

Department of Environmental Conservation

Division of Mineral Resources

New York State Oil, Gas and Mineral Resources 1996

Annual Report

New York State Department of Environmental Conservation
George E. Pataki, Governor John P. Cahill, Commissioner

This report was produced by the
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New York State Oil, Gas and Mineral Resources

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.

STATE OF NEW YORK
GEORGE E. PATAKI, GOVERNOR

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
JOHN P. CAHILL, COMMISSIONER

DIRECTOR'S CORNER**Gregory H. Sovas**

The Division spent much time in 1996 preparing for the future. At press time, the future is upon us as we get ready for a series of public workshops to be held in October 1997 on proposed revisions to the Oil, Gas and Solution Mining Regulations. These regulations have not been significantly revised since 1972, and modernization is necessary to more effectively ensure environmental protection while supporting extraction of the State's non-renewable resources. We look forward to productive workshops that will help us make the new regulations comprehensive, flexible and fair.

Our mission statement reflects that future generations are a beneficiary of our Division's programs. Our successes today lay the groundwork for the future. Among those successes in 1996 and early 1997 were favorable decisions in four important court cases where well owners were not only held responsible to properly maintain, report, and ultimately plug their wells, but were also assessed significant penalties for having failed to do so. These cases set a valuable precedent—we have already seen one owner who was facing an enforcement action avoid monetary penalties by voluntarily plugging leaking wells on his abandoned lease.

We tallied another success in May 1997 when the State Supreme Court upheld the permit we issued in March 1996 for a new underground salt mine in Livingston County. This permit is a model for future environmental regulation of underground mining. Significant Division staff time was required during 1996 to assist the Attorney General's office with defending the permit. More good news from the Mined Land Reclamation program, including well-deserved national recognition for Joseph Moskiewicz, the Region 7 Specialist, is presented on page 16.

As the Governor's representative to the Interstate Oil and Gas Compact Commission, I continue to meet regularly with the other Appalachian Basin Directors. We have formed a task force to explore ways of promoting the use of indigenous gas supplies for Compressed Natural Gas Vehicles. We also share ideas and technology regarding information management and the use of global positioning systems (GPS). Read on pages 11 and 12 about how our field inspectors are using GPS to survey abandoned wells in western New York.

Our Regional Minerals Managers report on

pages 10 through 12 that our field inspectors were busy during 1996. In November 1996, an underground blowout occurred during the drilling of a gas well in Cattaraugus County and diverted our entire Region 9 staff from its routine work schedule. Twelve families were evacuated and local officials worried about gas contaminating the municipal water supply. Division staff worked day and night with emergency response personnel and the operator to remediate the situation and to keep the public and press informed. Fortunately, the operator successfully killed and completed the well with no injuries and no adverse impacts to local water supplies.

One of the busy Region 9 employees who played an instrumental role in the November incident was John Hoffman. On May 7, 1997, the Division celebrated one of its proudest moments when Mr. Hoffman received the Department's highest and most prestigious employee honor, the Ernest F. Trad Award. Commissioner John P. Cahill and Mr. Hoffman's supervisors and co-workers commended his talent, dedication and professionalism. We're fortunate to have John represent us; he embodies the standards that all of us in the Division try to uphold.

One success story yet to be written concerns resolution of the brine disposal issue at the proposed Avoca and Bath gas storage caverns. Read about these and other underground natural gas and liquefied petroleum gas storage projects on pages 13 and 14. Field work associated with the Avoca and Bath projects is described in the Region 8 Review on page 10, along with a number of other interesting oil and gas projects in that active region.

Please call on the Division whenever you need information or assistance related to our programs. We also invite you to visit the Department's new and growing web site at <http://www.dec.state.ny.us>; let us know what Mineral Resources content you'd like to see!

Along with Commissioner Cahill and the newly appointed Deputy Commissioner for Natural Resources, Peter S. Duncan, we look forward to a future of successes for New York's environment and its oil, gas and minerals industries.

EXECUTIVE SUMMARY

New York State Oil, Gas and Mineral Resources - 1996 is the thirteenth 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 76 percent of the registered operators, or 685 of 895, had filed required Annual Well Reports.

Oil and Gas Highlights

- ⇒ Reported production of natural gas declined approximately 2 percent to 18.3 BCF compared with 1995's reported production of 18.7 BCF.
- ⇒ Production of oil was 308,529 barrels, an increase of 1.6 percent from 1995 and the second consecutive year of increased oil production.
- ⇒ Average wellhead prices paid in 1996 were \$2.21 per thousand cubic feet of gas and \$18.29 per barrel of oil.
- ⇒ New York operators spudded 147 wells during 1996, an increase of 35 wells from 1995.
- ⇒ Reported oil and gas production generated an estimated \$1.38 million in real property tax revenues.
- ⇒ Total State revenues from permits and leasing of State lands were \$281,122 in 1996.
- ⇒ Oil and Gas staff performed 2,236 inspections and traveled 89,548 miles during 1996.
- ⇒ The Division collected \$3,000 in assessed fines and penalties under the Oil, Gas and Solution Mining Law.
- ⇒ Gas well completions remained the same from 1995, 31 wells completed while oil well completions increased from 20 oil wells completed in 1995 to 66 oil wells completed in 1996.
- ⇒ Market value of reported oil and gas was an estimated \$46.2 million. Land owners received approximately \$5.77 million in royalties.
- ⇒ Tioga County ranked second in gas production in the state with only 12 gas wells.

Mineral Highlights

- ⇒ In 1996 the Division regulated 2,527 surface mines encompassing 44,075 acres.
- ⇒ Mined Land staff issued 316 permits, 110 new and 206 renewals during 1996.
- ⇒ Estimated value of the minerals mined in New York State during 1996 was \$1 billion.
- ⇒ Mined Land staff in 1996 approved the reclamation of 1,106 acres of affected land.



Steuben County, New York, Town of Avoca: Avoca Natural Gas Storage's, Mitchell Well No. 3, drilled by Triad. It was spudded on April 23, 1996, and reached a total depth of 11,415 feet. Drilling was completed on this well on July 31, 1996. This well is part of a program to develop a new underground natural gas storage facility which will have the capacity to store approximately five billion cubic feet of natural gas.

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

(Regions 6,7,8)
Tonawanda-Lima Rd.
14414
4466

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

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

◆ Olean Office (Region 9)
■ Mined Land Reclamation Offices

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PERMITS & COMPLETIONS**Eric B. Shyer****PERMITTING**

Division staff issued 155 drilling permits in 1996: 45 gas well permits, 82 oil well permits, 1 stratigraphic well permit, 13 brine well permits, 2 reissued well permits, 8 gas storage, and 4 brine disposal well permits. Permits were issued in ten counties: Steuben County had the most with 65 permits (50 oil, 7 storage, 4 gas and 4 disposal); Chautauqua County followed with 37 permits (28 gas, 8 oil and 1 voided permit); Cattaraugus County had 16 oil well, 4 gas well permits and 2 repemitted wells; Wyoming County had 10 brine wells and 1 gas well permitted; Allegany had 10 permits (8 oil and 2 gas well permits); Genesee had 3 gas well permits; Schuyler County had 3 brine wells permitted followed by Erie County with 1 gas well and 1 storage well permitted; Livingston had 1 stratigraphic well permitted and Seneca County had 1 gas well permitted.

COMPLETIONS

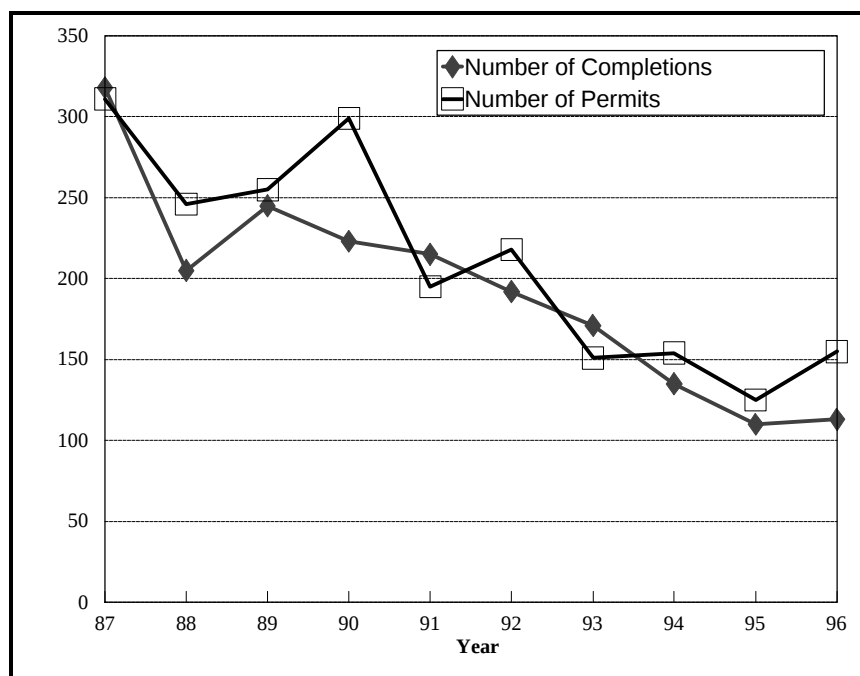
There were 113 oil, gas, brine, storage and disposal wells completed in eight New York counties during 1996. For a complete listing of the wells completed please refer to the statistical tables in the appendices.

Oil

Sixty-six oil wells were completed during 1996, an increase of 46 wells from 1995. Steuben County had the most oil completions with 49 in the Beech Hill - Independence Field. Cattaraugus County had 10 oil completions, 7 in the Bradford Field and one each in the Ashford, Chipmunk and Dutch Hill Fields. Chautauqua County had four oil completions, three in the Busti Field and one in the Harmony Field. Allegany County had 3 oil completions in the Richburg Field.

Gas

Thirty-one gas wells were completed during 1996; the same number as in 1995. Chautauqua County had the most completions with 21 in the Lakeshore Field. Cattaraugus County followed with 3 in the Lakeshore Field. Allegany County had two completions, one in the Gordon Brook Field and the other a completed wildcat. Erie County also had two gas completions, one in the Concord-Onondaga Field and the other a wildcat completion. Genesee County had one completion in the Alden-Lancaster Field. Steuben county had one completed gas wildcat and Seneca County had one gas completion in the Fayette-Waterloo Field.



Drilling permits issued vs completions in New York State, 1987 - 1996.

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

As of June 17, 1997, approximately 76 percent, or 685 out of 895, of the registered New York oil and gas operators had filed their 1996 Annual Well Reports. Due to operators not filing their Annual Well Reports, the Division does not have the current status or production of approximately 500 wells. Unreported wells and production adversely affect local property tax evaluations.

The Division is actively re-notifying those operators of their legal responsibility to file their annual well reports.

New York's production of oil increased to 308,529 barrels, a rise of 1.6 percent from 1995. The map on page 5 shows oil production in New York State by town. Allegany and Cattaraugus Counties, which contain the State's historic oil fields, produced 38,647 and 148,646 barrels of oil (bblo) respectively. This represents a fifteen percent decrease for Allegany County and a decrease of 6 percent for Cattaraugus County from 1995 production. Chautauqua County produced 82,209 bblo, a decrease of five percent over 1995's production. Erie County oil production decreased thirty-four 208 barrels while Steuben County's production increased 105 percent to 38,819 barrels. The oil production figures are based on the oil buyers' reports.

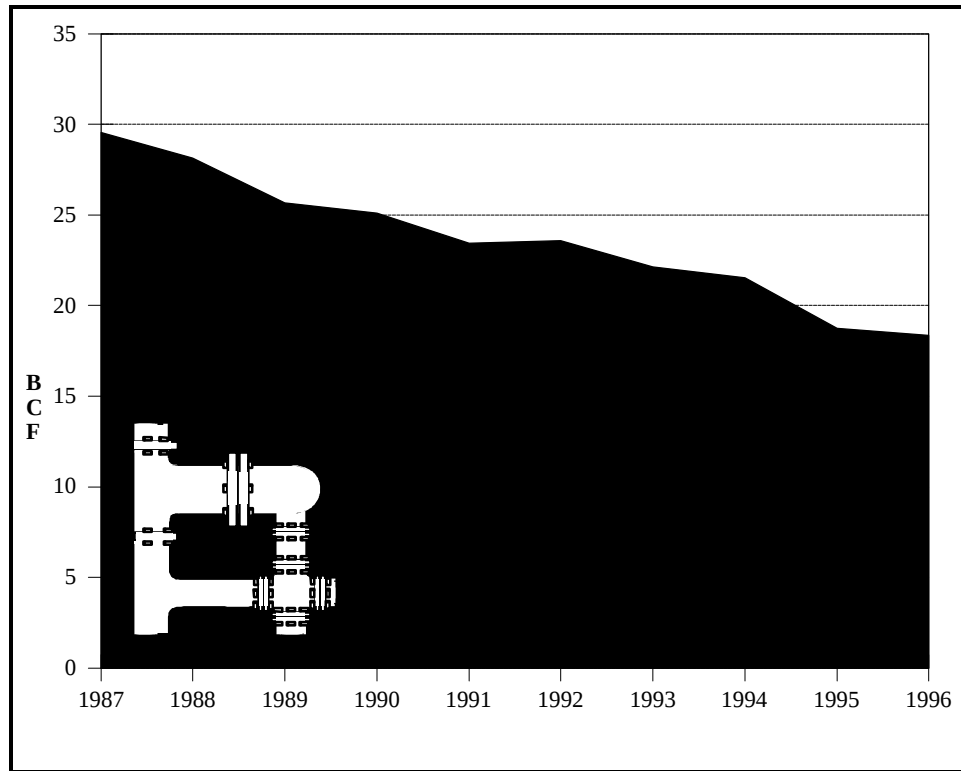
New York's 1996 preliminary gas production was 18.3 billion cubic feet (BCF) and is mapped by town on page 4. Initial estimates of the remaining unfilled production reports should place total 1996 gas production at about 19 BCF. Tioga County placed second in total gas production with an average per-well production of 200,002 MCF. This is noteworthy as Tioga County only has **twelve** active gas wells.

