UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

FORM 11-K

ANNUAL REPORT PURSUANT TO SECTION 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

(Mark One)

	[x]	Annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934
(No	fee requ	uired, effective October 7, 1996)
		For the fiscal year ended DECEMBER 31, 2003
		0r
	[]	Transition report pursuant to Section 15(d) of the Securities Exchange Act of 1934

(No fee required)

For	the	transition	period	from	to
			•		

Commission file number 1-12317

- A. Full title of the plan and the address of the plan, if different from that of the issuer named below NATIONAL-OILWELL RETIREMENT AND THRIFT PLAN
- B. Name of issuer of the securities held pursuant to the plan and the address of its principal executive office

 NATIONAL-OILWELL, INC.

 10000 RICHMOND AVENUE

 6TH FLOOR

 HOUSTON, TEXAS 77042-4200

REQUIRED INFORMATION

The National-Oilwell Retirement and Thrift Plan (the Plan) is subject to the requirements of the Employee Retirement Income Security Act of 1974 (ERISA).

ITEM 4. In lieu of the requirements of Items 1, 2, and 3 of this Form 11-K, the following financial statements of the Plan, notes thereto, and the Report of Independent Registered Public Accounting Firm thereon are being filed in this Report:

- (a) Report of Independent Registered Public Accounting Firm
- (b) Statements of Net Assets Available for Benefits December 31, 2003 and 2002
- (c) Statement of Changes in Net Assets Available for Benefits Year ended December 31, 2003; and
- (d) Notes to Financial Statements

The Consent of Independent Registered Public Accounting Firm to the incorporation by reference of the foregoing financial statements in the Registration Statement on Form S-8 (No. 333-46459) pertaining to the Plan is being filed as Exhibit 23.1 to this Report.

NATIONAL-OILWELL RETIREMENT AND THRIFT PLAN

FINANCIAL STATEMENTS AND SCHEDULES

DECEMBER 31, 2003

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The Benefit Plan Administrative Committee National-Oilwell Retirement and Thrift Plan

We have audited the accompanying statements of net assets available for benefits of the National-Oilwell Retirement and Thrift Plan as of December 31, 2003 and 2002, and the related statement of changes in net assets available for benefits for the year ended December 31, 2003. These financial statements are the responsibility of the Plan's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan at December 31, 2003 and 2002, and the changes in its net assets available for benefits for the year ended December 31, 2003, in conformity with U.S. generally accepted accounting principles.

Our audits were performed for the purpose of forming an opinion on the financial statements taken as a whole. The accompanying supplemental schedule of assets (held at end of year) as of December 31, 2003, is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. This supplemental schedule is the responsibility of the Plan's management. The supplemental schedule has been subjected to the auditing procedures applied in our audits of the financial statements and, in our opinion, is fairly stated in all material respects in relation to the financial statements taken as a whole.

/s/ Ernst & Young LLP

Houston, TX June 23, 2004

Statements of Net Assets Available for Benefits

	DECEMBER 31	
	2003	2002
ASSETS		
Receivables:		
Accrued income	\$	\$ 621
Sales not yet settled	427,313	
Total receivables	427,313	621
Investments	139, 282, 854	111,825,776
Total assets LIABILITIES	139,710,167	111,826,397
Cash overdraft	227,392	27,016
Purchases not yet settled	104,791	,
Total liabilities	332,183	27,016
Net assets available for benefits	\$139,377,984 ========	\$111,799,381 ========

See accompanying notes.

Statement of Changes in Net Assets Available for Benefits

Year ended December 31, 2003

Employer contributions Participant contributions Participant rollovers Investment income Net appreciation in fair value of investments	\$ 9,100,437 7,731,905 616,830 816,591 12,967,187
Total additions Deductions:	31,232,950
Benefits paid to participants Corrective distributions Administrative expenses	8,765,086 4,897 63,498
Total deductions Other changes in net assets:	8,833,481
Transfers from other qualified plans	5,179,134
Net increase Net assets available for benefits at:	27,578,603
Beginning of year	111,799,381
End of year	\$139,377,984 =======

See accompanying notes.

Additions:

Notes to Financial Statements

December 31, 2003

1. DESCRIPTION OF PLAN

The following description of the National-Oilwell Retirement and Thrift Plan (the "Plan") is provided for general information only. Participants should refer to the Summary Plan Description for a more complete description of the Plan's provisions, a copy of which is available from National-Oilwell, L.P. (the "Company").

GENERAL

The Plan was established effective April 1, 1987 for the benefit of the employees of the Company. The Plan is a defined contribution plan covering substantially all domestic employees who have completed at least six months of service. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974 ("ERISA").

