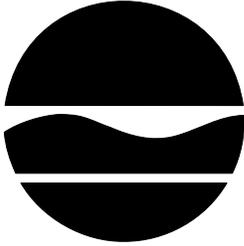


New York State



**Department of Environmental Conservation  
Division of Mineral Resources**

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# New York State Oil, Gas and Mineral Resources 2003

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**Annual Report**

New York State Department of Environmental Conservation

**George E. Pataki, Governor**

**Denise M. Sheehan, Acting Commissioner**

## *Division Mission Statement*

*The Division of Mineral Resources is responsible for ensuring the environmentally sound, economic development of New York's non-renewable energy and mineral resources for the benefit of current and future generations.*

This report was produced by the  
NYS Department of Environmental Conservation

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Bradley J. Field, Director

New York State  
Oil, Gas  
and  
Mineral Resources  
2003

State of New York  
George E. Pataki, Governor

Department of Environmental Conservation  
Denise M. Sheehan, Acting Commissioner

## EXECUTIVE SUMMARY

Mining occurs in every region of the State except the New York City area. Oil and gas development has historically occurred in the western half of the State, but the Finger Lakes region has recently experienced significant activity. Due to differences in legal reporting requirements, the types of statistics presented for the two programs are not identical. All information is for the year 2003.

### Oil, Gas and Solution Mining

**Inspections** - Staff traveled 120,456 miles and performed 2,486 oil and gas inspections.

#### Permits and Completions

Gas:	Permits	81	Completions	31
Oil:	Permits	38	Completions	28
Other:	Permits	41	Completions	59
Total:	Permits	160	Completions	118

**Wells Reported (All Types)** 2003 - 13,325

**Wells To Date (All Types)** - 75,000, majority pre-regulation (most plugging status unknown).

#### Production & Market Value

Gas	36.0 bcf	Down	2%
Oil	157,313 bbl	Down	12%
Total O&G Mkt Value	\$212 million		

**State Leasing** - 100 leases were in effect covering 81,000 acres and 182 productive wells.

#### Revenues from Oil and Gas

State Revenues	\$5.6 million
Local Govt. Taxes (est.)	\$6.4 million
Landowner Royalties (est.)	\$26.6 million

**Underground Natural Gas Storage** - 23 facilities were 80% full at year-end.

Total Storage Capacity	207 bcf
Working Gas Capacity	105 bcf
Max. Daily Deliverability	1.927 bcf/day

**Solution Mining** - 5 facilities produced 2.08 billion gallons of brine equal to 2.5 million metric tons of salt.

**Financial Security** - In 2003 New York held \$12.6 million to guarantee well plugging and site reclamation.

### Mined Land Reclamation

**Inspections** - Staff traveled 190,306 miles to perform 2,226 mine inspections.

#### Permits Issued

Total Permits	589	<b>Fees Annual</b>
New Permits	51	<b>Regulatory</b>
Renewal & Mod.	538	\$2.6 Million

**Active Mines** 2,317

**Estimated Market Value** \$978 Million

#### US Production Rank by Quantity

Wollastonite	1st	Talc	4th
Garnet	1st	Cement	10th
Salt	3rd	Sand & Gravel	14th

#### NY Rank by Value

Crushed Stone	1st	Sand & Gravel	4th
Cement	2nd	Wollastonite	5th
Salt	3rd		

#### Common Mine Types

Sand & Gravel	1,948
Limestone & Dolostone	99
Bluestone	51

#### Owner Type

Industry	1,776
Government	541

**Affected Acreage** 51,075

**Life-of-Mine Acreage** 126,674

**Reclaimed Acreage, 2003** 1,556

**Reclaimed Since 1975** 22,208

**Financial Security** - In 2003 New York required \$93.25 million to guarantee mine site reclamation.

## **DIRECTOR'S CORNER**

The oil and gas industry used technology to expand its search across New York State in 2003, while the mining industry maintained its national leadership position in several important mined commodities.

