

**New York State
Oil, Gas
and
Mineral Resources
2008**

**New York State
Department of Environmental Conservation
Division of Mineral Resources
625 Broadway
Albany, New York 12233-6500**

www.dec.ny.gov



Division Mission Statement

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

This report was produced by the
NYS Department of Environmental Conservation

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Executive Summary

Mining occurs in every region of the State except the New York City area. Oil and gas development has historically occurred in the western half of the State, but the Finger Lakes region has been experiencing heavy activity for several years. Because of differences in legal reporting requirements, the types of statistics presented for the two programs are not identical.

Oil, Gas and Solution Mining

Inspections - Staff traveled 95,672 miles and performed 2,445 oil and gas inspections.

Permits and Completions

Gas:	Permits	429	Completions	270
Oil:	Permits	250	Completions	172
Other:	Permits	58	Completions	58
Total:	Permits	737	Completions	500

Wells Reported (All Types) 2008 - 14,513

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

Production and Market Value

Gas	50.320 bcf	Value Down	7%
Oil	397,060 bbl	Value Up	25%
Total O&G Mkt Value \$488 million			

State Leasing - 91 leases were in effect covering 63,591 acres; 266 producing wells.

Revenues from Oil and Gas

State Revenues	\$3.1 million
Local Govt. Taxes (est.)	\$14.6 million
Landowner Royalties (est.)	\$61.0 million

Underground Natural Gas Storage - 24 facilities were 79% full at year-end.

Total Storage Capacity	223 bcf
Working Gas Capacity	113 bcf
Max. Deliverability	2.127 bcf/day

Solution Mining - Five facilities produced 1.93 billion gallons of brine, equal to 2.25 million metric tons of salt.

Financial Security - In 2008 New York held \$24.7 million to guarantee well plugging and site reclamation.

Mined Land Reclamation

Inspections - Staff traveled 89,964 miles to perform 2,417 mine inspections.

Permits Issued

	Annual Fees
Total Permits	462
New Permits	37
Renewal & Mod.	585

Active Mines 2,166

Estimated Market Value \$1.3 billion

US Production Rank by Quantity

Wollastonite	1st	Salt, Peat	3rd
Garnet	1st	Talc, Zinc	4th

NY Rank by Value

Crushed Stone	1st	Sand & Gravel	4th
Cement	2nd	Zinc	5th
Salt	3rd	Wollastonite	6th

Common Mine Types

Sand & Gravel	1,734
Limestone	80
Bluestone	83

Owner Type

Industry	1,708
County	49
Town	395

Net Affected Acreage 49,076

Life-of-Mine Acreage 119,183

Reclaimed Acreage, 2008 1,842

Reclaimed Since 1975 28,520

Financial Security - In 2008 New York required \$167.5 million to guarantee mine site reclamation.

Division of Mineral Resources Program Highlights

New York State gas production in 2008 was 50.320 billion cubic feet (bcf), down 8.4% from the previous year. Trenton-Black River production declined, but still accounted for 69% (34.8 bcf) of 2008 production. Oil production rose 3% to 397,060 barrels in 2008.

The total number of wells completed dropped 6% from 2008, but the number of gas wells completed (270) remained almost exactly the same as the previous year. Four new Trenton-Black River gas fields started production in 2008: Dry Run Creek and Lamoka in Steuben County, Skye-Top in Chemung County, and Halsey Valley in Tioga County.

In 2008 drilling permits rose 28% to 737, which is close to permit levels in 1983-1984, another period of high activity. Total drilled depth of the wells for the year was over 1.37 million feet (more than the distance from Schenectady to Buffalo). Drilling rig availability continued to be a significant concern for New York's oil and gas operators.

By year-end 2008 a total of 19 deep wells had been drilled on or adjacent to State land. In 2008 New York collected \$2.0 million in royalties from the wells draining State land. Steuben County had the most State acreage under lease.

In 2008 the Division of Mineral Resources conducted 42 compulsory integration hearings, which resulted in 36 finalized orders. The remaining orders were referred to the Office of Hearings and Mediation Services for adjudication on issues including data and site access, assessment of risk penalties, and pipeline costs.

Marcellus permit activity increased greatly in 2008. The Division received a total of 58 Marcellus permit applications (45 vertical, 13 horizontal). Six vertical Marcellus wells were spud in 2008 in Allegany, Chemung and Chenango counties. The 2008 activity brought the State's total number of Marcellus producing wells to 15.

In 2008 there were 2,166 active DEC-regulated mines in New York State, a drop of 27 mines from 2007 and the tenth straight year of decline. Increasingly, mine operators are choosing to replace production by expanding current mines, rather than opening new ones. This trend holds true for both sand and gravel mines and hardrock quarries. Only 37 of the 462 mining permits issued in 2008 were for new facilities.

Nevertheless, production of the State's major mined commodities remains relatively level from year to year. The U.S. Geological Survey estimates the annual value of New York's mineral production at roughly \$1.3 billion. Mining is spread fairly evenly across the State because of the need to keep trucking distances down and reduce the cost of transporting heavy materials. Sand and gravel mines account for over 80% of DEC-regulated mines and 29 of the new permits issued in 2008, or 78%, were for sand and gravel.

Interest in bluestone mining remained steady in 2008. One new mine was permitted and seven Exploration Authorizations were issued to mine operators allowing them to evaluate potential bluestone sites for a limited period of time (one year with possible one-year renewal).

A total of 49,076 acres were affected by mining in 2008 out of a total approved life-of-mine area of 119,183 acres. The Division continued to have success promoting concurrent reclamation with 1,205 acres reclaimed at 97 operating mines. Final reclamation of 637 acres occurred at 74 closed mines bringing the 2008 total to 1,842 acres. Roughly 28,520 acres of land affected by mining have been reclaimed since 1975.

In 2008 the Division held over \$167.5 million in financial security to guarantee mine reclamation. The increase of \$28 million from the previous year was due, in part, to a new method for calculating financial security introduced in 2006. The improved method brings financial security requirements more in line with modern-day reclamation costs.

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2008 Fact Sheets: Products of New York State Mines

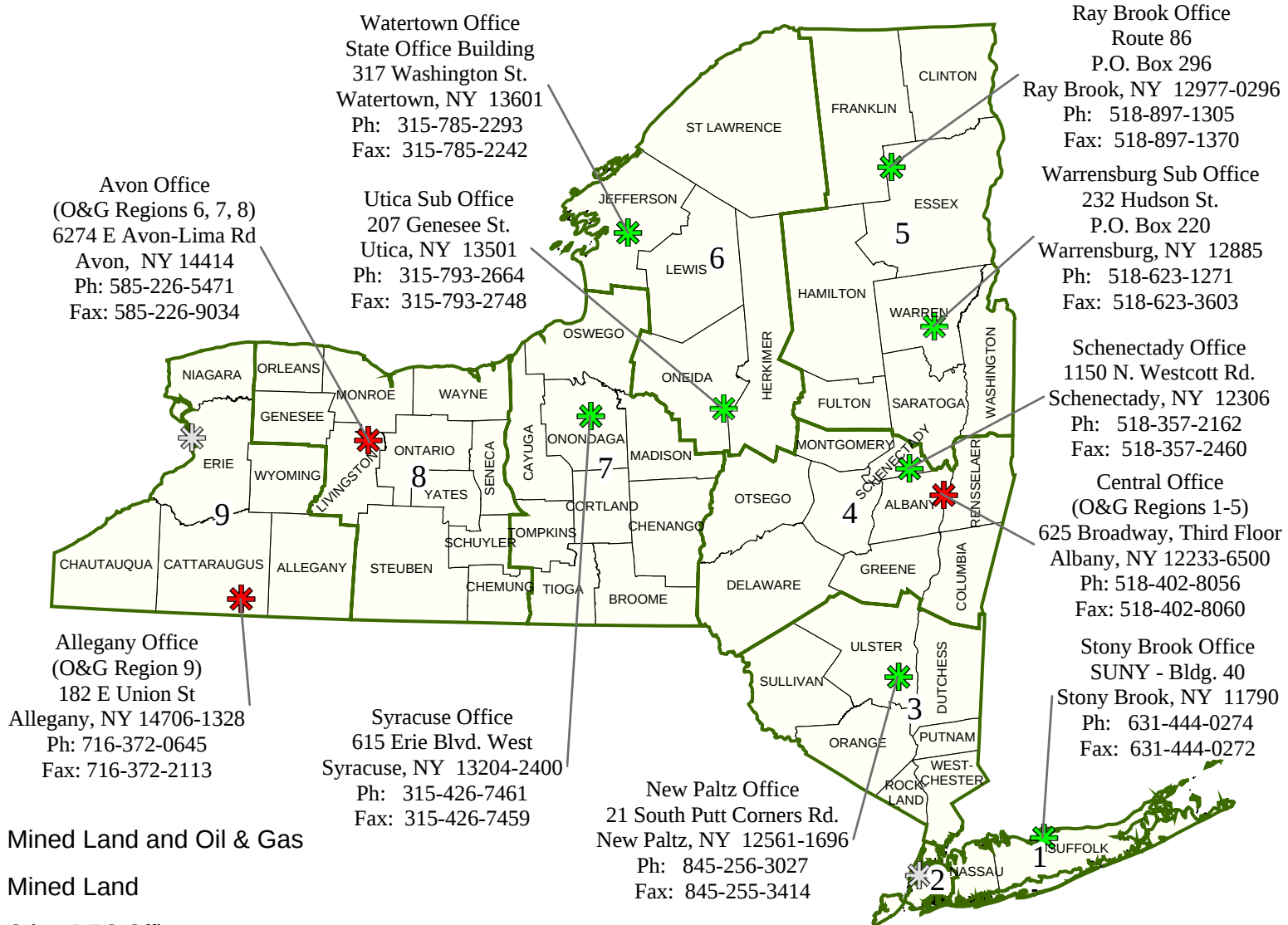
Details on the economic rank for major mine products and location of the largest mines

Appendices

Appendix 1 - Oil and Gas Data

Appendix 2 - Mined Land Data

Map 1 - Division of Mineral Resources Regional Service Areas



2008 New York Oil & Gas Industry At a Glance

Production and Market Value

Gas	50.320 bcf	Value down	7%
Oil	397,060 bbl	Value up	25%
Total Market Value	\$488 Million		

All Reported Wells 14,513

Active Wells

Natural Gas	6,675
Oil	3,617
Gas Storage	929
Solution Salt	131

Revenues In Millions

State Leasing	\$2.2 Million
Local Govt. (est.)	\$14.6 Million
Landowner Royalties (est.)	\$61.0 Million

Underground Gas Storage

24 facilities, 79% full at year-end	
Total Storage Capacity	223 bcf
Working Gas Capacity	113 bcf
Max. Deliverability	2.127 bcf/day

Financial Security

Plugging & Reclamation
\$24,663,543

Solution Mining

Five facilities produced 1.93 billion gallons
of brine (2.25 million metric tons salt)

State Leasing

91 leases covered 63,591 acres
226 productive wells

Natural Gas & Oil Abbreviations



Abbreviations for natural gas
volume measurements:

mcf thousand cubic feet
mmcf million cubic feet
bcf billion cubic feet

Crude oil is also
measured by vol-
ume. One barrel
equals 42 gallons.



bbl barrel

What's an MCF Do ?

Roughly 4.2 million
households in New
York use natural gas
for home heat, cooking and heating water.
It takes just 69 mcf per year to heat the
average New York home.* The State's
2008 production of 50.3 bcf was enough
to heat 729,269 homes.



* 2005 NYS Energy Fast Facts, NYSDORA

Market Value and Economic Benefits

Market Value

Estimated total market value for New York's oil and gas decreased 6% to \$488 million in 2008. Breaking down the figures in more detail, the value of natural gas decreased from \$486 million in 2007 to \$450 million in 2008. New York produces much less oil than gas, but oil's market value rose by 25%, from \$30.4 million in 2007 to \$38.1 million in 2008.

Tax Revenues to Local Governments

Communities in oil and gas producing areas also benefit from the industry's activity. The Division estimates that real property taxes on 2008 production totaled roughly \$14.6 million, a 6% decrease from the previous year.

To dampen the impact of fluctuating oil and gas prices, local governments assess their taxes on a unit of production value determined by the NY State Division of Equalization and Assessment using a five-year average.

