



Department of Environmental Conservation

Division of Mineral Resources

**New York State
Oil, Gas
and
Mineral Resources
1998**

Annual Report

New York State Department of Environmental Conservation
George E. Pataki, Governor John P. Cahill, 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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DIRECTOR'S CORNER

Gregory H. Sovas

It is difficult to believe that another year has passed so quickly because so much has been accomplished.

In 1998, the Department funded an additional four Mined Land Reclamation staff in the regions. This increase is the first since the program was staffed in 1978. Now in fiscal year 1999-2000, additional staff and resources will be added to the program due to an increase in appropriation from the Mined Land Reclamation Account, funded by annual regulatory fees from the industry.

The Division's Mined Land Reclamation Program staff continues to do outstanding work both in the field and here in Albany. They have been working in a sometimes difficult atmosphere among the public, the mining community, and local governments. The Division will continue to meet the challenges of the administration and management of these non-renewable natural resources.

On the oil and gas side, the Division is extremely busy - a good problem to have. While 1998 was not a good year for the oil industry because of extremely low prices, the natural gas industry has held up very well.

The Division has always said that the deep horizons in New York are unexplored provinces. Now with the advent of technology, New York has become an attractive target with significant discoveries by Columbia Natural Resources in Steuben County. For the first time in many years, natural gas production has increased. While the increase was slightly more than three percent, increases are expected to continue in 1999 as wells are produced into the pipelines. Steuben County moved from tenth place to second in 1998 with production from only twenty-six wells. Deep drilling in New York presents a different set of

problems. Wells are being drilled in wildcat areas where landowners and local governments are unfamiliar with the industry and the Division's role in regulating the industry. Drilling rigs are on locations for weeks instead of days. Spacing and correlative rights are now major issues that must be dealt with up front. Our staff, particularly in Region 8, continues to do an outstanding job in keeping local officials informed, talking to landowners about leasing and our regulatory role, and most importantly, keeping up with the issuance of permits and inspections. This has been difficult because travel times to locations have increased dramatically. Continued activity in 1999 points to a banner year for natural gas exploration and production across western and central New York.

From the Division's standpoint, traditional oil and gas producers in NYS have been joined by a new group of larger-sized and more highly capitalized companies exploring the deep formations for natural gas. This new group of players are using modern technological advances such as 3-D seismic to test new horizons. Another major segment is the underground storage industry. Changes in the way gas is delivered to market has made gas storage in New York more attractive. Many different operators using different technologies have all contributed to a modernization of the industry in New York.

As a final note, even after all these years with the Department, I continue to be impressed with the professionalism of Department employees, both within and outside of the Division. Seeing the response of staff to continuing demands from all sides has reinforced my belief that the Division has extremely dedicated employees. Please recognize their individual efforts in assisting both the mining and oil and gas operators to do work in an environmentally sound manner.

EXECUTIVE SUMMARY

New York State Oil, Gas and Mineral Resources - 1998 is the fifteenth annual report published by the Department of Environmental Conservation's Division of Mineral Resources. Drilling statistics for the year are calculated from well completion reports submitted to this Division by the operators. At the time of publication 78 percent of the registered operators, or 759 of 964 operators, had filed required Annual Well Reports.

OIL and GAS HIGHLIGHTS

- L Reported production of natural gas increased approximately 3 percent to 16.7 billion cubic feet compared with 1997's reported production of 16.2 billion cubic feet.
- L Production of oil was 217,154 barrels, a decrease of 21 percent from 1997's reported production of 276,330 barrels.
- L Average wellhead prices paid in 1998 were \$2.46 per thousand cubic feet of gas and \$11.46 per barrel of oil.
- L Market value of reported oil and gas was an estimated \$43.7 million. Landowners received approximately \$5.46 million in royalties.
- L New York operators spudded 74 wells during 1998, a decrease of 17 wells from 1997.
- L Gas well completions increased from 22 gas wells completed in 1997 to 41 gas wells completed in 1998.
- L Regional staff issued 90 drilling permits in 1998.
- L Oil well completions decreased from 30 oil wells completed in 1997 to 4 oil wells completed in 1998.
- L Reported oil and gas production generated an estimated \$1.31 million in real property tax revenues.
- L Total State revenues from permits and leasing of State lands were \$535,123 in 1998.
- L Oil and Gas staff performed 3,107 inspections and traveled 75,039 miles during 1998.
- L Market value of solution salt mining in New York for 1998 was \$100 million.
- L Steuben County became the second highest producing county this year, up from tenth place, with production of 1.688 billion cubic feet of gas from only 26 wells.

MINERAL HIGHLIGHTS

- L In 1998 the Division was responsible for 2,463 surface and underground mines affecting 46,487 acres.
- L Mined Land staff issued 514 permits, 88 new and 426 renewals during 1998. Seventy additional mines completed final reclamation.
- L Estimated value of the minerals mined in New York State during 1998 was \$1.5 billion.
- L Mined Land staff in 1998 approved the reclamation of 595 acres of affected land.

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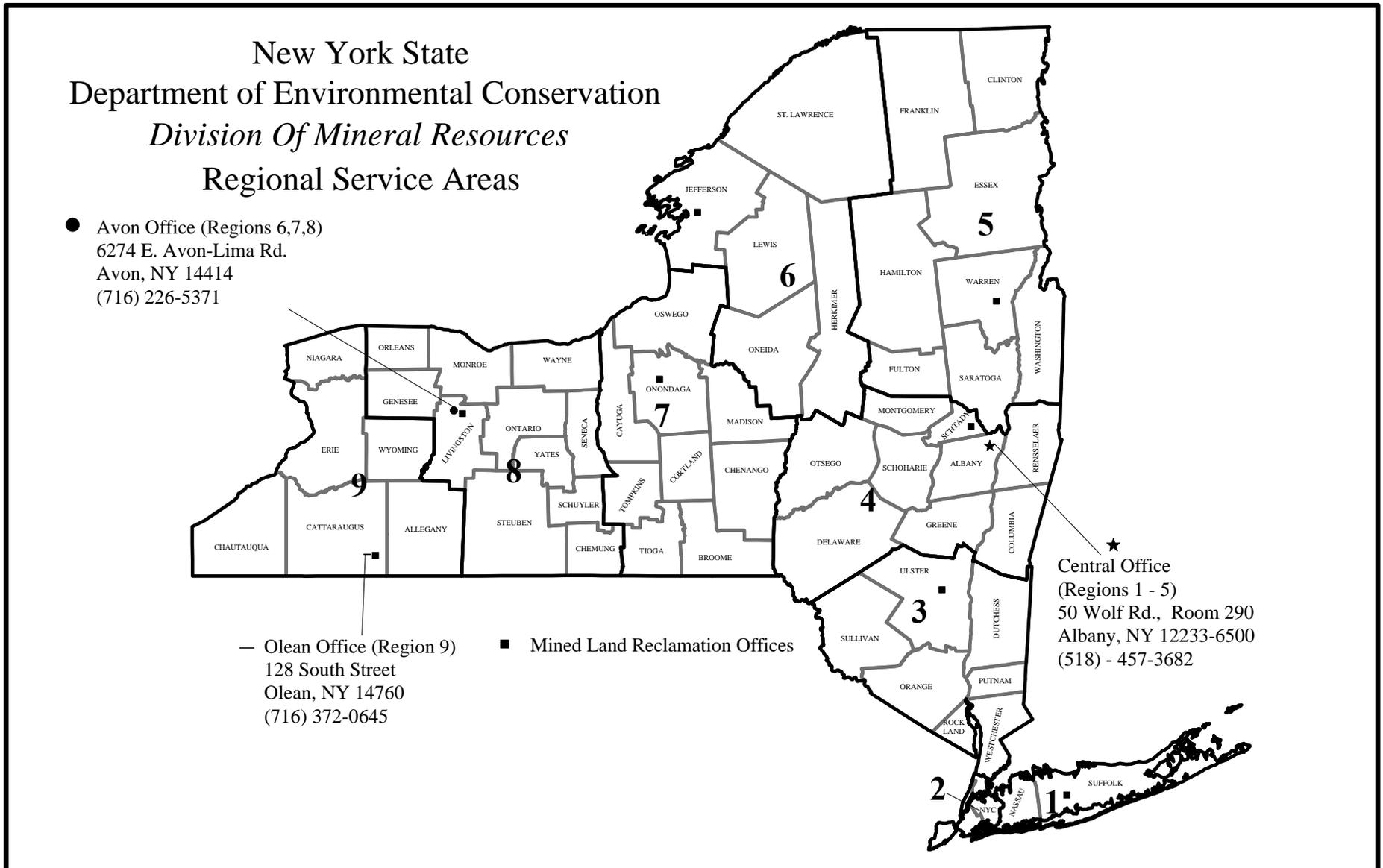
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Map 1. Regional Service Areas.

PERMITS & COMPLETIONS

PERMITS

Division staff issued 90 drilling permits in 1998: 68 gas well permits, 1 oil well permit, 14 solution mining well permits, 2 storage well permits and 5 geothermal well permits. A complete listing of the issued permits is included on page 20 of this report. A ten year comparison of drilling permits issued versus completions is shown in Chart 1.

COMPLETIONS

There were 75 oil, gas, brine and storage wells completed in New York counties during 1998. An individual listing of the completed 1998 wells (Table 11) is included on page 23 of this report. Well type codes are listed on page 17.

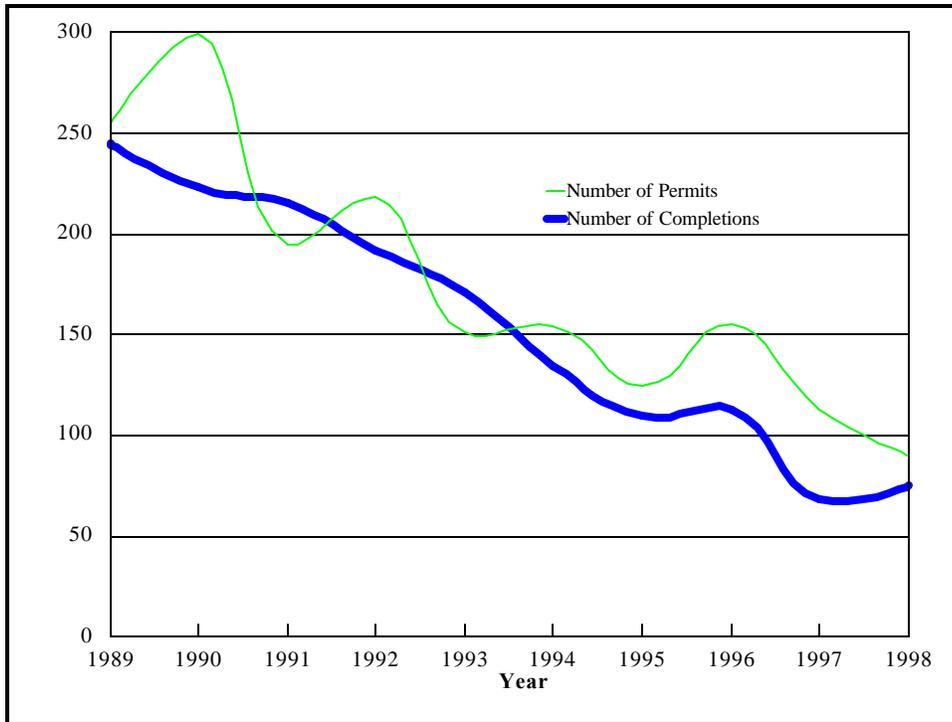


Chart 1. Drilling Permits Issued vs Completions, 1989 - 1998.

PRODUCTION OF OIL & NATURAL GAS**Bradley J. Field**

In 1998, New York's production of oil decreased to 217,154 barrels, a fall of 21 percent from 1997. This production decline was due in large part to a \$5.50 per barrel drop in the average 1998 oil price, a 32 percent decrease from the 1997 average. The average producing New York oil well yielded less than a quarter of a barrel per day in 1998, far below the traditional "stripper" definition of 10 barrels per day. Oil production figures are based on the oil buyers' reports.

Table 1 details the top ten gas producing counties in New York, while Table 2 lists the top ten oil and gas producing companies, respectively, for 1998. Map 2 on page 4 shows oil production in New York State by town. Chart 2 illustrates New York oil production for the last ten years.

New York's 1998 reported gas production is 16.7 billion cubic feet (bcf), and production distribution is shown on Map 3, by town, on page 5. This production volume does not account for gas produced by well owners who have neglected to file 1998 Annual Well Reports. Approximately 20 percent of well owners of record have not yet filed, which is a violation of current regulations.

Of particular note is that Steuben County moved up to second place from tenth with total gas production of 1,688 MMCF - an average of 64,925 MCF per active well. Most of this gas was produced in the Glodes Corners Road Field operated by Columbia Natural Resources. Nine active wells produced 1,567 MMCF in 1998 from the Ordovician Trenton/Black River. Chart 3 on page 3 shows New York gas production for the last ten years.

TOP TEN GAS PRODUCING COUNTIES, 1998

County	Gas (MCF)	No. of Active Wells	Average MCF/Well
Chautauqua	7,227,289	3,059	2,363
Steuben	1,688,038	26	64,925
Erie	1,439,443	836	1,722
Cattaraugus	1,260,996	526	2,397
Cayuga	1,251,858	302	4,145
Genesee	962,651	493	1,953
Tioga	944,581	13	72,660
Seneca	579,827	142	4,083
Allegany	518,942	57	9,104
Wyoming	504,914	249	2,028

Table 1. Top Ten Gas Producing Counties, 1998.

TOP TEN OIL & GAS PRODUCING COMPANIES, 1998

OIL		GAS	
Company	Production (BBL)	Company	Production (MCF)
Richardson Petroleum Corp.	26,131	Belden & Blake Corporation	3,162,088
Pefley Oil & Gas, Inc.	16,148	Lomak Operating Company	2,095,567
East Resources, Inc.	16,049	Columbia Natural Resources	1,655,410
Woods Oil Company, Inc.	10,082	Meridian Exploration Corp.	1,469,461
R & C Oil Co.	8,794	Seneca Resources Corp.	886,373
Otis Eastern Service, Inc.	6,465	United States Gypsum Co.	772,022
Belden & Blake Corporation	5,435	Nornew, Inc.	596,644
REI-NY	5,199	Lenape Resources, Inc.	481,664
A. J. Lease Account	5,189	Stedman Energy, Inc.	309,881
Chautauqua Energy, Inc.	5,059	Ardent Resources, Inc.	302,069

Table 2. Top Ten Oil & Gas Producing Companies, 1998.

