

ZION OIL & GAS INC  
Form S-3/A  
May 25, 2011

As filed with the Securities and Exchange Commission on May 25, 2011

Registration No. 333-174266

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

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AMENDMENT No. 1

TO

FORM S-3  
REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

ZION OIL & GAS, INC.  
(Exact name of registrant as specified in its charter)

Delaware

20-0065053

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification Number)

6510 Abrams Road, Suite 300  
Dallas, Texas 75231  
(214) 221-4610

(Address, including zip code, and telephone number, including area code  
of registrant's principal executive offices)

Richard Rinberg  
Chief Executive Officer  
6510 Abrams Road, Suite 300  
Dallas, Texas 75231  
(214) 221-4610

(Name, address, including zip code, and telephone number, including area code, of agent for service)

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Copies to:  
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Approximate date of commencement of proposed sale to the public: From time to time after the 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 to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.  x

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.  o

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

If this form is a registration statement pursuant to General Instruction 1.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.  o

If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction 1.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.  o

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.

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

CALCULATION OF REGISTRATION FEE

Title of Class of Securities to be Registered (1)	Proposed Maximum Aggregate Offering Price (2)	Amount of Registration Fee(3)
Common Stock, par value \$.01 per share	—	—
Debt Securities	—	—
Warrants	—	—
Units	—	—
Rights	—	—
<b>Total</b>	<b>\$ 150,000,000</b>	<b>\$ 17,415 (4).</b>

(1) There are being registered hereunder such indeterminate number of shares of common stock, such indeterminate principal amount of debt securities, such indeterminate number of warrants to purchase common stock or debt securities, rights to purchase on indeterminate under of securities of Zion Oil & Gas, Inc. and such indeterminate number of units as shall have an aggregate initial offering price not to exceed \$150,000,000. If any debt securities are issued at an original issued discount, then the offering price of such debt securities shall be in such greater principal amount as shall result in an aggregate initial offering price not to exceed \$150,000,000, less the aggregate dollar amount of all securities previously issued hereunder. Any securities registered hereunder may be sold separately or as units with other securities registered hereunder. The proposed maximum initial offering price per unit will be determined, from time to time, by the registrant in connection with the issuance by the registrant

of the securities registered hereunder. The securities registered also include such indeterminate number of shares of common stock and amount of debt securities as may be issued upon conversion of or exchange for debt securities that provide for conversion or exchange, upon exercise of warrants or pursuant to the anti-dilution provisions of any such securities. In addition, pursuant to Rule 416 under the Securities Act, the shares being registered hereunder include such indeterminate number of shares of common stock as may be issuable with respect to the shares being registered hereunder as a result of stock splits, stock dividends or similar transactions.

(2) The proposed maximum aggregate offering price per class of security will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of security pursuant to General Instruction II.D. of Form S-3 under the Securities Act.

(3) Calculated pursuant to Rule 457(o) under the Securities Act of 1933, as amended.

(4) Previously Paid

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

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Subject to Completion, Dated \_\_\_\_\_, 2011

THE INFORMATION IN THIS PROSPECTUS IS NOT COMPLETE AND MAY BE CHANGED. WE MAY NOT SELL THESE SECURITIES OR ACCEPT AN OFFER TO BUY THESE SECURITIES UNTIL THE REGISTRATION STATEMENT FILED WITH THE SECURITIES AND EXCHANGE COMMISSION IS EFFECTIVE. THIS PROSPECTUS IS NOT AN OFFER TO SELL THESE SECURITIES AND IT IS NOT SOLICITING AN OFFER TO BUY THESE SECURITIES IN ANY STATE OR JURISDICTION WHERE THE OFFER OR SALE IS NOT PERMITTED.

PROSPECTUS

\$150,000,000

ZION OIL & GAS, INC.

Common Stock, Debt Securities, Warrants, Units and Rights

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission using a “shelf” registration process. From time to time, we may offer up to \$150,000,000 of any combination of the securities described in this prospectus, either individually or in units.

This prospectus provides a general description of the securities we may offer. Each time we sell securities, we will provide specific terms of the securities offered in a supplement to this prospectus. The prospectus supplement may also add, update or change information contained in this prospectus. You should read this prospectus and the applicable prospectus supplement carefully before you invest in any securities.

Our common stock is quoted on the NASDAQ Global Market under the symbol “ZN”. The last sale price of our common stock on the NASDAQ Global Market on May 24, 2011 was \$5.05. We also have two series of common stock purchase warrants quoted on the NASDAQ Global Market under the symbols “ZNBW” and “ZNBZ”. The applicable prospectus supplement will contain information, where applicable, as to any other listing on NASDAQ Global Market or any securities market or other exchange of the securities, if any, covered by the prospectus supplement.

Investing in our securities involves a high degree of risk. We urge you to carefully consider the risks that we have described on page 10 of this prospectus under the caption “Risk Factors.” We may also include specific risk factors in supplements to this prospectus under the caption “Risk Factors.” This prospectus may not be used to offer or sell our securities unless accompanied by a prospectus supplement.

We will sell these securities directly to investors, through agents designated from time to time or to or through underwriters or dealers. For additional information on the methods of sale, you should refer to the section entitled “Plan of Distribution” in this prospectus. If any underwriters are involved in the sale of any securities with respect to which this prospectus is being delivered, the names of such underwriters and any applicable commissions or discounts will be set forth in a prospectus supplement. The price to the public of such securities and the net proceeds we expect to receive from such sale will also be set forth in a prospectus supplement.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR PASSED UPON THE ADEQUACY OR ACCURACY OF THIS PROSPECTUS. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is \_\_\_\_\_, 2011.

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## ABOUT THIS PROSPECTUS

This prospectus is a part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a “shelf” registration process. Under this shelf registration process, we may sell any combination of the securities described in this prospectus in one or more offerings up to a total dollar amount of \$150,000,000. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities under this shelf registration, we will provide a prospectus supplement that will contain specific information about the terms of that offering. 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 additional information described under the heading “Where You Can Find More Information.”

You should rely only on the information provided or incorporated by reference in this prospectus or any prospectus supplement. 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 supplement to this prospectus. You must not rely upon any information or representation not contained or incorporated by reference in this prospectus or the accompanying prospectus supplement. This prospectus and the accompanying supplement to this prospectus do not constitute an offer to sell or the solicitation of an offer to buy any securities other than the registered securities to which they relate, nor do this prospectus and the accompanying supplement to this prospectus constitute 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 such offer or solicitation in such jurisdiction. You should not assume that the information contained in this prospectus and the accompanying prospectus supplement is accurate on any date subsequent to the date set forth on the front of the document or that any information we have incorporated by reference is correct on any date subsequent to the date of the document incorporated by reference, even though this prospectus and any accompanying prospectus supplement is delivered or securities sold on a later date. In this prospectus and any prospectus supplement, unless otherwise indicated, the terms “Company,” “we,” “our” and “us” refer to Zion Oil & Gas, Inc., a corporation incorporated in the State of Delaware.

**THIS PROSPECTUS MAY NOT BE USED TO OFFER AND SELL SECURITIES UNLESS IT IS ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.**

## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus and the documents included or incorporated by reference in this prospectus contain statements concerning our expectations, beliefs, plans, objectives, goals, strategies, future events or performance and underlying assumptions and other statements that are not historical facts. These statements are “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. You generally can identify our forward-looking statements by the words “anticipate,” “believe,” “budgeted,” “continue,” “could,” “estimate,” “expect,” “forecast,” “goal,” “intend,” “may,” “objective,” “plan,” “potential,” “predict,” “projection,” “scheduled,” “should,” “will” or other similar words. These forward-looking statements include, among others, statements regarding:

- our growth strategies;
- our ability to explore for and develop natural gas and oil resources successfully and economically;
  - local (in Israel) as well as global demand for oil and natural gas;
- our estimates of the timing and number of wells we expect to drill and other exploration activities and planned expenditures;

- changes in our drilling plans and related budgets;
- the quality of our license areas with regard to, among other things, the existence of reserves in economic quantities;
- anticipated trends in our business;
- our future results of operations;
- our liquidity and our ability to raise capital to finance our exploration and development activities;
- our capital expenditure program;
- future market conditions in the oil and gas industry; and
- the impact of governmental regulation.



More specifically, our forward-looking statements include, among others, statements relating to our schedule, business plan, targets, estimates or results of future drilling, including the number, timing and results of wells, the timing and risk involved in drilling follow-up wells, planned expenditures, prospects budgeted and other future capital expenditures, risk profile of oil and gas exploration, acquisition of seismic data (including number, timing and size of projects), planned evaluation of prospects, probability of prospects having oil and natural gas, expected production or reserves, increases in reserves, acreage, working capital requirements, hedging activities, the ability of expected sources of liquidity to implement our business strategy, future hiring, future exploration activity, production rates, all and any other statements regarding future operations, financial results, business plans and cash needs and other statements that are not historical facts.

Such statements involve risks and uncertainties, including, but not limited to, those relating to our dependence on our exploratory drilling activities, the volatility of oil and natural gas prices, the need to replace reserves depleted by production, operating risks of oil and natural gas operations, our dependence on our key personnel, factors that affect our ability to manage our growth and achieve our business strategy, risks relating to our limited operating history, technological changes, our significant capital requirements, the potential impact of government regulations, adverse regulatory determinations, litigation, competition, the uncertainty of reserve information and future net revenue estimates, property acquisition risks, industry partner issues, availability of equipment, weather and other factors detailed herein and in our other filings with the SEC.

We have based our forward-looking statements on our management's beliefs and assumptions based on information available to our management at the time the statements are made. We caution you that assumptions, beliefs, expectations, intentions and projections about future events may and often do vary materially from actual results. Therefore, we cannot assure you that actual results will not differ materially from those expressed or implied by our forward-looking statements.

Some of the factors that could cause actual results to differ from those expressed or implied in forward-looking statements are described under "Risk Factors" in this prospectus and described under "Risk Factors" and elsewhere in our Annual Report on Form 10-K for the fiscal year ended December 31, 2010 and in our other periodic reports filed with the SEC. Should one or more of these risks or uncertainties materialize, or should underlying assumptions prove incorrect, actual outcomes may vary materially from those indicated. All subsequent written and oral forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by reference to these risks and uncertainties. You should not place undue reliance on our forward-looking statements. Each forward-looking statement speaks only as of the date of the particular statement, and we undertake no duty to update any forward-looking statement.

## SUMMARY

The following is only a summary, and does not contain all of the information that you need to consider in making your investment decision. We urge you to read this entire prospectus, including the more detailed financial statements, notes to the financial statements and other information incorporated by reference into this prospectus under "Where You Can Find More Information" and "Incorporation of Certain Information by Reference" from our other filings with the SEC, as well as any prospectus supplement applicable to an offering of the securities registered pursuant to the registration statement of which this prospectus forms a part. Investing in our securities involves risks. Therefore, please carefully consider the information provided under the heading "Risk Factors" beginning on page 10.

### Our Company

Zion Oil and Gas, Inc., a Delaware corporation, is an initial stage oil and gas exploration company with a history of over 10 years of oil and gas exploration in Israel. We have no revenues or operating income and we are classified as a

"development stage" company. We were incorporated in Florida on April 6, 2000 and reincorporated in Delaware on July 9, 2003. We completed our initial public offering in January 2007. Our common stock currently trades on the NASDAQ Global Market under the symbol "ZN" and our warrants trade on such market under the symbols "ZNWAW" and "ZNWAZ".

We currently hold two petroleum exploration licenses, named the Joseph License and the Asher-Menashe License, covering approximately 162,100 acres of land onshore Northern Israel. In addition, as discussed below, in April 2011 we were advised by the Petroleum Commissioner of the State of Israel (the "Commissioner") that one of our license applications, the Jordan Valley License Application, was awarded.

In February 2011, we submitted to the Commissioner applications for two exploration licenses and an application for a preliminary exploration permit. One of the license applications and the application for the preliminary exploration permit cover substantially all of the area covered by our previous Issachar-Zebulun Permit, which expired on February 23, 2011. We named one license application (with respect to part of the previous Issachar-Zebulun Permit) the Jordan Valley License Application and the preliminary exploration permit (applied for with respect to substantially the balance of such area) the Zebulun Permit Application. We named the other license application the Dead Sea License Application as it relates to areas within the vicinity of the Dead Sea.

On April 13, 2011, we were advised by the Commissioner that the Jordan Valley License Application had been granted. We anticipate that the formal license documentation, which will include the specific license area and license terms, will be forthcoming shortly. We anticipate that the Zebulun Permit Application and Dead Sea License Application will be considered in mid-Summer to Fall of 2011. No assurance can be provided that either the Dead Sea License Application or the Zebulun Permit Application will ultimately be granted.

The Asher-Menashe License is scheduled to expire on June 9, 2011. The conditions to the license extension included the requirement that we identify a new drilling prospect by April 1, 2011 and that we enter into a drilling contract with respect to such prospect by May 1, 2011. We have not satisfied these conditions due to, in part, the need to undertake further work on our currently temporarily suspended well in this license area to determine whether this well can be successfully re-drilled. We do not anticipate that these determinations will be made on or before June 9, 2011. While we do not have a basis to believe that the Commissioner will suspend the current license while we have a current well on the site, no assurance can be provided that the Commissioner will not withdraw the license on or after the scheduled expiration date or that an extension will ultimately be granted.

To date, we have drilled two exploratory wells and are currently drilling our third exploratory well in the Joseph License area, and have partly completed drilling one exploratory well in the Asher-Menashe License area.

The first exploratory well, named the Ma'anit #1 well, was drilled, in the Joseph License area, to a depth of 15,842 feet (4,829 meters) to Triassic-age formations with encouraging but inconclusive results. However, notwithstanding these results, due to the mechanical condition of the well-bore, we determined that the well was incapable of producing oil and/or gas in commercial quantities and, consequently, in June 2007, we abandoned the well.

In 2009, we drilled an additional well (the Ma'anit-Rehoboth #2 well), 'directionally' to a depth of 17,913 feet (5,460 meters). The purpose of the Ma'anit-Rehoboth #2 well was both to appraise the apparent findings of the Ma'anit #1 in the Triassic-age formations (at a depth of between approximately 12,000 and 15,400 feet) and to test the deeper Permian-age horizons at a depth of approximately 16,000 to 18,000 feet. The well penetrated a number of geologic formations that were preliminarily deemed to have hydrocarbon potential and, during well operations, a small quantity of crude oil was retrieved. However, in April 2010, following the completion of testing procedures, we determined that commercial quantities of hydrocarbons were not present in the Ma'anit-Rehoboth #2 well and, accordingly, we suspended drilling operations in that well. In connection with this decision, we recognized a non-cash impairment charge to our unproved oil and gas properties for the quarter ended June 30, 2010.