Top Ten Gas Producing Counties, 1996

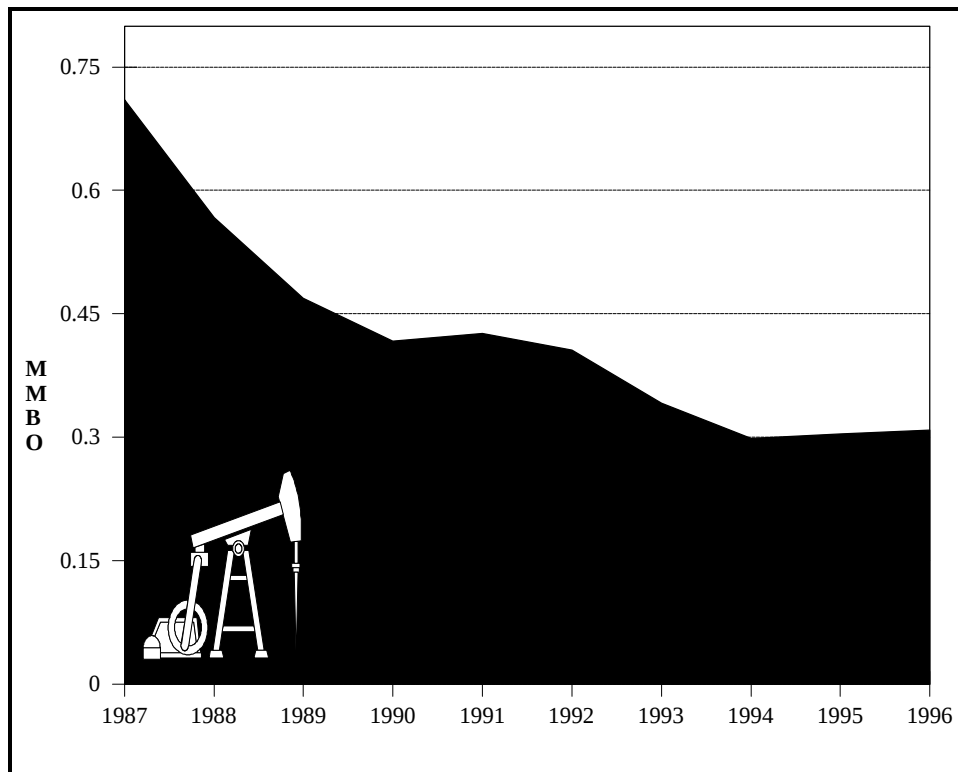
County	Gas MCF	No. of Active Wells	Average MCF/Well
Chautauqua	8,424,250	3,084	2,732
Tioga	2,400,022	12	200,002
Erie	1,664,722	765	2,176
Cattaraugus	1,338,493	428	3,127
Cayuga	1,333,266	291	4,582
Seneca	1,125,527	220	5,116
Genesee	1,013,205	492	2,059
Wyoming	353,870	217	1,631
Allegany	224,587	56	4,010
Steuben	218,385	18	12,133

Top Ten Oil & Gas Producing Companies, 1996

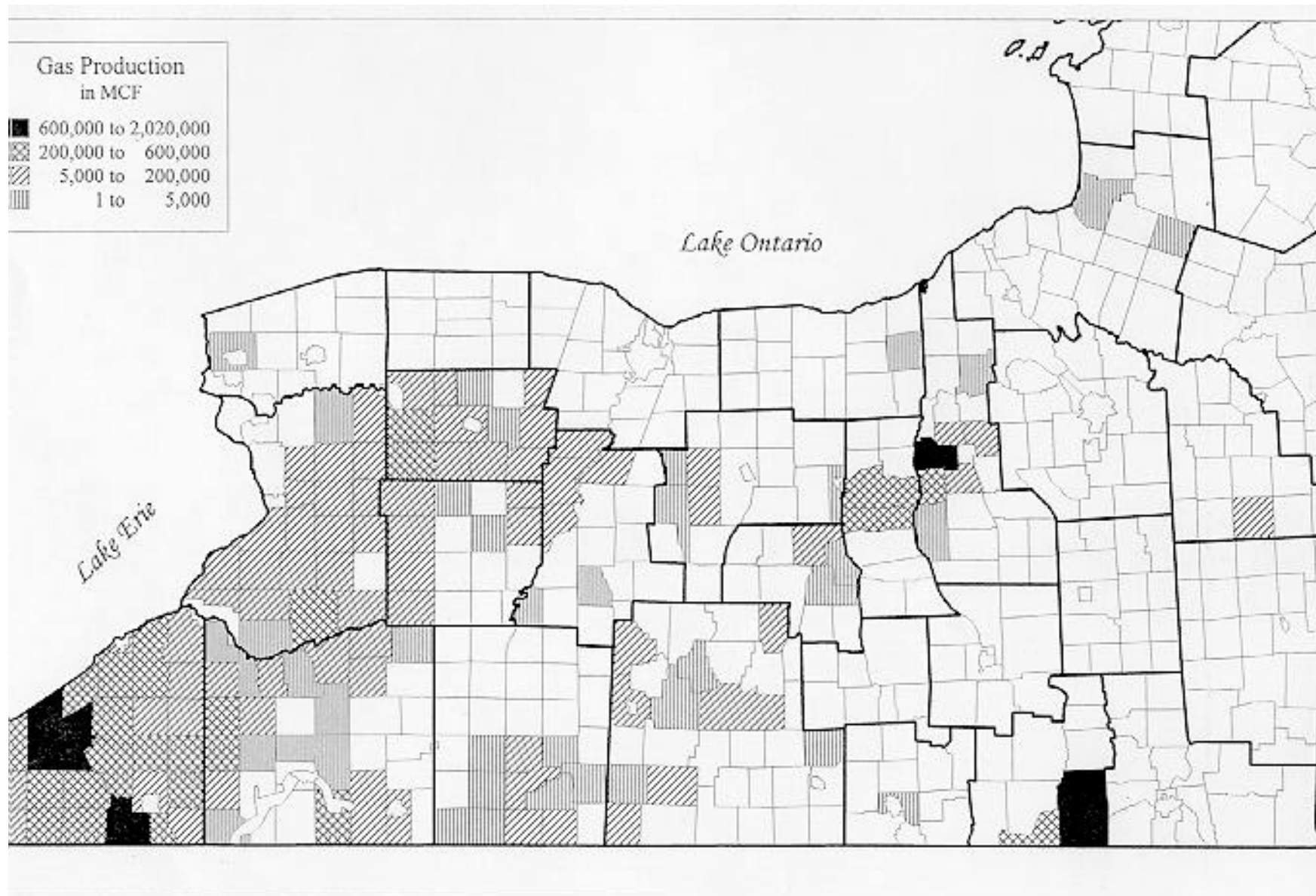
Oil		Gas	
Company	Production (BBLS)	Company	Production (MCF)
East Resources, Inc.	49,797	Belden & Blake Corporation	4,810,958
Richardson Petroleum Corp.	41,152	Meridian Exploration Corp.	2,092,204
Pefley Oil & Gas Inc.	28,673	Lomak Operating Company	1,408,302
Pennsylvania General Energy	18,248	Seneca Resources Corp.	987,556
R & C Oil Co.	13,926	United States Gypsum Co.	829,277
Chautauqua Energy Inc.	10,535	Nornew, Inc	738,872
Oil, Gas & Land Services, Inc.	8,059	Lenape Resources Inc.	586,514
Woods Oil Company, Inc.	7,340	Cabot Oil & Gas Corp.	547,924
Hemlock Oil & Gas Co., Inc.	7,111	Oil, Gas & Land Services, Inc.	373,537
Belden & Blake Corporation	6,955	Ivan Hall & Associates, Inc.	361,297



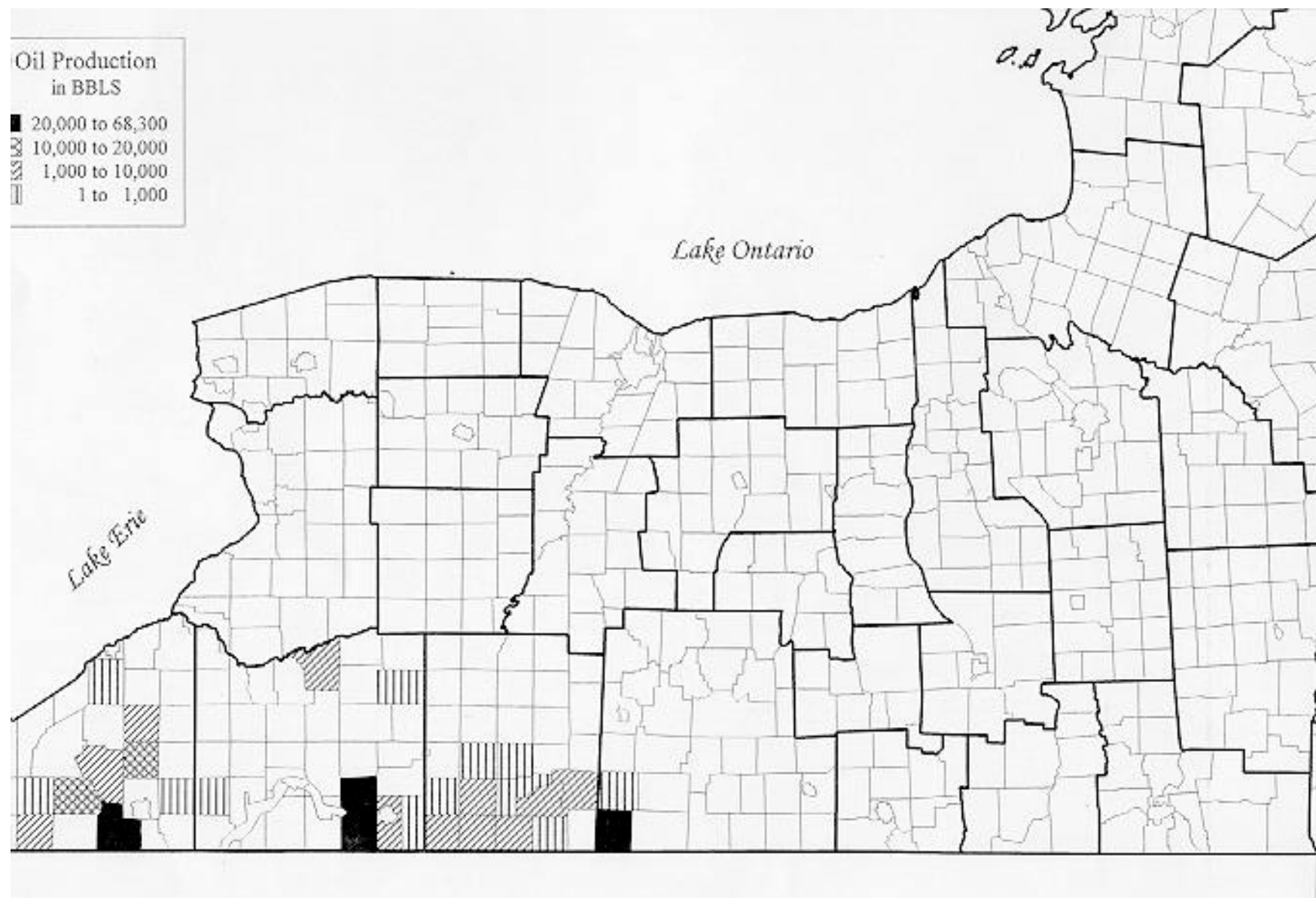
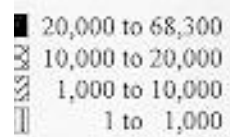
Annual production of natural gas in New York State, 1987 - 1996.



Annual production of crude oil in New York State, 1987 - 1996.



Oil Production
in BBLs



MARKET VALUE**Eric B. Shyer**

The market value of New York State's reported oil and gas production for 1996 was estimated at \$46.2 million. Average wellhead prices for oil and gas were obtained from royalty payments on leases from state lands. The Office of Real Property Services no longer calculates these figures.

Wellhead oil prices for 1996 averaged \$18.29 per barrel, an increase of \$2.00 per barrel from 1995's average price. Market value of the State's 1996 reported production of 308,529 barrels was approximately \$5.6 million.

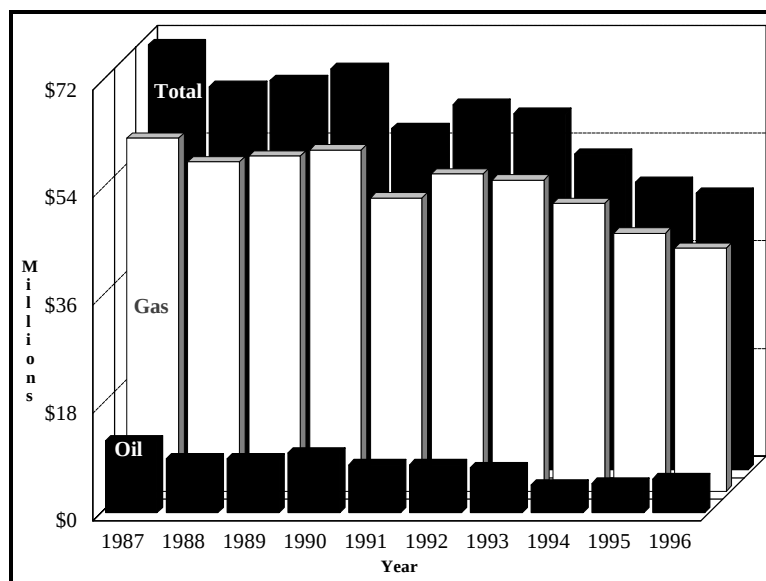
The average price for natural gas at the wellhead was \$2.21 per MCF, a decrease of \$0.09

per MCF. The market value of the reported produced gas was approximately \$40.6 million.

Average wellhead prices for oil and gas have fluctuated over the last ten years. In 1987 oil was \$17.47 a barrel, it then decreased to \$15.50 a barrel, increased to \$17.70 a barrel and then increased to its 10 year high of \$23 a barrel in 1990. The average price of gas at the wellhead in 1987 was \$2.00 an MCF. The price remained constant through 1988 until 1989 when it slowly started to increase. Gas prices reached another plateau in 1993, at \$2.40 an MCF and then decreased for the next three years.

**Average Wellhead Price
of
Oil & Gas, 1987 - 1996**

Year	Oil \$/Bbl	Gas \$/Mcf
1987	\$17.47	\$2.00
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



Market value of New York oil and gas production, 1987 - 1996.

