

Department of Environmental Conservation

Division of Mineral Resources

**New York State
Oil, Gas
and
Mineral Resources
1997**

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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State of New York
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It was another busy year for the Division's regional staff. During 1997, as in years past, the Division's entire regional mined land staff consisted of eight specialists (one in each region except New York City) responsible for a combined total of about 2,500 surface mines. This small staff conducts inspections and enforcement, reviews permit applications and reclamation activities, investigates complaints, and maintains a statewide mining database. Their work has grown more difficult in recent years as mining has become more controversial and applications have become increasingly complex. Significant events for the Mined Land Reclamation Program during 1997 included transfer of Akzo Nobel's permit for the new Hampton Corners salt mine to American Rock Salt and presentation of the first annual New York State Mined Land Reclamation Award to Tracy Materials Inc. in the Town of Greenwich, Washington County, where a mine was reclaimed to a golf course.

Regional staff in the oil and gas program were busy during 1997 with escalated wildcat drilling activity. Wildcats were drilled to unusually deep targets and in sparsely explored counties, with state land leasing for oil and gas rights increasing as a direct result. Amoco came to New York in 1997 to drill a stratigraphic well for a proposed solution-mined propane storage facility in Wyoming County. Division staff will be evaluating environmental assessments and applications related to this project during 1998. Meanwhile, construction activity has halted at Avoca Natural Gas Storage Company's Steuben County project, as the company filed for bankruptcy in mid-1997.

The Division met success during 1997 with focused efforts to encourage compliance by the regulated community. One such effort was a short-term amnesty program that significantly improved compliance with the mined land financial security requirements. Another was Region 9's brine tank inspection program, where staff

observed improved compliance during the project's second year. When compliance efforts are unsuccessful, the Division must undertake aggressive enforcement to halt violations and prevent or mitigate environmental damage. During 1997, Albany staff pursued no less than two dozen cases involving more than 1,500 wells.

In October 1997, the Division hosted a series of informal public workshops on draft oil and gas rules and regulations. More than 140 stakeholders attended the meetings, held in Batavia, Jamestown and Olean. Discussions were lively, and we received many valuable suggestions for improvement. The regulations will now be revised based on the comments received, and we expect that there will be meetings with industry representatives and others on specific topics. Following those meetings, we expect that the draft rules will be ready for the formal public hearing process in the Spring of 1999.

The Division remains active in its interactions with a large array of local, state, regional and national officials, organizations and industry representatives. I was elected 1998 Chairman of the Appalachian and Illinois Basin Directors, created by the Interstate Oil and Gas Compact Commission to address common regional oil and gas environmental. In September 1997, the Division hosted a very successful joint annual meeting in Lake Placid of the Interstate Mining Compact Commission and the National Association of State Land Reclamationists. It always amazes me that people outside of New York have no idea about the size and beauty of our great state.

I invite you to visit our new and growing website at www.dec.state.ny.us/website/dmn to learn more and take advantage of availability on the 60-page site of regulations, statistics, general information and downloadable data. We look forward to your suggestions on improvements both for this report and our website.

EXECUTIVE SUMMARY

New York State Oil, Gas and Mineral Resources - 1997 is the fourteenth 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 85 percent of the registered operators, or 752 of 884 operators, had filed required Annual Well Reports.

OIL and GAS HIGHLIGHTS

- ☞ Reported production of natural gas declined approximately 12 percent to 16.2 billion cubic feet compared with 1996's reported production of 18.3 billion cubic feet.
- ☞ Production of oil was 276,330 barrels, a decrease of 10 percent from 1996's reported production of 308,529 barrels.
- ☞ Average wellhead prices paid in 1997 were \$2.56 per thousand cubic feet of gas and \$17.46 per barrel of oil.
- ☞ Market value of reported oil and gas was an estimated \$46.3 million. Land owners received approximately \$5.79 million in royalties.
- ☞ New York operators spudded 91 wells during 1997, a decrease of 55 wells from 1996.
- ☞ Gas well completions decreased from 35 gas wells completed in 1996 to 22 gas wells completed in 1997.
- ☞ Regional staff issued 114 drilling permits in 1997.
- ☞ Oil well completions decreased from 70 oil wells completed in 1996 to 30 oil wells completed in 1997.
- ☞ Tioga County ranked fifth in gas production in the state with only 12 gas wells.
- ☞ Reported oil and gas production generated an estimated \$1.39 million in real property tax revenues.
- ☞ Total State revenues from permits and leasing of State lands were \$284,978 in 1997.
- ☞ Oil and Gas staff performed 2,204 inspections and traveled 68,967 miles during 1997.
- ☞ Market value of solution salt mining in New York for 1997 was \$100 million.

MINERAL HIGHLIGHTS

- ☞ In 1997 the Division was responsible for 2,474 surface and underground mines affecting 44,813 acres.
- ☞ Mined Land staff issued 434 permits, 90 new and 344 renewals during 1997. Ninety additional mines completed final reclamation.
- ☞ Estimated value of the minerals mined in New York State during 1997 was \$1.5 billion.
- ☞ Mined Land staff in 1997 approved the reclamation of 653 acres of affected land.

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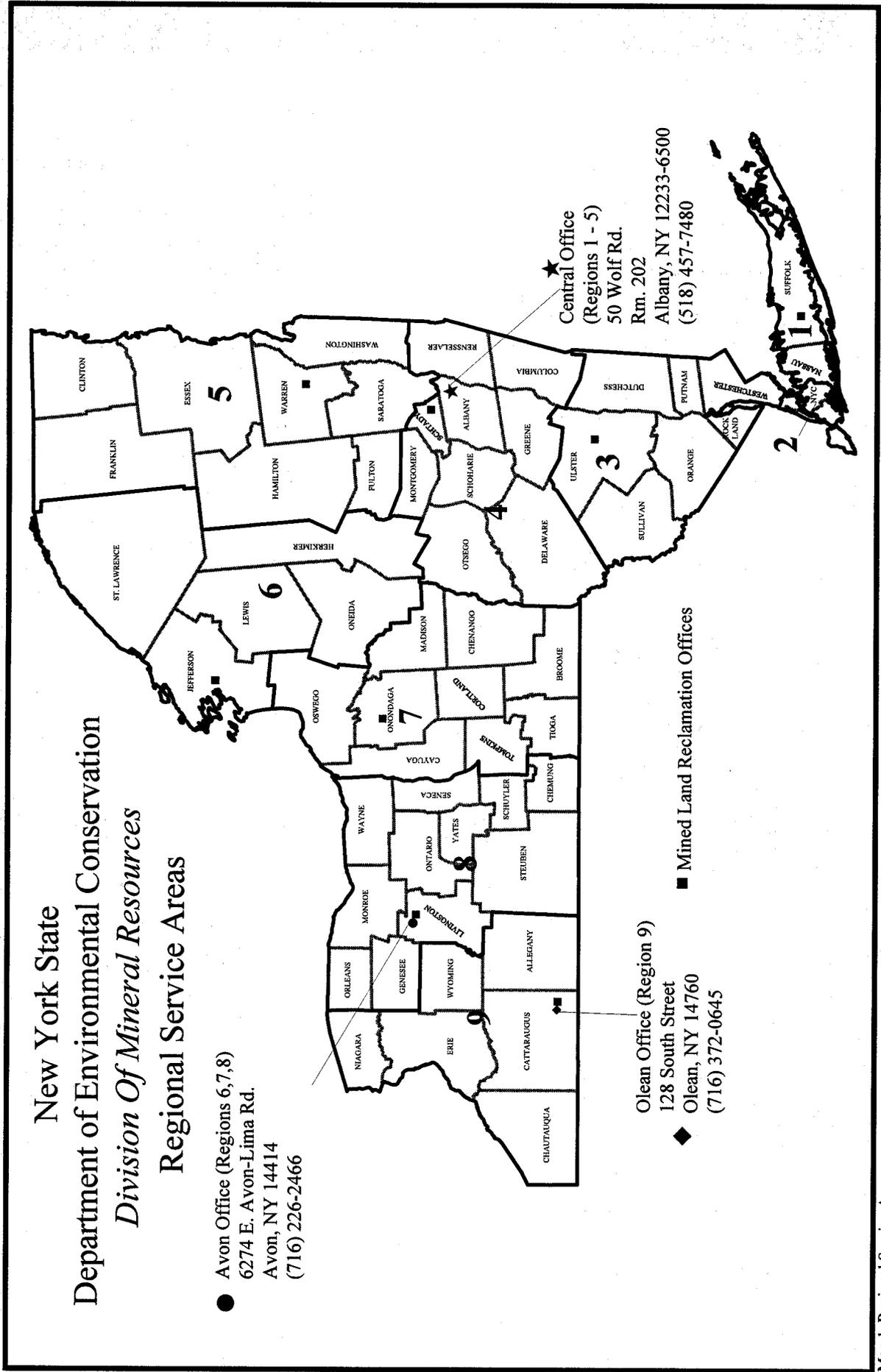
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New York State
 Department of Environmental Conservation
 Division Of Mineral Resources
 Regional Service Areas

● Avon Office (Regions 6,7,8)
 6274 E. Avon-Lima Rd.
 Avon, NY 14414
 (716) 226-2466

★ Central Office
 (Regions 1 - 5)
 50 Wolf Rd.
 Rm. 202
 Albany, NY 12233-6500
 (518) 457-7480

◆ Olean Office (Region 9)
 128 South Street
 Olean, NY 14760
 (716) 372-0645

■ Mined Land Reclamation Offices

Map 1. Regional Service Areas.

PERMITS & COMPLETIONS

Eric B. Shyer

PERMITS

Division staff issued 114 drilling permits in 1997: 53 gas well permits, 35 oil well permits, 1 stratigraphic well permit, 13 solution mining well permits, 10 reissued well permits and 2 gas storage well permits. Permits were issued in fourteen counties: Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Erie, Genesee, Madison, Schuylar, Steuben, Tioga, Tompkins and Wyoming. A complete listing of the issued permits is included on page 21 of this report. A ten year comparison of drilling permits issued versus completions is shown in Chart 1.

COMPLETIONS

There were 68 oil, gas, brine and storage wells completed in twelve New York counties during 1997. Thirty oil wells were completed during 1997, a decrease of forty wells from 1996. Twenty-two gas wells were completed during 1997, a decrease of thirteen wells from 1996. An individual listing of the completed 1997 wells (Table 11) is included on page 25 of this report. Well type codes are listed on page 18.

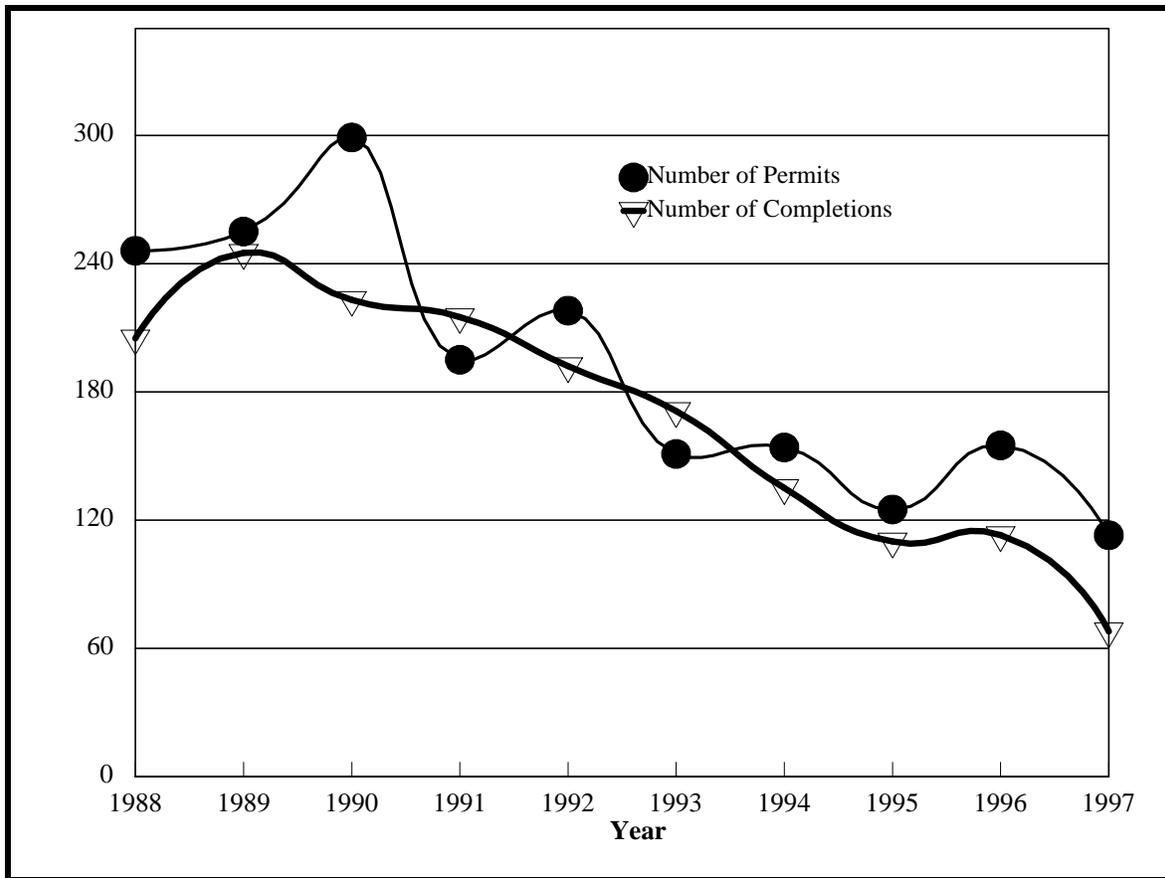


Chart 1. Drilling Permits Issued vs Completions, 1988 - 1997.

PRODUCTION OF OIL & NATURAL GAS**Eric B. Shyer**

As of June 17, 1998, approximately 85 percent, or 752 of 884 of the registered New York oil and gas operators had filed their 1997 Annual Well Reports. Table 1 lists the top ten gas producing counties while Table 2 lists the top ten oil and gas producing companies for 1997.

New York's production of oil decreased to 276,330 barrels, a fall of 10 percent from 1996. 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. Allegany, Cattaraugus and Steuben Counties which contain the State's historic oil fields, produced 38,610, 141,686 and 33,341 barrels of oil (bbl) respectively. This represents a decrease of 5 percent for Cattaraugus County from 1996 production and fourteen percent for Steuben County. There was no change for Allegany County. Chautauqua County produced 62,608 bbl, a decrease of twenty-four percent from 1996's production. Erie County oil production decreased fifty-nine percent from 208 barrels to 85 barrels. The oil production figures are based on the oil buyers' reports.