State Lease Oil and Gas Prices

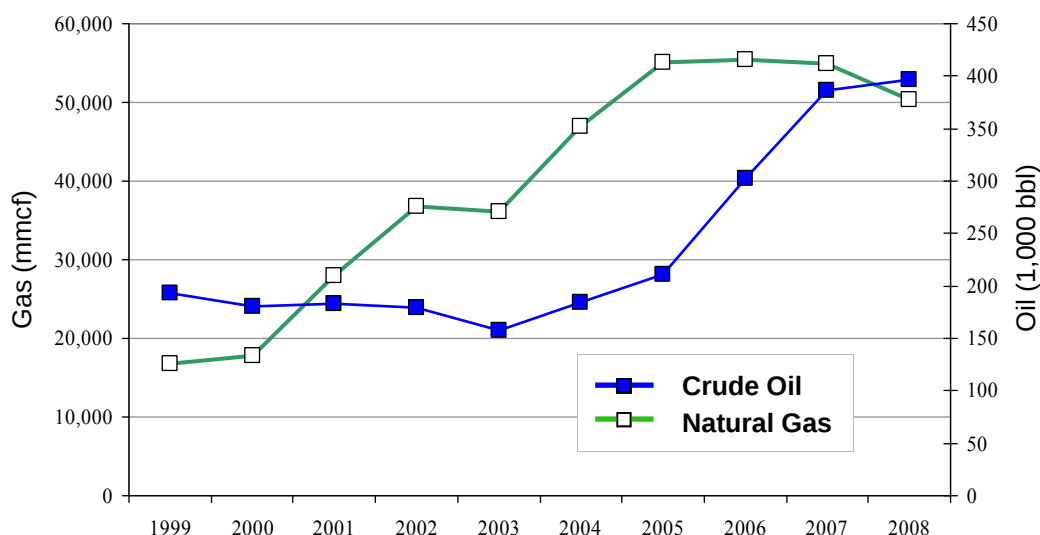
The average wellhead natural gas price of \$8.94 per mcf in 2008 was up slightly from \$8.85 in 2007. The average 2008 oil price of \$99.29 per bbl was up 26% from \$78.59 in 2007. These average prices were obtained from royalty payments made to New York for leases on State lands.

Landowner Royalties and Landowner Wells

The majority of landowners with producing oil and gas leases receive a royalty from the well operator. Based on an average royalty of one-eighth of the production value, the Division estimates that landowners in New York received roughly \$61 million in royalties in 2008.

In addition, roughly 500 of New York's gas well operators (mostly landowners) own just one well. Typically, the wells are no longer considered commercially productive, but can provide enough gas to help reduce or eliminate the landowner's home heating costs.

Chart 1 - New York State Oil and Gas Production, 1999 - 2008



Production of Oil and Gas

Natural Gas Production

New York's reported natural gas production for 2008 was 50.320 bcf, down from 54.619 bcf in 2007. Roughly 34.8 bcf of gas came from just 100 producing Trenton-Black River wells, with one (1) well alone producing 2.1 bcf. Production from other formations rose 14% as a group, with notable increases from the Queenston (49%) and Herkimer-Oneida-Oswego (135%).

In 2008 Steuben County was the top gas-producing county. Steuben and Chemung counties accounted for 65% of New York's 2008 production. Chautauqua County continued to rank third (see Table 1).

Oil Production

In 2008 New York's oil production rose 3% to 397,060 barrels, the highest since 1992. From 2005 to 2008 oil reserves more than doubled.

Top Producers

In 2008 the top gas producer was Fortuna Energy Inc., at 31.34 bcf of gas, and the top oil producer was East Resources, at 122,832 bbl of oil. Tables 2 and 3 on page 12 show the top 10 oil and gas producers. Tables 5 and 6 on page 16 show the top 10 Trenton-Black River wells and fields.

Table 1 - Top 10 Gas Counties, 2008

County	Gas (mcf)	Active Gas Wells	Average mcf/Well
Steuben	17,146,368	69	248,498
Chemung	15,626,276	43	363,402
Chautauqua	6,758,069	3,438	1,966
Erie	1,961,665	961	2,041
Seneca	1,606,948	214	7,509
Cattaraugus	1,593,604	528	3,018
Schuyler	1,060,947	18	58,942
Tioga	1,038,093	1	1,038,093
Cayuga	838,287	291	2,881
Genesee	767,032	519	1,478

For Further Details

Map 2 on page 13 gives production information by town. Table 4 on page 14 gives production by geologic formation. For further production details, please visit our website at www.dec.ny.gov/energy/1601.html.

Chart 2 - Producing Formation for NY Natural Gas, 2003 - 2008

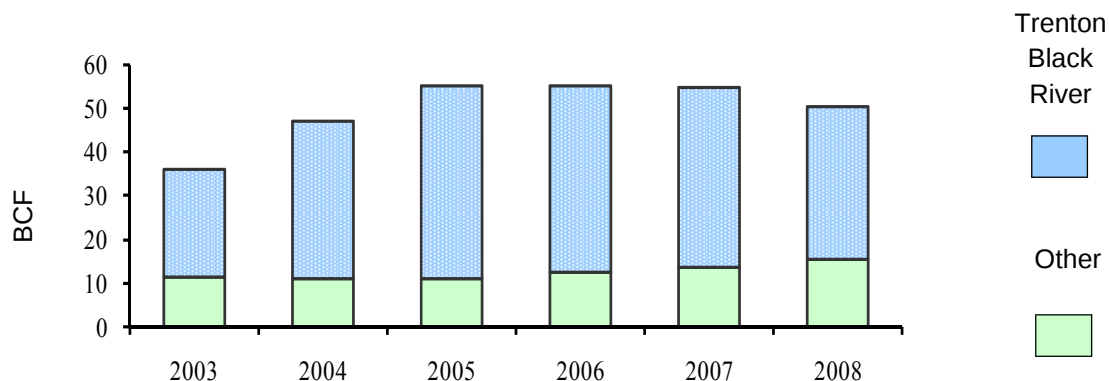


Table 2 - Top 10 Gas Producing Companies, 2008

Company	2008 Gas (mcf)	2007 Rank	2008 Change
1. Fortuna Energy, Inc.	31,344,702	1	-20%
2. Chesapeake Appalachia, LLC	5,579,586	2	+63%
3. Range Resources-Appalachia, LLC	2,288,171	3*	-9%
4. U. S. Energy Development Corp.	1,601,132	5	+66%
5. EnerVest Operating, LLC	1,142,917	New**	NA
6. Nornew, Inc.	1,068,956	4**	-45%
7. United States Gypsum Co.	558,918	6	-1%
8. Stedman Energy, Inc.	530,507	>10	+27%
9. Universal Resources Holdings, Inc.	468,164	9	+5%
10. Seneca Resources Corp.	428,129	7	-10%

* Transfer from Great Lakes Energy

** Well transfers from Nornew to EnerVest

Table 3 - Top 10 Oil Producing Companies, 2008

Company	2008 Oil (bbl)	2007 Rank	2008 Change
1. East Resources, Inc.	122,832	1	-34%
2. McCracken, Carl A. III	35,081	2	+42%
3. Case Brothers Inc.	29,849	3	+102%
4. Dallas Energy, LLC	23,206	6	+143%
5. Copper Ridge Oil, Inc.	21,163	10	+183%
6. Nathan Petroleum Corp.	11,781	4	-9%
7. Johnson, Mark & Troy	10,806	8	+44%
8. Otis Eastern Service, Inc.	10,003	5	-14%
9. Pefley Oil & Gas, Inc.	8,757	>10	+497%
10. Snyder Brothers, Inc.	7,647	>10	+35%

Map 2 - New York State Gas Production by Town, 2008

Gas

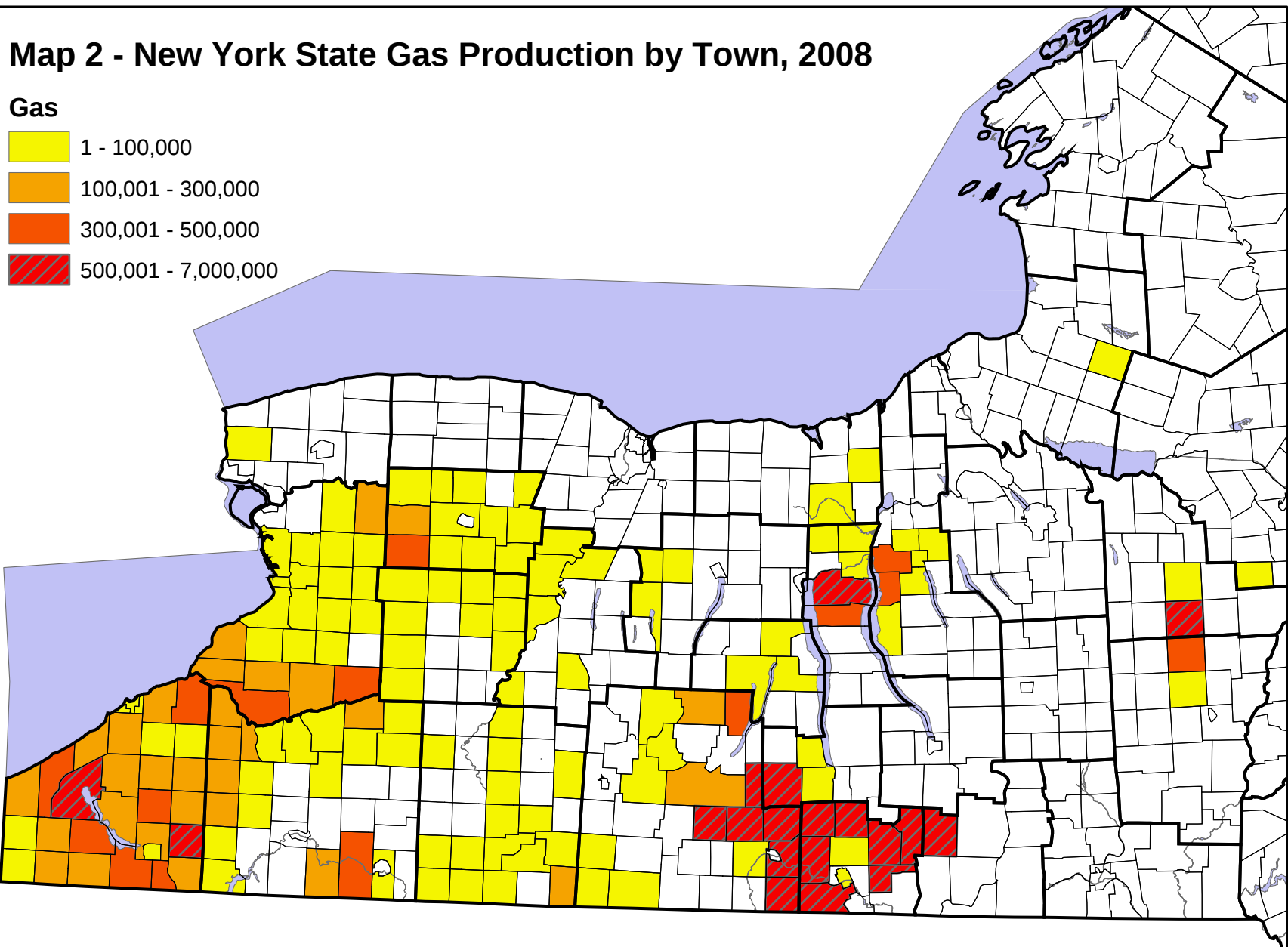
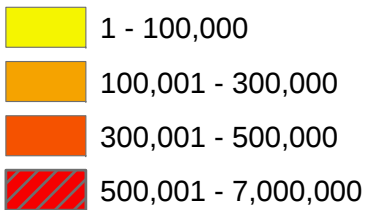


Table 4 - Production by Geologic Formation, 2008

Formation	Wells¹	Gas (mcf)	Oil (bbl)
Devonian Shale	28	24,523	0
Undifferentiated Canadaway Group ²	4,441	355,612	292,553
Perrysburg	1,069	297,751	68,140
Tully	11	16,958	1,058
Hamilton	3	0	0
Marcellus	28	64,063	0
Onondaga	76	48,537	1,528
Oriskany	40	190,854	0
Helderberg	1	0	0
Akron	29	13,708	0
Herkimer-Oneida- Oswego	79	935,557	0
Medina	6,551	10,302,222	1,412
Bass Island	82	136,516	13,614
Queenston	589	2,460,968	0
Trenton	13	41,872	0
Black River	138	34,768,042	0
Little Falls	1	10,674	0
Theresa	25	534,866	0
Other	478	117,160	5,500

