

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

OMB APPROVAL	
OMB Number:	3235-0104
Estimated average burden hours per response:	0.5

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

1. Name and Address of Reporting Person* <u>Barney Charles L</u> <hr/> (Last) (First) (Middle) 952 ECHO LANE, SUITE 364 <hr/> (Street) HOUSTON TX 77024 <hr/> (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 08/04/2004	3. Issuer Name and Ticker or Trading Symbol <u>NATURAL GAS SERVICES GROUP INC [ NGS ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person <input checked="" 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	549,574	I	By CBarney Investments, Ltd.
Common Stock	105,000	I	By Mark X Energy Company

**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 Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
Warrants	10/21/2002	10/20/2006	Common Stock	47,000	6.25	I	By CBarney Investments, Ltd.
Warrants	10/21/2002	10/20/2006	Common Stock	168,500	6.25	I	By Mark X Energy Company

1. Name and Address of Reporting Person* <u>Barney Charles L</u> <hr/> (Last) (First) (Middle) 952 ECHO LANE, SUITE 364 <hr/> (Street) HOUSTON TX 77024 <hr/> (City) (State) (Zip)
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1. Name and Address of Reporting Person* <u>Mark X Energy CO</u> <hr/> (Last) (First) (Middle) 952 ECHO LANE, SUITE 364 <hr/> (Street) HOUSTON TX 77024 <hr/> (City) (State) (Zip)
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1. Name and Address of Reporting Person* <u>CBarney Investments, Ltd.</u> <hr/> (Last) (First) (Middle) 952 ECHO LANE, SUITE 364 <hr/> (City) (State) (Zip)
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(Street)  
HOUSTON TX 77024

(City) (State) (Zip)

**Explanation of Responses:**

[Telisa Webb Schelin as  
attorney-in-fact for Charles L. Barney](#) [08/13/2004](#)

[Telisa Webb Schelin as  
attorney-in-fact for Mark X  
Energy Company](#) [08/13/2004](#)

[Telisa Webb Schelin as  
attorney-in-fact for CBarney  
Investments, Ltd.](#) [08/13/2004](#)

\*\* 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 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).

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.**