New York's 1997 reported gas production is 16.2 billion cubic feet (bcf), and production distribution is shown on Map 3, by town, on page 5. Initial estimates of the remaining unfiled

production reports place total 1997 gas production at about 16.5 bcf. Tioga County placed fifth in total gas production with an average per-well production of 104,416 thousand cubic feet (mcf). This is noteworthy as Tioga County only has **twelve** active gas wells. Chart 3 on page 3 shows New York gas production for the last ten years.

TOP TEN GAS PRODUCING COUNTIES, 1997

County	Gas (MCF)	No. of Active Wells	Average MCF/Well
Chautauqua	7,695,982	2938	2,619
Erie	1,555,033	823	1,889
Cayuga	1,288,047	296	4,352
Cattaraugus	1,286,697	489	2,631
Tioga	1,252,993	12	104,416
Genesee	957,778	489	1,959
Seneca	716,031	140	5,115
Allegany	481,619	61	7,895
Wyoming	395,084	260	1,520
Steuben	297,992	24	12,416

Table 1. Top Ten Gas Producing Counties, 1997.

TOP TEN OIL & GAS PRODUCING COMPANIES, 1997

OIL		GAS	
Company	Production (BBL)	Company	Production (MCF)
Richardson Petroleum Corp.	47,758	Belden & Blake Corporation	3,587,415
East Resources, Inc.	25,312	Lomak Operating Company	2,056,735
Pefley Oil & Gas, Inc.	23,894	Meridian Exploration Corp.	1,636,991
Pennsylvania General Energy	22,590	Seneca Resources Corp.	890,736
Woods Oil Company, Inc.	13,667	United States Gypsum Co.	802,164
Oil, Gas & Land Services, Inc.	8,848	Nornew, Inc	726,395
R & C Oil Co.	7,425	Lenape Resources, Inc.	516,868
Hydro-Carbon Generation, Inc.	7,366	Ardent Resources, Inc.	304,662
Plants & Goodwin	6,653	Resource America, Inc.	288,348
Chautauqua Energy, Inc.	6,424	Stedman Energy, Inc.	249,349

Table 2. Top Ten Oil & Gas Producing Companies, 1997.

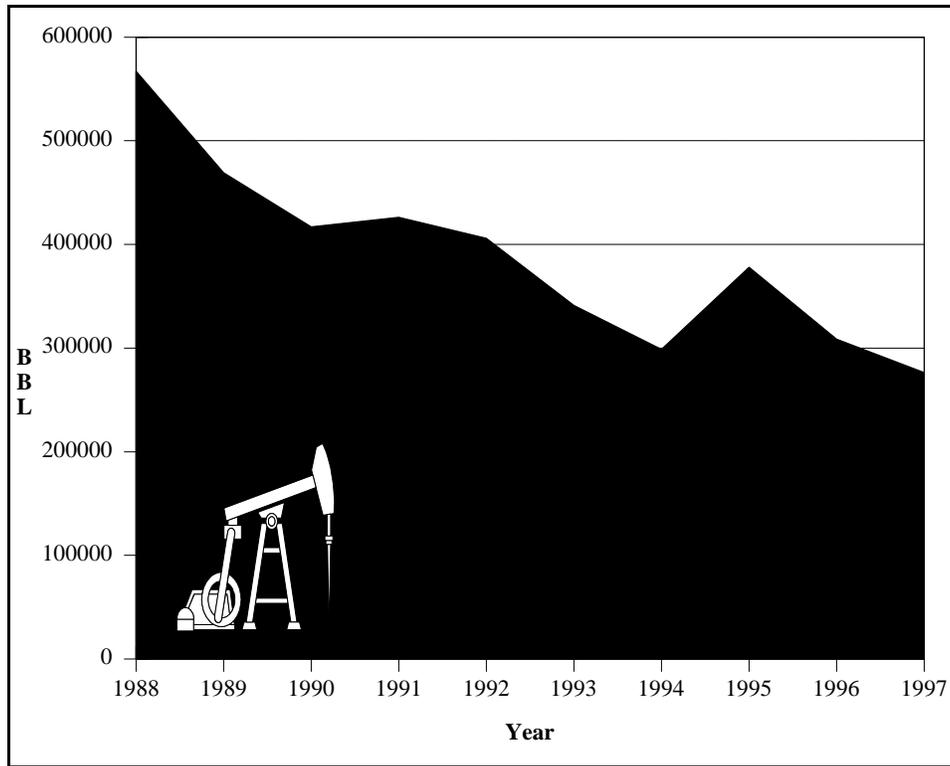


Chart 2. New York Oil Production, 1988 - 1997.

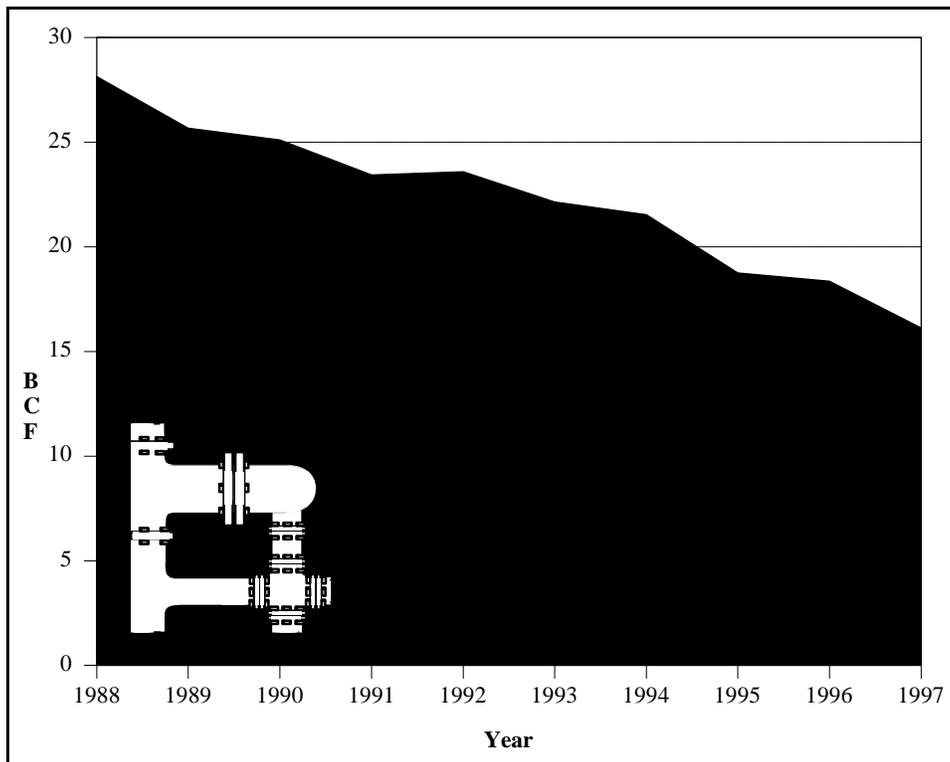
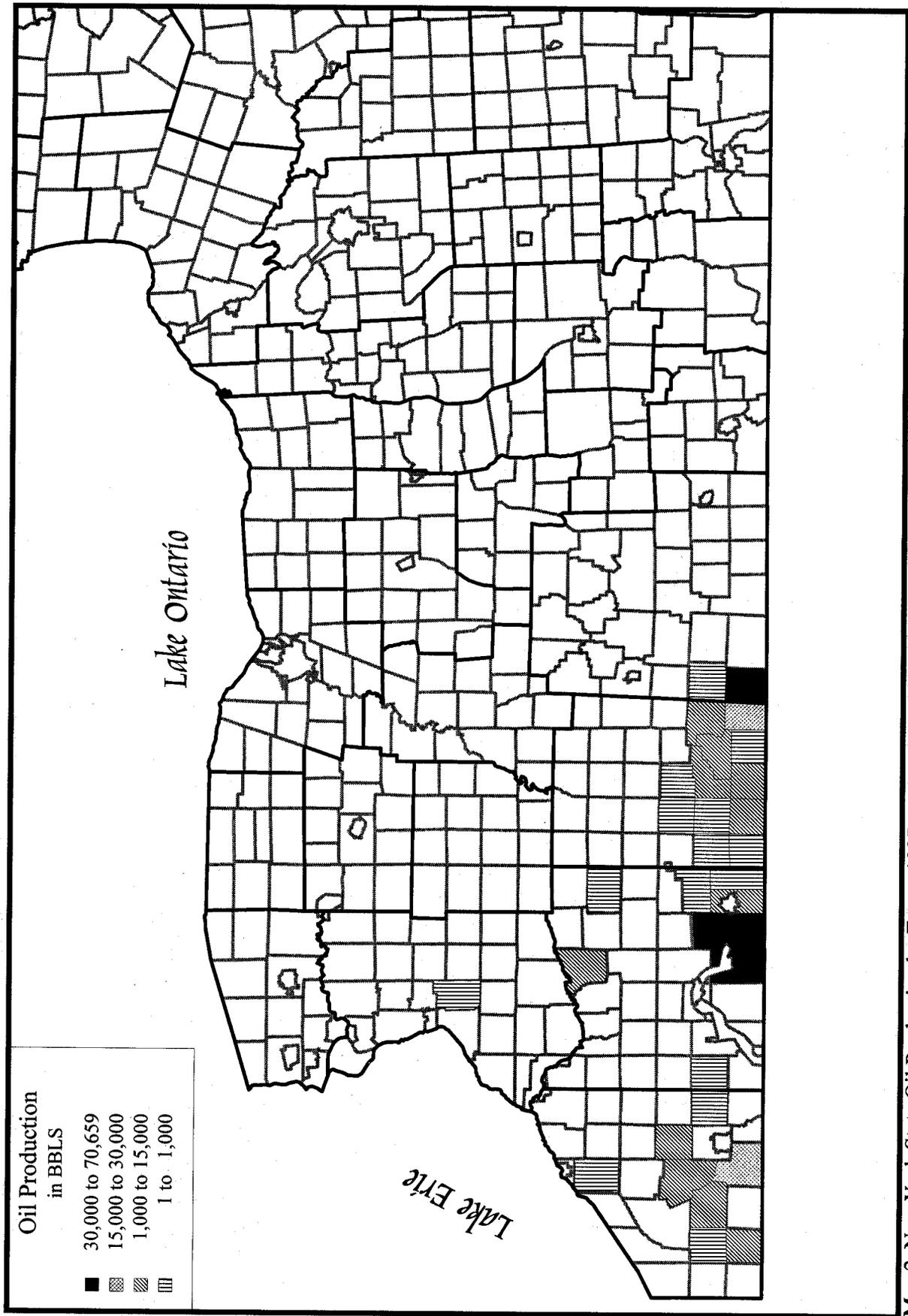
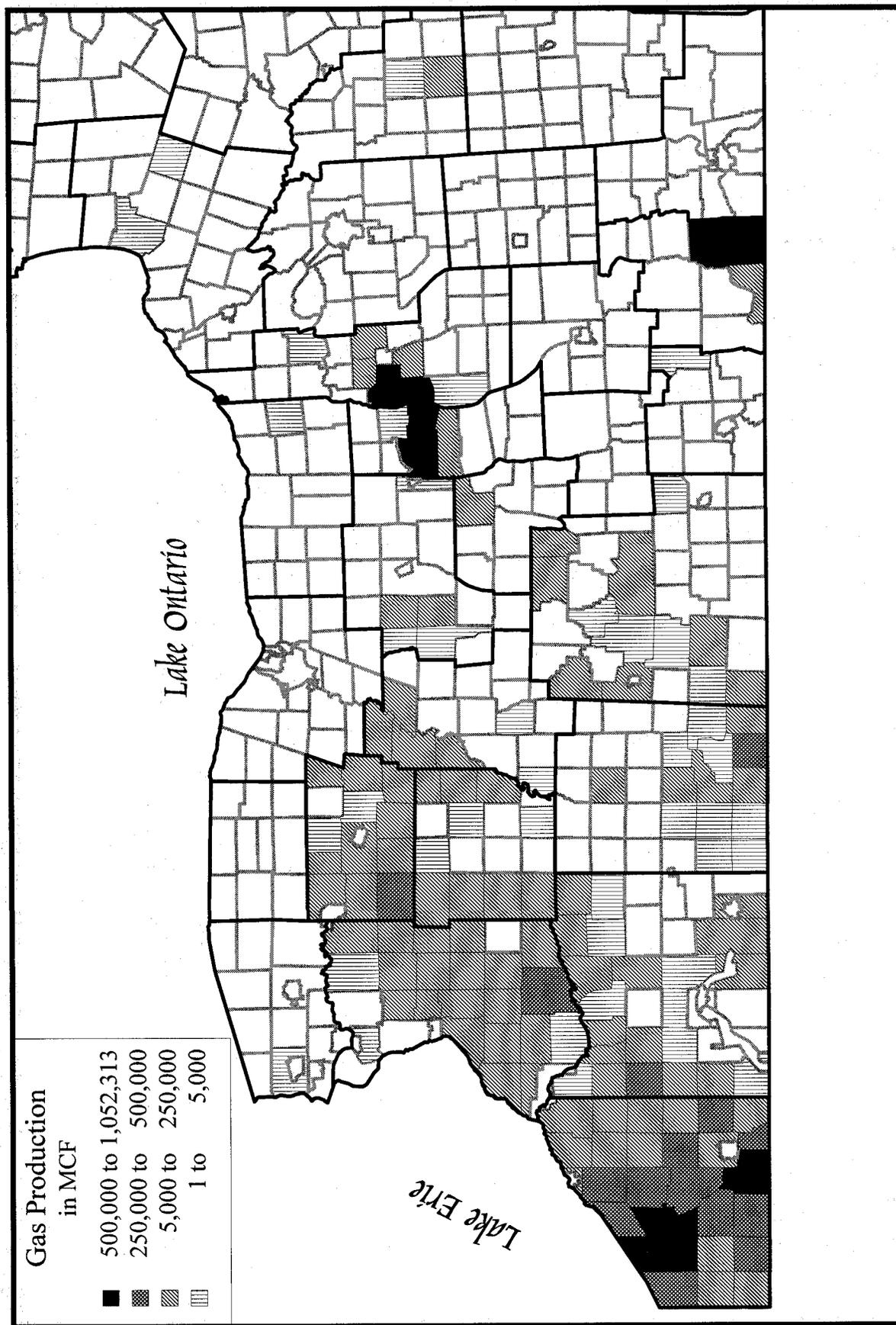


Chart 3. New York Gas Production, 1988 - 1997.