Total natural gas production in New York was 36.0 billion cubic feet (bcf) in 2003 with 24.5 bcf produced from just 50 Trenton-Black River (TBR) wells. At year-end 2003 cumulative TBR gas production stood at 74.7 bcf.

TBR exploration showed significant progress during the year. Operators increased their use of three-dimensional (3D) seismic and long-reach horizontal drilling to access reserves. DEC issued 38 TBR drilling permits to nine different operators in ten different counties. Twenty-four TBR wells were drilled and four new gas fields started production. New discoveries in Broome, Yates and Steuben Counties expanded the geographic scope of the play and in Chemung County, Fortuna Energy drilled their Konstantinides 1 well to a new state record of 14,475 feet total measured depth.

Continued successful TBR exploration across a larger portion of New York's Southern Tier was no doubt responsible for the record amount collected in the March 2003 lease sale. The 26,000 acres of State land drew \$4.5 million in successful bonus bids for 21 leases. Since the beginning of deep TBR production in 1996, approximately 40,000 acres of State land have been leased generating \$9.5 million in revenue with \$7.6 million of that in bonus bids alone.

At the opposite end of the regulatory spectrum, efforts continued in 2003 to address the legacy issue of abandoned unplugged wells in New York State. The Department plugged more wells in 2003 than any other entity in the State. At the Moore Lease in the Town of Bolivar in Allegany County, 43 wells were plugged under contract at a cost of only \$100,000 secured through litigation from the responsible party's

estate. Four abandoned wells on New York State lands were also plugged in 2003.

New York's mining industry maintained its national leadership position in mined materials in 2003 and rose to first in garnet production. The State also ranks in the top five nationally for production of wollastonite, talc and salt. The United States Geologic Survey estimated the value of New York's non-fuel mineral production at \$978 million. In terms of market value, crushed stone was New York's leading non-fuel mineral.

In 2003 there were 2,317 active DEC-regulated mines located in 56 of New York's 62 counties. Although the total number of active mines decreased by 4% in 2003, mine sizes are trending larger. Since 2000 the number of mines larger than 20 acres has increased by 10% while the number of mines 5 acres or less has decreased by almost 14%.

Mining staff approved final reclamation of over 958 acres in 2003 and an additional 598 acres reclaimed concurrently at mines that are still operating. Over 22,000 acres of mined lands have been reclaimed since 1975.

In 2003 the Department and the New York State Geologic Survey began work to inventory abandoned underground mines with a \$20,000 grant from the U.S. Mine Safety and Health Administration (MSHA). Many mines in New York that operated in the 19th and 20th centuries were abandoned before any permitting or regulatory program existed. Over 150 entrances to abandoned underground mines have been located throughout New York. This work will help protect public safety by identifying possible hazard areas where development should be avoided.

Be sure to see the new sections of this annual report on geothermal and stratigraphic wells and the significant new material on the Mined Land Reclamation Program.