As the Ma'anit-Rehoboth #2 well did not reach the Permian-age geological formation beneath the Joseph License area, we decided to drill a subsequent well, the Ma'anit-Joseph #3 well, at a location near the Ma'anit-Rehoboth #2 well (in the Joseph License Area). The drilling of the Ma'anit-Joseph #3 well commenced in August 2010 and was planned to test the Permian-age geological formation. Drilling operations on this well were originally expected to last approximately six months. The Ma'anit-Joseph #3 well had initially reached a depth of approximately 16,578 feet (5,053 meters). However, having encountered mechanical/technical difficulties, we are currently engaged in a sidetrack operation and as of May 13, 2011, the well is at a depth of 15,637 feet (4,766 meters). The Company's planned ultimate target depth for the Ma'anit-Joseph #3 well is approximately 19,350 feet (5,900 meters).

To date, we have partly completed one exploratory well in the Asher-Menashe License Area. In October 2009, we commenced drilling the Elijah #3 well, within the Asher-Menashe License area, toward the Triassic geological formation, which we estimated was below approximately 10,000 feet (3,048 meters). As of January 15, 2010, we had drilled to a depth of 10,938 feet (3,334 meters). In early February 2010, we temporarily suspended drilling operations in the well following our unsuccessful efforts to retrieve a stuck pipe, pending further analysis of the situation.

Approximately 15 miles (25 kilometers) of 2-D seismic data was acquired in June 2010 in the Asher-Menashe License area and was processed by a geophysical consultant in the United States and integrated into our geological assessment by our geologists. Analysis of the acquired data helped us to refine the geologic model of the area and indicated that the Asher volcanics section, wherein the drilling tools were stuck, is likely substantially greater (i.e., thicker and deeper) than originally predicted by the older, original data. Additional work is needed to determine if the Elijah #3 well can be successfully re-drilled through this unexpectedly more extensive volcanic section. As our available drilling resources are currently dedicated exclusively to drilling the Ma'anit-Joseph #3 well (in the Joseph License) to

the Permian-age target depth, our geologists and engineering experts will not be in a position to address the future of the Elijah #3 well until after we have completed drilling the Ma'anit-Joseph #3 well and completed any testing or other post drilling procedures that we may deem necessary or desirable once the Permian-age target is reached in such well.

We hold 100% of the working interest in our licenses, which means we are responsible for 100% of the costs of exploration and, if established, production. Our net revenue interest is 81.5%, which means we would receive 81.5% of the gross proceeds from the sale of oil and gas from license areas upon their conversion to production leases, if there is any commercial production. The 18.5% to which we are not entitled comprises (i) a 12.5% royalty reserved by the State of Israel and (ii) a overriding royalty interest (or equivalent net operating profits interest) of 6% of gross revenue from production given over to two charitable foundations. No royalty would be payable to any landowner with respect to production from our license areas as the State of Israel owns all the mineral rights. In addition, we may establish a key employee incentive plan that may receive an overriding royalty interest (or equivalent net operating profits interest) of up to 1.5%. In that event, our effective net revenue interest would be 80%. Effective March 2011, a special levy on income from oil and gas production was enacted in Israel. The new law provides that royalties on hydrocarbon discoveries will remain at 12.5%, while taxation of profits will begin only after the developers have reached payback on their investment plus a return. The levy will be 20% after a payback of 150% on the investment, and will rise gradually, reaching 50% after a return of 230% on the investment. The Israeli government also repealed the percentage depletion deduction and made certain changes to the rules for deducting tangible and intangible development. These rules will only become germane to us when, and if, we commence production of oil and/or gas.

Our ability to generate future revenues and operating cash flow will depend on the successful exploration and exploitation of our current and any future petroleum rights or the acquisition of oil and/or gas producing properties, the volume and timing of our production, as well as commodity prices for oil and gas. Such pricing factors are largely beyond our control, and may result in fluctuations in our earnings.

Our company's vision, as exemplified by its Founder and Chairman, John Brown, of finding oil and/or natural gas in Israel, is Biblically inspired. The vision is based, in part, on Biblical references alluding to the presence of oil and/or natural gas in territories within the State of Israel that were formerly within certain ancient Biblical tribal areas. While John Brown provides the broad vision and goals for Zion, the actions taken by the Zion management as it actively explores for oil and gas in Israel are based on modern science and good business practice. Zion's oil and gas exploration activities are supported by appropriate geological and other science based studies and surveys typically carried out by companies engaged in oil and gas exploration activities.

### Financing Activities

To date, we have funded our operations through the issuance of our securities. Our recent financings are discussed below.

Between October 24, 2008 and January 9, 2009, we raised from a follow-on public offering gross proceeds of \$6,663,000 from the sale of units of our securities, of which \$240,000 was for debt conversion. Each unit offered in the follow-on offering consisted of (i) one share of common stock, par value \$.01 per share and (ii) one warrant to purchase one share of common stock at a per share exercise price equal to \$7.00.

In June 2009, we raised gross proceeds of \$21,000,000 from a rights offering to common stockholders of up to 4.2 million shares of our common stock. The rights-offering was fully subscribed, resulting in our distribution of all of the 4.2 million shares that were offered.

In November 2009, we raised an additional \$18,000,000 from a rights offering to common stockholders of up to 3.6 million shares of our common stock. The rights-offering was fully subscribed, resulting in our distribution of all of the 3.6 million shares that were offered.

In July 2010, utilizing a shelf registration statement, we raised approximately \$12,356,000 from rights offering to common stockholders of up to 10 million shares of our common stock. The rights offering resulted in our distribution of 2,471,117 shares.

In December 2010, utilizing the shelf registration statement, we raised an approximately \$18,214,000 from a fourth rights offering to common stockholders of up to 3,820,391 shares of our common stock and warrants to purchase an additional 3,820,391 shares of our common stock. The rights-offering was subscribed for a total of 3,642,821 shares of our common stock and warrants to purchase an additional 3,642,821 shares of our common stock.

Between January 1, 2011 and May 4, 2011, we raised approximately \$408,700 from the exercise of our publicly traded warrants trading under the symbol ZNVAW that we previously issued to investors in connection with our follow-on-public offering which we completed in January 2009. We reduced the exercise price of these warrants, for a limited time period extending from January 3, 2011 through March 7, 2011, to \$4 (from an original per share exercise price of \$7). In addition, between January 1, 2011 to May 4, 2011, we raised an additional \$431,200 from the exercise of the \$4 warrants that we issued in December 2010 in connection with our last completed rights offering that trade under the symbol ZNWAZ.

### The Securities We May Offer

We may offer shares of our common stock, various series of debt securities and warrants to purchase any of such securities and rights to purchase any of the foregoing securities, either individually or in units, with a total value of up to \$150,000,000 from time to time under this prospectus at prices and on terms to be determined by market conditions at the time of offering. This prospectus provides you with a general description of the securities we may offer. Each time we offer a type or series of securities, we will provide a prospectus supplement that will describe the specific amounts, prices and other important terms of the securities, including, to the extent applicable:

- aggregate principal amount or aggregate offering price;
- maturity, if applicable;
- original issue discount, if any;
- rates and times of payment of interest, if any;
- redemption, conversion, exchange or sinking fund terms, if any;
- conversion or exchange prices or rates, if any, and, if applicable, any provisions for changes to or adjustments in the conversion or exchange prices or rates and in the securities or other property receivable upon conversion or exchange;

- ranking;
- restrictive covenants, if any;
- voting or other rights, if any; and
- important federal income tax considerations.

The prospectus supplement also may add, update or change information contained in this prospectus or in documents we have incorporated by reference into this prospectus. However, no prospectus supplement will offer a security that is not registered and described in this prospectus at the time of the effectiveness of the registration statement of which this prospectus is a part.

We may sell the securities directly to or through underwriters, dealers or agents. We, and our underwriters or agents, reserve the right to accept or reject all or part of any proposed purchase of securities. If we do offer securities through underwriters or agents, we will include in the applicable prospectus supplement:

- the names of those underwriters or agents;
- applicable fees, discounts and commissions to be paid to them;
- details regarding over-allotment options, if any; and
- the net proceeds to us.

The following is a summary of the securities we may offer with this prospectus.

**Common Stock.** We currently have authorized 50,000,000 shares of common stock, par value \$0.01 per share. We may offer shares of our common stock either alone or underlying other registered securities convertible into or exercisable for our common stock from time to time. Holders of our common stock are entitled to one vote per share for the election of directors and on all other matters that require stockholder approval. In the event of our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in the assets remaining after payment of liabilities. Currently, we do not pay any dividends. Our common stock does not carry any preemptive rights enabling a holder to subscribe for, or receive shares of, any class of our common stock or any other securities convertible into shares of any class of our common stock, or any redemption rights. On April 13, 2011, our Board of Directors approved, subject to the ratification of our stockholders, a resolution to increase our authorized share capital to 100,000,000 shares. The resolution is to be considered and voted on by the Company's stockholders at the 2011 annual meeting of the stockholders scheduled to be held on June 21, 2011.

**Debt Securities.** We may offer debt securities from time to time, in one or more series, as either senior or subordinated debt or as senior or subordinated convertible debt. The senior debt securities will rank equally with any other unsubordinated debt that we may have and may be secured or unsecured. The subordinated debt securities will be subordinate and junior in right of payment, to the extent and in the manner described in the instrument governing the debt, to all or some portion of our indebtedness. Any convertible debt securities that we issue will be convertible into or exchangeable for our common stock or other securities of ours. Conversion may be mandatory or at your option and would be at prescribed conversion rates.

The debt securities will be issued under one or more documents called indentures, which are contracts between us and a trustee for the holders of the debt securities. In this prospectus, we have summarized certain general and standard

features of the debt securities we may issue. We urge you, however, to read the prospectus supplements related to the series of debt securities being offered, as well as the complete indentures that contain the terms of the debt securities. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference into such registration statement from a Current Report on Form 8-K that we file with the SEC, the forms of indentures and any supplemental indentures and the forms of debt securities containing the terms of debt securities we are offering before the issuance of any series of debt pursuant to the Registration Statement of which this Prospectus forms a part.

**Warrants.** We may offer warrants for the purchase of our common stock, and/or debt securities in one or more series, from time to time. We may issue warrants independently or together with common stock, and/or debt securities, and the warrants may be attached to or separate from those securities.

The warrants will be evidenced by warrant certificates issued under one or more warrant agreements, which are contracts between us and an agent for the holders of the warrants. In this prospectus, we have summarized certain general and standard features of the warrants. We urge you, however, to read the prospectus supplements related to the series of warrants being offered, as well as the warrant agreements and warrant certificates that contain the terms of the warrants. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference into such registration statement from a Current Report on Form 8-K that we file with the SEC, the form of warrant agreements and form of warrant certificates relating to warrants for the purchase of common stock and debt securities we are offering before the issuance of any such warrants pursuant to the Registration Statement of which this Prospectus forms a part.



Units. We may offer units consisting of common stock, debt securities and/or warrants to purchase any of such securities in one or more series. In this prospectus, we have summarized certain general and standard features of the units. We urge you, however, to read the prospectus supplements related to the series of units being offered, as well as the unit agreements that contain the terms of the units. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a Current Report on Form 8-K that we file with the SEC, the form of unit agreement and any supplemental agreements that describe the terms of the series of units we are offering before the issuance of the related series of units pursuant to the Registration Statement of which this Prospectus forms a part.

We will evidence each series of units by unit certificates that we will issue under a separate agreement. We will enter into the unit agreements with a unit agent. Each unit agent will be a bank or trust company that we select. We will indicate the name and address of the unit agent in the applicable prospectus supplement relating to a particular series of units.

Rights. We may issue rights to purchase common stock or debt securities or warrants or any combination of the above securities of our company. We may issue rights independently or together with other securities. Rights sold with other securities as a unit may be attached to or separate from the other securities and may be (but shall not be required to be) publicly-listed securities. The rights may or may not be transferable by the persons purchasing or receiving the rights.

Each series of rights will be issued under a separate rights agent agreement to be entered into between us and one or more banks, trust companies or other financial institutions, as rights agent, that we will name in the applicable prospectus supplement. In this prospectus, we have summarized certain general and standard features of the rights. We urge you, however, to read the prospectus supplements related to the rights offering, as well as the relevant subscription documents. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference into such registration statement from a Current Report on Form 8-K that we file with the SEC, the form of subscription agreements and form of subscription certificates relating to rights for the purchase of common stock, debt securities and warrants we may then be offering before the issuance of any such rights or underlying securities pursuant to the Registration Statement of which this Prospectus forms a part.

**THIS PROSPECTUS MAY NOT BE USED TO OFFER OR SELL ANY SECURITIES UNLESS ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.**

## RISK FACTORS

Before making an investment decision, you should carefully consider the risks described under "Risks Related to our Business" below and in the applicable prospectus supplement, together with all of the other information appearing in this prospectus or incorporated by reference into this prospectus and any applicable prospectus supplement, in light of your particular investment objectives and financial circumstances. Our business, financial condition or results of operations could be materially adversely affected by any of these risks. The trading price of our securities could decline due to any of these risk factors, and you may lose all or any part of your investment.

### Risks Related to our Business

We are an oil and gas exploration company with no current source of revenue. Our ability to continue in business depends upon our continued ability to obtain significant financing from external sources and the success of our exploration efforts, none of which can be assured.

We were incorporated in April 2000 and are still an oil and gas exploration company with no established production. Our operations are subject to all of the risks inherent in exploration stage companies with no revenues or operating income. Our potential for success must be considered in light of the problems, expenses, difficulties, complications and delays frequently encountered in connection with a new business, especially the oil and gas exploration business, and in particular the deep, wildcat wells in which we are engaged in Israel. We cannot warrant or provide any assurance that our business objectives will be accomplished.

We have historically depended entirely upon capital infusions from the issuance of equity securities to provide the cash needed to fund our operations. Between June 2009 and December 2010, we raised approximately \$70 million in the public equity market from rights offerings of our common stock and warrants to our stockholders. However, we cannot assure you that we will be able to continue to raise funds in the public (or private) equity markets. Our ability to continue in business depends upon our continued ability to obtain significant financing from external sources and the success of our exploration efforts. Any reduction in our ability to raise equity capital in the future would force us to reallocate funds from other planned uses and could have a significant negative effect on our business plans and operations, including our ability to continue our current exploration activities. All of our audited financial statements since inception have contained a statement by the auditors that raises substantial doubt about us being able to continue as a "going concern" unless we are able to raise additional capital.

We will require substantial additional funds to drill additional wells and to realize our business plan.

Our planned work program is expensive. We believe that our current cash resources are sufficient to allow us to reach the target depth of the exploratory well that we are currently drilling (the Ma'anit-Joseph #3 well), conduct any production testing that may be required thereon, undertake additional non-drilling exploratory activities in our current license areas and in the applied for license and permit areas and otherwise meet our drilling plans through September 30, 2011. In addition, as of May 6, 2011, we have outstanding publicly traded warrants exercisable through December 31, 2012 for potential cash proceeds payable to us of approximately \$17.7 million. Unless we receive significant proceeds during the second quarter of 2011 from the exercise of these publicly traded warrants (of which no assurance can be provided), we anticipate needing to raise substantial additional capital to maintain operations beyond September 30, 2011 and to conduct future exploratory and new well drilling projects. We have no commitments for any financing and no assurance can be provided that we will be able to raise funds when needed. We estimate that, when we are not actively drilling a well, our monthly expenditure is approximately \$500,000 per month. However, when we are engaged in active drilling operations, as we currently are with Ma'anit Joseph #3 well, we estimate that there is an additional cost of approximately \$83,000 per day (equivalent to approximately \$2,500,000 per month). If there is turmoil in the credit and equity markets, then our ability to raise funds may be significant and adversely

affected.

