

RANGE RESOURCES CORP
Form S-3ASR
February 24, 2012
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As filed with the Securities and Exchange Commission on February 24, 2012

Registration No. 333-

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form S-3
REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

Range Resources Corporation

and guarantors identified in footnote (1) below

(Exact name of registrant as specified in its charter)

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(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification Number)

David P. Poole

Range Resources Corporation

100 Throckmorton Street, Suite 1200

100 Throckmorton Street, Suite 1200

Fort Worth, Texas 76102

Fort Worth, Texas 76102

(817) 870-2601

(817) 869-4254

(Address, including zip code, and telephone number,

(Name, address, including zip code, and telephone number,

including area code, of registrant's principal executive offices)

including area code, of agent for service)

Copy to:

Kevin P. Lewis

Stephen M. Gill

Vinson & Elkins L.L.P.

2500 First City Tower

1001 Fannin Street

Houston, Texas 77002

(713) 758-2222

Approximate date of commencement of proposed sale to the public: From time to time after this Registration Statement becomes effective. If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are being offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, as amended (the Securities Act), other than securities offered only in connection with dividend or interest reinvestment plans, please 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, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

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

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional class of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of large accelerated filer, accelerated filer and smaller reporting company in Rule 12b-2 of the Exchange Act. (Check one):

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Large accelerated filer
 Non-accelerated filer (Do not check if a smaller reporting company)

Accelerated filer
 Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered	Proposed maximum offering price per unit	Proposed maximum aggregate offering price	Amount of registration fee
Debt Securities Guarantees of Debt Securities (1)	(2)	(2)	(2)	(2)

- (1) The following direct and indirect domestic subsidiaries of Range Resources Corporation will be guarantors of the Debt Securities registered hereunder and, therefore, have been listed as Co-Registrants for the purpose of providing guarantees relating to the Debt Securities registered hereunder. The Co-Registrants are organized under the laws of the state indicated and have the I.R.S. Employer Identification Number indicated: American Energy Systems, LLC, a Delaware limited liability company (33-1218104); Energy Assets Operating Company, LLC, a Delaware limited liability company (76-0597224); Range Energy Services Company, LLC, a Delaware limited liability company (75-2423912); Range Operating New Mexico, LLC, a Delaware limited liability company (73-1523738); Range Production Company, a Delaware corporation (80-0571783); Range Resources Appalachia, LLC, a Delaware limited liability company (34-1902948); Range Resources Midcontinent, LLC, a Delaware limited liability company (73-1504725); Range Resources Pine Mountain, Inc., a Delaware corporation (56-2381865) and Range Texas Production, LLC, a Delaware limited liability company (71-1035313).
- (2) An indeterminate aggregate initial offering price or number of the securities of each identified class is being registered as may from time to time be offered hereunder at indeterminate prices. In accordance with Rules 456(b) and 457(r) under the Securities Act of 1933, the registrant is deferring payment of all of the registration fee and will pay the registration fee subsequently in advance or on a pay-as-you-go basis.

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PROSPECTUS

Range Resources Corporation

Debt Securities

Guarantees of Debt Securities

We may offer and sell securities from time to time in amounts, at prices and on terms that we will determine at the times of the offerings. This prospectus also covers guarantees of our obligations under any debt securities, which may be given from time to time by one or more of our direct or indirect domestic subsidiaries, on terms to be determined at the time of the offering.

We will provide the specific terms of the securities in one or more supplements to this prospectus. You should read this prospectus and the related prospectus supplements carefully before you invest in our securities. This prospectus may not be used to offer and sell our securities unless accompanied by a prospectus supplement describing the method and terms of the offering of those offered securities. We may sell the securities directly, or we may distribute them through underwriters or dealers.

You should read this prospectus and any supplement carefully before you invest.

AN INVESTMENT IN OUR SECURITIES INVOLVES RISKS. PLEASE READ THE RISK FACTORS DESCRIBED IN ANY ACCOMPANYING PROSPECTUS SUPPLEMENT, IN OUR ANNUAL REPORT ON FORM 10-K AND IN ANY OF THE DOCUMENTS WE INCORPORATE BY REFERENCE.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is February 24, 2012

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We have not authorized any dealer, salesman or other person to give any information or to make any representation other than those contained or incorporated by reference in this prospectus and the accompanying prospectus supplement. We take no responsibility for, and can provide no assurances as to the reliability of, any information that others may give you. This prospectus and the accompanying prospectus supplement are not an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate. This prospectus and the accompanying prospectus supplement are not an offer to sell or the solicitation of an offer to buy securities in any jurisdiction to any person to whom it is unlawful to make an offer or solicitation in that jurisdiction. The information contained in this prospectus and the accompanying prospectus supplement is accurate as of the dates on their covers. When we deliver this prospectus or an accompanying prospectus supplement or make a sale pursuant to this prospectus, we are not implying that the information is current as of the date of the delivery or sale.

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About this prospectus

This prospectus is part of a registration statement on Form S-3 that we filed with the Securities and Exchange Commission (SEC) using a shelf registration process. Under this shelf registration process, we may sell the securities described in this prospectus in one or more offerings. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the terms of the offering and the securities to be sold. This prospectus does not contain all of the information included in the registration statement. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with the additional information under the heading **Where You Can Find More Information**.

Unless otherwise noted herein, as used in this prospectus, **Range, Range Resources, we, our, ours, us** and the **Company** refer to Range Corporation and its consolidated subsidiaries, except where the context otherwise requires or as otherwise indicated.

Where you can find more information

This prospectus does not contain all of the information included in the registration statement and all of the exhibits and schedules thereto. For further information about the registrants, you should refer to the registration statement. Summaries of agreements or other documents in this prospectus are not necessarily complete. Please refer to the exhibits to the registration statement for complete copies of such documents.

We file annual, quarterly and other periodic reports, proxy statements and other information with the SEC. Our SEC filings are available over the Internet at the SEC's web site at <http://www.sec.gov>. You may also read and copy any document we file with the SEC at the SEC's public reference room located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information on the public reference room and its copy charges. Our common stock is listed on the New York Stock Exchange under the symbol **RRC**. You may also inspect our SEC reports and other information at the New York Stock Exchange, 20 Broad Street, New York, New York 10005, or at our website at <http://www.rangeresources.com>. Information on our website or any other website is not incorporated by reference herein and does not constitute a part of this prospectus.

Information we incorporate by reference

The SEC allows us to incorporate by reference the information we file with them, which means that we can disclose important information to you by referring you to those documents. The information incorporated by reference is an important part of this prospectus. Information that we file with the SEC after we file this prospectus will automatically update and may replace information in this prospectus and information previously filed with the SEC.

We incorporate by reference in this prospectus the documents listed below which we previously have filed with the SEC and any future filings made with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934 (excluding those filings made under Item 2.02 or 7.01 of Form 8-K) after we file this prospectus until the offering of the securities terminates or we have filed with the SEC an amendment to the registration statement relating to this offering that deregisters all securities then remaining unsold:

Annual Report on Form 10-K for the fiscal year ended December 31, 2011 filed with the SEC on February 22, 2012, as amended by the Form 10-K/A filed with the SEC on February 23, 2012; and

Current Report on Form 8-K filed with the SEC on February 24, 2012.

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You may request a copy of any of these filings (other than an exhibit to those filings unless we have specifically incorporated that exhibit by reference into the filing), at no cost, by telephoning us at the following number or writing us at the following address:

Range Resources Corporation

Attention: General Counsel

100 Throckmorton Street

Suite 1200

Fort Worth, Texas 76102

(817) 869-4254

Forward-looking statements

This prospectus and the documents incorporated by reference in this prospectus contain forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These statements include statements relating to our plans, strategies, objectives, expectations, intentions and adequacy of resources and are made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. In general, all statements other than statements of historical fact are forward-looking statements. These forward-looking statements are based on management's current belief, based on currently available information, as to the outcome and timing of future events. However, management's assumptions and our future performance are subject to a wide range of business risks and uncertainties and we cannot assure you that these goals and projections can or will be met. Any number of factors could cause actual results to differ materially from those in the forward-looking statements, including, but not limited to:

production variance from expectations;

volatility of natural gas, natural gas liquids and oil prices;

hedging results;

the need to develop and replace reserves;

the substantial capital expenditures required to fund operations;

exploration risks;

environmental risks;

uncertainties about estimates of reserves;

competition;

litigation;

access to capital;

government regulation;

political risks;

our ability to implement our business strategy;

costs and results of drilling new projects;

mechanical and other inherent risks associated with natural gas and oil production;

weather;

availability of drilling equipment;

changes of interest rates; and

other risks detailed in our filings with the SEC.

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Reserve engineering is a process of estimating underground accumulations of natural gas and oil that cannot be measured in an exact way. The accuracy of any reserve estimate depends on the quality of available data, the interpretation of such data and price and cost assumptions made by our reserve engineers. In addition, the results of drilling, testing and production activities may justify revisions of estimates that were made previously. If significant, such revisions would change the schedule of any further production and development drilling. Accordingly, reserve estimates may differ from the quantities of natural gas and oil that are ultimately recovered.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, events, levels of activity, performance or achievements. We do not assume responsibility for the accuracy and completeness of the forward-looking statements.

Should one or more of the risks or uncertainties described in this prospectus or the documents we incorporate by reference, or should underlying assumptions prove incorrect, our actual results and plans could differ materially from those expressed in any forward-looking statements. We undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

All forward-looking statements express or implied, included in this prospectus and the documents we incorporate by reference and attributable to Range are expressly qualified in their entirety by this cautionary statement. This cautionary statement should also be considered in connection with any subsequent written or oral forward-looking statements that Range or persons acting on its behalf may issue.

Ratio of earnings to fixed charges

	Year Ended December 31,				
	2007	2008	2009	2010	2011
Ratio of earnings to fixed charges	3.7x	5.9x	1.8x	2.0x	1.7x

For purposes of calculating the ratio of earnings to fixed charges:

fixed charges represent interest expense, amortization of debt costs and the portion of rental expense representing the interest factor, and

earnings represent the aggregate of fixed charges and pre-tax income from continuing operations adjusted for undistributed income or loss from equity method investments.

Use of proceeds

Unless we inform you otherwise in a prospectus supplement, we expect to use the net proceeds from the sale of the securities covered by this prospectus for general corporate purposes, which may include but are not limited to reduction or refinancing of debt or other corporate obligations, repurchasing or redeeming our securities, the financing of capital expenditures, acquisitions and additions to our working capital. We may temporarily use the net proceeds received from any offering of securities to repay our senior credit facility or other debt until we can use such net proceeds for the stated purpose.

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Description of debt securities

In this Description of Debt Securities, Range or the Company refers only to Range Resources Corporation, and any successor obligor on the securities, and not to any of its subsidiaries. You can find the definitions of certain terms used in this description under Certain definitions.

The Company may from time to time issue such securities (referred to herein as the notes) under an Indenture (the Indenture) to be entered into among the Company, the Subsidiary Guarantors and The Bank of New York Mellon Trust Company, N.A., as may be supplemented or amended. The terms of the notes include those stated in the Indenture and those made part of the Indenture by reference to the Trust Indenture Act of 1939, as amended.

The notes may be issued from time to time as provided in this prospectus. When notes are offered, a prospectus supplement will explain the particular terms of the notes to the extent they are not set forth in or vary from the terms set forth in this prospectus, and in particular will include the following information about the notes offered:

the initial principal amount of notes offered;

the interest rate borne by the notes;

the interest payment dates and related record date;

the maturity date;

the prices and other terms, if any, upon which the notes may be redeemed prior to maturity;

any changes in the terms related to the notes described herein, including changes in covenants, events of default or any other provision described herein; and

any other information relevant to the terms of the notes so offered.

The following is a summary of the material provisions of the Indenture. Because this is a summary, it may not contain all the information that is important to you. We have filed the form of Indenture as an exhibit to the registration statement of which this prospectus is part. You should read the Indenture in its entirety.

Basic terms of notes

The notes:

will be unsecured senior subordinated obligations of Range, subordinated in right of payment to all existing and future Senior Debt of Range in accordance with the subordination provisions of the Indenture;

will be jointly, severally and unconditionally guaranteed on a senior subordinated basis by certain of the material domestic Restricted Subsidiaries of the Company and any future material domestic Restricted Subsidiary of the Company. The obligations of the Subsidiary Guarantors under the Guarantees will be general unsecured obligations of each of the Subsidiary Guarantors and will be

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subordinated in right of payment to all obligations of the Subsidiary Guarantors in respect of Senior Debt; and

will rank equally with all of our senior subordinated unsecured debt, including \$500.0 million in aggregate principal amount of our outstanding 5 ³/₄% Senior Subordinated Notes due 2021, \$500.0 million in aggregate principal amount of our outstanding 6 ³/₄% Senior Subordinated Notes due 2020, \$300.0 million in aggregate principal amount of our outstanding 8% Senior Subordinated Notes due 2019, \$250.0 million in aggregate principal amount of our outstanding 7 ¹/₄% Senior Subordinated Notes due 2018 and \$250.0 million in aggregate principal amount of our outstanding 7 ¹/₂% Senior Subordinated Notes due 2017.

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Additional notes

Subject to the covenants described below, following the initial issuance of notes under the Indenture, we may issue additional notes under the Indenture having the same terms as the initial notes; provided, however, that if the additional notes are not fungible with the initial notes for U.S. federal income tax purposes, the additional notes will have a separate CUSIP number. The initial notes and any such additional notes would be treated as a single class for all purposes under the Indenture and will vote together as one class on all matters with respect to the notes.

Optional redemption

We will be permitted to redeem the notes prior to maturity on the terms and at the prices set forth in the prospectus supplement relating to the issuance of the notes.

No mandatory redemption or sinking fund

Except as set forth below under "Repurchase at the option of holders," we will not be required to make mandatory redemption or sinking fund payments with respect to the notes.

Guarantees

The Company's payment obligations under the notes will be jointly, severally and unconditionally guaranteed (the "Guarantees") initially by the Company's material domestic Restricted Subsidiaries and by any future material domestic Restricted Subsidiaries of the Company. The initial Subsidiary Guarantors shall be American Energy Systems, LLC; Energy Assets Operating Company, LLC; Range Energy Services Company, LLC; Range Operating New Mexico, LLC; Range Production Company; Range Resources Appalachia, LLC; Range Resources Midcontinent, LLC; Range Resources Pine Mountain, Inc. and Range Texas Production, LLC. The Guarantees will be subordinated to Indebtedness of the Subsidiary Guarantors to the same extent and in the same manner as the notes are subordinated to the Senior Debt. Each Guarantee by a Subsidiary Guarantor will be limited in an amount not to exceed the maximum amount that can be guaranteed by the applicable Subsidiary Guarantor without rendering such Guarantee, as it relates to such Subsidiary Guarantor, voidable under applicable law relating to fraudulent conveyance or fraudulent transfer or similar laws affecting rights of creditors generally.