RESOURCE DEVELOPMENT REVENUES**Charles R. Gilchrist**

The Division of Mineral Resources collects revenues from oil and gas activity under the Oil, Gas and Solution Mining Law. In 1996 total oil and gas revenues were \$284,122; permits and fees were \$137,530; leasing revenues from state lands were \$143,592; fines and penalties were \$3,000.

State Land Leasing and Revenues

At year end 1996, the Division managed 59 leases covering 30,886 acres of state land. Production royalties generated from 17,605 acres of this land totaled \$92,817. The remaining 13,281 acres yielded \$50,775 from delay rentals, bonus money and storage fees.

Total revenues from the onshore leasing program in 1996 were \$143,592; an increase of 13 percent from the \$127,148 earned in 1995. This increase is due to additional acreage being leased.

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 gas development only; 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

County Leasing Statistics

Types of State Owned Acreage Under Lease *				Acreage Available
County	Storage	Delay	Royalty	
Allegany	0	0	126	45,741
Broome	0	0	0	10,063
Cattaraugus	9,410	0	155	30,654
Cayuga	0	0	62	8,387
Chautauqua	0	0	16,987	2,039
Chemung	0	0	0	1,217
Chenango	0	0	0	71,721
Cortland	0	0	0	28,761
Erie	573	0	228	578
Livingston	0	0	0	3,511
Madison	0	0	0	23,700
Oneida	0	0	0	39,200
Onondaga	0	0	0	2,176
Oswego	0	0	0	20,694
Ontario	55	0	0	746
Schuyler	1	0	0	14,501
Seneca	0	0	17	0
Steuben	1,620	3,158	0	24,300
Tioga	0	0	0	7,905
Tompkins	0	0	0	21,380
Wyoming	0	0	0	2,570
Totals	11,659	3,158	17,575	359,844

* Acreage figures are accurate as of June 1, 1997.

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, in order to be valid, must have the approval of the agency with jurisdiction over the land in question.

Onshore state lands encompassing approximately 360,000 acres in central and western New York are available for competitive leasing on a request basis. Approximately half of the current state leases are in Chautauqua County, many of them in production status for 20 years or more. New wells continue to be drilled on these leases. Over 2,000 acres of state land are still available for leasing in Chautauqua County. Other active oil and gas producing counties are Allegany and Steuben which respectively have 45,741 and 21,380 acres of state land available for leasing. Much of this acreage has been leased in the past but was never explored; virtually all of it has the potential for gas development.

Located in south central New York is the prolific Stagecoach Field recently developed

in Tioga County. The state manages thousands of acres of land in Tioga and the surrounding counties which have yet to be tested for gas. Most of this acreage may be available through the competitive leasing program.

Obtaining Leasing Information

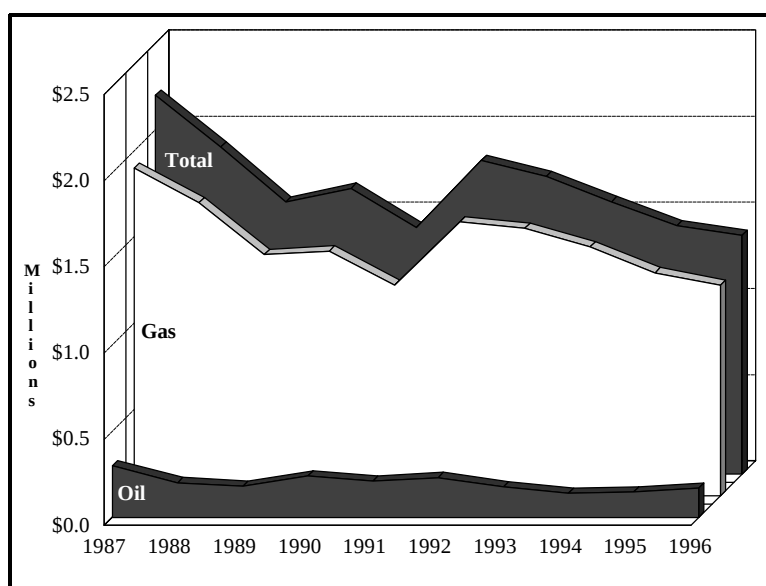
Information on county maps showing the location of acreage within a county and printouts of available acreage can be obtained by contacting the Division's leasing staff in Albany.

Property Tax Revenues

Estimated real property tax revenues attributable to reported 1996 oil and gas production were approximately \$1.38 million. Taxes from natural gas and oil production were calculated to be \$1.21 million and \$169,289 respectively.

Leasing Royalties

Statewide, all landowners who had producing oil and gas leases during 1996 received approximately one-eighth of the market value of \$46.2 million, or approximately \$5.77 million in royalties.



Oil and gas property tax revenues, 1987 - 1996.

SOLUTION SALT MINING & BRINE DISPOSAL**Peter S. Briggs & Kathy Sanford****Solution Salt Mining**

Five solution mining facilities in New York produced 2.14 billion gallons of saturated brine, or about 2.4 million metric tons of salt, in 1996. Operators of these facilities injected 2.19 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 1996 represent an increase of two percent compared to 1995's figure of 2.1 billion gallons. The value of New York's 1996 solution salt mining production is estimated at \$100 million.

The 125 unplugged wells reported for 1996

their wells in accordance with industry standards and state and federal regulations.

Akzo Nobel, 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 1996, 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

Status of Solution Salt Mining in New York, 1996

Operator	County	Town	Plugged Wells	Unplugged Wells	Year Started
Akzo Nobel	Schuyler	Reading	53	18	1893
Cargill	Schuyler	Dix	12	12	1898
Morton	Wyoming	Castile & Gainesville	23	16	1884
Texas Brine	Wyoming	Middlebury (Dale field)	76	43	1970
Texas Brine	Wyoming	Middlebury (Wyoming Village field)	9	36	1984
Total			173	125	

include injection wells, withdrawal wells and wells equipped for both injection and withdrawal. 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 enhancing cavern stability include hydrofracturing, horizontal drilling, and roof padding. Current operators plug

statistics compiled by the U.S. Geological Survey, New York typically ranks third among the states in total annual salt production.

BRINE DISPOSAL**Disposal Wells**

In 1996, New York State had twelve 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 1996 injection volume was 122,574 barrels, 89 percent of which was produced and reinjected at two underground gas storage facilities.

REGION 8 REVIEW**Randy Nemecek - Region 8 Minerals Manager**

One of Region 8's most active years this decade was 1996 with nearly 70 wells drilled. Well drilling activity included wildcat, gas development, old oil and storage.

Underground storage of natural gas continued to draw significant attention in 1996. As mentioned in last year's report, Avoca Gas Storage, Inc. (AGSI) undertook the most ambitious project. AGSI conducted full-scale drilling and construction operations of their proposed facility in Steuben County. At the peak of construction activities, over 200 people were employed either directly or indirectly. As many as five drilling rigs were active, including two "triples." AGSI also constructed the leach plant and associated pipelines needed for solutioning and brine disposal operations. Most of the freshwater intake structure and pipelines were also constructed during this phase. Unfortunately, brine disposition has become a major issue at the Avoca facility as the disposal wells drilled for the project did not meet injection volume expectations. AGSI is currently exploring alternatives to supplement and/or replace their current brine disposal operations.

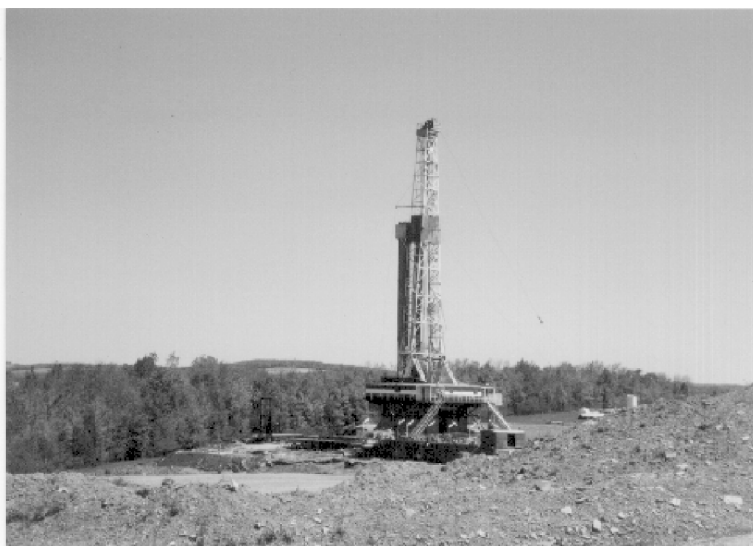
The Department also received a permit application from Consolidated Natural Gas Transmission Corp. to convert the existing LPG facility owned by Bath Petroleum Storage Inc. to natural gas. This proposal, located in Steuben County, would also be sup

plemented with an expansion of LPG storage to compensate for the conversion of existing caverns. Primary issues for this project include brine disposal and cavern suitability and integrity.

The New York State Electric and Gas Corp. underground gas storage facility in Schuyler County completed construction operations and is currently storing natural gas. This facility utilizes abandoned solutioned salt mining caverns for underground gas storage.

Wildcat activity was the most active in Northern Steuben County. Columbia Natural Resources, Inc. (CNR), drilled four wells in 1996. Completion information for these wells remains confidential.

Oil field development increased dramatically during 1996, as Richardson Petroleum, Inc. drilled nearly 50 wells in the Town of West Union, Steuben County. Although gas development activity was low, a horizontal project was drilled in late 1996, by Meridian Exploration, Corp. (Meridian) in the Town of Fayette, Seneca County. Under a grant from the New York State Energy Research and Development Authority (NYSERDA), Meridian drilled with a perpendicular trajectory in hopes of increasing the likelihood of encountering economic production from vertical fractures of the reservoir.



Avoca Natural Gas Storage's Well No. 6, being drilled by Nabor's Rig No. 188. The rig has a 28 foot sub-structure and ranks as one of the largest drilling rigs to operate in New York State. Well No. 6 reached a true vertical depth of 11,030 feet.

FIELD INSPECTION PROGRAMS

Jack Dahl - Region 9 Minerals Manager

Oil, gas, and solution mining well inspections have been an integral part of the minerals field program. This year, 1996 - 1997, two specific post-site programs were undertaken to inspect brine tanks and locate old wells.

Brine Tank Inspections

The focus of the brine tank post-site project was on wells which were in producing status for ten years or more. Previous enforcement inspections had discovered a number of faulty tanks for wells in this age group. Some had holes you could literally walk through. Mineral Resources staff identified all wells which were ten or more years old and in production using the minerals database. The wells were then sorted by county and posted on topomaps. Staff were assigned an area to inspect and began the project in late June.



A brine tank in Chautauqua County in need of repair.

The summer months results were quite disturbing. Minerals inspectors were able to access remote well locations and initially found approximately 40% of the total number of brine tanks to be leaking or have holes in the sides. The regulations require brine to be stored in watertight tanks or containers. Our inspections found that this was not the case for these wells. We discovered that the probability of finding a bad tank increased with its distance from a road. Another fact came to light, bad tanks were common to both large and small operators alike. The field inspections continued into the fall and winter months until its completion in March of 1997.

Letters were sent and in some cases phone calls made to the operators which had leaking or faulty tanks. The letters required the operators to drain the brine from the faulty tank, and then repair or replace all of them. They were informed that the tank must not be used to store brine until it was watertight. Operators were also required to inspect

all of their brine storage tanks and to report the result of their inspections to the Department. This was necessary due to the fact that only a very small number of any given operator's wells were inspected by our staff. The reports were to also include the proposed work program the operators planned to undertake to repair or replace the faulty tanks.

The brine tank inspection program visited 511 sites. Leaking tanks and tanks with holes were found by Minerals inspectors at 125 locations (approximately 24 percent). Additional faulty tanks were discovered by operators during their inspections. One such operator reported 47 out of their total of 59 tanks would be replaced. Verification of tank replacement will be accomplished during 1997 for brine tank inspection of wells which are 5-10 years in production status.

The results of this brine tank inspection project have been very good. Operators have cooperated and have committed to work programs which will repair or replace all of the leaking and faulty tanks. The environment in Region 9 is healthier today than it was a year ago due to the abatement of brine discharges at these locations.

GPS Location of Old Wells

The second post-site project utilized a Global Positioning System (GPS) to locate old wells for which the State had little or no information. It is reported in historical literature that more than 50,000 wells were drilled in New York by the 1940's. Many more tens of thousands of wells have been drilled since then yet the State only has records on approximately 34,000 wells. The GPS system is capable of locating wells in the field to an accuracy of less than one meter.



Old well being located by GPS off of West Branch Road in the Town of Allegany, Cattaraugus County.

The 1996 - 1997 GPS project located 96

wells. Minerals used borrowed equipment from Air Resources when it became available in the late fall. The lack of a summer GPS field season hindered our ability to locate a large number of wells. Once a good location is established the old well is spotted on the topographic maps, rated for environmen-

tal harm and is added to our list of unplugged wells. It has been a very useful tool which will again be used during the 1997 - 1998 field season.

Minerals is using its tools and staff to improve the environment in western New York.



A brine holding tank in the Town of Gerry, Chautauqua County.



Locating an old well in the town of Allegany, Cattaraugus County.

UNDERGROUND GAS STORAGE & LIQUEFIED PETROLEUM GAS Clemsford Pollydore**Underground Gas Storage**

At year end 1996, there were 171.1 billion cubic feet (BCF) of natural gas in storage, of which 72.4 BCF were working gas. New York's underground natural gas storage fields (see map on page 15) can deliver approximately 1.41 BCF/day with a potential working gas capacity of 91.9 BCF.

New York State Electric and Gas Corporation (NYSEG) commenced injection of natural gas and withdrawal of brine at its newly permitted Seneca Lake storage facility located in the Town of Reading, Schuyler County, New York. In August

will have a working gas capacity of approximately 1.69 BCF.