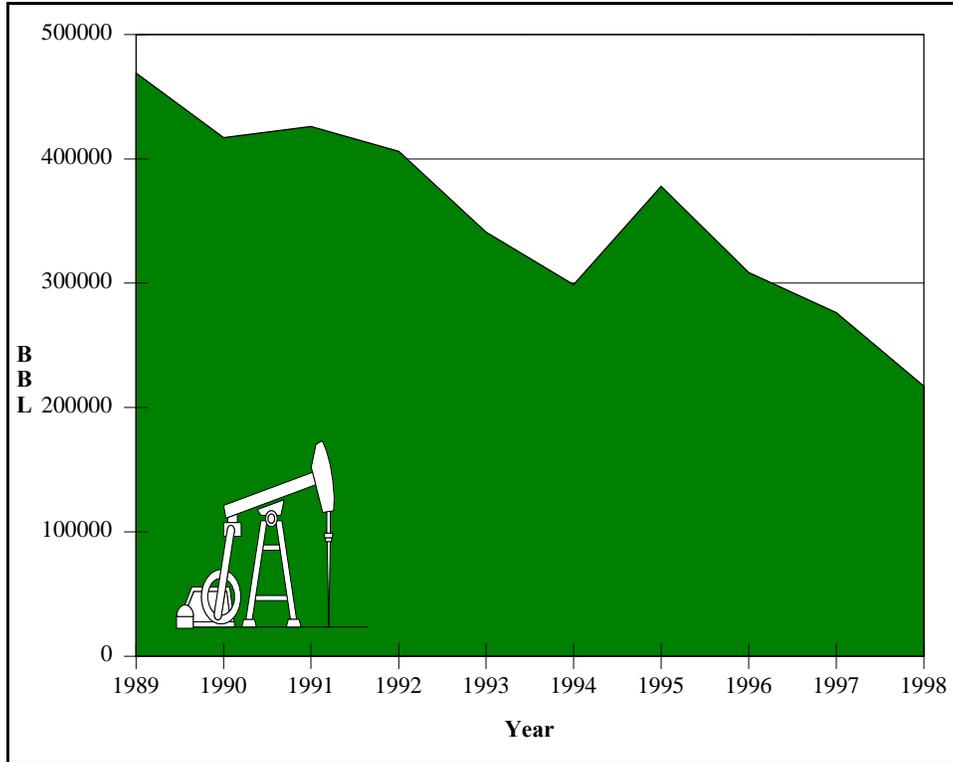


Chart 2. New York Oil Production, 1989 - 1998.

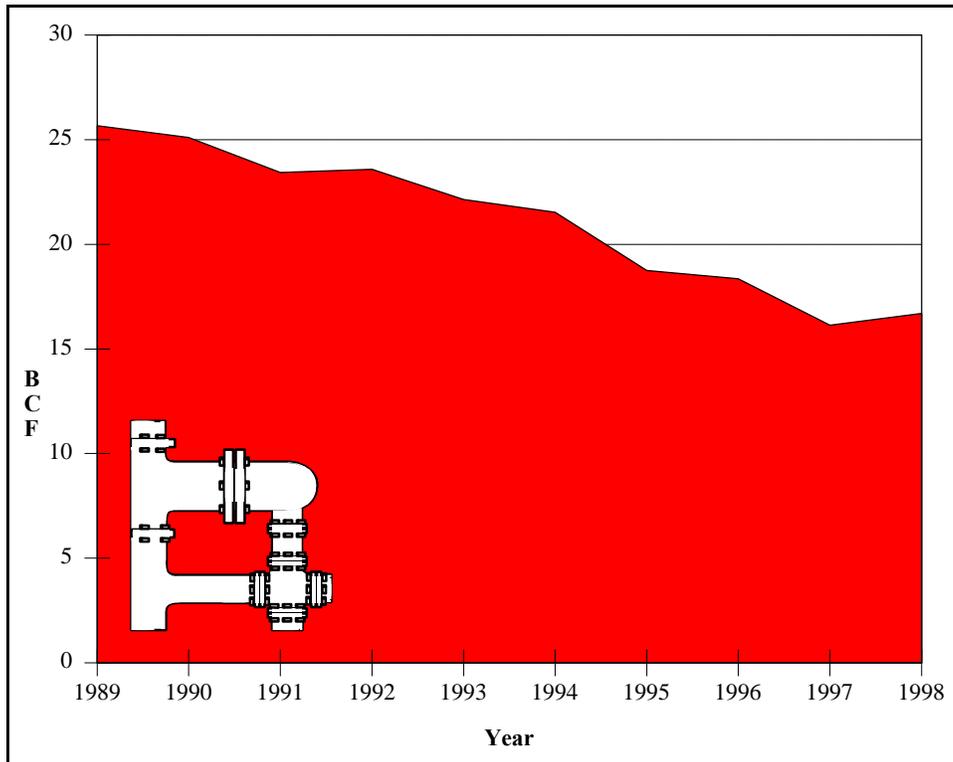
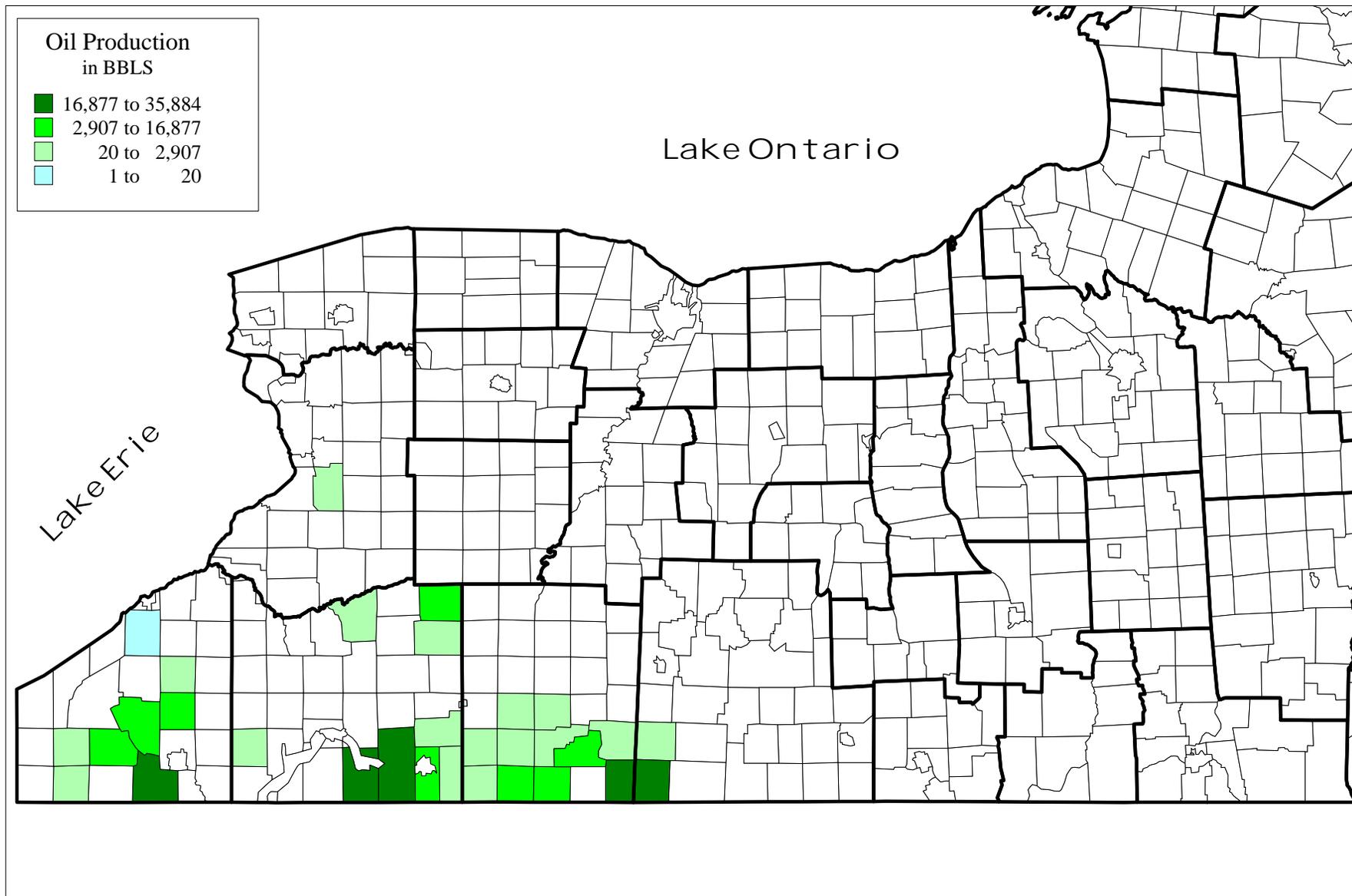
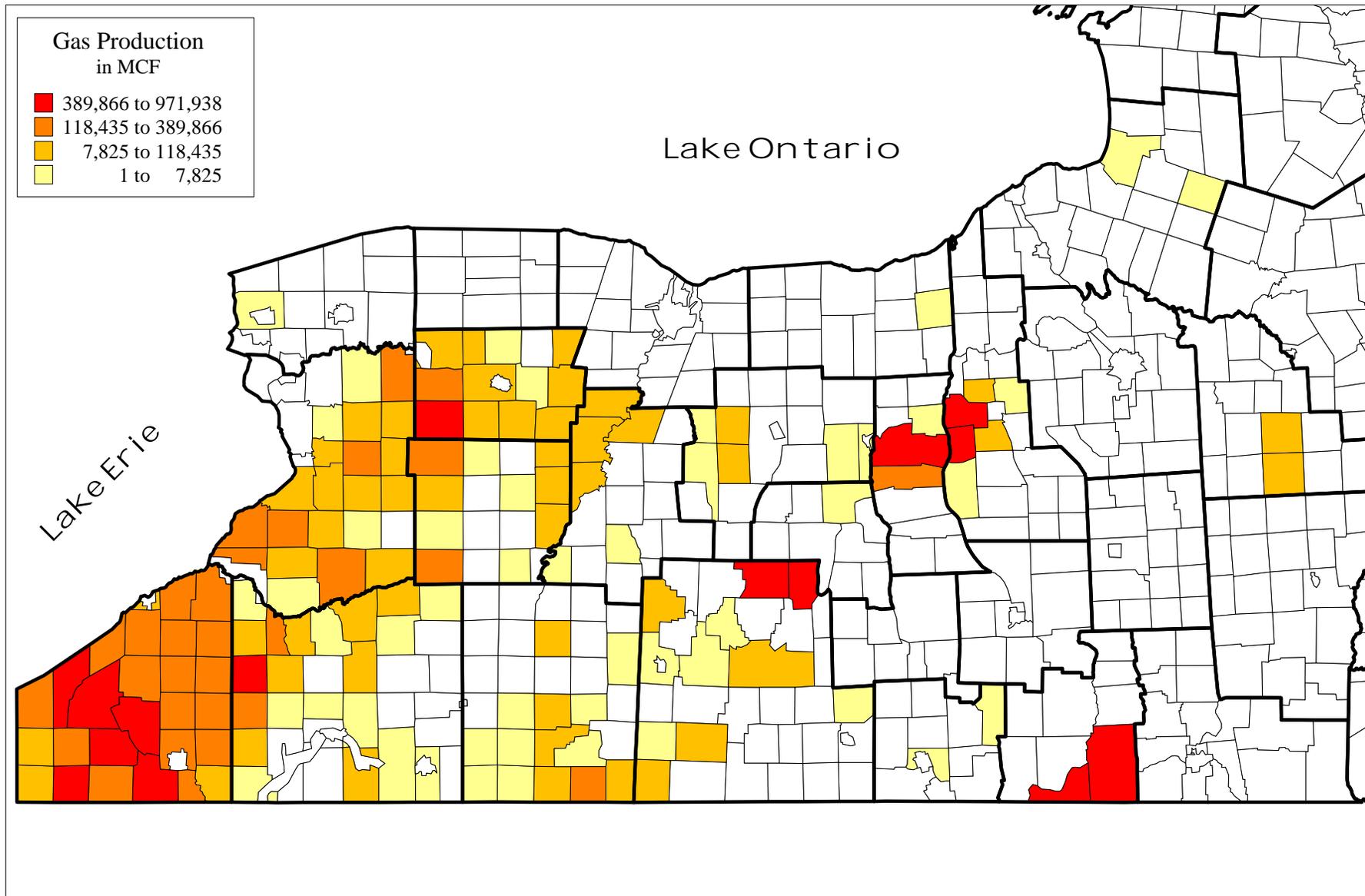


Chart 3. New York Gas Production, 1989 - 1998.



Map 2. New York State Oil Production by Town, 1998.



Map 2. New York State Gas Production by Town, 1998.

MARKET VALUE

Clemsford Pollydore

The market value of New York State's reported oil and gas production for 1998 was estimated at \$43.7 million. Average wellhead price for gas was obtained from royalty payments made to the state for leases on state lands, while the average wellhead price for oil was obtained from American Refining Company. The New York State Office of Real Property Services no longer calculates these figures. Table 3 lists the average wellhead prices for oil and gas for the years 1989 to 1998.

Wellhead oil prices for 1998 averaged \$11.96 per barrel, a decrease of \$5.50 per barrel from 1997's average price. Market value of the state's 1998 reported production of 217,154 barrels was approximately \$2.6 million.

The average price for natural gas at the wellhead was \$2.46 per mcf, a decrease of \$0.10 per

mcf. The market value of the reported produced gas was approximately \$41.1 million. Chart 4 illustrates the market value of oil and gas for the years 1989 to 1998.

Property Tax Revenues

Estimated real property tax revenues attributable to reported 1998 oil and gas production were approximately \$1.31 million. Taxes from natural gas and oil production were calculated to be \$1.23 million and \$77,915 respectively.

Leasing Royalties

Statewide, all landowners who had producing oil and gas leases during 1998 received approximately one-eighth of the market value of \$43.7 million, or approximately \$5.46 million in royalties.