1 Active, temporarily abandoned and shut-in wells

2 Undifferentiated Canadaway Group includes Glade, Richburg, Bradford, and other well-known oil producing formations

**To see a stratigraphic column of New York's geologic formations
go to <http://www.dec.ny.gov/energy/33893.html>**

Map 3 - Trenton-Black River Fields, Central New York, 2008*

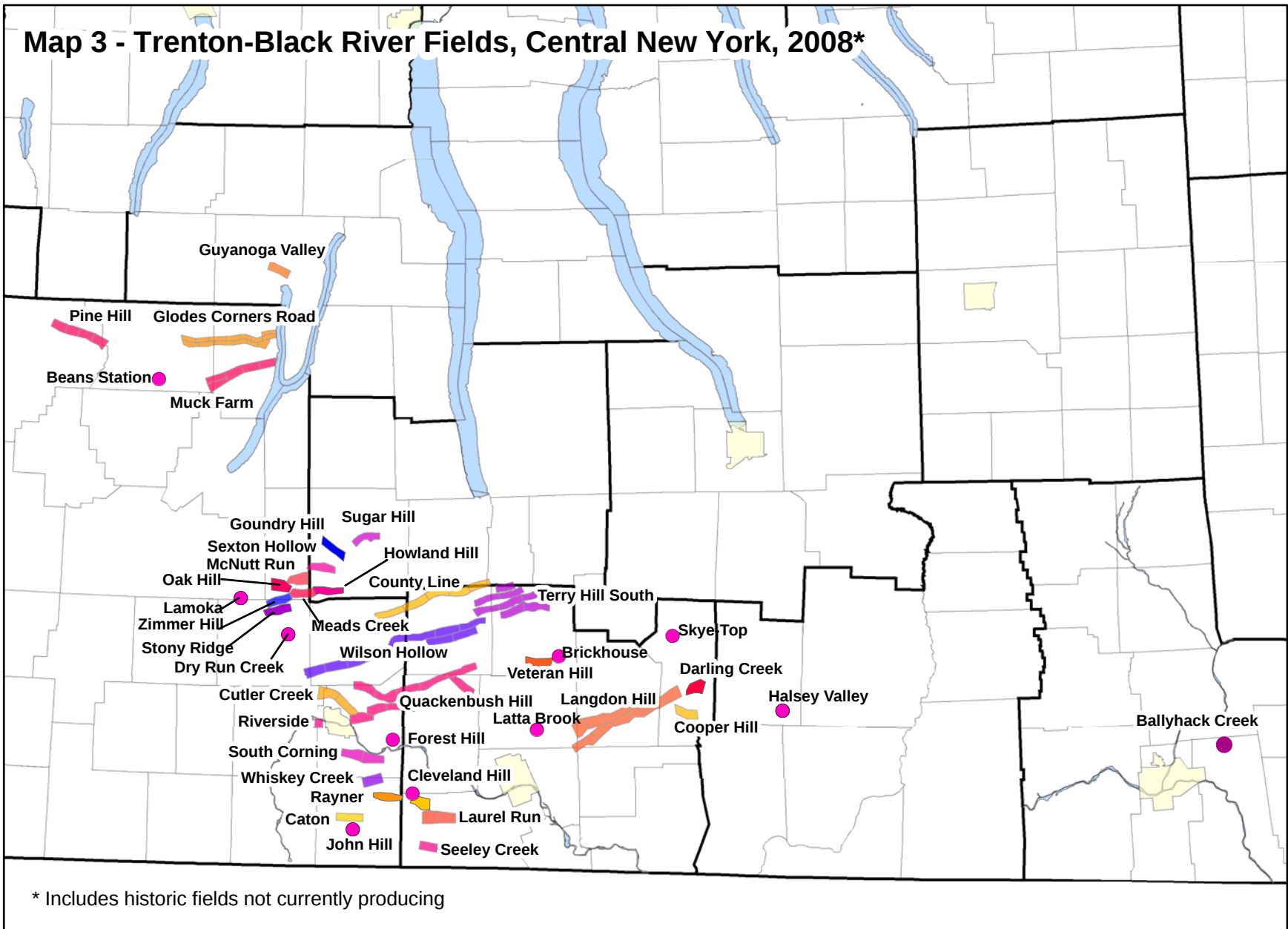


Table 5 - Top 10 Wells, Trenton-Black River Production, 2008

Well Name	API Identification Number	2008 Production (bcf)	County/ Field
Gross D1	31101239020000	2,115,603	Steuben/Quackenbush Hill
Dzybon 1	31101238670000	1,967,857	Steuben/Forest Hill
Hartman, BJ 1	31101232270000	1,622,600	Steuben/Rayner
Drumm J. 1A	31101239850100	1,618,175	Steuben/Green Hill
Stoscheck 1	31015238140000	1,530,278	Chemung/Darling Creek
Lovell 1323	31015228310000	1,470,724	Chemung/Quackenbush Hill
Cotton-Hanlon 2	31015239870000	1,208,513	Chemung/Cramer Hollow
Gillis 1	31101231100000	1,105,742	Steuben/Rayner
Michaloski 1	31101239210000	1,038,255	Steuben/Caton
Winter G 1A	31107238550100	1,038,093	Tioga/Halsey Valley

Table 6 - Top 10 Fields, Trenton-Black River Production, 2008

Field Name	2007 Production (bcf)	2008 Production (bcf)	Cumulative Production Year-End 2008	First Year of Production
Quackenbush Hill	9,555,996	7,801,356	95,729,531	2000
Rayner	3,978,014	2,728,342	12,445,618	2005
Langdon Hill	1,716,659	2,260,014	11,481,080	2001
Wilson Hollow	3,291,519	2,111,885	44,163,535	1999
Darling Creek	3,973,466	1,530,278	9,443,618	2006
Whiskey Creek	952,809	860,383	5,668,875	2003
Seeley Creek	860,920	398,253	5,864,319	2004
Muck Farm	469,284	351,543	9,211,522	1999
Terry Hill South	446,737	231,748	8,871,405	2001
Glodes Corners Road	155,487	144,410	10,027,556	1996

Drilling Permits and Well Completions

Drilling Permits

DEC issued 737 drilling permits in 2008, up 28% from the previous year. This included 430 natural gas, 250 oil, 22 geothermal, 14 brine, 12 stratigraphic, and 9 underground gas storage permits.

In 2008 DEC issued permits for wells in 25 counties; the top 3 were Chautauqua County (142), Cattaraugus County (140), and Allegany County (134). Most of the oil drilling permits were issued for Allegany (125) and Cattaraugus (94) counties. Chautauqua (117) and Erie (72) counties had the highest number of gas permits.

Well Spuds and Completions

The number of wells spud (started) in 2008 was 562. The number of permits issued in 2008 was up 28% from the previous year. The total number of completions decreased 6% to 500. Gas well

completions remained almost exactly the same as in 2007. Oil well completions fell by 13% from 2007.

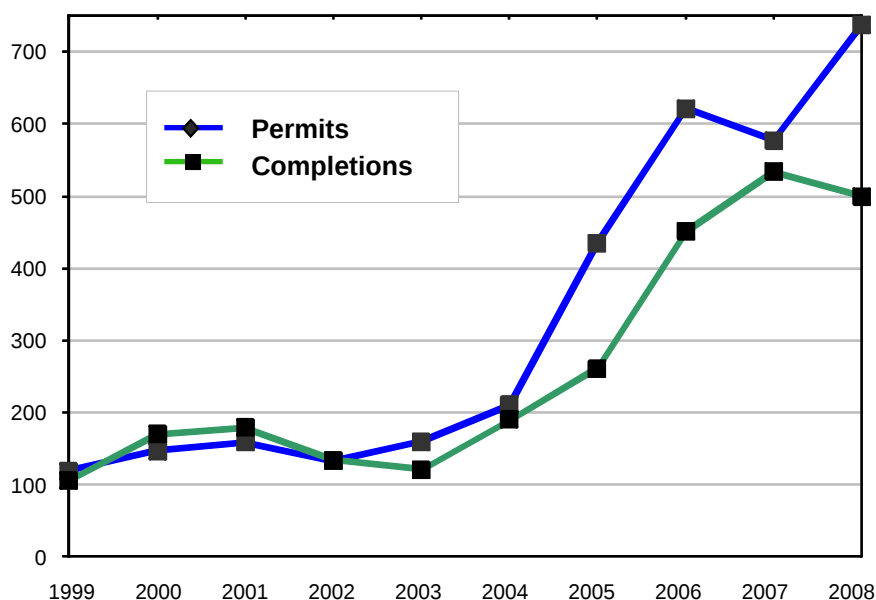
Wildcats and Extensions

Operators drilled 68 gas wildcat wells, 1 oil wildcat well, and 18 gas extension wells in 2008.

Formations Permitted

Industry interest in the Black River and Trenton formations continued, with 33 permits issued in 2008. Other primary gas targets included the Medina and Queenston for a total of 331 permits. The Division issued 246 permits for the State's main oil-producing formations (Perrysburg and Undifferentiated Canadaway Group). Nine permits were issued for the Marcellus in 2008, and 5 vertical Marcellus wells were drilled during the year.

Chart 3 - Drilling Permits and Completions, 1999 - 2008



Drilling Permits, 2008

Gas	429
Oil	250
Other	58
Total	737

Well Completions, 2008

Gas	270
Oil	172
Other	58
Total	500

Marcellus and Other Shales

The Marcellus Shale is a black shale that forms the basal unit of the Hamilton Group in New York State. It is geographically extensive, covering an area of approximately 54,000 square miles in the Appalachian Basin states of Kentucky, New York, Ohio, Pennsylvania, and West Virginia. A 2002 estimate by the U.S. Geological Survey put basin-wide Marcellus natural gas reserves in the range of 30 trillion cubic feet (tcf). However, by 2008 the estimate had climbed closer to 400 tcf based on continued evaluation of Marcellus drilling in Pennsylvania and West Virginia.

In 2008 DEC received 58 permit applications for Marcellus wells and 13 of those were for horizontal wells. New York State's 2008 Marcellus production totaled 64,063 mcf from 15 vertical wells. The Marcellus is one of several important low-permeability shale gas reservoirs in New York State; the Utica Shale in Otsego County and the Trenton Group shales in Madison County also continue to attract interest.

Advances in horizontal drilling and hydraulic fracturing technologies, together with a sharp rise in natural gas commodity prices, spurred leasing activity. The Marcellus became the focus of a great deal of activity in the Appalachian Basin during 2008. Landmen were seeking to lease mineral rights in Delaware, Broome, Sullivan, and other counties. Press reports stated that signing bonuses up to \$2,700/acre and royalty payments of up to 18% were being offered to landowners. Landowner coalitions formed all along the Southern Tier, with one 300-member group in the New York-Pennsylvania border region near Port Jervis, NY executing a lease for roughly \$90 million.

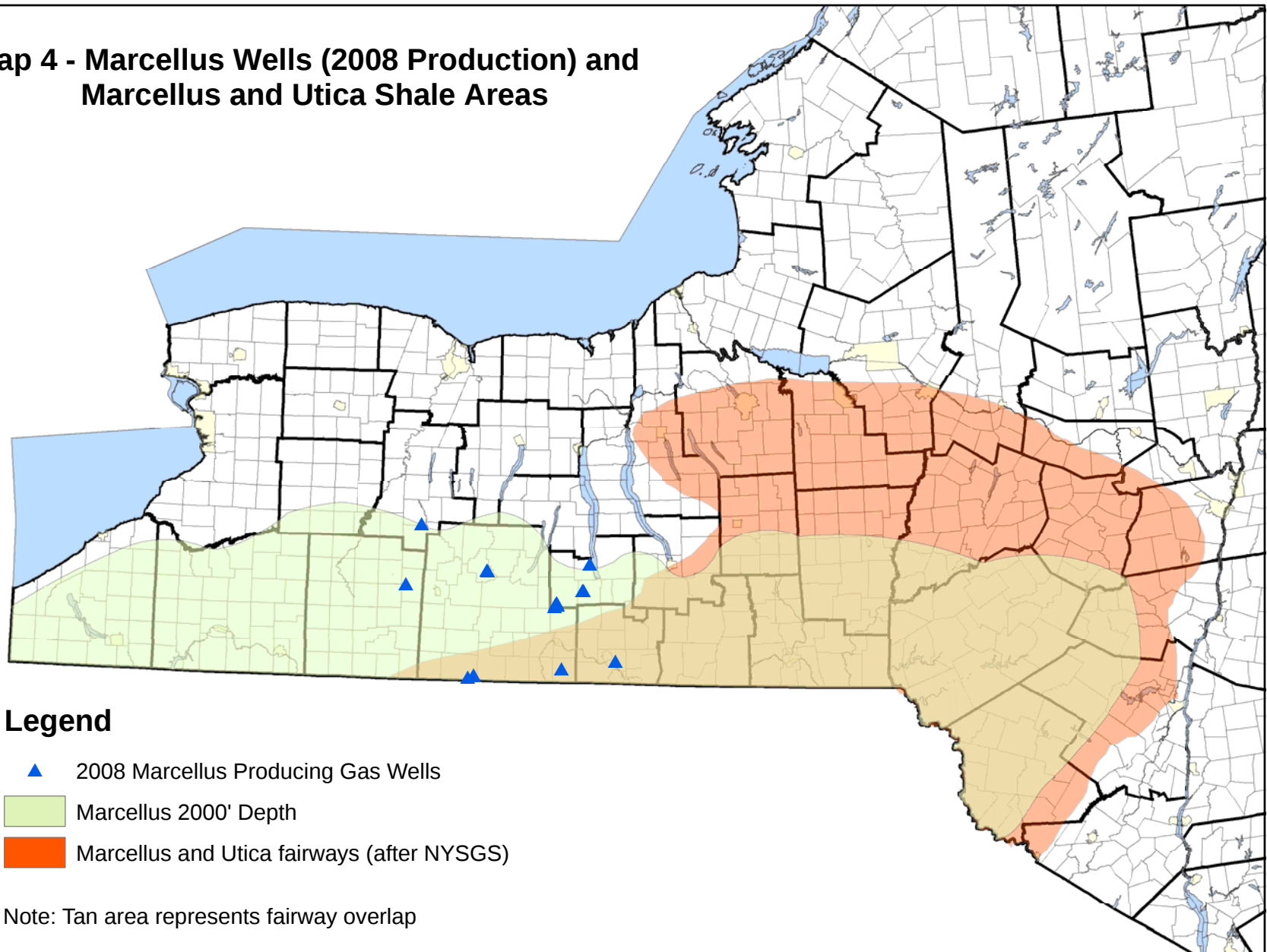
Some of the more active players in this "gas rush" were Chesapeake Appalachia, LLC; Fortuna Energy, Inc.; and East Resources, Inc. As a result of the heightened activity, Division staff spent considerable time with municipal and county leaders, as well as with members of the public, discussing the State's Oil and Gas Regulatory Program.