Avoca Natural Gas Storage (Avoca) has reportedly suspended its underground natural gas storage project for economic reasons. This project is located in the Town of Avoca, Steuben County, New York. In March 1995, Avoca was granted a permit for the underground storage of approximately 6.72 BCF of natural gas in six caverns to be constructed by solutioning salt from bedded strata at a depth of about 3,900 feet. The future of this project

1996 Underground Gas Storage

Storage Operator	Storage Field	Inj/ Wdr Wells	Mon/ Obs Wells	Total Wells	Total Storage Capacity (MMCF)	Gas To Storage (MMCF)	Gas From Storage (MMCF)	Designed Max. Del. (MCF/DAY)
CNG Transmission Corp.	Woodhull	50	1	51	35,904	21,757	15,631	357,000
Columbia Gas Trans Corp.	Dundee	115	19	134	11,000	4,148	3,196	80,000
Columbia Gas Trans Corp.	Gilbert	1	0	1	230	0	0	0
Columbia Gas Trans Corp.	Greenwood	4	3	7	3,600	198	150	3,000
Columbia Gas Trans Corp.	N.Greenwood	2	0	2	3,200	501	303	4,000
Honeoye Storage Corp.	Honeoye	27	12	39	8,714	3,878	3,981	40,000
National Fuel Gas Supply	Beech Hill	32	9	41	23,000	2,952	3,460	66,000
National Fuel Gas Supply	Bennington	63	1	64	5,000	2,869	2,542	75,300
National Fuel Gas Supply	Colden	159	7	166	16,220	8,569	8,811	110,000
National Fuel Gas Supply	Collins	45	2	47	5,880	2,204	1,709	50,000
National Fuel Gas Supply	Derby	12	2	14	250	129	137	5,000
National Fuel Gas Supply	East Independence	7	4	11	6,400	2,134	2,052	14,700
National Fuel Gas Supply	Holland	24	1	25	2,600	895	780	25,000
National Fuel Gas Supply	Lawtons	29	2	31	2,470	1,054	935	21,000
National Fuel Gas Supply	Limestone	10	4	14	19,800	1,023	751	37,000
National Fuel Gas Supply	Nashville	70	1	71	8,530	3,184	1,850	110,000
National Fuel Gas Supply	Perrysburg	39	1	40	3,850	1,392	1,211	35,000
National Fuel Gas Supply	Sheridan	25	1	26	3,700	951	485	25,000
National Fuel Gas Supply	Tuscarora	7	1	8	6,300	3,575	3,491	57,000
National Fuel Gas Supply	West Independence	23	8	31	11,800	4,734	4,211	48,700
National Fuel Gas Supply	Zoar	30	1	31	2,200	2,619	2,026	40,000
NYS Electric & Gas	Seneca Lake	3	0	3	2,340	656	0	145,000
Steuben Gas Storage Co.	Adrian Reef	10	1	11	8,200	5,170	4,682	60,000
Totals		787	81	868	191,188	74,592	62,394	1,408,700

1995, NYSEG was granted a permit for the underground storage of approximately 2.34 BCF of natural gas in an existing brine-filled underground salt cavity located at a depth of about 2,000 feet below the surface. By year end 1996, approximately 0.66 BCF of gas were injected into the storage cavern and 1.23 billion barrels of brine withdrawn. When fully operational, this facility

remains uncertain.

CNG Transmission Corporation (CNG) has filed an application with the Department for the underground storage of natural gas in a number of Bath Petroleum Storage, Inc.'s (BPSI) existing and proposed liquefied petroleum gas storage caverns located in the Town of Bath, Steuben County, New

York. Meanwhile, CNG has filed an application with the Federal Energy Regulatory Commission for a Certificate of Public Convenience and Necessity for this project. The Department has several technical and environmental concerns on the feasibility of this project and these must be adequately addressed before this project can move forward.

Liquefied Petroleum Gas Storage

The three liquefied petroleum gas (LPG) facilities in New York State have a total storage

capacity of 119.7 million gallons. At year end 1996, there were 55.9 million gallons of LPG in storage occupying 47 percent of total capacity.

During the year, in conjunction with the CNG application described earlier, BPSI applied to the Department for a permit to increase BPSI's current LPG storage capacity. BPSI proposes to add four additional wells and associated caverns to its current suite. This application is currently under review.

1996 Liquefied Petroleum Gas Facilities Summary

Operator	County	# Wells	Capacity (Mgals)	Balance (Mgals)
Bath Petroleum Storage	Steuben	11	46,408	15,351
Texas Eastern Product Pipeline	Schuyler	1	53,294	31,826
Western Energy and Storage	Cortland	3	20,000	8,749
Totals		15	119,702	55,926

Underground Gas Storage
and Solution Salt Fields

AN REEF-GAS
 NOBEL SALT, INC.-LPG
 NOBEL SALT, INC.-SSM
 B-LPG
 RINGTON-GAS
 HILL-SSM
 DEN-GAS
 INS-GAS
 S-SSM
 Y-GAS
 INDEPENDENCE-GAS
 ERT-GAS
 INWOOD-GAS
 FORD MILLS-LPG
 LAND-GAS
 FOYE-GAS
 IONS-GAS
 ISTONE-GAS
 ION SALT-SSM
 IVILLE-GAS
 TH GREENWOOD-GAS
 YSBURG-GAS
 IDAN-GAS
 H BEECH HILL-GAS
 S EASTERN-LPG
 Y-SSM
 ARORA-GAS
 IDEPIN BEECH HILL-GAS
 NE-DUNDEE-GAS
 DIHULL-GAS
 MING VILLAGE-SSM
 R-GAS

Underground Gas Storage, LPG & Brine Fields



MINED LAND RECLAMATION

Steven Potter

Mining continued to play an important role in the economy of New York State in 1996. It is estimated that more than 4,000 workers were employed directly or indirectly in the extractive mineral industry in New York State. New York State continues to rank among the top 20 states in the nation in the value of non-fuel minerals produced. The value of the non-fuel minerals produced is estimated at slightly over \$1 billion. The State accounted for three percent of the U.S. total. More than 90 percent of the State's non-fuel mineral value was derived from industrial minerals and mineral products, primarily construction sand and gravel, crushed stone, salt, portland cement, and wollastonite.

Most of New York's metal production was from lead and zinc. In estimated mineral production for 1996, New York remained the largest producer of wollastonite in the United States, second of two garnet producing states, third in salt and zinc, fourth in talc and pyrophyllite, and sixth in lead.

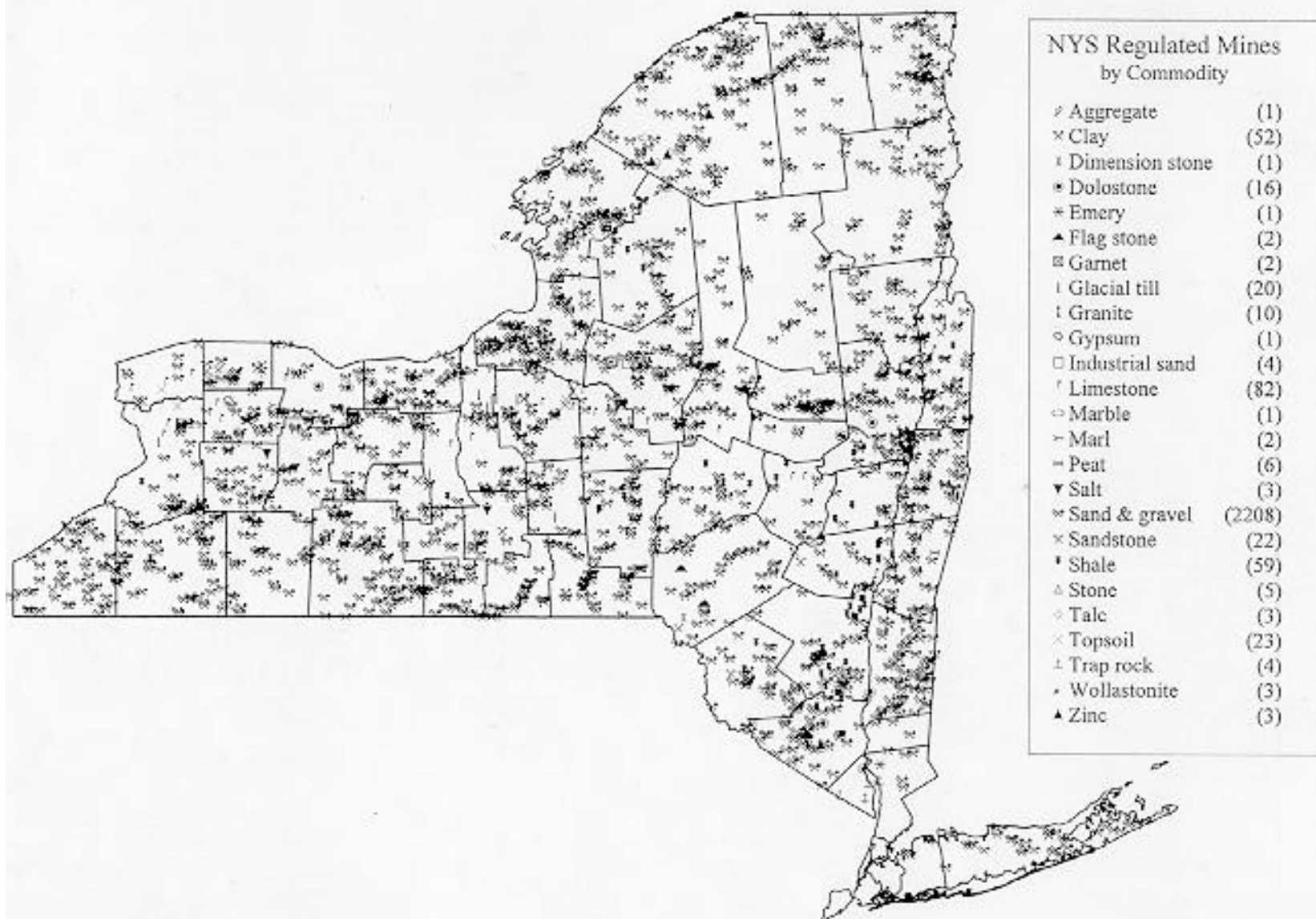
Mined Land staff issued a total of 316 permits during 1996; of that total, 110 were new and 206 were renewals. Additionally, 86 mine sites received final reclamation approval. Two thousand five hundred twenty seven (2,527) mines, 1,828 industry-owned and 699 government owned, were active in the state at the end of 1996. The number of acres currently disturbed by mining at the end of 1996 was 44,075 acres. A total of 14,518 acres have been reclaimed since 1974, 1,1,06 in 1996.

One of the major mining related stories of 1996 was the introduction by Governor George E. Pataki of major amendments to the State's Mined Land Reclamation Law. The proposed legislation dealt with the establishment of explicit authority

for the DEC to regulate underground mining operations and specified guidelines for the operation of existing and new mines. DEC had asserted authority over underground operations but the Governor's legislation clarified and enhanced that authority. The proposed legislation never made it out of committee and it remains to be seen if it will be introduced again during the 1997 legislative session.

A major highlight of 1996 was the announcement that Joseph Moskiewicz, Mined Land Reclamation Specialist in DEC's Region 7 office in Syracuse, New York, was selected by the National Association of State Land Reclamationist (NASLR) as the 1996 " State Reclamationist of the Year ." The prestigious award recognized Mr. Moskiewicz as the outstanding reclamationist in the nation for his efficiency and effectiveness in implementing a mining and reclamation program in the Syracuse area. Moskiewicz had the highest percentage of reclaimed mined land of any DEC region during 1996. His responsibilities include oversight of approximately 650 mines and reclamation projects in a nine county area. Moskiewicz was chosen by a select awards committee, which selected him from among ten other nominees from across the nation.

This is the third national mining award presented to an individual or company in New York State in the last two years. T.H. Kinsella of Syracuse, New York, a sand and gravel producer, was awarded the Interstate Mining Compact Commissions (IMCC) national award for outstanding reclamation in 1995. In March of 1996, students from Marcellus High School in Syracuse, New York with assistance from W.F. Saunders and Sons and Spectra Environmental of Albany won the " Operation Green Eyes " completion from the U.S. Environmental Protection Agency for a plan to reclaim an existing rock quarry into a nature preserve.



E-MAIL ADDRESSES

To facilitate faster responses to questions on programs the Division of Mineral Resources administers, we have included e-mail addresses for you to contact.

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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, 1997.

DIVISION OF MINERAL RESOURCES
OIL AND GAS STATISTICS *
(1987 - 1996)

								Rev.	Rev.	Prelim.
ANNUAL PRODUCTION	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
OIL (1000 BBLS)	710	567	496	417	426	406	341	299	304	309
GAS (MMCF)	29,549	28,125	25,673	25,112	23,438	23,582	22,145	21,537	18,799	18362
WELL STATISTICS										
OIL	4,228	4,368	4,043	3,906	3,619	3,761	3,783	3,670	3,208	3360
GAS	5,351	5,328	5,411	5,536	5,757	5,866	5,986	6,017	6,216	5769
INACTIVE OIL	1,582	1,478	1,775	1,752	1,362	939	1,137	1,326	1,108	1194
INACTIVE GAS	961	870	845	955	707	563	505	561	665	534
STORAGE	845	854	854	854	869	865	865	876	866	868
ACTIVE BRINE	60	65	64	63	64	52	80	83	70	64
INACTIVE BRINE	36	36	27	28	29	16	140	80	52	61 !
WATER INJECTION	1,376	1,382	1,196	1,274	875	835	859	923	783	668
P&A (DURING YEAR)	417	322	260	961	376	244	263	234	191	181
NUMBER OF WELLS	14,856	14,703	14,475	15,329	13,658	13,141	13,618	13,770	13,159	12,699
DRILLING AND COMPLETIONS										
1. TOTAL WELLS SPUDDED	217	211	217	221	213	205	134	134	112	147
2. TOTAL WILDCATS	11	10	5	12	10	5	5	2	3	3
3. DISCOVERIES	4	4	0	6	5	1	2	1	3	3
Oil Wildcat	1	0	0	0	0	0	0	0	0	0
Gas Wildcat	3	4	2	6	5	1	2	1	3	3
4. TOTAL DRY HOLES	17	18	12	16	17	17	19	7	2	4
5. OIL										
Development	19	15	28	43	51	71	26	34	20	66
Extension	0	0	0	0	0	0	0	0	0	0
6. GAS										
Development	222	150	157	132	124	73	97	51	28	27
Extension	17	10	22	10	4	1	1	1	0	1
7. INJECTION	1	0	14	1	0	0	2	0	14	0
8. DISPOSAL	1	0	0	0	0	0	0	0	0	2
9. STRATIGRAPHIC	0	1	2	3	0	0	2	41	20	0
10. SERVICE	0	1	0	0	1	1	4	0	2	0
11. BRINE	25	6	8	12	1	15	14	8	14	2
12. STORAGE	12	0	0	0	12	13	4	0	7	8
13. TOTAL COMPLETIONS (3,4,5,6,7,8,9,10,11,12)	318	205	245	223	215	192	171	143	110	113
15. TOTAL FOOTAGE (1000 FEET)	819	559	611	549	622	464	454	296	215	275
PROVEN RESERVES AT YEAR END										
GAS A. IN SITU	268,829	268,743	270,074	266,410	265,320	252,988	245,843	232,867	219,084	205,522
(MMCF) B. IN STORAGE										
RESERVOIRS	140,363	144,819	131,785	141,900	150,694	150,800	153,400	154,200	159,500	171,100
C. TOTAL	409,192	413,562	401,859	408,310	416,014	403,788	399,243	387,067	378,584	376,622
OIL (1000 BBLS)	10,425	2,000	2,441	2,001	2,100	2,962	2,900	2,800	2,850	2,900

! 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, 1997.