Map 2. New York State Oil Production by Town, 1997



Map 3. New York State Gas Production by Town, 1997

MARKET VALUE

Clemsford Pollydore

The market value of New York State's reported oil and gas production for 1997 was estimated at \$46.3 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 1988 to 1997.

Wellhead oil prices for 1997 averaged \$17.46 per barrel, a decrease of \$0.83 per barrel from 1996's average price. Market value of the state's 1997 reported production of 276,330 barrels was approximately \$4.8 million.

The average price for natural gas at the wellhead was \$2.56 per mcf, an increase of \$0.35 per

mcf. The market value of the reported produced gas was approximately \$41.5 million. Chart 4 illustrates the market value of oil and gas for the years 1988 to 1997.

Property Tax Revenues

Estimated real property tax revenues attributable to reported 1997 oil and gas production were approximately \$1.39 million. Taxes from natural gas and oil production were calculated to be \$1.25 million and \$144,742 respectively.

Leasing Royalties

Statewide, all landowners who had producing oil and gas leases during 1997 received approximately one-eighth of the market value of \$46.3 million, or approximately \$5.79 million in royalties.

AVERAGE WELLHEAD PRICE of OIL & GAS, 1988 - 1997		
YEAR	OIL \$/BBL	GAS \$/MCF
1988	\$15.50	\$2.00
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

Table 3. Average Wellhead Price.

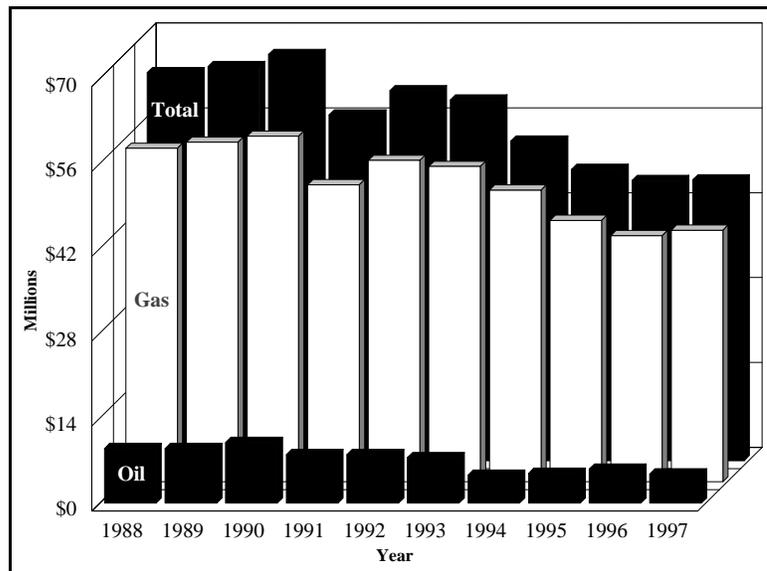


Chart 4. Market Value of New York Oil and Gas, 1988 - 1997.

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 1997, total oil and gas revenues were \$284,978; permits and fees were \$116,949 and leasing revenues from state lands were \$168,029.

State Land Leasing and Revenues

At year end 1997, the Division managed 62 leases covering 35,425 acres of state land, an increase of 13 percent from the 1996 year-end total of 30,886 acres. Production royalties generated from 17,511 acres of this land totaled \$97,502. The remaining 17,914 acres yielded \$70,527 from delay rentals, bonus money and storage fees. Total revenues from the onshore leasing program in 1997 were \$168,029, an increase of 17 percent from the \$143,592 earned in 1996. This increase is due primarily to additional acreage being leased.

Two competitive bid sales were conducted in 1997. On April 3, 1997, Columbia Natural Resources was awarded the leases for Steuben State Reforestation Area (SRA) #6A, and Steuben SRA #11A. Columbia was the sole bidder on these parcels offering \$15.00 per acre. The second sale was held on November 13, 1997. Belden and Blake was awarded all three leases with a high bonus bid of \$26.12 per acre on all three parcels. Table 5 gives a review of the successful bidders and acreage.

Oil and gas operator interest is being stimulated by recently discovered gas fields in the central New York counties of Steuben and Tioga. Deep

tests being drilled in the western and central parts of the state are increasing leasing activity. Higher bonus bids for the central New York acreage are an indication of operator interest in the area. For a more detailed description of what's happening in central New York read the Region 8 review on page 10 of this report.

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. 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.

COMPETITIVE BID LEASE REVIEW, 1997

SALE DATE	TRACT	ACRES	SUCCESSFUL BIDDER	BID/ACRE	TOTAL BID
04/03/97	Steuben SRA 6a	1395.76	Columbia Natural Resources	\$15.00	\$20,936.40
	Steuben SRA 11A	159.78	Columbia Natural Resources	\$15.00	\$2,396.70
11/13/97	High Tor WMA	1198.1	Belden & Blake Corp.	\$26.12	\$31,294.37
	Yates SRA 1A	1068.89	Belden & Blake Corp.	\$26.12	\$27,919.41
	Yates SRA 1B	830.74	Belden & Blake Corp.	\$26.12	<u>\$21,698.93</u>
				Total	\$104,245.81

Table 4. Competitive Bid Lease Review, 1997.

SOLUTION SALT MINING**Peter S. Briggs**

Five solution mining facilities in New York (see map on page 14) produced 2.25 billion gallons of saturated brine, or about 2.5 million metric tons of salt in 1997. Operators of these facilities injected 2.26 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 1997 represent an increase of five percent compared to 1996's figure of 2.14 billion gallons. The value of New York's 1997 solution salt mining production is estimated at \$100 million.

The 135 operating wells reported for 1997 include injection wells, withdrawal wells, wells equipped for both injection and withdrawal, and standby wells. Table 6 gives the status of operating wells by 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 1997, 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, 1997

OPERATOR	COUNTY	TOWN	PLUGGED WELLS	OPERATING WELLS	YEAR STARTED
U.S. salt	Schuyler	Reading	54	18	1893
Cargill	Schuyler	Dix	12	13	1898
Morton	Wyoming	Castile & Gainesville	23	16	1884
Texas Brine	Wyoming	Middlebury (Dale field)	76	50	1970
Texas Brine	Wyoming	Middlebury (Wyoming Village field)	9	38	1984
Total			174	135	

Table 5. Status of Solution Salt Mining in New York, 1997.

REGION 8 REVIEW

Randy Nemecek - Region 8 Minerals Manager

During 1997, nine different counties in Regions 7 and 8 experienced oil, gas or solution mining permit and/or drilling activity. Activity included wildcat, development, solution salt mining and underground gas storage.

Madison, Steuben and Tioga Counties were popular counties for wildcat permit and drilling activity. Wildcat activity also reached Broome and Tompkins Counties in Region 7. Other counties involved in permitting or drilling included Schuyler, Chemung and Cayuga.

Ardent Resources Inc. (Ardent) completed drilling operations during 1997 on three wells in the Town of Lebanon. Ardent drilled one well to a depth of 4,850 feet. The remaining two wells were drilled to approximately 3,100 feet. The Department has initiated a review of well spacing and unitization for this activity. Prior to 1997, the last drilling activity in Madison County occurred over 10 years ago.

Belden and Blake Corporation completed two wells in the Stagecoach Field in the Town of Nichols, Tioga County, during December 1997. This marked the first activity in this area in over three years. In 1993, the Department issued a spacing and unitization order for the Stagecoach Field that required wells be spaced in a fashion that is protective of correlative rights. To accomplish this, operators must drill wells on units no smaller than 160 acres. Current regulations allow a state-wide 40 acre minimum. A provision was included in the Order that allowed the Department to grant administrative variances to the Order in the event that small percentages of the proposed unit could not be leased. Belden and Blake Corporation's Waite Well No. 1 was the first proposal to undergo an administrative unitization process.

Steuben County remains as this region's most active area for wildcat drilling activity. The most significant discoveries since the Stagecoach Field (1986) has been Columbia Natural Resources' (CNR) operations in the Towns of Pulteney and Prattsburg. CNR has drilled a total of nine wells in this area, 4 during 1997. True Oil Company, from the State of Wyoming, drilled a wildcat in the

Town of Troupsburg, Steuben County to depth of 11,166 feet. After drilling operations, the well was plugged and abandoned. Wells drilled this deep are extremely rare in New York. The Oil and Gas Journal highlighted this well on the cover of their February 16, 1998 issue.

U. S. Salt Corporation purchased Cargill, Inc.'s solution salt mining plant in the Town of Reading, Schuyler County during 1997. Cargill, Inc. purchased the facility earlier in 1997 as part of their acquisition of Akzo Nobel Salt, Inc.'s (Akzo) North American assets. These acquisitions were developed as a result of the collapse of Akzo's underground salt mine in Livingston County and the decision not to construct a new facility. The acquisition involved the transfer of eighteen wells from Akzo to Cargill Inc. and ultimately to U. S. Salt Corporation.

During 1996, construction activities at Avoca Natural Gas Storage's (ANGS) proposed cavern storage facility were in full operation. In 1997, ANGS and its partners filed for bankruptcy. ANGS planned to create caverns in a salt formation capable of storing 5 billion cubic feet of natural gas in the Town of Avoca, Steuben County, approximately 4,000 feet below grade using a solution mining process. The resultant brine generated by solutioning was to be injected into six deep disposal wells over 10,000 feet deep.

ANGS explored several options for brine disposal including pipelines and railroads to existing salt processing facilities. Construction of the facility was nearly complete when it was determined that the disposal wells could not meet ANGS' demands. Six cavern and five disposal wells were completed along with the construction of a leach plant, freshwater supplies and related pipelines. ANGS and its affiliates drilled fourteen wells in Region 8. To ensure that the wells are properly plugged and abandoned, the Department revoked ANGS's financial security. The Department has received inquiries regarding possible acquisition of the Avoca project.

FIELD INSPECTION PROGRAMS

Jack Dahl - Region 9 Minerals Manager

Region 9 Minerals staff had an active 1997 field season. Inspectors conducted oil, gas and solution mining drilling and postsite inspections. This year's activities also included a brine tank inspection program as well as continuing the location of abandoned, unregistered wells utilizing GPS equipment. Other projects of interest were the drilling of a horizontal well by National Fuel Gas and Amoco's stratigraphic well in Wyoming County.

Region 9 experienced an increase in drilling activity from 1996. The number of drilling permits rose from 71 to 92. Plugging, on the other hand, fell from 233 permits issued in 1996 to 166 permits issued in 1997.

The brine tank inspection program found much better compliance this year. Minerals staff inspected 416 brine tanks in 1997. The tanks in this year's program were connected to wells which were in production status for 5-10 years. Only 29 tanks or approximately 7% of the total were leaking or had holes in the walls of the tanks. Last year approximately 24% of the tanks were found to be in violation. We attribute the improved compliance to the following factors: increased awareness and concern on behalf of the gas operators to maintain brine tank integrity, an increased field presence in 1996, and the relative age of the tanks such that the newer tanks are less likely to show the corrosive effects due to salt water than did the older tanks in last year's survey. Better compliance has resulted in greater environmental protection.

The 1997 GPS program discovered and documented approximately 200

abandoned/unregistered well locations. These "new" locations have been added to the Minerals database. This GPS location program will continue to be included for many years to come in Minerals field work. A goal of 750 locations has been set for the 1998-1999 season.

Two wells of special interest were drilled in Region 9 this year. National Fuel Gas drilled a horizontal well, Paluch #1, in its Holland Storage Field, Erie County. Although specific information and details are confidential until August 1999, it

is exciting to see advanced technology utilized in western New York's oil and gas operations. The second well of interest was a stratigraphic test, Pac #1, drilled by Amoco in Silver Springs, Wyoming County. After evaluation of the test well Amoco approached the Town officials and the DEC with a proposal to construct a propane storage and distribution facility. Amoco's proposal is currently

under review and will be evaluated according to SEQR.

It is truly gratifying to see advanced technology aid oil, gas and solution mining operators in their quest to develop New York's natural resources in an environmentally safe manner. The three dimensional seismic and horizontal drilling technology will open up previously unreachable productive reservoirs to development without adverse environmental effects. I predict it won't be too far in the future when directionally drilled wells will tap reserves under lakes, discover by-passed Bass Island oil and gas using long lateral well bores and also completely avoid environmentally sensitive areas, yet still produce the resources under them.



Picture 1. Minerals staff inspects National Fuel Gas horizontal well, Holland Storage Field NY.

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

Table 6 summarizes the 1997 year-end status of underground natural gas storage in New York and Table 7 details activity during the year at each storage field. New York's 22 underground natural gas storage reservoirs (see map on page 13) were 81% full at the end of the reporting year, while year-end working gas in storage represented 60% of working capacity. Combined maximum daily deliverability from New York's natural gas storage fields is 1.41 bcf.

Inactive Fields

Two recently issued Underground Gas Storage Permits remain inactive. 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 inactive 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. The Department is involved with the bankruptcy court concerning ultimate abandonment or sale of the site.

Conversion of the former Thomas Corners Reef gas production field to natural gas storage service by the permittee is pending.

UNDERGROUND NATURAL GAS STORAGE SUMMARY, 1997

	ONONDAGA	ORISKANY	MEDINA	SALT CAVERN	TOTAL
Number of storage fields	2	9	10	1	22
Total number of wells	42	299	523	3	867
Reservoir acreage	2,473	27,835	42,630	3,676	76,614
Total acreage	7,112	60,218	102,946	3,676	173,952
Total capacity (bcf)	10.400	121.004	57.213	2.340	190.957
Gas in storage at year-end (bcf)	9.070	93.246	50.059	2.121	154.496
Working capacity (bcf)	6.800	56.727	26.000	1.450	90.977
Year-end working gas (bcf)	5.470	28.969	18.846	1.231	54.516
Max. daily deliverability (bcf/day)	100.0	670.6	496.3	145.0	1,411.9

Table 6. Underground Natural Gas Storage Summary, 1997.