On July 23, 2008, the Governor signed amendments to Article 23 of the Environmental Conservation Law designed to address well spacing for horizontal wells. Importantly, the Governor also directed DEC to prepare a Supplement to its 1992 Generic Environmental Impact Statement on the Oil, Gas and Solution Mining Program (GEIS) to address horizontal drilling and high volume hydraulic fracturing in the Marcellus Shale and other low permeability natural gas reservoirs.

The document's development began with six Scoping Meetings held in the Southern Tier from November to early December 2008, where the public could recommend topics to be covered in the Supplemental GEIS (SGEIS); DEC also accepted comments submitted directly to the agency until mid-December. Upon completion of the Scoping Process, the list of potential impacts to be covered included: visual; noise; air quality; water resources; significant habitats and endangered species; invasive species; floodplains; wetlands; road use; cumulative impacts; community character; and areas of historical, architectural, and archeological significance.

Historically, shale wells in New York have been drilled vertically and then hydraulically fractured with 80,000 gallons or less of water. However, based on recent successes in shale plays in other states, the most efficient method for developing low-permeability shale reservoirs is now horizontal drilling combined with high-volume hydraulic fracturing. Horizontal drilling is not new to New York State; it was used to develop the Trenton-Black River play in the south-central Finger Lakes Region. However, high-volume hydraulic fracturing - using millions of gallons of water per well - was never contemplated during preparation of the GEIS and, is, therefore, being addressed in the SGEIS. Map 4 shows the approximate area of interest in the Marcellus (roughly where the formation is 2,000 or more feet deep) and the Marcellus and Utica fairways, as mapped by the NYS Geologic Survey. A fairway is the area considered likely to produce economic quantities of gas.

Map 4 - Marcellus Wells (2008 Production) and Marcellus and Utica Shale Areas



Compliance and Enforcement

Inspections

In 2008 Oil and Gas staff traveled 95,672 miles to perform 2,445 well site inspections. Staff inspect well sites:

- during permit application review to check environmental and public safety issues;
- during drilling to check on well site construction and drilling permit compliance;
- during the operating phase to check for leaks, spills, or other potential problems;
- to ensure that well plugging and site reclamation meet requirements; and
- upon receipt of a well transfer request.

DEC staff perform follow-up inspections to ensure any violations are properly remediated.

Compliance Enforcement

Violations are handled with a mixture of enforcement tools, remediation requirements and penalties. In 2008 the Oil and Gas Program assessed \$10,500 in fines and penalties.

Permit Fees

Total oil and gas permit fees collected by the Division equaled \$908,090 in 2008, of which \$73,700 was deposited in the Oil and Gas Account; this fund is dedicated to plugging orphan and abandoned wells.



DEC Oil and Gas staff perform over 2,000 well inspections per year. Here the inspector is checking to make sure the well is in compliance before DEC approves transfer of the well to a new company.

State Land Leasing

At the end of 2008 the Division managed 91 leases covering roughly 63,591 acres of State land, a decrease from the previous year's 83,021 acres. The big drop was from expiration of 15 leases awarded at the 2003 lease sale. The roughly 20,000 acres of land involved could be offered for lease again in a future sale.

At year-end 2008 the State was earning royalties from 108 productive oil and gas wells physically located on State lands and another 118 producing wells on adjacent or unitized lands. These wells are associated with 61 State leases.

The 226 wells produced 17.8 bcf of natural gas and 4,819 bbl of oil. The average prices paid were \$8.95 per mcf for gas and \$89.13 per barrel of oil.

In 2008 the State received total leasing revenues of \$2.2 million, down 82% from \$11.8 million in 2007. The steep drop was due to the fact that no

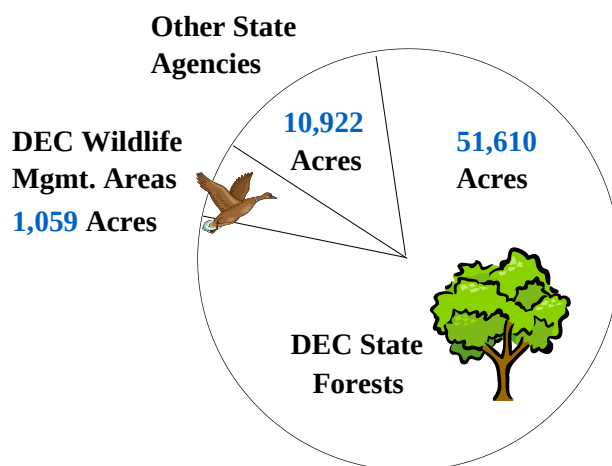
lease sale was held in 2008.

- **Delay Rentals** - Operators submitted a total of \$97,269 in delay rentals. This figure was down 42% from the \$166,868 collected in 2007.
- **Royalties** - The State received \$1,866,519 in royalty revenue from oil and gas production on 61 leases in nine counties (32,452 acres), down 24% from \$2,466,312 in 2007.
- **Storage Leases** - Fourteen storage leases added \$211,927, up 59% from 2007. The majority of New York's storage lease acreage is in Cattaraugus County.
- **Bonus Bids** - No bonus bids were received because there was no State land lease sale in 2008.

Table 7 - Total Leasing Revenues, 2003 - 2008

2003	\$5,326,927
2004	\$765,782
2005	\$3,439,670
2006	\$3,296,932
2007	\$11,767,813
2008	\$2,175,715

DEC Managed Oil and Gas Leases



For more information, see the 2008 Oil & Gas Leasing Report at <http://www.dec.ny.gov/energy/1579.html>

Plugging Permits and Bonds

2008 Plugged Wells and Bonds

At year-end DEC held \$24.7 million in financial security to guarantee well plugging and well site reclamation. This represented an increase of 7% from \$23.1 million in 2007.

At the end of production a well must be plugged with cement at proper intervals, the equipment must be removed, and all disturbed land, including the access road, must be reclaimed. In 2008 operators plugged 221 wells in accordance with requirements set by DEC in plugging permits.

Much of the plugging activity was in the old oilfields of western New York. Almost 78% of the plugging jobs were oil wells, 17% gas wells, and the remaining 4% a mix of other regulated well types.

Plugging occurred in 16 counties, however, almost 50% of the plugging jobs were in Allegany County and another 30% were in Cattaraugus County. The vast majority of plugging jobs involved old oil wells, particularly in the Richburg Field.

Financial Security, 2008

\$24.7 Million

**Table 8
Plugged Wells, 2008**

Oil	172
Gas	37
Other	12
Total	221

Some of this plugging activity can be attributed to the recent high prices for oil. During the process of redeveloping an old oilfield, operators may need to plug old or inactive wells.

Abandoned and Orphaned Wells

Old Historic Well Problems

Abandoned wells can leak oil, gas and/or brine; underground leaks may go undiscovered for years. These fluids can contaminate ground and surface water, kill vegetation, and cause public safety and health problems.

Historically, abandoned wells have been discovered in the woods, along roadsides, and in residential yards, playgrounds, and parking lots. They've even been discovered inside buildings, and underwater in wetlands, streams and ponds.

2008 Status Report

Abandoned, unreported and inactive wells continued to be a problem despite high oil and gas prices. In 2008 a total of 284 operators reported 3,071 wells with zero production. Another 133 unreported wells are considered abandoned. This is in addition to over 4,717 orphan wells in the Department's records. Enforcement actions have reduced the number of unreported wells, but their numbers remain significant.

DEC has at least partial records on 39,000 wells, but estimates that over 75,000 oil and gas wells have been drilled in the State since the 1820s. Most of the wells date before New York established a regulatory program. Many of these old wells were never properly plugged or were plugged using older techniques that weren't as reliable and long-lasting as modern methods.

Every year while conducting scheduled inspections or investigating complaints, DEC staff discover more abandoned wells. Extensive courthouse research is often required to identify a well's previous owners. Many of these cases take several years to resolve as DEC pursues legal action against the responsible parties.

Oil & Gas Account

New York has an Oil and Gas Account which was created to plug problem abandoned wells. It is funded by a \$100 per well permit fee; at the end of 2008 the balance was \$377,824. DEC has over 600 wells on its priority plugging list. Since the funds are insufficient to plug all the priority wells, DEC continues to pursue other mechanisms to plug abandoned wells.

DEC-Coordinated Plugging Efforts

In 2008 Division staff worked on Oil and Gas Account contracts for two major plugging projects involving abandoned oil wells. One was a \$190,000 contract to plug 45 wells on the Thornton-Bradley and Warfield leases in the Town of Alma, Allegany County. The wells were in an advanced state of disrepair. The plugging contract was formally approved in 2008, but field crews to perform the work could not be scheduled until the spring of 2009.

The other project involved a \$150,000 contract to plug 25 wells on the Knox Lease in Cattaraugus County. The wells were causing water supply contamination problems. Thirteen of the 25 wells on the Knox Lease were plugged in 2007 and the remaining 12 were plugged in early 2008. During the 2008 plugging activity, 4 other abandoned wells were discovered and subsequently plugged. For these 4 wells, the

Why Do We Keep Finding "New" Abandoned Wells ?

Most abandoned wells were drilled many decades ago so:

- they were not registered with the State and there are often no maps available;
- surface equipment is often gone that would make them easier to spot; and
- they may be hidden by thick underbrush, standing water, or other subsequent uses of the land.

Division used Environmental Benefit Project funds from an unrelated settlement with Bath Petroleum Storage, Inc.