Wildcats, Field Extensions & Stratigraphic Tests, New York State, 1996
Wildcats

Well Name	API #	Operator	County	Formation	TD	Result
Fairman #1	31 - 003 - 22606	Vandermark Exploration Inc.	Allegany	Oriskany	3368	Discovery
Schofield S.P. 127 #1	31 - 013 - 22596	Schreiner Oil & Gas Inc.	Chautauqua		5935	Dry & Abandoned
Crowe #3	31 - 013 - 22616	New York Gas & Oil Drilling Co.	Chautauqua		6174	CRNR*
Dzara Unit #1	31 - 029 - 22603	U S Energy Development Corp.	Erie	Akron	3140	Discovery
Erwin Game Mgmt. 1	31 - 101 - 21591	Vandermark Exploration Inc.	Steuben	Oriskany	3768	Discovery
Gerritz 1	31 - 101 - 21687	Smail, James R.	Steuben		3700	Dry & Abandoned
Stahl #1	31 - 121 - 22655	Belden & Blake Corporation	Wyoming		6021	CRNR

Field Extensions

Well Name	API #	Operator	County	Formation	TD	Field
Carr #4	31 - 029 - 22617	U S Energy Development Corp.	Erie	Onondaga	2159	Concord-Onondaga

Stratigraphic Tests

Well Name	API #	Operator	County	Formation	TD
<i>No stratigraphic tests were completed during 1996</i>					

*Completion Report Not Received

Permits Issued During 1996

County	Town	Owner	API Number	Well Name	TD	Spud Well Date Type	Formation
Allegany	Alma	Day, James W	003 - 22632	Lot #53 #K-16	1,342	11/19/96 OD	Richburg
Allegany	Alma	Day, James W	003 - 22633	Lot #53 #K-15	1,336	11/6/96 OD	Richburg
Allegany	Alma	Day, James W	003 - 22634	Lot #53 #K-13	1,374	10/24/96 OD	Richburg
Allegany	Amity	Vandermark Exploration Inc.	003 - 22605	Windus #2	3,875	1/29/96 GD	Oriskany
Allegany	Andover	Otis Eastern Service Inc.	003 - 22665	Lot 47 #2A	0	12/18/96 CN	
Allegany	Andover	Otis Eastern Service Inc.	003 - 22667	Lynch, C #2A	0	12/31/96 CN	
Allegany	Genesee	Smith, Ronald L.	003 - 22589	Bliss #27	0	12/27/96 CN	
Allegany	Independence	Potter Oil Company	003 - 22631	Potter #14	0	11/5/96 CN	
Allegany	New Hudson	Vandermark Exploration Inc.	003 - 22606	Fairman #1	3,368	2/19/96 GW	Oriskany
Allegany	Wellsville	Otis Eastern Service Inc.	003 - 22666	Lot 103 #1A	0	12/5/96 CN	
Cattaraugus	Allegany	Bdh Oil Inc.	009 - 65070	Nichols Run Fo-10	0	10/18/96 CN	Brad. & Chip.*
Cattaraugus	Allegany	Bdh Oil Inc.	009 - 65072	Nichols Run Fo-12	1,563	5/28/96 OD	Brad. & Chip.*
Cattaraugus	Ashford	A. J. Lease Account	009 - 22604	Houri, D #1	2,973	2/22/96 OD	Onondaga
Cattaraugus	Carrollton	Altimus & Associates	009 - 22668	Saterlee #1A	0	11/26/96 CN	
Cattaraugus	Carrollton	Newman, Edgar F	009 - 22620	Brennan #11	1,404	7/10/96 OD	Chipmunk
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22658	Evans #W4	1,402	12/16/96 OD	Brad. & Chip.*
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22659	Bucher #W2	1,595	11/11/96 OD	Brad. & Chip.*
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22660	Bucher #W4	1,533	11/5/96 OD	Brad. & Chip.*
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22661	Bucher #W5	1,511	10/29/96 OD	Brad. & Chip.*
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22662	Bucher #W9	1,396	12/4/96 OD	Brad. & Chip.*
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22641	Woods #3	1,100	7/30/96 OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22642	Woods #4	1,102	7/31/96 OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22643	Woods #5	1,101	8/1/96 OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22644	Woods #6	1,198	7/26/96 OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22645	Woods #7	1,194	7/27/96 OD	Bradford
Cattaraugus	Dayton	Pefley Oil & Gas Inc.	009 - 22626	Countryside Sand&Gravel 2	0	7/9/96 CN	
Cattaraugus	Freedom	A. J. Lease Account	009 - 22657	K.C. Powell Et. Al. #1	0	10/31/96 CN	
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22612	Gardner #1	3,870	5/17/96 GD	Whirlpool
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22649	Gardner #2	3,829	8/7/96 GD	Whirlpool
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22653	Moffitt #1	3,873	8/18/96 GD	Medina
Cattaraugus	Persia	Texas Keystone, Inc.	009 - 22500	Plateau Recreation #2	0	**/**/**** RI	
Cattaraugus	Persia	Texas Keystone, Inc.	009 - 22663	Plateau Rec Area #3	0	**/**/**** RI	
Cattaraugus	Persia	Texas Keystone, Inc.	009 - 22672	Eaton #4	0	**/**/**** CN	
Chautauqua	Busti	Nornew, Inc	013 - 22640	Brunner #1	4,385	7/18/96 GD	Medina
Chautauqua	Busti	Nornew, Inc	013 - 22646	Peterson #1	4,598	7/27/96 GD	Medina
Chautauqua	Busti	Nornew, Inc	013 - 22647	Cardone #1	4,545	8/8/96 GD	Medina
Chautauqua	Busti	Nornew, Inc	013 - 22652	Kidder #3	4,482	8/19/96 GD	Medina
Chautauqua	Busti	Nornew, Inc	013 - 22654	Smith #1	4,535	8/27/96 GD	Medina
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22509	Drayer #5G	0	10/3/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22619	Drayer #1G	0	4/25/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22625	Nelson, M #5G	0	6/6/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22627	Gage #1G	0	7/16/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22628	Drayer #3G	0	9/24/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22629	Drayer 2G	0	7/3/96 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22669	Drayer 4G	0	2/11/97 CN	
Chautauqua	Busti	Pefley Oil & Gas Inc.	013 - 22670	Dahlgren 3G	0	12/30/96 CN	
Chautauqua	Chautauqua	Belden & Blake Corporation	013 - 22639	Burnett #2	3,424	8/12/96 GD	Medina
Chautauqua	Chautauqua	Stedman Energy Inc.	013 - 22636	Farnham #2	3,520	8/1/96 GD	Medina
Chautauqua	Chautauqua	Stedman Energy Inc.	013 - 22637	Farnham #1	3,338	7/22/96 GD	Medina
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22521	Brautigan F. #3	4,242	2/16/96 OD	Onondaga
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22609	Lyon, R #1	4,346	2/9/96 GD	Medina
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22613	Brown, L #5	4,368	2/24/96 GD	Medina
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22615	Lyon L #2	4,393	3/5/96 GD	Medina
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22650	Brown, L #6	4,388	9/13/96 GD	Medina
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22651	Roberts, A #3	4,315	9/7/96 GD	Medina
Chautauqua	Ellery	New York Gas & Oil Drilling Co	013 - 22611	Kolb #1	0	**/**/**** EX	

Permits Issued During 1996

County	Town	Owner	API Number	Well Name	TD	Spud Date	Well Type	Formation
Chautauqua	Gerry	Belden & Blake Corporation	013 - 22656	Nelson #1	3,703	9/25/96	GD	Medina
Chautauqua	Kiantone	Nornew, Inc.	013 - 22385	Bengtson #1	4,782	2/2/96	GD	Medina
Chautauqua	Kiantone	Nornew, Inc.	013 - 22607	Bauer #1	4,735	2/10/96	GD	Medina
Chautauqua	Kiantone	Nornew, Inc.	013 - 22608	Fredrick #1	4,690	2/20/96	GD	Medina
Chautauqua	Kiantone	Nornew, Inc.	013 - 22635	Spontaneo #2	4,647	8/1/96	GD	Medina
Chautauqua	Kiantone	Nornew, Inc.	013 - 22648	Giltinan #1	4,583	9/7/96	GD	Medina
Chautauqua	Pomfret	New York Gas & Oil Drilling Co	013 - 22616	Crowe #3	6,174	3/11/96	GW	
Chautauqua	Sherman	Ardent Resources, Inc.	013 - 22204	Cady #2	0	1/14/97	CN	
Chautauqua	Sherman	Ardent Resources, Inc.	013 - 22671	Burkholder Unit #3	0	12/13/96	CN	
Chautauqua	Sherman	Ardent Resources, Inc.	013 - 22673	Wiggers Unit #1	0	1/26/97	CN	
Chautauqua	Sherman	Cabot Oil & Gas Corp.	013 - 22614	Roberts A #2	0	**/**/****	EX	
Chautauqua	Stockton	Belden & Blake Corporation	013 - 22630	Bissell/Babcock #2	0	**/**/****	TR	
Chautauqua	Stockton	Belden & Blake Corporation	013 - 22638	Eckert #2	0	8/26/96	CN	
Erie	Concord	U S Energy Development Corp.	029 - 22617	Carr #4	2,159	6/18/96	GE	Onondaga
Erie	Holland	National Fuel Gas Supply Corp.	029 - 22664	Belling 1 #7389	2,536	1/21/97	DH	
Genesee	Darien	New York Gas & Oil Drilling Co	037 - 21629	Knauber 3	0	**/**/****	EX	
Genesee	Darien	New York Gas & Oil Drilling Co	037 - 21634	Knauber 4	0	**/**/****	EX	
Genesee	Pembroke	Subsea Oil & Gas Inc.	037 - 21621	Kutter 1	1,056	7/31/96	GD	Medina
Livingston	Groveland	Akzo Nobel Salt Inc.	051 - 21635	Well 9601	0	**/**/****	EX	
Schuyler	Dix	Cargill Inc.	097 - 21630	Fee 22	2,687	3/1/96	BR	Salina
Schuyler	Dix	Cargill Inc.	097 - 21631	Fee 23	2,650	3/20/96	BR	Salina
Schuyler	Dix	Cargill Inc.	097 - 21632	Fee 24	2,615	4/10/96	BR	Salina
Seneca	Fayette	Meridian Exploration Corp.	099 - 21690	Freir 1235-1	0	12/13/96	GDM	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21622	Fee 1A	4,046	2/22/96	ST	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21623	Fee 1B	4,000	3/26/96	ST	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21624	Avoca 4	9,224	3/16/96	DSL	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21625	Fee #2A	3,940	3/2/96	ST	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21626	Fee 2B	3,730	3/31/96	ST	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21627	Fee 3A	4,158	4/22/96	ST	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21628	Fee 3B	0	7/22/96	TA	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21633	Mitchell 3	11,415	4/23/96	DSL	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21636	Fee 6	11,030	3/22/96	DSL	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21685	Avoca 5	0	**/**/****	EX	
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21686	Avoca 4A	0	7/19/96	TA	
Steuben	Bath	Smail, James R.	101 - 21687	Gerritz 1	3,700	10/29/96	DW	
Steuben	Prattsburg	Columbia Natural Resources	101 - 21688	Levandowski 623088	7,313	9/23/96	CN	Black River
Steuben	Prattsburg	Columbia Natural Resources	101 - 21689	Covert 622302	7,136	10/15/96	CN	Black River
Steuben	Pulteney	Columbia Natural Resources	101 - 21692	Pizura 623143	7,091	11/20/96	CN	Black River
Steuben	West Union	Richardson Petroleum Corp.	101 - 21637	Edwards 11	1,254	4/15/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21638	Edwards 12	1,271	4/16/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21639	Edwards 13	1,286	4/17/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21640	Edwards 14	1,298	4/20/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21641	Edwards 15	1,317	4/22/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21642	Edwards 16	1,340	4/24/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21643	Edwards 21	1,313	4/29/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21644	Edwards 25	1,303	5/1/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21645	Edwards 26	1,258	5/8/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21646	Edwards 29	1,305	5/2/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21647	Edwards 1	1,261	6/22/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21648	Edwards 2	1,282	6/24/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21649	Edwards 3	1,298	6/21/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21650	Edwards 4	1,909	6/25/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21651	Edwards 5	1,308	6/16/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21652	Edwards 6	1,313	6/12/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21653	Edwards 7	1,293	6/7/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21654	Edwards 8	1,242	6/4/96	OD	Fulmer Valley

Permits Issued During 1996

County	Town	Owner	API		TD	Spud Well		Formation
			Number	Well Name		Date	Type	
Steuben	West Union	Richardson Petroleum Corp.	101 - 21655	Edwards 17	1,335	5/21/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21656	Edwards 18	1,286	5/28/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21657	Edwards 45	1,234	7/17/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21658	Edwards 44	1,270	7/20/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21659	Edwards 40	1,254	7/9/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21660	Edwards 39	1,283	7/24/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21661	Edwards 35	1,299	7/8/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21662	Edwards 34	1,297	7/2/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21663	Edwards 30	1,303	5/17/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21664	Edwards 9	1,196	10/28/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21665	Edwards 10	1,156	10/24/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21666	Edwards 19	1,245	10/31/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21667	Edwards 20	1,196	11/2/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21668	Edwards 22	1,246	11/8/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21669	Edwards 23	1,217	10/8/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21670	Edwards 24	1,153	11/4/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21671	Edwards 27	1,182	9/16/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21672	Edwards 28	1,136	10/5/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21673	Edwards 31	1,278	9/14/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21674	Edwards 32	1,256	9/18/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21675	Edwards 33	1,192	9/26/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21676	Edwards 36	1,282	8/2/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21677	Edwards 37	1,294	8/9/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21678	Edwards 38	1,223	9/7/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21679	Edwards 42	1,823	9/10/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21680	Edwards 43	1,148	9/4/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21681	Edwards 46	1,197	8/21/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21682	Edwards 47	1,145	8/24/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21683	Edwards 48	1,064	9/3/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21684	Edwards 41	1,242	8/5/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 21691	Edwards 50	1,222	11/14/96	OD	Fulmer Valley
Steuben	West Union	Richardson Petroleum Corp.	101 - 61565	Edwards 33A	343	9/20/96	DH	
Wyoming	Arcade	Belden & Blake Corporation	121 - 22655	Stahl #1	6,021	9/25/96	GW	
Wyoming	Middlebury	Texas Brine Corp.	121 - 07278	Texas Brine #18	4,980	7/18/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22365	Hooker 109	1,439	8/12/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22366	Hooker 110	1,392	8/5/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22558	Texas Brine #69	1,393	6/27/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22559	Texas Brine #70	1,400	6/13/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22618	Texas Brine #29	1,580	7/9/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22621	Hooker #124	1,520	8/20/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22622	Hooker #127	1,522	9/9/96	BR	Salina
Wyoming	Middlebury	Texas Brine Corp.	121 - 22623	Hooker #126	0	9/16/96	CN	
Wyoming	Middlebury	Texas Brine Corp.	121 - 22624	Hooker #125	0	8/28/96	CN	

* Bradford & Chipmunk Formations.