AVERAGE WELLHEAD PRICE of OIL & GAS, 1989 - 1998		
YEAR	OIL \$/BBL	GAS \$/MCF
1989	\$17.70	\$2.20
1990	\$23.00	\$2.23
1991	\$19.68	\$2.15
1992	\$18.95	\$2.25
1993	\$17.09	\$2.40
1994	\$15.39	\$2.35
1995	\$16.29	\$2.30
1996	\$18.29	\$2.21
1997	\$17.46	\$2.56
1998	\$11.96	\$2.46

Table 3. Average Wellhead Price.

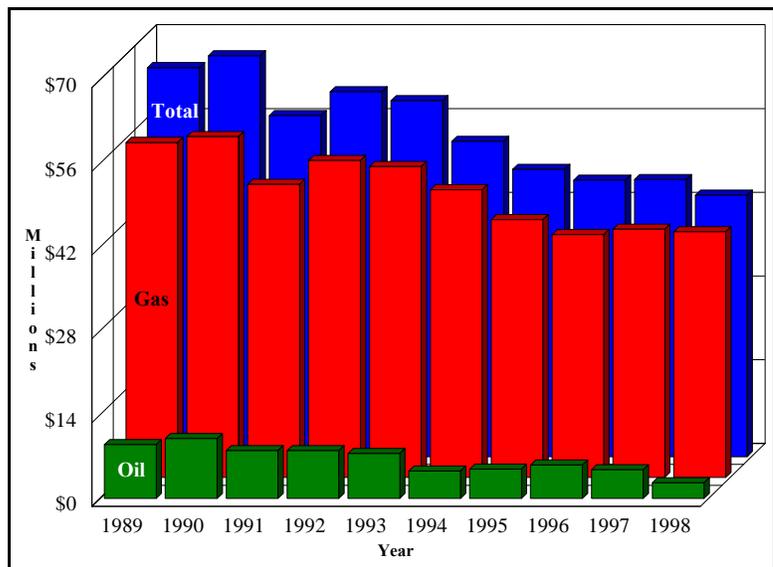


Chart 4. Market Value of New York Oil and Gas, 1989 - 1998.

RESOURCE DEVELOPMENT REVENUES

Chris Reed

The Division of Mineral Resources collects revenues from oil and gas activity under the Oil, Gas and Solution Mining Law. In 1998, total oil and gas revenues were \$535,123; permits and fees were \$154,350; fines and penalties were \$101,250 and leasing revenues from state lands were \$279,523. Total revenues increased 47 percent over the 1997 total of \$284,978 due to the increase of both drilling permits issued for deep wells and leasing of state land. An enforcement settlement of \$100,000 also contributed to the revenue total.

State Land Leasing and Revenues

At year end 1998, the Division managed 73 leases covering 48,410 acres of state land, an increase of 27 percent from the 1997 year-end total of 35,425 acres. Production royalties generated from 17,197 acres of this land totaled \$107,789. The remaining 31,213 acres yielded \$171,734 from delay rentals, bonus money and storage fees. Total revenues from the onshore leasing program in 1998 were \$279,523, an increase of 66 percent from the \$168,029 earned in 1997. This increase is due primarily to additional acreage being leased.

One competitive bid sale was conducted in 1998. Scully Oil and Gas was awarded the leases for Steuben State Reforestation Area (SRA) #15A and #15B and Allegany SRA #1A, #1B, #1C, #2A, #2B, #2C, #7A, #7B and #20. Scully was the sole bidder on these parcels offering \$5.00 per acre for a total bonus bid of \$65,000. A second sale was initiated for areas in Schuyler, Steuben and Chemung counties.

Major natural gas discoveries in central New York, particularly Steuben and Tioga counties, have stimulated oil and gas operator interest. Deep tests being drilled in the western and central parts of the state along with horizontal drilling are also increasing leasing activity.

Obtaining Leasing Information

Information on county maps showing the location of acreage within a county and printouts of available acreage can be obtained by contacting the Division's leasing staff in Albany. The Department of Environmental Conservation is the designated agent for development of hydrocarbon leases on all eligible state lands. Leasing of state park lands and lands under the waters of Lake Ontario is prohibited. Lands underlying Lake Erie may be leased for only gas development; oil exploration and production is prohibited. Persons wishing to lease state lands may nominate tracts to be put up for competitive public bid. The minimum bid is five dollars per acre and each parcel nominated must be accompanied by a bid guarantee deposit. The bid guarantee is \$500 per nominated area plus \$1 per acre and is applied toward the bonus bid or refunded if the nominating party is out-bid. Noncompetitive leases may be granted for small parcels of state owned land in order to consolidate drilling or production units controlled by a single entity.

All hydrocarbon leases must have the approval of the agency with jurisdiction over the land in question. Special stipulations are included in most drilling leases for protection of endangered species, archeological sites, recreational sites, and wetlands.

SOLUTION SALT MINING

Peter S. Briggs

Five solution mining facilities in New York (see map on page 14) produced 2.10 billion gallons of saturated brine, or about 2.5 million metric tons of salt in 1998. Operators of these facilities injected 2.11 billion gallons of fresh and recycled plant process water into bedded salt zones of the Upper Silurian Salina Group to recover the brine. Brine withdrawals for 1998 represent a decrease of seven percent compared to 1997's figure of 2.25 billion gallons. The value of New York's 1998 solution salt mining production is estimated at \$100 million.

The 136 operating wells reported for 1998 include injection wells, withdrawal wells, wells equipped for both injection and withdrawal, and standby wells. Table 4 gives the status of operating wells at each facility. Solution miners in New York withdraw brine from both single-well and multi-well caverns. Operators of multi-well caverns sometimes alternate wells between injection and

withdrawal in order to balance dissolution (which occurs mostly at the injection well), thereby controlling the size and shape of the caverns. Other techniques used to maximize salt production while obtaining cavern stability include hydrofracturing, horizontal drilling and roof padding.

U.S. Salt, Cargill, and Morton produced brine to supply on-site evaporation plants which manufacture and package table salt, water conditioning salt, and salt for other uses. Texas Brine's fields supply two chemical manufacturing plants in Niagara Falls via 60-mile-long brine pipelines. In 1998, solution miners accounted for over 50 percent of New York's total mined salt production, with the remainder extracted by conventional underground mining. According to statistics compiled by the U.S. Geological Survey, New York typically ranks third among the states in total annual salt production volume.

STATUS OF SOLUTION SALT MINING IN NEW YORK, 1998

OPERATOR	COUNTY	TOWN	PLUGGED WELLS	OPERATING WELLS	YEAR STARTED
U.S. Salt	Schuyler	Reading	58	13	1893
Cargill	Schuyler	Dix	13	13	1898
Morton	Wyoming	Castile & Gainesville	24	17	1884
Texas Brine	Wyoming	Middlebury (Dale field)	79	48	1970
Texas Brine	Wyoming	Middlebury (Wyoming Village field)	11	45	1984
Total			185	136	

Table 4. Status of Solution Salt Mining in New York, 1998.

REGION 8 REVIEW

Randy Nemecek - Region 8 Minerals Manager

Region 8 staff has been extremely busy covering a wide assortment of activities over the past year. Operations ranging from deep wildcat drilling to the construction of a new underground salt mine keep daily issues fast-paced and unpredictable.

The Trenton Black-River prospect continues to be the most impressive and active program in New York. Depending on the locations, well depths can range from 5,000 to 10,000 feet. Active drilling operations occurred in Steuben, Yates, Schuyler, Seneca, Tompkins and Cortland Counties. At one point in late 1998 five drilling rigs were conducting exploratory operations in the Trenton-Black River. Over the last year approximately 50 wells have been drilled to the Trenton-Black River formation. This activity has also led to the drilling of several directional wells in an effort to target recoverable reserves.

This successful play has created a leasing bonanza in counties across the Finger Lakes and Southern Tier regions. A record 1999 State Land lease sale, interest in Federal properties and our office being besieged by calls from landowners and municipalities seeking to obtain general information regarding oil and gas operations can be traced to activity in the Trenton-Black River. Additionally, we have attended several meetings sponsored by various groups to provide our perspective and role in regulating exploration and development operations.

Commercial wells drilled to the Trenton-Black River usually drain areas in excess of the statewide minimum regulatory standard. By law, the Department must review and/or establish new spacing standards to ensure the protection of correlative rights. The Department has had meetings with operators and held public hearings to address spacing and unitization issues. Two fields in Steuben County were subject to the public hearing process during the summer of 1999.

Although Trenton-Black River operations account for a large percentage of our workload we are also

involved with several other drilling projects. Drilling in Madison County continues with the expectation of several new wells. In addition, drilling occurred in Cayuga and Genesee Counties to the Queenston and Medina formations, respectively. Five oil wells were also permitted during the last year.

Underground gas storage continues to play a major role in Regions 7 and 8. Three new proposals are in various stages of permitting and development. Other areas of New York are also being considered for underground storage operations.

American Rock Salt, Inc. (ARS) is progressing well in the construction of their new underground salt mine in Livingston County. Of biggest concern during the early construction phase of the project was the discovery of Native American remains. The Department along with OPRHP and the Governor's office met on several occasions with Native American groups and ARS to negotiate how the remains would be protected. The final decision was to leave the remains at the construction site and have ARS modify their construction plans to protect the resource. ARS drilled six vent wells to abate the potential of gas during shaft construction operations. Fortunately only small volumes of methane and no hydrogen sulfide were discovered.

Because of the high level of activity over the last year in both the Oil and Gas and Mining programs, this office has had a large volume of visitors wishing to review records. We are now located in a new office with limited space. For that reason it is important that appointments be made so that we may accommodate your needs and ensure that a work space is available. In addition, please note that the Region 8 headquarters now has an updated telephone system. The old number continues to be in effect. However, you may now dial direct to Mineral Resources by dialing 716-226-5373.

REGION 9 YEARLY HIGHLIGHTS

Jack Dahl - Region 9 Minerals Manager

Region 9 Minerals Staff conducted two educational tours of the oil and gas operations in Western New York. Attending the August 4, 1998 meeting was DEC Commissioner John Cahill and Staff. A subsequent tour on September 3, 1998 was given to State Senator Patricia McGee, County Legislators John Walchli and Hobart Hall with regional staff. The sites visited included well pluggings, SPDES discharge locations, abandoned wells in the DOT right-of-way and an active power house which pumps many oil wells from one central location. In both tours the information was well received and an increased appreciation of petroleum operations/related environmental concerns was realized by all.

Regional and Central Office Staff devoted a great deal of time to the evaluation of comments received from the proposed regulation workshops held in the fall of 1997. Industry representatives, local governments and private citizens submitted comments for review. Literally hundreds of pages were evaluated by Minerals Staff. The DEC incorporated many of the suggested changes to the proposed regulations and listed several others as topics for discussion at future meetings with Industry. Follow-up sessions are tentatively scheduled for the Spring of 2000 to discuss revisions made and to gather additional information.

Two projects of special interest in 1998 were the Morton Salt/Amoco LPG Proposal and the Bass

Island directional oil well drilled by Resource America. Amoco permitted two stratigraphic well tests (PAC #1 and PAC #2) to gather information regarding the feasibility to store liquified propane gas in solution mined salt caverns.

Directional drilling technology was utilized by Resource America to redrill the Maring 3B well. The Maring 3B was initially drilled in February of 1991 and not produced. The directional segment commenced drilling on August 23, 1998. The well was subsequently completed as a producer. An Industry publication (PI/Dwight Report) listed initial production at 250 barrels of oil per day. Resource reported 1400 barrels of oil sold from the Maring 3B well in its 1998 production report. The success of directional drilling in the Bass Island formation will lead to additional directional wells within the Bass Island trend to recover bypassed production.

Drilling activity was down greatly from the 92 wells drilled in 1997. Only 33 wells were drilled in Region 9 during 1998. The low price of oil took a heavy toll on oil well drilling. Many operators shut-in entire oil leases due to the falling prices. For the first time in perhaps a century only one oil well was permitted and that well was the Maring 3B directional Bass Island redrill. I expect to see many more oil wells drilled in 1999 as the price per barrel increases from the record lows experienced in 1998.

UNDERGROUND GAS STORAGE**Kathy Sanford****NATURAL GAS STORAGE****Active Fields**

Table 5 summarizes the 1998 year-end status of underground natural gas storage in New York and Table 6 details activity during the year at each storage field. New York's 22 underground natural gas storage reservoirs (see map on page 14) were 86% full at the end of the reporting year, while year-end working gas in storage represented 72% of working capacity. Combined maximum daily deliverability from New York's natural gas storage fields held steady at 1.41 bcf.

During 1998, the Department intervened with the Federal Energy Regulatory Commission (FERC) regarding an application submitted to the FERC by National Fuel Gas Supply Corporation (NFGSC) to expand the boundary of the Zoar storage field in Erie County. The Department's intervention resulted in enhanced documentation of the geologic, geochemical and engineering analysis performed by NFGSC to support the proposed new boundary. NFGSC's proposal also requires an Underground Gas Storage Modification Permit from the Department.

Inactive Fields

Activity is expected during 1999 on two recently issued Underground Gas Storage Permits which remained inactive during 1998. The Division issued the permits to Avoca Natural Gas Storage Company (ANGS) in 1995 for the Avoca project and to Arlington Exploration Company in 1996 for the Thomas Corners Reef field. Both projects are located in Steuben County.

The Avoca permit was for development of six solution-mined salt caverns to store over six bcf of natural gas. Brine produced during the cavern development phase would be injected into deep disposal wells. Although thirteen wells have been drilled at the site, no solution mining or brine disposal operations have taken place and no natural gas has been stored. ANGS filed Chapter 11 bankruptcy in mid-1997, and has requested transfer of the existing wells to Northeastern Gas Caverns, LLC. The Department expects to receive information on the new operator's plans during 1999. Conversion of the former Thomas Corners Reef gas production field to natural gas storage service by the permittee is pending. In February

UNDERGROUND NATURAL GAS STORAGE SUMMARY, 1998

	ONONDAGA	ORISKANY	MEDINA	SALT CAVERN	TOTAL
Number of storage fields	2	9	10	1	22
Total number of wells	43	300	524	3	870
Reservoir acreage	2,473	25,841	42,630	4	70,948
Total acreage	7,112	57,051	102,946	4	167,113
Total capacity (bcf)	10.400	121.004	57.213	2.340	190.957
Gas in storage at year-end (bcf)	9.594	101.652	52.369	1.497	165.112
Working capacity (bcf)	6.800	56.727	26.000	1.450	90.977
Year-end working gas (bcf)	5.994	37.375	21.156	0.607	65.132
Max. daily deliverability (mmcf/day)	100.0	670.8	496.3	145.0	1,412.1

Table 5. Underground Natural Gas Storage Summary, 1998.

