

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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| | | |
|--|---|--|
| 1. Name and Address of Reporting Person* <u>HENSLEY PAUL D</u> (Last) (First) (Middle) <u>3005 N. 15TH STREET</u> (Street) <u>BROKEN ARROW OK 74012</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>NATURAL GAS SERVICES GROUP INC</u> [NGS] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below) |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>06/06/2008</u> | |
| | | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|---------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | | | | | | | 303,834 | D | | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.1 | 303,734 | D | |
| Common Stock | 06/06/2008 | | S | | 300 | D | \$28.13 | 303,434 | D | |
| Common Stock | 06/06/2008 | | S | | 200 | D | \$28.25 | 303,234 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.37 | 303,134 | D | |
| Common Stock | 06/06/2008 | | S | | 200 | D | \$28.4 | 302,934 | D | |
| Common Stock | 06/06/2008 | | S | | 500 | D | \$28.45 | 302,434 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.48 | 302,334 | D | |
| Common Stock | 06/06/2008 | | S | | 400 | D | \$28.52 | 301,934 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.55 | 301,834 | D | |
| Common Stock | 06/06/2008 | | S | | 200 | D | \$28.61 | 301,634 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.62 | 301,534 | D | |
| Common Stock | 06/06/2008 | | S | | 300 | D | \$28.64 | 301,234 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.65 | 301,134 | D | |
| Common Stock | 06/06/2008 | | S | | 200 | D | \$28.66 | 300,934 | D | |
| Common Stock | 06/06/2008 | | S | | 300 | D | \$28.67 | 300,634 | D | |
| Common Stock | 06/06/2008 | | S | | 134 | D | \$28.71 | 300,500 | D | |
| Common Stock | 06/06/2008 | | S | | 500 | D | \$28.74 | 300,000 | D | |
| Common Stock | 06/06/2008 | | S | | 100 | D | \$28.86 | 299,900 | D | |
| Common Stock | 06/06/2008 | | S | | 300 | D | \$28.87 | 299,600 | D | |
| Common Stock | 06/06/2008 | | S | | 9,600 | D | \$28.93 | 290,000 | D | |

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|---|--|--|---|--|
| | | | | Code | V | (A) | (D) | | | | | |

Explanation of Responses:

/s/ Paul D. Hensley

06/10/2008

** Signature of Reporting Person

Date

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

* If the form is filed by more than one reporting person, see Instruction 4 (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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.