Additional financing could cause your relative interest in our assets and potential earnings to be significantly diluted (unless you participated in such financings). Even if we have exploration success, we may not be able to generate sufficient revenues to offset the cost of dry holes and general and administrative expenses.

We may not have a rig at our disposal following the completion of our currently drilled well and, unless we acquire control of a rig and/or make other appropriate arrangements, we may not be able to continue with our future drilling plans.

We anticipate that we will have reached our target drilling depth on the Ma'anit-Joseph #3 well by late June 2011, assuming we do not encounter any additional technical difficulties. Depending on a number of factors, including the results of the Ma'anit-Joseph #3 well, the decision to be taken as to whether to re-enter the Elijah #3 well and the identification of additional appropriate drilling prospects in these license areas, the drilling rig currently at our disposal may be moved out of Israel. Unless we reach an understanding with the current operators of this rig or identify and obtain access to an alternative rig, of which no assurance can be provided, we may not be able to continue with our drilling plans without substantial delay. Any delay in our drilling timetables can have a material adverse effect on the implementation of our business plan.

A dispute within the affiliated entities which own and manage the deep-drilling capacity rig that we have been using in our drilling program may result in the disruption of our drilling program and may potentially jeopardize our drilling operations and prospects.

The deep-drilling capacity rig that we have been using since September 2009 in our drilling program was the subject of a drilling agreement entered into in September 2008 (the "Drilling Contract") between us and Aladdin Middle East Ltd. ("AME"). Through AME, the rig arrived in Israel and cleared customs in April 2009 and AME provided the drilling crew to operate the rig in Israel. The drilling rig and crew was used to drill the Ma'anit-Rehoboth #2 well, the Elijah #3 well and is currently being used to drill the Ma'anit-Joseph #3 well.

AME is part of a group of privately owned affiliated entities that are controlled by a Turkish based family. An internal dispute developed between different family members and these entities. We were advised by Guynay Yildizi Petrol Uretim Sondaj Mut, ve Tic A.S. ("GYP"), an affiliated entity of AME, that GYP is in fact the owner of the rig we have been using in our drilling program and that AME's rights to the rig, pursuant to which it acted as operator, terminated as of December 31, 2010 upon the termination of lease between AME and GYP. GYP claims on its web site to be one of the leading oil and gas companies in Turkey involved in exploration, development and production of oil as well as running drilling and oil field services. GYP demanded that we make the payments called for in the drilling contract between us and AME directly to GYP based on representations by GYP that GYP was in control of the mentioned rig and all crew and operations at the Ma'anit-Joseph #3 well.

After contacting AME and GYP, we determined that it is in the best interests of our company that we honor GYP's request and remit the payments payable under the drilling contract between us and AME directly to GYP. In April 2011, we advised AME of our decision. We obtained an indemnity from GYP with respect to any damages and costs resulting from such payments to GYP, including any disruption of our drilling program. GYP also agreed to assume all rights and obligations, including those accrued, of AME in the Drilling Contract. On April 25, 2011, AME demanded that we retract our decision and that failing such retraction, AME will avail itself of recourse to all rights at its disposal, including legal process. There has been subsequent communication between us and AME wherein AME has repeated its threat of legal action.

Our management's primary objective has been and continues to be to avoid any disruption to our drilling program, including the completion of the Ma'anit-Joseph #3 well. While we will continue to take all efforts to avoid any disruption to our current drilling program and to protect our interest under all developments, no assurance can be provided that the internal dispute affecting the owners and operators of the drilling rig we use will not result in the disruption of our drilling activities. The dispute may also make it more difficult for us to utilize the rig for drilling any wells subsequent to the Ma'anit Joseph #3 well. If our drilling operations are disrupted and we are not able to obtain a suitable deep-drilling capacity rig, of which no assurance can be provided, then our drilling operations and prospects may be jeopardized.

We are not currently in full compliance with the terms of the one of our licenses which may result in the loss or forfeiture of such license. The loss or forfeiture of such license may have an adverse effect on our business and prospects.

We currently hold two petroleum exploration licenses, the Joseph License and the Asher-Menashe License, covering approximately 162,100 acres onshore in the State of Israel between Netanya in the south and Haifa in the north. In April 2011, we were advised that our application for a license in the Jordan Valley region was awarded; we anticipate receiving shortly the formal license documentation which will include the specific license area designation as well as the license conditions.

Under the terms of the Asher-Menashe License, as extended, we were required, among other things, to identify a new drilling prospect by April 1, 2011 and sign, by May 1, 2011, a drilling contract to drill such prospect to the Permian-age geological layer. As discussed above, based on the processing, interpretation and analysis of the 2-D seismic data in the Elijah #3 project area (in the Asher-Menashe License Area), we determined that the volcanics in the Asher-Menashe License area are substantially greater (i.e., thicker and deeper) than originally estimated. Accordingly, further engineering work is needed to determine if the Elijah #3 well can be successfully re-drilled (or should be) through this dense volcanic formation or even whether we can identify a viable drilling prospect within the Asher-Menashe License area. Currently, and since August 2010, the drilling rig available to us and all of our accompanying available drilling equipment and resources have been exclusively dedicated to reaching the Permian-age target in the Ma'anit-Joseph #3 well (in the Joseph License Area), which we expect to reach in late June 2011, assuming we do not encounter any further technical difficulties. Following the completion of the drilling of the Ma'anit-Joseph #3 well, the analysis of the well and the completion of any testing procedures that we may then deem necessary or desirable (in light of the results of our analysis), we anticipate being in a position to take the appropriate decision as to our next step in the Asher-Menashe License area.

For the reasons noted above, we have not identified a new drilling prospect in the Asher-Menashe License area by the required date of April 1, 2011, the result of which is that we are not in full compliance with the terms of the Asher-Menashe License. In fact, the results of the Ma'anit Joseph #3 well may be determinative as to whether we will re-enter the Elijah #3 well and may inform any subsequent decision as to the identity and location of a new drilling prospect, if any, in the Asher-Menashe License area. Our partial non-compliance with the license terms could result in the loss or forfeiture of the Asher-Menashe License and may jeopardize our obtaining any subsequent rights that we may want to have in such license area. Any such development may have an adverse material effect on our business and prospects.

Depending on the results of our current exploratory well, the Ma'anit-Joseph #3 well, we may elect to surrender some or all of the Joseph License area. We cannot, at this time, assess the effects, if any, that the loss or forfeiture of such license may have on our business or prospects.

Our work program calls for the drilling of the Ma'anit-Joseph #3 well to a depth of approximately 19,357 feet (5,900 meters) on the Joseph License. We anticipate reaching the Permian-age target depth in late June 2011, assuming that we do not encounter any further technical difficulties. We will then select the intervals (if any) that appear to be hydrocarbon bearing and carry out testing procedures.

If we ultimately determine that the Ma'anit-Joseph #3 well does not contain any commercial quantity of hydrocarbons, we will need to decide on our subsequent activity in the Joseph License area. We may, based on these results and other factors, determine to surrender the Joseph License and/or request a new permit for certain of the acreage currently subject to the license so that we can undertake further geologic studies (but not drilling) in such part of the current license area that our geologists conclude contains the greatest potential for hydrocarbons. Thus, subsequent developments may lead us to surrender or abandon the Joseph License and also surrender, forfeit or lose the Asher-Menashe License. The Dead Sea License Application as well as the Zebulun Permit Application which we submitted to the Petroleum Commissioner will not be considered until Mid-Summer to late Fall of 2011 and no assurance can be provided that we will be awarded all (or any part) of these applications. The loss of our exploration rights, even on a temporary basis, may have a material adverse effect on our business and prospects.

The failure to obtain extensions of Joseph License would have a material adverse effect on our business and prospects.

The Joseph License had an initial three-year term which commenced on October 11, 2007 and ran through October 10, 2010. It was extended by one year to October 10, 2011 and may be extended for an additional three years as provided by the Petroleum Law. We are currently drilling the M'anit-Joseph #3 well in the Joseph License area. Once we reach the target depth, which we anticipate will be in late June 2011, subject to the results and our determinations we intend to apply for an extension to the Joseph License. While we are not aware of any reason that may prevent the granting of future extensions, no assurance can be given that such extension will be forthcoming. The Petroleum Commissioner's refusal to extend, at our request, the Joseph License, or even a delay in such extension, can have a material adverse effect on our business and prospects.

We rely on independent experts and technical or operational service providers over whom we may have limited control.

The success of our oil and gas exploration efforts is dependent upon the efforts of various third parties that we do not control. These third parties provide critical engineering, geological, geophysical and other scientific analytical services, including 2-D seismic imaging technology to explore for and develop oil and gas prospects. Given our small size and limited resources, we do not have all the required expertise on staff. As a result, we rely upon various companies and other third persons to assist us in identifying desirable hydrocarbon prospects to acquire and to provide us with technical assistance and services. In addition, we rely upon the owners and operators of drilling rigs and related equipment. The drilling rig and much of its crew which we are currently using to drill the Ma'anit-Joseph #3 well and which we used to drill most of our previous exploratory wells is operated by GYP, a subsidiary company of the Sayer Group.

Although we have developed relationships with GYP and the Sayer Group and with a number of other third-party service providers, we cannot provide assurance that we will be able to continue to rely on such persons. If any of these relationships with third-party service providers are terminated or are unavailable on commercially acceptable terms, we may not be able to execute our business plan. Our limited control over the activities and business practices of these third parties, any inability on our part to maintain satisfactory commercial relationships with them, their limited availability or their failure to provide quality services could materially and adversely affect our business, results of operations and financial condition.

We typically commence exploration drilling operations without undertaking extensive analytical testing thereby potentially increasing the risk (and associated costs) of drilling a non-producing well.

Larger oil and gas exploration companies typically conduct extensive analytical pre drilling testing. These include 3-D seismic imaging, the drilling of an expendable "pilot" well or "stratigraphic test" to collect data (logs, cores, fluid samples, pressure data) to determine if drilling a well capable of producing oil or gas well (full completion with casing and well

testing) is justified. The use of pilot or stratigraphic tests is often used in areas where there is little or no offset well data, like Israel, where our exploration license areas are located. While 3-D seismic imaging data is more useful than 2-D seismic data in identifying potential new drilling prospects, its acquisition and processing costs are many multiples greater than that for 2-D data, and GII, our primary provider of geophysical data, has limited ability to acquire and process onshore 3-D data. In addition to using 2-D seismic technology prior to drilling, we have historically also utilized gravity and magnetic data, built cross section maps from offset wells and utilized geophysical analysis from similar geologic targets. We believe that the additional months, delays and associated costs associated with more extensive pre-drilling testing typically undertaken by larger oil and gas exploration companies is not necessarily justified when drilling vertical exploration wells (as we have historically been doing). Nonetheless, the absence of more extensive pre-drilling testing may potentially increase the risk of drilling a non-producing well, which would in turn result in increased costs and expenses. Additionally, Zion is typically engaged in drilling very deep onshore wildcat wells in Israel where only approximately 500 total wells have ever been drilled, the vast majority of which are relatively substantially shallower. As such, exploration risks are inherently very substantial.

A substantial and extended decline in oil or natural gas prices could adversely impact our future rate of growth and the carrying value of our unproved oil & gas assets.

Prices for oil and natural gas fluctuate widely. Fluctuations in the prices of oil and natural gas will affect many aspects of our business, including our ability to attract capital to finance our operations, our cost of capital, and the value of our unproved oil and natural gas properties. Prices for oil and natural gas may fluctuate widely in response to relatively minor changes in the supply of and demand for oil and natural gas, market uncertainty and a wide variety of additional factors (such as the current political turmoil in the Middle East) that are beyond our control, such as the domestic and foreign supply of oil and natural gas, the ability of members of the Organization of Petroleum Exporting Countries to agree to and maintain oil price and production controls, technological advances affecting energy consumption, and domestic and foreign governmental regulations. Significant and extended reductions in oil and natural gas prices could require us to reduce our capital expenditures and impair the carrying value of our assets.

If we are successful in finding commercial quantities of oil and/or gas, our revenues, operating results, financial condition and ability to borrow funds or obtain additional capital will depend substantially on prevailing prices for oil and natural gas. Declines in oil and gas prices may materially adversely affect our financial condition, liquidity, ability to obtain financing and operating results. Lower oil and gas prices also may reduce the amount of oil and gas that we could produce economically.

Historically, oil and gas prices and markets have been volatile, with prices fluctuating widely, and they are likely to continue to be volatile, making it impossible to predict with any certainty the future prices of oil and gas.

We may continue to recognize substantial write-downs with respect to well impairment costs.

We account for our oil and gas property costs using the full-cost method of accounting for oil and gas properties. Accordingly, all costs associated with acquisition, exploration and development of oil and gas reserves, including directly related overhead costs, are capitalized. We record an investment impairment charge when we believe an investment has experienced a decline in value that is other than temporary.

We drilled the Ma'anit-Rehoboth #2 well to a depth of 17,913 feet (5,460 meters). Our testing procedures conclusively determined in April 2010 that the well was currently incapable of producing oil and/or gas in commercial quantities, so we temporarily suspended operations on the well and have recorded a non-cash impairment charge of \$22,022,000 to our unproved oil and gas properties for the quarter ending June 30, 2010.

As of January 2010, we drilled the Elijah #3 well to a depth of 10,938 feet (3,334 meters), however, as certain drill pipe became stuck in the well, the well was temporarily suspended. In June 2010, we acquired approximately 20 miles (32 kilometers) of additional field seismic data to help us to resolve certain questions regarding the geology of the area surrounding the Elijah #3 well. The Elijah #3 well remains temporarily suspended. We currently anticipate making the determination relating to the Elijah #3 well after we complete drilling the Ma'anit Joseph #3 well to the target depth, which we expect to reach in late June 2011, assuming we do not encounter additional technical difficulties. The determination relating to the Elijah #3 well will partly depend on the results from drilling the Ma'anit-Joseph #3 well and may require us to abandon the Elijah #3 well or lead us to restart operations on it.

Abandonment of properties is accounted for as adjustments to capitalized costs. The net capitalized costs are subject to a "ceiling test," which limits such costs to the aggregate of the estimated present value of future net revenues from proved reserves discounted at ten percent based on current economic and operating conditions, plus the lower of cost or fair market value of unproved properties. The recoverability of amounts capitalized for oil and gas properties is dependent upon the identification of economically recoverable reserves, together with obtaining the necessary financing to exploit such reserves and the achievement of profitable operations.

We review our unproved oil and gas properties periodically to determine whether they have been impaired. An impairment allowance is provided on an unproved property when we determine that the property will not be developed. Any impairment charge incurred is recorded in accumulated depletion, impairment and amortization to reduce our recorded basis in the asset.