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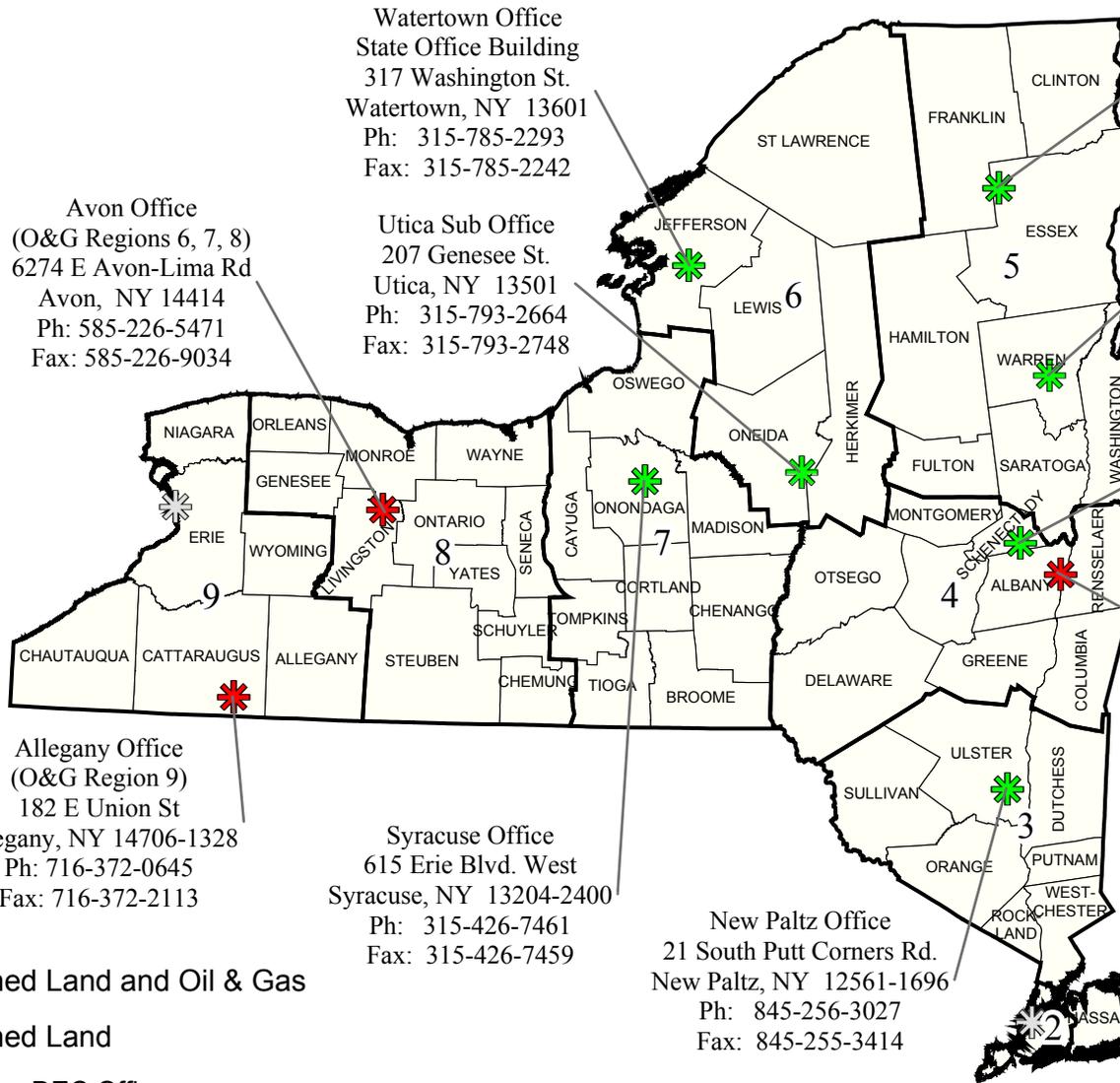
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Watertown Office  
 State Office Building  
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Avon Office  
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 Fax: 585-226-9034

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 Fax: 315-793-2748

Ray Brook Office  
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 New Paltz, NY 12561-1696  
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Stony Brook Office  
 SUNY - Bldg. 40  
 Stony Brook, NY 11790  
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 Fax: 631-444-0272

-  Mined Land and Oil & Gas
-  Mined Land
-  Other DEC Offices

## OIL, GAS AND SOLUTION MINING PROGRAM

Once again, the Trenton-Black River deep natural gas play continues to be the driving force behind New York's exploration, production and leasing activity. On March 21, 2003, the Department held an oil and gas lease sale of 21 tracts covering 26,500 acres of State Reforestation Areas and Wildlife Management Areas in Steuben and Schuyler Counties. The State collected over \$4.5 million dollars in successful high bids. Several bids exceeded the State's previous record of \$312 per acre; the new record is now \$587 per acre for Steuben SRA #14.

Industry interest remained strong as shown by the 20,000 acres of land that industry nominated for a proposed 2004 State lease sale. DEC's leasing process includes an extensive evaluation of nominated acreage before a decision is made to commit to a lease sale.