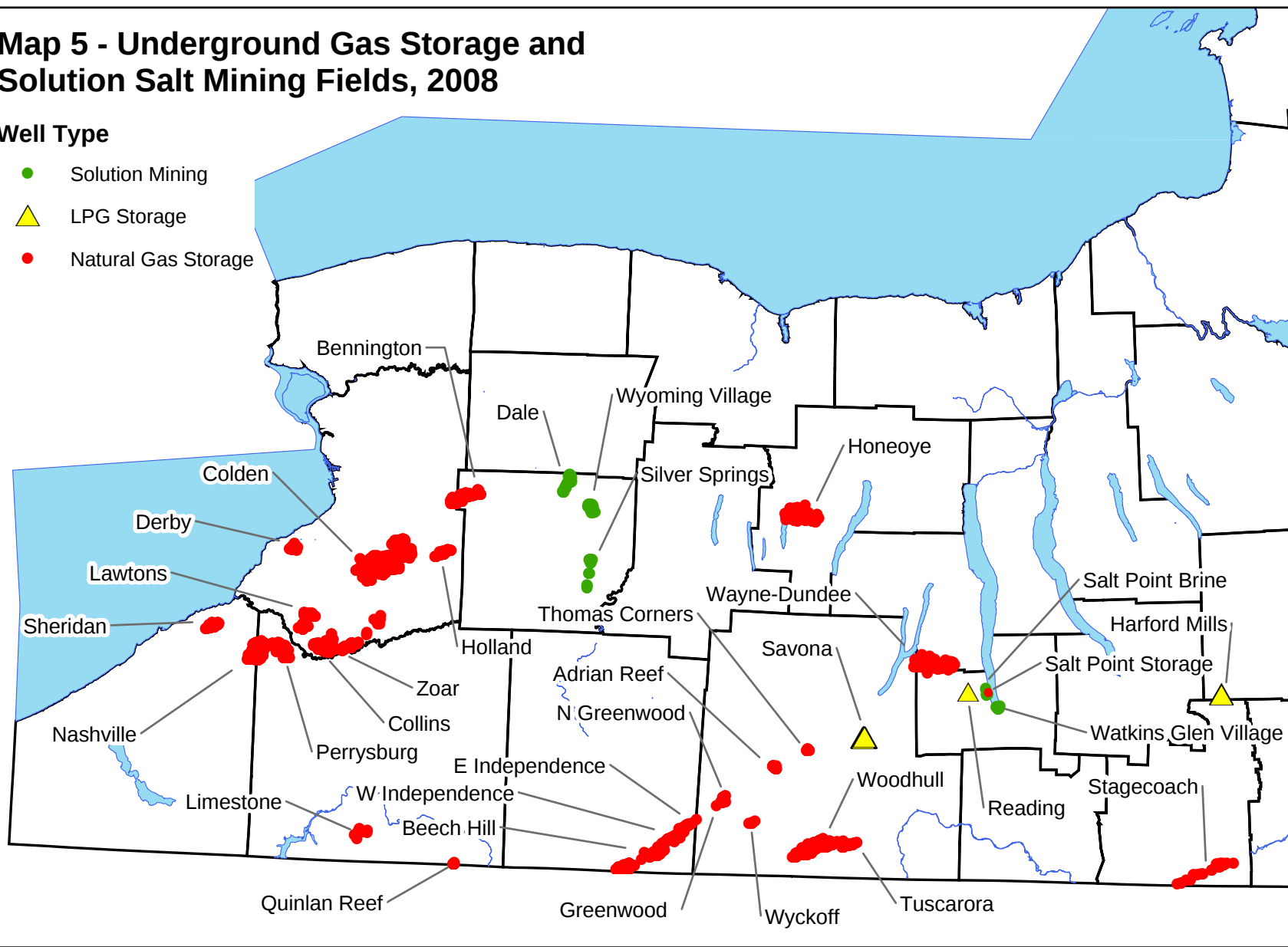
Division staff continued working with the U.S. Environmental Protection Agency (USEPA) and the U.S. Coast Guard (USCG) to plug wells with federal funds from the Oil Pollution Act of 1990. This money can be used for wells that leak oil or threaten to leak oil to the navigable waters of the United States.

As a direct result of DEC staff efforts, USEPA has undertaken several plugging projects in New York State. In 2008 USEPA focused on the Moore Lease in the Town of Bolivar, Allegany County. DEC had previously plugged the 43 highest-priority wells on the lease with a \$100,000 settlement from the estate, but lacked the funds to tackle the remaining 182 wells. In 2008 USEPA plugged 78 of the wells and agreed to continue the project in 2009. The abandoned and leaking wells on this lease had been the subject of DEC enforcement actions for decades.

Map 5 - Underground Gas Storage and Solution Salt Mining Fields, 2008

Well Type

- Solution Mining
- ▲ LPG Storage
- Natural Gas Storage



Underground Gas Storage

In 2008 there were 24 natural gas and 3 liquefied petroleum gas underground storage facilities operating in 10 counties in the western and central parts of New York State.

Natural Gas Storage

At year-end 2008 the combined total capacity of all the underground natural gas storage fields in New York State was 223.3 bcf and the maximum deliverability per day was 2.13 bcf. Working gas capacity was 112.7 bcf. Operators reported that these storage fields were 79% full at the end of the year, with 176.0 bcf in storage.

Seven different companies operate the 24 underground natural gas storage fields in New York State, with over half owned by National Fuel Gas Supply. Twenty-three of the facilities use depleted natural gas reservoirs in the Onondaga, Oriskany and Medina formations and the remaining one uses a solution-mined cavern in the Syracuse salt formation. These formations range in depth from 1,500 to 5,000 feet below the earth's surface.

In 2008 Division staff received an application for a permit modification for the Thomas Corners storage field in Steuben County. The facility was originally permitted by the Department in 1996, but was never placed in service. Ownership of the facility was transferred to Arlington Storage Company, LLC (ARS) in 2007. The Thomas Corners storage field is projected to be in service in 2009 after additional state and federal review and site construction.

Liquefied Petroleum Gas Storage

New York's three liquefied petroleum gas (LPG) underground storage facilities are located in Cortland, Steuben and Schuyler counties. At year's end Department records showed Inergy Midstream, LLC (Inergy) as the owner of the facility in Steuben County and TE Products Pipeline Company, LLC (TEPPCO) as the owner of the facilities in Cortland and Schuyler counties.

TEPPCO purchased the facility formerly owned by New York LP Gas Storage, Inc. (NYLPG) in Cortland County, and Division staff approved the transfer of the facility's underground storage permit in February 2007. At year-end 2008 total LPG capacity of the three facilities was 150.90 million gallons, while product in storage was 33.25 million gallons.

LPG is stored in underground caverns excavated in the shales of the Genesee Group at the TEPPCO facility in Schuyler County, and solution-mined out of the Salina Group salt formations at the other two facilities. The Salina Group salt formations are the same rock units mined by New York's five solution mining facilities.

In 2005 the Department and Bath Petroleum Storage, Inc. (BPSI) executed an Order on Consent regarding the LPG facility in Steuben County. As the current owner, Inergy assumed responsibility for BPSI's legal obligations, including the requirement to fund an Environmental Benefit Project to plug orphaned wells. By the end of 2008 Inergy had paid \$275,000 into a dedicated account.

Permit Applications

In 2008 Division staff were also engaged in reviewing four other permit applications submitted during previous years. The applications included three from National Fuel Gas Supply Corp. (NFGSC) and one from Inergy (originally submitted by BPSI).

In addition to conducting its own review of the underground natural gas storage projects, the Department routinely participates as a cooperating agency in the Federal Energy Regulatory Commission's (FERC) permitting process. Division staff provide input to FERC for Environmental Assessments and accompany FERC reviewers on site visits. However, FERC's jurisdiction is limited to interstate natural gas facilities, so FERC was not involved in the above-mentioned permit for Inergy's LPG project.

Solution Salt, Geothermal and Stratigraphic Wells

While oil and gas wells are the best known part of the Division's regulatory program, several other types of wells drilled in a similar fashion are subject to permit requirements. Solution mining wells have been drilled into New York's underground salt beds since the 1800s; the wells inject fresh water and bring up brine. Permits for solution mining wells include special drilling, operating and plugging requirements tailored to that industry.

The Division also regulates geothermal and stratigraphic wells over 500 feet deep. Geothermal wells play an important role in energy conservation. Stratigraphic wells provide essential information on underground rock formations and subsurface conditions.

Solution Salt

New York's five solution salt mining facilities, operated by U.S. Salt, Cargill, Morton, Texas Brine, and Occidental Chemical, produced 1.93 billion gallons of brine in 2008, a decrease of 2% from 2007. Three of the solution mining facilities are located in Wyoming County and the other two are in Schuylar County.

In 2008 solution mining operators submitted 12 drilling permit applications, compared to 13 applications in 2007. Seven solution mining wells were plugged in 2008.

The value of New York's solution salt mining production is estimated at over \$100 million. For years New York has ranked third nationally in total volume of salt production (combined brine and rock salt).

Geothermal

At year-end 2008 the State had 90 geothermal wells that required drilling permits from the Division of Mineral Resources because they were deeper than 500 feet. While a few deep geothermal wells can be found scattered around the Capital District, central New York and the Adirondacks, the majority are in the New York City area.

In 2008 the Division received 24 geothermal well

drilling applications and issued 22 permits, all in New York City or Westchester County.

Stratigraphic

The Division received 13 drilling permit applications for stratigraphic wells in 2008 and issued 12 permits before the end of the calendar year.

Uses for Geothermal Wells

Geothermal/geo-exchange wells regulated by DEC (deeper than 500 feet) have been drilled to heat and cool a wide range of buildings:

- Residential and Commercial Projects
- Education Center
- Fashion Design Studio
- Historic Buildings
- Library
- Lion House at the Bronx Zoo
- Museum/ Research Facility
- Religious Seminary

Carbon Capture and Storage

The Division of Mineral Resources did not receive any applications for carbon capture and storage or geologic sequestration projects in 2008. In fact no such projects currently exist in New York State. However, there is much industry, government and public interest in this concept as one possible means to reduce global warming from CO₂ generation and release.

Regional Partnership

The diversity of carbon dioxide (CO₂) sources and storage options throughout the country demands region-specific strategies. The U.S. Department of Energy has created a network of seven Regional Carbon Sequestration Partnerships to help develop the infrastructure and knowledge base needed to jump-start commercialization of CS technologies.

New York State is a member of the Midwest Regional Carbon Sequestration Partnership (MRCSP) which is composed of state agencies, universities, private companies and non-governmental organizations. The region includes New York, Ohio, Indiana, Kentucky, West Virginia, Maryland, Pennsylvania and Michigan. MRCSP is assessing carbon sequestration technologies suited to the region, identifying and evaluating appropriate storage locations, and raising awareness of CSS issues. The group is also investigating the recovery efficiencies of various CO₂ extraction and sequestration methods in an effort to reduce fuel use and lower project costs.

Work done in 2008 by the Division of Mineral Resources supported the efforts of other New York State agency members, including the New York State Energy Research and Development Authority and the New York State Museum.

New York's Potential

Once the CO₂ has been captured at its source and transported by pipeline, it would then be injected and stored safely in deep underground geologic

Important Terms

CO₂ is carbon dioxide.

Carbon Capture and Storage (CCS) means capturing CO₂ from large point sources, such as fossil fuel power plants, and storing it, primarily in geologic formations, instead of releasing it into the atmosphere.

Carbon Sequestration (CS) is the term for a broader class of techniques to capture and permanently sequester, or store, CO₂ through biological, chemical, or physical processes. It includes CCS defined above.

formations located more than a half mile below the earth's surface. In New York State saline (salt-water filled) formations show the greatest promise of providing suitable underground storage sites with the ability to adequately contain the CO₂. Not all reservoirs would be suitable, however. A formation's ability to accept the CO₂ at a sufficient injection rate is one of the primary considerations when siting a potential CCS project.

The wells needed to inject CO₂ into such reservoirs would be very similar to wells the Division of Mineral Resources already regulates at underground natural gas storage facilities. Environmental protection and public safety are the Division's focus in permitting the drilling, construction and operation of underground natural gas storage wells and facilities. The same in-depth review and oversight would be required for any proposed carbon sequestration project.

Technology - Making Our Information Easy to Use

Detailed Data at Your Fingertips

Visitors to our website can easily access data on both mines and wells through our searchable databases. The mining database, which went live in 2008, can be found at <http://www.dec.ny.gov/cfm/xtapps/MinedLand/>. You can search on over 20 different parameters and find information on over 3,700 mines and 1,800 mining-related companies. For the commodities parameter, choose from 30 different products to search (bluestone, sand and gravel, granite, etc.) and then further refine the search by county or town, mine name, operator name, or several other choices.

The searchable oil and gas database can be found at <http://www.dec.ny.gov/cfm/xtapps/GasOil/>. Here you can search over 39,000 wells and 1,000 oil and gas producing companies. The wells data covers company, well type, permitting and drilling history, well completion, objective and producing formations, field designations, spacing status and more. Search by geologic formation, find out how much oil or gas a well has produced, and even check the transfer history of the well.

You can also see all these wells and mines on a map using Minerals Mapper at <http://www.dec.ny.gov/imsmaps/minerals/viewer.htm>. This interactive site allows visitors to produce maps of regulated mines and wells, along with other major geographic features such as town boundaries, roads, railways, stream and lakes, etc.

The two searchable databases and the mapping system are updated nightly, so they always provide current information.

The Division of Mineral Resources has been a strong user of technology for years. In the early 1980s the Division began computerized tracking of the wells and mines we regulate. The system initially included information just on new permits, but has expanded over the years to include more than 39,000 wells dating back to the

1800s and close to 5,700 mines in operation since the Mined Land Reclamation Law's effective date of 1975. Early data management systems for both programs were developed in-house.

Since 1998 the Division has worked with the Ground Water Protection Council (GWPC), which is a nationwide organization that includes many oil and gas producing states. The GWPC works to promote groundwater protection and also provides technical assistance to member states. One project, developed with funds from the U.S. Department of Energy, is a common database platform called a Risk Based Data Management System (RBDMS). In 2001 the Division developed a similar RBDMS-type database for the Mined Land Reclamation Program. This way both of our regulatory databases are similar in their operation and features. These databases greatly assist our oversight of the respective industries. Increased efficiency provides Division staff with faster access to and more effective use of information for permit reviews and inspections.