Effective November 1, 2003, the Company merged the Hydralift Holding Inc. 401(k) Retirement Plan and Trust into the Plan. Net assets of approximately \$4,447,300 were transferred into the Plan as a result of the merger.

Effective December 1, 2003, the Company merged the Hydralift Inc. 401(k) Plan and Trust into the Plan. Net assets of approximately \$731,800 were transferred into the Plan as a result of the merger.

CONTRIBUTIONS

Participants may make both pretax and after-tax contributions to the Plan. Effective January 1, 2003, the Plan was amended to allow pretax salary deferral contributions of 1% to 100% (less any after-tax contributions, required withholdings, or other elected deductions) of compensation, subject to certain Internal Revenue Service ("IRS") limitations. After-tax contributions remain at 1% to 18% of compensation. However, combined pretax and after-tax contributions, required withholdings, and other elected deductions cannot exceed 100% of compensation. Prior to January 1, 2003, the minimum contribution was 1% of compensation and the maximum contribution was 18% (both pretax and after-tax combined). The Company matches 100% of the first 3% and 50% of the next 2% of each participant's contribution. The Company's discretionary contribution to the Plan, the Employer Retirement Contribution ("Retirement"), is allocated to

Notes to Financial Statements (continued)

participants' accounts based on their years of service. Each participant may direct the trustee to invest both the participant's and the Company's contributions in one or more of the investment options offered by the Plan.

VESTING

Participants are immediately vested in participant and employer contributions and the related earnings which have been credited to their accounts.

BENEFIT PAYMENTS

The Plan pays lump-sum benefits on retirement, disability, death, or termination of employment. In-service withdrawals, subject to certain rules and restrictions, may also be made from certain account balances.

PARTICIPANT LOANS

The Plan includes a loan provision that permits participants to borrow up to the lesser of \$50,000 or 50% of the total value of their Plan assets. The loans are payable in principal installments plus interest at prime plus 1% through payroll deductions and are due in one to five-year terms.

ADMINISTRATIVE EXPENSES

Certain administrative expenses are paid from the Plan's assets. All other Plan expenses are paid by the Company.

PLAN TERMINATION

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue contributions at any time and to terminate the Plan subject to the provisions of ERISA. Participants are 100% vested in their accounts in any event. Assets would be distributed to participants as prescribed by ERISA.

2. SUMMARY OF ACCOUNTING POLICIES

BASIS OF ACCOUNTING

The accompanying financial statements of the Plan have been prepared on the accrual basis of accounting in accordance with U.S. generally accepted accounting principles. Benefit payments to participants are recorded upon distribution.

Notes to Financial Statements (continued)

2. SUMMARY OF ACCOUNTING POLICIES (CONTINUED)

USE OF ESTIMATES

The preparation of financial statements in conformity with U.S. generally accepted accounting principles requires management to make estimates that affect the reported amounts in the financial statements and accompanying notes and schedule. Actual results could differ from those estimates.

INVESTMENT VALUATION AND INCOME RECOGNITION

Money market funds are stated at cost, which approximates fair value. Investments in common stock and mutual funds are stated at fair value, based on quotations obtained from national securities exchanges. Investments in common collective trust funds are based on quoted market values as determined by the issuer based on the fair value of the underlying investments. Participant loans are stated at cost, which approximates fair value.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date.

RISK AND UNCERTAINTIES

The Plan provides for investments in various securities which, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits and participant account balances.

3. INVESTMENTS

Effective October 1, 2003, Wachovia Bank, N.A. ("Wachovia"), was named trustee of the Plan. Prior to October 1, 2003, American Express Trust Company ("AETC") served as the Plan's trustee. Due to certain contractual restrictions, AETC continues to hold the American Express Trust Income Fund II at December 31, 2003. All other Plan assets are held by Wachovia.

Notes to Financial Statements (continued)

3. INVESTMENTS (CONTINUED)

Individual investments that represent 5% or more of the Plan's net assets are as follows:

	DECEMBER 31	
	2003	2002
American Express Trust Income Fund II	\$25,307,741	\$47,753,497
National-Oilwell common stock Enhanced Stock Market Fund	9,477,778 16,239,005	9,265,052
Vanguard Growth Index Fund	14,488,029	
Vanguard Total International Stock Fund Vanguard Balanced Index Fund	10,451,540 8,169,082	
Gartmore Morley Stable Value Fund	26,941,954	
American Express Trust Equity Index Fund II AIM Balanced Fund		12,116,031 6,435,757
AXP Growth Fund		11,052,635
Janus Worldwide Fund		7,030,521