The Indenture provides that no Subsidiary Guarantor may consolidate with or merge with or into (whether or not such Subsidiary Guarantor is the surviving Person), another Person whether or not affiliated with such Subsidiary Guarantor, unless (i) subject to the provisions of the following paragraph, 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 pursuant to a supplemental Indenture in form and substance reasonably satisfactory to the Trustee in respect of the notes, the Indenture and the Guarantees; (ii) immediately after giving effect to such transaction, no Default or Event of Default exists; and (iii) such transaction does not violate any of the covenants described under the heading "Certain covenants."

The Indenture provides that in the event of a sale or other disposition of all or substantially all of the assets of a Subsidiary Guarantor to a third party or an Unrestricted Subsidiary in a transaction that does not violate any of the covenants in the Indenture, by way of merger, consolidation or otherwise, or a sale or other disposition of all of the capital stock of a Subsidiary Guarantor, 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 property (in the event of a sale or other disposition of all or substantially all of the assets of such Subsidiary Guarantor) will be released from and relieved of any obligations under its Guarantee.

Any Subsidiary Guarantor that is designated an Unrestricted Subsidiary in accordance with the terms of the Indenture shall be released and relieved of its obligations under its Guarantee.

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Subordination

The payment of principal, premium, if any, and interest on the notes and any other payment obligations of the Company in respect of the notes (including any obligation to repurchase the notes) will be subordinated in certain circumstances in right of payment, as set forth in the Indenture, to the prior payment in full in cash of all Senior Debt, whether outstanding on the date of the Indenture or thereafter incurred.

Upon any payment or distribution of property or securities to creditors of the Company in a liquidation or dissolution of the Company or in a bankruptcy, reorganization, insolvency, receivership or similar proceeding relating to the Company or its property, or in an assignment for the benefit of creditors or any marshalling of the Company's assets and liabilities, the holders of Senior Debt will be entitled to receive payment in full of all Obligations due in respect of such Senior Debt (including interest after the commencement of any such proceeding at the rate specified in the applicable Senior Debt, whether or not a claim for such interest would be allowed in such proceeding) before the Holders of notes will be entitled to receive any payment with respect to the notes, and until all Obligations with respect to Senior Debt are paid in full, any distribution to which the Holders of notes would be entitled shall be made to the holders of Senior Debt (except in each case that Holders of notes may receive securities that are subordinated at least to the same extent as the notes are subordinated to Senior Debt and any securities issued in exchange for Senior Debt and payments made from the trust described under Legal defeasance and covenant defeasance).

The Company may not make any payment (whether by redemption, purchase, retirement, defeasance or otherwise) upon or in respect of the notes (except in such subordinated securities or from the trust described under Legal defeasance and covenant defeasance) if (i) a default in the payment of the principal of, premium, if any, or interest on Designated Senior Debt occurs or (ii) any other default occurs and is continuing with respect to Designated Senior Debt that permits, or with the giving of notice or passage of time or both (unless cured or waived) will permit, holders of the Designated Senior Debt as to which such default relates to accelerate its maturity and the Trustee receives a notice of such default (a Payment Blockage Notice) from the Company or the holders of any Designated Senior Debt. Cash payments on the notes shall be resumed (a) in the case of a payment default, upon the date on which such default is cured or waived and (b) in case of a nonpayment default, the earliest of the date on which such nonpayment default is cured or waived, the date on which the applicable Payment Blockage Notice is retracted by written notice to the Trustee or 90 days after the date on which the applicable Payment Blockage Notice is received, unless the maturity of any Designated Senior Debt has been accelerated or a default of the type described in clause (ix) under the caption Events of Default has occurred and is continuing. No new period of payment blockage may be commenced unless and until 360 days have elapsed since the date of commencement of the payment blockage period resulting from the immediately prior Payment Blockage Notice. No nonpayment default in respect of Designated Senior Debt that existed or was continuing on the date of delivery of any Payment Blockage Notice to the Trustee shall be, or be made, the basis for a subsequent Payment Blockage Notice.

The Indenture further requires that the Company promptly notify holders of Senior Debt if payment of the notes is accelerated because of an Event of Default.

As a result of the subordination provisions described above, in the event of a liquidation or insolvency of the Company, Holders of notes may recover less ratably than creditors of the Company who are holders of Senior Debt. The Indenture will limit, subject to certain financial tests, the amount of additional Indebtedness, including Senior Debt, that the Company and its Subsidiaries can incur. See Certain covenants Incurrence of indebtedness and issuance of disqualified stock.

Repurchase at the option of holders

Change of control

Upon the occurrence of a Change of Control, each Holder of notes will have the right to require the Company to repurchase all or any part (equal to \$1,000 or an integral multiple thereof) of such Holder's notes

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pursuant to the offer described below (the *Change of Control Offer*) at an offer price in cash equal to 101% of the aggregate principal amount of the notes *plus* accrued and unpaid interest, if any, thereon to the date of purchase (the *Change of Control Payment*). Within 30 days following any *Change of Control*, unless a notice of redemption has been given with respect to the notes, the Company will mail a notice to each Holder describing the transaction or transactions that constitute the *Change of Control* and offer to repurchase the notes pursuant to the procedures required by the Indenture and described in such notice. The *Change of Control Payment* shall be made on a business day not less than 30 days nor more than 60 days after such notice is mailed (the *Change of Control Payment Date*). The Company will comply with the requirements of Rule 14e-1 under the Exchange Act and any other securities laws and regulations thereunder to the extent such laws and regulations are applicable in connection with the repurchase of the notes as a result of a *Change of Control*.

On the *Change of Control Payment Date*, the Company will, to the extent lawful, (i) accept for payment all the notes or portions thereof properly tendered pursuant to the *Change of Control Offer*, (ii) deposit with the Paying Agent an amount equal to the *Change of Control Payment* in respect of all the notes or portions thereof so tendered and (iii) deliver or cause to be delivered to the Trustee the notes so accepted together with an Officers Certificate stating the aggregate principal amount of such notes or portions thereof being purchased by the Company. The Paying Agent will promptly mail to each Holder of notes so tendered the *Change of Control Payment* for such notes, and the Trustee will promptly authenticate and mail (or cause to be transferred by book entry) 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 publicly announce the results of the *Change of Control Offer* on or as soon as practicable after the *Change of Control Payment Date*. Except as described above with respect to a *Change of Control*, the Indenture will not contain provisions that permit the Holders of notes to require that the Company repurchase or redeem the notes in the event of a takeover, recapitalization or similar transaction.

The Company will not be required to make a *Change of Control Offer* upon a *Change of Control* if a third party makes the *Change of Control Offer* in the manner, at the times and otherwise in compliance with the requirements set forth in the Indenture applicable to a *Change of Control Offer* made by the Company and purchases all notes (or portions thereof) validly tendered and not withdrawn under such *Change of Control Offer*.

The Credit Agreement will prohibit the Company from repurchasing any notes pursuant to a *Change of Control Offer* prior to the repayment in full of the Senior Debt under the Credit Agreement. Moreover, the occurrence of certain change of control events identified in the Credit Agreement will constitute a default under the Credit Agreement. Any future Credit Facilities or other agreements relating to the Senior Debt to which the Company becomes a party may contain similar restrictions and provisions. If a *Change of Control* were to occur, the Company may not have sufficient available funds to pay the *Change of Control Payment* for all notes that might be delivered by Holders of notes seeking to accept the *Change of Control Offer* after first satisfying its obligations under the Credit Agreement or other agreements relating to Senior Debt, if accelerated. The failure of the Company to make or consummate the *Change of Control Offer* or pay the *Change of Control Payment* when due will constitute a Default under the Indenture and will otherwise give the Trustee and the Holders of notes the rights described under Events of default and remedies.

The definition of *Change of Control* includes a phrase relating to the sale, lease, transfer, conveyance or other disposition of all or substantially all of the assets of the Company and its Subsidiaries taken as a whole. Although there is a developing body of case law interpreting the phrase substantially all, there is no precise established definition of the phrase under applicable law. Accordingly, the ability of a Holder of notes to require the Company to repurchase such notes as a result of a sale, lease, transfer, conveyance or other disposition of less than all of the assets of the Company and its Subsidiaries taken as a whole to another Person or group may be uncertain.

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The Indenture provides that the Company will not, and will not permit any of its Restricted Subsidiaries to, engage in an Asset Sale unless (i) the Company or the Restricted Subsidiary, as the case may be, receives consideration at the time of such Asset Sale at least equal to the fair market value (as determined in good faith by a resolution of the Board of Directors set forth in an Officers' Certificate delivered to the Trustee, which determination shall be conclusive evidence of compliance with this provision) of the assets or Equity Interests issued or sold or otherwise disposed of and (ii) at least 85% of the consideration therefor received by the Company or such Restricted Subsidiary in such Asset Sale, *plus* all other Asset Sales since the date of the Indenture, on a cumulative basis, is in the form of cash or Cash Equivalents; provided that the amount of any liabilities (as shown on the Company's or such Restricted Subsidiary's most recent balance sheet) of the Company or any Restricted Subsidiary (other than contingent liabilities and liabilities that are by their terms subordinated to the notes or any guarantee thereof) that are assumed by the transferee of any such assets pursuant to a customary novation agreement that releases the Company or such Restricted Subsidiary from further liability shall be treated as cash for the foregoing purposes.

Within 360 days after the receipt of any Net Proceeds from an Asset Sale, the Company may apply such Net Proceeds, at its option, (a) to reduce Senior Debt, (b) to acquire a controlling interest in another Oil and Gas Business, (c) to make capital expenditures in respect of the Company's or its Restricted Subsidiaries' Oil and Gas Business, (d) to purchase long-term assets that are used or useful in such Oil and Gas Business or (e) to repurchase any notes. Pending the final application of any such Net Proceeds, the Company may temporarily reduce Senior Debt that is revolving debt or otherwise invest such Net Proceeds in any manner that is not prohibited by the Indenture. Any Net Proceeds from Asset Sales that are not applied as provided in the first sentence of this paragraph will (after the expiration of the periods specified in this paragraph) be deemed to constitute Excess Proceeds.

When the aggregate amount of Excess Proceeds exceeds \$10.0 million, the Company will be required to make an offer to all Holders of notes and, to the extent required by the terms thereof, to all holders or lenders of *pari passu* Indebtedness (an Asset Sale Offer) to purchase the maximum principal amount of the notes and any such *pari passu* Indebtedness to which the Asset Sale Offer applies that may be purchased out of the Excess Proceeds, at an offer price in cash in an amount equal to, in the case of the notes, 100% of the principal amount thereof *plus* accrued and unpaid interest thereon to the date of purchase, or, in the case of any other *pari passu* Indebtedness, 100% of the principal amount thereof (or with respect to discount *pari passu* Indebtedness, the accreted value thereof) on the date of purchase, in each case in accordance with the procedures set forth in the Indenture or the agreements governing the *pari passu* Indebtedness, as applicable. To the extent that the aggregate principal amount (or accreted value, as the case may be) of the notes and *pari passu* Indebtedness tendered pursuant to an Asset Sale Offer is less than the Excess Proceeds, the Company may use any remaining Excess Proceeds for general corporate purposes. If the sum of the aggregate principal amount of the notes surrendered by Holders thereof and the aggregate principal amount or accreted value, as the case may be, of other *pari passu* Indebtedness surrendered by holders or lenders thereof exceeds the amount of Excess Proceeds, the Trustee and the trustee or other lender representatives for the *pari passu* Indebtedness shall select the notes and other *pari passu* Indebtedness to be purchased on a pro rata basis, based on the aggregate principal amount (or accreted value, as applicable) thereof surrendered in such Asset Sale Offer. Upon completion of such Asset Sale Offer, the amount of Excess Proceeds shall be reset at zero.

The Credit Agreement will prohibit the Company from purchasing any notes from the Net Proceeds of Asset Sales. Any future credit agreements or other agreements relating to Senior Debt to which the Company becomes a party may contain similar restrictions and provisions. In the event an Asset Sale Offer occurs at a time when the Company is prohibited from purchasing the notes, the Company could seek the consent of its lenders to the purchase or could attempt to refinance the Senior Debt that contain such prohibition. If the Company does not obtain such a consent or repay such Senior Debt, the Company may remain prohibited from purchasing the notes. In such case, the Company's failure to purchase tendered notes would constitute an Event of Default under the

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Indenture which would, in turn, constitute a default under the Credit Agreement and possibly a default under other agreements relating to Senior Debt. In such circumstances, the subordination provisions in the Indenture would likely restrict payments to the Holders of the notes.

Certain covenants

The Indenture provides that the Company may, in certain circumstances, designate one or more of its Subsidiaries as Unrestricted Subsidiaries, which generally are not subject to the restricted covenants of the Indenture. As of the date of the Indenture, the Company currently does not have any subsidiaries designated as Unrestricted Subsidiaries.

The Indenture contains covenants including, among others, the following:

Restricted payments

The Indenture provides that the Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly: (i) declare or pay any dividend or make any other payment or distribution on account of the Company's Equity Interests (including, without limitation, any payment to holders of the Company's Equity Interests in connection with any merger or consolidation involving the Company) or to the direct or indirect holders of the Company's Equity Interests in their capacity as such (other than dividends or distributions payable in Equity Interests (other than Disqualified Stock) of the Company); (ii) purchase, redeem or otherwise acquire or retire for value any Equity Interests of the Company; (iii) make any principal payment on, or purchase, redeem, defease or otherwise acquire or retire for value any Indebtedness that is subordinated to the notes, except at final maturity; or (iv) make any Restricted Investment (all such payments and other actions set forth in clauses (i) through (iv) above being collectively referred to as Restricted Payments), unless, at the time of and after giving effect to such Restricted Payment:

(a) no Default or Event of Default shall have occurred and be continuing or would occur as a consequence thereof; and

(b) the Company would, at the time of such Restricted Payment and after giving pro forma effect thereto as if such Restricted Payment had been made at the beginning of the applicable four-quarter period, have been permitted to incur at least \$1.00 of additional Indebtedness pursuant to the Fixed Charge Coverage Ratio test set forth in the first paragraph of the covenant described below under the caption Incurrence of Indebtedness and issuance of disqualified stock; and

(c) such Restricted Payment, together with the aggregate of all other Restricted Payments made by the Company and its Restricted Subsidiaries after the date of the Indenture (excluding Restricted Payments permitted by clauses (2), (3), (5) and (6) of the next succeeding paragraph), is less than the sum of (i) the dollar amount calculated as of the date of the Indenture under Section 4.07(c) of that certain Indenture dated July 21, 2003 among the Company, the Subsidiary Guarantors and The Bank of New York Mellon Trust Company, N.A. as successor trustee to Bank One, National Association, plus (ii) 50% of the Consolidated Net Income of the Company for the period (taken as one accounting period) from the beginning of the first fiscal quarter commencing prior to the date of the Indenture to the end of the Company's most recently ended fiscal quarter for which internal financial statements are available at the time of such Restricted Payment (or, if such Consolidated Net Income for such period is a deficit, less 100% of such deficit), plus (iii) 100% of the aggregate net cash proceeds received by the Company from the issue and sale since the date of the Indenture of Equity Interests of the Company or of debt securities of the Company that have been converted into or exchanged for such Equity Interests (other than Equity Interests (or convertible debt securities) sold to a Subsidiary of the Company and other than Disqualified Stock or debt securities that have been converted into Disqualified Stock), plus (iv) 100% of the amount of net cash proceeds received by the Company or a Restricted Subsidiary from the sale within 12 months of the related acquisition of any of the following that are acquired after the date of the Indenture in

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exchange for Equity Interests of the Company (other than Disqualified Stock and other than Capital Stock issued to a Subsidiary of the Company): (A) any property or assets (other than Indebtedness and Capital Stock); (B) the Capital Stock of a Person that becomes a Restricted Subsidiary as a result of the acquisition of such Capital Stock by the Company or another Restricted Subsidiary; or (C) Capital Stock constituting a minority interest in any Person that at such time is a Restricted Subsidiary, *plus* (v) to the extent that any Restricted Investment that was made after the date of the Indenture is sold for cash or otherwise liquidated or repaid for cash, the lesser of (A) the net proceeds of such sale, liquidation or repayment and (B) the initial amount of such Restricted Investment.