The failure to obtain the approval of applications submitted for new exploration licenses and exploration permits would have a material adverse effect on our business and prospects

On February 17, 2011, we applied for a new license and permit covering most of the territory under our recently expired Issachar-Zebulun Permit, which we have called the Jordan Valley License Application and the Zebulun Permit Application. On or about the same time, we also filed an application for a license on areas in the vicinity of the



Dead Sea, which we have called the Dead Sea License Application. In April 2011, we were advised that we have been granted the Jordan Valley License Application. No assurance can be provided that we will be ultimately awarded the Dead Sea License Application and the Zebulun Permit Application. The Petroleum Commissioner's refusal to award these applications can have a material adverse effect on our business and prospects.

Our lack of diversification increases the risk of an investment in us, and our financial condition and results of operations may deteriorate if we fail to diversify.

Our business focus is on oil and gas exploration on a limited number of properties in Israel. As a result, we lack diversification, in terms of both the nature and geographic scope of our business. We will likely be impacted more acutely by factors affecting our industry or the regions in which we operate than we would if our business were more diversified. If we are unable to diversify our operations, our financial condition and results of operations could deteriorate.

We currently have no proved reserves or current production and we may never have any.

We do not have any proved reserves or current production of oil or gas. We cannot assure you that any wells will be completed or produce oil or gas in commercially profitable quantities.

We have a history of losses and we cannot assure you that we will ever be profitable.

We incurred net losses of \$27,658,000 for the year ended December 31, 2010, \$4,424,000 for the year ended December 31, 2009, \$4,018,000 for the year ended December 31, 2008, and \$58,908,000 for period from April 6, 2000 (inception) to March 31, 2011. For the three months ended March 31, 2011, we incurred at net loss of \$2,421,000. We cannot provide any assurance that we will ever be profitable.

Oil and gas exploration is an inherently risky business.

Exploratory drilling involves enormous risks, including the risk that no commercially productive oil or natural gas reservoirs will be discovered. Even when properly used and interpreted, seismic data analysis and other computer simulation techniques are only tools used to assist geoscientists in trying to identify subsurface structures and hydrocarbon indicators. They do not allow the interpreter to know conclusively if hydrocarbons are present or economically available. The risk analysis techniques we use in evaluating potential drilling sites rely on subjective judgments of our personnel and consultants. Additionally, Zion is typically engaged in drilling very deep onshore wildcat wells in Israel where only approximately 500 total wells have ever been drilled, the vast majority of which are relatively substantially shallower. Consequently, our exploration risks are very substantial.

Operating hazards and uninsured risks with respect to the oil and gas operations may have material adverse effects on our operations.

Our exploration and, if successful, development and production operations are subject to all of the risks normally incident to the exploration for and the development and production of oil and gas, including blowouts, cratering, uncontrollable flows of oil, gas or well fluids, fires, pollution and other environmental and operating risks. These hazards could result in substantial losses due to injury or loss of life, severe damage to or destruction of property and equipment, pollution and other environmental damage and suspension of operations. While as a matter of practice we take out insurance against some or all of these risks, such insurance may not cover the particular hazard and may not be sufficient to cover all losses. The occurrence of a significant event adversely affecting any of the oil and gas properties in which we have an interest could have a material adverse affect on us, could materially affect our continued operation and could expose us to material liability.

Political risks may adversely affect our operations and/or inhibit our ability to raise capital.

Our operations are concentrated in Israel and could be directly affected by political, economic and military conditions in Israel. Efforts to secure a lasting peace between Israel and its Arab neighbors and Palestinian residents have been underway since Israel became a country in 1948 and the future of these peace efforts is still uncertain.

Kibbutz Ma'anit (where we drilled our first and second wells and are currently drilling our third well) is in an area adjacent to Israeli Arab towns where anti-Israeli rioting broke out in late 2000. On December 27, 2008, Israel began a military offensive against the Hamas terrorist organization based in Gaza. (Gaza is in the South and our license areas are in the North of Israel.) Currently, a cease-fire is in effect.

Recently, civil unrest, which initially began in Tunisia and then spread to Egypt, have resulted in changes in the Tunisian and Egyptian governments, has spread to other areas in the Middle East. There have been numerous demonstrations by protestors demanding a regime change in their country, and some of the demonstrations have been marked by violence. Recently, the King of Jordan reconstituted his government after protestors demanded economic and political reforms.

Civil unrest has continued to spread throughout the region and has involved other areas such as the Gaza Strip and nations such as Syria and Yemen. Such unrest, if it continues to spread or grow in intensity, could lead to civil wars; regime changes resulting in governments that are hostile to the US and/or Israel, such as has previously occurred in the region; violations of the 1979 Egypt-Israel Peace Treaty; or regional conflict.

At this time, we are uncertain of the outcome of these events. However, prolonged and/or widespread regional conflict in the Middle East could have the following results, among others:

- capital market reassessment of risk and subsequent redeployment of capital to more stable areas making it more difficult for us to obtain financing for potential development projects;
- security concerns in Israel, making it more difficult for our personnel or supplies to enter or exit the country;
  - security concerns leading to evacuation of our personnel;
  - damage to or destruction of our wells, production facilities, receiving terminals or other operating assets;
- inability of our service and equipment providers to deliver items necessary for us to conduct our operations in, resulting in delays; and
- lack of availability of drilling rig and experienced crew, oilfield equipment or services if third party providers decide to exit the region.

Loss of property and/or interruption of our business plans resulting from hostile acts could have a significant negative impact on our earnings and cash flow. In addition, we may not have enough insurance to cover any loss of property or other claims resulting from these risks.

We face various risks associated with the trend toward increased activism against oil and gas exploration and development activities.

Opposition toward oil and gas drilling and development activity has been growing globally and is particularly pronounced in OECD countries which include the US, the UK and Israel. Companies in the oil and gas industry, such as us, are often the target of activist efforts from both individuals and non-governmental organizations regarding safety, human rights, environmental compliance and business practices. Future activist efforts could result in the following:

- delay or denial of drilling permits;
- shortening of lease terms or reduction in lease size;
- restrictions on installation or operation of gathering or processing facilities;
- restrictions on the use of certain operating practices, such as hydraulic fracturing;
  - legal challenges or lawsuits;
  - damaging publicity about us;
  - increased costs of doing business;
  - reduction in demand for our products; and
- other adverse affects on our ability to develop our properties and expand production.

Our need to incur costs associated with responding to these initiatives or complying with any resulting new legal or regulatory requirements resulting from these activities that are substantial and not adequately provided for, could have a material adverse effect on our business, financial condition and results of operations.

Economic risks may adversely affect our operations and/or inhibit our ability to raise additional capital.

Economically, our operations in Israel may be subject to:

- exchange rate fluctuations;
- royalty and tax increases and other risks arising out of Israeli State sovereignty over the mineral rights in Israel and its taxing authority; and
- changes in Israel's economy that could cause the legislation of oil and gas price controls.

Consequently, our operations may be substantially affected by local economic factors beyond our control, any of which could negatively affect our financial performance and prospects.

Legal risks could negatively affect Zion's value.

Legally, our operations in Israel may be subject to:

- changes in the Petroleum Law resulting in modification of license and permit rights;
- adoption of new legislation relating to the terms and conditions pursuant to which operations in the energy sector may be conducted;
  - changes in laws and policies affecting operations of foreign-based companies in Israel; and
- changes in governmental energy and environmental policies or the personnel administering them.

The Israeli Ministry of National Infrastructures is considering proposed legislation relating to licensing requirements for entities engaged in the fuel sector that, if adopted as currently proposed, may result in our having to obtain additional licenses to market and sell hydrocarbons that may be discovered by us. We have been advised by the Ministry that they do not intend to deprive a holder of petroleum rights under the Petroleum Law of its right under that law to sell hydrocarbons discovered and produced under its petroleum rights. We cannot now predict whether or in what form the proposed legislation may be adopted or, if adopted, its possible impact on our operations.

Further, in the event of a legal dispute in Israel, we may be subject to the exclusive jurisdiction of Israeli courts or we may not be successful in subjecting persons who are not United States residents to the jurisdiction of courts in the United States, either of which could adversely affect the outcome of a dispute.

The Ministry of Environmental Protection is considering proposed legislation relating to polluted materials, including their production, treatment, handling, storage and transportation, that may affect land or water resources. Persons engaged in activities involving these types of materials will be required to prepare environmental impact statements and remediation plans either prior to commencing activities or following the occurrence of an event that may cause pollution to land or water resources or endanger public health. We do not know and cannot predict whether any legislation in this area will be enacted and, if so, in what form and which of its provisions, if any, will relate to and affect our activities, how and to what extent.

In March 2011, the Ministry of Environmental Protection issued initial guidelines relating to oil and gas drilling. This is the first time that the Ministry has published specific environmental guidelines for oil and gas drilling operations, relating to on-shore and off-shore Israel. The guidelines are subject to change.

The guidelines are detailed and provide environmental guidelines for all aspects of drilling operations, commencing from the when an application for a preliminary permit is filed, and continuing through license, drilling exploration, production lease, petroleum production and abandonment of the well. The guidelines address details that must be submitted regarding the drill site, surrounding area, the actual drilling operations, the storage and removal of waste and the closing or abandoning of a well.

Zion is currently studying the impact, if any, of these guidelines on its drilling operations and business.

Our petroleum rights (including licenses and permits) could be canceled, terminated or not extended, and we would not be able to successfully execute our business plan.

Any license or other petroleum right we hold or may be granted is granted for fixed periods and requires compliance with a work program detailed in the license or other petroleum right. If we do not fulfill the relevant work program due to inadequate funding or for any other reason, the Israeli government may terminate the license or any other petroleum right before its scheduled expiration date. No assurance can be provided that we will be able to obtain an extension to this if in fact we are unable to begin drilling by such date.

There are limitations on the transfer of interests in our petroleum rights, which could impair our ability to raise additional funds to execute our business plan.

The Israeli government has the right to approve any transfer of rights and interests in any license or other petroleum right we hold or may be granted and any mortgage of any license or other petroleum rights to borrow money. If we attempt to raise additional funds through borrowings or joint ventures with other companies and are unable to obtain required approvals from the government, the value of your investment could be significantly diluted or even lost.

Our dependence on the limited contractors, equipment and professional services available in Israel may result in increased costs and possibly material delays in our work schedule.

Due to the lack of competitive resources in Israel, costs for our operations may be more expensive than costs for similar operations in other parts of the world. We are also more likely to incur delays in our drilling schedule and be subject to a greater risk of failure in meeting our required work schedule. Similarly, some of the oil field personnel we need to undertake our planned operations are not necessarily available in Israel or available on short notice for work in Israel. Any or all of the factors specified above may result in increased costs and delays in the work schedule.

Our dependence on Israeli local licenses and permits may require more funds than we have budgeted and may cause delays in our work schedule.

In connection with drilling operations, we are subject to a number of Israeli local licenses and permits. Some of these are issued by the Israeli security forces, the Civil Aviation Authority, the Israeli Water Commission, the Israel Lands Authority, the holders of the surface rights in the lands on which we intend to conduct drilling operations, including Kibbutz Ma'anit, Kibbutz Ein Carmel, local and regional planning commissions and environmental authorities.

The surface rights to the drill site on which we are drilling the Ma'anit-Joseph #3 well are held under a long-term lease by Kibbutz Ma'anit. The rights are owned by the State of Israel and administered by the Israel Lands Authority. Permission has been granted to Zion by both Kibbutz Ma'anit and the Israel Lands Authority for the use of the surface

rights.

The surface rights to the drill site of the Elijah #3 well are held under a long-term lease by Kibbutz Ein Carmel. The rights are owned by the State of Israel and administered by the Israel Lands Authority. Permission has been granted to Zion by both Kibbutz Ein Carmel and the Israel Lands Authority for the use of the surface rights.

In the event of a commercial discovery and depending on the nature of the discovery and the production and related distribution equipment necessary to produce and sell the discovered hydrocarbons, we will be subject to additional licenses and permits, including from various departments in the Ministry of National Infrastructures, regional and local planning commissions, the environmental authorities and the Israel Lands Authority. If we are unable to obtain some or all of these permits or the time required to obtain them is longer than anticipated, we may have to alter or delay our planned work schedule, which would increase our costs.

If we are successful in finding commercial quantities of oil and/or gas, our operations will be subject to laws and regulations relating to the generation, storage, handling, emission, transportation and discharge of materials into the environment, which can adversely affect the cost, manner or feasibility of our doing business. Many Israeli laws and regulations require permits for the operation of various facilities, and these permits are subject to revocation, modification and renewal. Governmental authorities have the power to enforce compliance with their regulations, and violations could subject us to fines, injunctions or both.

If compliance with safety and environmental regulations is more expensive than anticipated, it could adversely impact the profitability of our business.

Risks of substantial costs and liabilities related to safety and environmental compliance issues are inherent in oil and gas operations. It is possible that other developments, such as stricter safety and environmental laws and regulations, and claims for damages to property or persons resulting from oil and gas exploration and production, would result in substantial costs and liabilities. This could also cause our insurance premiums to be significantly greater than anticipated.

Earnings will be diluted due to charitable contributions and key employee incentive plan.

We are legally bound to fund in the form of a royalty interest or equivalent net operating profits interest, 6% of our gross sales revenues, if any, to two charitable foundations. In addition, we may allocate 1.5% royalty interest or equivalent net operating profits interest to a key employee incentive plan designed as bonus compensation over and above our executive compensation payments. This means that the total royalty burden on our property (including the government royalty of 12.5%) may be up to 20% of gross revenue. As our expenses increase with respect to the amount of sales, these donations and allocation could significantly dilute future earnings and, thus, depress the price of the common stock.

#### Risks Related to Our Common Stock

Our stock price and trading volume may be volatile, which could result in losses for our stockholders.

The equity trading markets have recently experienced high volatility resulting in highly variable and unpredictable pricing of equity securities. If the turmoil in the equity trading markets continues, the market for our common stock could change in ways that may or may not be related to our business, our industry or our operating performance and financial condition. In addition, the trading volume in our common stock may fluctuate and cause significant price variations to occur. Some of the factors that could negatively affect our share price or result in fluctuations in the price or trading volume of our common stock include:

- \* actual or anticipated quarterly variations in our operating results, including further impairment to unproved oil and gas properties,
- \* changes in expectations as to our future financial performance or changes in financial estimates, if any,
  - \* announcements relating to our business,
  - \* conditions generally affecting the oil and natural gas industry,
  - \* the success of our operating strategy, and
  - \* the operating and stock performance of other comparable companies.

Many of these factors are beyond our control, and we cannot predict their potential effects on the price of our common stock. In addition, the stock market is subject to extreme price and volume fluctuations. During the past 52 weeks, our stock price has fluctuated from an intraday low of \$4.31 to an intraday high of \$6.07. This volatility has had a significant effect on the market price of securities issued by many companies for reasons unrelated to their operating performance and could have the same effect on our common stock.



No assurance can be provided that you will be able to resell your shares of common stock at or above the price you acquired those shares in this offering. We cannot assure you that the market price of common stock will increase to the per share price at which the Unit was offered or that the market price of common stock will not fluctuate or decline significantly.

The exercise of currently outstanding warrants and options or an offering under our shelf registration statement may adversely affect the market price of our common stock.