Wells Completed During 1996

County	Town	Owner	API		Completion Well			
			Number	Well Name	TD	Date	Type	Field
Allegany	Amity	Vandermark Exploration Inc.	003 - 22605	Windus #2	3,875	2/10/96	GD	Gordon Brook
Allegany	New Hudson	Vandermark Exploration Inc.	003 - 22606	Fairman #1	3,368	3/1/96	GW	Unnamed
Allegany	Alma	Day, James W	003 - 22634	Lot #53 #K-13	1,374	11/30/96	OD	Richburg
Allegany	Alma	Day, James W	003 - 22632	Lot #53 #K-16	1,342	11/30/96	OD	Richburg
Allegany	Alma	Day, James W	003 - 22633	Lot #53 #K-15	1,336	11/30/96	OD	Richburg
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22653	Moffit #1	3,873	11/20/96	GD	Lakeshore
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22649	Gardner #2	3,829	11/4/96	GD	Lakeshore
Cattaraugus	Leon	Wilkes Energy, Inc.	009 - 22612	Gardner #1	3,870	5/30/96	GD	Lakeshore
Cattaraugus	Ashford	A. J. Lease Account	009 - 22593	Nagel Unit #1	3,938	5/15/96	OD	Ashford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22642	Woods #4	1,102	8/23/96	OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22641	Woods #3	1,100	8/20/96	OD	Bradford
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22659	Bucher #W2	1,595	12/12/96	OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22645	Woods #7	1,194	8/17/96	OD	Bradford
Cattaraugus	Carrollton	Pennsylvania General Energy	009 - 22660	Bucher #W4	1,533	12/12/96	OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22644	Woods #6	1,198	8/15/96	OD	Bradford
Cattaraugus	Carrollton	Woods Oil Company, Inc.	009 - 22643	Woods #5	1,101	8/23/96	OD	Bradford
Cattaraugus	Carrollton	Newman, Edgar F	009 - 22620	Brennan #11	1,404	8/13/96	OD	Chippmunk
Cattaraugus	Ashford	A. J. Lease Account	009 - 22604	Houri, D #1	2,973	5/16/96	OD	Dutch Hill
Chautauqua	Westfield	Schreiner Oil & Gas Inc.	013 - 22596	Schofield S.P. 127 #1	5,935	1/2/96	DW	
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22615	Lyon L #2	4,393	3/19/96	GD	Lakeshore
Chautauqua	Kiantone	Nornew, Inc	013 - 22385	Bengtson #1	4,782	2/23/96	GD	Lakeshore
Chautauqua	Kiantone	Nornew, Inc	013 - 22607	Bauer #1	4,735	2/29/96	GD	Lakeshore
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22609	Lyon, R #1	4,346	3/1/96	GD	Lakeshore
Chautauqua	Busti	Nornew, Inc	013 - 22646	Peterson #1	4,598	10/23/96	GD	Lakeshore
Chautauqua	Chautauqua	Stedman Energy Inc.	013 - 22637	Farnham #1	3,338	8/16/96	GD	Lakeshore
Chautauqua	Gerry	Belden & Blake Corporation	013 - 22656	Nelson #1	3,703	10/14/96	GD	Lakeshore
Chautauqua	Busti	Nornew, Inc	013 - 22640	Brunner #1	4,385	8/9/96	GD	Lakeshore
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22650	Brown, L #6	4,388	10/6/96	GD	Lakeshore
Chautauqua	Busti	Nornew, Inc	013 - 22654	Smith #1	4,535	10/3/96	GD	Lakeshore
Chautauqua	Ellicott	Nornew, Inc	013 - 22567	Mt Olivet Cemetery #1	4,188	2/9/96	GD	Lakeshore
Chautauqua	Kiantone	Nornew, Inc	013 - 22648	Giltinan #1	4,583	9/28/96	GD	Lakeshore
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22613	Brown, L #5	4,368	7/28/96	GD	Lakeshore
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22651	Roberts, A #3	4,315	9/21/96	GD	Lakeshore
Chautauqua	Busti	Nornew, Inc	013 - 22652	Kidder #3	4,482	9/12/96	GD	Lakeshore
Chautauqua	Busti	Nornew, Inc	013 - 22647	Cardone #1	4,545	9/6/96	GD	Lakeshore
Chautauqua	Chautauqua	Belden & Blake Corporation	013 - 22639	Burnett #2	3,424	9/6/96	GD	Lakeshore
Chautauqua	Gerry	Oil, Gas & Land Services, Inc.	013 - 22583	Picard #1	3,766	8/29/96	GD	Lakeshore
Chautauqua	Kiantone	Nornew, Inc	013 - 22635	Spontaneo #2	4,647	8/23/96	GD	Lakeshore
Chautauqua	Kiantone	Nornew, Inc	013 - 22608	Fredrick #1	4,690	3/7/96	GD	Lakeshore
Chautauqua	Chautauqua	Stedman Energy Inc.	013 - 22636	Farnham #2	3,520	8/23/96	GD	Lakeshore
Chautauqua	Busti	Curtis & Son Oil, Inc.	013 - 22573	Anderson #13	770	5/7/96	OD	Busti
Chautauqua	Busti	Libra Petroleum Co.	013 - 22599	Crandall, L #35	690	10/21/96	OD	Busti
Chautauqua	Busti	Libra Petroleum Co.	013 - 22598	Crandall, L #33	690	10/8/96	OD	Busti
Chautauqua	Clymer	Cabot Oil & Gas Corp.	013 - 22521	Brautigan F. #3	4,242	3/17/96	OD	Harmony
Erie	Concord	U S Energy Development Corp.	029 - 22617	Carr #4	2,159	7/3/96	GE	Concord-Onondaga
Erie	Concord	U S Energy Development Corp.	029 - 22603	Dzara Unit #1	3,140	6/24/96	GW	Unnamed
Genesee	Pembroke	Subsea Oil & Gas Inc.	037 - 21621	Kutter 1	1,056	9/19/96	GD	Alden-Lancaster
Schuyler	Dix	Cargill Inc.	097 - 21630	Fee 22	2,687	3/22/96	BR	Cargill
Schuyler	Dix	Cargill Inc.	097 - 21632	Fee 24	2,615	5/4/96	BR	Cargill
Schuyler	Reading	New York State Electric & Gas	097 - 03892	Watkins Glen 28	2,649	4/20/96	ST	
Schuyler	Reading	New York State Electric & Gas	097 - 61202	Akzo 46	2,082	4/28/96	ST	International Salt-LPG
Seneca	Fayette	Meridian Exploration Corp.	099 - 21690	Freir 1235-1	2,813	12/27/96	GDM	Fayette-Waterloo
Steuben	Prattsburg	Columbia Natural Resources	101 - 21689	Covert 622302	7,136	10/31/96	CN	
Steuben	West Union	Richardson Petroleum Corp.	101 - 61565	Edwards 33A	343	11/15/96	DH	Beech Hill-Independence
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21468	Mitchell 1	9,887	7/9/96	DS	Avoca
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21601	Mitchell 2	11,894	7/29/96	DSL	Avoca

Wells Completed During 1996

County	Town	Owner	API		Completion Well			
			Number	Well Name	TD	Date	Type	Field
Steuben	Bath	Smail, James R.	101 - 21687	Gerritz 1	3,700	11/6/96	DW	
Steuben	Erwin	Vandermark Exploration Inc.	101 - 21591	Erwin Game Mgmt. 1	3,768	1/24/96	GW	Unnamed
Steuben	West Union	Richardson Petroleum Corp.	101 - 21650	Edwards 4	1,909	7/11/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21658	Edwards 44	1,270	8/9/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21652	Edwards 6	1,313	7/8/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21684	Edwards 41	1,242	8/21/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21676	Edwards 36	1,282	8/23/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21659	Edwards 40	1,254	8/2/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21649	Edwards 3	1,298	7/17/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21653	Edwards 7	1,293	6/24/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21654	Edwards 8	1,242	6/19/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21677	Edwards 37	1,294	8/27/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21661	Edwards 35	1,299	7/31/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21660	Edwards 39	1,283	8/29/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21681	Edwards 46	1,197	8/30/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21656	Edwards 18	1,286	6/17/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21662	Edwards 34	1,297	7/29/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21682	Edwards 47	1,145	9/11/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21651	Edwards 5	1,308	7/14/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21683	Edwards 48	1,064	9/16/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21680	Edwards 43	1,148	9/18/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21647	Edwards 1	1,261	7/26/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21678	Edwards 38	1,223	9/19/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21648	Edwards 2	1,282	7/23/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21655	Edwards 17	1,335	6/14/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21637	Edwards 11	1,254	5/10/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21679	Edwards 42	1,823	9/23/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21673	Edwards 31	1,278	9/26/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21644	Edwards 25	1,303	6/12/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21671	Edwards 27	1,182	9/30/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21674	Edwards 32	1,256	10/2/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21646	Edwards 29	1,305	6/10/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21663	Edwards 30	1,303	6/6/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21645	Edwards 26	1,258	6/3/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21641	Edwards 15	1,317	5/31/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21642	Edwards 16	1,340	5/14/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21640	Edwards 14	1,298	5/29/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21675	Edwards 33	1,192	10/28/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21672	Edwards 28	1,136	10/30/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21643	Edwards 21	1,313	5/16/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21665	Edwards 10	1,156	11/4/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21638	Edwards 12	1,271	5/22/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21669	Edwards 23	1,217	11/6/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21691	Edwards 50	1,222	11/22/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21664	Edwards 9	1,196	11/8/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21666	Edwards 19	1,245	11/11/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21667	Edwards 20	1,196	11/13/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21668	Edwards 22	1,246	11/15/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21657	Edwards 45	1,234	8/14/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21670	Edwards 24	1,153	11/20/96	OD	Beech Hill-Independence
Steuben	West Union	Richardson Petroleum Corp.	101 - 21639	Edwards 13	1,286	5/20/96	OD	Beech Hill-Independence
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21623	Fee 1B	4,000	6/17/96	ST	Avoca
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21622	Fee 1A	4,046	6/15/96	ST	Avoca
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21626	Fee 2B	3,730	7/21/96	ST	Avoca
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21627	Fee 3A	4,158	6/15/96	ST	Avoca
Steuben	Avoca	Avoca Natural Gas Storage	101 - 21625	Fee #2A	3,940	7/16/96	ST	Avoca

Wells Completed During 1996

County	Town	Owner	API Number	Well Name	Completion TD	Well Date Type	Field
Steuben	Canisteo	Steuben Gas Storage Co.	101 - 21411	Adrian Gas Well 3	4,602	1/27/96 STL	Adrian Reef

1996 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	1	0
Allen	0	0	0	0	0	0	1	0
Alma	3,143	15,544	3,282	235	103	32	5	31
Almond	0	0	0	0	0	0	1	0
Amity	187	38,067	436	4	0	2	1	0
Andover	3,764	316	82	103	33	1	0	0
Bolivar	8,373	1,615	101,200	341	389	0	2	134
Caneadea	0	0	0	0	1	0	2	0
Centerville	0	0	0	0	0	0	1	0
Clarksville	375	0	0	10	4	0	0	0
Friendship	24	634	43	1	0	1	0	0
Genesee	1,013	1,015	1,321	64	159	3	5	30
Independence	14,455	50,985	3,914	238	1	3	5	27
New Hudson	0	0	0	0	0	0	1	0
Rushford	0	0	0	1	0	1	3	0
Scio	498	23,101	5,629	107	81	4	3	18
Ward	0	210	0	0	0	3	0	0
Wellsville	2,688	50	67	54	42	2	2	9
Willing	89	92,869	0	18	25	4	2	0
Wirt	1,217	181	1,026	130	37	0	1	0
County Total	35,826	224,587	117,000	1,306	875	56	36	249
Broome County								
Triangle	0	0	0	0	1	0	0	0
County Total	0	0	0	0	1	0	0	0
Cattaraugus County								
Allegany	68,249	119,772	407,271	706	139	4	3	180
Ashford	1,233	32,141	9	1	0	19	2	0
Carrollton	62,618	69,550	7,039	609	56	29	1	28
Conewango	0	215,154	0	0	0	77	1	0
Dayton	0	68,910	0	0	0	43	1	0
East Otto	0	4,114	82	0	0	6	2	0
Ellicottville	0	4,325	0	0	0	14	2	0
Farmersville	313	0	32	3	3	0	2	0
Freedom	0	4,836	1	0	0	7	4	0
Great Valley	0	481	0	0	0	1	0	0
Independence	0	0	0	0	0	0	1	0
Leon	0	453,749	0	0	0	73	6	0
Little Valley	0	200	0	0	0	2	0	0
Machias	0	5,887	0	0	0	3	1	0
Mansfield	0	0	0	0	0	1	0	0
Napoli	0	2,935	0	0	0	3	1	0
New Albion	0	5,988	111	0	0	9	3	0
Olean	6,208	100,493	1,705	126	76	0	0	173
Otto	0	51,616	545	0	0	21	0	0
Perrysburg	0	3,667	0	0	0	8	0	0
Persia	0	3,554	0	0	0	6	1	0