The foregoing provisions will not prohibit: (1) the payment of any dividend within 60 days after the date of declaration thereof, if at said date of declaration such payment would have complied with the provisions of the Indenture; (2) the redemption, repurchase, retirement or other acquisition of any Equity Interests of the Company in exchange for, or out of the proceeds of, the substantially concurrent sale (other than to a Subsidiary of the Company) of other Equity Interests of the Company (other than any Disqualified Stock); *provided* that the amount of any such net cash proceeds that are utilized for any such redemption, repurchase, retirement or other acquisition shall be excluded from clause (c)(iii) or (c)(iv) of the preceding paragraph; (3) the defeasance, redemption or repurchase of Subordinated Indebtedness with the net cash proceeds from an incurrence of Permitted Refinancing Debt or the substantially concurrent sale (other than to a Subsidiary of the Company) of Equity Interests of the Company (other than Disqualified Stock); *provided* that the amount of any such net cash proceeds that are utilized for any such redemption, repurchase, retirement or other acquisition shall be excluded from clause (c)(iii) or (c)(iv) of the preceding paragraph; (4) the repurchase, redemption or other acquisition or retirement for value of any Equity Interests of the Company or any Subsidiary of the Company held by any of the Company's (or any of its Subsidiaries') employees pursuant to any equity subscription agreement or stock option agreement in effect as of the date of the Indenture; *provided* that the aggregate price paid for all such repurchased, redeemed, acquired or retired Equity Interests shall not exceed \$2.0 million in any twelve-month period; and provided further that no Default or Event of Default shall have occurred and be continuing immediately after such transaction; (5) repurchases of Equity Interests deemed to occur upon exercise of stock options if such Equity Interests represent a portion of the exercise price of such options; and (6) cash payments made by the Company for the repurchase, redemption or other acquisition or retirement of the Company's 7/2% Senior Subordinated Notes due 2017, 7 1/4% Senior Subordinated Notes due 2018, 8% Senior Subordinated Notes due 2019, 6 3/4% Senior Subordinated Notes due 2020 or 5 3/4% Senior Subordinated Notes due 2021.

The amount of all Restricted Payments (other than cash) shall be the fair market value (as determined in good faith by a resolution of the Board of Directors set forth in an Officers' Certificate delivered to the Trustee, which determination shall be conclusive evidence of compliance with this provision) on the date of the Restricted Payment of the asset(s) proposed to be transferred by the Company or the applicable Restricted Subsidiary, as the case may be, pursuant to the Restricted Payment. Not later than five days after the date of making any Restricted Payment, the Company shall deliver to the Trustee an Officers' Certificate stating that such Restricted Payment is permitted and setting forth the basis upon which the calculations required by the covenant Restricted Payments were computed.

Designation of unrestricted subsidiaries

The Board of Directors of the Company may designate any Restricted Subsidiary to be an Unrestricted Subsidiary if such designation would not cause a Default. For purposes of making such determination, all outstanding Investments by the Company and its Restricted Subsidiaries (except to the extent repaid in cash) in the Subsidiary so designated will be deemed to be a Restricted Investment or, if applicable, a Permitted Investment at the time of such designation and must comply with the covenant Restricted payments. All such outstanding Investments will be deemed to constitute Investments in an amount equal to the greater of the fair market value or the book value of such Investments at the time of such designation. Such designation will only be permitted if such Restricted Payment would be permitted at such time and if such Restricted Subsidiary otherwise meets the definition of an Unrestricted Subsidiary.

Table of Contents**Incurrence of indebtedness and issuance of disqualified stock**

The Indenture provides that the Company will not, and will not permit any of its Restricted Subsidiaries to, directly or indirectly, create, incur, issue, assume, guarantee or otherwise become directly or indirectly liable, contingently or otherwise, with respect to (collectively, "incur") any Indebtedness (including Acquired Debt) and that the Company will not issue any Disqualified Stock and will not permit any of its Restricted Subsidiaries to issue any shares of preferred stock; provided, however, that the Company may incur Indebtedness (including Acquired Debt) or issue shares of Disqualified Stock if:

(i) the Fixed Charge Coverage Ratio for the Company's most recently ended four full fiscal quarters for which internal financial statements are available immediately preceding the date on which such additional Indebtedness is incurred or such Disqualified Stock is issued would have been at least 2.5 to 1, determined on a pro forma basis as set forth in the definition of Fixed Charge Coverage Ratio; and

(ii) no Default or Event of Default shall have occurred and be continuing at the time such additional Indebtedness is incurred or such Disqualified Stock is issued or would occur as a consequence of the incurrence of the additional Indebtedness or the issuance of the Disqualified Stock.

Notwithstanding the foregoing, the Indenture will not prohibit any of the following (collectively, "Permitted Indebtedness"): (a) the Indebtedness evidenced by the notes initially issued under the Indenture; (b) the Indebtedness evidenced by the Company's 7/2% Senior Subordinated Notes due 2017, 7 1/4% Senior Subordinated Notes due 2018, 8% Senior Subordinated Notes due 2019, 6 3/4% Senior Subordinated Notes due 2020 or 5 3/4% Senior Subordinated Notes due 2021; (c) the incurrence by the Company or any of its Restricted Subsidiaries of Indebtedness pursuant to Credit Facilities, so long as the aggregate principal amount of all Indebtedness incurred pursuant to this clause (c) and outstanding under all Credit Facilities does not, at any one time, exceed the greater of (i) \$1.5 billion and (ii) an amount equal to the sum of (A) \$50.0 million plus (B) 30% of Adjusted Consolidated Net Tangible Assets determined after the incurrence of such Indebtedness (including the application of the proceeds therefrom); (d) the guarantee by any Subsidiary Guarantor of any Indebtedness that is permitted by the Indenture to be incurred by the Company; (e) all Indebtedness of the Company and its Restricted Subsidiaries in existence as of the date of the Indenture; (f) intercompany Indebtedness between or among the Company and any of its Wholly Owned Restricted Subsidiaries; *provided, however*, that (i) if the Company is the obligor on such Indebtedness, such Indebtedness is expressly subordinate to the payment in full of all Obligations with respect to the notes and (ii)(A) any subsequent issuance or transfer of Equity Interests that results in any such Indebtedness being held by a Person other than the Company or a Wholly Owned Restricted Subsidiary and (B) any sale or other transfer of any such Indebtedness to a Person that is not either the Company or a Wholly Owned Restricted Subsidiary shall be deemed, in each case, to constitute an incurrence of such Indebtedness by the Company or such Restricted Subsidiary, as the case may be; (g) Indebtedness in connection with one or more standby letters of credit, guarantees, performance bonds or other reimbursement obligations, in each case, issued in the ordinary course of business and not in connection with the borrowing of money or the obtaining of advances or credit (other than advances or credit on open account, includible in current liabilities, for goods and services in the ordinary course of business and on terms and conditions which are customary in the Oil and Gas Business, and other than the extension of credit represented by such letter of credit, guarantee or performance bond itself), not to exceed in the aggregate at any given time 5% of Total Assets; (h) Indebtedness under Interest Rate Hedging Agreements entered into for the purpose of limiting interest rate risks, *provided* that the obligations under such agreements are related to payment obligations on Indebtedness otherwise permitted by the terms of this covenant and that the aggregate notional principal amount of such agreements does not exceed 105% of the principal amount of the Indebtedness to which such agreements relate; (i) Indebtedness under Oil and Gas Hedging Contracts, *provided* that such contracts were entered into in the ordinary course of business for the purpose of limiting risks that arise in the ordinary course of business of the Company and its Restricted Subsidiaries; (j) the incurrence by the Company of Indebtedness not otherwise permitted to be incurred pursuant to this paragraph, *provided* that the aggregate principal amount (or accreted value, as applicable) of all Indebtedness incurred pursuant to this clause (j) together with all Permitted Refinancing Debt incurred pursuant to clause (k) of this paragraph in respect of Indebtedness previously incurred pursuant to this clause (j), does not

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exceed \$10.0 million at any one time outstanding; (k) Permitted Refinancing Debt incurred in exchange for, or the net proceeds of which are used to refinance, extend, renew, replace, defease or refund, Indebtedness that was permitted by the Indenture to be incurred (including Indebtedness previously incurred pursuant to this clause (k) and Indebtedness referred to in clause (e) above); (l) accounts payable or other obligations of the Company or any Restricted Subsidiary to trade creditors created or assumed by the Company or such Restricted Subsidiary in the ordinary course of business in connection with the obtaining of goods or services; and (m) Indebtedness consisting of obligations in respect of purchase price adjustments, guarantees or indemnities in connection with the acquisition or disposition of assets.

The Indenture provides that the Company will not permit any Unrestricted Subsidiary to incur any Indebtedness other than Non-Recourse Debt; *provided, however*, if any such Indebtedness ceases to be Non-Recourse Debt, such event shall be deemed to constitute an incurrence of Indebtedness by the Company.

For purposes of determining compliance with, and the outstanding principal amount of any particular Indebtedness incurred pursuant to and in compliance with this covenant: (A) Indebtedness permitted by this covenant need not be permitted solely by reference to one provision permitting such Indebtedness but may be permitted in part by one such provision and in part by one or more other provisions of this covenant permitting such Indebtedness, (B) in the event that Indebtedness meets the criteria of more than one of the types of Indebtedness permitted by this covenant to be incurred, the Company, in its sole discretion, will classify such item of Indebtedness on the date of incurrence (or later reclassify such Indebtedness from or after the first date on which the Company or its Restricted Subsidiaries could have incurred such Indebtedness under one or more other of such provisions) and only be required to include the amount and type of such Indebtedness in one or more of such provisions as it determines; and (C) the amount of any Indebtedness issued at a price that is less than the principal amount thereof will be equal to the amount of the liability in respect thereof determined in accordance with GAAP.

No layering

The Indenture provides that (i) the Company will not incur, create, issue, assume, guarantee or otherwise become liable for any Indebtedness that is subordinate or junior in right of payment to any Senior Debt and senior in any respect in right of payment to the notes and (ii) the Subsidiary Guarantors will not directly or indirectly incur, create, issue, assume, guarantee or otherwise become liable for any Indebtedness that is subordinate or junior in right of payment to any Senior Debt and senior in any respect in right of payment to the Guarantees, provided, however, that the foregoing limitations will not apply to distinctions between categories of Indebtedness that exist by reason of any Liens arising or created in respect of some but not all such Indebtedness.

Liens

The Indenture provides that the Company will not, and will not permit any of its Restricted Subsidiaries to, create, incur, assume or otherwise cause or suffer to exist or become effective any Lien securing Indebtedness of any kind (other than Permitted Liens) upon any of its property or assets, now owned or hereafter acquired, unless all payments under the notes are secured by such Lien prior to, or on an equal and ratable basis with, the Indebtedness so secured for so long as such Indebtedness is secured by such Lien.

Dividend and other payment restrictions affecting subsidiaries

The Indenture provides that 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 restriction on the ability of any Restricted Subsidiary to (i)(x) pay dividends or make any other distributions to the Company or any of its Restricted Subsidiaries (1) on its Capital Stock or (2) with respect to any other interest or participation in, or measured by, its profits, or (y) pay any indebtedness owed by it to the Company or any of its Restricted Subsidiaries, (ii) make loans or advances to the Company or any of its

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Restricted Subsidiaries or (iii) transfer any of its properties or assets to the Company or any of its Restricted Subsidiaries, except for such encumbrances or restrictions existing under or by reason of (a) the Credit Agreement and the indentures governing the Company's 7/2% Senior Subordinated Notes due 2017, 7 1/4% Senior Subordinated Notes due 2018, 8% Senior Subordinated Notes due 2019, 6 3/4% Senior Subordinated Notes due 2020 and 5 3/4% Senior Subordinated Notes due 2021, each as in effect as of the date of the Indenture, and any amendments, modifications, restatements, renewals, increases, supplements, refundings, replacements or refinancings thereof or any other Credit Facility or indenture or other financing agreement or instrument, provided that such amendments, modifications, restatements, renewals, increases, supplements, refundings, replacements, refinancings or other Credit Facilities or indentures or other financing agreements or instruments are not materially more restrictive taken as a whole with respect to such dividend and other payment restrictions than those contained in the Credit Agreement and such indentures as in effect on the date of the Indenture, (b) the Indenture and the notes, (c) applicable law, (d) any instrument governing Indebtedness or Capital Stock of a Person acquired by the Company or any of its Restricted Subsidiaries as in effect at the time of such acquisition (except, in the case of Indebtedness, to the extent such Indebtedness was incurred in connection with or in contemplation of such acquisition), which encumbrance or restriction is not applicable to any Person, or the properties or assets of any Person, other than the Person and its Subsidiaries, or the property or assets of the Person and its Subsidiaries, so acquired, provided that, in the case of Indebtedness, such Indebtedness was permitted by the terms of the Indenture to be incurred, (e) by reason of customary non-assignment provisions in leases and customary provisions in other agreements that restrict assignment of such agreement or rights thereunder, entered into in the ordinary course of business and consistent with past practices, (f) purchase money obligations for property acquired in the ordinary course of business that impose restrictions of the nature described in clause (iii) above on the property so acquired, or (g) Permitted Refinancing Debt, provided that the restrictions contained in the agreements governing such Permitted Refinancing Debt are not materially more restrictive, taken as a whole, than those contained in the agreements governing the Indebtedness being refinanced.