In connection with our Follow On Public Offering which we completed in January 2009, we issued warrants (trading on the NASDAQ Global Market under the symbol ZNWAW) to purchase up to 666,343 shares of our common stock at a per share exercise price of \$7.00, exercisable through January 31, 2012. The shares underlying these warrants have been registered and, accordingly, any shares issued upon the exercise of these warrants will be immediately resalable on the open market. As of May 4, 2011, warrants (trading under the symbol ZNWAW) for 505,179 shares of our common stock were outstanding.

In connection with our Rights Offering which we completed on December 15, 2010, we issued warrants (trading on the NASDAQ Global Market under the symbol ZNWAZ) to purchase up to 3,642,821 shares of our common stock at a per share exercise price of \$4.00, exercisable through December 31, 2012. The shares underlying these warrants have been registered and, accordingly, any shares issued upon the exercise of these warrants will be immediately resalable on the open market. As of May 6, 2011, warrants (trading with the symbol ZNWAZ) for 3,535,021 shares of our common stock are outstanding.

Additionally, as of May 6, 2011, we had employee stock options outstanding to purchase 780,665 shares of common stock at prices ranging between \$0.01 and \$8.25 per share.

The exercise or possibility of exercise of outstanding warrants and employee stock options, or any offering under the S-3 shelf registration statement that we may complete, could have an adverse effect on the market price for our common stock, and you may experience dilution to your holdings.

Cash dividends will not be paid to shareholders for the foreseeable future.

You may receive little or no cash or stock dividends on your shares of common stock. The board of directors has not directed the payment of any dividends, other than rights offering dividends, and does not anticipate paying dividends on the shares for the foreseeable future and intends to retain any future earnings to the extent necessary to develop and expand our business. Payment of cash dividends, if any, will depend, among other factors, on our earnings, capital requirements, and the general operating and financial condition, and will be subject to legal limitations on the payment of dividends out of paid-in capital.

#### USE OF PROCEEDS

Unless otherwise indicated in the prospectus supplement applicable to an offering, we intend to use any net proceeds from the sale of our securities to fund our operations and for other general corporate purposes, such as additions to working capital, expansion of our drilling and other exploration efforts and further our efforts to acquire a majority working interest in a deep-drilling capacity onshore drilling rig. We have not determined the amount of net proceeds to be used specifically for the foregoing purposes.

When we offer a particular series of securities, we will describe the intended use of the net proceeds from that offering in a prospectus supplement. The actual amount of net proceeds we spend on a particular use will depend on many factors, including, our future capital expenditures, the amount of cash required by our operations, and our future revenue growth, if any. Therefore, we will retain broad discretion in the use of the net proceeds.

#### DESCRIPTION OF COMMON STOCK

Our authorized share capital consists of 50,000,000 shares of common stock, par value \$0.01 per share. As of May 4, 2011, there were 25,076,518 common shares outstanding. All outstanding shares of common stock are fully paid and non-assessable. On April 13, 2011, our Board of Directors approved, subject to the ratification of our stockholders, a resolution to increase our authorized share capital to 100,000,000 shares. The resolution is to be considered and voted on by the Company's stockholders at the 2011 annual meeting of the stockholders scheduled to be held on June 21, 2011.

The following description of our common stock, together with any additional information we include in any applicable prospectus supplement, summarizes the material terms and provisions of our common stock that we may offer under this prospectus. While the terms we have summarized below will apply generally to any future common stock that we may offer, we will describe the particular terms of any class or series of these securities in more detail in the applicable prospectus supplement. For the complete terms of our common stock, please refer to our Articles of Incorporation and our bylaws that are incorporated by reference into the registration statement of which this prospectus is a part or may be incorporated by reference in this prospectus or any applicable prospectus supplement. The summary below and that contained in any applicable prospectus supplement are qualified in their entirety by reference to our Articles of Incorporation and bylaws.

Common Stock

**Voting .** Holders of shares of common stock are entitled to one vote for each share on all matters to be voted on by the stockholders. They are not entitled to cumulative voting rights.

**Dividends and Other Distributions .** Holders of our common stock are entitled to share in an equal amount per share in any dividends declared by our board of directors on the common stock and paid out of legally available assets.

**Distributions on Dissolution .** In the event of our liquidation, dissolution or winding up, holders of our common stock are entitled to share ratably in the assets remaining after payment of liabilities.

**Other Rights.** Our common stock does not carry any preemptive rights enabling a holder to subscribe for, or receive shares of, any class of our common stock or any other securities convertible into shares of any class of our common stock. There are no conversion or redemption rights or sinking funds provided for our stockholders.

### Certificate of Incorporation and Bylaws Provisions

The following summary describes provisions of our certificate of incorporation and bylaws. They may have the effect of discouraging a tender offer, proxy contest or other takeover attempt that is opposed by our board of directors. These provisions include:

- restrictions on the rights of shareholders to remove directors;
- limitations against shareholders calling a Special Meeting of shareholders or acting by unanimous written consent in lieu of a meeting;
- requirements for advance notice of actions proposed by shareholders for consideration at meetings of the shareholders; and
- restrictions on business combination transactions with "related persons."

### Classified board of directors and removal

Our certificate of incorporation provides that the board of directors shall be divided into three classes, designated Class I, Class II and Class III, with the classes to be as nearly equal in number as possible. The term of office of each class expires at the third Annual Meeting of Shareholders for the election of directors following the election of such class (except for the initial classes). Directors may be removed only for cause and only upon the affirmative vote of holders of at least 66 2/3% of our voting stock at a Special Meeting of Shareholders called expressly for that purpose. The classification of directors could have the effect of making it more difficult for shareholders to change the composition of the board of directors. At least two Annual Meetings of Shareholders, instead of one, are generally required to effect a change in a majority of the board of directors.

The classification provisions could also have the effect of discouraging a third party from initiating a proxy contest, making a tender offer or otherwise attempting to obtain control of our company, even though such an attempt might be beneficial to us and our shareholders. The classification of the board of directors could thus increase the likelihood that incumbent directors will retain their positions. In addition, because the classification provisions may discourage accumulations of large blocks of stock by purchasers whose objective is to take control of our company and remove a majority of the board of directors, the classification of the board of directors could tend to reduce the likelihood of fluctuations in the market price of the common stock that might result from accumulations of large blocks. Accordingly, shareholders could be deprived of opportunities to sell their shares of common stock at a higher market price than might otherwise be the case.

### Shareholder action by written consent and special meetings

Our bylaws provide that shareholder action can be taken only at an Annual or Special Meeting of shareholders and may not be taken by written consent in lieu of a meeting once our number of shareholders exceeded sixty, which occurred in the first quarter of 2003. Special Meetings of shareholders can be called only upon a resolution adopted by the board of directors. Moreover, the business permitted to be conducted at any Special Meeting of shareholders is limited to the business brought before the meeting under the Notice of Meeting given by us. These provisions may have the effect of delaying consideration of a shareholder proposal until the next Annual Meeting. These provisions would also prevent the holders of a majority of our voting stock from unilaterally using the written consent or Special Meeting procedure to take shareholder action.

### Advance notice provisions for shareholder nominations and shareholder proposals

Our bylaws establish an advance notice procedure for shareholders to make nominations of candidates for election as directors or bring other business before a meeting of shareholders. The shareholder notice procedure provides that

only persons who are nominated by, or at the direction of, the board of directors, or by a shareholder who has given timely written notice containing specified information to our secretary prior to the meeting at which directors are to be elected, will be eligible for election as our directors. The shareholder notice procedure also provides that at a meeting of the shareholders only such business may be conducted as has been brought before the meeting by, or at the direction of, the chairman of the board of directors, or in the absence of the chairman of the board, the chief executive officer, the president, or by a shareholder who has given timely written notice containing specified information to our secretary of such shareholder's intention to bring such business before such meeting.

Although our bylaws do not give the board of directors any power to approve or disapprove shareholder nominations for the election of directors or proposals for action, they may have the effect of precluding a contest for the election of directors or the consideration of shareholder proposals if the proper procedures are not followed, and of discouraging or deterring a third party from conducting a solicitation of proxies to elect its own slate of directors or to approve its own proposal, without regard to whether consideration of such nominees or proposals might be harmful or beneficial to Zion and our shareholders.

#### Business combination provision

Our certificate of incorporation contains a provision for approval of specified business combination transactions involving any person, entity or group that beneficially owns at least 10% of our aggregate voting stock. Such person, entity or group is sometimes referred to as a "related person". This provision requires the affirmative vote of the holders of not less than 66 2/3% of our voting stock to approve specified transactions between a related person and Zion, including:

- any merger or consolidation;
- any sale, lease, exchange, mortgage, pledge, transfer or other disposition of our assets having a fair market value of more than 10% of our total assets, or assets representing more than 10% of our cash flow or earning power, or 10% of stockholders' equity, which is referred to as a "substantial part";

- any sale, lease, exchange, mortgage, pledge, transfer or other disposition to or with us of all or a substantial part of the assets of a related person;
- any reclassification of securities, recapitalization, or any other transaction involving us that would have the effect of increasing the voting power of a related person;
- the adoption of a plan or proposal for our liquidation or dissolution proposed by or on behalf of a related person; and
- the entering into of any agreement, contract or other arrangement providing for any of the transactions described above.

This voting requirement will not apply to certain transactions, including any transaction approved by a majority vote of the directors (called "Disinterested Directors") who are not affiliated or associated with the related person described above, provided that there are at least three Disinterested Directors. This provision could have the effect of delaying or preventing a change in control of Zion in a transaction or series of transactions.

#### Liability of directors and indemnification

Our certificate of incorporation provides that a director will not be personally liable to us or our shareholders for breach of fiduciary duty as a director, except to the extent that such exemption or limitation of liability is not permitted under Delaware General Corporation Law. Any amendment or repeal of such provisions may not adversely affect any right or protection of a director existing under our certificate of incorporation for any act or omission occurring prior to such amendment or repeal.

Our certificate of incorporation and bylaws provide that each person who at any time serves or served as one of our directors or officers, or any person who, while one of our directors or officers, is or was serving at our request as a director or officer of another corporation, partnership, joint venture, trust or other enterprise, is entitled to indemnification and the advancement of expenses from us, to the fullest extent permitted by applicable Delaware law. However, as provided under applicable Delaware General Corporation Law, this indemnification will only be provided if the indemnitee acted in good faith and in a manner he or she reasonably believed to be in, or not opposed to, the best interests of our company.

#### Amendments

Our certificate of incorporation provides that we reserve the right to amend, alter, change, or repeal any provision contained in our certificate of incorporation, and all rights conferred to shareholders are granted subject to such reservation. The affirmative vote of holders of not less than 80% of our voting stock, voting together as a single class, is required to alter, amend, adopt any provision inconsistent with, or to repeal certain specified provisions of our certificate of incorporation. However, the 80% vote described in the prior sentence is not required for any alteration, amendment, adoption of inconsistent provision or repeal of the "business combination" provision discussed under the "Business combination provision" paragraph above which is recommended to the shareholders by two-thirds of our Disinterested Directors, and such alteration, amendment, adoption of inconsistent provision or repeal shall require the vote, if any, required under the applicable provisions of the Delaware General Corporation Law, our certificate of incorporation and our bylaws. In addition, our bylaws provide that shareholders may only adopt, amend or repeal our bylaws by the affirmative vote of holders of not less than 66-2/3% of our voting stock, voting together as a single class. Our bylaws may also be amended by the affirmative vote of two-thirds of our board of directors.

#### Listing Symbols on the NASDAQ Global Market

Our common stock is quoted on the NASDAQ Global Market under the symbol "ZN" The last sale price of our common stock on the NASDAQ Global Market on May 13, 2011 was \$5.09. We also have two series of common stock

purchase warrants quoted on the NASDAQ Global Market under the symbols “ZNWAW” and “ZNWAZ”. The applicable prospectus supplement will contain information, where applicable, as to any other listing on NASDAQ Global Market or any securities market or other exchange of the securities, if any, covered by the prospectus supplement.

#### Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Registrar and Transfer Company, Cranford, New Jersey.

#### DESCRIPTION OF DEBT SECURITIES

The following description, together with the additional information we include in any applicable prospectus supplements, summarizes the general terms and provisions of the debt securities that we may offer under this prospectus. While the terms we have summarized below will generally apply to any future debt securities we may offer under this prospectus, we will describe the particular terms of any debt securities that we may offer in more detail in the applicable prospectus supplement. The terms of any debt securities we offer under a prospectus supplement may differ from the terms we describe below. However, no prospectus supplement shall fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness. As of the date of this prospectus, we have no outstanding registered debt securities.

We may issue one or more series of notes under indentures, which we will enter into with the trustee to be named therein. If we issue debt securities, we will file these documents as exhibits to the registration statement of which this prospectus is a part, or incorporate them by reference from a Current Report on Form 8-K that we file with the SEC. We use the term “indentures” to refer to any and all indentures that we may enter into with respect to debt securities issued and sold pursuant to this Registration Statement.

The indentures will be qualified under the Trust Indenture Act of 1939. We use the term “debenture trustee” to refer to either the senior trustee or the subordinated trustee, as applicable.

The following summaries of material provisions of the debt securities are subject to, and qualified in their entirety by reference to, all the provisions of the indenture applicable to a particular series of debt securities. We urge you to read the applicable prospectus supplements related to the debt securities that we sell under this prospectus, as well as the complete indentures that contain the terms of the debt securities. Except as we may otherwise indicate, the terms of the senior and the subordinated indentures are identical.

#### General

The indentures may limit the aggregate principal amount of the debt securities which we may issue and will provide that we may issue the debt securities from time to time in one or more series. The indentures may or may not limit the amount of our other indebtedness or the debt securities which we may issue. The particular terms of each series of debt securities will be described in a prospectus supplement relating to such series, including any pricing supplement. The prospectus supplement will set forth:

- the title;
- the principal amount being offered, and, if a series, the total amount authorized and the total amount outstanding;
- any limit on the amount that may be issued;
- whether or not we will issue the series of debt securities in global form and, if so, the terms and who the depository will be;
- the maturity date;
- whether and under what circumstances, if any, we will pay additional amounts on any debt securities held by a person who is not a United States person for tax purposes, and whether we can redeem the debt securities if we have to pay such additional amounts;
- the annual interest rate, which may be fixed or variable, or the method for determining the rate, the date interest will begin to accrue, the dates interest will be payable and the regular record dates for interest payment dates or the method for determining such dates;
  - whether or not the debt securities will be secured or unsecured, and the terms of any secured debt;
    - the terms of the subordination of any series of subordinated debt;
    - the place where payments will be payable;
    - restrictions on transfer, sale or other assignment, if any;



- our right, if any, to defer payment of interest and the maximum length of any such deferral period;
- the date, if any, after which, the conditions upon which, and the price at which we may, at our option, redeem the series of debt securities pursuant to any optional or provisional redemption provisions, and any other applicable terms of those redemption provisions;
- the date, if any, on which, and the price at which we are obligated, pursuant to any mandatory sinking fund or analogous fund provisions or otherwise, to redeem, or at the holder's option to purchase, the series of debt securities and the currency or currency unit in which the debt securities are payable;
  - whether the indenture will restrict our ability to:

- incur additional indebtedness;
- issue additional securities;
- create liens;
- pay dividends and make distributions in respect of our capital stock;
- redeem capital stock;
- place restrictions on our subsidiaries' ability to pay dividends, make distributions or transfer assets;
  - make investments or other restricted payments;
  - sell or otherwise dispose of assets;
  - enter into sale-leaseback transactions;
  - engage in transactions with stockholders and affiliates;
  - issue or sell stock of our subsidiaries; or
  - effect a consolidation or merger;
- whether the indenture will require us to maintain any interest coverage, fixed charge, cash flow-based, asset-based or other financial ratios;
- a discussion of any material or special United States federal income tax considerations applicable to the debt securities;
  - information describing any book-entry features;
  - provisions for a sinking fund purchase or other analogous fund, if any;
- whether the debt securities are to be offered at a price such that they will be deemed to be offered at an "original issue discount" as defined in paragraph (a) of Section 1273 of the Internal Revenue Code;
  - the procedures for any auction and remarketing, if any;
- the denominations in which we will issue the series of debt securities, if other than denominations of \$1,000 and any integral multiple thereof;
  - if other than dollars, the currency in which the series of debt securities will be denominated; and
- any other specific terms, preferences, rights or limitations of, or restrictions on, the debt securities, including any events of default that are in addition to those described in this prospectus or any covenants provided with respect to the debt securities that are in addition to those described above, and any terms which may be required by us or advisable under applicable laws or regulations or advisable in connection with the marketing of the debt securities.