BRINE DISPOSAL

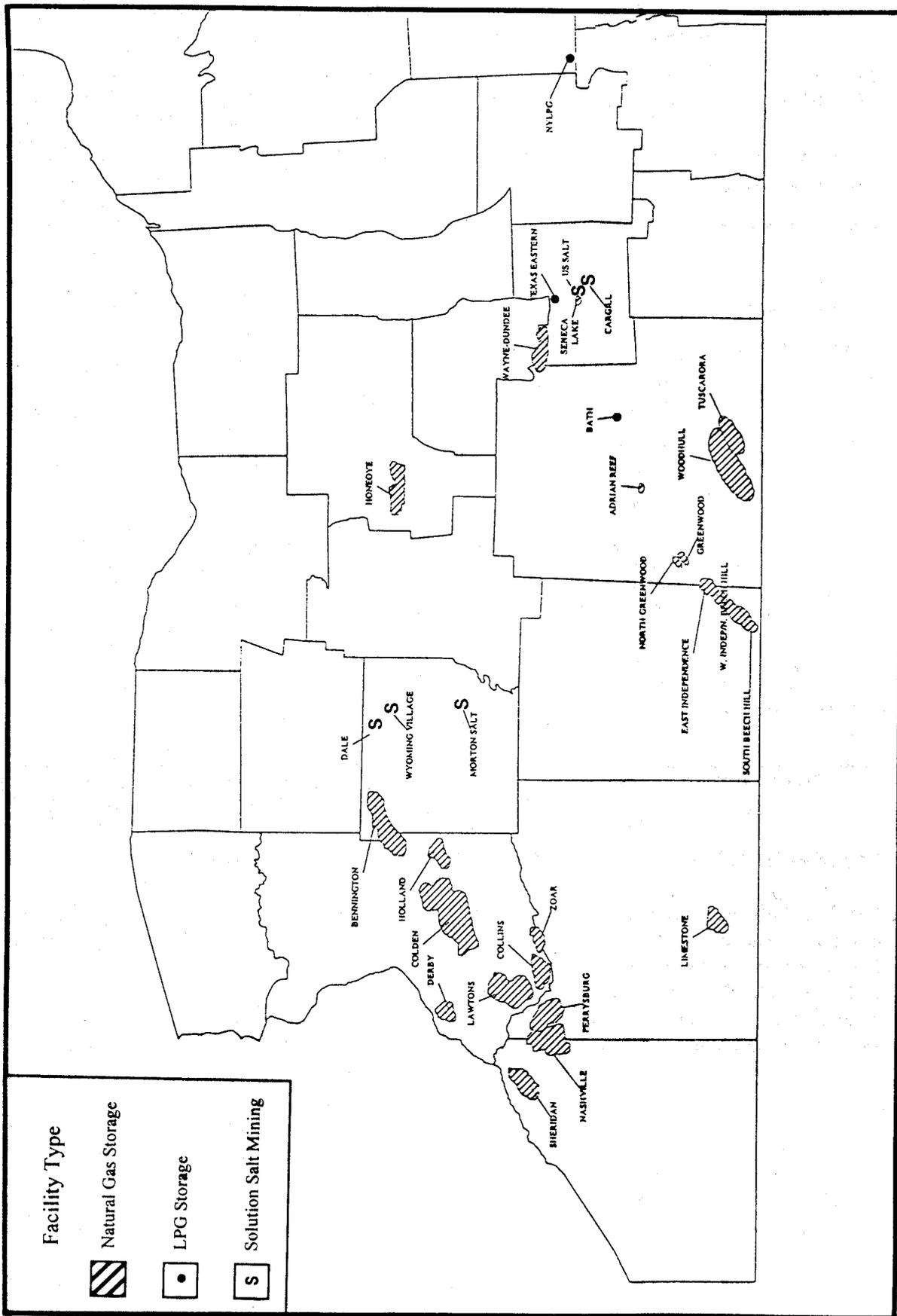
UNDERGROUND NATURAL GAS STORAGE FIELD ACTIVITY - 1997						
STORAGE OPERATOR	STORAGE FIELD	TOTAL WELLS	TOTAL STORAGE CAPACITY (BCF)	GAS TO STORAGE (BCF)	GAS FROM STORAGE (BCF)	DESIGNED MAXIMUM DELIVERY (MMCF/DAY)
CNG Transmission Corp.	Woodhull	51	35.904	16.761	17.601	357.0
Columbia Gas Trans Corp.	Dundee	134	11.000	4.062	4.431	77.5
	Greenwood	7	3.600	0.198	0.162	4.0
	N.Greenwood	2	3.200	0.419	0.393	8.7
Honeoye Storage Corp.	Honeoye	39	8.713	4.049	4.132	40.0
National Fuel Gas Supply	Beech Hill	41	23.000	3.701	3.988	66.0
	Bennington	64	5.000	1.999	2.319	75.3
	Colden	166	16.220	8.156	7.133	110.0
	Collins	47	5.880	2.079	2.009	50.0
	Derby	14	0.250	0.088	0.143	5.0
	East Independence	11	6.400	2.001	2.244	14.7
	Holland	25	2.600	0.796	0.684	25.0
	Lawtons	31	2.470	0.914	1.024	21.0
	Limestone	14	19.800	1.188	0.913	37.0
	Nashville	71	8.530	3.426	3.093	110.0
	Perrysburg	40	3.850	1.554	1.388	35.0
	Sheridan	26	3.700	0.753	0.856	25.0
	Tuscarora	8	6.300	3.411	3.155	57.0
	West Independence	31	11.800	4.359	3.706	48.7
Zoar	31	2.200	1.980	1.790	40.0	
NYS Electric & Gas	Seneca Lake	3	2.340	1.723	0.258	145.0
Steuben Gas Storage Co.	Adrian Reef	11	8.200	4.761	5.033	60.0
Totals		867	190.957	68.378	66.455	1,411.9

Table 7. Underground Natural Gas Storage Field Activity, 1997.

LIQUEFIED PETROLEUM GAS STORAGE

New York's three LPG storage operators reported a combined total of 55.7 million gallons of liquefied petroleum gas stored in underground caverns at the end of 1997. This represents 43.5 percent of total storage capacity. The map on page 13 shows the location of the LPG storage fields.

In 1997, New York State had twelve underground injection control (UIC) Class IID wells authorized for the disposal of brine associated with oil and gas production. Eight of the twelve wells were shut-in all year. The 1997 injection volume was 136,262 barrels, 87 percent of which was produced and reinjected at two underground gas storage facilities.



Map 4. Underground Gas Storage and Solution Mining in New York.

ENFORCEMENT ACTIVITIES

Charles Gilchrist & Bruce McGranahan

Oil and Gas

During 1997, staff of the Division of Mineral Resources was actively pursuing enforcement issues against twenty-five operators for fifty-one violations of Article 23 of the Environmental Conservation Law and 6 NYCRR Part 550 of the Rules and Regulations. Twenty-nine percent of the violations arose out of failure to properly file Organization Reports and Annual Well Reports, while Financial Security violations accounted for another twenty-four percent of the enforcement actions undertaken. Illegal abandonments were responsible for twenty percent of the violations; Shut-in/Temporary Abandonment issues another sixteen percent. The remaining eleven percent of the violations were equally divided among regulations governing secondary recovery operations and well permit requirements.

Overall, enforcement actions involved in excess of 1,538 wells. By year's end, three cases involving ninety-four wells were successfully concluded. Assessed penalties for the three totaled \$239,836.

In other enforcement matters, a case successfully prosecuted by the Department was referred to the Civil Recoveries Bureau of the Attorney General's Office for collection. The case, involving thirty-two wells, was originally heard in the Supreme Court, Cattaraugus county and resulted in a decision that required the defendants to plug seven wells, clean up an oil spill, file annual well reports and post adequate financial security. The defendants'

continuing noncompliance with the Court's Stipulation/Orders resulted in an additional civil fine of \$1,250,000 which the Civil Recoveries Bureau is collecting.

Mined Land

Mined Land enforcement actions are initiated in the regional offices. The majority of the enforcement actions relate to individuals mining without valid permits. However, other violations include deviations from terms and conditions of Mined Land Reclamation plans and permits, failure to reclaim mined out sites, failure to maintain adequate financial security, and water quality violations.

An important enforcement action occurred in Region 3 and involved a gross deviation from the terms and conditions of the existing Mined Land Reclamation permit. The defendant, 37 Croton Dam Corporation, was fined a total of \$250,000 reached through settlement of a case that was begun in 1990.

For calendar year 1997, approximately \$1,381,000 in penalties was assessed statewide by the Mined Land Reclamation program. Approximately half of this amount was collected to date as a result of settlements. Suspended penalties generally occur as a result of remedial measures being taken by the violator at the Department's direction. Other cases remain pending for a variety of reasons.

MINED LAND RECLAMATION

Steven Potter

The Department of Environmental Conservation issued a total of 434 Mined Land Reclamation permits in 1997. Of the total, 344 were renewals and 90 were new. Additionally, 90 mines sites received final reclamation approval. Two-thousand four hundred seventy four (2,474) mines, 1,801 industry owned and 673 government owned, were active in the state at the end of 1997. The number of acres under permit at the end of 1997 were 94,638, with 44,813 currently affected by mining. A total of 653 acres were reclaimed in 1997 for a total of 15,463 that have been reclaimed since 1974. Nearly 196 of these acres, or 30% of reclaimed lands, were done concurrently with ongoing mining activity. Not only does concurrent reclamation improve the environment sooner, it may reduce bonding and regulatory fee requirements.

One of the major mining stories of 1997 was that a local group of western New York business people agreed to purchase the developmental rights to the Hampton Corners Salt Mine Project from Akzo Nobel Salt Inc. The agreement includes the purchase of approximately 9,000 acres of Akzo Nobel property, mineral rights and mineral rights options, certain mining equipment and all state and local approvals and permits

granted thus far to construct the mine at the Akzo Nobel Hampton Corners, Livingston County site. The goal of the new company, which will be known as American Rock Salt Inc., was to break ground in the spring of 1998. The new mine, when operating at full production, is projected to employ between 150 and 200 employees with approximately 75% of those being hourly employees directly involved in mining related activities.

In other mining news, the 1997 Annual Meeting of the Interstate Mining Compact Commission (IMCC) was held in Lake Placid, New York, from September 14-17, at the Lake Placid Holiday Inn. Tracy Materials, Inc., the winner of the 1997 New York State Reclamation Award, worked with a golf course developer to reclaim as mining progressed, thereby converting a 14 - acre sand and gravel mine into a golf course. Tracy Materials, Inc. conducted its mining operations in accordance with the developer's plans to create the layout of the course and provided the developer with the material needed to complete its construction. Tracy Materials received an Honorable Mention in the IMCC national non-coal reclamation awards category.

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It's official! The Division of Mineral Resources is now on the internet and has its own web site. The address for the Division's page is: <http://www.dec.state.ny.us/website/dmn>.

Mineral Resources is one of the first divisions to have a fully developed web site on the Department of Environmental Conservation's main site. A lot of hard work by mineral employees has gone into the creation of the Mineral Resources website. We are continually looking for ways to improve our site and provide information, forms and methods of communication to the industry and the public. Main areas featured in our website are:

"About the Division" - learn how we protect the environment, represent and inform the public.

"Of Public Interest" - covers articles of interest to schools and the general public. Features reprints of articles from the New York State Conservationist on mining and reclamation, maps of regulated wells and mines and information on the requirement for private well ownership. Both State and National awards presented to New York miners are described. "Of Public Interest" also features vignettes on solution mining, underground gas storage, mining, and brine disposal wells in New York. A publication order form can be printed for mail requests.

"Technical & Regulatory Guidance" - provides the current and proposed new rules and regulations

that govern wells, technical guidance memos and other information pertaining to regulations.

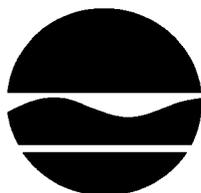
"Reports" - provides access to the New York State Oil, Gas and Mineral Resources report for this year and 1996. Other reports and abstracts written by staff are also available in an electronic format.

"Permits" - provides guidance on how to obtain permits from the division, information on well ownership and underground gas storage and requirements of the mined land reclamation program. Recent permit activity for oil and gas is included. Copies of forms can be downloaded for submittal.

"Data" - provides information on the data we keep, how to obtain it and Freedom of Information Law (FOIL) fee schedules. A copy of the mined land database is available for downloading, as well as regional summaries of the mined land program.

"Geographic Information" - location of the wells and mines that the division regulates and information about them.

"Educational Information" - is the start of the division's attempts at providing data on mineral resource issues. Currently, it serves to link various areas of our site with an eye toward education. As it expands, it will also provide links to other groups offering educational data.



Come visit us at
<http://www.dec.state.ny.us/website/dmn>
Division of Mineral Resources, NYS Dept. of Environmental Conservation

OIL & GAS TABLES & STATISTICS

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^ 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, 1998.