Merger, consolidation or sale of substantially all assets

The Indenture provides that the Company will not consolidate or merge with or into (whether or not the Company is the surviving corporation), or sell, assign, transfer, lease, convey or otherwise dispose of all or substantially all of its properties or assets, in one or more related transactions, to another Person, and the Company may not permit any of its Restricted Subsidiaries to enter into any such transaction or series of transactions if such transaction or series of transactions would, in the aggregate, result in a sale, assignment, transfer, lease, conveyance, or other disposition of all or substantially all of the properties or assets of the Company to another Person, in either case unless (i) the Company is the surviving corporation or the Person formed by or surviving any such consolidation or merger (if other than the Company) or to which such sale, assignment, transfer, lease, conveyance or other disposition shall have been made (the Surviving Entity) is a corporation organized or existing under the laws of the United States, any state thereof or the District of Columbia; (ii) the Surviving Entity (if the Company is not the continuing obligor under the Indenture) assumes all the obligations of the Company under the notes and the Indenture pursuant to a supplemental Indenture in a form reasonably satisfactory to the Trustee; (iii) immediately before and after giving effect to such transaction or series of transactions no Default or Event of Default exists; and (iv) the Company or the Surviving Entity (if the Company is not the continuing obligor under the Indenture) will, at the time of such transaction or series of transactions and after giving pro forma effect thereto as if such transaction or series of transactions had occurred at the beginning of the applicable four-quarter period, be permitted to incur at least \$1.00 of additional Indebtedness pursuant to the test set forth in the first paragraph of the covenant described above under the caption Incurrence of indebtedness and issuance of disqualified stock. Notwithstanding the restrictions described in the foregoing clause (iv), any Restricted Subsidiary may consolidate with, merge into or transfer all or part of its properties and assets to the Company, and any Wholly Owned Restricted Subsidiary may consolidate with, merge into or transfer all or part of its properties and assets to another Wholly Owned Restricted Subsidiary.

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Transactions with affiliates

The Indenture provides that the Company will not, and will not permit any of its Restricted Subsidiaries to, make any payment to, or sell, lease, transfer or otherwise dispose of any of its properties or assets to, or purchase any property or assets from, or enter into or make or amend any contract, agreement, understanding, loan, advance or guarantee with, or for the benefit of, any of its Affiliates (each of the foregoing, an Affiliate Transaction), unless (i) such Affiliate Transaction is on terms that are no less favorable to the Company or the relevant Restricted Subsidiary than those that would have been obtained in a comparable transaction by the Company or such Subsidiary with an unrelated Person and (ii) the Company delivers to the Trustee (a) with respect to any Affiliate Transaction or series of related Affiliate Transactions involving aggregate consideration in excess of \$1.0 million but less than or equal to \$10.0 million, an Officers Certificate certifying that such Affiliate Transaction complies with clause (i) above, (b) with respect to any Affiliate Transaction or series of related Affiliate Transactions involving aggregate consideration in excess of \$10.0 million but less than or equal to \$25.0 million, a resolution of the Board of Directors set forth in an Officers Certificate certifying that such Affiliate Transaction or series of Affiliate Transactions complies with clause (i) above and that such Affiliate Transaction or series of Affiliate Transactions has been approved in good faith by a majority of the members of the Board of Directors who are disinterested with respect to such Affiliate Transaction or series of related Affiliate Transactions (which resolution shall be conclusive evidence of compliance with this provision) and (c) with respect to any Affiliate Transaction or series of related Affiliate Transactions involving aggregate consideration in excess of \$25.0 million, the Company delivers a resolution of the Board of Directors set forth in an Officers Certificate certifying that such Affiliate Transaction or series of related Affiliate Transactions complies with clause (i) above and that such Affiliate Transaction or series of related Affiliate Transactions has been approved in good faith by a resolution adopted by a majority of the members of the Board of Directors of the Company who are disinterested with respect to such Affiliate Transaction or series of related Affiliate Transactions and an opinion as to the fairness to the Company or such Subsidiary of such Affiliate Transaction or series of related Affiliate Transactions from a financial point of view issued by an accounting, appraisal, engineering or investment banking firm of national standing (which resolution and fairness opinion shall be conclusive evidence of compliance with this provision); provided that the following shall not be deemed Affiliate Transactions: (1) transactions contemplated by any employment agreement or other compensation plan or arrangement entered into by the Company or any of its Subsidiaries in the ordinary course of business, (2) transactions between or among the Company and/or its Restricted Subsidiaries, (3) Restricted Payments and Permitted Investments that are permitted by the provisions of the Indenture described above under the caption Restricted payments, (4) indemnification payments made to officers, directors and employees of the Company or any Subsidiary pursuant to charter, bylaw, statutory or contractual provisions, and (5) transactions with entities that are Affiliates of the Company or a Restricted Subsidiary only because of the ownership by the Company or a Restricted Subsidiary of Equity Interests in such entity.

Additional subsidiary guarantees

The Indenture provides that if the Company or any of its Restricted Subsidiaries shall acquire or create another material Restricted Subsidiary after the date of the Indenture, then such newly acquired or created Restricted Subsidiary will be required to execute a Guarantee and deliver an opinion of counsel, in accordance with the terms of the Indenture; provided that, in no event will any non-U.S. Subsidiary of the Company be required to execute a Guarantee. For purposes of the foregoing, a Restricted Subsidiary shall be deemed to be material if it would not be a minor subsidiary within the meaning of Rule 3-10(h) of Regulation S-X under the Exchange Act.

Business activities

The Company will not, and will not permit any Restricted Subsidiary to, engage in any material respect in any business other than the Oil and Gas Business.

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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, to the extent permitted by the Exchange Act, the Company will file with the Commission and provide, within 15 days after such filing, the Trustee and Holders and prospective Holders (upon request) with the annual reports and the information, documents and other reports which are specified in Sections 13 and 15(d) of the Exchange Act (but without exhibits in the case of the Holders and prospective Holders). In the event that the Company is not permitted to file such reports, documents and information with the Commission, the Company will provide substantially similar information to the Trustee, the Holders and prospective Holders (upon request) as if the Company were subject to the reporting requirements of Section 13 or 15(d) of the Exchange Act. The Company will also comply with the other provisions of Section 314(a) of the Trust Indenture Act.

Events of default and remedies

The Indenture provides that each of the following constitutes an Event of Default: (i) a default for 30 days in the payment when due of interest on the notes (whether or not prohibited by the subordination provisions of the Indenture); (ii) a default in payment when due of the principal of or premium, if any, on the notes (whether or not prohibited by the subordination provisions of the Indenture); (iii) the failure by the Company to comply with its obligations under Certain covenants Merger, consolidation or sale of assets above; (iv) the failure by the Company for 30 days after notice from the Trustee or the Holders of at least 25% in principal amount of the notes then outstanding to comply with the provisions described under the captions Repurchase at the option of holders and Certain covenants other than the provisions described under Merger, consolidation or sale of assets ; (v) failure by the Company for 60 days after notice from the Trustee or the Holders of at least 25% in principal amount of the notes then outstanding to comply with any of its other agreements in the Indenture or the notes; (vi) except as permitted by the Indenture, any Guarantee shall be held in any judicial proceeding to be unenforceable or invalid or shall cease for any reason to be in full force and effect or a Subsidiary Guarantor, or any Person acting on behalf of such Subsidiary Guarantor, shall deny or disaffirm its obligations under its Guarantee; (vii) a default under any mortgage, indenture or instrument under which there may be issued or by which there may be secured or evidenced any Indebtedness for money borrowed by the Company or any of its Restricted Subsidiaries (or the payment of which is guaranteed by the Company or any of its Restricted Subsidiaries) whether such Indebtedness or guarantee now exists, or is created after the date of the Indenture, which default (a) is caused by a failure to pay principal of or premium, if any, or interest on such Indebtedness prior to the expiration of the grace period provided in such Indebtedness on the date of such default (a Payment Default) or (b) results in the acceleration of such Indebtedness prior to its express maturity and, in each case, the principal amount of any such Indebtedness, together with the principal amount of any other such Indebtedness under which there is then existing a Payment Default or the maturity of which has been so accelerated, aggregates \$10.0 million or more; provided, that if any such default is cured or waived or any such acceleration rescinded, or such Indebtedness is repaid, within a period of 10 days from the continuation of such default beyond the applicable grace period or the occurrence of such acceleration, as the case may be, such Event of Default under the Indenture and any consequential acceleration of the notes shall be automatically rescinded; (viii) the failure by the Company or any of its Restricted Subsidiaries to pay final, non-appealable judgments aggregating in excess of \$10.0 million, which judgments remain unpaid or discharged for a period of 60 days; and (ix) certain events of bankruptcy or insolvency with respect to the Company or any of its Significant Subsidiaries or any group of Subsidiaries that, taken together, would constitute a Significant Subsidiary.

If any Event of Default occurs (other than an Event of Default specified in clause (ix) above) and is continuing, the Trustee or the Holders of at least 25% in principal amount of the notes then outstanding may declare the principal of and accrued but unpaid interest on such notes to be due and payable immediately. Upon such declaration the principal and interest shall be due and payable immediately; provided, however, that so long as any Designated Senior Debt or any commitment therefor is outstanding, any such notice or declaration shall not become effective until the earlier of (a) five Business Days after such notice is delivered to the representative for the Designated Senior Debt or (b) the acceleration of any Designated Senior Debt and thereafter, payments on

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the Securities pursuant the above provisions shall be made only to the extent permitted pursuant to the subordination provisions of the indenture. Notwithstanding the foregoing, in the case of an Event of Default arising from certain events of bankruptcy or insolvency, with respect to the Company or any Significant Subsidiary or any group of Subsidiaries that, taken together, would constitute a Significant Subsidiary, all outstanding notes will become due and payable without further action or notice. Holders of notes may not enforce the Indenture or notes except as provided in the Indenture. Subject to certain limitations, Holders of a majority in principal amount of the notes then outstanding may direct the Trustee in its exercise of any trust or power. The Trustee may withhold from Holders of notes notice of any continuing Default or Event of Default (except a Default or Event of Default relating to the payment of principal or interest) if it determines that withholding notice is in their interest.

The Holders of a majority in principal amount of the notes then outstanding by notice to the Trustee may on behalf of the Holders of all of the notes waive any existing Default or Event of Default and its consequences under the Indenture except a continuing Default or Event of Default in the payment of interest or premium on, or the principal of, the notes.

The Company is required to deliver to the Trustee annually a statement regarding compliance with the Indenture, and the Company is required, within five business days of becoming aware of any Default or Event of Default, to deliver to the Trustee a statement specifying such Default or Event of Default.

No liability of directors, officers, employees, incorporators, members and stockholders

No director, officer, employee, incorporator, member or stockholder of the Company or any Guarantor, as such, will have any liability for any obligations of the Company or such Guarantor under the notes or the Indenture or for any claim based on, in respect of, or by reason of, such obligations or their creation. Each holder of notes by accepting a note waives and releases all such liability. The waiver and release are part of the consideration for issuance of the notes. This waiver may not be effective to waive liabilities under the federal securities laws and it is the view of the Commission that such a waiver is against public policy.

Amendment, supplements and waivers

Except as provided in the next two succeeding paragraphs, the Indenture, the notes or the Guarantees may be amended or supplemented with the consent of the Holders of at least a majority in principal amount of the notes then outstanding (including, without limitation, consents obtained in connection with a purchase of, or tender offer or exchange offer for, the notes), and any existing Default or Event of Default (other than a Default or Event of Default in the payment of the principal of, premium, if any, or interest on the notes, except a payment default resulting from an acceleration that has been rescinded) or compliance with any provision of such Indenture, the notes or the Guarantees may be waived with the consent of the Holders of a majority in principal amount of the then outstanding notes (including consents obtained in connection with a tender offer or exchange offer for the notes).

Without the consent of each Holder affected, an amendment or waiver may not (with respect to any the notes held by a non-consenting Holder): (i) reduce the principal amount of the notes whose Holders must consent to an amendment, supplement or waiver, (ii) reduce the principal of or change the fixed maturity of any Note or alter the provisions with respect to the redemption of the notes (other than provisions relating to the covenants described above under the caption Repurchase at the option of holders , Asset sales and Change of control), (iii) reduce the rate of change the time for payment of interest on any Note, (iv) waive a Default or Event of Default in the payment of principal of or premium, if any, or interest on the notes (except a rescission of acceleration of the notes by the Holders of at least a majority in principal amount of such notes and a waiver of the payment default that resulted from such acceleration), (v) make any Note payable in money other than that stated in the notes, (vi) make any change in the provisions of the Indenture relating to waivers of past Defaults or the rights of Holders of notes to receive payments of principal of or premium, if any, or interest on the notes or

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(vii) make any change in the foregoing amendment and waiver provisions. In addition, any amendment to the provisions described under Repurchase at the option of holders or the provisions of Article 10 of the Indenture (which relate to subordination) will require the consent of the Holders of at least 66²/₃% in principal amount of the notes then outstanding if such amendment would adversely affect the rights of Holders of such notes. However, no amendment may be made to the subordination provisions of the Indenture that adversely affects the rights of any holder of Senior Debt then outstanding unless the holders of such Senior Debt (or any group or representative thereof authorized to give a consent) consents to such change.

Notwithstanding the foregoing, without the consent of any Holder of the notes the Company and the Trustee may amend or supplement the Indenture or the notes to cure any ambiguity, defect or inconsistency, to provide for uncertificated notes in addition to or in place of certificated notes, to add Subsidiary Guarantors, to provide for the assumption of the Company's obligations to Holders of the notes in the case of a merger or consolidation, to make any change that would provide any additional rights or benefits to the Holders of the notes or that does not adversely affect the legal rights under the Indenture of any such Holder, to secure the notes or to comply with requirements of the Commission in order to effect or maintain the qualification of the Indenture under the Trust Indenture Act.

