

GeoMet, Inc.
 Form 3
 December 21, 2015

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | | |
|---|---------|----------|--------------------------------------|--|--|
| 1. Name and Address of Reporting Person * | | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Yorktown VIII Associates LLC | | | (Month/Day/Year) | GeoMet, Inc. [GMET] | |
| (Last) | (First) | (Middle) | | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| 410 PARK AVENUE, 19TH FLOOR | | | | (Check all applicable) | |
| (Street) | | | | <input type="checkbox"/> Director | <input checked="" type="checkbox"/> 10% Owner |
| NEW YORK, NY 10022 | | | | <input type="checkbox"/> Officer | <input type="checkbox"/> Other |
| (City) | (State) | (Zip) | | (give title below) | (specify below) |
| | | | | | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| | | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| | | | | | <input type="checkbox"/> Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock | 12,437,072 ⁽¹⁾ | I | See footnote ⁽²⁾ |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative | 5. Ownership Form of Derivative Security: | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|---|---|---|
|--|--|---|---|---|---|

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| | | | | | |
|---------------------|--------------------|-------|----------------------------------|----------|--|
| Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) |
|---------------------|--------------------|-------|----------------------------------|----------|--|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Yorktown VIII Associates LLC 410 PARK AVENUE 19TH FLOOR NEW YORK, NY 10022 | ^ | ^ X | ^ | ^ |

Signatures

/s/ Robert A. Signorino, Managing Member of Reporting Person 12/21/2015

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(b)(v).
 - ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- The reporting entity disclaims beneficial ownership of these securities except to the extent of its pecuniary interest therein, and the
- (1) inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of all the reported shares for Section 16 or any other purpose.
- These securities are owned directly by North Shore Energy, LLC. The reporting entity is the general partner of Yorktown VIII Company
- (2) LP, the general partner of Yorktown Energy Partners VIII, L.P, a member of North Shore Energy, LLC that holds the right to increase the size of North Shore Energy LLC's board of managers and appoint a majority of the board members.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.