DIVISION OF MINERAL RESOURCES
OIL AND GAS STATISTICS *
(1988 - 1997)

	1988	1989	1990	1991	1992	1993	Rev. 1994	Rev. 1995	Rev. 1996	Prelim. 1997
ANNUAL PRODUCTION										
OIL (1000 BBLs)	567	496	417	426	406	341	299	304	309	276
GAS (MMCF)	28,125	25,673	25,112	23,438	23,582	22,145	21,543	19,291	18,238	16,193
WELL STATISTICS										
OIL	4,368	4,043	3,906	3,619	3,761	3,783	3,670	3,208	3,438	3,363
GAS	5,328	5,411	5,536	5,757	5,866	5,986	6,019	6,216	5,894	5,704
INACTIVE OIL	1,478	1,775	1,752	1,362	939	1,137	1,326	1,117	1,648	1,203
INACTIVE GAS	870	845	955	707	563	505	561	667	564	696
STORAGE	854	854	854	869	865	865	876	866	868	867
ACTIVE BRINE	65	64	63	64	52	80	83	70	64	65 !
INACTIVE BRINE	36	27	28	29	16	140	80	52	61	70
WATER INJECTION	1,382	1,196	1,274	875	835	859	923	783	668	554
P&A (DURING YEAR)	322	260	961	376	244	263	248	219	184	141
NUMBER OF WELLS	14,703	14,475	15,329	13,658	13,141	13,618	13,786	13,198	13,389	12,663
DRILLING AND COMPLETIONS										
1. TOTAL WELLS SPUDDED	211	217	221	213	205	134	133	112	146	91
2. TOTAL WILDCATS	10	5	12	10	5	5	2	3	3	3
3. Discoveries	4	0	6	5	1	2	1	3	3	2
Oil Wildcat	0	0	0	0	0	0	0	0	0	1
Gas Wildcat	4	2	6	5	1	2	1	3	5	1
4. TOTAL DRY HOLES	18	12	16	17	17	19	7	2	4	3
5. Oil										
Development	15	28	43	51	71	26	34	20	70	29
Extension	0	0	0	0	0	0	0	0	0	0
6. Gas										
Development	150	157	132	124	73	97	50	28	29	20
Extension	10	22	10	4	1	1	1	0	1	1
7. INJECTION	0	14	1	0	0	2	0	14	0	0
8. DISPOSAL	0	0	0	0	0	0	0	0	2	0
9. STRATIGRAPHIC	1	2	3	0	0	2	41	20	0	0
10. SERVICE	1	0	0	1	1	4	0	2	0	0
11. BRINE	6	8	12	1	15	14	6	14	4	12
12. STORAGE	0	0	0	12	13	4	0	7	8	1
13. Total Completions (3,4,5,6,7,8,9,10,11,12)	205	245	223	215	192	171	140	110	123	68
15. TOTAL FOOTAGE (1000 FEET)	559	611	549	622	464	454	292	238	306	157
PROVEN RESERVES AT YEAR END										
GAS A. IN SITU	268,743	270,074	266,410	265,320	252,988	245,843	232,867	219,084	205,522	192,546
(MMCF) B. IN STORAGE										
RESERVOIRS	144,819	131,785	141,900	150,694	150,800	153,400	154,200	159,500	171,100	154,496
C. TOTAL	413,562	401,859	408,310	416,014	403,788	399,243	387,067	378,584	376,622	347,042
OIL (1000 BBLs)	2,000	2,441	2,001	2,100	2,962	2,900	2,800	2,850	2,900	2,645

! 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 June 17, 1998.

Table 8. Division of Mineral Resources Oil and Gas Statistics, 1988 - 1997.

COMPLETED WILDCATS & FIELD EXTENSIONS , NEW YORK STATE, 1997

WILDCATS

Well Name	API #	Operator	County	Formation	TD	Result
Goozovat 1	31 - 007 - 21713	Belden & Blake Corporation	Broome		5,004	D&A*
K.C. Powell Et. Al. #1	31 - 009 - 22657	A. J. Lease Account	Cattaraugus	Onondaga	2,755	Discovery
Beers 1	31 - 053 - 21699	Ardent Resources, Inc.	Madison	Herkimer	4,734	Discovery

FIELD EXTENSIONS

Well Name	API #	Operator	County	Formation	TD	Field
Barringer 1	31 - 053 - 21698	Ardent Resources, Inc.	Madison	Oneida	3112	Lebanon

*D&A - Dry & Abandoned

Table 9. Completed Wildcats & Field Extension, 1997

PERMITS ISSUED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Allegany					
Amity	Vandermark Exploration Inc.	003 - 23252	Ramsey #4	12/08/97	**/**/**
Andover	Otis Eastern Service Inc.	003 - 22710	Lynch, C Est #3A	05/28/97	07/01/97
Andover	Otis Eastern Service Inc.	003 - 22711	Perry #4A	05/28/97	07/07/97
Andover	Otis Eastern Service Inc.	003 - 22712	McAndrew, R Est #2A	06/02/97	07/02/97
Bolivar	J. J. Bucher Producing Corp.	003 - 22713	Wheeler #185	06/17/97	09/10/97
Bolivar	Plants & Goodwin	003 - 22714	Green #294	06/24/97	07/22/97
Independence	Klein, Roger, A.	003 - 62734	Austin-Bayard #8	10/20/97	12/10/97
Independence	Richardson Petroleum Corp.	003 - 22687	Clark 100 #3	04/17/97	05/06/97
Independence	Richardson Petroleum Corp.	003 - 22688	Clark 100 #4	04/17/97	05/01/97
Independence	Richardson Petroleum Corp.	003 - 22696	Clark 100 #5	06/02/97	**/**/**
Independence	Richardson Petroleum Corp.	003 - 22697	Clark 100 #6	06/02/97	05/08/97
Independence	Richardson Petroleum Corp.	003 - 22698	Clark 100 #7	06/02/97	05/10/97
Independence	Richardson Petroleum Corp.	003 - 22699	Clark 100 #8	06/02/97	05/14/97
Independence	Richardson Petroleum Corp.	003 - 22700	Clark 100 #9	06/02/97	05/27/97
Independence	Richardson Petroleum Corp.	003 - 22701	Clark 100 #10	06/06/97	06/02/97
Independence	Richardson Petroleum Corp.	003 - 22702	Clark 100 #11	06/02/97	06/25/97
Independence	Richardson Petroleum Corp.	003 - 22703	Clark 100 #12	05/09/97	**/**/**
Independence	Richardson Petroleum Corp.	003 - 22704	Clark 100 #13	05/09/97	**/**/**
Independence	Richardson Petroleum Corp.	003 - 22705	Clark 100 #14	05/09/97	**/**/**
Independence	Richardson Petroleum Corp.	003 - 22706	Clark 100 #15	06/02/97	06/20/97
Independence	Richardson Petroleum Corp.	003 - 22707	Clark 100 #16	06/02/97	06/16/97
Broome					
Colesville	Belden & Blake Corporation	007 - 21713	Goozovat 1	10/01/97	11/21/97
Cattaraugus					
Carrollton	Woods Oil Company, Inc.	009 - 22718	Woods #8	07/11/97	07/30/97
Carrollton	Woods Oil Company, Inc.	009 - 22719	Woods # 9	07/11/97	07/31/97
Carrollton	Woods Oil Company, Inc.	009 - 22720	Woods #10	07/11/97	08/04/97
Carrollton	Woods Oil Company, Inc.	009 - 22721	Woods #11	07/11/97	07/28/97
Carrollton	Woods Oil Company, Inc.	009 - 22722	Woods #12	07/11/97	07/29/97
Freedom	A. J. Lease Account	009 - 19293	Drake Inc.,Et A1 1	06/05/97	10/24/84
Freedom	A. J. Lease Account	009 - 23238	Drake Et A1 Unit #2	08/12/97	08/14/97
Leon	New York Gas & Oil Co, Inc.	009 - 22681	Milliman #1	03/12/97	**/**/**
Leon	New York Gas & Oil Co, Inc.	009 - 22695	Green #1	04/30/97	**/**/**
Leon	Nornew, Inc	009 - 22675	Shetler M. #1	01/07/97	**/**/**
Leon	Nornew, Inc	009 - 22675	Shetler M. #1	07/10/97	**/**/**
Leon	Nornew, Inc	009 - 22708	Shetler M #2	05/20/97	09/24/97
Olean	Alma Gas Inc.	009 - 23248	Young#1	10/20/97	01/09/98
Olean	Alma Gas Inc.	009 - 23250	Young #2	11/07/97	11/28/97
Persia	Studley, Bertha E.	009 - 23249	Fee #1	10/28/97	11/10/97

PERMITS ISSUED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Cattaraugus (Cont.)					
Persia	Texas Keystone, Inc.	009 - 22500	Plateau Recreation #2	05/27/97	09/15/97
Persia	Texas Keystone, Inc.	009 - 22663	Plateau Rec Area #3	05/27/97	09/23/97
Persia	Texas Keystone, Inc.	009 - 22672	Eaton #4	07/22/97	09/30/97
Persia	Texas Keystone, Inc.	009 - 23242	Cattaraugus Rod & Gun #1	09/10/97	10/20/97
Persia	Texas Keystone, Inc.	009 - 23243	Tussing #1	09/10/97	10/10/97
Persia	Texas Keystone, Inc.	009 - 23244	Tussing #2	09/10/97	10/27/97
Cayuga					
Aurelius	F & G Exploration	011 - 21694	Bacon 3	04/08/97	08/13/97
Chautauqua					
Busti	Curtis & Son Oil, Inc.	013 - 23239	Blodgett-2 #18	08/13/97	09/02/97
Busti	Curtis & Son Oil, Inc.	013 - 23241	Blodgett 2 #20	09/10/97	09/15/97
Busti	Curtis & Son Oil, Inc.	013 - 23246	Blodgett 2 #19	09/24/97	09/29/97
Busti	Libra Petroleum Co.	013 - 22682	Crandall L #36	04/02/97	08/12/97
Busti	Libra Petroleum Co.	013 - 22683	Crandall L #37	04/02/97	08/15/97
Busti	Libra Petroleum Co.	013 - 22684	Crandall L #38	04/02/97	08/18/97
Busti	Pefley Oil & Gas Inc.	013 - 22685	Labarte #5G	04/21/97	04/21/97
Busti	Pefley Oil & Gas Inc.	013 - 22686	Labarte #6G	04/21/97	10/06/97
Busti	Pefley Oil & Gas Inc.	013 - 23251	Dahlgren 1G	12/12/97	01/20/98
Carroll	Wilkes Energy, Inc.	013 - 22716	Jones #1	07/10/97	11/17/97
Carroll	Wilkes Energy, Inc.	013 - 22717	Finch #1	07/10/97	09/02/97
Chautauqua	Belden & Blake Corporation	013 - 23240	Harrington #3	08/21/97	08/25/97
Chautauqua	Stedman Energy Inc.	013 - 22709	Weise #1	06/06/97	07/11/97
Gerry	Nornew, Inc	013 - 23245	Reed, R #1	03/23/98	**/**/**
Kiantone	Nornew, Inc	013 - 22677	Nelson, R #1	01/31/97	02/19/97
Kiantone	Nornew, Inc	013 - 22678	Eckman #1	02/07/97	07/18/97
Kiantone	Nornew, Inc	013 - 22679	Banta #1	02/07/97	02/25/97
Kiantone	Nornew, Inc	013 - 22734	Kiantone #1	07/18/97	07/23/97
Kiantone	Nornew, Inc	013 - 22735	Clark #1	01/23/98	01/23/98
Kiantone	Nornew, Inc	013 - 22736	Clark #2	07/18/97	**/**/**
Portland	Belden & Blake Corporation	013 - 22732	Becker #3	07/18/97	07/29/97
Stockton	Belden & Blake Corporation	013 - 22731	Bissell/Babcock #2	07/18/97	07/21/97
Stockton	Belden & Blake Corporation	013 - 22733	Kasbohm #1	07/21/97	08/04/97
Stockton	Belden & Blake Corporation	013 - 22737	Josephson #3	08/11/97	08/18/97
Westfield	Belden & Blake Corporation	013 - 23247	Hayner #2	10/02/97	12/09/97
Chemung					
Van Etten	Potter-Mckean Resources	015 - 21696	Maki 1	05/01/97	05/19/97
Van Etten	Potter-Mckean Resources	015 - 21701	Koabel 1	06/12/97	06/11/97

PERMITS ISSUED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Erie					
Concord	National Fuel Gas Supply Corp.	029 - 22680	Wittmeyer #2	02/28/97	03/03/97
Concord	U S Energy Development Corp.	029 - 22674	Rauh #1	01/02/97	**/**/**
Concord	U S Energy Development Corp.	029 - 22676	Wittmeyer #1	01/17/97	02/13/97
Holland	National Fuel Gas Supply Corp.	029 - 22715	Paluch #1	06/24/97	08/18/97
Genesee					
Pembroke	Subsea Oil & Gas Inc.	037 - 21693	Visone 1	03/27/97	07/07/97
Pembroke	Subsea Oil & Gas Inc.	037 - 21697	Staebell 2	06/02/97	07/11/97
Madison					
Eaton	Ardent Resources, Inc.	053 - 21698	Barringer 1	06/18/97	08/05/97
Eaton	Ardent Resources, Inc.	053 - 21702	Keefe 1	06/26/97	**/**/**
Lebanon	Ardent Resources, Inc.	053 - 21699	Beers 1	06/05/97	07/15/97
Lebanon	Ardent Resources, Inc.	053 - 21700	Warren 1	06/18/97	07/28/97
Schuyler					
Dix	Cargill Inc.	097 - 21695	Fee 25	05/20/97	06/11/97
Reading	New York State Electric & Gas	097 - 61188	Akzo 30	11/19/97	12/09/97
Steuben					
Canisteo	Steuben Gas Storage Co.	101 - 21449	Adrian 9	12/09/97	**/**/**
Erwin	Vandermark Exploration Inc.	101 - 21714	Corning Enterprises 1	09/18/97	01/16/98
Hornellsville	Eastern American Energy Corp.	101 - 21593	Hollands 1	06/25/97	**/**/**
Prattsburg	Columbia Natural Resources	101 - 21707	Prattsburg Town Farm 1	03/16/98	**/**/**
Prattsburg	Columbia Natural Resources	101 - 21712	Kozak 1	03/16/98	**/**/**
Prattsburg	Columbia Natural Resources	101 - 21715	Grace 1	05/13/98	**/**/**
Prattsburg	Columbia Natural Resources	101 - 21717	Slayton 1	09/25/97	**/**/**
Pulteney	Columbia Natural Resources	101 - 21703	Radigan 1	07/23/97	12/29/97
Pulteney	Columbia Natural Resources	101 - 21705	Smith 1	07/23/97	11/05/97
Pulteney	Columbia Natural Resources	101 - 21706	Fox 1 (623217)	05/04/98	**/**/**
Pulteney	Columbia Natural Resources	101 - 21710	Bergstresser 1	08/21/97	12/05/97
Troupsburg	True Oil Company	101 - 21718	Demun 1	10/01/97	12/17/97
Wayne	Columbia Natural Resources	101 - 21704	Fimlaid 1	07/23/97	10/05/97
Tioga					
Nichols	Belden & Blake Corporation	107 - 21708	Waite 1	08/18/97	12/20/97
Nichols	Belden & Blake Corporation	107 - 21709	Nichols-Mead 1	10/08/97	12/10/97

PERMITS ISSUED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	ISSUE DATE	SPUD DATE
Tompkins					
Dryden	Columbia Natural Resources	109 - 21711	Wolf 1	10/09/97	**/**/**
Dryden	Columbia Natural Resources	109 - 21716	Stairs 1	11/06/97	**/**/**
Wyoming					
Gainesville	Morton International, Inc.	121 - 22729	Morton Salt #41	05/01/97	**/**/**
Gainesville	Morton International, Inc.	121 - 22730	Morton Salt #42	05/01/97	05/04/98
Middlebury	Texas Brine Corp.	121 - 22689	Texas Brine #31	04/22/97	08/05/97
Middlebury	Texas Brine Corp.	121 - 22690	Texas Brine #34	04/22/97	08/12/97
Middlebury	Texas Brine Corp.	121 - 22691	Texas Brine #35	04/22/97	07/22/97
Middlebury	Texas Brine Corp.	121 - 22692	Texas Brine #36	04/22/97	07/28/97
Middlebury	Texas Brine Corp.	121 - 22693	Texas Brine #38	04/22/97	07/08/97
Middlebury	Texas Brine Corp.	121 - 22694	Texas Brine #39	04/22/97	07/16/97
Middlebury	Texas Brine Corp.	121 - 22723	Hooker #128	07/14/97	08/24/97
Middlebury	Texas Brine Corp.	121 - 22724	Hooker #129	07/14/97	08/18/97
Middlebury	Texas Brine Corp.	121 - 22725	Hooker #130	07/14/97	09/09/97
Middlebury	Texas Brine Corp.	121 - 22726	Hooker #131	07/14/97	09/02/97
Middlebury	Texas Brine Corp.	121 - 22727	Hooker #132	07/14/97	09/24/97
Middlebury	Texas Brine Corp.	121 - 22728	Hooker #133	07/14/97	09/16/97

Table 10. Permits Issued During 1997.