1998, the FERC set a deadline of July 27, 1999 to complete construction of related facilities and place the Thomas Corners Reef field into storage service. Steuben Gas Storage Company, an affiliate of Arlington Exploration, has filed with FERC to further extend the deadline and has initiated discussions with the Department about completing construction and commencing operations.

LIQUEFIED PETROLEUM GAS STORAGE

New York's three LPG storage operators reported a combined total of 88.6 million gallons of liquefied petroleum gas stored in underground caverns at the end of 1998 (see Table 7) This represents 69 percent of total storage capacity. The map on page 14 shows the location of the LPG storage fields.

In November of 1998, the Division issued an Underground Storage Permit to Amoco Oil Company for the construction and operation of a new LPG storage facility in the town of Gainesville, Wyoming County. This facility will ultimately consist of two 500,000-barrel caverns constructed by the solution mining of bedded salt at a depth of approximately 2,300 feet. An agreement between Amoco and the adjacent Morton Salt plant calls for Morton to use all of the brine generated by Amoco's construction and operation for the production of food-grade salt and other salt products. Morton will also supply all fluid required for LPG recovery, thus eliminating the need for a sizeable surface brine pond. Subsequent to permit issuance, Amoco announced that construction of its Silver Springs LPG facility is postponed by at least a year because of low product prices and other economic factors.

UNDERGROUND NATURAL GAS STORAGE FIELD ACTIVITY - 1998

STORAGE OPERATOR	STORAGE FIELD	TOTAL WELLS	TOTAL STORAGE CAPACITY (BCF)	GAS TO STORAGE (BCF)	GAS FROM STORAGE (BCF)	DESIGNED MAXIMUM DELIVERY (MMCF/DAY)
CNG Transmission Corp.	Woodhull	51	35.904	14.933	10.318	357.0
Columbia Gas Trans Corp.	Dundee	134	11.000	3.539	2.582	76.8
	Greenwood	7	3.600	0.044	0.092	5.0
	N.Greenwood	2	3.200	0.386	0.349	8.6
Honeoye Storage Corp.	Honeoye	39	8.713	3.931	2.969	40.0
National Fuel Gas Supply	Beech Hill	41	23.000	4.716	3.419	66.0
	Bennington	64	5.000	2.281	2.560	75.3
	Colden	166	16.220	6.183	5.452	110.0
	Collins	47	5.880	1.435	1.303	50.0
	Derby	14	0.250	0.119	0.063	5.0
	East Independence	11	6.400	2.128	1.691	14.7
	Holland	26	2.600	0.952	1.101	25.0
	Lawtons	31	2.470	0.709	0.559	21.0
	Limestone	14	19.800	0.929	0.469	37.0
	Nashville	71	8.530	2.769	2.541	110.0
	Perrysburg	40	3.850	1.075	0.818	35.0
	Sheridan	26	3.700	1.016	0.859	25.0
	Tuscarora	8	6.300	3.250	2.229	57.0
West Independence	32	11.800	4.601	3.179	48.7	
Zoar	31	2.200	1.608	1.684	40.0	
NYS Electric & Gas	Seneca Lake	3	2.340	2.005	2.629	145.0
Steuben Gas Storage Co.	Adrian Reef	12	8.200	4.009	2.811	60.0
Totals		870	190.957	62.618	49.677	1,412.1

Table 6. Underground Natural Gas Storage Field Activity, 1998.

UNDERGROUND LPG STORAGE SUMMARY. 1998

OPERATOR	CAVERN TYPE	TOTAL WELLS	TOTAL STORAGE CAPACITY (MGALS)	LPG IN STORAGE AT YEAR-END (MGALS)
Bath Petroleum Storage, Inc.	solutioned salt	12	50,045	23,246
New York LP Gas Storage, Inc.	solutioned salt	2	25,000	17,275
Texas Eastern Products Pipeline Co.	excavated rock	1	53,294	48,035
Totals		15	128,339	88,556

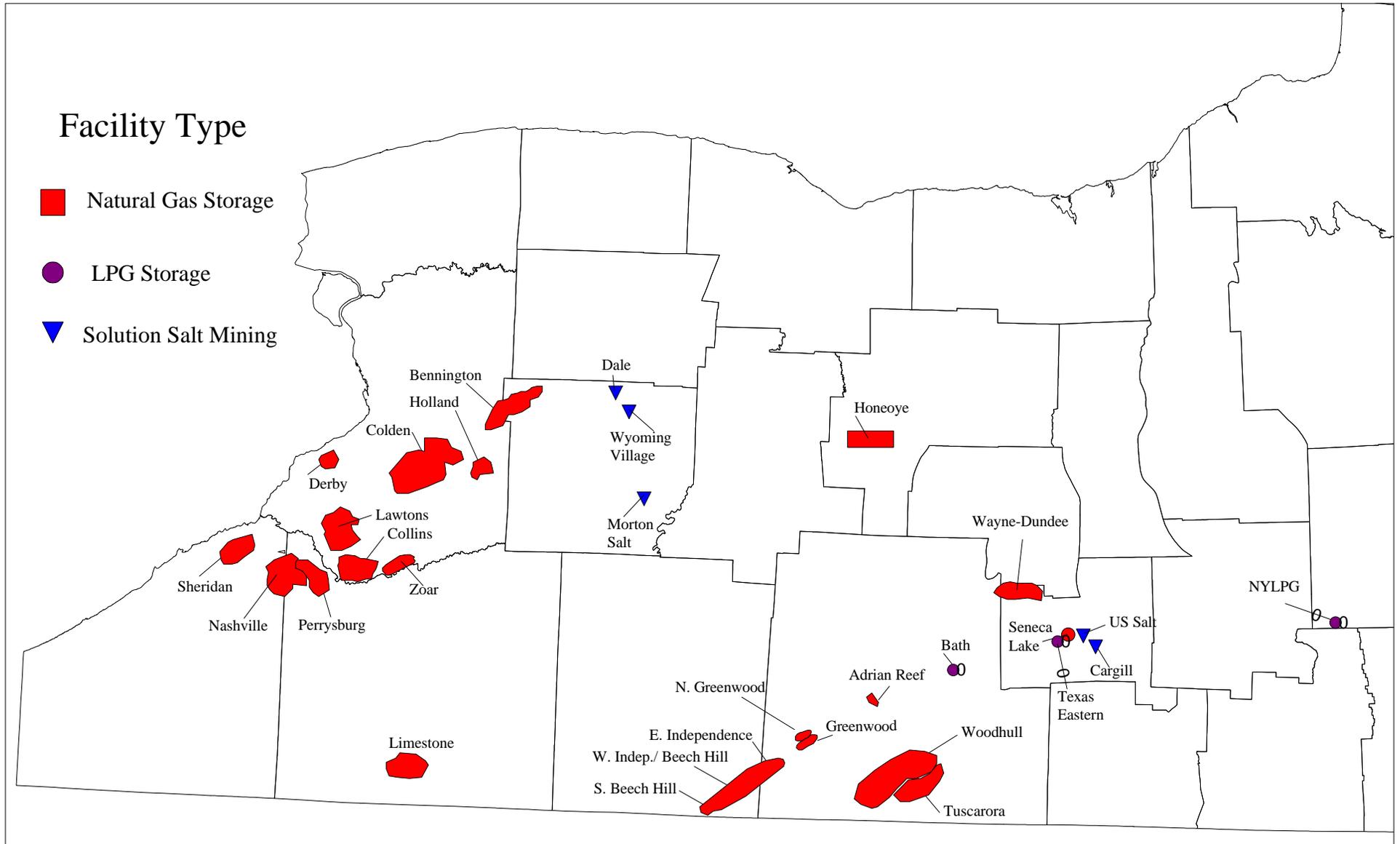
Table 7. Underground LPG Storage Summary, 1998.

BRINE DISPOSAL

The drilling of brine disposal wells greater than 500 feet deep is regulated by the Division of Mineral Resources. The underground injection for disposal of brine which originates from oil and gas production is regulated by the Department's Division of Water under its State Pollutant Discharge Elimination System program and the United States Environmental Protection Agency

(USEPA) under its Underground Injection Control Class IID well program. Injection volumes reported by the Division are based on operators' reports to the USEPA.

In 1998, New York State had twelve wells classified as brine disposal wells. Eight of the twelve wells were shut-in all year. The 1998 injection volume was 85,099 barrels, 89 percent of which was produced and reinjected at two underground gas storage facilities.



MINED LAND RECLAMATION

Steven Potter

The Department of Environmental Conservation issued a total of 514 Mined Land Reclamation permits in 1998, 88 of which were for new mines. Another 70 mines were approved for final reclamation. Total acres reclaimed for the year were 595. As of November 31, 1998, statewide Mined Land Reclamation Summary Report consisted of the following statistics:

	Total Industry	
Number of active regulated mines on record	2,463	1,814
Acreage affected	46,487	41,346
Acreage reclaimed	4,882	4,575

Total value of reclamation financial security held by the Department is \$68,875,469. Total estimated market value of minerals is \$1.5 billion.

American Rock Salt (ARS) broke ground on its new salt mine in the fall of 1998. The company is on schedule for the construction of the new underground salt mine located at Hampton Corners in the Town of Groveland, Livingston County, New York. Surface development was slowed by inclement weather, but the sinking of the shaft continued through the winter months. Service and production shafts have been excavated through the unconsolidated materials to the top of bedrock at a depth of approximately 70 feet. Archeological work has been completed on one of the three sites which require a field inspection. Remains located at the site have

slowed work on the rail spur line that will connect to the facility. ARS anticipates that the mine will start producing development salt in October 1999, and will be in full production in the year 2000.

In July of 1998, the Department received a mining termination notice from the United States Gypsum Company indicating its intention to close the underground gypsum mine in Oakfield, Genesee County, New York. It is anticipated that mine closure and final reclamation will continue through 1999 and should be finalized in the year 2000. Zinc Corporation of America (ZCA) notified the Department in August of 1998 of its intention to close and reclaim the Hyatt Mine, located in the Town Of Edwards, St. Lawrence County, New York. It is anticipated that final reclamation of the site will be completed by the fall of 1999.

Robert E. Coffin, Inc., was selected as the 1998 recipient of the annual New York State Mined Land Reclamation Award. The company was selected for outstanding reclamation of its Coffin Farm Pit #1 in Sandy Creek, Oswego County. The project was also nominated for the annual Interstate Mining Compact Commission Award for which it received a Certificate of Honorable Mention at the annual meeting in Asheville, North Carolina.

Four new Mined Land Reclamation positions were established in Regions 3, 4, 7 and 8. This brings the total of staff in the Mined Land Reclamation Program to 13.

OIL & GAS TABLES & STATISTICS

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Oil & Gas Production by Formation in Each County * 42

^ The following codes describe the well type:

BR = Brine	GE = Gas Extension	RI = Reissued
CN = Completion Report Not Received	GW = Gas Wildcat	SG = Stratigraphic
DH = Dry Hole	IW = Water Injection	SI = Shut-in
DW = Dry Wildcat	xxL = Horizontally Drilled	ST = Storage
EX = Expired	xxM = Sidetracked well	TA = Temp. Abandoned - by Application
GD = Gas Development	OD = Oil Development	TR = Transfer

* The statistics for these tables have been derived from information supplied by the producers in their annual production reports to the Division of Mineral Resources. Closing date for compilation of statistics was June 17, 1999.

DIVISION OF MINERAL RESOURCES
OIL AND GAS STATISTICS *
(1989 - 1998)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
ANNUAL PRODUCTION								Rev.	Rev.	Prelim.
OIL (1000 BBLS)	496	417	426	406	341	299	304	309	276	217
GAS (MMCF)	25,673	25,112	23,438	23,582	22,145	21,543	19,291	18,242	16,194	16,704
WELL STATISTICS										
OIL	4,043	3,906	3,619	3,761	3,783	3,670	3,208	3,464	3,446	3,724
GAS	5,411	5,536	5,757	5,866	5,986	6,019	6,216	5,868	5,739	5,903
INACTIVE OIL	1,775	1,752	1,362	939	1,137	1,326	1,117	1,648	1,265	1,560
INACTIVE GAS	845	955	707	563	505	561	667	565	709	579
STORAGE	854	854	869	865	865	876	866	868	867	885
ACTIVE BRINE	64	63	64	52	80	83	70	64	65	79 !
INACTIVE BRINE	27	28	29	16	140	80	52	61	70	57
WATER INJECTION	1,196	1,274	875	835	859	923	783	668	554	460
P&A (DURING YEAR)	260	961	376	244	263	248	219	184	141	161
NUMBER OF WELLS	14,475	15,329	13,658	13,141	13,618	13,786	13,198	13,390	12,856	13,408
DRILLING AND COMPLETIONS										
1. TOTAL WELLS SPUDDED	217	221	213	205	134	133	112	146	91	74
2. TOTAL WILDCATS	5	12	10	5	5	2	3	3	3	11
3. Discoveries	0	6	5	1	2	1	3	3	2	4
Oil Wildcat	0	0	0	0	0	0	0	0	1	0
Gas Wildcat	2	6	5	1	2	1	3	5	1	4
4. TOTAL DRY HOLES	12	16	17	17	19	7	2	4	3	9
5. Oil										
Development	28	43	51	71	26	34	20	70	29	4
Extension	0	0	0	0	0	0	0	0	0	0
6. Gas										
Development	157	132	124	73	97	50	28	29	20	31
Extension	22	10	4	1	1	1	0	1	1	6
7. INJECTION	14	1	0	0	2	0	14	0	0	0
8. DISPOSAL	0	0	0	0	0	0	0	2	0	0
9. STRATIGRAPHIC	2	3	0	0	2	41	20	0	0	0
10. SERVICE	0	0	1	1	4	0	2	0	0	0
11. BRINE	8	12	1	15	14	6	14	4	12	19
12. STORAGE	0	0	12	13	4	0	7	8	1	2
13. Total Completions (3,4,5,6,7,8,9,10,11,12)	245	223	215	192	171	140	110	123	68	75
15. TOTAL FOOTAGE (1000 FEET)	611	549	622	464	454	292	238	306	157	255
PROVEN RESERVES AT YEAR END										
GAS A. IN SITU	270,074	266,410	265,320	252,988	245,843	232,867	219,084	205,522	192,546	189,342
(MMCF) B. IN STORAGE RESERVOIRS	131,785	141,900	150,694	150,800	153,400	154,200	159,500	171,100	154,496	165,112
C. TOTAL	401,859	408,310	416,014	403,788	399,243	387,067	378,584	376,622	347,042	354,454
OIL (1000 BBLS)	2,441	2,001	2,100	2,962	2,900	2,800	2,850	2,900	2,645	2,428

! Includes unplugged Tully Valley Brine Wells for 1993 & 1994.