## Conversion or Exchange Rights

We will set forth in the prospectus supplement the terms on which a series of debt securities may be convertible into or exchangeable for common stock or other securities of ours or a third party, including the conversion or exchange rate, as applicable, or how it will be calculated, and the applicable conversion or exchange period. We will include provisions as to whether conversion or exchange is mandatory, at the option of the holder or at our option. We may include provisions pursuant to which the number of our securities or the securities of a third party that the holders of the series of debt securities receive upon conversion or exchange would, under the circumstances described in those provisions, be subject to adjustment, or pursuant to which those holders would, under those circumstances, receive other property upon conversion or exchange, for example in the event of our merger or consolidation with another entity.

### Consolidation, Merger or Sale

The description of the debt securities in the prospectus supplement or the indentures may provide that we may not consolidate or amalgamate with or merge into any person or convey, transfer or lease our properties or assets as an entirety or substantially as an entirety to any person, and we may not permit any person to consolidate or amalgamate with or merge into us, or convey, transfer or lease its properties and assets as an entirety or substantially as an entirety to us, unless:

- immediately after giving effect to the transaction, no event of default, and no event which after notice or lapse of time or both would become an event of default, will have occurred and be continuing; and
- certain other conditions are met.

If the debt securities are convertible for our other securities, the person with whom we consolidate or merge or to whom we sell all of our property must make provisions for the conversion of the debt securities into securities that the holders of the debt securities would have received if they had converted the debt securities before the consolidation, merger or sale.

### Events of Default Under the Indenture

Each of the following constitute reasonably standard events of default that may be included in any finalized indenture or prospectus supplement as constituting an event of default with respect to any series of debt securities that we may issue:

- if we fail to pay interest when due and payable and our failure continues for 30 days and the time for payment has not been extended or deferred;
- if we fail to pay the principal, sinking fund payment or premium, if any, when due and payable and the time for payment has not been extended or delayed;
- if we fail to observe or perform any other covenant contained in the debt securities or the indentures, other than a covenant specifically relating to another series of debt securities, and our failure continues for 90 days after we receive notice from the debenture trustee or holders of at least 25% in aggregate principal amount of the outstanding debt securities of the applicable series;
  - if specified events of bankruptcy, insolvency or reorganization occur; and
- any other event of default provided in or pursuant to the applicable indenture or prospectus supplement with respect to the debt securities of that series.

If an event of default with respect to debt securities of any series occurs and is continuing, other than an event of default in the event of bankruptcy, insolvency or reorganization, the debenture trustee or the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series, by notice to us in writing, and to the debenture trustee if notice is given by such holders, may declare the unpaid principal of, premium, if any, and accrued interest, if any, due and payable immediately. If an event of default due to bankruptcy, insolvency or reorganization occurs with respect to us, the principal amount of and accrued interest, if any, of each issue of debt securities then outstanding shall be due and payable without any notice or other action on the part of the debenture trustee or any holder.

The holders of a majority in principal amount of the outstanding debt securities of an affected series may waive any default or event of default with respect to the series and its consequences, except defaults or events of default regarding payment of principal, premium, if any, or interest, unless we have cured the default or event of default in accordance with the indenture.

Subject to the terms of the indentures, if an event of default under an indenture shall occur and be continuing, the debenture trustee will be under no obligation to exercise any of its rights or powers under such indenture at the request or direction of any of the holders of the applicable series of debt securities, unless such holders have offered the debenture trustee reasonable indemnity. The holders of a majority in principal amount of the outstanding debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the debenture trustee, or exercising any trust or power conferred on the debenture trustee, with respect to the debt securities of that series, provided that:

- the direction so given by the holder is not in conflict with any law or the applicable indenture; and
- subject to its duties under the Trust Indenture Act of 1939, the debenture trustee need not take any action that might involve it in personal liability or might be unduly prejudicial to the holders not involved in the proceeding.

A holder of the debt securities of any series will only have the right to institute a proceeding under the indentures or to appoint a receiver or trustee, or to seek other remedies if:

- the holder has given written notice to the debenture trustee of a continuing event of default with respect to that series;
- the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series have made written request, and such holders have offered reasonable indemnity to the debenture trustee to institute the proceeding as trustee; and
- the debenture trustee does not institute the proceeding, and does not receive from the holders of a majority in aggregate principal amount of the outstanding debt securities of that series other conflicting directions within 90 days after the notice, request and offer.

These limitations do not apply to a suit instituted by a holder of debt securities if we default in the payment of the principal, premium, if any, or interest on, the debt securities.

We will periodically file statements with the debenture trustee regarding our compliance with specified covenants in the indentures.

#### Modification of Indenture; Waiver

We and the debenture trustee may change an indenture without the consent of any holders with respect to specific matters, including:

- to fix any ambiguity, defect or inconsistency in the indenture;
- to comply with the provisions described above under “Consolidation, Merger or Sale”;
- to comply with any requirements of the SEC in connection with the qualification of any indenture under the Trust Indenture Act of 1939;
  - to evidence and provide for the acceptance of appointment by a successor trustee;
  - to provide for uncertificated debt securities and to make all appropriate changes for such purpose;
- to add to, delete from, or revise the conditions, limitations and restrictions on the authorized amount, terms or purposes of issuance, authorization and delivery of debt securities or any series, as set forth in the indenture;
  - to provide for the issuance of and establish the form and terms and conditions of the debt securities of any series as provided under “General,” to establish the form of any certifications required to be furnished pursuant to the terms of the indenture or any series of debt securities, or to add to the rights of the holders of any series of debt securities;
- to add to our covenants such new covenants, restrictions, conditions or provisions for the protection of the holders, to make the occurrence, or the occurrence and the continuance, of a default in any such additional covenants, restrictions, conditions or provisions an event of default, or to surrender any of our rights or powers under the indenture; or
- to change anything that does not materially adversely affect the interests of any holder of debt securities of any series.

In addition, under the indentures, the rights of holders of a series of debt securities may be changed by us and the debenture trustee with the written consent of the holders of at least a majority in aggregate principal amount of the outstanding debt securities of each series that is affected. However, we and the debenture trustee may only make the following changes with the consent of each holder of any outstanding debt securities affected:

- extending the fixed maturity of the series of debt securities;
- reducing the principal amount, reducing the rate of or extending the time of payment of interest, or reducing any premium payable upon the redemption of any debt securities; or
- reducing the percentage of debt securities, the holders of which are required to consent to any amendment, supplement, modification or waiver.

#### Discharge

Each indenture will provide that we can elect to be discharged from our obligations with respect to one or more series of debt securities, except for obligations to:

- register the transfer or exchange of debt securities of the series;

- replace stolen, lost or mutilated debt securities of the series;
- maintain paying agencies;
- hold monies for payment in trust;
- recover excess money held by the debenture trustee;
- compensate and indemnify the debenture trustee; and
- appoint any successor trustee.

In order to exercise our rights to be discharged, we must deposit with the debenture trustee money or government obligations sufficient to pay all the principal of, any premium, if any, and interest on, the debt securities of the series on the dates payments are due.

#### Form, Exchange and Transfer

We will issue the debt securities of each series only in fully registered form without coupons and, unless we otherwise specify in the applicable prospectus supplement, in denominations of \$1,000 and any integral multiple thereof. The indenture will provide that we may issue debt securities of a series in temporary or permanent global form and as book-entry securities that will be deposited with, or on behalf of, The Depository Trust Company, New York, New York, known as DTC, or another depository named by us and identified in a prospectus supplement with respect to that series. See “Legal Ownership of Securities” for a further description of the terms relating to any book-entry securities.

At the option of the holder, subject to the terms of the indentures and the limitations applicable to global securities described in the applicable prospectus supplement, the holder of the debt securities of any series can exchange the debt securities for other debt securities of the same series, in any authorized denomination and of like tenor and aggregate principal amount.

Subject to the terms of the indentures and the limitations applicable to global securities set forth in the applicable prospectus supplement, holders of the debt securities may present the debt securities for exchange or for registration of transfer, duly endorsed or with the form of transfer endorsed thereon duly executed if so required by us or the security registrar, at the office of the security registrar or at the office of any transfer agent designated by us for this purpose. Unless otherwise provided in the debt securities that the holder presents for transfer or exchange, we will make no service charge for any registration of transfer or exchange, but we may require payment of any taxes or other governmental charges.

We will name in the applicable prospectus supplement the security registrar, and any transfer agent in addition to the security registrar, that we initially designate for any debt securities. We may at any time designate additional transfer agents or rescind the designation of any transfer agent or approve a change in the office through which any transfer agent acts, except that we will be required to maintain a transfer agent in each place of payment for the debt securities of each series.

If we elect to redeem the debt securities of any series, we will not be required to:

- issue, register the transfer of, or exchange any debt securities of any series being redeemed in part during a period beginning at the opening of business 15 days before the day of mailing of a notice of redemption of any debt



securities that may be selected for redemption and ending at the close of business on the day of the mailing; or

- register the transfer of or exchange any debt securities so selected for redemption, in whole or in part, except the unredeemed portion of any debt securities we are redeeming in part.

#### Information Concerning the Debenture Trustee

The debenture trustee, other than during the occurrence and continuance of an event of default under an indenture, will undertake to perform only those duties as are specifically set forth in the applicable indenture. Upon an event of default under an indenture, the debenture trustee must use the same degree of care as a prudent person would exercise or use in the conduct of his or her own affairs. Subject to this provision, the debenture trustee is under no obligation to exercise any of the powers given it by the indentures at the request of any holder of debt securities unless it is offered reasonable security and indemnity against the costs, expenses and liabilities that it might incur.

## Payment and Paying Agents

Unless we otherwise indicate in the applicable prospectus supplement, we will make payment of the interest on any debt securities on any interest payment date to the person in whose name the debt securities, or one or more predecessor securities, are registered at the close of business on the regular record date for the interest.

We will pay principal of and any premium and interest on the debt securities of a particular series at the office of the paying agents designated by us, except that, unless we otherwise indicate in the applicable prospectus supplement, we may make interest payments by check which we will mail to the holder or by wire transfer to certain holders. Unless we otherwise indicate in a prospectus supplement, we will designate the corporate office of the debenture trustee in the City of New York as our sole paying agent for payments with respect to debt securities of each series. We will name in the applicable prospectus supplement any other paying agents that we initially designate for the debt securities of a particular series. We will maintain a paying agent in each place of payment for the debt securities of a particular series.

All money we pay to a paying agent or the debenture trustee for the payment of the principal of or any premium or interest on any debt securities which remains unclaimed at the end of two years after such principal, premium or interest has become due and payable will be repaid to us, and the holder of the debt security thereafter may look only to us for payment thereof.

## Subordination of Subordinated Debt Securities

The subordinated debt securities will be subordinate and junior in priority of payment to certain of our other indebtedness to the extent described in a prospectus supplement. The indentures will not limit the amount of indebtedness which we may incur, including senior indebtedness or subordinated indebtedness, and will not limit us from issuing any other debt, including secured debt or unsecured debt.

## DESCRIPTION OF WARRANTS

The following description, together with the additional information we may include in any applicable prospectus supplements, summarizes the material terms and provisions of the warrants that we may offer under this prospectus. While the terms we have summarized below will apply generally to any warrants that we may offer under this prospectus, we will describe the particular terms of any series of warrants in more detail in the applicable prospectus supplement. The terms of any warrants offered under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a Current Report on Form 8-K that we file with the SEC, the form of warrant agreement, including a form of warrant certificate, that describes the terms of the particular series of warrants we are offering before the issuance of the related series of warrants. The following summaries of material provisions of the warrants and the warrant agreements are subject to, and qualified in their entirety by reference to, all the provisions of the warrant agreement and warrant certificate applicable to a particular series of warrants. We urge you to read the applicable prospectus supplements related to the particular series of warrants that we sell under this prospectus, as well as the complete warrant agreements and warrant certificates that contain the terms of the warrants.

## General

We will describe in the applicable prospectus supplement the terms relating to a series of warrants, including:

- the offering price and aggregate number of warrants offered;
- the currency for which the warrants may be purchased;
- if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;
- if applicable, the date on and after which the warrants and the related securities will be separately transferable;
- in the case of warrants to purchase debt securities, the principal amount of debt securities purchasable upon exercise of one warrant and the price at which, and currency in which, this principal amount of debt securities may be purchased upon such exercise;
- in the case of warrants to purchase common stock, the number of shares of common stock may be, purchasable upon the exercise of one warrant and the price at which these shares may be purchased upon such exercise;
- the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreements and the warrants;
- the terms of any rights to redeem or call the warrants;

- any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;
  - the dates on which the right to exercise the warrants will commence and expire;
  - the manner in which the warrant agreements and warrants may be modified;
  - federal income tax consequences of holding or exercising the warrants;
  - the terms of the securities issuable upon exercise of the warrants; and
- any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including:

- in the case of warrants to purchase debt securities, the right to receive payments of principal of, or premium, if any, or interest on, the debt securities purchasable upon exercise or to enforce covenants in the applicable indenture; or

#### Exercise of Warrants

Each warrant will entitle the holder to purchase the securities that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement. Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants at any time up to the specified time on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Holders of the warrants may exercise the warrants by delivering the warrant certificate representing the warrants to be exercised together with specified information, and paying the required amount to the warrant agent in immediately available funds, as provided in the applicable prospectus supplement. We will set forth on the reverse side of the warrant certificate and in the applicable prospectus supplement the information that the holder of the warrant will be required to deliver to the warrant agent.

Upon receipt of the required payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate are exercised, then we will issue a new warrant certificate for the remaining amount of warrants. If we so indicate in the applicable prospectus supplement, holders of the warrants may surrender securities as all or part of the exercise price for warrants.