WELLS COMPLETED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	TD	COMPL DATE	WELL FIELD TYPE
Allegany						
Andover	Otis Eastern Service Inc.	003 - 22665	Lot 47 #2A	1,400	08/06/97	OD Fulmer Valley
Andover	Otis Eastern Service Inc.	003 - 22667	Lynch, C #2A	1,400	08/04/97	OD Fulmer Valley
Andover	Otis Eastern Service Inc.	003 - 22710	Lynch, C Est #3A	1,400	07/31/97	OD Fulmer Valley
Andover	Otis Eastern Service Inc.	003 - 22712	Mcandrew, R Est #2A	1,400	08/05/97	OD Fulmer Valley
Andover	Otis Eastern Service Inc.	003 - 22711	Perry #4A	1,400	08/07/97	OD Fulmer Valley
Bolivar	J. J. Bucher Producing Corp.	003 - 22713	Wheeler #185	1,594	09/18/97	OD Richburg
Independence	Richardson Petroleum Corp.	003 - 22701	Clark 100 #10	1,602	07/21/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22702	Clark 100 #11	1,662	07/23/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22706	Clark 100 #15	1,682	07/28/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22707	Clark 100 #16	1,782	07/25/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22687	Clark 100 #3	1,737	06/18/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22688	Clark 100 #4	1,712	06/23/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22697	Clark 100 #6	1,788	06/05/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22698	Clark 100 #7	1,797	06/11/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22699	Clark 100 #8	1,776	06/13/97	OD Beech Hill-Indep. *
Independence	Richardson Petroleum Corp.	003 - 22700	Clark 100 #9	1,744	07/15/97	OD Beech Hill-Indep. *
Wellsville	Otis Eastern Service Inc.	003 - 22666	Lot 103 #1A	1,547	08/12/97	OD Fulmer Valley
Broome						
Colesville	Belden & Blake Corporation	007 - 21713	Goozovat 1	5,004	11/28/97	DW
Cattaraugus						
Carrollton	Altimus & Associates	009 - 22668	Saterlee #1A	1,130	04/01/97	OD Chipmunk
Carrollton	Pennsylvania General Energy	009 - 22661	Bucher #W5	1,511	01/08/97	OD Bradford
Carrollton	Pennsylvania General Energy	009 - 22662	Bucher #W9	1,396	01/14/97	OD Bradford
Carrollton	Pennsylvania General Energy	009 - 22658	Evans #W4	1,402	01/17/97	OD Bradford
Carrollton	Woods Oil Company, Inc.	009 - 22719	Woods # 9	1,499	09/22/97	OD Bradford
Carrollton	Woods Oil Company, Inc.	009 - 22720	Woods #10	1,099	09/19/97	OD Bradford
Carrollton	Woods Oil Company, Inc.	009 - 22721	Woods #11	1,199	09/04/97	OD Bradford
Carrollton	Woods Oil Company, Inc.	009 - 22722	Woods #12	1,198	09/10/97	OD Bradford
Carrollton	Woods Oil Company, Inc.	009 - 22718	Woods #8	1,200	09/16/97	OD Bradford
Freedom	A. J. Lease Account	009 - 22657	K.C. Powell Et. Al. #1	2,755	01/07/97	OW Bixby Hill
Cayuga						
Aurelius	F & G Exploration	011 - 21694	Bacon 3	1,998	10/17/97	GD Auburn
Chautauqua						
Busti	Pefley Oil & Gas Inc.	013 - 22619	Drayer #1G	638	07/27/97	OD Busti
Busti	Pefley Oil & Gas Inc.	013 - 22509	Drayer #5G	480	01/23/97	OD Busti

WELLS COMPLETED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	TD	COMPL DATE	WELL FIELD TYPE
Busti	Pefley Oil & Gas Inc.	013 - 22669	Drayer 4G	540	05/16/97	OD Busti
Charlotte	Oil, Gas & Land Services, Inc	013 - 22582	NYSRA #1-13	4,067	09/29/97	GD Lakeshore
Chautauqua	Belden & Blake Corporation	013 - 23240	Harrington #3	3,543	09/04/97	GD Lakeshore
Kiantone	Nornew, Inc	013 - 22679	Banta #1	4,610	05/01/97	GD Lakeshore
Kiantone	Nornew, Inc	013 - 22678	Eckman #1	4,750	08/01/97	GD Lakeshore
Kiantone	Nornew, Inc	013 - 22734	Kiantone #1	4,520	08/08/97	GD Lakeshore
Kiantone	Nornew, Inc	013 - 22677	Nelson, R #1	4,643	04/24/97	GD Lakeshore
Portland	Belden & Blake Corporation	013 - 22732	Becker #3	3,214	08/12/97	GD Lakeshore
Sherman	Ardent Resources, Inc.	013 - 22671	Burkholder Unit #3	4,310	01/13/97	GD Lakeshore
Sherman	Ardent Resources, Inc.	013 - 22204	Cady #2	4,397	01/29/97	GD Lakeshore
Sherman	Ardent Resources, Inc.	013 - 22673	Wiggers Unit #1	4,140	02/14/97	GD Lakeshore
Stockton	Belden & Blake Corporation	013 - 22731	Bissell/Babcock #2	3,579	08/07/97	GD Lakeshore
Stockton	Belden & Blake Corporation	013 - 22737	Josephson #3	3,613	09/04/97	GD Lakeshore
Stockton	Belden & Blake Corporation	013 - 22733	Kasbohm #1	3,242	09/04/97	GD Lakeshore
Chemung						
Van Etten	Potter-Mckean Resources	015 - 21701	Koabel 1	3,732	07/18/97	GD Van Etten
Van Etten	Potter-Mckean Resources	015 - 21696	Maki 1	3,587	07/22/97	GD Van Etten
Erie						
Concord	National Fuel Gas Supply Cor	029 - 22680	Wittmeyer #2	1,806	03/19/97	GD Spooner Creek
Concord	U S Energy Development Cor	029 - 22676	Wittmeyer #1	2,550	02/22/97	DH Spooner Creek
Holland	National Fuel Gas Supply Cor	029 - 22664	Belling 1 #7389	2,536	02/21/97	DH Holland
Holland	National Fuel Gas Supply Cor	029 - 22715	Paluch #1	5,438	11/17/97	STL Holland
Genesee						
Pembroke	Subsea Oil & Gas Inc.	037 - 21697	Staebell 2	1,077	07/24/97	GD Alden-Lancaster
Pembroke	Subsea Oil & Gas Inc.	037 - 21693	Visone 1	1,076	07/17/97	GD Alden-Lancaster
Madison						
Eaton	Ardent Resources, Inc.	053 - 21698	Barringer 1	3,112	08/23/97	GE
Lebanon	Ardent Resources, Inc.	053 - 21699	Beers 1	4,734	08/21/97	GW
Schuyler						
Dix	Cargill Inc.	097 - 21695	Fee 25	2,770	07/01/97	BRL Cargill
Tioga						
Nichols	Belden & Blake Corporation	107 - 21709	Nichols-Mead 1	4,928	12/19/97	GD Stagecoach

WELLS COMPLETED DURING 1997

TOWN	OWNER	API NUMBER	WELL NAME	TD	COMPL DATE	WELL FIELD TYPE
Wyoming						
Middlebury	Texas Brine Corp.	121 - 22621	Hooker #124	1,520	03/02/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22624	Hooker #125	1,517	03/02/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22623	Hooker #126	1,521	01/23/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22622	Hooker #127	1,522	02/09/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22724	Hooker #129	1,518	12/07/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22725	Hooker #130	1,515	12/28/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22726	Hooker #131	1,512	12/29/97	BR Dale
Middlebury	Texas Brine Corp.	121 - 22618	Texas Brine #29	1,580	02/02/97	BR Wyoming Village
Middlebury	Texas Brine Corp.	121 - 22693	Texas Brine #38	1,648	12/05/97	BR Wyoming
Middlebury	Texas Brine Corp.	121 - 22694	Texas Brine #39	1,658	12/05/97	BR Wyoming
Middlebury	Texas Brine Corp.	121 - 22558	Texas Brine #69	1,393	03/24/97	BR Wyoming Village

* Beech Hill-Independence

Table 11. Wells completed During 1997.

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	ACTIVE			INACTIVE			WATER INJECTION WELLS	
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS		GAS WELLS
Allegany County								
Alfred	0	0	0	0	0	0	1	0
Allen	0	8,317	0	0	0	1	0	0
Alma	5,116	62,174	2,627	238	104	30	15	40
Almond	0	0	0	0	0	0	1	0
Amity	89	39,559	467	4	0	2	2	0
Andover	4,015	285	82	117	31	4	0	11
Bolivar	10,579	1,654	118,381	401	241	0	3	179
Caneadea	0	0	0	0	0	0	1	0
Centerville	0	0	0	0	0	0	1	0
Clarksville	782	270	0	20	4	0	0	0
Friendship	25	316	45	0	0	2	0	0
Genesee	997	1,130	955	86	135	4	9	20
Independence	19,480	72,433	66,442	269	7	5	5	19
New Hudson	0	0	0	0	0	0	1	0
Rushford	0	0	0	0	0	0	1	0
Scio	1,189	19,592	3,958	59	109	3	4	0
Ward	0	210	0	0	0	3	0	0
Wellsville	2,987	25	146	63	43	2	1	9
Willing	309	275,604	5	17	19	4	7	0
Wirt	864	50	1,333	94	95	1	0	0
County Total	46,432	481,619	194,441	1,368	788	61	52	278
Cattaraugus County								
Allegany	70,659	97,463	465,778	1,048	194	5	1	179
Ashford	2,297	27,181	8	1	0	14	2	0
Carrollton	41,767	50,325	8,942	261	131	93	36	90
Conewango	0	186,240	0	0	0	76	1	0
Dayton	0	54,724	176	5	0	39	1	0
East Otto	0	4,728	13	0	0	6	2	0
Ellicottville	0	10,462	0	0	3	11	2	0
Farmersville	35	1	35	3	1	0	2	0
Freedom	5,398	8,833	2	0	0	13	1	0
Great Valley	0	841	0	0	0	1	0	0
Hinsdale	20	0	0	4	0	0	0	0
Leon	0	468,671	35	0	0	71	6	0
Little Valley	0	200	0	0	0	2	0	0
Machias	0	3,806	0	0	0	2	1	0
Napoli	0	3,557	0	0	0	3	0	0
New Albion	0	15,650	0	0	0	8	4	0

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Cattaraugus County (Cont.)								
Olean	6,824	139,606	2,128	190	55	7	2	5
Otto	0	52,948	46	0	0	18	3	0
Perrysburg	0	2,511	0	0	0	7	1	0
Persia	0	5,437	0	0	0	6	3	0
Portville	57	0	0	5	0	0	0	0
Randolph	724	113,035	0	0	0	86	0	0
South Valley	0	4,820	0	0	0	3	0	0
Yorkshire	0	35,658	10	0	0	18	4	0
County Total	127,781	1,286,697	477,173	1,517	384	489	72	274
Cayuga County								
Auburn	0	6,293	0	0	0	1	0	0
Aurelius	0	593,745	18,791	0	0	136	1	1
Cato	0	1	0	0	0	1	0	0
Fleming	0	120,126	3,862	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	1	0	0
Sennett	0	6,262	0	0	0	2	0	0
Springport	0	553,337	3,926	0	0	110	5	0
Summerhill	0	0	0	0	0	1	0	0
Throop	0	8,282	0	0	0	9	0	0
County Total	0	1,288,047	26,579	0	0	296	9	1
Chautauqua County								
Arkwright	0	226,569	2,212	0	0	114	16	0
Busti	26,821	531,329	1,130	255	29	105	17	0
Carroll	0	94,505	41	0	3	49	3	0
Charlotte	0	148,717	1,659	1	1	96	6	0
Chautauqua	0	706,674	2,974	0	0	312	15	0
Cherry Creek	0	162,205	885	0	0	120	5	0
Clymer	5,067	484,258	10,669	4	1	105	18	0
Dunkirk	0	112,768	2,154	0	0	42	6	0
Ellery	4,668	463,925	9,393	10	0	111	14	0
Ellicott	0	159,743	141	0	0	48	1	0
Ellington	0	225,110	620	0	0	177	3	0
French Creek	0	49,588	0	0	0	48	21	0
Gerry	13,170	358,515	9,271	13	3	142	16	0

Chautauqua County (Cont.)

