Certain Leasehold Interests as of December 31, 2002." We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ Ryder Scott Company, L.P.

Ryder Scott Company, L.P.

Houston, Texas
April 4, 2003

[LEE KEELING AND ASSOCIATES, INC. LETTERHEAD]

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 the Chesapeake Energy Corporation Registration Statement on Form S-4 to be filed on or about April 7, 2003, of information from our reserve report with respect to the oil and gas reserves of Chesapeake Energy Corporation dated February 21, 2003 and entitled "Appraisal Oil and Gas Properties Interests Owned by Chesapeake Energy Corporation Selected Properties Constant Prices and Expenses Effective Date January 1, 2003." We also consent to the reference to us under the heading "Experts" in such Registration Statement.

LEE KEELING AND ASSOCIATES, INC.

By: /s/ Kenneth Renberg

Kenneth Renberg, Vice President

Tulsa, Oklahoma
April 4, 2003

[NETHERLAND, SEWELL AND ASSOCIATES, INC. LETTERHEAD]

CONSENT OF NETHERLAND, SEWELL AND ASSOCIATES, INC.

As independent oil and gas consultants, Netherland, Sewell And Associates, Inc. hereby consents to the incorporation by reference in the Chesapeake Energy Corporation Registration Statement on Form S-4 to be filed on or about April 7, 2003, of information from our reserve report with respect to the oil and gas reserves of Chesapeake Energy Corporation dated March 8, 2003 and entitled "Estimate of Reserves and Future Revenue to the Chesapeake Energy Corporation Interest in Certain Oil and Gas Properties located in Oklahoma and Texas as of December 31, 2002, Based on Constant Prices and Costs in accordance with Securities And Exchange Commission Guidelines." We also consent to the reference to us under the heading "Experts" in such Registration Statement.

NETHERLAND, SEWELL AND ASSOCIATES, INC.

/s/ Frederick D. Sewell

Frederick D. Sewell
Chairman and Chief Executive Officer

Dallas, Texas
April 4, 2003

FORM T-1

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939 OF A
CORPORATION DESIGNATED TO ACT AS TRUSTEE

CHECK IF AN APPLICATION TO DETERMINE
ELIGIBILITY OF A TRUSTEE PURSUANT TO
SECTION 305(b)(2)

THE BANK OF NEW YORK
(Exact name of trustee as specified in its charter)

New York
(State of incorporation
if not a national bank)

13-5160382
(I.R.S. employer
identification no.)

One Wall Street, New York, N.Y.
(Address of principal executive offices)

10286
(Zip code)

CHESAPEAKE ENERGY CORPORATION

(Exact name of obligor as specified in its charter)

Oklahoma
(State or other jurisdiction of
incorporation or organization)

73-1395733
(I.R.S. employer
identification No.)

6100 North Western Avenue
Oklahoma City, Oklahoma
(Address of principal executive offices)

73118
(Zip code)

7.50 % Senior Notes due 2013
(Title of the indenture securities)

1. General information. Furnish the following information as to the Trustee:

(a) Name and address of each examining or supervising authority to which it is subject.

Name	Address
Superintendent of Banks of the State of New York	2 Rector Street, New York, N.Y. 10006, and Albany, N.Y. 12203
Federal Reserve Bank of New York	33 Liberty Plaza, New York, N.Y. 10045
Federal Deposit Insurance Corporation	Washington, D.C. 20429
New York Clearing House Association	New York, New York 10005

(b) Whether it is authorized to exercise corporate trust powers. Yes.

2. Affiliations with Obligor.

If the obligor is an affiliate of the trustee, describe each such affiliation.

None.

16. List of Exhibits.

Exhibits identified in parentheses below, on file with the Commission, are incorporated herein by reference as an exhibit hereto, pursuant to Rule 7a-29 under the Trust Indenture Act of 1939 and rule 24 of the Commission's Rules of Practice.