During 2003, the Plan's investments (including investments bought, sold, and held during the year) appreciated in value as follows:

Common stock	\$ 328,930
Common collective trust funds	4,907,061
Mutual funds	7,731,196
Net appreciation	\$12,967,187 =======

4. INCOME TAX STATUS

The Plan has received a determination letter from the IRS dated September 8, 2003, stating that the Plan is qualified under Section 401(a) of the Internal Revenue Code (the "IRC") and, therefore, the related trust is exempt from taxation. Subsequent to this determination by the IRS, the Plan was amended. Once qualified, the Plan is required to operate in conformity with the IRC to maintain its qualification. The Plan sponsor has indicated that it will take the necessary steps, if any, to bring the Plan's operations into compliance with the IRC.

Schedule H, Line 4(i) - Schedule of Assets (Held At End of Year)

December 31, 2003 EIN: 76-0488987 PN: 001

DESCRIPTION OF INVESTMENT		CURRENT VALUE
423,782 shares of common stock	\$	9,477,778
Enhanced Stock Market Fund		16,239,005
Dreyfus Small Cap Stock Index Fund		881,438
Dreyfus Midcap Index Fund		1,010,788
Principal Investors Midcap Value		
Institutional Fund		598,491
Principal Investors Midcap Growth		
Institutional Fund		6,045,869
Vanguard Value Index Fund		6,065,538
Vanguard Growth Index Fund		14,488,029
Vanguard Small Cap Value Index Fund		879,852
Vanguard Small Cap Growth Index Fund		910,627
Vanguard Total International Stock Index		
Fund		10,451,540
Vanguard Balanced Index Fund		8,169,082
Vanguard Index Fund		6,213,329
Gartmore Morley Stable Value Fund		26,941,954
Evergreen Money Market Fund		93,425
American Express Trust Income Fund II		25,307,741
Self-directed brokerage accounts		28,321
Various maturities and interest rates		
ranging from 5.00% to 11.00%		5,480,047
	\$	139,282,854
	423,782 shares of common stock Enhanced Stock Market Fund Dreyfus Small Cap Stock Index Fund Dreyfus Midcap Index Fund Principal Investors Midcap Value Institutional Fund Principal Investors Midcap Growth Institutional Fund Vanguard Value Index Fund Vanguard Growth Index Fund Vanguard Small Cap Value Index Fund Vanguard Small Cap Growth Index Fund Vanguard Total International Stock Index Fund Vanguard Balanced Index Fund Vanguard Index Fund Vanguard Fund Gartmore Morley Stable Value Fund Evergreen Money Market Fund American Express Trust Income Fund II Self-directed brokerage accounts Various maturities and interest rates	423,782 shares of common stock Enhanced Stock Market Fund Dreyfus Small Cap Stock Index Fund Dreyfus Midcap Index Fund Principal Investors Midcap Value Institutional Fund Principal Investors Midcap Growth Institutional Fund Vanguard Value Index Fund Vanguard Growth Index Fund Vanguard Small Cap Value Index Fund Vanguard Small Cap Growth Index Fund Vanguard Total International Stock Index Fund Vanguard Index Fund Vanguard Index Fund Vanguard Fund Vanguard Fund Stock Index Fund Vanguard Index Fund Vanguard Index Fund Vanguard Index Fund Vanguard Index Fund Stable Value Fund Evergreen Money Market Fund American Express Trust Income Fund II Self-directed brokerage accounts Various maturities and interest rates ranging from 5.00% to 11.00%

^{*}Party-in-interest

SIGNATURE

The Plan. Pursuant to the requirements of the Securities Exchange Act of 1934, the trustees (or other persons who administer the employee benefit plan) have duly caused this annual report to be signed on its behalf by the undersigned hereunto duly authorized.

NATIONAL-OILWELL RETIREMENT AND THRIFT PLAN

June 25, 2004 /s/Daniel L. Molinaro Date

Daniel L. Molinaro Member of the National-Oilwell Benefits

Plan Administrative Committee

EXHIBIT INDEX

Exhibit Number Description

23.1 Consent of Independent Registered Public Accounting Firm

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in the Registration Statement (Form S-8 No. 333-46459) pertaining to the National-Oilwell Retirement and Thrift Plan of our report dated June 23, 2004, with respect to the financial statements and schedule of the National-Oilwell Retirement and Thrift Plan included in this Annual Report (Form 11-K) for the year ended December 31, 2003.

/s/ Ernst & Young LLP

Houston, Texas June 23, 2004