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN				ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Hanover	0	140,529	4,168	0	0	71	11	0
Harmony	0	310,245	6,915	0	0	103	13	0
Jamestown	0	16,794	75	0	0	3	1	0
Kiantone	0	287,724	0	0	0	40	0	0
Mina	0	114,213	1,593	0	0	60	14	0
North Harmony	6,228	404,164	10,234	95	11	56	9	0
Poland	73	299,361	0	2	0	108	1	0
Pomfret	1	323,266	3,577	1	0	168	21	0
Portland	0	292,190	508	0	0	130	7	0
Ripley	0	275,699	1,612	13	0	149	27	0
Sheridan	0	202,686	1,943	0	0	87	10	0
Sherman	471	239,982	3,996	1	0	65	14	0
Stockton	0	267,240	1,858	0	0	107	7	0
Villanova	0	163,545	3,202	0	0	75	5	0
Westfield	0	634,438	3,617	0	0	247	18	0

County Total	56,499	7,695,982	84,447	395	48	2,938	299	0
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Chemung County

Elmira	0	0	0	0	0	1	0	0
Van Etten	0	200	0	0	0	3	2	0

County Total	0	200	0	0	0	4	2	0
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Erie County

Alden	0	87,514	230	0	0	52	11	0
Amherst	0	0	0	0	0	0	1	0
Aurora	0	77,228	77	0	0	38	13	0
Boston	0	29,889	60	0	0	34	0	0
Brant	0	168,115	1,413	0	0	95	9	0
Buffalo	0	686	0	0	0	2	0	0
Cheektowaga	0	6,071	6	0	0	11	1	0
Clarence	0	505	1	0	0	6	2	0
Colden	0	5,740	80	0	0	10	1	0
Collins	0	2,233	0	0	0	4	2	0
Concord	0	258,221	503	0	0	56	5	0
Eden	0	130,073	725	0	0	132	12	0
Elma	0	159,676	592	0	0	52	6	0
Evans	0	159,550	1,405	0	0	75	26	0
Hamburg	0	92,003	0	0	0	46	8	0

Erie County (Cont.)

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Holland	0	0	0	0	0	1	2	0
Lackawanna	0	1,436	0	0	0	2	1	0
Lancaster	0	59,539	19	0	0	24	5	0
Marilla	0	37,893	52	0	0	26	9	0
Newstead	0	96,510	0	0	0	42	16	0
North Collins	0	55,416	492	0	0	54	6	0
Orchard Park	60	60,922	70	1	0	35	7	0
Sardinia	0	22,890	10	0	0	11	2	0
Tonawanda	0	2,440	0	0	0	6	1	0
Wales	0	11,151	158	0	0	4	10	0
West Seneca	0	29,332	0	0	0	5	1	0
County Total	60	1,555,033	5,893	1	0	823	157	0

Genesee County

Alabama	0	28,932	175	0	0	26	1	0
Alexander	0	68,009	696	0	0	41	0	0
Batavia	0	65,772	495	0	0	42	2	0
Bergen	0	43,667	0	0	0	2	1	0
Bethany	0	25,870	2,200	0	0	30	0	0
Darien	0	447,802	1,987	0	0	203	7	0
Elba	0	2,610	60	0	0	1	0	0
Le Roy	0	24,784	0	0	0	5	0	0
Oakfield	0	20,027	242	0	0	13	0	0
Pavilion	0	18,037	270	0	0	15	6	0
Pembroke	0	211,949	1,212	0	0	110	0	0
Stafford	0	319	0	0	0	1	1	0
County Total	0	957,778	7,337	0	0	489	18	0

Livingston County

Avon	0	12,768	0	0	0	13	3	0
Caledonia	0	57,015	388	0	0	49	2	0
Groveland	0	0	0	0	0	2	1	0
Leicester	0	36,722	130	0	0	23	4	0
Nunda	0	0	0	0	0	1	0	0
Ossian	0	0	0	0	0	1	0	0
Portage	0	1,054	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

Livingston County (Cont.)

York	0	41,172	518	0	0	48	2	0
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OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE OIL WELLS	INACTIVE OIL WELLS	ACTIVE GAS WELLS	INACTIVE GAS WELLS	WATER INJECTION WELLS
County Total	0	148,781	1,036	0	0	146	12	0
Madison County								
Brookfield	0	0	0	0	0	1	0	0
Eaton	0	2,269	0	0	0	1	0	0
Lebanon	0	28,630	0	0	0	4	1	0
County Total	0	30,899	0	0	0	6	1	0
Monroe County								
Riga	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	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	1	0
County Total	0	0	0	0	0	1	1	0
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	12,653	0	0	0	3	0	0
Canandaigua	0	0	0	0	0	0	1	0
East Bloomfield	0	59,433	0	0	0	11	1	0
Geneva	0	983	0	0	0	2	1	0
Ontario County (Cont.)								
Phelps	0	0	0	0	0	0	1	0
Richmond	0	1,103	0	0	0	2	0	0

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN				ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER
	OIL	GAS	WATER	OIL	OIL	GAS	GAS	INJECTION
	(BBLs)	(MCF)	(BBLs)	WELLS	WELLS	WELLS	WELLS	WELLS
West Bloomfield	0	2,046	0	0	0	2	0	0
County Total	0	76,218	0	0	0	20	4	0
Oswego County								
Richland	0	1	0	0	0	6	5	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	8	6	0
Schuyler County								
Cayuta	0	0	0	0	0	0	1	0
Dix	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	2	0
Seneca County								
Fayette	0	502,254	10,827	0	0	94	1	0
Junius	0	0	0	0	0	1	0	0
Seneca Falls	0	2,294	0	0	0	1	0	0
Varick	0	211,483	2,526	0	0	44	0	0
Waterloo	0	0	0	0	0	0	1	0
County Total	0	716,031	13,353	0	0	140	2	0
Steuben County								
Addison	0	0	0	0	0	0	1	0
Avoca	0	3,032	0	0	0	2	1	0
Bath	0	20,090	0	0	0	2	0	0
Cameron	0	0	0	0	0	1	1	0
Canisteo	0	135	0	0	0	1	0	0
Dansville	0	10,564	0	0	0	1	0	0
Erwin	0	0	0	0	0	0	1	0
Greenwood	166	1,200	10	3	1	2	0	0
Hartsville	0	0	0	0	0	2	2	0
Hornby	0	452	98	0	0	1	1	0
Steuben County (Cont.)								
Hornellsville	0	15,102	0	0	0	1	0	0
Howard	0	1,644	0	0	0	2	1	0
Jasper	0	50,743	3	0	0	3	5	0

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE		INACTIVE		WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Prattsburg	0	51,757	0	0	0	2	0	0
Pulteney	0	97,091	0	0	0	3	3	0
Troupsburg	0	0	0	0	0	0	2	0
Wayne	0	0	0	0	0	0	1	0
West Union	37,776	46,182	26,871	172	3	1	2	1
County Total	37,942	297,992	26,982	175	4	24	21	1

Tioga County

Nichols	0	200,680	62	0	0	4	2	0
Owego	0	1,052,313	289	0	0	8	1	0
County Total	0	1,252,993	351	0	0	12	3	0

Wayne County

Butler	0	1,800	0	0	0	2	0	0
County Total	0	1,800	0	0	0	2	0	0

Wyoming County

Arcade	0	34221	20	0	0	19	21	0
Attica	0	1402	35	0	0	2	0	0
Bennington	0	181673	3308	0	0	88	1	0
Castile	0	8677	0	0	0	3	1	0
Covington	0	39619	469	0	0	23	2	0
Gainesville	0	0	0	0	0	0	2	0
Genesee Falls	0	0	0	0	0	0	1	0
Java	0	20777	0	0	0	22	1	0
Middlebury	0	0	0	0	0	7	1	0
Perry	0	59982	230	0	0	48	3	0
Pike	0	2500	0	0	0	1	0	0
Sheldon	0	44626	569	0	0	41	0	0
Warsaw	0	1607	0	0	0	6	0	0
County Total	0	395,084	4,631	0	0	260	33	0

Yates County

Barrington	0	0	0	0	0	0	1	0
Benton	0	6534	0	0	0	9	2	0
Milo	0	0	0	0	0	1	2	0
Potter	0	0	0	0	0	0	1	0

OIL AND GAS PRODUCTION BY TOWN IN EACH COUNTY, 1997

TOWN	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE OIL WELLS	INACTIVE OIL WELLS	ACTIVE GAS WELLS	INACTIVE GAS WELLS	WATER INJECTION WELLS
Torrey	0	0	0	0	0	0	1	0
County Total	0	6,534	0	0	0	10	7	0
STATE TOTAL	268,714	16,193,289	842,223	3,456	1,224	5,731	704	554

Table 12. Oil and Gas Production by Town in Each County, 1997

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	ACTIVE			INACTIVE			WATER	
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	INJECTION WELLS
Allegany County								
Alfred	0	210	0	0	0	3	1	0
Allen	0	8,317	0	0	0	1	0	0
Alma	3,975	0	2,240	83	0	0	0	0
Andover	537	55	28	22	0	0	0	0
Beech Hill-Independence	19,558	72,433	66,446	255	18	6	8	30
Browning	1,000	0	3,000	47	17	0	0	0
Ceres	1,679	120	4,745	16	0	1	1	0
Clarksville	780	0	0	15	4	0	0	0
Farmersville	0	0	0	0	0	0	1	0
Ford'S Brook	59	25	64	96	51	2	0	15
Friendship	0	316	0	0	0	1	0	0
Fulmer Valley	6,696	230	201	188	73	4	0	9
Gordon Brook	0	59,151	1,355	0	0	5	6	0
Houghton	0	0	0	0	0	0	1	0
Karr Valley	0	0	0	0	0	0	1	0
Nile	97	0	45	14	12	1	0	0
Richburg	11,962	14,940	116,137	627	613	8	19	224
Scio	89	0	0	4	0	0	0	0
Sharon	0	4,859	0	0	0	23	1	0
Sherry Hill	0	0	0	0	0	0	1	0
State Line	0	320,963	180	1	0	6	9	0
Unnamed	0	0	0	0	0	0	3	0
County Total	46,432	481,619	194,441	1,368	788	61	52	278
Cattaraugus County								
Ashford	0	22,406	7	0	0	12	2	0
Bixby Hill	5,398	1,468	1	0	0	1	0	0
Bradford	93,700	160,790	440,321	940	218	92	36	225
Bryant Hill Creek	0	0	0	0	3	0	0	0
Chaffee-Arcade	0	44,966	11	0	0	26	5	0
Chipmunk	14,898	123,949	33,021	212	90	7	1	45
Dayton	0	10,700	24	0	0	6	0	0
Dutch Hill	2,297	4,775	1	1	0	2	0	0
East Otto	0	0	0	0	0	0	2	0
Ellicottville	0	0	0	0	0	2	0	0
Farmersville	35	1	35	3	1	0	0	0
Five Mile	10,099	2,655	3,342	301	55	6	0	4
Four Mile	630	0	164	55	17	0	0	0
Great Valley	0	841	0	0	0	1	0	0
Hog Hollow	0	1,863	0	0	0	1	2	0

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	ACTIVE			INACTIVE			WATER	
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS INJECTION WELLS	INJECTION WELLS
Cattaraugus County (Cont.)								
Indian Creek	0	0	0	0	0	1	0	0
Lakeshore	724	861,498	187	5	0	307	18	0
Little Valley	0	200	0	0	0	1	0	0
Nashville	0	2,986	0	0	0	1	0	0
Pigeon Hill	0	0	0	0	0	5	1	0
Unnamed	0	0	0	0	0	2	2	0
Utley Brook	0	47,599	59	0	0	16	3	0
County Total	127,781	1,286,697	477,173	1,517	384	489	72	274
Cayuga County								
Auburn	0	5,984	0	0	0	3	0	0
Auburn Geothermal	0	6,293	0	0	0	1	0	0
Blue Tail Rooster	0	1	0	0	0	1	0	0
Summerhill	0	0	0	0	0	1	0	0
Unnamed	0	0	0	0	0	1	1	0
Wells College	0	1	0	0	0	1	0	0
West Auburn	0	1,275,768	26,579	0	0	288	8	1
County Total	0	1,288,047	26,579	0	0	296	9	1
Chautauqua County								
Busti	26,821	23,305	0	255	29	8	0	0
Carroll	0	0	0	0	3	0	0	0
Cassadaga Creek	0	3,484	0	0	0	1	0	0
Clymer	5,067	4,273	6,145	4	0	1	0	0
Clymer Hill	0	0	0	0	1	0	0	0
Conewango Creek	0	0	0	0	0	1	0	0
Ellery	4,668	23,005	4,897	10	0	6	10	0
Folsom Creek	98	722	0	1	0	1	0	0
Fredonia	1	0	0	1	0	0	0	0
Gerry-Charlotte	12,302	67,269	7,029	11	3	13	5	0
Harmony	471	1,185	767	1	0	1	0	0
Kelly Hill	0	4,723	0	0	0	1	0	0
Lakeshore	927	7,507,018	61,513	98	8	2,885	275	0
Mud Creek	0	8	0	0	0	1	0	0
North Harmony	6,071	34,568	4,096	12	3	16	3	0
Sheridan	0	0	0	0	0	0	1	0
Sprague Hill	73	17,742	0	2	0	1	0	0
Unnamed	0	8,680	0	0	1	2	5	0

Chautauqua County (Cont.)