1. A copy of the Organization Certificate of The Bank of New York (formerly Irving Trust Company) as now in effect, which contains the authority to commence business and a grant of powers to exercise corporate trust powers. (Exhibit 1 to Amendment No.1 to Form T-1, filed with Registration Statement No. 33-6215, Exhibits 1a and 1b to Form T-1 filed with Registration Statement No. 33-21672 and Exhibit 1 to Form T-1 filed with Registration Statement No. 33-29637.)
4. A copy of the existing By-laws of the Trustee. (Exhibit 4 to Form T-1 filed with Registration Statement No. 33-31019.)

6. The consent of the Trustee required by Section 321(b) of the Act.
(Exhibit 6 to Form T-1 filed with Registration Statement No. 33-44051.)
7. A copy of the latest report of condition of the Trustee published pursuant to law or to the requirements of its supervising or examining authority.

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939 the Trustee, The Bank of New York, a corporation organized and existing under the laws of the State of New York, has duly caused this statement of eligibility to be signed on its behalf by the undersigned, thereunto duly authorized, all in The City of New York, and State of New York, on the 7th day of April, 2003.

THE BANK OF NEW YORK

By: /s/ Louis P. Young

Louis P. Young
Vice President

Consolidated Report of Condition of

THE BANK OF NEW YORK

of One Wall Street, New York, N.Y. 10286
And Foreign and Domestic Subsidiaries,

a member of the Federal Reserve System, at the close of business September 30, 2002, published in accordance with a call made by the Federal Reserve Bank of this District pursuant to the provisions of the Federal Reserve Act.

ASSETS	Dollar Amounts In Thousands
Cash and balances due from depository institutions:	
Noninterest-bearing balances and currency and coin	\$3,735,469
Interest-bearing balances	3,791,026
Securities:	
Held-to-maturity securities	1,140,688
Available-for-sale securities	15,232,384
Federal funds sold in domestic offices	1,286,657
Securities purchased under agreements to resell	1,035,718
Loans and lease financing receivables:	
Loans and leases held for sale	869,285
Loans and leases, net of unearned income	34,695,130
LESS: Allowance for loan and lease losses	645,382
Loans and leases, net of unearned income and allowance	34,049,748
Trading Assets	9,044,881
Premises and fixed assets (including capitalized leases)	823,722
Other real estate owned	778
Investments in unconsolidated subsidiaries and associated companies	226,274
Customers' liability to this bank on acceptances outstanding	249,803
Intangible assets	
Goodwill	1,852,232
Other intangible assets	54,714
Other assets	4,961,572

Total assets	\$78,354,951 =====

LIABILITIES

Deposits:

In domestic offices		\$32,962,289
Noninterest-bearing	12,792,415	
Interest-bearing	20,169,874	
In foreign offices, Edge and Agreement subsidiaries, and IBFs		24,148,516
Noninterest-bearing	445,725	
Interest-bearing	23,702,791	
Federal funds purchased in domestic offices		959,287
Securities sold under agreements to repurchase		491,806
Trading liabilities		2,916,377
Other borrowed money: (includes mortgage indebtedness and obligations under capitalized leases)		1,691,634
Bank's liability on acceptances executed and outstanding		251,701
Subordinated notes and debentures		2,090,000
Other liabilities		5,815,688

Total liabilities		\$71,327,298
		=====
Minority interest in consolidated subsidiaries		500,019

EQUITY CAPITAL

Perpetual preferred stock and related surplus		0
Common stock		1,135,284
Surplus		1,056,724
Retained earnings		4,218,003
Accumulated other comprehensive income		(117,623)
Other equity capital components		0
Total equity capital		6,527,634

Total liabilities minority interest and equity capital		\$78,354,951
		=====

I, Thomas J. Mastro, Senior Vice President and Comptroller of the above-named bank do hereby declare that this Report of Condition is true and correct to the best of my knowledge and belief.

Thomas J. Mastro,
Senior Vice President and Comptroller

We, the undersigned directors, attest to the correctness of this statement of resources and liabilities. We declare that it has been examined by us, and to the best of our knowledge and belief has been prepared in conformance with the instructions and is true and correct.

Thomas A. Renyi)
Gerald L. Hassell) Directors
Alan R. Griffith)