* Statistics for lines 2 - 15 are based upon received completions reports from the operators. Statistics computed on July 23, 1999.

Table 8. Division of Mineral Resources Oil and Gas Statistics, 1989 - 1999.

COMPLETED WILDCATS & FIELD EXTENSIONS, NEW YORK STATE, 1998**WILDCATS**

Well Name	API #	Operator	County	Formation	TD	Result
Fleming 1	31-053-21728	Nornew, Inc.	Madison	Oneida	2,649	
Warren 1	31-053-21700	Nornew, Inc.	Madison	Oneida	3,119	Discovery
Forte 1	31-097-21725	Columbia Natural Resources	Schuyler		8,275	D&A*
Faber 1	31-101-22745	Columbia Natural Resources	Steuben	Black River	7,371	Discovery
Fimlaid 1	31-101-21704	Columbia Natural Resources	Steuben	Oswego	8,028	Discovery
Grace 1	31-101-21715	Columbia Natural Resources	Steuben		7,879	D&A*
Prattsburg Town Farm 1	31-101-21707	Columbia Natural Resources	Steuben		7,718	D&A*
Demun 1	31-101-21718	True Oil Company	Steuben		11,166	D&A*
Knapp 1	31-123-22752	Columbia Natural Resources	Yates		7,543	D&A*
Sensenig 1	31-123-22743	Columbia Natural Resources	Yates		7,241	D&A*
Weitz 1	31-123-22750	Columbia Natural Resources	Yates		7,555	D&A*

FIELD EXTENSIONS

Well Name	API #	Operator	County	Formation	TD	Field
Smith 1	31-101-21705	Columbia Natural Resources	Steuben	Black River	7,110	Glodes Corners Road
Bergstresser 1	31-101-21710	Columbia Natural Resources	Steuben	Black River	6,691	Glodes Corners Road
Smith 1	31-101-22747	Columbia Natural Resources	Steuben	Black River	7,442	Muck Farm
McAllister 1	31-101-22748	Columbia Natural Resources	Steuben	Black River	7,232	Muck Farm
Snyder 1	31-101-22755	Columbia Natural Resources	Steuben	Black River	6,816	Muck Farm

* Dry & Abandoned

PERMITS ISSUED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Albany					
Guilderland	Turf Western Ave., Inc.	001 - 21007	#1	7/16/98	9/7/94
Guilderland	Turf Western Ave., Inc.	001 - 21008	#2	7/16/98	9/14/94
Guilderland	Turf Western Ave., Inc.	001 - 21009	#3	7/16/98	9/21/94
Guilderland	Turf Western Ave., Inc.	001 - 21010	#4	7/16/98	9/29/94
Guilderland	Turf Western Ave., Inc.	001 - 21011	#5	7/16/98	10/4/94
Allegany					
Independence	Klein, Roger, A.	003 - 09595	Austin-Bayard #36	5/18/98	6/15/98
Cattaraugus					
New Albion	Texas Keystone, Inc.	009 - 23280	Catt. Rod & Gun Club #2	11/13/98	4/12/99
Olean	Alma Gas, Inc.	009 - 23254	Young &4	2/26/98	3/3/98
Olean	Alma Gas, Inc.	009 - 23255	Young #3	2/26/98	3/26/98
Persia	Texas Keystone, Inc.	009 - 23281	Burr#1	11/13/98	4/19/99
Persia	Texas Keystone, Inc.	009 - 23282	Bowers #2	11/17/98	5/11/99
Persia	Texas Keystone, Inc.	009 - 23283	Bowers #3	11/17/98	5/4/99
Persia	Texas Keystone, Inc.	009 - 23284	Bowers #4	11/17/98	4/27/99
Persia	Texas Keystone, Inc.	009 - 23286	Bowers #1	12/1/98	5/19/99
Cayuga					
Aurelius	Meridian Exploration Corp.	011 - 21722	O'Hara 954-12	8/4/98	8/24/98
Aurelius	Meridian Exploration Corp.	011 - 21723	Patterson 659-05	8/4/98	8/21/98
Aurelius	Meridian Exploration Corp.	011 - 21724	Bacon 605-07	8/4/98	8/16/98
Aurelius	OI Auburn, Inc.	011 - 15705	Patterson A130-4	6/2/98	8/3/98
Aurelius	OI Auburn, Inc.	011 - 17596	Smith A118-2	6/2/98	7/30/98
Aurelius	OI Auburn, Inc.	011 - 22742	Horst A136-2	6/2/98	8/6/98
Springport	Meridian Exploration Corp.	011 - 21720	Downing 1120-09	8/4/98	8/14/98
Springport	Meridian Exploration Corp.	011 - 21721	Downing 1122-10	8/4/98	8/10/98
Chautauqua					
Carroll	Desert Gas Exploration, Inc.	013 - 23271	Johnson #1	7/3/98	7/17/98
Chautauqua	Stedman Energy, Inc.	013 - 23263	Weise #2	5/1/98	5/29/98
Clymer	Belden & Blake Corporation	013 - 23274	Rough J #1	8/13/98	10/26/98
Clymer	Lomak Operating Company	013 - 23273	Goldberg J Unit #2-L	7/23/98	8/16/98
Harmony	Stedman Energy, Inc.	013 - 23270	Lakewood Rod & Gun #1	6/22/98	7/1/98
Kiantone	Nornew, Inc.	013 - 22735	Clark #1	1/23/98	1/23/98
Pomfret	Belden & Blake Corporation	013 - 23276	Johnson #1	9/1/98	9/22/98
Pomfret	Belden & Blake Corporation	013 - 23278	Augustinians #2	9/23/98	10/6/98
Portland	Belden & Blake Corporation	013 - 23275	Duboise #2	9/1/98	9/14/98

PERMITS ISSUED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Chautauqua (Cont)					
Sherman	Lomak Operating Company	013 - 23272	Brautigam F Unit #4-L	7/23/98	8/6/98
Stockton	Belden & Blake Corporation	013 - 23277	Bissel Babcock #3	9/1/98	**/**/****
Stockton	Belden & Blake Corporation	013 - 23279	Onofrio #2	10/28/98	11/16/98
Genesee					
Pembroke	Subsea Oil & Gas, Inc.	037 - 22744	Szymanski 1	6/1/98	10/5/98
Pembroke	Subsea Oil & Gas, Inc.	037 - 22751	Staebell 3	7/22/98	9/8/98
Madison					
Eaton	Ardent Resources, Inc.	053 - 21729	Hillage 1	4/17/98	**/**/****
Eaton	Ardent Resources, Inc.	053 - 22739	Keefe 1	4/17/98	**/**/****
Eaton	Nornew, Inc.	053 - 21727	White Eagle Farms 1	4/17/98	6/1/98
Lebanon	Nornew, Inc.	053 - 21728	Fleming 1	4/17/98	5/9/98
Lebanon	Nornew, Inc.	053 - 21730	Beers 2	4/17/98	5/14/98
Lebanon	Nornew, Inc.	053 - 22738	Ogden 1	4/17/98	5/26/98
Schuyler					
Hector	Columbia Natural Resources	097 - 22754	Gunning 1	8/31/98	10/2/98
Tyrone	Columbia Natural Resources	097 - 21725	Forte 1	3/16/98	5/7/98
Tyrone	Columbia Natural Resources	097 - 21726	Mast 1	3/16/98	3/30/98
Tyrone	Columbia Natural Resources	097 - 22740	Dean 1	4/29/98	**/**/****
Seneca					
Fayette	Meridian Exploration Corp.	099 - 22761	Poorman 2586-01	11/9/98	11/24/98
Fayette	Meridian Exploration Corp.	099 - 22762	Schaffer 2584-03	11/17/98	12/9/98
Fayette	Meridian Exploration Corp.	099 - 22763	Murray 2587-01	11/9/98	11/11/98
Steuben					
Cohocton	Columbia Natural Resources	101 - 22758	S & D Farms 623504	10/22/98	1/28/99
Cohocton	Columbia Natural Resources	101 - 22759	S & D Farms 623144	10/22/98	11/18/98
Cohocton	Columbia Natural Resources	101 - 22760	Wolcott 623284	10/22/98	11/28/98
Cohocton	Columbia Natural Resources	101 - 22766	Peck 1 (623516)	11/13/98	**/**/****
Prattsburg	Columbia Natural Resources	101 - 21707	Prattsburg Town Farm 1	3/16/98	8/26/98
Prattsburg	Columbia Natural Resources	101 - 21712	Kozak 1	3/16/98	8/31/98
Prattsburg	Columbia Natural Resources	101 - 21715	Grace 1	5/13/98	7/13/98
Prattsburg	Columbia Natural Resources	101 - 22745	Faber 1	6/11/98	10/5/98
Prattsburg	Columbia Natural Resources	101 - 61597	Kozak 1	3/16/98	8/26/98
Pulteney	Columbia Natural Resources	101 - 21706	Fox 1 (623217)	5/4/98	8/6/98
Pulteney	Columbia Natural Resources	101 - 22741	Vonrhedey 1	10/7/98	11/4/98

PERMITS ISSUED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Steuben (Cont)					
Pulteney	Columbia Natural Resources	101 - 22747	Smith 1	6/22/98	10/10/98
Pulteney	Columbia Natural Resources	101 - 22748	McAllister 1	6/22/98	10/21/98
Pulteney	Columbia Natural Resources	101 - 22755	Snyder 1	9/1/98	10/27/98
Pulteney	Columbia Natural Resources	101 - 22756	Grand View 1	10/7/98	10/30/98
Pulteney	Columbia Natural Resources	101 - 22765	Wise 1 (623520)	11/13/98	12/7/98
Tompkins					
Dryden	Columbia Natural Resources	109 - 21716	Stairs 1	7/31/98	9/12/98
Ulysses	Columbia Natural Resources	109 - 22753	Koskinen 623513	11/25/98	12/20/98
Ulysses	Columbia Natural Resources	109 - 22767	Duddleston 623514	12/23/98	2/6/99
Wyoming					
Gainesville	Amoco Oil Company	121 - 23253	Pac #1	11/20/98	3/8/98
Gainesville	Amoco Oil Company	121 - 23256	Pac #2	11/20/98	4/14/98
Gainesville	Morton International, Inc.	121 - 22729	Morton Salt #41	3/11/98	5/26/98
Gainesville	Morton International, Inc.	121 - 22730	Morton Salt #42	3/11/98	5/4/98
Middlebury	Texas Brine Corp.	121 - 23257	Hooker #99	3/30/98	6/25/98
Middlebury	Texas Brine Corp.	121 - 23258	Hooker #100	4/6/98	6/19/98
Middlebury	Texas Brine Corp.	121 - 23259	Hooker #111	3/30/98	6/2/98
Middlebury	Texas Brine Corp.	121 - 23260	Hooker #112	3/30/98	5/27/98
Middlebury	Texas Brine Corp.	121 - 23261	Hooker #144	3/30/98	6/13/98
Middlebury	Texas Brine Corp.	121 - 23262	Hooker #145	3/30/98	6/7/98
Middlebury	Texas Brine Corp.	121 - 23264	Texas Brine Corp. #37	6/5/98	8/25/98
Middlebury	Texas Brine Corp.	121 - 23265	Texas Brine Corp. #40	6/5/98	8/16/98
Middlebury	Texas Brine Corp.	121 - 23266	Texas Brine Corp. #41	6/5/98	7/29/98
Middlebury	Texas Brine Corp.	121 - 23267	Texas Brine Corp. #42	6/5/98	8/9/98
Middlebury	Texas Brine Corp.	121 - 23268	Texas Brine Corp. #80	6/5/98	7/15/98
Middlebury	Texas Brine Corp.	121 - 23269	Texas Brine Corp. #81	6/5/98	7/8/98
Yates					
Barrington	Columbia Natural Resources	123 - 22746	Dewitt 1	6/11/98	7/2/98
Barrington	Columbia Natural Resources	123 - 22750	Weitz 1	7/2/98	7/22/98
Barrington	Columbia Natural Resources	123 - 22752	Knapp 1	7/28/98	8/14/98
Italy	Belden & Blake Corporation	123 - 22757	NYS Reforestation Area 1	10/22/98	11/11/98
Italy	Belden & Blake Corporation	123 - 22764	Costanza 1	11/19/98	**/**/****
Starkey	Columbia Natural Resources	123 - 22743	Sensenig 1	5/20/98	6/9/98

Table 10. Permits Issued During 1998.