Other Resources on our Website

Both the Mined Land site at <http://www.dec.ny.gov/lands/5020.html> and Oil and Gas at <http://www.dec.ny.gov/energy/205.html> have extensive information for regulated parties, local governments, and the public. Both industries can find guidance and resources related to the regulatory process. The public and local governments can also use the website to learn about the Division's environmental protection requirements. Kids and teachers can find fun educational information.

The Convenience of Electronic Reporting

Since 1990 the Division has accepted electronic submission of operators' annual well reports of gas and oil production. This is a time-saving convenience both for operators and Division staff. The Division is now working toward accepting electronically submitted permit applications.

2008 New York Mined Land Reclamation Program At a Glance

Active Mines
2,166

Approx. Value
\$1.3 Billion

U.S. Quantity Rank

Wollastonite	1st
Garnet	1st
Salt, Peat	3rd
Talc, Zinc	4th

Affected & Reclaimed Land

Net Affected Acreage	49,076
Life-of-Mine Acreage	119,183
Reclaimed, 2008	1,842
Reclaimed Since 1975	28,520

Common Mine Types

Sand & Gravel	1,734
Limestone	80
Bluestone	83
Sandstone	26

Owner Type

Industry	1,708
Government	458
- Local Govt.	444
- State Govt.	14

Financial Security

For Reclamation
\$167,506,136

Annual Regulatory Fees

\$2,837,900

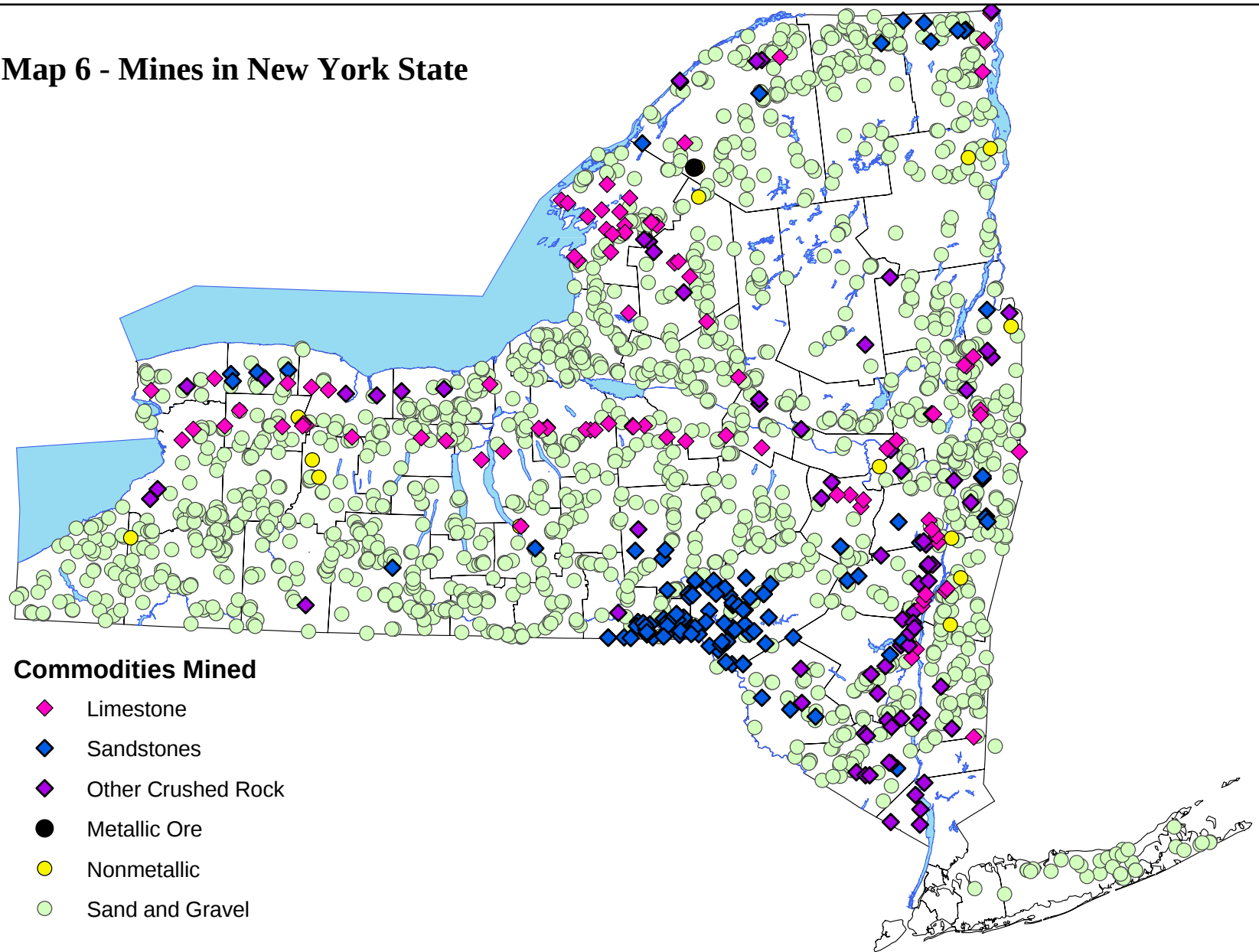
Regulated Vs. Unregulated Mines

DEC's statistics in this Annual Report cover only mines regulated under the Mined Land Reclamation Law. New York also has many unregulated mines (active & abandoned) that are not under the law's jurisdiction. Most of these are small mines and/or mines that predate the 1975 law.

A permit is required under the Mined Land Reclamation Law if the following is removed:

- ♦ More than 1,000 tons or 750 cubic yards of minerals in any 12 successive months
- ♦ More than 100 cubic yards of minerals in or adjacent to any waterbody not classified as "protected" by ECL Article 15.

Lands affected by mining before 1975 and not re-affected by later mining are exempt.



Mined Land Reclamation Program Overview

Types of Mines in New York

In 2008 New York had 2,166 active mines. The vast majority of these mines produced sand and gravel or other surficial deposits such as glacial till, clay or topsoil. There were 286 hardrock mines producing material ranging from bluestone, limestone, shale and salt, to less common products such as wollastonite and talc. Most of New York's hardrock mines are surface quarries, but there are a few permitted underground mines.

Permits Issued in 2008

Sand and gravel mines were the most common type of mine permitted in 2008 (see Table 9). The Division issued 37 permits for new mines and 585 renewals or modifications, for a total of 622 permits (see Table 10). The high number of permit modifications in 2008 was due to DEC's decision to standardize blasting requirements statewide by modifying permits for 158 mines.

Mining permits are issued for terms of five years or less and may be renewed. A renewal permit allows continued operation of the mine within approved limits. A modification permit authorizes changes, such as addition of processing equipment or expansion of the mine's surface area or depth beyond the original approved limits. Table 12 starting on page 33 gives a more detailed breakdown of permits by county.

Table 9 - New Mines, 2008	
Sand & Gravel	29
Clay	2
Dolostone, Limestone, Shale, Peat, Topsoil, Bluestone	1 each
Bluestone Exploration Authorization	7

Geographic Distribution of Mines

Map 5 on page 30 shows that mines can be found statewide; in 2008 there were active mines in 57 of New York's 62 counties. However, the map does not convey the relatively small percentage of the State's land surface devoted to mining.

The wide variation in county size means comparisons of the acreage under permit in each county can be misleading. For example, St. Lawrence, the State's largest county with an area of 1,718,848 acres, has an area 15 times larger than Rockland County. While St. Lawrence County had a relatively high total of 2,112 net affected acres under mining permit in 2008, that represented just 0.12% of the county's land. Table 11 ranks counties by the percent of their land surface under permit. It shows that mining activity is concentrated near heavily populated areas since they require larger quantities of mineral resources for roads and buildings.

In 2008 just 7 counties had more than 0.30% of their land surface under a mining permit (Albany, Dutchess, Genesee, Onondaga, Ontario, Rensselaer, Rockland) with a range of 0.30 to 0.41%. For most of the counties with active mines, less than 0.25% of their land was affected.

Table 10 - Permits, 2004 - 2008

	2004	2005	2006	2007	2008
New Permits	55	66	47	46	37
Renewals & Modifications	420	345	327	326	585*
Total Permits	475	411	374	372	622

*158 permit modifications were initiated by DEC to standardize blasting requirements.

← New Exploration Authorizations in 2008 for temporary bluestone sites that may become full-fledged permitted mines in the future.

Owner Type

In 2008 industry operated 1,708 mines or slightly over three-fourths of the mines in New York State.

In 2008 there were 49 county-owned mines and 395 belonging to towns, villages and other small local government entities. New York State agencies also operate 14 mines. Most of the government mines belong to highway departments which use the material for road maintenance.

In addition to owning roughly one-fifth of the mines in New York State, government agencies at

all levels purchase significant quantities of sand, gravel and other aggregates from commercial mines.

Annual Regulatory Fees

In 2008 the Division collected \$2,837,900 in annual regulatory fees. Acreage-based fees are collected for individual, industry and state-owned mines. County, town, village and other local government mines are exempt. The fees support the mined land regulatory program. Database enhancements now allow staff to more closely monitor payment histories, review compliance, and conduct fee enforcement.

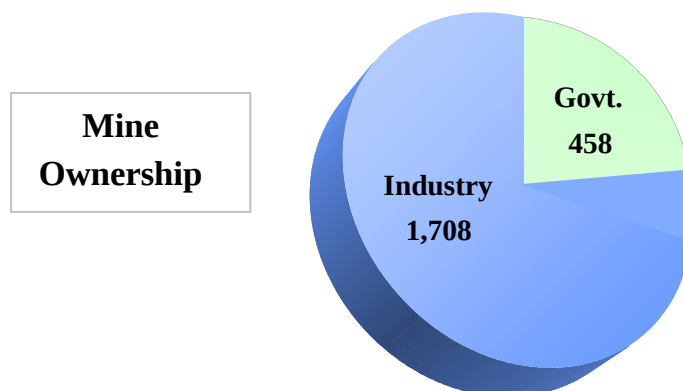


Table 11 - Counties with Highest Percentage of Land Under Mining Permit, 2008

County	Population Ctr. Nearby	Active Mines	Net Affected Acreage	Land Percent
Genesee	Buffalo	24	1,319	0.41%
Rensselaer	Capital/Tri-City	60	1,706	0.40%
Onondaga	Syracuse	41	1,991	0.39%
Ontario	Rochester	43	1,550	0.37%
Albany	Capital/Tri-City	18	1,210	0.35%
Rockland	New York City	4	433	0.34%
Dutchess	New York City	58	1,643	0.31%
Saratoga	Capital/Tri-City	62	1,591	0.29%

Table 12 - Number of Permits and Acreage by County, 2008

<u>County</u>	2008 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acre²</u>	<u>Number</u>	<u>Acre²</u>
Albany	0	0	18	1,211
Allegany	2	13	39	377
Broome	1	24	45	747
Cattaraugus	0	0	70	1,636
Cayuga	1	5	22	363
Chautauqua	1	2	55	448
Chemung	1	5	26	414
Chenango	1	4	38	693
Clinton	1	5	67	1,243
Columbia	0	0	37	1,001
Cortland	0	0	18	326
Delaware	1	7	69	809
Dutchess	1	7	58	1,643
Erie	3	18	52	1,981

<u>County</u>	2008 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acre²</u>	<u>Number</u>	<u>Acre²</u>
Essex	0	0	41	726
Franklin	3	20	73	686
Fulton	0	0	24	375
Genesee	1	5	24	1,319
Greene	0	0	23	1,022
Hamilton	0	0	21	142
Herkimer	0	0	49	1,298
Jefferson	0	0	78	1,857
Lewis	4	32	45	692
Livingston	0	0	23	992 ³
Madison	1	5	25	542
Monroe	0	0	12	570
Montgomery	0	0	8	564
Nassau	1	4	1	4

1 Regulated mines, but not bluestone exploration authorizations

2 Net affected acreage

3 Does not include underground acreage for salt mines
Livingston 603 acres, Tompkins and Seneca 9,000 acres

Table 12 - Number of Permits and Acreage by County, 2008 (continued)

<u>County</u>	2008 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acres</u> ²	<u>Number</u>	<u>Acres</u> ²
Niagara	0	0	16	703
Oneida	0	0	64	1,149
Onondaga	1	10	41	1,991
Ontario	0	0	43	1,551
Orange	0	0	44	789
Orleans	0	0	20	547
Oswego	1	10	106	1,638
Otsego	0	0	36	545
Putnam	0	0	3	68
Rensselaer	3	9	60	1,706
Rockland	0	0	4	433
Saratoga	1	3	62	1,591
Schenectady	0	0	9	238
Schoharie	0	0	17	520
Schuyler	0	0	12	274

<u>County</u>	2008 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acres</u> ²	<u>Number</u>	<u>Acres</u> ²
Seneca	0	0	5	358 ³
St. Lawrence	1	5	105	2,112
Steuben	1	31	84	1,940
Suffolk	1	7	36	1,123
Sullivan	1	5	31	1,021
Tioga	1	16	32	825
Tompkins	0	0	15	508 ³
Ulster	0	0	49	832
Warren	0	0	36	570
Washington	0	0	57	873
Wayne	2	18	42	1,013
Westchester	0	0	1	4
Wyoming	2	10	27	208
Yates	0	0	13	161

² Net affected acreage

³ Does not include underground acreage for salt mines
Livingston 603 acres, Tompkins and Seneca 9,000 acres

¹ Regulated mines, but not bluestone exploration authorizations

Trends in Mine Size and Number

Mine renewal and modification permits issued in 2008 ranged in size from 1 to 839 acres. However, new mines tend to be smaller; 85 percent of new mines permitted in 2008 were 10 acres or less in size. The largest new mine was the 68-acre Presho Sand & Gravel Mine in Steuben County.