Satisfaction and discharge

The Indenture will be discharged and will cease to be of further effect as to all notes issued thereunder, when: (1) either (a) all notes that have been authenticated (except lost, stolen or destroyed notes that have been replaced or paid and notes for whose payment money has theretofore been deposited in trust and thereafter repaid to the Company) have been delivered to the trustee for cancellation, or (b) all notes that have not been delivered to the trustee for cancellation have become due and payable by reason of the giving of a notice of redemption or otherwise or will become due and payable (including pursuant to a notice of redemption duly given) within one year and the Company or any Subsidiary Guarantor has irrevocably deposited or caused to be irrevocably deposited with the trustee as trust funds in trust solely for the benefit of the holders, cash in U.S. dollars, non-callable U.S. government securities, or a combination thereof, in such amounts as will be sufficient without consideration of any reinvestment of interest, to pay and discharge the entire indebtedness on the notes not delivered to the trustee for cancellation for principal, premium, if any, and accrued interest to the date of maturity or redemption; (2) no Default or Event of Default shall have occurred and be continuing on the date of such deposit or shall occur as a result of such deposit (other than a Default or Event of Default resulting from the borrowing of funds to be applied to such deposit) and such deposit will not result in a breach or violation of, or constitute a default under, any instrument (other than the indenture) to which the Company or any Subsidiary Guarantor is a party or by which the Company or any Subsidiary Guarantor is bound; (3) the Company or any Subsidiary Guarantor has paid or caused to be paid all other sums payable by it under the indenture; and (4) the Company has delivered an Officers' Certificate and an opinion of counsel to the trustee stating that all conditions precedent to satisfaction and discharge have been satisfied.

Legal defeasance and covenant defeasance

The Company may, at its option and at any time, elect to have all of its obligations discharged with respect to the outstanding notes (Legal Defeasance) except for (i) the rights of Holders of such outstanding notes to receive payments in respect of the principal of, premium, if any, or interest on such notes when such payments are due from the trust referred to below, (ii) the Company's obligations with respect to such notes concerning issuing temporary notes, registration of such notes, mutilated, destroyed, lost or stolen notes and the maintenance of an office or agency for payment and money for security payments held in trust, (iii) the rights, powers, trusts, duties and immunities of the Trustee, and the Company's obligations in connection therewith and (iv) 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 that are described in the Indenture (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

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non-payment, bankruptcy, receivership, rehabilitation and insolvency events with respect to the Company) described under Events of default and remedies will no longer constitute an Event of Default.

In order to exercise either Legal Defeasance or Covenant Defeasance, (i) the Company must irrevocably deposit with the Trustee, in trust, for the benefit of the Holders of notes, cash in U.S. dollars, non-callable 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 notes on the stated maturity or on the applicable redemption date, as the case may be, and the Company must specify whether the notes are being defeased to maturity or to a particular redemption date; (ii) in the case of Legal Defeasance, the Company shall have delivered to the Trustee an opinion of counsel in the United States reasonably acceptable to such 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 outstanding notes 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; (iii) in the case of Covenant Defeasance, the Company shall have delivered to the Trustee an opinion of counsel in the United States reasonably acceptable to such Trustee confirming that the Holders of the outstanding notes 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; (iv) no Default or Event of Default shall have occurred and be continuing on the date of such deposit (other than a Default or Event of Default resulting from the borrowing of funds to be applied to 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; (v) such Legal Defeasance or Covenant Defeasance will not result in a breach or violation of, or constitute a default under any material agreement or instrument (other than the Indenture) to which the Company or any of its Subsidiaries is a party or by which the Company or any of its Subsidiaries is bound; (vi) the Company must deliver to the Trustee an Officers Certificate stating that the deposit was not made by the Company with the intent of preferring the Holders of notes over the other creditors of the Company, or with the intent of defeating, hindering, delaying or defrauding creditors of the Company or others; and (vii) the Company must deliver to the Trustee an Officers Certificate and an opinion of counsel, each stating that all conditions precedent provided for relating to the Legal Defeasance or the Covenant Defeasance have been complied with.

Concerning the trustee

The Bank of New York Mellon Trust Company, N.A. will be the Trustee under the Indenture. The Trustee and its affiliates also perform and may in the future perform certain banking and other services for us in the ordinary course of their business. The Trustee will be the paying agent, conversion agent, transfer agent and bid solicitation agent for the notes.

The Trustee assumes no responsibility for this prospectus and has not reviewed or undertaken to verify any information contained in this prospectus.

Form, denomination and registration of the notes

The notes will be issued in registered form, without interest coupons, in denominations of \$1,000 and integral multiples thereof, in global form. Except in the limited circumstances described below, notes will not be issued in certificated form.

The trustee is not required (i) to issue, register the transfer of or exchange any note for a period of 15 days before a selection of notes to be redeemed or purchased pursuant to an offer to purchase, (ii) to register the transfer of or exchange any note so selected for redemption or purchase in whole or in part, except, in the case of

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a partial redemption or purchase, that portion of any the note not being redeemed or purchased, or (iii) if a redemption or a purchase pursuant to an Offer to Purchase is to occur after a regular record date but on or before the corresponding interest payment date, to register the transfer or exchange of any note on or after the regular record date and before the date of redemption or purchase.

No service charge will be imposed in connection with any transfer or exchange of any note, but the Company may in general require payment of a sum sufficient to cover any transfer tax or similar governmental charge payable in connection therewith.

Global notes

Global notes will be deposited with a custodian for DTC, and registered in the name of a nominee of DTC. Beneficial interests in the global notes will be shown on records maintained by DTC and its direct and indirect participants. So long as DTC or its nominee is the registered owner or holder of a global note, DTC or such nominee will be considered the sole owner or holder of the notes represented by such global note for all purposes under the Indenture and the notes. No owner of a beneficial interest in a global note will be able to transfer such interest except in accordance with DTC's applicable procedures and the applicable procedures of its direct and indirect participants.

The Company will apply to DTC for acceptance of the global notes in its book-entry settlement system. Investors may hold their beneficial interests in the global notes directly through DTC if they are participants in DTC, or indirectly through organizations which are participants in DTC.

Payments of principal and interest under global notes will be made to DTC's nominee as the registered owner of such global note. The Company expects that the nominee, upon receipt of any such payment, will immediately credit DTC participants' accounts with payments proportional to their respective beneficial interests in the principal amount of the relevant global note as shown on the records of DTC. The Company also expects that payments by DTC participants to owners of beneficial interests will be governed by standing instructions and customary practices, as is now the case with securities held for the accounts of customers registered in the names of nominees for such customers. Such payments will be the responsibility of such participants, and none of the Company, the Trustee, the custodian or any paying agent or registrar will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial interests in any global note or for maintaining or reviewing any records relating to such beneficial interests.

Certificated notes

If DTC notifies the Company that it is unwilling or unable to continue as depository for a global note and a successor depository is not appointed by the Company within 90 days of such notice, or an Event of Default has occurred and the Trustee has received a request from DTC, the Trustee will exchange each beneficial interest in that global note for one or more certificated notes registered in the name of the owner of such beneficial interest, as identified by DTC.

Same day settlement and payment

The Indenture will require that payments in respect of the notes represented by the global notes be made by wire transfer of immediately available funds to the accounts specified by holders of the global notes. With respect to notes in certificated form, the Company will make all payments by wire transfer of immediately available funds to the accounts specified by the holders thereof or, if no such account is specified, by mailing a check to each holder's registered address.

The notes represented by the global notes are expected to trade in DTC's Same-Day Funds Settlement System, and any permitted secondary market trading activity in such notes will, therefore, be required by DTC to be settled in immediately available funds. The Company expects that secondary trading in any certificated notes will also be settled in immediately available funds.

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Governing law

The Indenture, the notes and the Subsidiary Guarantees provide that they will be governed by the laws of the State of New York.

Certain definitions

Set forth below are certain defined terms used in the Indenture. Reference is made to the Indenture for a full definition of all such terms, as well as any other capitalized terms used herein for which no definition is provided. References to Statements of Financial Accounting Standards of the Financial Accounting Standards Board do not reflect the new nomenclature resulting from the FASB's codification of such Statements in its ASC 105, *Generally Accepted Accounting Principles*, issued in June 2009, but are deemed to include the codified Statements under their current nomenclature.

Acquired Debt means, with respect to any specified Person, (i) Indebtedness of any other Person existing at the time such other Person is merged with or into or became a Subsidiary of such specified Person, including, without limitation, Indebtedness incurred in connection with, or in contemplation of, such other Person merging with or into or becoming a Subsidiary of such specified Person, and (ii) Indebtedness secured by a Lien encumbering any asset acquired by such specified Person.

Adjusted Consolidated Net Tangible Assets means (without duplication), as of the date of determination, (i) the sum of (a) discounted future net revenues from proved oil and gas reserves of the Company and its Restricted Subsidiaries calculated in accordance with the Commission's guidelines before any state or federal income taxes, with no less than 80% of the discounted future net revenues estimated by one or more nationally recognized firms of 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 estimated discounted future net revenues from (1) estimated proved oil and gas reserves acquired since the date of such year-end reserve report, and (2) estimated oil and gas reserves attributable to upward revisions of estimates of proved oil and gas reserves since the date of such year-end reserve report due to exploration, development or exploitation activities, in each case calculated in accordance with the Commission's guidelines (utilizing the prices utilized in such year-end reserve report) increased by the accretion of the discount from the date of the reserve report to the date of determination, and decreased by, as of the date of determination, the estimated discounted future net revenues from (3) estimated proved oil and gas reserves produced or disposed of since the date of such year-end reserve report and (4) estimated oil and gas reserves attributable to downward revisions of estimates of proved oil and gas reserves since the date of such year-end reserve report due to changes in geological conditions or other factors which would, in accordance with standard industry practice, cause such revisions, in each case calculated in accordance with the Commission's guidelines (utilizing the prices utilized in such year-end reserve report); *provided that*, in the case of each of the determinations made pursuant to clause (1) through (4), such increases and decreases shall be as estimated by the Company's petroleum engineers, unless in the event that there is a Material Change as a result of such acquisitions, dispositions or revisions, then the discounted future net revenues utilized for purposes of this clause (i)(a) shall be confirmed in writing by one or more nationally recognized firms of independent petroleum engineers, (b) 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, (c) the Net Working Capital on a date no earlier than the date of the Company's latest annual or quarterly financial statements and (d) the greater of (1) the net book value on a date no earlier than the date of the Company's latest annual or quarterly financial statements or (2) the book value of other tangible assets (including, without duplication, investments in unconsolidated Restricted Subsidiaries and mineral rights held under lease or other contractual arrangements) of the Company and its Restricted Subsidiaries, as of the date no earlier than the date of the Company's latest annual or quarterly financial statements, minus (ii) the sum of (a) minority interests, (b) any gas balancing liabilities of the Company and its Restricted Subsidiaries reflected in the Company's latest audited financial statements, and (c) the discounted future net revenues, calculated in accordance with the Commission's guidelines, attributable to

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reserves subject to Dollar-Denominated Production Payments which, based on the estimates of production and price assumptions included in determining the discounted future net revenues specified in (i)(a) above, 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. If the Company changes its method of accounting from the successful efforts method to the full cost method or a similar method of accounting, Adjusted Consolidated Net Tangible Assets will continue to be calculated as if the Company was still using the successful efforts 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 purposes of this definition, control (including, with correlative meanings, the terms controlling, controlled by and under common control with), as used with respect to any Person, shall mean the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of such Person, whether through the ownership of voting securities, by agreement or otherwise; *provided* that beneficial ownership of 10% or more of the voting securities of a Person shall be deemed to be control.

Asset Sale means (i) the sale, lease, conveyance or other disposition (but excluding the creation of or disposition pursuant to a Lien) of any assets including, without limitation, by way of a sale and leaseback; *provided* that the sale, lease, conveyance or other disposition of all or substantially all of the assets of the Company and its Subsidiaries taken as a whole will be governed by the provisions of the Indenture described above under the caption Repurchase at the option of Holders Change of control and/or the provisions described above under the caption Certain covenants Merger, consolidation or sale of substantially all assets and not by the provisions described above under Repurchase at the option of holders Asset sales, and (ii) the issuance or sale by the Company or any of its Restricted Subsidiaries of Equity Interests of any of the Company's Subsidiaries (including the sale by the Company or a Restricted Subsidiary of Equity Interests in an Unrestricted Subsidiary), in the case of either clause (i) or (ii), whether in a single transaction or a series of related transactions (a) that have a fair market value in excess of \$5.0 million or (b) for net proceeds in excess of \$5.0 million. Notwithstanding the foregoing, the following shall not be deemed to be Asset Sales: (i) a transfer of assets by the Company to a Wholly Owned Restricted Subsidiary of the Company or by a Wholly Owned Restricted Subsidiary of the Company to the Company or to another Wholly Owned Restricted Subsidiary of the Company, (ii) an issuance of Equity Interests by a Wholly Owned Restricted Subsidiary of the Company to the Company or to another Wholly Owned Restricted Subsidiary of the Company, (iii) the making of a Permitted Investment or Restricted Payment that is permitted by the covenant described above under the caption Certain covenants Restricted payments, (iv) the abandonment, farm-out, lease or sublease of undeveloped oil and gas properties in the ordinary course of business, (v) the trade or exchange by the Company or any Restricted Subsidiary of the Company of any oil and gas property owned or held by the Company or such Restricted Subsidiary for any oil and gas property owned or held by another Person, which the Board of Directors of the Company determines in good faith to be of approximately equivalent value, (vi) the trade or exchange by the Company or any Subsidiary of the Company of any oil and gas property owned or held by the Company or such Subsidiary for Equity Interests in another Person engaged primarily in the Oil and Gas Business which, together with all other such trades or exchanges (to the extent excluded from the definition of Asset Sale pursuant to this clause (vi)) since the date of the Indenture, does not exceed 5% of Adjusted Consolidated Net Tangible Assets determined after such trade or exchange, (vii) the sale or transfer of hydrocarbons or other mineral products or other inventory or surplus or obsolete equipment in the ordinary course of business or (viii) sales of assets or property (including Capital Stock) described in paragraph (c)(iv) of the covenant described above under Certain covenants Restricted payments.

Attributable Debt in respect of a sale and leaseback transaction means, at the time of determination, the present value (discounted at the rate of interest implicit in such transaction, determined in accordance with GAAP) of the obligation of the lessee for net rental payments during the remaining term of the lease included in such sale and leaseback transaction (including any period for which such lease has been extended or may, at the option of the lessor, be extended).

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Capital Lease Obligation means, at the time any determination thereof is to be made, the amount of the liability in respect of a capital lease that would at such time be required to be capitalized on a balance sheet in accordance with GAAP.

Capital Stock means (i) in the case of a corporation, corporate stock, (ii) in the case of an association or business entity, any and all shares, interests, participations, rights or other equivalents (however designated) of corporate stock, (iii) in the case of a partnership, partnership interests (whether general or limited), (iv) in the case of a limited liability company or similar entity, any membership or similar interests therein and (v) any other interest or participation that confers on a Person the right to receive a share of the profits and losses of, or distributions of assets of, the issuing Person, in each case excluding debt securities convertible or exchangeable for any of the foregoing.