WELLS COMPLETED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	TD	COMPL DATE	WELL FIELD/ TYPE	POOL
Allegany							
Bolivar	Plants & Goodwin	003 - 22714	Green #294	1,350	05/21/98	OD	Richburg
Cattaraugus							
Olean	Alma Gas, Inc.	009 - 23250	Young #2	868	02/18/98	GD	Olean
Olean	Alma Gas, Inc.	009 - 23255	Young #3	1,043	06/30/98	GD	Olean
Olean	Alma Gas, Inc.	009 - 23254	Young #4	1,600	06/05/98	GD	Olean
Olean	Alma Gas, Inc.	009 - 23248	Young#1	858	01/25/98	GD	Olean
Persia	Studley, Bertha E.	009 - 23249	Fee #1	3,726	01/27/98	GW	Snyders Corners
Cayuga							
Aurelius	Meridian Exploration Corp.	011 - 21724	Bacon 605-07	1,879	11/05/98	GD	West Auburn
Aurelius	Meridian Exploration Corp.	011 - 21722	O'Hara 954-12	1,912	10/20/98	GD	West Auburn
Aurelius	Meridian Exploration Corp.	011 - 21723	Patterson 659-05	1,875	10/14/98	GD	West Auburn
Aurelius	OI Auburn, Inc.	011 - 22742	Horst A136-2	1,878	10/09/98	GD	West Auburn
Aurelius	OI Auburn, Inc.	011 - 15705	Patterson A130-4	1,883	10/23/98	GD	West Auburn
Aurelius	OI Auburn, Inc.	011 - 17596	Smith A118-2	1,879	10/16/98	GD	West Auburn
Springport	Meridian Exploration Corp.	011 - 21720	Downing 1120-09	1,967	11/05/98	GD	West Auburn
Springport	Meridian Exploration Corp.	011 - 21721	Downing 1122-10	1,916	11/05/98	GD	West Auburn
Chautauqua							
Busti	Libra Petroleum Co.	013 - 22601	Crandall, L #39	675	10/16/98	OD	Busti
Carroll	Desert Gas Exploration, Inc.	013 - 23271	Johnson #1	4,417	10/31/98	GD	Lakeshore
Chautauqua	Stedman Energy, Inc.	013 - 23263	Weise #2	3,304	06/16/98	GD	Lakeshore
Clymer	Lomak Operating Company	013 - 23273	Goldberg J Unit #2-L	4,503	09/28/98	GD	Lakeshore
Harmony	Stedman Energy, Inc.	013 - 23270	Lakewood Rod & Gun #1	4,415	07/17/98	GD	Lakeshore
Kiantone	Nornew, Inc.	013 - 22735	Clark #1	4,692	02/09/98	GD	Lakeshore
North Harmony	CEI 1992-93 Joint Venture	013 - 22498	Butts 1-B	7,620	08/04/98	DH	Lakeshore
North Harmony	Resource America, Inc.	013 - 22005 - 01	Maring #3B	2,917	09/24/98	ODM	North Harmony
Pomfret	Belden & Blake Corporation	013 - 23276	Johnson #1	3,182	10/08/98	GD	Lakeshore
Pomfret	Belden & Blake Corporation	013 - 23278	Augustinians #2	3,227	11/04/98	GD	Lakeshore
Portland	Belden & Blake Corporation	013 - 23275	Duboise #2	3,348	09/25/98	GD	Lakeshore
Sherman	Lomak Operating Company	013 - 23272	Brautigam F Unit #4-L	4,352	09/21/98	GD	Lakeshore
Stockton	Belden & Blake Corporation	013 - 23279	Onofrio #2	3,576	12/04/98	GD	Lakeshore
Westfield	Belden & Blake Corporation	013 - 23247	Hayner #2	5,953	05/12/98	GD	Lakeshore
Genesee							
Pembroke	Subsea Oil & Gas, Inc.	037 - 22751	Staebell 3	1,055	10/08/98	GD	Alden-Lancaster
Pembroke	Subsea Oil & Gas, Inc.	037 - 22744	Szymanski 1	1,081	10/23/98	GD	Alden-Lancaster

WELLS COMPLETED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	TD DATE	COMPL DATE	WELL TYPE	FIELD/ POOL
Madison							
Lebanon	Nornew, Inc.	053 - 21730	Beers 2	2,880	05/21/98	GD	NPA *
Lebanon	Nornew, Inc.	053 - 21728	Fleming 1	2,649	06/05/98	GW	NPA *
Lebanon	Nornew, Inc.	053 - 22738	Ogden 1	3,105	11/11/98	GD	Bradley Brook
Lebanon	Nornew, Inc.	053 - 21700	Warren 1	3,119	01/13/98	GW	Bradley Brook
Schuyler							
Tyrone	Columbia Natural Resources	097 - 21725	Forte 1	8,275	06/01/98	DW	
Steuben							
Canisteo	Steuben Gas Storage Co.	101 - 21449	Adrian 9	4,705	07/31/98	STL	Adrian Storage
Prattsburg	Columbia Natural Resources	101 - 21707	Prattsburg Town Farm 1	7,718	09/20/98	DW	
Prattsburg	Columbia Natural Resources	101 - 21707 - 01	Prattsburg Town Farm 1	8,050	09/30/98	DW	
Prattsburg	Columbia Natural Resources	101 - 21712	Kozak 1	7,690	10/29/98	GD	Glodes Corners Road
Prattsburg	Columbia Natural Resources	101 - 21715	Grace 1	7,879	08/22/98	DW	
Prattsburg	Columbia Natural Resources	101 - 22745	Faber 1	7,371	11/11/98	GW	Muck Farm
Prattsburg	Columbia Natural Resources	101 - 61597	Kozak 1	574	09/04/98	DH	Glodes Corners Road
Pulteney	Columbia Natural Resources	101 - 21705	Smith 1	7,110	01/02/98	GE	Glodes Corners Road
Pulteney	Columbia Natural Resources	101 - 21706	Fox 1 (623217)	7,048	09/16/98	GD	Glodes Corners Road
Pulteney	Columbia Natural Resources	101 - 21710	Bergstresser 1	6,691	01/25/98	GE	Glodes Corners Road
Pulteney	Columbia Natural Resources	101 - 22741 - 01	Vonrhedey 1	7,785	12/08/98	DW	
Pulteney	Columbia Natural Resources	101 - 22747	Smith 1	7,442	11/20/98	GE	Muck Farm
Pulteney	Columbia Natural Resources	101 - 22748	McAllister 1	7,232	11/20/98	GE	Muck Farm
Pulteney	Columbia Natural Resources	101 - 22755	Snyder 1	6,816	12/08/98	GE	Muck Farm
Troupsburg	True Oil Company	101 - 21718	Demun 1	11,166	02/16/98	DW	
Wayne	Columbia Natural Resources	101 - 21704	Fimlaid 1	8,028	04/10/98	GW	NPA *
Tioga							
Nichols	Belden & Blake Corporation	107 - 21708	Waite 1	5,264	01/22/98	GD	Stagecoach
Wyoming							
Gainesville	Amoco Oil Company	121 - 23253	Pac #1	2,407	03/25/98	ST	Silver Springs
Gainesville	Amoco Oil Company	121 - 23256	Pac #2	2,345	04/27/98	ST	Silver Springs
Gainesville	Morton International, Inc.	121 - 22729	Morton Salt #41	5,368	06/18/98	BRL	Morton Salt
Gainesville	Morton International, Inc.	121 - 22730	Morton Salt #42	2,691	05/21/98	BRL	Morton Salt
Middlebury	Texas Brine Corp.	121 - 23258	Hooker #100	1,661	10/13/98	BR	Dale
Middlebury	Texas Brine Corp.	121 - 23259	Hooker #111	1,486	10/28/98	BR	Dale
Middlebury	Texas Brine Corp.	121 - 23260	Hooker #112	1,480	10/30/98	BR	Dale
Middlebury	Texas Brine Corp.	121 - 22727	Hooker #132	1,506	01/04/98	BR	Dale
Middlebury	Texas Brine Corp.	121 - 22728	Hooker #133	1,513	01/05/98	BR	Dale
Middlebury	Texas Brine Corp.	121 - 23257	Hooker #99	1,665	10/13/98	BR	Dale

WELLS COMPLETED DURING 1998

TOWN	OWNER	API NUMBER	WELL NAME	TD	COMPL DATE	WELL TYPE	FIELD/ POOL
Wyoming (Cont)							
Middlebury	Texas Brine Corp.	121 - 22689	Texas Brine #31	1,599	01/16/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 22690	Texas Brine #34	1,560	01/16/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 22691	Texas Brine #35	1,595	01/16/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 22692	Texas Brine #36	1,590	01/16/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 23266	Texas Brine Corp. #41	1,702	12/02/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 23267	Texas Brine Corp. #42	1,690	11/30/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 23268	Texas Brine Corp. #80	1,492	12/10/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 23269	Texas Brine Corp. #81	1,445	12/10/98	BR	Wyoming
Middlebury	Texas Brine Corp.	121 - 23265	Texas Brine Corp.#40	1,709	12/03/98	BR	Wyoming
Yates							
Barrington	Columbia Natural Resources	123 - 22752	Knapp 1	7,543	10/07/98	DW	
Barrington	Columbia Natural Resources	123 - 22750	Weitz 1	7,555	09/23/98	DW	
Starkey	Columbia Natural Resources	123 - 22743	Sensenig 1	7,241	07/20/98	DW	

* NPA - None Presently Assigned

Table 11. Wells completed During 1998.

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Allegany County								
Alfred	0	0	0	0	0	0	2	0
Allegany	308	0	30	8	13	0	0	0
Allen	0	9,683	4	0	0	1	0	0
Alma	6,768	93,174	2,491	195	117	31	5	30
Almond	0	3,105	0	0	0	1	0	0
Amity	84	40,405	438	4	9	2	2	0
Andover	4,898	4,077	72	90	18	1	0	0
Bolivar	23	0	0	1	0	0	0	0
Bolivar	7,730	333	275,771	388	270	0	0	175
Centerville	0	0	0	0	0	0	1	0
Clarksville	596	150	200	15	4	0	0	0
Friendship	21	19	37	1	0	1	0	0
Genesee	933	762	1,291	97	111	2	4	60
Independence	17,561	64,456	47,170	240	21	4	5	12
New Hudson	0	0	0	0	0	0	1	0
Olean	0	156	0	10	0	0	0	0
Rushford	0	0	0	0	0	0	1	0
Scio	212	19,971	752	454	101	3	6	0
Ward	0	210	0	0	0	3	0	0
Wellsville	3,784	439	200	103	13	3	2	0
Willing	0	281,998	0	3	16	5	8	0
Wirt	1,140	4	1,784	137	58	0	1	0
County Total	44,058	518,942	330,240	1,746	751	57	38	277
Cattaraugus County								
Allegany	35,884	1,720	391,297	691	134	3	1	126
Ashford	1,587	25,465	11	1	0	15	2	0
Carrollton	33,038	40,180	7,188	601	144	5	0	29
Cold Spring	0	0	0	0	0	0	5	0
Conewango	0	204,872	0	0	0	76	1	0
Dayton	0	52,627	56	0	0	45	2	0
East Otto	0	3,388	32	0	0	6	2	0
Ellicottville	0	8,184	0	0	0	14	2	0
Farmersville	50	0	50	3	1	0	2	0
Freedom	3,602	6,657	0	1	0	10	3	0
Great Valley	0	891	0	0	0	1	0	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Cattaraugus County (Cont)								
Hinsdale	20	0	1	4	0	0	0	0
Leon	0	453,645	29	0	0	74	4	0
Little Valley	0	200	0	0	0	2	0	0
Machias	0	110	0	0	0	1	1	0
Mansfield	0	0	0	0	0	1	0	0
Napoli	0	4,497	0	0	0	3	0	0
New Albion	0	11,958	0	0	0	10	4	0
Olean	4,690	926	2,189	144	57	4	0	8
Otto	0	95,012	66	0	0	58	2	0
Perrysburg	0	2,091	0	0	0	10	0	0
Persia	0	206,072	27	0	0	84	7	0
Portville	51	0	0	5	0	0	0	0
Randolph	414	109,571	0	1	0	84	1	0
South Valley	0	1,519	0	0	0	2	0	0
Yorkshire	0	31,411	7	0	0	18	1	0
County Total	79,336	1,260,996	400,953	1,451	336	526	40	163
Cayuga County								
Auburn	0	6,650	0	0	0	1	0	0
Aurelius	0	599,333	11,075	0	0	142	1	1
Cato	0	0	0	0	0	1	0	0
Fleming	0	108,784	4,492	0	0	31	2	0
Ledyard	0	1	0	0	0	2	0	0
Owasco	0	0	0	0	0	2	1	0
Scipio	0	0	0	0	0	0	1	0
Sennett	0	5,654	0	0	0	2	0	0
Springport	0	522,748	7,674	0	0	112	5	0
Throop	0	8,688	0	0	0	9	0	0
County Total	0	1,251,858	23,241	0	0	302	10	1
Chautauqua County								
Andover	200	0	3	8	0	0	0	0
Arkwright	0	202,481	1,741	0	0	104	6	0
Busti	20,297	396,822	1,916	331	78	158	17	0
Carroll	0	97,682	4	0	3	52	2	0
Charlotte	996	130,242	1,986	1	0	91	6	0
Chautauqua	0	664,995	2,932	0	0	295	25	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Chautauqua County (Cont)								
Cherry Creek	0	153,424	792	0	0	116	7	0
Clymer	2,247	476,191	1,042	3	2	105	20	0
Dunkirk	0	102,568	1,456	3	0	42	4	0
Ellery	2,907	417,937	4,983	2	4	114	14	0
Ellicott	0	157,187	322	0	0	53	2	0
Ellington	0	212,532	175	0	0	166	14	0
French Creek	0	40,832	0	0	8	39	18	0
Gerry	9,935	288,646	13,206	17	6	125	24	0
Hanover	0	136,894	3,537	0	0	73	8	0
Harmony	0	302,171	2,669	0	0	101	13	0
Jamestown	0	15,530	0	0	0	4	0	0
Kiantone	0	311,946	0	0	0	41	0	0
Mina	0	99,004	1,225	0	0	43	1	0
North Harmony	5,051	389,866	13,911	16	0	138	11	0
Poland	0	274,444	72	0	0	109	1	0
Pomfret	1	329,017	4,340	1	0	175	7	0
Portland	0	289,481	409	0	0	134	6	0
Ripley	0	311,753	1,403	0	0	209	13	0
Sheridan	0	176,696	2,766	0	0	83	11	0
Sherman	746	246,726	3,648	1	0	71	9	0
Stockton	0	242,679	1,904	0	0	95	3	0
Villanova	0	145,950	1,571	0	0	73	8	0
Westfield	0	613,593	3,916	0	0	250	10	0
County Total	42,380	7,227,289	71,929	383	101	3,059	260	0
Chemung County								
Elmira	0	2,051	0	0	0	1	0	0
Van Etten	0	150	0	0	0	3	2	0
County Total	0	2,201	0	0	0	4	2	0
Delaware County								
Hancock	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Erie County								
Alden	0	82,767	9	0	0	52	8	0
Aurora	0	100,688	35	0	0	43	14	0
Boston	0	24,733	305	0	0	32	2	0
Brant	0	164,394	1,395	0	0	94	7	0
Buffalo	0	0	0	0	0	2	0	0
Caledonia	0	0	0	0	0	0	1	0
Cheektowaga	0	5,447	6	0	0	11	1	0
Clarence	0	233	1	0	0	6	2	0
Colden	0	4,319	3	0	0	11	0	0
Collins	0	4,459	14	0	0	4	1	0
Concord	0	160,845	465	0	0	52	1	0
Eden	0	141,590	1,647	0	0	132	6	0
Elma	0	140,807	586	0	0	50	10	0
Evans	0	156,436	1,018	0	0	83	12	0
Hamburg	0	81,090	54	0	0	44	7	0
Holland	0	0	0	0	0	1	2	0
Lackawanna	0	1,052	0	0	0	2	1	0
Lancaster	0	44,674	29	0	0	25	5	0
Marilla	0	32,561	389	0	0	28	8	0
Newstead	0	118,435	3	0	0	48	13	0
North Collins	0	45,692	280	0	0	57	5	0
Orchard Park	61	50,300	21	1	0	38	2	0
Sardinia	0	23,485	0	0	0	11	1	0
Tonawanda	0	0	0	0	0	1	1	0
Wales	0	9,562	221	0	0	4	7	0
West Seneca	0	45,874	3	0	0	5	0	0
County Total	61	1,439,443	6,484	1	0	836	117	0
Genesee County								
Alabama	0	27,190	399	0	0	27	0	0
Alexander	0	66,253	864	0	0	41	0	0
Batavia	0	60,597	480	0	0	42	1	0
Bergen	0	61,124	0	0	0	2	0	0
Bethany	0	25,603	1,591	0	0	29	1	0
Darien	0	431,264	2,202	0	0	203	7	0
Elba	0	1,877	84	0	0	1	0	0
Le Roy	0	46,883	0	0	0	7	0	0
Oakfield	0	15,928	135	0	0	13	0	0
Pavilion	0	17,392	258	0	0	16	3	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Genesee County (Cont)								
Pembroke	0	208,260	1,698	0	0	111	0	0
Stafford	0	280	0	0	0	1	1	0
County Total	0	962,651	7,711	0	0	493	13	0
Livingston County								
Avon	0	16,581	0	0	0	13	0	0
Caledonia	0	53,464	845	0	0	49	0	0
Groveland	0	0	0	0	0	2	1	0
Leicester	0	44,961	0	0	0	22	5	0
Nunda	0	0	0	0	0	1	0	0
Ossian	0	0	0	0	0	1	0	0
Portage	0	898	0	0	0	2	0	0
Sparta	0	0	0	0	0	1	0	0
West Sparta	0	50	0	0	0	6	0	0
York	0	44,685	1,105	0	0	48	2	0
County Total	0	160,639	1,950	0	0	145	8	0
Madison County								
Brookfield	0	0	0	0	0	1	0	0
Eaton	0	7,825	0	0	0	1	1	0
Lebanon	0	78,793	0	0	0	7	1	0
County Total	0	86,618	0	0	0	9	2	0
Niagara County								
Lewiston	0	1,500	0	0	0	1	0	0
County Total	0	1,500	0	0	0	1	0	0
Oneida County								
Sangerfield	0	0	0	0	0	1	0	0
County Total	0	0	0	0	0	1	0	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Onondaga County								
Camillus	0	0	0	0	0	0	1	0
Lysander	0	0	0	0	0	1	1	0
County Total	0	0	0	0	0	1	2	0
Ontario County								
Bristol	0	12,219	0	0	0	4	0	0
Canandaigua	0	0	0	0	0	1	0	0
East Bloomfield	0	57,017	0	0	0	11	2	0
Geneva	0	250	0	0	0	2	1	0
Phelps	0	0	0	0	0	0	1	0
Richmond	0	958	0	0	0	2	0	0
West Bloomfield	0	2,082	0	0	0	2	0	0
County Total	0	72,526	0	0	0	22	4	0
Oswego County								
Richland	0	1	0	0	0	4	4	0
West Monroe	0	0	0	0	0	1	0	0
Williamstown	0	100	0	0	0	1	1	0
County Total	0	101	0	0	0	6	5	0
Schuyler County								
Cayuta	0	0	0	0	0	0	1	0
Dix	0	0	0	0	0	0	1	0
Tyrone	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	3	0
Seneca County								
Fayette	0	401,895	8,989	0	0	96	4	0
Junius	0	0	0	0	0	1	0	0
Seneca	0	1	0	0	0	1	0	0
Seneca Falls	0	2,591	0	0	0	1	0	0
Varick	0	175,340	4,168	0	0	43	0	0
Waterloo	0	0	0	0	0	0	1	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Seneca County (Cont)								
County Total	0	579,827	13,157	0	0	142	5	0
Steuben County								
Addison	0	0	0	0	0	0	1	0
Avoca	0	1,678	0	0	0	2	0	0
Bath	0	18,839	0	0	0	2	0	0
Cameron	0	0	0	0	0	2	0	0
Canisteo	0	0	0	0	0	0	1	0
Dansville	0	15,485	0	0	0	1	0	0
Erwin	0	0	0	0	0	0	2	0
Greenwood	27	121	8	3	1	2	0	0
Hartsville	0	0	0	0	0	1	2	0
Hornby	0	1,819	120	0	0	1	1	0
Hornellsville	0	5,239	0	0	0	1	0	0
Howard	0	686	0	0	0	3	0	0
Jasper	0	46,006	0	0	0	3	5	0
Prattsburg	0	594,582	4	0	0	1	2	0
Pulteney	0	971,938	8	0	0	6	3	0
Troupsburg	0	0	0	0	0	0	1	0
Wayne	0	0	0	0	0	0	1	0
West Union	16,877	31,645	24,119	140	371	1	2	19
County Total	16,904	1,688,038	24,259	143	372	26	21	19
Tioga County								
Nichols	0	492,380	469	0	0	6	0	0
Owego	0	452,201	331	0	0	7	1	0
County Total	0	944,581	800	0	0	13	1	0
Tompkins County								
Dryden	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0

