FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, D.C. 20549

| OMB APPROVAL |
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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* BROWN PAUL H | | | | | | | | 2. Issuer Name and Ticker or Trading Symbol DAWSON GEOPHYSICAL CO [DWSN] | | | | | | | | | olicable) | g Person(s) to Is | |
|--|---|------------------------------|--|---|--|---|---|--|-----------|-----------------|--|--------------------|---|------------------------------|------------------------|---|--|---|--|
| (Last) (First) (Middle) 1918 ROSE ARBOR | | | | | | | 3. Date of Earliest Transaction (Month/Day/Year) 09/02/2010 | | | | | | | | | Office below | er (give title w) | Other below) | (specify |
| (Street) SUGARLAND TX 77479 (City) (State) (Zip) | | | | | | _ 4. If | Line) X F | | | | | | | | | Form | dual or Joint/Group Filing (Check Applicable 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. Transac Date (Month/Date) | | | | | | 2A. Deemed Execution Date, if any (Month/Day/Year) | | 3. Transa Code (I 8) | | | Securities Acquired (A) or posed Of (D) (Instr. 3, 4 an | | | Secur Benef Owne | icially d Following | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership | | |
| | | | | | | | | | | Code | v | Amount | (A) o | r Pric | e | | rted action(s) 3 and 4) | | (Instr. 4) |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value | | | | | | | | | | S | | 25 | D | \$24 | \$24.5292 | | 3,603 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value | | | | | | | | | | S | | 75 | D | \$24 | 1.4395 | | 3,528 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value 09/02/2 | | | | | | 2010 | 010 | | | S | | 100 | D | \$24 | \$24.4695 | | 3,428 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value 09/02/3 | | | | | | 2010 | | | | S | | 200 | D | \$24 | \$24.4096 | | 3,228 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value 09/02/2 | | | | | | 2010 | 010 | | | S | | 400 | D | \$24 | \$24.4296 | | 2,828 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value 09/02/2 | | | | | | 2010 | | | | S | | 100 | D | \$24 | \$24.4695 | | 2,728 | D | |
| Dawson Geophysical Company-Common Stock \$0.33 1/3 par value 09/02/20 | | | | | | 2010 | 010 | | | S | | 100 | D | \$24 | \$24.4795 | | 2,628 | 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. Conversi or Exerci Price of Derivativ Security | rsion rcise of tive | 3. Transaction Date (Month/Day/Year) | 3A. Deer Execution if any (Month/I | | | ransaction | | 5. Number | | Exerc ion Da Day/Y | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) | | Deri Seci (Inst | r. 5) Securities r. 5) Beneficial Owned Following Reported | derivative Securities Beneficially Owned Following Reported Transaction(| Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
| | | | | | | Code | v | (A) | (D) | Date Exercis | able | Expiration Date | Title | or Number of Shares | er | | | | |

Explanation of Responses:

Paul H. Brown

09/03/2010

** Signature of Reporting Person

Date

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

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.

^{*} 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).