Cash Equivalents means (i) United States dollars, (ii) securities issued or directly and fully guaranteed or insured by the United States government or any agency or instrumentality thereof having maturities of not more than six months from the date of acquisition, (iii) certificates of deposit and eurodollar time deposits with maturities of six months or less from the date of acquisition, bankers' acceptances with maturities not exceeding six months and overnight bank deposits, in each case with any lender party to the Credit Agreement or with any domestic commercial bank having capital and surplus in excess of \$500 million and a Thompson Bank Watch Rating of B or better, (iv) repurchase obligations with a term of not more than seven days for underlying securities of the types described in clauses (ii) and (iii) above entered into with any financial institution meeting the qualifications specified in clause (iii) above, (v) commercial paper having a rating of at least P1 from Moody's Investors Service, Inc. (or its successor) and a rating of at least A1 from Standard & Poor's Ratings Group (or its successor) and (vi) investments in money market or other mutual funds substantially all of whose assets comprise securities of the types described in clauses (ii) through (v) above.

Change of Control means the occurrence of any of the following: (i) the sale, lease, transfer, conveyance or other disposition (other than by way of merger or consolidation), in one or a series of related transactions, of all or substantially all of the assets of the Company and its Subsidiaries taken as a whole to any person or group of related persons (a Group) (as such terms are used in Section 13(d)(3) of the Exchange Act), (ii) the adoption of a plan relating to the liquidation or dissolution of the Company, (iii) the consummation of any transaction (including, without limitation, any purchase, sale, acquisition, disposition, merger or consolidation) the result of which is that any person (as defined above) or Group becomes the beneficial owner (as such term is defined in Rule 13d-3 and Rule 13d-5 under the Exchange Act) of more than 40% of the aggregate voting power of all classes of Capital Stock of the Company having the right to elect directors under ordinary circumstances or (iv) the first day on which a majority of the members of the Board of Directors of the Company are not Continuing Directors.

Commission means the Securities and Exchange Commission.

Consolidated Cash Flow means, with respect to any Person for any period, the Consolidated Net Income of such Person and its Restricted Subsidiaries for such period plus (i) an amount equal to any extraordinary loss, plus any net loss realized in connection with an Asset Sale (together with any related provision for taxes), to the extent such losses were included in computing such Consolidated Net Income, plus (ii) provision for taxes based on income or profits of such Person and its Restricted Subsidiaries for such period, to the extent that such provision for taxes was included in computing such Consolidated Net Income, plus (iii) consolidated interest expense of such Person and its Restricted Subsidiaries for such period, whether paid or accrued (including, without limitation, amortization of original issue discount, non-cash interest payments, the interest component of any deferred payment obligations, the interest component of all payments associated with Capital Lease Obligations, imputed interest with respect to Attributable Debt, commissions, discounts and other fees and charges incurred in respect of letters of credit or bankers' acceptance financings, and net payments (if any) pursuant to Interest Rate Hedging Agreements), to the extent that any such expense was included in computing such Consolidated Net Income, plus (iv) depreciation, depletion and amortization expenses (including

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amortization of goodwill and other intangibles) for such Person and its Restricted Subsidiaries for such period to the extent that such depreciation, depletion and amortization expenses were included in computing such Consolidated Net Income, *plus* (v) exploration expenses for such Person and its Restricted Subsidiaries for such period to the extent such exploration expenses were included in computing such Consolidated Net Income, *plus* (vi) other non-cash charges (excluding any such non-cash charge to the extent that it represents an accrual of or reserve for cash charges in any future period or amortization of a prepaid cash expense that was paid in a prior period) of such Person and its Restricted Subsidiaries for such period to the extent that such other non-cash charges were included in computing such Consolidated Net Income, in each case, on a consolidated basis and determined in accordance with GAAP. Notwithstanding the foregoing, the provision for taxes on the income or profits of, and the depreciation, depletion and amortization and other non-cash charges and expenses of, a Restricted Subsidiary of the referent Person shall be added to Consolidated Net Income to compute Consolidated Cash Flow only to the extent (and in the same proportion) that the Net Income of such Restricted Subsidiary was included in calculating the Consolidated Net Income of such Person and only if a corresponding amount would be permitted at the date of determination to be dividended to the referent Person by such Restricted Subsidiary without prior governmental approval (that has not been obtained), and without direct or indirect restriction pursuant to the terms of its charter and all agreements, instruments, judgments, decrees, orders, statutes, rules and governmental regulations applicable to that Restricted Subsidiary or its stockholders.

Consolidated Net Income means, with respect to any Person for any period, the aggregate of the Net Income of such Person and its Subsidiaries for such period, on a consolidated basis, determined in accordance with GAAP; *provided* that (i) the Net Income (but not loss) of any Person that is not a Restricted Subsidiary or that is accounted for by the equity method of accounting shall be included only to the extent of the amount of dividends or distributions paid in cash to the referent Person or a Wholly Owned Restricted Subsidiary thereof, (ii) the Net Income of any Restricted Subsidiary shall be excluded to the extent that the declaration or payment of dividends or similar distributions by that Restricted Subsidiary of that Net Income is not at the date of determination permitted without any prior governmental approval (that has not been obtained) or, directly or indirectly, by operation of the terms of its charter or any agreement, instrument, judgment, decree, order, statute, rule or governmental regulation applicable to that Restricted Subsidiary or its stockholders, (iii) the Net Income of any Person acquired in a pooling of interests transaction for any period prior to the date of such acquisition shall be excluded, (iv) the cumulative effect of a change in accounting principles shall be excluded, (v) any impairments or write-downs of oil and natural gas assets shall be excluded, *provided, however*, that ceiling limitation write-downs in accordance with GAAP shall be treated as capitalized costs, as if such write-downs had not occurred, (vi) extraordinary non-cash losses shall be excluded, (vii) any non-cash compensation expenses realized for grants of performance shares, stock options or stock awards to officers, directors and employees of the Company or any of its Restricted Subsidiaries shall be excluded and (viii) any unrealized non-cash gains or losses or charges in respect of hedge or non-hedge derivatives (including those resulting from the application of SFAS 133) shall be excluded.

Continuing Directors means, as of any date of determination, any member of the Board of Directors of the Company who (i) was a member of such Board of Directors on the date of original issuance of the notes or (ii) was nominated for election or elected to such Board of Directors with the approval of a majority of the Continuing Directors who were members of such Board at the time of such nomination.

Credit Agreement means that certain Fourth Amended and Restated Credit Agreement, dated as of February 18, 2011, as amended as of February 21, 2012, by and among the Company, certain Subsidiaries of the Company, JPMorgan Chase Bank, N.A., Royal Bank of Canada, Bank of America, N.A., Credit Agricole Corporate and Investment Bank, Wells Fargo Bank, National Association, Bank of Montreal, Barclays Bank PLC, BNP Paribas, Citibank, N.A., Compass Bank, Deutsche Bank Trust Company Americas, Natixis, The Bank of Nova Scotia, Suntrust Bank, Union Bank, N.A., Capital One, N.A., Comerica Bank, Credit Suisse AG, Cayman Islands Branch, KeyBank National Association, Société Générale, UBS Loan Finance LLC, U.S. Bank National Association, Bank of Scotland plc, BOKF, NA dba Bank of Texas, Amegy Bank National Association, The Frost National Bank and Sterling Bank (hereinafter collectively referred to as *Lenders*), and individually,

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Lender) and JPMorgan Chase Bank N.A., as Administrative Agent and Issuing Bank, Bank of America, N.A., as Co-Documentation Agent, Wells Fargo Bank, National Association, as Co-Documentation Agent, Credit Agricole Corporate and Investment Bank, as Co-Syndication Agent, Royal Bank of Canada, as Co-Syndication Agent, as such credit agreement has been amended or supplemented to the date of the Indenture, including any related notes, guarantees, collateral documents, instruments and agreements executed in connection therewith, and in each case as amended, restated, modified, renewed, refunded, replaced or refinanced, in whole or in part, from time to time, whether or not with the same lenders or agents.

Credit Facilities means, with respect to the Company, one or more debt facilities (including, without limitation, the Credit Agreement) or commercial paper facilities with banks or other institutional lenders providing for revolving credit loans, term loans, production payment financing, 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.

Default means any event that is or with the passage of time or the giving of notice or both would be an Event of Default.

Designated Senior Debt means (i) the Credit Agreement and (ii) any other Senior Debt permitted under the Indenture the principal amount of which is \$25 million or more and that has been designated by the Company as Designated Senior Debt.

Disqualified Stock means any Capital Stock to the extent that, 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, matures or is mandatorily redeemable, pursuant to a sinking fund obligation or otherwise, or redeemable at the option of the holder thereof, in whole or in part, on or prior to the date that is 91 days after the date on which the notes mature.

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

Equity Interests means Capital Stock and all warrants, options or other rights to acquire Capital Stock (but excluding any debt security that is convertible into, or exchangeable for, Capital Stock).

Fixed Charge Coverage Ratio means with respect to any Person for any period, the ratio of the Consolidated Cash Flow of such Person for such period to the Fixed Charges of such Person for such period. In the event that the Company or any of its Restricted Subsidiaries incurs, assumes, guarantees or redeems any Indebtedness (other than revolving credit borrowings) or issues preferred stock subsequent to the commencement of the period for which the Fixed Charge Coverage Ratio is being calculated but prior to the date on which the calculation of the Fixed Charge Coverage Ratio is made (the Calculation Date), then the Fixed Charge Coverage Ratio shall be calculated giving pro forma effect to such incurrence, assumption, guarantee or redemption of Indebtedness, or such issuance or redemption of preferred stock, as if the same had occurred at the beginning of the applicable four-quarter reference period. In addition, for purposes of making the computation referred to above, (i) acquisitions that have been made by the referent Person or any of its Restricted Subsidiaries, including through mergers or consolidations and including any-related financing transactions, during the four-quarter reference period or subsequent to such reference period and on or prior to the Calculation Date (including, without limitation, any acquisition to occur on the Calculation Date) shall be deemed to have occurred on the first day of the four-quarter reference period and Consolidated Cash Flow for such reference period shall be calculated without giving effect to clause (iii) of the proviso set forth in the definition of Consolidated Net Income, (ii) the net proceeds of Indebtedness incurred or Disqualified Stock issued by the referent Person pursuant to the first paragraph of the covenant described under the caption Certain covenants Incurrence of indebtedness and issuance of disqualified stock during the four-quarter reference period or subsequent to such reference period and on or prior to the Calculation Date shall be deemed to have been

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received by the referent Person or any of its Restricted Subsidiaries on the first day of the four-quarter reference period and applied to its intended use on such date, (iii) the Consolidated Cash Flow attributable to discontinued operations, as determined in accordance with GAAP, and operations or businesses disposed of prior to the Calculation Date, shall be excluded, and (iv) the Fixed Charges attributable to discontinued operations, as determined in accordance with GAAP, and operations or businesses disposed of prior to the Calculation Date, shall be excluded, but only to the extent that the obligations giving rise to such Fixed Charges will not be obligations of the referent Person or any of its Restricted Subsidiaries following the Calculation Date.

Fixed Charges means, with respect to any Person for any period, the sum, without duplication, of (i) the consolidated interest expense of such Person and its Restricted Subsidiaries for such period, whether paid or accrued (including, without limitation, amortization of original issue discount, non-cash interest payments, the interest component of any deferred payment obligations, the interest component of all payments associated with Capital Lease Obligations, imputed interest with respect to Attributable Debt, commissions, discounts and other fees and charges incurred in respect of letter of credit or bankers acceptance financings, and net payments (if any) pursuant to Interest Rate Hedging Agreements), (ii) the consolidated interest expense of such Person and its Restricted Subsidiaries that was capitalized during such period, (iii) any interest expense on Indebtedness of another Person that is guaranteed by such Person or any of its Restricted Subsidiaries or secured by a Lien on assets of such Person or any of its Restricted Subsidiaries (whether or not such guarantee or Lien is called upon) and (iv) the product of (a) all cash dividend payments (and non-cash dividend payments in the case of a Person that is a Restricted Subsidiary) on any series of preferred stock of such Person or any of its Restricted Subsidiaries, times (b) a fraction, the numerator of which is one and the denominator of which is one minus the then current combined federal, state and local statutory tax rate of such Person, expressed as a decimal, in each case, on a consolidated basis and in accordance with GAAP.

GAAP means generally accepted accounting principles set forth in the opinions and pronouncements of the Accounting Principles Board of the American Institute of Certified Public Accountants and statements and pronouncements of the Financial Accounting Standards Board or in such other statements by such other entity as have been approved by a significant segment of the accounting profession, which are in effect on the date of the Indenture.

Guarantee means a guarantee (other than by endorsement of negotiable instruments for collection in the ordinary course of business), direct or indirect, in any manner (including, without limitation, letters of credit and reimbursement agreements in respect thereof), of all or any part of any Indebtedness.

Indebtedness means, with respect to any Person, without duplication, (a) any indebtedness of such Person, whether or not contingent, (i) in respect of borrowed money, (ii) evidenced by bonds, notes, debentures or similar instruments, (iii) evidenced by letters of credit (or reimbursement agreements in respect thereof) or banker's acceptances, (iv) representing Capital Lease Obligations, (v) representing the balance deferred and unpaid of the purchase price of any property, except any such balance that constitutes an accrued expense or trade payable, (vi) representing any obligations in respect of Interest Rate Hedging Agreements or Oil and Gas Hedging Contracts, and (vii) in respect of any Production Payment, (b) all indebtedness of others secured by a Lien on any asset of such Person (whether or not such indebtedness is assumed by such Person), (c) Attributable Debt of such Person, and (d) to the extent not otherwise included in the foregoing, the guarantee by such Person of any indebtedness of any other Person, provided that the indebtedness described in clauses (a)(i), (ii), (iv) and (v) shall be included in this definition of Indebtedness only if, and to the extent that, the indebtedness described in such clauses would appear as a liability upon a balance sheet of such Person prepared in accordance with GAAP.

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

Investments means, with respect to any Person, all investments by such Person in other Persons (including Affiliates) in the form of direct or indirect loans (including guarantees of Indebtedness or other obligations, but

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excluding trade credit and other ordinary course advances customarily made in the oil and gas industry), advances or capital contributions (excluding commission, travel and similar advances to officers and employees made in the ordinary course of business), purchases or other acquisitions for consideration of Indebtedness, Equity Interests or other securities, together with all items that are or would be classified as investments on a balance sheet prepared in accordance with GAAP; *provided* that the following shall not constitute Investments: (i) an acquisition of assets, Equity Interests or other securities by the Company for consideration consisting of common equity securities of the Company, (ii) Interest Rate Hedging Agreements entered into in accordance with the limitations set forth in clause (h) of the definition of Permitted Indebtedness set forth under the caption Certain covenants Incurrence of indebtedness and issuance of disqualified stock, (iii) Oil and Gas Hedging Contracts entered into in accordance with the limitations set forth in clause (i) of the definition of Permitted Indebtedness set forth under the caption Certain covenants Incurrence of indebtedness and issuance of disqualified stock and (iv) endorsements of negotiable instruments and documents in the ordinary course of business.