1998 Oil and Gas Production by Town in Each County

Town	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Wayne County								
Butler	0	5	0	0	0	1	0	0
County Total	0	5	0	0	0	1	0	0
Wyoming County								
Arcade	0	160,031	187	0	0	38	2	0
Attica	0	1,600	0	0	0	2	0	0
Bennington	0	170,745	2,713	0	0	87	2	0
Castile	0	14,398	0	0	0	4	0	0
Covington	0	39,663	415	0	0	21	5	0
Gainesville	0	0	0	0	0	0	1	0
Genesee Falls	0	0	0	0	0	0	1	0
Java	0	2,097	35	0	0	9	14	0
Middlebury	0	0	0	0	0	0	8	0
Perry	0	62,198	725	0	0	42	3	0
Pike	0	2,500	0	0	0	1	0	0
Sheldon	0	46,898	33	0	0	40	0	0
Warsaw	0	4,784	0	0	0	5	1	0
County Total	0	504,914	4,108	0	0	249	37	0
Yates County								
Barrington	0	0	0	0	0	0	1	0
Benton	0	2,076	0	0	0	9	2	0
Milo	0	0	0	0	0	1	2	0
Potter	0	0	0	0	0	0	1	0
Torrey	0	0	0	0	0	0	1	0
County Total	0	2,076	0	0	0	10	7	0
State Total	182,739	16,704,205	884,832	3,724	1,560	5,903	577	460

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Allegany County								
Alfred	0	210	0	0	0	3	1	0
Allen	0	9,683	4	0	0	1	0	0
Andover	86	0	4	7	0	0	0	0
Beech Hill-Independence	18,058	64,718	47,180	258	20	7	7	12
Bradford	0	156	120	10	14	0	0	0
Browning	135	0	0	447	17	0	0	0
Ceres	1,299	0	3,600	15	2	0	1	0
Clarksville	596	0	200	10	4	0	0	0
Corbin Hill	0	0	0	0	9	0	0	0
Farmersville	0	0	0	0	0	0	1	0
Ford'S Brook	175	25	18	61	75	2	0	15
Friendship	0	19	0	0	0	1	0	0
Fulmer Valley	7,983	3,964	256	176	34	0	2	0
Gilbert	0	0	0	0	0	0	1	0
Gordon Brook	0	60,376	1,130	0	0	5	6	0
Karr Valley	0	3,105	0	0	0	1	0	0
Nile	31	4	47	15	0	0	0	0
Richburg	15,503	11,510	276,926	743	576	4	3	250
Scio	84	0	0	4	0	0	0	0
Sharon	0	5,121	0	0	0	26	1	0
Sherry Hill	0	0	0	0	0	0	1	0
State Line	0	360,051	728	0	0	7	10	0
Unnamed	0	0	0	0	0	0	4	0
County Total	43,950	518,942	330,213	1,746	751	57	38	277
Cattaraugus County								
Ashford	0	22,227	10	0	0	13	2	0
Bixby Hill	3,602	3,476	0	1	0	0	0	0
Bradford	46,644	18,514	368,772	852	115	1	0	120
Bryant Hill Creek	0	0	0	0	0	3	0	0
Chaffee-Arcade	0	34,592	7	0	0	23	2	0
Chipmunk	19,568	21,773	29,212	289	122	7	1	36
Connoisarauley Creek	0	0	0	0	0	1	0	0
Dayton	0	9,682	11	0	0	6	1	0
Dublin Hollow	0	0	0	0	0	1	0	0
Dutch Hill	1,587	3,238	1	1	0	1	0	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Cattaraugus County (Cont)								
East Otto	0	0	0	0	0	0	2	0
Ellicottville	0	8,184	0	0	0	11	2	0
Farmersville	50	0	50	3	1	0	0	0
Five Mile	7,069	1,706	2,496	245	69	0	0	7
Four Mile	710	0	225	67	29	0	0	0
Great Valley	0	891	0	0	0	1	0	0
Hog Hollow	0	110	0	0	0	1	3	0
Hotchkiss Hollow	0	0	0	0	0	0	5	0
Indian Creek	0	0	0	0	0	1	0	0
Jersey Hollow	0	0	0	0	0	1	0	0
Lakeshore	0	1,084,415	104	0	0	425	14	0
Little Valley	0	200	0	0	0	1	0	0
Pigeon Hill	0	0	0	0	0	5	1	0
Unnamed	414	9,639	0	1	0	6	6	0
Utley Brook	0	42,349	95	0	0	18	1	0
County Total	79,644	1,260,996	400,983	1,459	336	526	40	163
Cayuga County								
Ashland Farms	0	0	0	0	0	1	0	0
Auburn	0	20,630	0	0	0	4	1	0
Auburn Geothermal	0	6,650	0	0	0	1	0	0
Blue Tail Rooster	0	0	0	0	0	1	0	0
Wells College	0	1	0	0	0	1	0	0
West Auburn	0	1,224,577	23,241	0	0	294	9	1
County Total	0	1,251,858	23,241	0	0	302	10	1
Chautauqua County								
Busti	17,032	18,594	513	326	78	58	0	0
Carroll	0	0	0	0	3	0	1	0
Cassadaga Creek	0	2,758	19	0	0	1	0	0
Clymer	2,247	3,315	942	2	0	2	0	0
Clymer Hill	0	0	0	0	1	0	0	0
Conewango Creek	0	0	0	0	0	1	0	0
Ellery	2,907	18,105	1,491	2	4	13	7	0
Folsom Creek	0	1,004	0	1	0	1	0	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Chautauqua County (Cont)								
Fredonia	1	0	0	1	0	0	0	0
Gerry-Charlotte	10,329	58,303	6,890	16	6	9	3	0
Harmony	746	866	575	2	0	0	0	0
Kelly Hill	0	4,120	0	0	0	1	0	0
Lakeshore	758	7,051,480	57,670	5	9	2,950	242	0
Mud Creek	0	8	0	0	0	1	0	0
North Harmony	4,895	37,515	3,824	15	0	15	3	0
Sprague Hill	0	16,943	2	0	0	4	0	0
Unnamed	3,265	14,278	0	5	0	3	4	0
County Total	42,180	7,227,289	71,926	375	101	3,059	260	0
Chemung County								
Doolittle Hill	0	0	0	0	0	1	0	0
Elmira	0	2,051	0	0	0	1	0	0
Van Etten	0	150	0	0	0	2	2	0
County Total	0	2,201	0	0	0	4	2	0
Delaware County								
Unnamed	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0
Erie County								
Akron	0	67,735	0	0	0	22	6	0
Alden-Lancaster	0	180,318	48	0	0	117	23	0
Brant-Eden	0	362,600	3,290	0	0	284	15	0
Buffalo	0	4,625	0	0	0	11	3	0
Buffalo Creek	0	33,810	596	0	0	25	5	0
Central Wales	0	0	0	0	0	0	7	0
Chaffee-Arcade	0	2,736	0	0	0	1	1	0
Chestnut Ridge	0	809	0	0	0	1	0	0
Clarence	0	30	0	0	0	1	1	0
Concord	0	143,400	425	0	0	39	1	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Erie County (Cont)								
Concord-Onondaga	0	0	0	0	0	1	0	0
Cowlesville	0	4,588	13	0	0	7	4	0
East Aurora	0	109,106	35	0	0	43	11	0
Elma	0	116,899	386	0	0	40	8	0
Glenwood	0	2,824	3	0	0	7	2	0
Lakeshore	0	199	0	0	0	1	0	0
Lakeview	0	162,469	1,160	0	0	86	19	0
North Collins	0	55,426	274	0	0	58	5	0
Orchard Park-Hamburg	0	98,666	71	0	0	57	3	0
Sardinia	0	31,064	0	0	0	20	0	0
South Wales	0	0	0	0	0	1	0	0
Travers	61	0	0	1	0	0	0	0
Unnamed	0	0	0	0	0	0	0	0
Wales	0	7,415	176	0	0	1	1	0
West Seneca	0	54,724	7	0	0	13	1	0
County Total	61	1,439,443	6,484	1	0	836	116	0
Genesee County								
Akron	0	200	0	0	0	1	0	0
Alden-Lancaster	0	317,263	606	0	0	145	3	0
Alexander	0	8,190	7	0	0	6	0	0
Bergen	0	61,124	0	0	0	2	0	0
Bethany	0	25,303	1,591	0	0	28	1	0
Danley Corners	0	47,413	429	0	0	21	2	0
Ellicott Creek	0	0	0	0	0	0	2	0
Huron Creek	0	324,631	3,590	0	0	173	0	0
Indian Falls	0	113,672	1,230	0	0	92	1	0
Pavilion	0	301	0	0	0	5	1	0
Roanoke	0	4,132	8	0	0	3	3	0
Uhley Corners-Caledonia	0	60,422	250	0	0	17	1	0
County Total	0	962,651	7,711	0	0	493	14	0
Livingston County								
Avon	0	16,581	0	0	0	13	0	0
Dansville	0	50	0	0	0	7	0	0
Finnegan Hill	0	16,481	80	0	0	10	0	0
Groveland	0	0	0	0	0	2	1	0
Hunt Hollow	0	898	0	0	0	4	0	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Livingston County (Cont)								
Leicester	0	10,153	0	0	0	12	4	0
Silver Lake	0	34,858	0	0	0	11	1	0
Uhley Corners-Caledonia	0	81,618	1,870	0	0	86	2	0
County Total	0	160,639	1,950	0	0	145	8	0
Madison County								
Lebanon	0	28,095	0	0	0	4	0	0
Sangerfield	0	0	0	0	0	1	0	0
Unnamed	0	58,523	0	0	0	4	2	0
County Total	0	86,618	0	0	0	9	2	0
Niagara County								
Sanborn	0	1,500	0	0	0	1	0	0
County Total	0	1,500	0	0	0	1	0	0
Oneida County								
Sangerfield	0	0	0	0	0	1	0	0
County Total	0	0	0	0	0	1	0	0
Onondaga County								
Baldwinsville	0	0	0	0	0	1	0	0
Cross Lake	0	0	0	0	0	0	1	0
Dry Wildcat	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	1	2	0
Ontario County								
Benton Run	0	250	0	0	0	2	0	0
East Bloomfield	0	57,017	0	0	0	12	2	0
Melvin Hill	0	0	0	0	0	0	1	0
Unnamed	0	0	0	0	0	0	1	0
Vincent	0	0	0	0	0	2	0	0
West Bloomfield	0	14,621	0	0	0	5	0	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Ontario County (Cont)								
Whetstone Brook	0	638	0	0	0	1	0	0
County Total	0	72,526	0	0	0	22	4	0
Oswego County								
Bass Lake	0	100	0	0	0	1	0	0
Kasoag	0	0	0	0	0	0	1	0
Little France	0	0	0	0	0	1	0	0
Pulaski	0	1	0	0	0	4	4	0
County Total	0	101	0	0	0	6	5	0
Schuyler County								
Unnamed	0	0	0	0	0	0	3	0
County Total	0	0	0	0	0	0	3	0
Seneca County								
Fayette-Waterloo	0	562,642	13,157	0	0	137	1	0
Geneva	0	0	0	0	0	0	1	0
Neilson Road Pool	0	10,758	0	0	0	1	0	0
Reeder Creek	0	3,636	0	0	0	1	0	0
Rose Hill	0	200	0	0	0	1	0	0
Seneca Falls	0	2,591	0	0	0	1	0	0
Unnamed	0	0	0	0	0	0	3	0
Whiskey Hill	0	0	0	0	0	1	0	0
County Total	0	579,827	13,157	0	0	142	5	0
Steuben County								
Andover	27	0	2	3	1	0	0	0
Avoca	0	1,678	0	0	0	2	0	0
Beech Hill-Independence	16,877	31,645	24,119	140	7	0	0	19
Big Creek	0	5,239	0	0	0	1	0	0
Colonel Bills Creek	0	0	0	0	0	0	1	0
Crosby Creek	0	0	0	0	0	0	1	0
Dry Wildcat	0	0	0	0	0	1	2	0
Glodes Corners Road	0	1,566,520	12	0	0	7	0	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Steuben County (Cont)								
Howard	0	686	0	0	0	1	0	0
Hungry Hollow	0	0	0	0	0	1	0	0
Jackson Hill	0	120	0	0	0	1	0	0
Jasper	0	0	0	0	0	1	2	0
Marsh	0	0	0	0	360	0	0	0
Milwaukee Creek	0	559	0	0	0	1	0	0
Northwest Harrison	0	0	0	0	0	1	0	0
Painted Post	0	1,819	120	0	0	1	1	0
Purdy Creek	0	0	0	0	0	1	0	0
Rathbone	0	0	0	0	0	1	0	0
Stone Hill	0	15,485	0	0	0	1	0	0
Thomas Corners	0	18,839	0	0	0	2	0	0
Unnamed	0	1	6	0	4	1	11	0
Wyckoff	0	45,447	0	0	0	2	3	0
County Total	16,904	1,688,038	24,259	143	372	26	21	19
Tioga County								
Cafferty Hill	0	73	0	0	0	1	0	0
Stagecoach	0	944,508	800	0	0	12	1	0
County Total	0	944,581	800	0	0	13	1	0
Tompkins County								
Unnamed	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0
Wayne County								
Butler Creek	0	5	0	0	0	1	0	0
County Total	0	5	0	0	0	1	0	0
Wyoming County								
Alden-Lancaster	0	20,951	60	0	0	6	1	0
Attica	0	1,400	0	0	0	1	0	0
Cascade Brook	0	0	0	0	0	0	9	0