Four new gas fields commenced production in 2003 and further expanded the productive area of the Trenton-Black River play: Ballyhack Creek in Broome County, Guyanoga Valley in Yates County and Caton Field and Whiskey Creek Field, both in Steuben County. This new production expanded the geographical boundaries of the play 10 miles to the south, 40 miles to the east and 4 miles to the north of the previous year's Trenton-Black River production.

In 2003, 24 Trenton-Black River wells were drilled in nine counties. The Lovell and Henkle wells in Quackenbush Field (Chemung and Steuben counties) were the State's most prolific gas wells with approximately 3.5 bcf (billion cubic feet) of gas produced per well. Eight individual gas wells produced in excess of 1 bcf of gas in 2003. A total of 24.5 bcf was produced from only 50\* Trenton-Black River wells. Additional gas discoveries made in 2003 await pipeline construction to bring the wells online. Based upon the Trenton-Black River drilling results to date, New York's future gas production is headed for an all time record high.

\* Total includes all Trenton-Black River wells drilled since 1985.

New York State plugged more wells in 2003 than any individual operator. Using funds from a legal settlement, DEC plugged 43 wells on the Moore Lease in the Town of Bolivar, Allegany County. Leaking and abandoned oil wells from the State's priority plugging list were plugged via state contract by D&D Inc. Several of these wells were actively leaking oil to a stream or onto the ground. New York also plugged four other wells on State lands bringing the grand total of State-plugged wells to 49. As additional abandoned wells are discovered, they are added to DEC's list for future plugging.

Drilling and permit activity in the eastern part of the State grew dramatically in 2003. For the first and perhaps only time, New York County tied with Steuben County for the lead in number of drilling permits issued, at 26 apiece. Many building projects are utilizing geothermal wells to assist in the heating/cooling of new and existing construction. A number of stratigraphic wells were drilled in New York County to gather information which will provide data to assist engineering firms in the design and location of the city's water tunnels. Stratigraphic and geothermal wells were drilled in a variety of interesting locations such as the Bronx Zoo, Harlem, and Long Island.



Seismic trucks operating in New York.

## DRILLING PERMITS AND WELL COMPLETIONS

### Drilling Permits

Division staff issued 160 drilling permits in 2003: 81 gas, 38 oil, 12 brine, 9 geothermal and 20 stratigraphic wells (see Table 5 on page 19). Permits were issued for 21 counties; the top three counties for permits were New York and Steuben, tied at 26, with Allegany County in third place at 15 permits. Interest in the Ordovician age carbonates of central New York remained strong during 2003 with 38 permits issued for the Trenton Black-River formation.

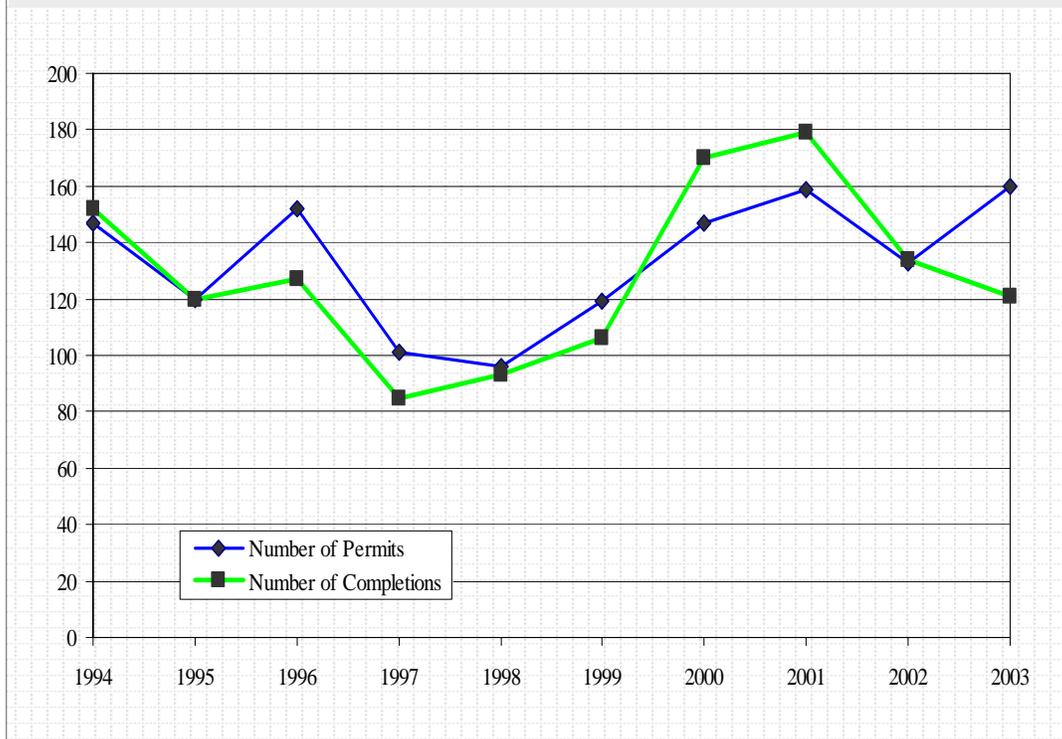
A complete list of drilling permits issued in 2003 can be found on page 69. A ten-year comparison of drilling permits issued versus completions is shown in Chart 1 below.