Lien means, with respect to any asset, any mortgage, lien, pledge, charge, security interest or encumbrance of any kind in respect of such asset, whether or not filed, recorded or otherwise perfected under applicable law (including any conditional sale or other title retention agreement, any lease in the nature thereof, any option or other agreement to sell or give a security interest in and any filing of or agreement to give any financing statement under the Uniform Commercial Code (or equivalent statutes) of any jurisdiction other than a precautionary financing statement with respect to a lease not intended as a security agreement).

Material Change means an increase or decrease (excluding changes that result solely from changes in prices) of more than 20% during a fiscal quarter in the estimated discounted future net cash flows from proved oil and gas reserves of the Company and its Restricted Subsidiaries, calculated in accordance with clause (i)(a) of the definition of Adjusted Consolidated Net Tangible Assets; *provided, however*, that the following will be excluded from the calculation of Material Change: (i) any acquisitions during the quarter of oil and gas reserves that have been estimated by one or more nationally recognized firms of independent petroleum engineers and on which a report or reports exist and (ii) any disposition of properties existing at the beginning of such quarter that have been disposed of as provided in the Asset Sales covenant.

Net Income means, with respect to any Person, the net income (loss) of such Person, determined in accordance with GAAP and before any reduction in respect of preferred stock dividends, excluding, however, (i) any gain (but not loss), together with any related provision for taxes on such gain (but not loss), realized in connection with (a) any Asset Sale (including, without limitation, dispositions pursuant to sale and leaseback transactions) or (b) the disposition of any securities by such Person or any of its Restricted Subsidiaries or the extinguishment of any Indebtedness of such Person or any of its Restricted Subsidiaries and (ii) any extraordinary or nonrecurring gain (but not loss), together with any related provision for taxes on such extraordinary or nonrecurring gain (but not loss).

Net Proceeds means the aggregate cash proceeds received by the Company or any of its Restricted Subsidiaries in respect of any Asset Sale (including, without limitation, any cash received upon the sale or other disposition of any non-cash consideration received in any Asset Sale, but excluding cash amounts placed in escrow, until such amounts are released to the Company), net of the direct costs relating to such Asset Sale (including, without limitation, legal, accounting and investment banking fees and expenses, and sales commissions) and any relocation expenses incurred as a result thereof, taxes paid or payable as a result thereof (after taking into account any available tax credits or deductions and any tax sharing arrangements), amounts required to be applied to the repayment of Indebtedness (other than Indebtedness under any Credit Facility) secured by a Lien on the asset or assets that were the subject of such Asset Sale and any reserve for adjustment in respect of the sale price of such asset or assets established in accordance with GAAP and any reserve established for future liabilities.

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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, in each case as set forth in financial statements of the Company prepared in accordance with GAAP (excluding any adjustments made pursuant to FASB ASC 815, *Derivatives and Hedging*).

Non-Recourse Debt means Indebtedness (i) as to which neither the Company nor any of its Restricted Subsidiaries (a) provides any guarantee or credit support of any kind (including any undertaking, guarantee, indemnity, agreement or instrument that would constitute Indebtedness), or (b) is directly or indirectly liable (as a guarantor or otherwise); (ii) no default with respect to which (including any rights that the holders thereof may have to take enforcement action against an Unrestricted Subsidiary) would permit (upon notice, lapse of time or both) any holder of any other Indebtedness of the Company or any of its Restricted Subsidiaries to declare a default on such other Indebtedness or cause the payment thereof to be accelerated or payable prior to its stated maturity; and (iii) the explicit terms of which provide that there is no recourse against any of the assets of the Company or its Restricted Subsidiaries.

Obligations means any principal, interest, penalties, fees, indemnifications, reimbursements, damages and other liabilities payable under the documentation governing any Indebtedness.

Oil and Gas Business means (i) the acquisition, exploration, development, operation and disposition of interests in oil, gas and other hydrocarbon properties, (ii) the gathering, marketing, treating, processing, storage, distribution, selling and transporting of any production from such interests or properties, (iii) any business relating to exploration for or development, production, treatment, processing, storage, transportation or marketing of oil, gas and other minerals and products produced in association therewith and (iv) any activity that is ancillary to or necessary or appropriate for the activities described in clauses (i) through (iii) of this definition.

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 oil and gas price fluctuations.

pari passu Indebtedness means Indebtedness that ranks *pari passu* in right of payment to the notes.

Permitted Indebtedness has the meaning given in the covenant described under the caption **Certain covenants** **Incurrence of indebtedness and issuance of disqualified stock**.

Permitted Investments means (a) any Investment in the Company or in a Wholly Owned Restricted Subsidiary of the Company; (b) any Investment in Cash Equivalents or securities issued or directly and fully guaranteed or insured by the United States government or any agency or instrumentality thereof having maturities of not more than one year from the date of acquisition; (c) any Investment by the Company or any Restricted Subsidiary of the Company in a Person if, as a result of such Investment and any related transactions that at the time of such Investment are contractually mandated to occur, (i) such Person becomes a Wholly Owned Restricted Subsidiary of the Company or (ii) such Person is merged, consolidated or amalgamated with or into, or transfers or conveys all or substantially all of its assets to, or is liquidated into, the Company or a Wholly Owned Restricted Subsidiary of the Company; (d) any Investment made as a result of the receipt of non-cash consideration from an Asset Sale that was made pursuant to and in compliance with the covenant described above under the caption **Repurchase at the option of holders** **Asset sales**; (e) other Investments in any Person or Persons having an aggregate fair market value (measured on the date each such Investment was made and without giving effect to subsequent changes in value), when taken together with all other Investments made pursuant to this clause (e) that are at the time outstanding, not to exceed \$10.0 million; (f) any Investment acquired by the Company in exchange for Equity Interests in the Company (other than Disqualified Stock); (g) shares of Capital Stock received in connection with any good faith settlement of a bankruptcy proceeding involving a trade creditor; (h) entry into operating agreements, joint ventures, partnership agreements, working interests, royalty interests, mineral leases, processing agreements, farm-out agreements, contracts for the sale, transportation or exchange of oil and natural gas, unitization agreements, pooling arrangements, area of mutual

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interest agreements, production sharing agreements 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 the ordinary course of the Oil and Gas Business, excluding, however, Investments in corporations other than any Investment received pursuant to the Asset Sale provision; and (i) the acquisition of any Equity Interests pursuant to a transaction of the type described in clause (vi) of the exclusions from the definition of Asset Sale.

Permitted Liens means (i) Liens securing Indebtedness of a Subsidiary or Liens securing Senior Debt, in each case, that is outstanding on the date of issuance of the notes and Liens securing Senior Debt that is permitted by the terms of the Indenture to be incurred; (ii) Liens in favor of the Company; (iii) Liens on property or assets existing at the time of acquisition thereof by the Company or any Subsidiary of the Company and Liens on property or assets of a Subsidiary existing at the time it became a Subsidiary, *provided* that such Liens were in existence prior to the contemplation of the acquisition and do not extend to any assets other than the acquired property; (iv) Liens incurred or deposits made in the ordinary course of business in connection with workers' compensation, unemployment insurance or other kinds of social security, or to secure the payment or performance of tenders, statutory or regulatory obligations, surety or appeal bonds, performance bonds or other obligations of a like nature incurred in the ordinary course of business (including lessee or operator obligations under statutes, governmental regulations or instruments related to the ownership, exploration and production of oil, gas and minerals on state or federal lands or waters); (v) Liens existing on the date of the Indenture; (vi) Liens for taxes, assessments or governmental charges or claims that are not yet delinquent or that are being contested in good faith by appropriate proceedings promptly instituted and diligently concluded, *provided* that any reserve or other appropriate provision as shall be required in conformity with GAAP shall have been made therefor; (vii) statutory liens of landlords, mechanics, suppliers, vendors, warehousemen, carriers or other like Liens arising in the ordinary course of business; (viii) judgment Liens not giving rise to an Event of Default so long as any appropriate legal proceeding that may have been duly initiated for the review of such judgment shall not have been finally terminated or the period within which such proceeding may be initiated shall not have expired; (ix) Liens on, or related to, properties or assets to secure all or part of the costs incurred in the ordinary course of the Oil and Gas Business for the exploration, drilling, development, or operation thereof; (x) Liens on pipelines or pipeline facilities that arise under operation of law; (xi) Liens arising under operating agreements, joint venture agreements, partnership agreements, oil and gas leases, farm-out agreements, division orders, contracts for the sale, transportation or exchange of oil or natural gas, unitization and pooling declarations and agreements, area of mutual interest agreements and other agreements that are customary in the Oil and Gas Business; (xii) Liens reserved in oil and gas mineral leases for bonus or rental payments and for compliance with the terms of such leases; (xiii) Liens securing the notes; and (xiv) Liens not otherwise permitted by clauses (i) through (xiii) that are incurred in the ordinary course of business of the Company or any Subsidiary of the Company with respect to obligations that do not exceed \$5.0 million at any one time outstanding.

Permitted Refinancing Debt means any Indebtedness of the Company or any of its Restricted Subsidiaries issued in exchange for, or the net proceeds of which are used to extend, refinance, renew, replace, defease or refund other Indebtedness (other than Indebtedness incurred under a Credit Facility) of the Company or any of its Restricted Subsidiaries; *provided* that: (i) the principal amount of such Permitted Refinancing Debt does not exceed the principal amount of the Indebtedness so extended, refinanced, renewed, replaced, defeased or refunded (*plus* the amount of reasonable expenses incurred in connection therewith); (ii) such Permitted Refinancing Debt has a final maturity date on or later than the final maturity date of, and has a Weighted Average Life to Maturity equal to or greater than the Weighted Average Life to Maturity of, the Indebtedness being extended, refinanced, renewed, replaced, defeased or refunded; (iii) if the Indebtedness being extended, refinanced, renewed, replaced, defeased or refunded is subordinated in right of payment to the notes, such Permitted Refinancing Debt has a final maturity date later than the final maturity date of, and is subordinated in right of payment to, the notes on terms at least as favorable taken as a whole to the Holders of notes as those contained in the documentation governing the Indebtedness being extended, refinanced, renewed, replaced, defeased or refunded; and (iv) such Indebtedness is incurred either by the Company or by the Restricted Subsidiary who is the obligor on the Indebtedness being extended, refinanced, renewed, replaced, defeased or refunded.

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

Restricted Investment means an Investment other than a Permitted Investment.

Restricted Subsidiary means any direct or indirect Subsidiary of the Company that is not an Unrestricted Subsidiary.

Senior Debt means (i) Indebtedness of the Company or any Subsidiary of the Company under or in respect of any Credit Facility, whether for principal, interest (including interest accruing after the filing of a petition initiating any proceeding pursuant to any bankruptcy law, whether or not the claim for such interest is allowed as a claim in such proceeding), reimbursement obligations, fees, commissions, expenses, indemnities or other amounts, and (ii) any other Indebtedness permitted under the terms of the Indenture, unless the instrument under which such Indebtedness is incurred expressly provides that it is on a parity with or subordinated in right of payment to the notes; *provided* that the Company's 7/2% Senior Subordinated Notes due 2017, 7 1/4% Senior Subordinated Notes due 2018, 8% Senior Subordinated Notes due 2019, 6 3/4% Senior Subordinated Notes due 2020 and 5 3/4% Senior Subordinated Notes due 2021, outstanding on the date of the indenture shall be deemed to rank on parity with the notes and shall not be Senior Debt. Notwithstanding anything to the contrary in the foregoing sentence, Senior Debt will not include (w) any liability for federal, state, local or other taxes owed or owing by the Company, (x) any Indebtedness of the Company to any of its Subsidiaries or other Affiliates, (y) any trade payables or (z) any Indebtedness that is incurred in violation of the Indenture (other than Indebtedness under (i) any Credit Agreement or (ii) any other Credit Facility that is incurred on the basis of a representation by the Company to the applicable lenders that it is permitted to incur such Indebtedness under the Indenture).

Significant Subsidiary means any Subsidiary of the Company that would be a significant subsidiary as defined in Article I, Rule 1-02 of Regulation S-X, promulgated pursuant to the Exchange Act, as such Regulation is in effect on the date hereof.

Subsidiary means, with respect to any Person, (i) any corporation, association or other business entity of which more than 50% of the total voting power of shares of Capital Stock, entitled (without regard to the occurrence of any contingency) to vote in the election of directors, managers or trustees thereof is at the time owned or controlled, directly or indirectly, by such Person or one or more of the other Subsidiaries of that Person (or a combination thereof) and (ii) any partnership (a) the sole general partner or the managing general partner of which is such Person or a Subsidiary of such Person or (b) the only general partners of which are such Person or of one or more Subsidiaries of such Person (or any combination thereof).

Subsidiary Guarantors means initially the following Restricted Subsidiaries of the Company existing on the date of the Indenture: American Energy Systems, LLC; Energy Assets Operating Company, LLC; Range Energy Services Company, LLC; Range Operating New Mexico, LLC; Range Production Company; Range Resources Appalachia, LLC; Range Resources Midcontinent, LLC; Range Resources Pine Mountain, Inc. and Range Texas Production, LLC and any other future Restricted Subsidiary of the Company that executes a Guarantee in accordance with the provisions of the Indenture and, in each case, their respective successors and assigns, *provided* that, in no event shall any future acquired or created foreign Subsidiary be a Subsidiary Guarantor under the Indenture.

Total Assets means, with respect to any Person, the total consolidated assets of such Person and its Restricted Subsidiaries, as shown on the most recent balance sheet of such Person.