Table 13 gives 2003-2008 size range information for all active mines. The number of large mines has been increasing over time, while the number of small mines has been decreasing. This is because many operators are expanding or combining existing mines rather than seeking permits for new ones.

The minor projects in the first row of the table are always less than 5 acres in size. They are subject to a simpler review process, but must comply with very strict criteria to be considered minor: minimum setbacks from homes and surface waters; a maximum 20-foot mine depth; no mining below water table; no hardrock (consolidated material) mining; and no on-site processing equipment, such as washing or crushing machines.

Mine Acreage Types and Statistics

Net Affected Acreage - Net affected acreage is the total affected acreage covered under successive mined land permits for the site minus the acreage reclaimed over the years. In 2008 the total affected land authorized for mineral extraction under current mined land reclamation permits was 49,076 acres.

Life-of-Mine Acreage - This is the total area that has been subject to DEC's environmental review. It covers acreage mined under past permits, the current permit, and acreage that the operator intends to mine under future permits. It also includes all reclaimed acreage at the site. In 2008 the statewide total for life-of-mine area was 119,183 acres.

Reclaimed Acres - In 2008 the Division approved final reclamation of 637 acres at 74 closed mines and concurrent reclamation of 1,205 acres at 97 operating mines. Table 14 on page 38 summarizes 2008 reclamation by county. Since 1975 a total of 28,520 acres of mined land have been reclaimed, including 1,842 acres reclaimed in 2008.

Table 13 - Range of Existing Mine Sizes, 2003 - 2008*

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>
Minor Projects	80	78	81	80	88	69
0 to 5 Acres	751	712	683	652	651	636
>5 to 10 Acres	549	532	531	531	509	493
>10 to 20 Acres	446	442	439	439	431	437
>20 to 30 Acres	172	179	179	169	166	171
>30 Acres	319	329	336	344	358	360
Total Mines	2,317	2,272	2,249	2,215	2,203	2,166

* Net Affected Acres

Reclamation and Financial Security

Reclaimed Land Uses

Final uses of mined land can vary considerably depending on location, size and depth of the site; surrounding land uses; and local zoning. Farmland and pasture are two of the most common reclamation objectives in New York State, but mined land is also reclaimed to residential, forestry, wildlife, recreational, commercial and industrial uses. Once the Division permits a proposed reclamation objective in a mined land reclamation plan, the mine operator needs a permit modification to change it.

Reclamation takes two forms based on timing of the work - concurrent or final. Concurrent reclamation is reclamation of an affected or mined-out area while resources are still being extracted from other parts of the mine site.

The Division strongly promotes concurrent reclamation, particularly for mines over 10 acres in size. Concurrent reclamation has a number of advantages. Chief among these are the reduced potential for negative environmental impacts (dust, erosion, sedimentation) and the improved perception of the mine by the surrounding community. See Table 14 on page 38 for a breakdown of reclamation type by county.

Financial Security

Municipal and other government operations are exempt from financial security requirements. However, mine operators from the private sector are required to post financial security to guarantee reclamation of their mines. At the end of 2008 the Division held roughly \$167.5 million in financial security, an increase of \$28 million from 2007.

In the rare case where a mine operator fails to reclaim a mine, the Division calls the financial security and reclaims the land. However, staff noted that bonding levels were not keeping pace with rising reclamation costs. In 2006 the Division studied the issue and adopted a more detailed system of assessing reclamation costs. Since 2006

the Division has used the new methodology to calculate the required bonds for all new permits, permit renewals, modifications and transfers. Reclamation estimates completed in 2008 averaged \$4,638 per acre. As more permits come up for renewal, the statewide average is expected to rise to \$5,000-\$6,000 per acre over the next few years.

DEC Reclamation of Abandoned Mines

In 2008 DEC Region 7 Division of Operations staff completed reclamation of the PA Stone Store Sanford Quarry in the Town of Sanford, Broome County. The mine was reclaimed using \$10,000 in financial security seized by the Division of Mineral Resources. The poor condition of the haul road made the site practically inaccessible to motorized vehicles and required significant work before reclamation could proceed. Operations staff started the reclamation project in 2007 and returned to the site to hydroseed and mulch the affected areas in 2008.



Region 7 DEC Operations staff reclaiming a mine with financial security funds seized by the Mined Land Program.

In 2008 Region 7 Operations staff also completed reclamation of the abandoned James Kolba-Kline Mine in the Town of Barker, Broome County. DEC seized the mine operator's \$20,000 in

financial security in 1994. In 2001 Central Office Mined Land staff surveyed the site and prepared a reclamation work plan and cost estimate. However, for various legal reasons the site remained unreclaimed. In 2008 Mined Land staff were finally able to bring the problem to a successful conclusion. A site meeting was held to discuss the project among Central Office and Region 7 Mined Land Staff, Region 7 Division of Operations staff and the landowner. Inspection of the site revealed that a significant portion of the land had revegetated naturally and was stable. While this is a rare occurrence, it reduced the size of the area that needed reclamation to only 3.5 acres. Central Office staff developed a revised work plan and determined that the \$20,000 available would be adequate to cover costs. The work was completed in October 2008.

2008 Reclamation Highlights

The R.T. Vanderbilt Company decided to close its talc/tremolite mines in St. Lawrence County in 2008. The closure requires reclamation of the Vanderbilt open pit mines located in the Towns of Fowler and Edwards. Region 6 Mined Land Staff conducted inspections throughout 2008 and found progress satisfactory. The company estimated that it will take a total of 6,000 hours of work to complete the necessary reclamation activities.

For many years New York State ranked fourth in the nation in talc production. Talc/tremolite is used primarily in making paint and ceramics. The first talc mine in the United States opened in 1878 on a farm near Talcville, which is in the same area as the mines that are now being reclaimed.

In 2008 work continued on Maya Lin's Wavefield Landform at the Storm King Art Center (SKAC) in Orange County. DEC approved this site-specific earthwork as an acceptable reclamation use of a former gravel pit on the grounds of the outdoor sculpture park. SKAC is home to more than 100 works by world-renowned artists.

In October Region 3 staff met with the contractor and landscape architect to review minor work that needed to be completed prior to a photo shoot for



R.T. Vanderbilt Talc Mine No.2 in the Town of Fowler, St. Lawrence County

a *New York Times* article that was published in November 2008.

Work began on constructing the wavefield in 2007. It consists of 12- to 18-foot high "earthen swells" in seven rows, each over 300 feet long. The undulating hills give the appearance of ocean waves that visitors can walk into. The hills were planted with native grasses and scheduled to open to the public in 2009, once the vegetation is sufficiently established.



The Wavefield near completion October 2008; the "waves" are 12 to 18 feet high.

Table 14 - Reclamation Acreage Summary by County¹, 2008

County	Concurrent	Final	Total
Albany	5.2	0	5.2
Allegany	15.2	52.1	67.3
Broome	23.2	107	130.2
Cattaraugus	373.2	13	386.2
Cayuga	0	26	26
Chautauqua	2.7	3	5.7
Chemung	10	0	10
Chenango	0	5	5
Clinton	9.8	3.3	13.1
Columbia	14.2	13	27.2
Cortland	40.2	8	48.2
Delaware	0	27	27
Dutchess	92	4	96
Erie	45.8	2	47.8
Essex	0	0	0
Franklin	8	3	11
Fulton	7.2	0	7.2
Genesee	4	0	4
Greene	8.7	0	8.7
Hamilton	0	4.3	4.3
Herkimer	10	2	12
Jefferson	17.3	10.7	28
Lewis	0	7	7
Livingston	0	23.1	23.1
Madison	0	0	0
Monroe	125	65	190
Montgomery	0	0	0
Niagara	66.5	0	66.5
Nassau	0	0	0

County	Concurrent	Final	Total
Oneida	21.8	12	33.8
Onondaga	29	6.3	35.3
Ontario	18.3	22	40.3
Orange	4.5	47.5	52
Orleans	3	0	3
Oswego	4	0	4
Otsego	9.6	22.6	32.2
Putnam	0	2	2
Rensselaer	15.4	23	38.4
Rockland	0	0	0
Saratoga	60.8	5	65.8
Schenectady	0	0	0
Schoharie	0	0	0
Schuyler	0	0	0
Seneca	0	0	0
St. Lawrence	41.3	11.4	52.7
Steuben	75.8	19.1	94.9
Suffolk	2	2.1	4.1
Sullivan	10	0	10
Tioga	0	17	17
Tompkins	0	0	0
Ulster	13.5	54	67.5
Warren	0	0	0
Washington	18	9.1	27.1
Wayne	0	6	6
Westchester	0	0	0
Wyoming	0	0	0
Yates	0	0	0

¹ Five counties that do not have DEC-regulated mines are not included in this table.

Compliance and Enforcement

Inspections

In 2008 Mined Land staff performed 2,417 mine inspections and traveled 89,964 miles. Staff inspect mine sites:

- during permit application review;
- during operation for general compliance;
- to ensure that violations are remediated;
- to ensure that reclamation meets requirements; and
- to investigate complaints.

Violations and Fines

Violations are handled with a mixture of enforcement tools, remediation requirements and penalties. In 2008 the Mined Land Program collected \$815,600 in fines and penalties for 44 cases.

Significant Legal Cases

In October 2007 Region 1 Mined Land staff discovered that 60,000 cubic yards of material had been illegally removed from the buffer area of a mine in the community of Kings Park, Town of Smithstown, Suffolk County. In 2008 a penalty of \$275,000 was assessed against the permittee. In addition, the operator must reclaim the affected area.

Region 1 Mined Land staff discovered that a mine in the Town of Brookhaven, Suffolk County, had been extended outside of the approved life-of-mine limits. The permittee agreed to a \$400,000 penalty, with \$100,000 payable and \$300,000 suspended if no further violations occur at the mine. The mineral resources at the site are exhausted and reclamation is required.

Region 1 staff aided an Assistant Attorney General in preparing an affidavit opposing a request from the Town of Riverhead for a Temporary Restraining Order in the Island Water Park case. The company requested a permit modification to create two lakes for water skiing when the mine is

reclaimed. This would be a significant change from the original plan approved in the permit. The Town of Riverhead requested lead agency status, but the Commissioner granted it to DEC, so the Town tried other legal measures to stop the review process.

At year-end 2008 Region 3 staff were negotiating a settlement with an operator over violations at mines in Dutchess and Rockland counties. At the Dutchess County site, broken slurry lines released sediment-laden water into the Hudson River. At the Rockland County mine there were also several violations associated with relocation of the settling ponds and primary crusher. The company overexcavated 26,000 cubic yards of material from the new crusher location. Numerous SPDES violations resulted in turbidity in the Hackensack River and disruption of the Village of Nyack water supply.

For over 20 years Region 6 has been involved with a landowner in the Town of Lawrence, St. Lawrence County for various violations including illegal mining and operating a solid waste facility without a permit. Several times in the past, cases brought against the landowner were either dismissed by local courts or very minor penalties were imposed. The most recent trial was finally convened in 2008, three and a half years after a search warrant was executed to gather evidence to confirm aerial surveillance. In the interim there were several adjournments, two failed attempts to seat a jury, and a change in venue.

Since several previous administrative actions had failed to resolve the violations at the site, this time Region 6 sought criminal charges. The landowner was charged with mining without a permit, operating a solid waste facility without a permit, and three additional solid waste violations. Unfortunately, during the trial the Assistant District Attorney was unable to have some important aerial photography entered into evidence. Subsequently, the landowner was found guilty of the solid waste violations, but not of mining without a permit.