1996 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)								
Portville	51	0	0	5	0	0	0	0
Randolph	704	136,876	0	0	0	83	3	0
South Valley	0	3,315	0	0	0	2	0	0
Yorkshire	0	50,930	11	0	0	17	3	0
County Total	139,376	1,338,493	416,806	1,450	274	428	37	381

Cayuga County

Auburn	0	7,778	0	0	0	1	0	1
Aurelius	0	628,106	16,645	0	0	135	1	1
Cato	0	1	0	0	0	1	0	0
Fleming	0	116,233	4,588	0	0	28	5	0
Ledyard	0	1	0	0	0	2	0	0
Owasco	0	0	0	0	0	1	1	0
Scipio	0	0	0	0	0	1	0	0
Sennett	0	5,964	0	0	0	2	1	0
Springport	0	567,183	3,520	0	0	110	6	0
Summerhill	0	0	0	0	0	1	0	0
Throop	0	8,000	0	0	0	9	0	0
County Total	0	1,333,266	24,753	0	0	291	14	2

Chautauqua County

Arkwright	0	239,190	3,336	0	0	121	7	0
Busti	37,773	617,659	3,680	411	20	115	11	0
Carroll	0	98,035	0	0	3	46	7	0
Charlotte	2,857	161,244	1,445	1	0	98	7	0
Chautauqua	0	786,405	2,458	0	0	307	15	0
Cherry Creek	0	172,315	535	0	0	119	4	0
Clymer	7,048	598,366	11,989	4	1	102	19	0
Dunkirk	0	122,635	2,388	0	0	43	6	0
Ellery	5,213	510,736	8,196	8	5	114	12	0
Ellicott	0	190,226	148	0	0	53	1	0
Ellington	0	231,308	475	0	0	178	2	0
French Creek	0	63,034	0	0	0	65	24	0
Gerry	14,383	503,561	17,729	13	4	149	10	0
Hanover	0	143,611	4,248	0	0	70	6	0
Harmony	0	328,489	7,255	0	0	104	11	0
Jamestown	0	18,583	25	0	0	3	1	0
Kiantone	0	254,222	0	0	0	36	0	0
Mina	0	120,986	1,395	0	0	66	13	0
North Harmony	11,996	417,984	18,800	12	1	135	21	0
Poland	65	284,764	97	2	0	106	2	0
Pomfret	1	362,336	3,446	1	0	170	19	0
Portland	0	317,882	964	0	0	131	6	0
Ripley	0	296,339	1,660	0	0	169	19	0
Sheridan	0	204,368	1,923	0	0	82	11	0
Sherman	587	241,175	4,288	1	0	75	5	0
Stockton	0	231,862	1,632	0	0	102	8	0
Villanova	0	185,502	1,153	0	0	75	4	0

1996 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)								
Westfield	0	721,433	3,544	0	0	250	13	0
County Total	79,923	8,424,250	102,809	453	34	3,084	264	0
Chemung County								
Elmira	0	2,107	0	0	0	1	0	0
Van Etten	0	0	0	0	0	2	0	0
County Total	0	2,107	0	0	0	3	0	0
Chenango County								
Smithville	0	0	0	0	5	0	0	0
County Total	0	0	0	0	5	0	0	0
Erie County								
Alden	0	94,767	250	0	0	51	10	0
Aurora	0	84,845	150	0	0	42	11	0
Boston	0	37,530	75	0	0	34	0	0
Brant	0	173,759	1,918	0	0	89	5	0
Buffalo	0	670	0	0	0	2	0	0
Cheektowaga	0	6,110	0	0	0	10	1	0
Clarence	0	729	4	0	0	6	1	0
Colden	0	11,303	170	0	0	11	0	0
Collins	0	2,977	0	0	0	4	0	0
Concord	0	266,485	919	0	0	58	2	0
Eden	0	116,034	704	0	0	86	4	0
Elma	0	152,900	521	0	0	51	5	0
Evans	0	155,877	1,286	0	0	71	17	18
Hamburg	0	99,222	35	0	0	42	7	0
Holland	0	0	0	0	0	1	2	0
Lackawanna	0	1,567	0	0	0	2	1	0
Lancaster	0	126,667	0	0	0	24	4	0
Marilla	0	45,431	113	0	0	29	6	0
Newstead	0	100,211	75	0	0	48	12	0
North Collins	0	60,107	265	0	0	49	6	0
Orchard Park	0	60,305	0	0	0	32	11	0
Sardinia	0	25,994	89	0	0	11	2	0
Tonawanda	0	0	0	0	0	1	2	0
Wales	0	18,721	330	0	0	6	6	0
West Seneca	0	22,511	0	0	0	5	0	0
County Total	0	1,664,722	6,904	0	0	765	115	18
Genesee County								
Alabama	0	28,320	155	0	0	27	0	0
Alexander	0	61,519	1,057	0	0	35	0	0
Batavia	0	65,184	487	0	0	43	1	0
Bergen	0	61,257	0	0	0	3	0	0

1996 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)								
Bethany	0	28,521	1,262	0	0	30	0	0
Darien	0	499,424	2,111	0	0	204	5	0
Elba	0	2,865	40	0	0	1	0	0
Le Roy	0	25,292	0	0	0	9	1	0
Oakfield	0	21,209	58	0	0	13	0	0
Pavilion	0	19,020	144	0	0	17	3	0
Pembroke	0	200,094	1,146	0	0	108	0	0
Stafford	0	500	0	0	0	2	0	0
County Total	0	1,013,205	6,460	0	0	492	10	0
Livingston County								
Avon	0	21,103	0	0	0	13	3	0
Caledonia	0	65,384	80	0	0	50	0	0
Groveland	0	0	0	0	0	2	0	0
Leicester	0	7,244	0	0	0	10	4	0
Nunda	0	0	0	0	0	1	0	0
Portage	0	1,241	0	0	0	2	0	0
Sparta	0	0	0	0	0	1	1	0
West Sparta	0	50	0	0	0	7	0	0
York	0	54,561	0	0	0	50	0	0
County Total	0	149,583	80	0	0	136	8	0
Madison County								
Brookfield	0	0	0	0	0	1	0	0
Lebanon	0	31,707	0	0	0	3	0	0
County Total	0	31,707	0	0	0	4	0	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

1996 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								
Lysander	0	0	0	0	0	1	0	0
County Total	0	0	0	0	0	1	0	0
Ontario County								
Bristol	0	13,170	0	0	0	3	0	0
East Bloomfield	0	53,288	0	0	0	12	2	0
Geneva	0	987	0	0	0	2	1	0
Phelps	0	0	0	0	0	0	2	0
Richmond	0	1,349	0	0	0	2	0	0
West Bloomfield	0	3,518	0	0	0	2	0	0
County Total	0	72,312	0	0	0	21	5	0
Oswego County								
Richland	0	100	0	0	0	3	5	0
West Monroe	0	0	0	0	0	1	0	0
Williamstown	0	100	0	0	0	1	1	0
County Total	0	200	0	0	0	5	6	0
Seneca County								
Carrollton	0	414,782	1,949	0	0	80	0	0
Fayette	0	491,187	3,027	0	0	95	2	0
Junius	0	0	0	0	0	1	0	0
Varick	0	219,558	427	0	0	44	0	0
Waterloo	0	0	0	0	0	0	1	0
County Total	0	1,125,527	5,403	0	0	220	3	0
Steuben County								
Addison	0	0	0	0	0	0	1	0
Avoca	0	2,163	0	0	0	2	0	0
Bath	0	20,116	2	0	0	2	0	0
Cameron	0	0	0	0	0	1	0	0
Dansville	0	12,431	0	0	0	1	0	0
Erwin	0	0	0	0	1	0	1	0
Greenwood	227	1,201	21	4	0	2	0	0
Hartsville	0	0	0	0	0	1	2	0
Hornby	0	2,639	93	0	0	1	1	0
Hornellsville	0	38,745	0	0	0	1	0	0
Howard	0	2,053	0	0	0	2	0	0
Jasper	0	57,464	4	0	0	3	5	0
Prattsburg	0	0	0	0	0	0	2	0
Pulteney	0	41,057	0	0	0	1	2	0
Troupsburg	0	0	0	0	0	0	4	0
Tuscarora	0	0	0	0	0	0	1	0
West Union	37,239	40,516	16,738	147	4	1	2	18

1996 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
Steuben County (Cont)								
County Total	37,466	218,385	16,858	151	5	18	21	18
Tioga County								
Nichols	0	380,251	64	0	0	4	0	0
Owego	0	2,019,771	543	0	0	8	1	0
County Total	0	2,400,022	607	0	0	12	1	0
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	14,777	107	0	0	1	1	0
Attica	0	200	0	0	0	2	0	0
Bennington	0	184,582	2,346	0	0	88	0	0
Covington	0	41,276	80	0	0	20	4	0
Genesee Falls	0	0	0	0	0	0	1	0
Java	0	23,755	0	0	0	27	1	0
Middlebury	0	0	0	0	0	0	1	0
Perry	0	46,358	50	0	0	34	2	0
Sheldon	0	40,402	861	0	0	40	0	0
Warsaw	0	2,520	0	0	0	5	0	0
County Total	0	353,870	3,444	0	0	217	10	0
Yates County								
Barrington	0	0	0	0	0	0	1	0
Benton	0	6,843	0	0	0	11	0	0
Milo	0	203	0	0	0	1	0	0
Potter	0	0	0	0	0	0	1	0
Torrey	0	962	0	0	0	1	0	0
County Total	0	8,008	0	0	0	13	2	0
State Total	292,591	18,361,749	701,124	3,360	1,194	5,769	534	668

1996 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	0	0	0	0	0	1	0
Alma	0	0	0	0	21	0	0	0
Andover	299	80	19	14	14	0	0	0
Beech Hill-Independence	15,082	51,140	3,923	253	2	5	5	27
Bradford	162	0	590	2	0	0	0	0
Browning	400	0	4,200	64	0	0	0	0
Ceres	11	0	120	1	15	1	1	0
Clarksville	375	0	0	10	4	0	0	0
Farmersville	0	0	0	0	0	1	0	0
Ford'S Brook	52	50	55	96	50	2	0	17
Friendship	0	634	0	0	0	1	0	0
Fulmer Valley	5,583	81	121	140	72	0	2	9
Gordon Brook	0	61,168	1,793	0	0	6	4	0
Houghton	0	0	0	0	0	0	2	0
Karr Valley	0	0	0	0	0	0	1	0
Nile	59	0	43	15	0	0	0	0
Richburg	13,584	3,605	106,134	705	692	6	5	196
Rushford	0	0	0	1	1	0	3	0
Scio	187	0	2	4	0	0	0	0
Sharon	0	5,502	0	0	0	25	0	0
Sherry Hill	0	0	0	0	0	0	1	0
State Line	0	102,117	0	0	0	6	7	0
Trapping Brook	32	0	0	1	4	0	0	0
Unnamed	0	0	0	0	0	0	3	0
County Total	35,826	224,587	117,000	1,306	875	56	36	249
Broome County								
Triangle	0	0	0	0	1	0	0	0
County Total	0	0	0	0	1	0	0	0
Cattaraugus County								
Ashford	0	29,278	9	0	0	16	2	0
Beech Hill-Independence	0	0	0	0	0	0	1	0
Bradford	110,807	118,223	377,774	998	151	26	1	316
Bryant Hill Creek	0	0	0	0	0	3	0	0
Chaffee-Arcade	0	58,236	12	0	0	23	2	0
Chipmunk	18,739	167,839	35,585	201	68	7	1	60
Connoisarauley Creek	0	0	0	0	0	1	0	0
Dayton	0	14,205	0	0	0	5	0	0
Dublin Hollow	0	0	0	0	0	1	0	0
Dutch Hill	1,233	2,863	0	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	313	0	32	3	3	0	0	0
Five Mile	6,576	3,753	1,986	203	42	0	2	5
Ford'S Brook	0	0	0	0	0	0	0	0

1996 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)								
Four Mile	1,004	0	670	43	9	0	0	0
Hog Hollow	0	3,417	0	0	0	1	3	0
Indian Creek	0	0	0	0	0	1	0	0
Jersey Hollow	0	0	0	0	0	1	0	0
Lakeshore	704	920,759	196	0	0	324	17	0
Little Valley	0	200	0	0	0	1	0	0
Nashville	0	3,934	0	0	0	1	0	0
Olean	0	0	0	1	0	0	0	0
Perrysburg	0	3,190	0	0	0	1	0	0
Pigeon Hill	0	0	0	0	0	3	3	0
Sardinia	0	0	0	0	0	0	1	0
Unnamed	0	0	0	0	0	0	1	0
Unnamed	0	0	0	0	1	0	1	0
Utley Brook	0	12,596	542	0	0	9	0	0
County Total	139,376	1,338,493	416,806	1,450	274	428	37	381
Cayuga County								
Auburn	0	5,707	0	0	0	2	1	0
Auburn Geothermal	0	7,778	0	0	0	1	0	1
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	1,319,779	24,753	0	0	284	12	1
County Total	0	1,333,266	24,753	0	0	291	14	2
Chautauqua County								
Busti	37,773	20,860	1,829	411	20	5	0	0
Carroll	0	0	0	0	3	0	0	0
Cassadaga Creek	0	3,612	24	0	0	1	0	0
Clymer	5,056	3,744	2,475	3	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	5,213	23,581	6,169	8	6	10	4	0
Folsom Creek	208	870	0	1	0	1	0	0
Fredonia	1	0	0	1	0	0	0	0
Gerry-Charlotte	16,475	92,233	11,164	12	3	16	3	0
Harmony	2,579	3,082	2,302	2	0	1	0	0
Kelly Hill	0	6,086	0	0	0	1	0	0
Lakeshore	557	8,208,112	74,331	1	0	3,030	245	0
Mud Creek	0	0	0	0	0	1	0	0
North Harmony	11,996	37,396	4,515	12	1	14	7	0
Sprague Hill	65	20,377	0	2	0	1	0	0
Unnamed	0	0	0	0	0	0	3	0
Unnamed	0	4,297	0	0	0	1	2	0
County Total	79,923	8,424,250	102,809	453	34	3,084	264	0