Unrestricted Subsidiary means (i) any Subsidiary of the Company which at the time of determination shall be an Unrestricted Subsidiary (as designated by the Board of Directors of the Company, as provided below) and (ii) any Subsidiary of an Unrestricted Subsidiary. The Board of Directors of the Company may designate any

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Subsidiary of the Company (including any newly acquired or newly formed Subsidiary or a Person becoming a Subsidiary through merger or consolidation or Investment therein) to be an Unrestricted Subsidiary only if (a) such Subsidiary does not own any Capital Stock of, or own or hold any Lien on any property of, any other Subsidiary of the Company which is not a Subsidiary of the Subsidiary to be so designated or otherwise an Unrestricted Subsidiary; (b) all the Indebtedness of such Subsidiary shall, at the date of designation, and will at all times thereafter, consist of Non-Recourse Debt; (c) the Company certifies that such designation complies with the Restricted payments covenant; (d) such Subsidiary, either alone or in the aggregate with all other Unrestricted Subsidiaries, does not operate, directly or indirectly, all or substantially all of the business of the Company and its Subsidiaries; (e) such Subsidiary does not, directly or indirectly, own any Indebtedness of or Equity Interest in, and has no investments in, the Company or any Restricted Subsidiary; (f) such Subsidiary is a Person with respect to which neither the Company nor any of its Restricted Subsidiaries has any direct or indirect obligation (1) to subscribe for additional Equity Interests or (2) to maintain or preserve such Person's financial condition or to cause such Person to achieve any specified levels of operating results; and (g) on the date such Subsidiary is designated an Unrestricted Subsidiary, such Subsidiary is not a party to any agreement, contract, arrangement or understanding with the Company or any Restricted Subsidiary with terms substantially less favorable to the Company than those that might have been obtained from Persons who are not Affiliates of the Company. Any such designation by the Board of Directors of the Company shall be evidenced to the Trustee by filing with the Trustee a resolution of the Board of Directors of the Company giving effect to such designation and an Officers Certificate certifying that such designation complied with the foregoing conditions. As of the date of the Indenture, the Company does not have any Subsidiaries designated as Unrestricted Subsidiaries. If, at any time, any Unrestricted Subsidiary would fail to meet the foregoing requirements as an Unrestricted Subsidiary, it shall thereafter cease to be an Unrestricted Subsidiary for purposes of the Indenture and any Indebtedness of such Subsidiary shall be deemed to be incurred as of such date. The Board of Directors of the Company may designate any Unrestricted Subsidiary to be Restricted Subsidiary; *provided*, that (i) immediately after giving effect to such designation, no Default or Event of Default shall have occurred and be continuing or would occur as a consequence thereof and the Company could incur at least \$1.00 of additional Indebtedness (excluding Permitted Indebtedness) pursuant to the first paragraph of the Incurrence of indebtedness and issuance of disqualified stock covenant on a pro forma basis taking into account such designation and (ii) such Subsidiary executes a Guarantee pursuant to the terms of the Indenture.

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

Weighted Average Life to Maturity means, when applied to any Indebtedness at any date, the number of years obtained by dividing (i) the sum of the products obtained by multiplying (a) the amount of each then remaining installment, sinking fund, serial maturity or other required payments of principal, including payment at final maturity, in respect thereof, by (b) the number of years (calculated to the nearest one-twelfth) that will elapse between such date and the making of such payment, by (ii) the then outstanding principal amount of such Indebtedness.

Wholly Owned Restricted Subsidiary of any Person means a Restricted Subsidiary of such Person all of the outstanding Capital Stock or other ownership interests of which (other than directors' qualifying shares) shall at the time be owned, directly or indirectly, by such Person or by one or more Wholly Owned Restricted Subsidiaries of such Person.

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Legal matters

Our legal counsel, Vinson & Elkins L.L.P., Houston, Texas, will pass upon certain legal matters in connection with the offered securities. Any underwriters will be advised about issues relating to any offering by their own legal counsel.

Experts

The consolidated financial statements of Range Resources Corporation appearing in its Annual Report on Form 10-K for the year ended December 31, 2011, and the effectiveness of Range Resources Corporation's internal control over financial reporting as of December 31, 2011, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon, included therein, and incorporated herein by reference. Such consolidated financial statements are incorporated herein by reference in reliance upon such reports given on the authority of such firm as experts in accounting and auditing.

Reserve engineers

Certain information incorporated by reference in this prospectus regarding estimated quantities of oil and natural gas reserves occurred by us, the future net revenues from those reserves and their present value is based on estimates of the reserves and present values prepared by or derived from estimates prepared by DeGolyer and MacNaughton and Wright & Company, Inc. The reserve information is incorporated by reference herein in reliance upon the authority of said firms as experts with respect to such reports.

Table of Contents**Part II****Information not required in prospectus****Item 14. Other expenses of issuance and distribution.**

The following table sets forth the estimated expenses payable by Range Resources Corporation (the Company) in connection with the issuance and distribution of the securities covered by this Registration Statement:

Registration Fee	\$ *
Fees and expenses of accountant	170,000
Fees and expenses of legal counsel	175,000
Fees and expenses of trustee and counsel	30,000
Printing and engraving expenses	125,000
 Total	 \$ 500,000

Item 15. Indemnification of directors and officers.

Section 145 of the Delaware General Corporation Law (DGCL) provides that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit or proceeding if he or she acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful. Section 145 further provides that a corporation similarly may indemnify any such person serving in any such capacity who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys fees) actually and reasonably incurred in connection with the defense or settlement of such action or suit if he or she acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Delaware Court of Chancery or such other court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Delaware Court of Chancery or such other court shall deem proper.

The Company's Amended and Restated By-Laws and Restated Certificate of Incorporation, as amended, each provide that the Company will indemnify and hold harmless to the fullest extent authorized by the DGCL each person who was or is made a party or is threatened to be made a party to or is involved in any action, suit or proceeding, whether civil, criminal, administrative, arbitrative or investigative, by reason of the fact that he or she, or a person of whom he or she is the legal representative, is or was a director, officer, employee or agent of the Company or is or was serving at the request of the Company as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to employee benefit plans, whether the basis of such proceeding is alleged action in an official capacity as a

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director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent. Such indemnification continues as to a person who has ceased to be a director, officer, employee or agent and inures to the benefit of his or her heirs, executors and administrators.

In addition, as permitted by the DGCL, the Restated Certificate of Incorporation provides that directors of the Company shall have no personal liability to the Company or its stockholders for monetary damages for breach of fiduciary duty as a director, except (1) for any breach of the director's duty of loyalty to the Company or its stockholders, (2) for acts or omissions not in good faith or which involve intentional misconduct or knowing violation of law, (3) under Section 174 of the DGCL or (4) for any transaction from which a director derived an improper personal benefit.

The preceding discussion of the Company's Amended and Restated Bylaws and Restated Certificate of Incorporation, as amended, and Section 145 of the Delaware General Corporation Law is not intended to be exhaustive and is qualified in its entirety by the reference to the Company's Amended and Restated Bylaws and Restated Certificate of Incorporation, as amended, and Section 145 of the DGCL.

The Company has entered into indemnification agreements with its directors and executive officers, and intends to enter into indemnification agreements with any new directors and executive officers in the future. Pursuant to such agreements, the Company will, to the extent permitted by applicable law, indemnify such persons against all expenses, judgments, fines and penalties incurred in connection with the defense or settlement of any actions brought against them by reason of the fact that they were directors or officers of the Company or assumed certain responsibilities at the direction of the Company. The preceding discussion of the Company's indemnification agreements is not intended to be exhaustive and is qualified in its entirety by reference to such indemnification agreements.

Table of Contents**Item 16. Exhibits**

(a) Exhibits

Exhibit Number	Description
1.1	* Form of Underwriting Agreement
3.1	Restated Certificate of Incorporation of Range Resources Corporation (incorporated by reference to Exhibit 3.1.1 to the Company's Form 10-Q (File No. 001-12209) as filed with the SEC on May 5, 2004), as amended by the Certificate of First Amendment to Restated Certificate of Incorporation of Range Resources Corporation (incorporated by reference to Exhibit 3.1 to the Company's Form 10-Q (File No. 001-12209) as filed with the SEC on July 28, 2005) and the Certificate of Second Amendment to Restated Certificate of Incorporation of Range Resources Corporation (incorporated by reference to the Company's Form 10-Q (File No. 001-12209) as filed with the SEC on July 24, 2008)
3.2	Amended and Restated By-laws of the Company (incorporated by reference to Exhibit 3.2 to the Company's Form 8-K (File No. 001-12209) as filed with the SEC on May 20, 2010)
4.1	** Form of Indenture (includes form of guarantee)
4.2	* Form of Debt Securities
5.1	** Opinion of Vinson & Elkins L.L.P.
12.1	** Computation of Ratio of Earnings to Fixed Charges
23.1	** Consent of Vinson & Elkins L.L.P. (included in their opinion filed as Exhibit 5.1 hereto)
23.2	** Consent of Ernst & Young LLP
23.3	** Consent of DeGolyer and MacNaughton
23.4	** Consent of Wright and Company
24.1	** Powers of Attorney (included on the first signature page of this Registration Statement)
25.1	** Form T-1 Statement of Eligibility of Trustee under the Indenture

* To be filed either by amendment or as an exhibit to a report filed under the Securities Exchange Act of 1934 and incorporated by reference to this registration statement.

** Filed herewith.

Item 17. Undertakings.**The undersigned registrants hereby undertake:**

(a) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

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

(ii) To reflect in the prospectus any facts or events arising after the effective date of 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 SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the Calculation of Registration Fee table in the effective registration statement;

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(iii) 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;

provided, however, that the undertakings set forth in paragraphs (i), (ii) and (iii) above do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the SEC by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in this registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(b) 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.

(c) 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.

(d) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and

(ii) Each prospectus filed by the registrant pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(e) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(i) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

(ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

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(iv) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

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

(g) To file an application for the purpose of determining the eligibility of the trustee under the Subordinated Debt Indenture to act under subsection (a) of Section 310 of the Trust Indenture Act ("Act") in accordance with the rules and regulations prescribed by the Securities and Exchange Commission under Section 305(b)(2) of the Act.

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

Table of Contents**Signatures**

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Fort Worth, State of Texas, on the 24th day of February, 2012.

RANGE RESOURCES CORPORATION

By: /s/ JEFFREY L. VENTURA
 Jeffrey L. Ventura
 Director, President and Chief Executive Officer

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Jeffrey L. Ventura, David P. Poole, Roger S. Manny, Dori A. Ginn and Rodney L. Waller and each of them, his true and lawful attorneys-in-fact and agents, with full power of substitution and reconstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including pre-and post-effective amendments) to this Registration Statement and any additional registration statement pursuant to Rule 462(b) under the Securities Act of 1933, and to file the same with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that each of said attorneys-in-fact and agents or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

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 dates indicated.

Signature	Title	Date
/s/ JEFFREY L. VENTURA	Director, President and	February 24, 2012
Jeffrey L. Ventura	Chief Executive Officer (Principal Executive Officer)	
/s/ ROGER S. MANNY	Executive Vice President and	February 24, 2012
Roger S. Manny	Chief Financial Officer (Principal Financial Officer)	
/s/ DORI A. GINN	Vice President, Controller and	February 24, 2012
Dori A. Ginn	Principal Accounting Officer	
/s/ JOHN H. PINKERTON	Executive Chairman of the Board	February 24, 2012
John H. Pinkerton		
/s/ CHARLES L. BLACKBURN	Director	February 24, 2012
Charles L. Blackburn		

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/s/ ANTHONY V. DUB

Director

February 24, 2012

Anthony V. Dub

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Signature	Title	Date
/s/ ALLEN FINKELSON Allen Finkelson	Director	February 24, 2012
/s/ JAMES M. FUNK James M. Funk	Director	February 24, 2012
/s/ JONATHAN S. LINKER Jonathan S. Linker	Director	February 24, 2012
/s/ KEVIN S. MCCARTHY Kevin S. McCarthy	Director	February 24, 2012

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Pursuant to the requirements of the Securities Act of 1933, the co-registrants certify that they have reasonable grounds to believe that they meet all of the requirements for filing on Form S-3 and have duly caused this Registration Statement to be signed on their behalf by the undersigned, thereunto duly authorized, in the City of Fort Worth, State of Texas, on the 24th day of February, 2012.

AMERICAN ENERGY SYSTEMS, LLC

ENERGY ASSETS OPERATING COMPANY, LLC
 RANGE ENERGY SERVICES COMPANY, LLC
 RANGE OPERATING NEW MEXICO, LLC RANGE
 RESOURCES APPALACHIA, LLC RANGE
 RESOURCES MIDCONTINENT, LLC RANGE
 TEXAS PRODUCTION, LLC

By: /s/ JEFFREY L. VENTURA
 Jeffrey L. Ventura
 President and Chief Executive Officer

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Jeffrey L. Ventura, David P. Poole, Roger S. Manny, Dori A. Ginn and Rodney L. Waller and each of them, his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including pre-and post-effective amendments) to this Registration Statement and any additional registration statement pursuant to Rule 462(b) under the Securities Act of 1933, and to file the same with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that each of said attorneys-in-fact and agents or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

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 dates indicated.

Signature	Title	Date
/s/ JEFFREY L. VENTURA	President, Chief Executive Officer	February 24, 2012
Jeffrey L. Ventura	and Manager (Principal Executive Officer)	
/s/ ROGER S. MANNY	Executive Vice President, Chief Financial Officer and Manager	February 24, 2012
Roger S. Manny	(Principal Financial Officer)	
/s/ DORI A. GINN	Vice President, Controller and	February 24, 2012
Dori A. Ginn	Principal Accounting Officer	
/s/ JOHN H. PINKERTON	Manager	February 24, 2012
John H. Pinkerton		

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Pursuant to the requirements of the Securities Act of 1933, the co-registrants certify that they have reasonable grounds to believe that they meet all of the requirements for filing on Form S-3 and have duly caused this Registration Statement to be signed on their behalf by the undersigned, thereunto duly authorized, in the City of Fort Worth, State of Texas, on the 24th day of February, 2012.

RANGE PRODUCTION COMPANY

RANGE RESOURCES PINE MOUNTAIN, INC.

By: /s/ JEFFREY L. VENTURA
 Jeffrey L. Ventura
 President and Chief Executive Officer

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Jeffrey L. Ventura, David P. Poole, Roger S. Manny, Dori A. Ginn and Rodney L. Waller and each of them, his true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him and in his name, place and stead, in any and all capacities, to sign any and all amendments (including pre-and post-effective amendments) to this Registration Statement and any additional registration statement pursuant to Rule 462(b) under the Securities Act of 1933, and to file the same with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that each of said attorneys-in-fact and agents or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

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 dates indicated.

Signature	Title	Date
/s/ JEFFREY L. VENTURA	President, Chief Executive Officer	February 24, 2012
Jeffrey L. Ventura	and Director (Principal Executive Officer)	
/s/ ROGER S. MANNY	Executive Vice President, Chief Financial Officer and Director	February 24, 2012
Roger S. Manny	(Principal Financial Officer)	
/s/ DORI A. GINN	Vice President, Controller and	February 24, 2012
Dori A. Ginn	Principal Accounting Officer	
/s/ JOHN H. PINKERTON	Director	February 24, 2012
John H. Pinkerton		

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Description

ertificate of Incorporation of Range Resources Corporation (incorporated by reference to Exhibit 3.1 to the Company's Form 10-Q (File No. 001-12209) as filed with

- * To be filed either by amendment or as an exhibit to a report filed under the Securities Exchange Act of 1934 and incorporated by reference to this registration statement.
- ** Filed herewith.