1998 Oil and Gas Production by Field in Each County

Field	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Wyoming County (Cont)								
Castile	0	6,941	0	0	0	2	1	0
Chaffee-Arcade	0	41,975	7	0	0	31	2	0
Cowlesville	0	1,201	0	0	0	1	0	0
Danley Corners	0	148,793	2,653	0	0	81	1	0
Dutch Hollow	0	170	0	0	0	1	0	0
Java	0	19,163	0	0	0	12	14	0
Leicester	0	87,332	1,140	0	0	54	6	0
Northwoods	0	11,029	3	0	0	1	0	0
Pike Corners	0	2,500	0	0	0	1	0	0
Sheldon	0	45,428	68	0	0	39	0	0
Silver Lake	0	23,807	0	0	0	14	1	0
Tozier's Corners	0	3,209	0	0	0	2	0	0
Unnamed	0	88,052	177	0	0	1	1	0
Wyoming	0	2,963	0	0	0	2	1	0
County Total	0	504,914	4,108	0	0	249	37	0
Yates County								
Dry Wildcat	0	0	0	0	0	0	2	0
North Penn Yan	0	2,076	0	0	0	9	3	0
South Penn Yan	0	0	0	0	0	1	1	0
Sugar Creek	0	0	0	0	0	0	1	0
County Total	0	2,076	0	0	0	10	7	0
State Total	182,739	16,704,205	884,832	3,724	1,560	5,903	577	460

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Allegany County								
Bradford	308	156	30	18	13	0	0	0
Clarksville	596	0	200	10	4	0	0	0
Fulmer Valley	24,540	67,082	47,412	388	48	5	3	12
Marcellus	0	3,105	0	0	0	1	0	0
Medina	0	9,702	4	0	0	2	1	0
None Specified	0	0	0	18	0	0	2	0
Onondaga	0	0	0	0	0	0	3	0
Oriskany	0	420,427	1,858	0	0	12	17	0
Penny	443	522	9	13	0	3	0	0
Penny & Fulmer Valley	1,260	1,368	21	18	0	0	4	0
Richburg	16,427	10,495	280,564	810	543	3	4	199
Scio	219	0	0	451	26	0	0	0
Tully	0	0	0	0	0	0	1	0
Upper Devonian	0	5,331	0	0	0	29	2	0
Upper Devonian Shale	0	0	0	0	0	0	1	0
Waugh & Porter	265	754	142	20	117	2	0	66
County Total	44,058	518,942	330,240	1,746	751	57	38	277
Cattaraugus County								
Akron	0	55	0	0	0	2	0	0
Bass Island	0	0	0	0	0	1	0	0
Bradford	50,570	3,442	369,212	840	180	1	0	127
Bradford & Chipmunk	0	0	0	0	0	3	0	0
Bradford Third	0	0	0	0	6	0	0	0
Chipmunk	22,635	16,778	31,463	584	148	0	0	36
Medina	0	1,143,586	216	0	0	498	26	0
None Specified	478	7,945	0	21	0	1	7	0
Onondaga	5,603	21,051	12	3	0	7	0	0
Onondaga-Bass Island	0	0	0	0	0	0	1	0
Oriskany	0	17,924	0	0	0	6	1	0
Theresa	0	0	0	0	0	1	0	0
Upper Devonian	50	833	50	3	2	4	5	0
Whirlpool	0	49,382	0	0	0	2	0	0
County Total	79,336	1,260,996	400,953	1,451	336	526	40	163
Cayuga County								
Black River	0	6,650	0	0	0	1	0	0
Onondaga	0	0	0	0	0	0	1	0

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Cayuga County (Cont)								
Queenston	0	1,245,208	23,241	0	0	300	9	1
Trenton	0	0	0	0	0	1	0	0
County Total	0	1,251,858	23,241	0	0	302	10	1
Chautauqua County								
Akron	0	0	0	0	0	0	1	0
Bass Island	15,993	108,988	12,995	30	10	32	9	0
Bass Island/Medina	0	0	0	0	0	0	1	0
Devonian Shale	0	2,758	19	0	0	1	0	0
Glade	17,578	18,252	513	327	81	57	0	0
Medina	156	7,050,241	56,122	4	9	2,949	241	0
None Specified	2,719	13,411	0	4	0	2	2	0
Onondaga	5,734	32,532	2,277	10	0	11	3	0
Penny & Fulmer Valley	200	0	3	8	0	0	0	0
Perrysburg	0	0	0	0	0	0	1	0
Syracuse	0	0	0	0	1	0	0	0
Theresa	0	261	0	0	0	1	0	0
Upper Devonian	0	60	0	0	0	4	1	0
Whirlpool	0	786	0	0	0	2	1	0
County Total	42,380	7,227,289	71,929	383	101	3,059	260	0
Chemung County								
Marcellus	0	2,051	0	0	0	1	0	0
Oriskany	0	150	0	0	0	3	2	0
County Total	0	2,201	0	0	0	4	2	0
Delaware County								
None Specified	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0
Erie County								
Akron	0	7,485	14	0	0	14	0	0
Medina	0	1,415,491	6,419	0	0	804	108	0
None Specified	0	0	0	0	0	0	0	0

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Erie County (Cont)								
Onondaga	61	16,467	51	1	0	18	9	0
County total	61	1,439,443	6,484	1	0	836	117	0
Genesee County								
Medina	0	962,651	7,711	0	0	493	11	0
Onondaga	0	0	0	0	0	0	2	0
County Total	0	962,651	7,711	0	0	493	13	0
Livingston County								
Hamilton	0	0	0	0	0	3	0	0
Marcellus	0	50	0	0	0	3	0	0
Medina	0	160,589	1,950	0	0	139	8	0
County Total	0	160,639	1,950	0	0	145	8	0
Madison County								
Herkimer	0	18,024	0	0	0	2	0	0
Herkimer-Oneida	0	20,270	0	0	0	3	0	0
None Specified	0	20,900	0	0	0	2	2	0
Oneida	0	27,424	0	0	0	2	0	0
County Total	0	86,618	0	0	0	9	2	0
Niagara County								
Medina	0	1,500	0	0	0	1	0	0
County Total	0	1,500	0	0	0	1	0	0
Oneida County								
Herkimer	0	0	0	0	0	1	0	0
County Total	0	0	0	0	0	1	0	0

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Onondaga County								
None Specified	0	0	0	0	0	0	1	0
Queenston	0	0	0	0	0	1	0	0
Trenton	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	1	2	0
Ontario County								
Medina	0	72,276	0	0	0	20	2	0
Queenston	0	250	0	0	0	2	2	0
County Total	0	72,526	0	0	0	22	4	0
Oswego County								
Trenton	0	101	0	0	0	6	5	0
County Total	0	101	0	0	0	6	5	0
Schuyler County								
None Specified	0	0	0	0	0	0	2	0
Potsdam	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	3	0
Seneca County								
Niagara	0	0	0	0	0	0	1	0
None Specified	0	0	0	0	0	0	3	0
Queenston	0	565,433	13,157	0	0	140	1	0
Rochester Shale	0	3,636	0	0	0	1	0	0
Sodus Shale	0	10,758	0	0	0	1	0	0
County Total	0	579,827	13,157	0	0	142	5	0
Steuben County								
Black River	0	1,566,520	12	0	0	7	2	0
Fulmer Valley	16,877	31,646	24,125	140	368	1	1	19
Marcellus	0	1,678	0	0	0	2	0	0
None Specified	0	0	0	0	4	1	8	0
Onondaga	0	79,771	0	0	0	5	2	0

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLS)	Gas (MCF)	Water (BBLS)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Steuben County (Cont)								
Oriskany	0	8,303	120	0	0	7	7	0
Oswego	0	0	0	0	0	0	1	0
Penny	0	120	0	0	0	1	0	0
Penny & Fulmer Valley	27	0	2	3	0	0	0	0
Rhinestreet	0	0	0	0	0	1	0	0
Tully	0	0	0	0	0	1	0	0
County Total	16,904	1,688,038	24,259	143	372	26	21	19
Tioga County								
Helderberg	0	926,450	591	0	0	11	1	0
Marcellus	0	73	0	0	0	1	0	0
Oriskany	0	18,058	209	0	0	1	0	0
County Total	0	944,581	800	0	0	13	1	0
Tompkins County								
None Specified	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0
Wayne County								
Trenton	0	5	0	0	0	1	0	0
County Total	0	5	0	0	0	1	0	0
Wyoming County								
Akron	0	3,209	0	0	0	2	0	0
Devonian Shale	0	2,500	0	0	0	1	0	0
Little Falls	0	88,052	177	0	0	1	0	0
Medina	0	399,954	3,928	0	0	243	28	0
Theresa	0	11,029	3	0	0	1	8	0
Upper Devonian	0	170	0	0	0	1	0	0
Whirlpool	0	0	0	0	0	0	1	0
County Total	0	504,914	4,108	0	0	249	37	0

1998 Oil and Gas Production by Formation in Each County

Formation	Oil (BBLs)	Gas (MCF)	Water (BBLs)	Active Oil Wells	Inactive Oil Wells	Active Gas Wells	Inactive Gas Wells	Water Injection Wells
Yates County								
Medina-Queenston	0	275	0	0	0	1	0	0
None Specified	0	0	0	0	0	0	2	0
Queenston	0	1,801	0	0	0	9	5	0
County Total	0	2,076	0	0	0	10	7	0
State Total	182,739	16,704,205	884,832	3,724	1,560	5,903	577	460

COMMENTS & OPINIONS

The Division of Mineral Resources is constantly striving to improve its yearly publication, the **New York State Oil, Gas and Mineral Resources** report. We would like to receive ***your*** COMMENTS & OPINIONS on how we can improve this publication!

Place your COMMENTS & OPINIONS on a copy of this page and mail it to:

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NYS DEC
Division of Mineral Resources
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Albany New York 12233-6500

If you wish to either Fax or e-mail your COMMENTS & OPINIONS to us

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