

Gastar Exploration Inc.  
Form SC 13G  
May 20, 2016

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

**SCHEDULE 13G**  
**Information Statement Pursuant to Rules 13d-1 and 13d-2**  
**Under the Securities Exchange Act of 1934**  
**(Amendment No.    )\***

**Gastar Exploration Inc.**  
**(Name of Issuer)**  
**Common Stock**  
**(Title of Class of Securities)**  
**36729W202**  
**(CUSIP Number)**  
**May 12, 2016**  
**(Date of Event Which Requires Filing of this Statement)**

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ( Act ) or otherwise subject to the liabilities of that section of the Act, but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP Number 36729W202

**1** Names of Reporting Persons

Dan H. Wilks

**2** Check the Appropriate Box if a Member of a Group (*See Instructions*)

(a)  (b)

**3** SEC Use Only

**4** Citizenship or Place of Organization

United States

**5** Sole Voting Power

NUMBER OF

SHARES **6** 0  
Shared Voting Power

BENEFICIALLY

OWNED BY **7** 7,390,511  
EACH Sole Dispositive Power

REPORTING

PERSON **8** 0  
Shared Dispositive Power

WITH

**9** 7,390,511  
Aggregate Amount Beneficially Owned by Each Reporting Person

**10** 7,390,511  
Check if the Aggregate Amount in Row (9) Excludes Certain Shares (*See Instructions*)

**11** Percent of Class Represented by Amount in Row (9)

**12** 5.6%<sup>1</sup>  
Type of Reporting Person (*See Instructions*)

IN

<sup>1</sup> Based on 131,729,051 shares of Common Stock of the Issuer issued and outstanding, as set forth in the Issuer's Prospectus Supplement dated May 12, 2016 and filed with the SEC on May 13, 2016.

CUSIP Number 36729W202

**1** Names of Reporting Persons

Staci Wilks

**2** Check the Appropriate Box if a Member of a Group (*See Instructions*)

(a)  (b)

**3** SEC Use Only

**4** Citizenship or Place of Organization

United States

**5** Sole Voting Power

NUMBER OF

SHARES **6** 0  
Shared Voting Power

BENEFICIALLY

OWNED BY **7** 7,390,511  
EACH Sole Dispositive Power

REPORTING

PERSON **8** 0  
Shared Dispositive Power

WITH

**9** 7,390,511  
Aggregate Amount Beneficially Owned by Each Reporting Person

**10** 7,390,511  
Check if the Aggregate Amount in Row (9) Excludes Certain Shares (*See Instructions*)

**11** Percent of Class Represented by Amount in Row (9)

**12** 5.6%<sup>1</sup>  
Type of Reporting Person (*See Instructions*)

IN

<sup>1</sup> Based on 131,729,051 shares of Common Stock of the Issuer issued and outstanding, as set forth in the Issuer's Prospectus Supplement dated May 12, 2016 and filed with the SEC on May 13, 2016.

CUSIP Number 36729W202

**1** Names of Reporting Persons

Wilks Brothers, LLC

**2** Check the Appropriate Box if a Member of a Group (*See Instructions*)

(a)  (b)

**3** SEC Use Only

**4** Citizenship or Place of Organization

Texas

**5** Sole Voting Power

NUMBER OF

SHARES 100

**6** Shared Voting Power

BENEFICIALLY

OWNED BY 0

EACH **7** Sole Dispositive Power

REPORTING

PERSON 100  
**8** Shared Dispositive Power

WITH

0

**9** Aggregate Amount Beneficially Owned by Each Reporting Person

100

**10** Check if the Aggregate Amount in Row (9) Excludes Certain Shares (*See Instructions*)

**11** Percent of Class Represented by Amount in Row (9)

**12** 0.00008%<sup>1</sup>  
Type of Reporting Person (*See Instructions*)

OO

<sup>1</sup> Based on 131,729,051 shares of Common Stock of the Issuer issued and outstanding, as set forth in the Issuer's Prospectus Supplement dated May 12, 2016 and filed with the SEC on May 13, 2016.

**Item 1.**

(a) Name of Issuer: Gastar Exploration Inc.

(b) Address of Issuer's Principal Executive Offices  
1331 Lamar Street, Suite 650

Houston, TX 77010

**Item 2.**

(a) Name of Persons Filing:

This Schedule 13G is being jointly filed by Dan H. Wilks, Staci Wilks, and Wilks Brothers, LLC.

(b) Address of Principal Business Office or, if None, Resident:

Dan H. Wilks

17010 Interstate 20

Cisco, TX 76437

Staci Wilks

17010 Interstate 20

Cisco, TX 76437

Wilks Brothers, LLC

17010 Interstate 20

Cisco, TX 76437

(c) Citizenship:

Dan H. Wilks is a citizen of the United States of America.

Staci Wilks is a citizen of the United States of America.

Wilks Brothers, LLC is a limited liability company organized in the State of Texas.

(d) Title of Class of Securities: Common stock, par value \$0.01 per share.

(e) CUSIP Number: 36729W202

**Item 3. If this statement is filed pursuant to §§ 240.13d-1(b), or 240.13d-2(b) or (c), check whether the person filing is a:**

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o);
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
- (e)  An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 240.13d-1(b)(1)(ii)(G);
- (h)  A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act (15 U.S.C. 80a-3);
- (j)  A non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J);
- (k)  Group, in accordance with § 240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution: .

**Item 4. Ownership.**

The information in items 1 through 11 on the cover pages to this Schedule 13G is hereby incorporated by reference.

**Item 5. Ownership of Five Percent or Less of a Class.**

If this statement is being filed to report the fact that as of the date hereof any of the reporting persons has ceased to be the beneficial owner of more than five percent of the class of securities, check the following "":

**Item 6. Ownership of More than Five Percent on Behalf of Another Person.**

Not applicable.

**Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.**

Not applicable.

**Item 8. Identification and Classification of Members of the Group.**

See Exhibit 99.1

**Item 9. Notice of Dissolution of Group.**

Not applicable.

**Item 10. Certifications.**

Not applicable.

**SIGNATURES**

After reasonable inquiry and to the best of each of the undersigned's knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: May 20, 2016

/s/ Dan H. Wilks  
Dan H. Wilks

/s/ Staci Wilks  
Staci Wilks

**WILKS BROTHERS, LLC**

By: /s/ Dan H. Wilks  
Name: Dan H. Wilks  
Title: Chief Executive Officer

**EXHIBIT INDEX**

Exhibit No.	Description
99.1	Identification of Members of the Group
99.2	Joint Filing Agreement dated May 20, 2016.