### Well Completions

There were 121 gas, oil, gas storage, brine, stratigraphic and geothermal wells completed during 2003. Completed wells are listed in the table starting on page 75. Well type codes are listed on page 65.

In 2003 wells were completed in 21 of the State's 62 counties: Allegany, Broome, Cattaraugus, Chautauqua, Chemung, Chenango, Cortland, Erie, Genesee, Madison, New York, Ontario, Orange, Schuyler, Seneca, Steuben, Tioga, Tompkins, Wayne, Wyoming and Yates. The top three counties for completions were Steuben (18), New York (16) and Cattaraugus (11).

Chart 1 - Drilling Permits and Completions, 1994 - 2003



## OIL & GAS WILDCATS AND FIELD EXTENSIONS

### Wildcats

In 2003, 35 wildcats were drilled in 12 counties from Broome County on the east to Erie County on the west. Twenty-three of the wildcats targeted the Trenton-Black River formations which contributed over 68% of New York's gas production. In 2003 the deepest wildcat, Curren #1, was drilled by Columbia Natural Resources in Chemung County to a true vertical depth of 11,329 feet.

### Field Extensions

In 2003, one field extension was drilled targeting the Trenton-Black River. The Andrews #1 was drilled in Steuben County's Quackenbush Hill field, which is the second most productive field in the State.

### Trends

The number of wildcats fell 12.5% from 40 in 2002 to 35 in 2003. The number of field extensions dropped from five to four.

Wildcat wells were drilled in 12 counties in 2003, compared to 14 counties in 2002. Activity expanded northward; several Wayne County wells were drilled over 33 miles northeast of the nearest Trenton-Black River production.

**Codes for Tables 1 & 2  
Pages 12-14**

GW Gas Wildcat (proposed)  
GE Gas Extension (proposed)