#### Enforceability of Rights by Holders of Warrants

Each warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action its right to exercise, and receive the securities purchasable upon exercise of, its warrants.

## DESCRIPTION OF UNITS

The following description, together with the additional information we may include in any applicable prospectus supplements, summarizes the material terms and provisions of the units that we may offer under this prospectus. While the terms we have summarized below will apply generally to any units that we may offer under this prospectus, we will describe the particular terms of any series of units in more detail in the applicable prospectus supplement. The terms of any units offered under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that is not registered and described in this prospectus at the time of its effectiveness.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a Current Report on Form 8-K that we file with the SEC, the form of unit agreement that describes the terms of the series of units we are offering, and any supplemental agreements, before the issuance of the related series of units. The following summaries of material terms and provisions of the units are subject to, and qualified in their entirety by reference to, all the provisions of the unit agreement and any supplemental agreements applicable to a particular series of units. We urge you to read the applicable prospectus supplements related to the particular series of units that we sell under this prospectus, as well as the complete unit agreement and any supplemental agreements that contain the terms of the units.

## General

We may issue units comprised of one or more debt securities, shares of common stock and warrants in any combination. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any time before a specified date.

We will describe in the applicable prospectus supplement the terms of the series of units, including:

- the designation and terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any provisions of the governing unit agreement that differ from those described below; and
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units.

The provisions described in this section, as well as those described under “Description of Common Stock,” “Description of Debt Securities” and “Description of Warrants” will apply to each unit and to any common stock, debt security or warrant included in each unit, respectively.

## Issuance in Series

We may issue units in such amounts and in numerous distinct series as we determine.

## Enforceability of Rights by Holders of Units

Each unit agent will act solely as our agent under the applicable unit agreement and will not assume any obligation or relationship of agency or trust with any holder of any unit. A single bank or trust company may act as unit agent for more than one series of units. A unit agent will have no duty or responsibility in case of any default by us under the applicable unit agreement or unit, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a unit may, without the consent of the related unit agent or the holder of any other unit, enforce by appropriate legal action its rights as holder under any security included in the unit.

## Title

We, the unit agents and any of their agents may treat the registered holder of any unit certificate as an absolute owner of the units evidenced by that certificate for any purpose and as the person entitled to exercise the rights attaching to the units so requested, despite any notice to the contrary. See “Legal Ownership of Securities.”

## DESCRIPTION OF RIGHTS

The following description, together with the additional information we may include in any applicable prospectus supplements, summarizes the material terms and provisions of the rights we may issue from time to time. While the terms we have summarized below will apply generally to any rights that we may offer under this prospectus, we will describe the particular terms of any rights offering in more detail in the applicable prospectus supplement. The terms of any rights offering under a prospectus supplement may differ from the terms described below. However, no prospectus supplement will fundamentally change the terms that are set forth in this prospectus or offer a security that

is not registered and described in this prospectus at the time of its effectiveness.

We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from a Current Report on Form 8-K that we file with the SEC, the form of subscription rights agreement, including a form of rights certificate, that describes the terms of the particular rights we are offering before the issuance of securities. The following summaries of material provisions of the rights and the subscription agreements are subject to, and qualified in their entirety by reference to, all the provisions of the subscription agreement and subscription certificates applicable to a particular rights offering. We urge you to read the applicable prospectus supplements related to the securities that we sell under this prospectus, as well as the complete subscription agreements and subscription certificates that contain the terms of the subscription rights.

#### General

We may issue rights to purchase one or more of our securities. Rights may be issued independently or together with other securities and may or may not be transferable by the person purchasing or receiving the rights. In connection with any rights offering to our stockholders, we may enter into a standby underwriting, backstop or other arrangement with one or more underwriters or other persons pursuant to which such underwriters or other persons would purchase any offered securities remaining unsubscribed for after such rights offering. In connection with a rights offering to our stockholders, we would distribute certificates evidencing the rights and a prospectus supplement to our stockholders on or about the record date that we set for receiving rights in such rights offering.

The applicable prospectus supplement will describe the following terms of any rights we may issue, including the following:

- the title and aggregate number of the rights;
- the subscription price or a formula for the determination of the subscription price for the rights and the currency or currencies in which the subscription price may be payable;
- if applicable, the designation and terms of the securities with which the rights are issued and the number of rights issued with each such security or each principal amount of such security;
  - the number or a formula for the determination of the number of the rights issued to each stockholder;
- the extent to which the rights are transferable;
- in the case of rights to purchase debt securities, the principal amount of debt securities purchasable upon exercise of one right;
- in the case of rights to purchase common stock, the number of shares of common stock purchasable upon exercise of one right;
- the date on which the right to exercise the rights will commence, and the date on which the rights will expire (subject to any extension);
  - if applicable, the minimum or maximum amount of the rights that may be exercised at any one time;
  - the extent to which such rights include an over-subscription privilege with respect to unsubscribed securities;
- if applicable, the procedures for adjusting the subscription price and number of shares of common stock purchasable upon the exercise of each right upon the occurrence of certain events, including stock splits, reverse stock splits, combinations, subdivisions or reclassifications of common stock or preferred stock;
  - the effect of any merger, consolidation, sale or other disposition of our business on the rights;
    - the terms of any rights to redeem or call the rights;
    - information with respect to book-entry procedures, if any;
    - the terms of the securities issuable upon exercise of the rights;
  - if applicable, the material terms of any standby underwriting, backstop or other purchase arrangement that we may enter into in connection with the rights offering;
    - if applicable, a discussion of certain U.S. Federal income tax considerations; and
- any other terms of the rights, including terms, procedures and limitations relating to the exchange and exercise of the rights.

#### Exercise of Rights



Each right will entitle the holder to purchase for cash or other consideration such shares of stock or principal amount of securities at the subscription price as shall in each case be set forth in, or be determinable as set forth in, the prospectus supplement relating to the rights offered thereby. Rights may be exercised as set forth in the prospectus supplement beginning on the date specified therein and continuing until the close of business on the expiration date set forth in the prospectus supplement relating to the rights offered thereby. After the close of business on the expiration date, unexercised rights will become void.

Upon receipt of payment and a subscription certificate properly completed and duly executed at the corporate trust office of the subscription agent or any other office indicated in the prospectus supplement, we will, as soon as practicable, forward the securities purchasable upon such exercise. If less than all of the rights represented by such subscription certificate are exercised, a new subscription certificate will be issued for the remaining rights. If we so indicate in the applicable prospectus supplement, holders of the rights may surrender securities as all or part of the exercise price for rights.

We may determine to offer any unsubscribed offered securities directly to stockholders, persons other than stockholders, to or through agents, underwriters or dealers or through a combination of such methods, including pursuant to standby underwriting, backstop or other arrangements, as set forth in the applicable prospectus supplement.

Prior to exercising their rights, holders of rights will not have any of the rights of holders of the securities purchasable upon subscription, including, in the case of rights to purchase common stock or preferred stock, the right to receive dividends, if any, or payments upon our liquidation, dissolution or winding up or to exercise any voting rights or, in the case of rights to purchase debt securities, the right to receive principal, premium, if any, or interest payments, on the debt securities purchasable upon exercise or to enforce covenants in the applicable indenture.

## LEGAL OWNERSHIP OF SECURITIES

We can issue securities in registered form or in the form of one or more global securities. We describe global securities in greater detail below. We refer to those persons who have securities registered in their own names on the books that we or any applicable trustee or depositary or warrant agent maintain for this purpose as the “holders” of those securities. These persons are the legal holders of the securities. We refer to those persons who, indirectly through others, own beneficial interests in securities that are not registered in their own names, as “indirect holders” of those securities. As we discuss below, indirect holders are not legal holders, and investors in securities issued in book-entry form or in street name will be indirect holders.

### Book-Entry Holders

We may issue securities in book-entry form only, as we will specify in the applicable prospectus supplement. This means securities may be represented by one or more global securities registered in the name of a financial institution that holds them as depositary on behalf of other financial institutions that participate in the depositary’s book-entry system. These participating institutions, which are referred to as participants, in turn, hold beneficial interests in the securities on behalf of themselves or their customers.

Only the person in whose name a security is registered is recognized as the holder of that security. Global securities will be registered in the name of the depositary. Consequently, for global securities, we will recognize only the depositary as the holder of the securities, and we will make all payments on the securities to the depositary. The depositary passes along the payments it receives to its participants, which in turn pass the payments along to their customers who are the beneficial owners. The depositary and its participants do so under agreements they have made with one another or with their customers; they are not obligated to do so under the terms of the securities.

As a result, investors in a global security will not own securities directly. Instead, they will own beneficial interests in a global security, through a bank, broker or other financial institution that participates in the depositary's book-entry system or holds an interest through a participant. As long as the securities are issued in global form, investors will be indirect holders, and not holders, of the securities.

#### Street Name Holders

We may terminate global securities or issue securities that are not issued in global form. In these cases, investors may choose to hold their securities in their own names or in "street name." Securities held by an investor in street name would be registered in the name of a bank, broker or other financial institution that the investor chooses, and the investor would hold only a beneficial interest in those securities through an account he or she maintains at that institution.

For securities held in street name, we or any applicable trustee or depositary will recognize only the intermediary banks, brokers and other financial institutions in whose names the securities are registered as the holders of those securities, and we or any such trustee or depositary will make all payments on those securities to them. These institutions pass along the payments they receive to their customers who are the beneficial owners, but only because they agree to do so in their customer agreements or because they are legally required to do so. Investors who hold securities in street name will be indirect holders, not holders, of those securities.

#### Legal Holders

Our obligations, as well as the obligations of any applicable trustee or third party employed by us or a trustee, run only to the legal holders of the securities. We do not have obligations to investors who hold beneficial interests in global securities, in street name or by any other indirect means. This will be the case whether an investor chooses to be an indirect holder of a security or has no choice because we are issuing the securities only in global form.

For example, once we make a payment or give a notice to the holder, we have no further responsibility for the payment or notice even if that holder is required, under agreements with its participants or customers or by law, to pass it along to the indirect holders but does not do so. Similarly, we may want to obtain the approval of the holders to amend an indenture, to relieve us of the consequences of a default or of our obligation to comply with a particular provision of an indenture, or for other purposes. In such an event, we would seek approval only from the holders, and not the indirect holders, of the securities. Whether and how the holders contact the indirect holders is up to the holders.

#### Special Considerations for Indirect Holders

If you hold securities through a bank, broker or other financial institution, either in book-entry form because the securities are represented by one or more global securities or in street name, you should check with your own institution to find out:

- how it handles securities payments and notices;
- whether it imposes fees or charges;
- how it would handle a request for the holders' consent, if ever required;
- whether and how you can instruct it to send you securities registered in your own name so you can be a holder, if that is permitted in the future;

- how it would exercise rights under the securities if there were a default or other event triggering the need for holders to act to protect their interests; and
- if the securities are in book-entry form, how the depositary's rules and procedures will affect these matters.

#### Global Securities

A global security is a security that represents one or any other number of individual securities held by a depositary. Generally, all securities represented by the same global securities will have the same terms.

Each security issued in book-entry form will be represented by a global security that we issue to, deposit with and register in the name of a financial institution or its nominee that we select. The financial institution that we select for this purpose is called the depositary. Unless we specify otherwise in the applicable prospectus supplement, The Depository Trust Company, New York, New York, known as DTC, will be the depositary for all securities issued in book-entry form.

A global security may not be transferred to or registered in the name of anyone other than the depositary, its nominee or a successor depositary, unless special termination situations arise. We describe those situations below under “Special Situations When a Global Security Will Be Terminated.” As a result of these arrangements, the depositary, or its nominee, will be the sole registered owner and holder of all securities represented by a global security, and investors will be permitted to own only beneficial interests in a global security. Beneficial interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depositary or with another institution that does. Thus, an investor whose security is represented by a global security will not be a holder of the security, but only an indirect holder of a beneficial interest in the global security.

If the prospectus supplement for a particular security indicates that the security will be issued as a global security, then the security will be represented by a global security at all times unless and until the global security is terminated. If termination occurs, we may issue the securities through another book-entry clearing system or decide that the securities may no longer be held through any book-entry clearing system.

### Special Considerations For Global Securities

As an indirect holder, an investor’s rights relating to a global security will be governed by the account rules of the investor’s financial institution and of the depositary, as well as general laws relating to securities transfers. We do not recognize an indirect holder as a holder of securities and instead deal only with the depositary that holds the global security.

If securities are issued only as global securities, an investor should be aware of the following:

- an investor cannot cause the securities to be registered in his or her name, and cannot obtain non-global certificates for his or her interest in the securities, except in the special situations we describe below;
- an investor will be an indirect holder and must look to his or her own bank or broker for payments on the securities and protection of his or her legal rights relating to the securities, as we describe above;
- an investor may not be able to sell interests in the securities to some insurance companies and to other institutions that are required by law to own their securities in non-book-entry form;
- an investor may not be able to pledge his or her interest in the global security in circumstances where certificates representing the securities must be delivered to the lender or other beneficiary of the pledge in order for the pledge to be effective;
- the depositary’s policies, which may change from time to time, will govern payments, transfers, exchanges and other matters relating to an investor’s interest in the global security. We and any applicable trustee have no responsibility for any aspect of the depositary’s actions or for its records of ownership interests in the global security. We and the trustee also do not supervise the depositary in any way;
- the depositary may, and we understand that DTC will, require that those who purchase and sell interests in the global security within its book-entry system use immediately available funds, and your broker or bank may require you to do so as well; and
- financial institutions that participate in the depositary’s book-entry system, and through which an investor holds its interest in the global security, may also have their own policies affecting payments, notices and other matters relating to the securities. There may be more than one financial intermediary in the chain of ownership for an investor. We do not monitor and are not responsible for the actions of any of those intermediaries.

### Special Situations When A Global Security Will Be Terminated

In a few special situations described below, a global security will terminate and interests in it will be exchanged for physical certificates representing those interests. After that exchange, the choice of whether to hold securities directly or in street name will be up to the investor. Investors must consult their own banks or brokers to find out how to have their interests in securities transferred to their own names, so that they will be direct holders. We have described the rights of holders and street name investors above.

A global security will terminate when the following special situations occur:

- if the depositary notifies us that it is unwilling, unable or no longer qualified to continue as depositary for that global security and we do not appoint another institution to act as depositary within 90 days;

- if we notify any applicable trustee that we wish to terminate that global security; or
- if an event of default has occurred with regard to securities represented by that global security and has not been cured or waived.

The prospectus supplement may also list additional situations for terminating a global security that would apply only to the particular series of securities covered by the prospectus supplement. When a global security terminates, the depositary, and not we or any applicable trustee, is responsible for deciding the names of the institutions that will be the initial direct holders.

#### PLAN OF DISTRIBUTION

We may sell the securities to or through underwriters or dealers, through agents, or directly to one or more purchasers. A prospectus supplement or supplements will describe the terms of the offering of the securities, including, to the extent applicable:

- the name or names of any underwriters or agents;
- the purchase price of the securities and the proceeds we will receive from the sale;
- any over-allotment options under which underwriters may purchase additional securities from us;
- any agency fees or underwriting discounts and other items constituting agents' or underwriters' compensation;
  - any public offering price;
- any discounts or concessions allowed or reallocated or paid to dealers; and
- any securities exchange or market on which the securities may be listed.

