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SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C 20549

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934

Date of Report: (Date of earliest event reported): August 23, 2004

DAWSON GEOPHYSICAL COMPANY

(Exact name of registrant as specified in its charter)

TEXAS

2-71058

75-0970548

(State of Incorporation)

(Commission File Number)

(IRS Employer
Identification No.)

508 W WALL, SUITE 800
MIDLAND, TX 79701

(Address of Principle Executive Officers)

432/684-3000

(Registrant's telephone number, including area code)

(Former name or former address, if changed since last report)

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ITEM 8.01 The Registrant has issued a press release announcing its intention to field an additional seismic data acquisition crew.

ITEM 9.01 FINANCIAL STATEMENTS AND EXHIBITS

(c) Exhibits

99.1 - Press Release dated August 23, 2004.

SIGNATURE

Pursuant to the requirements of the Securities and Exchange Act of 1934, the registrant duly caused this report to be signed by the undersigned hereunto duly authorized.

Date: August 23, 2004

DAWSON GEOPHYSICAL COMPANY

By: /s/ L. Decker Dawson

L. Decker Dawson
CHIEF EXECUTIVE OFFICER

By: /s/ Christina W. Hagan

Christina W. Hagan
CHIEF FINANCIAL OFFICER

EXHIBIT INDEX

EXHIBIT NO. -----	EXHIBIT -----
99.1	Press Release dated August 23, 2004.

DAWSON GEOPHYSICAL PLANS ADDITIONAL EXPANSION

MIDLAND, Texas, August 23, 2004/PRNewswire/-The following was released by Dawson Geophysical Company (NASDAQ DWSN-news)

Dawson Geophysical Company (NASDAQ DWSN) today announced its intention to field its ninth high resolution seismic data acquisition crew in early September, 2004. The Company's eighth crew, planning for which was announced on June 3, 2004, was deployed July 12, 2004. The Company is responding to increased client requirements emanating from increased prices received for crude oil and natural gas.

Founded in 1952, Dawson Geophysical Company acquires and processes 2-D, 3-D and multi-component seismic data used in analyzing subsurface geologic conditions for the potential of oil and natural gas accumulation. Dawson's clients-major and intermediate-sized oil and gas companies and independent oil operators-retain exclusive rights to the information obtained.

The Company operates highly mobile, land-based acquisition crews throughout the lower 48 states. Data processing is performed by geophysicists at Dawson's computer center in the Midland, Texas headquarters. The Company also provides data processing services through its Houston, Texas office.

In accordance with the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995, Dawson Geophysical Company cautions that statements in this press release which are forward-looking and which provide other than historical information involve risks and uncertainties that may impact the Company's actual results of operations. Please see the Company's Form 10-K for the fiscal year ended September 30, 2003 for a more complete discussion of such risk factors.

Contact:

L. Decker Dawson or Christina W. Hagan, both of Dawson Geophysical Company
1-432-684-3000