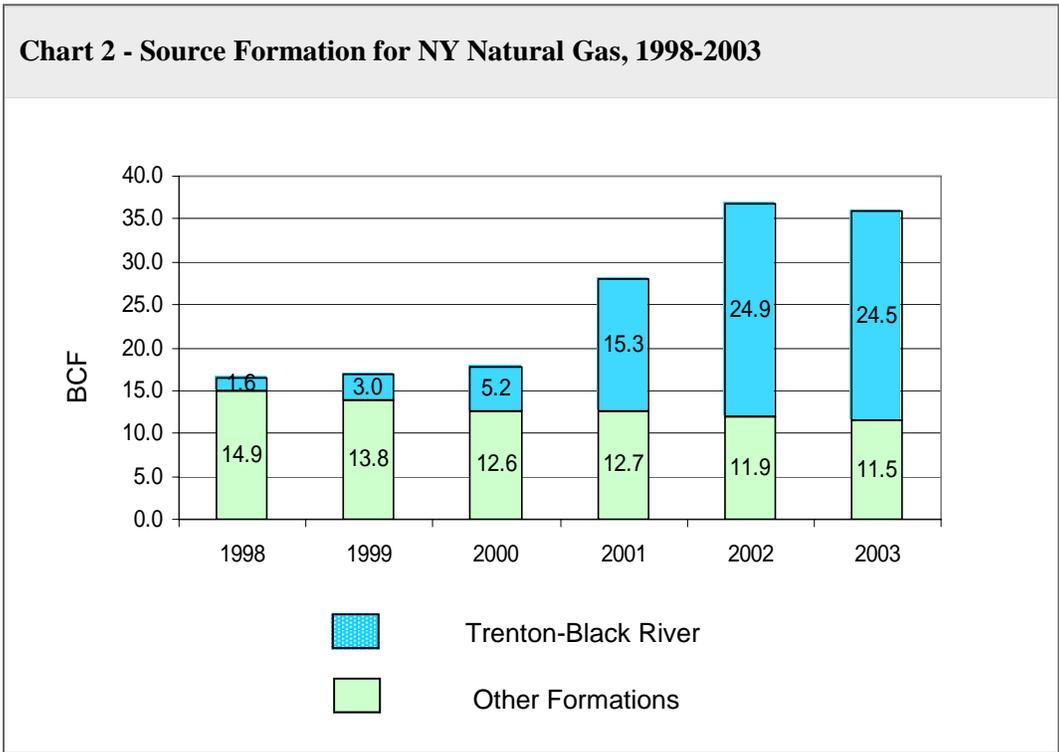


Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
<b>Allegany</b>								
Allen	Columbia Natural Resources	31003235310000	Gallmann 1	3,445	12/8/03	GW	Not Applicable	Oriskany
<b>Broome</b>								
Kirkwood	Fortuna Energy, Inc.	31007230560000	Butkowsky 1	10,105	10/9/03	GW	Ballyhack	Black River
Kirkwood	Fortuna Energy, Inc.	31007230560100	Butkowsky 1-A	10,104	10/18/03	GW	Ballyhack	Black River
Kirkwood	Belden & Blake Corp.	31007230830000	Gabriel 1	4,899	12/16/03	GW	Not Applicable	Helderberg
<b>Chemung</b>								
Big Flats	Fortuna Energy, Inc.	31015230280000	Hepfner 1	9,853	11/2/03	GW	Quackenbush Hill	Black River
Southport	Fortuna Energy, Inc.	31015230760000	Curren 1	11,329	12/2/03	GW	Seeley Creek	Black River
Van Etten	Fortuna Energy, Inc.	31015230230000	Konstantimides 1	9,981	7/28/03	GW	Langdon Hill	Black River
<b>Chenango</b>								
Preston	EOG Resources, Inc	31017230570000	Oxford 2	2,620	9/22/03	GW	Not Applicable	Oriskany
<b>Cortland</b>								
Taylor	Belden & Blake Corp.	31023230510000	Frink 1	2,238	9/18/03	GW	Not Applicable	Oriskany
Virgil	Phillips Production Co.	31023230350000	Sega 1	7,823	8/13/03	GW	Not Applicable	Black River
Virgil	Columbia Natural Resources	31023230350100	Sega 1-A	7,848	8/30/03	GW	Not Applicable	Black River
<b>Erie</b>								
Collins	Seneca Resources Corp.	31029234890000	McCarthy 37546	1,500	7/15/03	GW	Not Applicable	Upper Dev. Sh.
Sardinia	Arden Resources, Inc.	31029235330000	Bockhahn Wm Unit 1	5,971	11/15/03	GW	Bockhahn	Theresa
<b>Ontario</b>								
Gorham	Fortuna Energy, Inc.	31069229850200	Bay 1-B	5,360	8/15/03	GW	West River	Black River

Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003, Continued

County/ Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
<b>Schuyler</b>								
Dix	Fortuna Energy, Inc.	31097230080000	Ganung 2	13,509	5/29/03	GW	Moreland	Black River
Dix	EOG Resources, Inc	31097230530000	WGI 1	9,103	10/19/03	GW	Not Applicable	Black River
Dix	EOG Resources, Inc	31097230530100	WGI 1-A	9,150	11/3/03	GW	Not Applicable	Black River
Reading	EOG Resources, Inc	31097230040000	Fierro 1	7,398	3/11/03	GW	Not Applicable	Black River
<b>Seneca</b>								
Tyre	Great Lakes Energy Partners	31099230410000	Smith-Griggs 2	1,660	10/21/03	GW	Not Applicable	Queenston
Tyre	Great Lakes Energy Partners	31099230420000	Smith-Griggs 1	1,663	10/17/03	GW	Not Applicable	Queenston
Tyre	Great Lakes Energy Partners	31099230430000	Smith-Griggs 4	3,256	12/12/03	GW	Not Applicable	Trenton
<b>Steuben</b>								
Bath	Kelly Oil and Gas, Inc.	31101230290000	Scudder 1	2,926	5/18/03	GW	Not Applicable	Oriskany
Caton	Fortuna Energy, Inc.	31101229630200	Maxwell 1-B	11,280	5/2/03	GW	Caton	Black River
Caton	Fortuna Energy, Inc.	31101230400000	Harndon 1	11,012	8/8/03	GW	Whiskey Creek	Black River
Howard	Columbia Natural Resources	31101230390000	Miller 1	8,600	9/10/03	GW	Not Applicable	Black River
Troupsburg	Victory Energy Corp.	31101230160000	Fishe1 1	5,070	4/15/03	GW	Not Applicable	Onondaga
Troupsburg	Victory Energy Corp.	31101230790000	Henninger 1	4,728	11/18/03	GW	Not Applicable	Oriskany
Troupsburg	Victory Energy Corp.	31101230800000	Snyder 1	5,197	11/15/03	GW	Not Applicable	Oriskany
<b>Tompkins</b>								
Enfield	Columbia Natural Resources	31109229980200	Stevenson 1-B	7,987	1/10/03	GW	Not Applicable	Black River
Newfield	Phillips Production Co.	31109229970100	Albanese 1-A	9,048	2/26/03	GW	Not Applicable	Black River
Newfield	Columbia Natural Resources	31109229970200	Albanese 1-B	9,078	3/20/03	GW	Not Applicable	Black River

**Table 1 - Wildcats Drilled to True Vertical Depth (TVD) in 2003, Continued**

County/Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
<b>Wayne</b>								
Butler	Lenape Resources, Inc.	31117230140000	Everhart 1	2,408	2/11/03	GW	Not Applicable	Trenton
Butler	Lenape Resources, Inc.	31117230150000	High 1	3,960	1/25/03	GW	Not Applicable	Trenton
Butler	Lenape Resources, Inc.	31117230180000	K. High 1	3,700	3/22/03	GW	Not Applicable	Trenton
Galen	Columbia Natural Resources	31117230370000	Harper 1	3,150	12/11/03	GW	Pangburn	Black River

**Table 2 - Field Extensions Drilled to True Vertical Depth (TVD) in 2003**

County/Town	Company	API Number	Well Name	TVD	TD Date	Well Type	Field	Objective Formation
<b>Madison</b>								
Lebanon	Nornew, Inc.	31053230520000	Swenson-Manning 1	3,279	8/20/03	GE	Not Applicable	Oneida
Lebanon	Nornew, Inc.	31053230600000	Symonds-Joseph 1	3,263	9/11/03	GE	Not Applicable	Oneida
<b>Steuben</b>								
Corning City	Fortuna Energy, Inc.	31101230380000	Andrews 1	10,117	11/16/03	GE	Quackenbush Hill	Black River
<b>Wayne</b>								
Galen	Columbia Natural Resources	31117230870000	Hughes 2	3,736	11/25/03	GE	Clyde	Queenston