1996 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
Chemung County								
Elmira	0	2,107	0	0	0	1	0	0
Van Etten	0	0	0	0	0	2	0	0
County Total	0	2,107	0	0	0	3	0	0
Chenango County								
Dry Wildcat	0	0	0	0	1	0	0	0
Genegantslet	0	0	0	0	4	0	0	0
County Total	0	0	0	0	5	0	0	0
Erie County								
Akron	0	45,041	75	0	0	23	4	0
Alden-Lancaster	0	278,497	254	0	0	114	23	0
Brant-Eden	0	331,807	2,715	0	0	218	12	0
Buffalo	0	7,321	0	0	0	11	4	0
Buffalo Creek	0	48,571	89	0	0	26	2	0
Central Wales	0	0	0	0	0	0	7	0
Chaffee-Arcade	0	3,581	1	0	0	1	1	0
Chestnut Ridge	0	0	0	0	0	0	1	0
Clarence	0	30	0	0	0	1	1	0
Concord	0	169,406	752	0	0	46	1	0
Concord-Onondaga	0	83,534	12	0	0	5	1	0
Cowlesville	0	6,804	109	0	0	7	4	0
East Aurora	0	98,503	150	0	0	42	8	0
Elma	0	149,485	521	0	0	46	4	0
Glenwood	0	9,750	170	0	0	7	2	0
Lakeshore	0	25,517	729	0	0	14	2	0
Lakeview	0	145,871	599	0	0	72	19	18
North Collins	0	66,303	395	0	0	51	4	0
Orchard Park-Hamburg	0	99,240	0	0	0	45	9	0
Sardinia	0	29,302	88	0	0	15	1	0
South Wales	0	0	0	0	0	1	0	0
Travers	0	68	0	0	0	1	0	0
Wales	0	14,543	245	0	0	3	2	0
West Seneca	0	51,548	0	0	0	16	3	0
County Total	0	1,664,722	6,904	0	0	765	115	18
Genesee County								
Akron	0	200	0	0	0	1	0	0
Alden-Lancaster	0	355,605	426	0	0	140	2	0
Alexander	0	4,628	0	0	0	1	0	0
Bergen	0	61,257	0	0	0	3	0	0
Bethany	0	28,221	1,262	0	0	29	0	0
Danley Corners	0	58,410	827	0	0	22	1	0
Ellicott Creek	0	0	0	0	0	0	2	0
Huron Creek	0	331,675	3,096	0	0	174	0	0
Indian Falls	0	128,097	705	0	0	93	1	0
Pavilion	0	301	0	0	0	4	1	0

1996 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
Genesee County (Cont)								
Roanoke	0	4,314	0	0	0	6	1	0
Uhley Corners-Caledonia	0	40,497	144	0	0	19	2	0
County Total	0	1,013,205	6,460	0	0	492	10	0
Livingston County								
Avon	0	21,103	0	0	0	13	3	0
Dansville	0	50	0	0	0	7	0	0
Finnegan Hill	0	21,533	40	0	0	10	0	0
Groveland	0	0	0	0	0	2	0	0
Hunt Hollow	0	1,241	0	0	0	4	0	0
Leicester	0	6,895	0	0	0	9	4	0
Silver Lake	0	349	0	0	0	2	0	0
Sparta	0	0	0	0	0	0	1	0
Uhley Corners-Caledonia	0	98,412	40	0	0	89	0	0
County Total	0	149,583	80	0	0	136	8	0
Madison County								
Lebanon	0	31,707	0	0	0	3	0	0
Sangerfield	0	0	0	0	0	1	0	0
County Total	0	31,707	0	0	0	4	0	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
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
County Total	0	0	0	0	0	1	0	0

1996 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								
Benton Run	0	987	0	0	0	2	0	0
East Bloomfield	0	53,288	0	0	0	12	2	0
Geneva	0	0	0	0	0	0	1	0
Melvin Hill	0	0	0	0	0	0	1	0
Unnamed	0	0	0	0	0	0	1	0
Vincent	0	13,170	0	0	0	3	0	0
West Bloomfield	0	3,853	0	0	0	3	0	0
Whetstone Brook	0	1,014	0	0	0	1	0	0
County Total	0	72,312	0	0	0	21	5	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	100	0	0	0	3	5	0
County Total	0	200	0	0	0	5	6	0
Seneca County								
Bradford	0	414,782	1,949	0	0	80	0	0
Fayette-Waterloo	0	690,993	3,454	0	0	136	2	0
Geneva	0	0	0	0	0	0	1	0
Neilson Road Pool	0	15,217	0	0	0	1	0	0
Reeder Creek	0	4,335	0	0	0	1	0	0
Rose Hill	0	200	0	0	0	1	0	0
Whiskey Hill	0	0	0	0	0	1	0	0
County Total	0	1,125,527	5,403	0	0	220	3	0
Steuben County								
Andover	227	0	15	4	0	0	0	0
Avoca	0	2,163	0	0	0	2	0	0
Beech Hill-Independence	37,239	40,516	16,738	147	4	0	0	18
Big Creek	0	38,745	0	0	0	1	0	0
Corning	0	0	0	0	0	0	1	0
Crosby Creek	0	0	0	0	0	0	1	0
Dry Wildcat	0	0	0	0	1	0	1	0
East Harrison	0	0	0	0	0	0	1	0
Glodes Corners Road	0	0	0	0	0	0	1	0
Howard	0	2,053	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	195	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	2,639	93	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	12,431	0	0	0	1	0	0

1996 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)								
Thomas Corners	0	20,116	2	0	0	2	0	0
Unnamed	0	1	6	0	0	1	6	0
Waldo Creek	0	41,057	0	0	0	1	0	0
Woodhull	0	0	0	0	0	0	4	0
Wyckoff	0	57,269	4	0	0	2	2	0
County Total	37,466	218,385	16,858	151	5	18	21	18
Tioga County								
Cafferty Hill	0	73	0	0	0	1	0	0
Stagecoach	0	2,399,949	607	0	0	11	1	0
County Total	0	2,400,022	607	0	0	12	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	26,280	203	0	0	6	0	0
Attica	0	0	0	0	0	1	0	0
Cascade Brook	0	8	0	0	0	1	0	0
Castile	0	0	0	0	0	0	1	0
Cowlesville	0	1,599	0	0	0	1	0	0
Danley Corners	0	156,903	2,143	0	0	82	0	0
Dutch Hollow	0	275	0	0	0	1	0	0
Java	0	21,761	0	0	0	25	1	0
Leicester	0	90,146	130	0	0	56	6	0
Northwoods	0	14,777	107	0	0	1	0	0
Sheldon	0	38,959	838	0	0	39	0	0
Silver Lake	0	0	0	0	0	1	0	0
Tozier'S Corners	0	3,162	23	0	0	2	0	0
Unnamed	0	0	0	0	0	0	1	0
Wyoming	0	0	0	0	0	1	1	0
County Total	0	353,870	3,444	0	0	217	10	0
Yates County								
North Penn Yan	0	7,805	0	0	0	12	0	0
South Penn Yan	0	203	0	0	0	1	1	0
Sugar Creek	0	0	0	0	0	0	1	0
County Total	0	8,008	0	0	0	13	2	0
State Total	292,591	18,361,749	701,124	3,360	1,194	5,769	534	668

1996 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								
Clarksville	375	0	0	10	4	0	0	0
Devonian Shale	0	0	0	0	0	0	1	0
Fulmer Valley	19,968	51,066	4,033	362	73	4	3	36
Marcellus	0	0	0	0	0	0	2	0
Medina	0	634	0	0	0	1	4	0
Onondaga	0	0	0	0	0	0	3	0
Oriskany	0	163,285	1,793	0	0	12	12	0
Penny	343	125	8	22	14	3	0	0
Penny & Fulmer Valley	647	160	22	23	0	0	4	0
Richburg	13,227	2,680	106,444	784	687	5	5	135
Richburg-Waugh & Porter	0	0	0	0	1	0	0	0
Scio	587	0	4,202	68	0	0	0	0
Unknown	0	0	0	0	0	0	1	0
Upper Devonian	40	5,712	0	2	1	29	0	0
Upper Devonian Shale	0	0	0	0	0	0	1	0
Waugh & Porter	639	925	498	35	95	2	0	78
County Total	35,826	224,587	117,000	1,306	875	56	36	249
Broome County								
Queenston	0	0	0	0	1	0	0	0
County Total	0	0	0	0	1	0	0	0
Cattaraugus County								
Akron	0	0	0	0	0	1	0	0
Bradford	94,183	3,761	378,029	888	179	26	1	318
Bradford & Chipmunk	0	0	0	0	1	3	0	0
Bradford Third	140	0	0	8	18	0	0	3
Chipmunk	39,909	17,730	37,750	525	75	0	2	60
Fulmer Valley	0	0	0	0	0	0	1	0
Medina	704	1,019,751	759	1	0	381	31	0
Onondaga	1,841	127,866	0	2	0	8	0	0
Oriskany	0	157,526	0	0	0	6	1	0
Richburg	0	0	0	0	0	0	0	0
Theresa	0	0	0	0	0	1	0	0
Unnamed	0	0	0	0	0	0	1	0
Upper Devonian	2,599	0	268	26	1	0	0	0
Whirlpool	0	11,859	0	0	0	2	0	0
County Total	139,376	1,338,493	416,806	1,450	274	428	37	381
Cayuga County								
Black River	0	7,778	0	0	0	1	0	1
Onondaga	0	0	0	0	0	0	1	0
Oriskany	0	0	0	0	0	1	0	0
Queenston	0	1,325,487	24,753	0	0	288	13	1
Trenton	0	1	0	0	0	1	0	0
County Total	0	1,333,266	24,753	0	0	291	14	2

1996 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
Chautauqua County								
Akron	0	0	0	0	0	0	1	0
Bass Island	27,575	137,370	20,442	31	7	27	12	0
Glade	37,773	19,573	1,829	411	23	4	0	0
Medina	0	8,144,872	73,332	0	1	3,031	245	0
Not Reported	0	0	0	0	0	0	4	0
Onondaga	14,575	49,790	7,127	11	2	12	1	0
Perrysburg	0	0	0	0	0	0	1	0
Syracuse	0	0	0	0	1	0	0	0
Theresa	0	4,297	0	0	0	1	0	0
Upper Devonian	0	3,642	24	0	0	5	0	0
Whirlpool	0	64,706	55	0	0	4	0	0
County Total	79,923	8,424,250	102,809	453	34	3,084	264	0
Chemung County								
Marcellus	0	2,107	0	0	0	1	0	0
Oriskany	0	0	0	0	0	2	0	0
County Total	0	2,107	0	0	0	3	0	0
Chenango County								
Hamilton	0	0	0	0	4	0	0	0
Not Reported	0	0	0	0	1	0	0	0
County Total	0	0	0	0	5	0	0	0
Erie County								
Akron	0	22,224	20	0	0	25	0	0
Medina	0	1,557,967	6,872	0	0	732	105	18
Onondaga	0	84,531	12	0	0	8	9	0
Oriskany	0	0	0	0	0	0	1	0
County Total	0	1,664,722	6,904	0	0	765	115	18
Genesee County								
Medina	0	1,013,205	6,460	0	0	492	8	0
Onondaga	0	0	0	0	0	0	2	0
County Total	0	1,013,205	6,460	0	0	492	10	0
Livingston County								
Hamilton	0	0	0	0	0	3	0	0
Marcellus	0	50	0	0	0	3	0	0
Medina	0	149,533	80	0	0	130	8	0
County Total	0	149,583	80	0	0	136	8	0
Madison County								
Herkimer	0	0	0	0	0	1	0	0

1996 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
Madison County (Cont)								
Herkimer-Oneida	0	31,707	0	0	0	3	0	0
County Total	0	31,707	0	0	0	4	0	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	0	0
County Total	0	0	0	0	0	1	0	0
Ontario County								
Medina	0	71,325	0	0	0	19	2	0
Niagara	0	0	0	0	0	0	1	0
Queenston	0	987	0	0	0	2	2	0
County Total	0	72,312	0	0	0	21	5	0
Oswego County								
Trenton	0	200	0	0	0	5	6	0
County Total	0	200	0	0	0	5	6	0
Seneca County								
Bradford	0	414,782	1,949	0	0	80	0	0
Niagara	0	0	0	0	0	0	1	0
Queenston	0	691,193	3,454	0	0	138	2	0
Rochester Shale	0	4,335	0	0	0	1	0	0
Sodus Shale	0	15,217	0	0	0	1	0	0
County Total	0	1,125,527	5,403	0	0	220	3	0
Steuben County								
Black River	0	41,057	0	0	0	1	4	0

1996 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)								
Fulmer Valley	37,239	40,517	16,744	147	4	1	1	18
Marcellus	0	2,163	0	0	0	2	0	0
Not Reported	0	0	0	0	1	0	1	0
Onondaga	0	89,816	6	0	0	5	1	0
Oriskany	0	43,632	93	0	0	6	14	0
Penny	0	1,200	0	0	0	1	0	0
Penny & Fulmer Valley	227	0	15	4	0	0	0	0
Rhinestreet	0	0	0	0	0	1	0	0
Tully	0	0	0	0	0	1	0	0
County Total	37,466	218,385	16,858	151	5	18	21	18
Tioga County								
Marcellus	0	73	0	0	0	1	0	0
Oriskany	0	2,399,949	607	0	0	11	1	0
County Total	0	2,400,022	607	0	0	12	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	3,162	23	0	0	2	0	0
Medina	0	335,648	3,314	0	0	212	8	0
Not Reported	0	0	0	0	0	0	1	0
Theresa	0	14,785	107	0	0	2	0	0
Upper Devonian	0	275	0	0	0	1	0	0
Whirlpool	0	0	0	0	0	0	1	0
County Total	0	353,870	3,444	0	0	217	10	0
Yates County								
Medina-Queenston	0	743	0	0	0	1	0	0
Queenston	0	7,265	0	0	0	12	2	0
County Total	0	8,008	0	0	0	13	2	0
State Total	292,591	18,361,749	701,124	3,360	1,194	5,769	534	668

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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