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD				ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	INJECTION WELLS
County Total	56,499	7,695,982	84,447	395	48	2,938	299	0
Chemung County								
Doolittle Hill	0	0	0	0	0	1	0	0
Elmira	0	0	0	0	0	1	0	0
Van Etten	0	200	0	0	0	2	2	0
County Total	0	200	0	0	0	4	2	0
Erie County								
Akron	0	46,152	0	0	0	16	10	0
Alden-Lancaster	0	199,891	256	0	0	115	25	0
Brant-Eden	0	361,101	2,668	0	0	285	25	0
Buffalo	0	8,728	0	0	0	16	4	0
Buffalo Creek	0	41,677	15	0	0	27	3	0
Central Wales	0	0	0	0	0	3	4	0
Chaffee-Arcade	0	3,540	0	0	0	1	1	0
Chestnut Ridge	0	348	0	0	0	1	0	0
Clarence	0	30	0	0	0	1	1	0
Concord	0	126,334	375	0	0	34	1	0
Concord-Onondaga	0	54,782	28	0	0	3	1	0
Cowlesville	0	5,019	37	0	0	5	8	0
East Aurora	0	87,523	147	0	0	35	12	0
Elma	0	104,774	483	0	0	40	4	0
Glenwood	0	4,764	80	0	0	6	3	0
Lakeshore	0	25,951	8	0	0	4	0	0
Lakeview	0	192,883	1,186	0	0	87	32	0
North Collins	0	58,226	442	0	0	55	6	0
Orchard Park-Hamburg	0	99,119	0	0	0	54	6	0
Sardinia	0	27,398	10	0	0	15	1	0
South Wales	0	0	0	0	0	1	0	0
Spooner Creek	0	38,877	0	0	0	2	0	0
Travers	60	0	0	1	0	0	0	0
Wales	0	8,324	158	0	0	1	4	0
West Seneca	0	59,592	0	0	0	16	4	0
Zoar	0	0	0	0	0	0	2	0
County Total	60	1,555,033	5,893	1	0	823	157	0

Genesee County

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	ACTIVE			INACTIVE			WATER	
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS INJECTION WELLS	INJECTION WELLS
Akron	0	361	0	0	0	0	1	0
Alden-Lancaster	0	318,431	205	0	0	138	4	0
Alexander	0	13,012	9	0	0	7	0	0
Bergen	0	43,667	0	0	0	2	1	0
Bethany	0	25,570	2,200	0	0	29	0	0
Danley Corners	0	62,300	744	0	0	26	1	0
Ellicott Creek	0	0	0	0	0	0	2	0
Huron Creek	0	321,925	2,691	0	0	174	1	0
Indian Falls	0	129,072	1,218	0	0	91	1	0
Pavilion	0	2,202	0	0	0	5	2	0
Roanoke	0	1,836	0	0	0	2	4	0
Uhley Corners-Caledonia	0	39,402	270	0	0	15	1	0
County Total	0	957,778	7,337	0	0	489	18	0
Livingston County								
Avon	0	12,768	0	0	0	13	3	0
Dansville	0	50	0	0	0	7	0	0
Finnegan Hill	0	17,700	68	0	0	10	0	0
Groveland	0	0	0	0	0	2	1	0
Hunt Hollow	0	1,054	0	0	0	4	0	0
Leicester	0	9,778	40	0	0	12	4	0
Silver Lake	0	26,944	90	0	0	12	0	0
Uhley Corners-Caledonia	0	80,487	838	0	0	86	4	0
County Total	0	148,781	1,036	0	0	146	12	0
Madison County								
Lebanon	0	30,899	0	0	0	5	1	0
Sangerfield	0	0	0	0	0	1	0	0
County Total	0	30,899	0	0	0	6	1	0
Monroe County								
Churchville	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	0
Niagara County								
Sanborn	0	1,500	0	0	0	1	0	0

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
County Total	0	1,500	0	0	0	1	0	0
Oneida County								
Sangerfield	0	0	0	0	0	1	0	0
Unnamed	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	1	1	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	983	0	0	0	2	0	0
East Bloomfield	0	59,433	0	0	0	11	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	1	0	0
West Bloomfield	0	15,049	0	0	0	5	0	0
Whetstone Brook	0	753	0	0	0	1	0	0
County Total	0	76,218	0	0	0	20	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	6	5	0
County Total	0	101	0	0	0	8	6	0
Schuyler County								
Unnamed	0	0	0	0	0	0	2	0
Schuyler County (Cont.)								
County Total	0	0	0	0	0	0	2	0

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	INJECTION WELLS
Seneca County								
Fayette-Waterloo	0	695,138	13,353	0	0	135	1	0
Geneva	0	0	0	0	0	0	1	0
Neilson Road Pool	0	13,938	0	0	0	1	0	0
Reeder Creek	0	4,461	0	0	0	1	0	0
Rose Hill	0	200	0	0	0	1	0	0
Seneca Falls	0	2,294	0	0	0	1	0	0
Whiskey Hill	0	0	0	0	0	1	0	0
County Total	0	716,031	13,353	0	0	140	2	0
Steuben County								
Andover	166	0	10	3	1	0	0	0
Avoca	0	3,032	0	0	0	2	1	0
Beech Hill-Independence	37,776	46,182	26,871	172	3	0	0	1
Big Creek	0	15,102	0	0	0	1	0	0
Colonel Bills Creek	0	135	0	0	0	1	0	0
Crosby Creek	0	0	0	0	0	0	1	0
Dry Wildcat	0	0	0	0	0	0	3	0
Glodes Corners Road	0	97,123	0	0	0	4	3	0
Howard	0	1,644	0	0	0	1	0	0
Hungry Hollow	0	0	0	0	0	1	0	0
Jackson Hill	0	1,200	0	0	0	1	0	0
Jasper	0	0	0	0	0	1	2	0
Milwaukee Creek	0	0	0	0	0	0	1	0
Northwest Harrison	0	0	0	0	0	1	0	0
Painted Post	0	452	98	0	0	1	1	0
Purdy Creek	0	0	0	0	0	2	0	0
Rathbone	0	0	0	0	0	0	1	0
Stone Hill	0	10,564	0	0	0	1	0	0
Thomas Corners	0	20,090	0	0	0	2	0	0
Unnamed	0	0	0	0	0	1	6	0
Waldo Creek	0	51,725	0	0	0	1	0	0
Wyckoff	0	50,743	3	0	0	3	2	0
County Total	37,942	297,992	26,982	175	4	24	21	1
Tioga County								
Cafferty Hill	0	73	0	0	0	1	0	0
Stagecoach	0	1,252,920	351	0	0	11	3	0

OIL AND GAS PRODUCTION BY FIELD IN EACH COUNTY, 1997

FIELD	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	INJECTION WELLS
County Total	0	1,252,993	351	0	0	12	3	0
Wayne County								
Butler Creek	0	1,800	0	0	0	2	0	0
County Total	0	1,800	0	0	0	2	0	0
Wyoming County								
Alden-Lancaster	0	26,028	79	0	0	6	1	0
Attica	0	1,202	35	0	0	1	0	0
Cascade Brook	0	109	0	0	0	9	0	0
Castile	0	0	0	0	0	0	1	0
Chaffee-Arcade	0	21,783	0	0	0	12	21	0
Cowlesville	0	1,384	25	0	0	1	0	0
Danley Corners	0	154,461	3,204	0	0	82	0	0
Dutch Hollow	0	200	0	0	0	1	0	0
Java	0	22,447	0	0	0	25	1	0
Leicester	0	81,636	699	0	0	59	3	0
Northwoods	0	9,492	20	0	0	2	0	0
Pike Corners	0	2,500	0	0	0	1	0	0
Sheldon	0	34,882	569	0	0	40	0	0
Silver Lake	0	28,059	0	0	0	17	3	0
Tozier'S Corners	0	10,820	0	0	0	2	0	0
Unnamed	0	0	0	0	0	0	2	0
Wyoming	0	81	0	0	0	2	1	0
County Total	0	395,084	4,631	0	0	260	33	0
Yates County								
Dry Wildcat	0	0	0	0	0	0	2	0
North Penn Yan	0	6,534	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	6,534	0	0	0	10	7	0
STATE TOTAL	268,714	16,193,289	842,223	3,456	1,224	5,731	704	554

Table 13. Oil and Gas Production by Field in Each County, 1997.

OIL AND GAS PRODUCTION BY FORMATION IN EACH COUNTY, 1997

FORMATION				ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER
	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	INJECTION WELLS
Allegany County								
Clarksville	780	0	0	15	4	0	0	0
Devonian Shale	0	0	0	0	0	0	1	0
Fulmer Valley	26,141	72,663	66,646	441	86	7	1	39
Marcellus	0	0	0	0	0	0	1	0
Medina	0	8,633	0	0	0	2	1	0
Onondaga	0	0	0	0	0	0	3	0
Oriskany	0	380,114	1,535	1	0	11	16	0
Penny	292	80	9	18	0	4	0	0
Penny & Fulmer Valley	331	0	20	6	0	0	4	0
Richburg	17,404	14,015	123,066	819	651	7	20	239
Scio	1,089	0	3,000	51	17	0	0	0
Unknown	0	0	0	0	0	0	1	0
Upper Devonian	27	5,069	0	0	0	27	2	0
Upper Devonian Shale	0	0	0	0	0	0	1	0
Waugh & Porter	368	1,045	165	17	30	3	1	0
County Total	46,432	481,619	194,441	1,368	788	61	52	278
Cattaraugus County								
Akron	0	0	0	0	0	1	0	0
Bradford	72,362	2,663	433,889	933	210	73	36	198
Bradford & Chipmunk	0	0	0	0	3	0	0	0
Bradford Third	72	0	0	2	78	0	0	31
Chipmunk	45,061	21,184	42,959	554	91	24	0	45
Medina	724	900,512	229	5	0	369	33	0
Onondaga	9,191	162,411	26	1	0	12	2	0
Onondaga-Bass Island	0	763	0	0	0	1	0	0
Oriskany	0	117,306	0	0	0	6	1	0
Upper Devonian	371	1	35	22	2	0	0	0
Whirlpool	0	81,857	35	0	0	3	0	0
County Total	127,781	1,286,697	477,173	1,517	384	489	72	274
Cayuga County								
Black River	0	6,293	0	0	0	1	0	0
Onondaga	0	0	0	0	0	0	1	0
Oriskany	0	0	0	0	0	1	0	0
Queenston	0	1,281,753	26,579	0	0	293	8	1
Trenton	0	1	0	0	0	1	0	0

OIL AND GAS PRODUCTION BY FORMATION IN EACH COUNTY, 1997

FORMATION	OIL (BBLS)	GAS (MCF)	WATER (BBLS)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Cayuga County (Cont.)								
County Total	0	1,288,047	26,579	0	0	296	9	1
Chautauqua County								
Akron	0	0	0	0	0	0	1	0
Bass Island	20,944	115,962	16,837	33	6	26	14	0
Devonian Shale	0	3,484	0	0	0	1	0	0
Glade	26,821	22,457	0	255	32	7	0	0
Medina	361	7,489,025	61,405	97	8	2,884	277	0
Onondaga	8,373	34,849	6,205	10	0	12	3	0
Perrysburg	0	0	0	0	1	0	0	0
Syracuse	0	0	0	0	1	0	0	0
Theresa	0	2,186	0	0	0	1	0	0
Uncompleted	0	0	0	0	0	0	4	0
Upper Devonian	0	93	0	0	0	5	0	0
Whirlpool	0	27,926	0	0	0	2	0	0
County Total	56,499	7,695,982	84,447	395	48	2,938	299	0
Chemung County								
Marcellus	0	0	0	0	0	1	0	0
Oriskany	0	200	0	0	0	3	2	0
County Total	0	200	0	0	0	4	2	0
Erie County								
Akron	0	40,534	2	0	0	26	0	0
Medina	0	1,442,733	5,863	0	0	787	150	0
Onondaga	60	71,766	28	1	0	10	6	0
Oriskany	0	0	0	0	0	0	1	0
County Total	60	1,555,033	5,893	1	0	823	157	0
Genesee County								
Medina	0	957,778	7,337	0	0	489	16	0
Onondaga	0	0	0	0	0	0	2	0
County Total	0	957,778	7,337	0	0	489	18	0

OIL AND GAS PRODUCTION BY FORMATION IN EACH COUNTY, 1997

FORMATION	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Livingston County								
Hamilton	0	0	0	0	0	3	0	0
Marcellus	0	50	0	0	0	3	0	0
Medina	0	148,731	1,036	0	0	140	12	0
County Total	0	148,781	1,036	0	0	146	12	0
Madison County								
Herkimer	0	928	0	0	0	2	1	0
Herkimer-Oneida	0	27,702	0	0	0	3	0	0
Oneida	0	2,269	0	0	0	1	0	0
County Total	0	30,899	0	0	0	6	1	0
Monroe County								
Medina	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	0	1	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	1	0
County Total	0	0	0	0	0	1	1	0
Onondaga County								
Queenston	0	0	0	0	0	1	1	0
Trenton	0	0	0	0	0	0	1	0
County Total	0	0	0	0	0	1	2	0
Ontario County								
Medina	0	75,235	0	0	0	18	2	0
Queenston	0	983	0	0	0	2	2	0
County Total	0	76,218	0	0	0	20	4	0

OIL AND GAS PRODUCTION BY FORMATION IN EACH COUNTY, 1997

FORMATION	OIL (BBLS)	GAS (MCF)	WATER (BBLs)	ACTIVE	INACTIVE	ACTIVE	INACTIVE	WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Oswego County								
Trenton	0	101	0	0	0	8	6	0
County Total	0	101	0	0	0	8	6	0
Schuyler County								
Unknown	0	0	0	0	0	0	2	0
County Total	0	0	0	0	0	0	2	0
Seneca County								
Niagara	0	0	0	0	0	0	1	0
Queenston	0	697,632	13,353	0	0	138	1	0
Rochester Shale	0	4,461	0	0	0	1	0	0
Sodus Shale	0	13,938	0	0	0	1	0	0
County Total	0	716,031	13,353	0	0	140	2	0
Steuben County								
Black River	0	148,848	0	0	0	5	3	0
Fulmer Valley	37,776	46,182	26,871	172	4	1	1	1
Marcellus	0	3,032	0	0	0	2	0	0
Onondaga	0	81,397	3	0	0	5	1	0
Oriskany	0	17,198	98	0	0	7	7	0
Penny	0	1,200	0	0	0	1	0	0
Penny & Fulmer Valley	166	0	10	3	0	0	0	0
Potsdam	0	0	0	0	0	0	1	0
Rhinestreet	0	0	0	0	0	0	1	0
Tully	0	0	0	0	0	2	0	0
Unknown	0	0	0	0	0	0	7	0
Upper Devonian	0	135	0	0	0	1	0	0
County Total	37,942	297,992	26,982	175	4	24	21	1
Tioga County								
Helderberg	0	1,252,920	351	0	0	11	3	0
Marcellus	0	73	0	0	0	1	0	0
County Total	0	1,252,993	351	0	0	12	3	0
Wayne County								

OIL AND GAS PRODUCTION BY FORMATION IN EACH COUNTY, 1997

FORMATION	OIL (BBLs)	GAS (MCF)	WATER (BBLs)	ACTIVE		INACTIVE		WATER INJECTION WELLS
				OIL WELLS	OIL WELLS	GAS WELLS	GAS WELLS	
Trenton	0	1,800	0	0	0	2	0	0
County Total	0	1,800	0	0	0	2	0	0
Wyoming County								
Akron	0	10,820	0	0	0	2	0	0
Devonian Shale	0	2,500	0	0	0	1	0	0
Medina	0	371,963	4,611	0	0	246	32	0
Theresa	0	9,601	20	0	0	10	0	0
Upper Devonian	0	200	0	0	0	1	0	0
Whirlpool	0	0	0	0	0	0	1	0
County Total	0	395,084	4,631	0	0	260	33	0
Yates County								
Medina-Queenston	0	885	0	0	0	1	2	0
Queenston	0	5,649	0	0	0	9	5	0
County Total	0	6,534	0	0	0	10	7	0
STATE TOTAL	268,714	16,193,289	842,223	3,456	1,224	5,731	704	554

Table 14. Oil and Gas Production by Formation in Each County, 1997.

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

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