We may distribute the securities from time to time in one or more transactions at:

- fixed price or prices, which may be changed from time to time;
- market prices prevailing at the time of sale;
- prices related to such prevailing market prices; or
- negotiated prices.

#### Underwriters

If we use underwriters for a sale of securities, the underwriters will acquire the securities for their own account. The underwriters may resell the securities in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale. The obligations of the underwriters to purchase the securities will be subject to the conditions set forth in the applicable underwriting agreement. We may offer the securities to the public through underwriting syndicates represented by managing underwriters or by underwriters without a syndicate. Subject to certain conditions, the underwriters will be obligated to purchase all the securities of the series offered if they purchase any of the securities of that series. We may change from time to time any public

offering price and any discounts or concessions the underwriters allow or reallow or pay to dealers. We may use underwriters with whom we have a material relationship. We will describe the nature of any such relationship in any applicable prospectus supplement naming any such underwriter. Only underwriters we name in the prospectus supplement are underwriters of the securities offered by the prospectus supplement.

We may provide agents and underwriters with indemnification against civil liabilities related to offerings under this prospectus, including liabilities under the Securities Act, or contribution with respect to payments that the agents or underwriters may make with respect to these liabilities.

Only underwriters named in the prospectus supplement are underwriters of the securities offered by the prospectus supplement.

In compliance with the guidelines of the Financial Industry Regulatory Authority, Inc. ("FINRA"), the maximum aggregate discounts, commissions, fees or other items constituting compensation to be received by any FINRA member or independent broker-dealer will not exceed 8% of the aggregate offering price of the securities offered pursuant to this prospectus and any applicable prospectus supplement. FINRA Rule 5110 requires FINRA member firms (unless an exemption applies) to satisfy the filing requirements of Rule 5110 in connection with the resale, on behalf of selling shareholders, of the securities on a principal or agency basis. NASD Notice to Members 88-101 states that in the event a selling shareholder intends to sell any of the shares registered for resale in this prospectus through a member of FINRA participating in a distribution of our securities, such member is responsible for insuring that a timely filing, if required, is first made with the Corporate Finance Department of FINRA and disclosing to FINRA the following:

- it intends to take possession of the registered securities or to facilitate the transfer of such certificates;
- the complete details of how the selling shareholders' shares are and will be held, including location of the particular accounts;
- whether the member firm or any direct or indirect affiliates thereof have entered into, will facilitate or otherwise participate in any type of payment transaction with the selling shareholders, including details regarding any such transactions; and
- in the event any of the securities offered by the selling shareholders are sold, transferred, assigned or hypothecated by any selling shareholder in a transaction that directly or indirectly involves a member firm of FINRA or any affiliates thereof, that prior to or at the time of said transaction the member firm will timely file all relevant documents with respect to such transaction(s) with the Corporate Finance Department of FINRA for review;

No FINRA member firm may receive compensation in excess of that allowable under FINRA rules, including Rule 5110, in connection with the resale of the securities by our shareholders, which total compensation may not exceed 8%.



## Agents

We may designate agents who agree to use their reasonable efforts to solicit purchases of our securities for the period of their appointment or to sell our securities on a continuing basis. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay the agent in the applicable prospectus supplement. Unless the prospectus supplement states otherwise, our agent will act on a best-efforts basis for the period of its appointment.

We may authorize agents or underwriters to solicit offers by certain types of institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

We may provide agents and underwriters with indemnification against civil liabilities related to this offering, including liabilities under the Securities Act, or contribution with respect to payments that the agents or underwriters may make with respect to these liabilities. Agents and underwriters may engage in transactions with, or perform services for, us in the ordinary course of business.

## Direct Sales

We may also sell securities directly to one or more purchasers without using underwriters or agents.

## Trading Markets and Listing of Securities

Unless otherwise specified in the applicable prospectus supplement, each class or series of securities will be a new issue with no established trading market, other than our common stock, which is currently listed on the NASDAQ Global Market. We may elect to list any other class or series of securities on any exchange or market, but we are not obligated to do so. It is possible that one or more underwriters may make a market in a class or series of securities, but the underwriters will not be obligated to do so and may discontinue any market making at any time without notice. We cannot give any assurance as to the liquidity of the trading market for any of the securities.

## Stabilization Activities

Any underwriter may engage in overallotment, stabilizing transactions, short covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Overallotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum. Short covering transactions involve purchases of the securities in the open market after the distribution is completed to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of these activities at any time.

## LEGAL MATTERS

The validity of the securities being offered by this prospectus will be passed upon for us by Aboudi & Brounstein Law Offices. If the validity of any securities is also passed upon by counsel any underwriters, dealers or agents, that counsel will be named in the prospectus supplement relating to that specific offering.

## EXPERTS

Our audited financial statements for the period from April 6, 2000 (inception) to December 31, 2004, have been audited by Lane Gorman Trubitt, PLLC., independent registered public accounting firm, as set forth in their report thereon included in our Annual Report on Form 10-K for the year ended December 31, 2010. Such financial statements have been incorporated in this prospectus by reference to our Annual Report on Form 10-K for the year ended December 31, 2010, in reliance on the authority of said firm as experts in auditing and accounting.

The financial statements of Zion Oil & Gas, Inc. (a development stage enterprise) as of December 31, 2010 and 2009, and for each of the years in the three-year period ended December 31, 2010 and for the period from April 6, 2000 (inception) to December 31, 2010, and management's assessment of the effectiveness of internal control over financial reporting as of December 31, 2010 have been incorporated by reference herein in reliance upon the report of Somekh Chaikin, a member of KPMG International and an independent registered public accounting firm and, with respect to the financial statements, Lane Gorman Trubitt, PLLC, independent registered public accounting firm, incorporated herein by reference, and upon the authority of said firms as experts in accounting and auditing. Such report contains an explanatory paragraph that states that Zion is in the development stage and has no operating revenue, limited capital resources and a loss from operations, all of which raise substantial doubt about Zion's ability to continue as a going concern. The financial statements do not include any adjustments that might result from the outcome of this uncertainty.

## WHERE YOU CAN FIND MORE INFORMATION

We are subject to the reporting requirements of the Exchange Act and file annual, quarterly and current reports, proxy statements and other information with the SEC. You may read and copy these reports, proxy statements and other information at the SEC's Public Reference Room at 100 F Street, N.E., Washington, DC 20549. You can request copies of these documents by writing to the SEC and paying a fee for the copying cost. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room. The SEC also maintains an Internet site that contains reports, proxy statements and other information about issuers, like us, who file electronically with the SEC. The address of the SEC's web site is <http://www.sec.gov>. Our common stock is listed for trading on the NASDAQ under the symbol "ZN."

We have filed a registration statement on Form S-3 with the SEC to register the securities that may be offered pursuant to this prospectus. This prospectus is part of that registration statement and, as permitted by the SEC's rules, does not contain all of the information included in the registration statement. For further information about us, this offering and our common stock, you may refer to the registration statement and its exhibits and schedules as well as the documents described herein or incorporated herein by reference. You can review and copy these documents, without charge, at the public reference facilities maintained by the SEC or on the SEC's website as described above, or you may obtain a copy from the SEC upon payment of the fees prescribed by the SEC.

## INCORPORATION OF CERTAIN INFORMATION 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 we incorporate by reference is considered to be an important part of this prospectus, and information that we file with the SEC at a later date will automatically add to, update or supersede this information.

We incorporate by reference into this prospectus the documents listed below:

- our Annual Report on Form 10-K for the year ended December 31, 2010 filed on March 16, 2011;
- our definitive proxy statement filed on May 9, 2011;
- our Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2011 filed on May 10, 2011;
- our Current Reports on Form 8-K filed on January 3, 2011, January 5, 2011 (as subsequently amended by Current Report on Form 8-K/A filed on January 6, 2011), January 7, 2011, January 12, 2011, January 18, 2011, January 21, 2011, February 4, 2011, February 18, 2011, March 4, 2011, March 11, 2011, March 18, 2011, March 22, 2011, April 1, 2011, April 6, 2011, April 15, 2011, April 21, 2011, April 29, 2011 and May 13, 2011;
- the description of our common stock in our registration statement on Form 8-A filed with the SEC on December 29, 2006, including any amendments or reports filed for the purpose of updating such description; and
- all future filings that we make with the SEC under Section 13(a), 13(c), 14, or 15(d) of the Exchange Act after the date of filing of the registration statement on Form S-3 of which this prospectus is a part and prior to the termination or completion of any offering of securities under this prospectus and all applicable prospectus supplements (except, in each case, for information contained in any such filing that is furnished and not "filed" under the Exchange Act), which filings will be deemed to be incorporated by reference in this prospectus, as supplemented by the applicable prospectus supplement, and to be a part hereof from the respective dates of such filings.

We will provide without charge to each person, including any beneficial owner, to whom this prospectus is delivered, upon written or oral request of such person, a copy of any or all of the information that is incorporated by reference in this prospectus. Requests for such documents should be directed to: Shareholder Relations, Zion Oil & Gas, Inc., 6510 Abrams Rd., Suite 300, Dallas, TX 75231.

This prospectus is part of a registration statement on Form S-3 that we filed with the SEC. That registration statement contains more information than this prospectus regarding us and our common stock, including certain exhibits and schedules. You can obtain a copy of the registration statement from the SEC at the address listed above or from the SEC's Internet website.

You should rely only on the information provided in and incorporated by reference into this prospectus or any prospectus supplement. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus or any prospectus supplement is accurate as of any date other than the date on the front cover of these documents.

\$150,000,000

ZION OIL & GAS, INC.

Common Stock  
Debt Securities  
Warrants,  
Units and  
Rights

PROSPECTUS

\_\_\_\_, 2011

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## PART II

## INFORMATION NOT REQUIRED IN PROSPECTUS

## Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses to be paid by us in connection with the sale of the shares of common stock being registered hereby. All amounts are estimates, except for the SEC registration fee.

SEC registration fee	\$ 17,415
Transfer agent's and trustee's fees and expenses	10,000
Printing and engraving expenses	10,000
Accounting fees and expenses	38,000
Legal fees and expenses	30,000
Miscellaneous expenses	15,000
<b>Total</b>	<b>\$ 120,415</b>

## Item 15. Indemnification of Directors and Officers

Section 145 of the Delaware General Corporation Law and our certificate of incorporation and bylaws contain provisions for indemnification of our officers and directors, and under certain circumstances, our employees and other persons. Our bylaws require us to indemnify such persons to the fullest extent permitted by Delaware law. Each such person will be indemnified in any proceeding if such person acted in good faith and in a manner that such person reasonably believed to be in, or not opposed to, our best interests. The indemnification would cover expenses, including attorney's fees, judgments, fines and amounts paid in settlement. Our bylaws also provide that we may purchase and maintain insurance on behalf of any of our present or past directors or officers insuring against any liability asserted against such person incurred in their capacity as a director or officer or arising out of such status, whether or not we would have the power to indemnify such person.

We have no other indemnification provisions in our certificate of incorporation, bylaws or otherwise specifically providing for indemnification of directors, officers and controlling persons against liability under the Securities Act.

## Item 16. Exhibits.

See the Exhibit Index on page II-4, which is incorporated into this registration statement by reference.

## Item 17. Undertakings.

The undersigned registrant hereby undertakes:

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

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

(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 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(iii) To include any material information with respect to the plan of distribution not previously disclosed in this registration statement or any material change to such information in this registration statement.

Provided, however, that the undertakings set forth in paragraphs (1)(i), (1)(ii) and (1)(iii) above do not apply if the registration statement is on Form S-3 or Form F-3 and the information required to be included in a post-effective amendment by those paragraphs is contained in 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 the registration statements or is contained in a form of prospectus filed pursuant to Rule 424(b) that is a part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof;

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for 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 required to be filed 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.

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

(6) That: (i) for purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of the registration statement in reliance upon Rule 430A and contained in the form of prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of the registration statement as of the time it was declared effective; and (ii) for the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus 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.

(7) 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 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.

(8) To file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the SEC under Section 305(b)(2) of the Act.

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 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 Act and will be governed by the final adjudication of such issue.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Dallas, State of Texas, on May 25, 2011.

ZION OIL & GAS, INC.

By: /s/ Richard Rinberg  
 Name: Richard Rinberg  
 Title: Chief Executive Officer  
 (Principal Executive Officer)

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed below by the following persons in the capacities and on the dates indicated:

Signature	Title	Date
/s/ John M. Brown John M. Brown	Chairman of the Board of Directors	May 25, 2011
/s/ Richard J. Rinberg Richard J. Rinberg	Chief Executive Officer and Director (Principal Executive Officer)	May 25, 2011
/s/ William L. Ottaviani William L. Ottaviani	Chief Operating Officer and Director	May 25, 2011
/s/ Victor G. Carrillo Victor G. Carrillo	Executive Vice President and Director	May 25, 2011
/s/ Paul Oroian Paul Oroian	Director	May 25, 2011
/s/ Yehezkel Druckman Yehezkel Druckman	Director	May 25, 2011
/s/ Forrest A. Garb Forrest A. Garb	Director	May 25, 2011
/s/ Julian Taylor Julian Taylor	Director	May 25, 2011
/s/ Marc Singer Marc Singer	Director	May 25, 2011
/s/ Robert Render	Director	May 25, 2011

Robert Render

/s/ Ilan Sheena  
Ilan Sheena

Chief Financial Officer

May 25, 2011

/s/ Patti Beals  
Patti Beals

Chief Accounting Officer

May 25, 2011

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EXHIBIT INDEX

Exhibit Number	Description
1.1	Form of Underwriting Agreement (1)
3.1-I	Articles of Incorporation (incorporated herein by reference to the Company's Quarterly Report on Form 10-Q, for the quarter ended June 30, 2009, filed with the SEC on August 14, 2009, Exhibits 3.1 and 3.1.2)
3.2	Amended and Restated Bylaws of Zion Oil & Gas, Inc. (incorporated herein by reference to Exhibit 3.2 to the Company's Form 10-KSB for the year ended December 31, 2007 as filed with the SEC on March 28, 2008)
4.1	Specimen Common Stock Certificate (incorporated herein by reference to Exhibit 4.1 to the Company's Registration Statement on Form SB-2 as filed with the SEC on January 25, 2006)
4.2	Form of Indenture for Debt Securities (1)
4.3	Form of Notes (1)
4.4	Form of Warrant (1)
4.5	Form of Unit Agreement (1)
4.6	Form of Rights Certificate (1)
5.1	Opinion of Aboudi & Brounstein
23.1	Consent of Aboudi & Brounstein (included in Exhibit 5.1).
23.2	Consent of Lane Gorman Trubitt, PLLC
23.3	Consent of Somekh Chaikin, independent registered public accounting firm, a member of KPMG International
25.1	Form T-1 Statement of Eligibility of Trustee for Indenture under the Trust Indenture Act of 1939 (1)

(1)To the extent applicable, to be filed by an amendment to this registration statement or as an exhibit to a report pursuant to Section 13(a), 13(c) or 15(d) of the Exchange Act.