2008 Mined Land Reclamation Program Highlights

Economic Assessment of NY Mining Industry

At the Fall 2008 New York Construction Materials Association meeting, Dr. Rochelle Ruffert of the Center for Governmental Research and Dr. William Kelly of the New York State Geological Survey presented the preliminary results of a study on the economic impacts of mining in New York State.

The latest U.S. Geological Survey estimate of the value of minerals produced in New York is \$1.3 billion. However, in this more detailed study, responses from just 91 survey participants showed an estimated economic impact from the mining industry of \$1.5 billion. Extrapolating this figure to include all permitted mines in the State, including indirect and multiplier effects, would yield an economic impact of several billion dollars. After the meeting Division staff provided Dr. Ruffert with additional information on active mines in the State.

Annual Underground Salt Mine Inspections

Department staff and a Geomechanics Specialist from John T. Boyd Company conducted the annual underground mine inspections of the American Rock Salt (ARS) Hampton Corners salt mine and the Cargill (Cargill) Cayuga salt mine. The State Geologist was also present at the inspections. Permit conditions require these detailed annual inspections to ensure DEC is aware of any potential problems.

During the site visits staff inspected the entries, crosscuts, faces, data collection points, and process galleries. At ARS all openings were stable and there was no sign of water flowing into the mine. At the Cargill site, a mine “panel” that had previously shown increased convergence rates was checked again, but no further deterioration was noted and the area was being backfilled.

For years New York has ranked third in the nation in salt production, based on the combined total of mined and solution-mined salt.

Adirondack Rock Fest

Central Office staff represented the Division at the first annual Rock Fest: A Celebration of Adirondack Geology. The event was held at the Adirondack Park Agency’s Newcomb Visitor Interpretive Center (VIC) on August 9. It was sponsored by VIC and the SUNY College of Environmental Science and Forestry Adirondack Ecological Center.

The event consisted of a series of presentations both at the VIC and at nearby rock outcrops, followed by a field trip to the old titanium mine at Tahawus. Division staff made a presentation on the everyday uses of minerals and gave an overview of the Mined Land Reclamation Program. Division members also staffed a display and answered many questions.

The program was quite successful for a first-time event. Over 100 people attended and at least 65 people went to each of the presentations.

NYCO Examines Wollastonite Options

A meeting was held on October 29, 2008, at the NYCO Minerals Willsboro office in Essex County. NYCO gave a presentation on depletion of wollastonite reserves at its two active quarries in the Town of Lewis; one mine is expected to be depleted in 5 years and the other in 20 years. New York State is home to the only commercial wollastonite production in the country.

When its New York reserves are exhausted, NYCO could rely solely on its large wollastonite mine in Mexico. However to avoid terminating its New York operations, NYCO is attempting to locate additional reserves. The possible acquisition of State Forest Preserve Lot #8, which adjoins the Lewis Quarry, is one option. Since Article 14 of the New York State Constitution prohibits the mining or exploration of State Forest Preserve lands, a constitutional amendment would be required to pursue this option.

Zinc Mine Closes Again

St. Lawrence Zinc, a subsidiary of HudBay Minerals, announced the closure of the Balmat underground zinc mine in the Town of Fowler, St. Lawrence County. Rising fuel costs and a steep drop in the price for zinc concentrate led to the decision.

For many years New York State ranked third or fourth in the country in zinc production. However, the mine has periodically closed and reopened over the last few years with fluctuating zinc prices. In April 2001 the Zinc Corporation of America closed the mine after zinc prices fell to 32 cents per pound. In April 2006 HudBay Minerals reopened the mine after zinc prices soared to a record of over \$2.00 per pound. However, in 2008 fuel prices rose significantly and zinc prices fell to around 70 cents per pound, necessitating closure of the mine.

Human Remains Identified at Mine

In February 2008 human remains were discovered during mining operations at the Full Cycle Soils mine in the Town of Phelps, Ontario County. Initially, the Ontario County Sheriff's Department and Ontario County Medical Examiner thought the bones were of recent origin. However, the skeletal remains were sent to a forensics anthropologist who determined that they were probably from two people, not one, and may have been from a Native American woman and her infant. The mine suspended operations until the NY State Office of Parks, Recreation, and Historic Preservation could make a determination whether additional investigation was necessary.

TCE-Contaminated Water at Mine

Dolomite Products submitted an application for the discharge of trichloroethylene (TCE)-contaminated water from the Leroy Quarry in Genesee County. The mine is not the cause of the contamination; TCE was spilled during an accident on the Lehigh Valley Railroad in 1970 and has slowly migrated underneath the mine. Fortunately, the level of contamination has

continued to drop over the decades.

Regional and Central Office staff met with the company to discuss the application for a State Pollutant Discharge Elimination System (SPDES) permit and DEC's concerns about the treatment and discharge plans. Staff review continues and a Draft Environmental Impact Statement is anticipated.

R.T. Vanderbilt Closing Three of Four Mines

R.T. Vanderbilt Company announced the closure of its two talc/tremolite mines in Balmat and one in Talcville, all in St. Lawrence County. A drop in market demand from over 200,000 tons per year in 1988 to around 80,000 tons in recent years led to the decision. The company plans to continue a small wollastonite mine in the Town of Diana, Lewis County. In 2008 roughly 105 people were employed at the company's Balmat mines and mills. See the reclamation section on page 37 for further information.

Bluestone Expo 2008

Central Office and Region 7 Mined Land staff attended the Bluestone Expo 2008 held March 29-30 in Binghamton, Broome County. The event was a joint effort of the New York and Pennsylvania bluestone industry organizations. Regulators, vendors, consultants, and financial institutions were present to answer questions and receive feedback from participants.

Division members staffed a display and interacted with the bluestone community. Attendance was down from the first Bluestone Expo in 2006, probably due to the economic conditions.

Mine Replaces Diesel Equipment

At the 154-acre Troy Sand and Gravel Mine in the Town of West Sand Lake, Rensselaer County, the company converted several major pieces of equipment from diesel power to natural gas and electricity. The company produces stone, sand and gravel at this site and also manufactures asphalt. The 1,000-watt diesel generator used for stone processing was changed to natural gas.

Diesel fuel used in drying and heating stone was also replaced by natural gas. In addition to making the operations at the site more energy efficient, the conversions were expected to reduce noise, odor, and air pollution.

Three Mine Fatalities in May 2008

The Division of Mineral Resources continues to support the work of the U.S. Mine Safety and Health Administration (MSHA) in their “Stay Out – Stay Alive” campaign. The program is aimed at educating children and adults about the dangers of trespassing on mine property for recreational purposes. Division staff distribute

MSHA’s educational materials at outreach events.

There continues to be a need for this type of information. In 2008 an 18-year old man died when he was camping out with friends in the inactive part of a limestone mine in Greene County. Also during 2008 workers at two different mines in northern New York were killed. One was a dozer operator constructing a new ramp at a mine in Jefferson County who was crushed under his equipment. The other fatality was in Saint Lawrence County when a man working in an underground mine was killed by a falling slab of rock. MSHA investigated all three deaths.



Former Mine Site Reclaimed to Farm Pond,
Town of Redhook, Dutchess County

2008 Fact Sheets

Products of

New York State Mines

New York State
Department of Environmental Conservation
Division of Mineral Resources
625 Broadway
Albany, New York 12233-6500

www.dec.ny.gov



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**Remember if it Can't be Grown
It has to be Mined !**

Important Products from New York Mines

What's in the Fact Sheets

Information in the fact sheets comes from two sources:

- The New York State DEC Division of Mineral Resources which regulates mining in the State. While the State has a permitting system with strong environmental controls, NYS law does not require mine operators to report production. The tables with DEC statistics showing the largest mines are useful, but note that mine acreage is not the sole predictor of mine output. Production levels are influenced by a number of factors, including market demand.
- The U.S. Geological Survey (USGS) which collects production information on a voluntary basis from a sampling of mines nationwide and publishes data on the each state's output and national rank. NOTE -The federal statistics are published on a staggered schedule, so the latest available USGS data given for a specific mineral may be from 2006 or 2007.

New York Production Rank for Important Minerals

USGS data for 2007 showed that New York State:

- remains the **only wollastonite producer in the U.S.**
- little is imported, so we **supply almost the entire country's wollastonite**
- NY ranks **third in the world in wollastonite production**, behind only China and India

In addition, for 2006 USGS reported that by production volume New York was:

- **first in industrial garnet**
- **third in salt and peat**
- **fourth in talc and zinc**

In 2006 New York was also ninth in dimension stone and tenth in clay. Other important New York minerals include bluestone, sandstone, granite, shale and slate.

Economic Value of NY Minerals

For 2006 USGS reported that, in dollar terms, crushed stone remained New York's leading non-fuel mineral within the State, followed by cement (portland and masonry), salt, construction sand and gravel, zinc and wollastonite. These six commodities accounted for nearly 97% of New York State's non-fuel mineral value, which USGS estimated at **\$1.33 billion** for 2006.



Sand and gravel mines are New York's most common type of mine with 1,734 active mines spread across the State. Suffolk, Dutchess and Rensselaer counties are among the leading producers of sand and gravel due to high quality glacial deposits in those counties and their proximity to large populations that require these materials for roads, buildings, and other infrastructure.

For 2006 USGS reported that New York produced 35 million metric tons worth \$236 million. Sand and gravel is New York's fourth most economically important non-fuel mineral. The majority of mines in the State that fall below the Mined Land Reclamation Law's permit thresholds are small sand and gravel pits.

Table 1 - Sand and Gravel Mines Over 125 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Callanan Industries	Rensselaer	North Greenbush	412
Country Side Sand & Gravel	Cattaraugus	Dayton	236
Hanson Aggregates NY, Inc.	Oswego	Sandy Creek	216
Frey Concrete, Inc.	Genesee	Alexander	191
Peckham Materials Corp.	Warren	Chester	183
F S Lopke Contracting, Inc.	Tioga	Tioga	177
Valley Sand & Gravel, Inc.	Livingston	Caledonia	172
Warren W. Fane, Inc.	Rensselaer	Schaghticoke	162
Lafarge North America, Inc.	Cattaraugus	Freedom	161
Coram Materials Corp..	Suffolk	Brookhaven	160
Hanson Aggregates NY, Inc.	Herkimer	Russia	160
Hanson Aggregates NY, Inc.	Ontario	Phelps	149
Buffalo Crushed Stone, Inc.	Cattaraugus	Machias	149
Buffalo Crushed Stone, Inc.	Cattaraugus	Farmersville	136
JML Quarries, Inc.	Sullivan	Mamakating	136

Table 1 - Sand and Gravel Mines Over 125 Permitted Acres, 2007 (Continued)

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Blades Construction Products	Steuben	Howard	135
Graymont Materials NY, Inc.	Clinton	Schuyler Falls	135
Hanson Aggregates NY, Inc.	Steuben	Bath	134
Material Sand & Gravel	Herkimer	Russia	134

Table 2 - Largest Sand and Gravel Mine Operators, Total Permitted Acres, 2007

<u>Company</u>	<u>Counties</u>	<u>Acres</u>
Hanson Aggregates NY, Inc.	Cattaraugus, Chemung, Genesee, Herkimer, Livingston, Monroe, Montgomery, Oneida, Ontario, Oswego, Steuben, Schuyler, Wayne	1,400
Graymont Materials NY, Inc.	Clinton, Essex, Franklin, St. Lawrence	478
Buffalo Crushed Stone, Inc.	Allegany, Cattaraugus, Genesee	475
Lafarge North America, Inc.	Cattaraugus, Erie, Wyoming	465
Dalrymple Gravel & Constructing	Chemung, Steuben	457
Gernatt Asphalt Products, Inc.	Erie, Cattaraugus, Chautauqua	450
FS Lopke Contracting, Inc.	Broome, Tioga	444
Callanan Industries, Inc.	Albany, Rensselaer	412
Cranesville Aggregate Co., Inc.	Columbia, Fulton, Jefferson, Saratoga, Schenectady	412
Elam Sand & Gravel Corp.	Livingston, Ontario, Steuben	362

New York Limestone & Dolostone

Limestone and dolostone make up the second biggest category of New York mines with 106 quarries located across the State. These mines produce roughly 90% of the stone sold in New York State. They collectively encompass 12,793 permitted acres, with nearly half of that acreage in DEC Region 4 (Mid-Hudson) and DEC Region 8 (west-central New York).

New York's most important products from these mines are crushed stone and cement, which are used predominantly in building and road construction and maintenance. Based on value, crushed stone is always New York's leading non-fuel mineral. USGS figures for 2006 show New York production of crushed stone was 52.1 million metric tons and the stone's value was \$435 million. While limestone and dolostone represent the vast majority of the State's crushed stone production, New York also produces crushed granite, marble, traprock, sandstone and quartzite.

USGS last published cement figures for New York in 2001 when the State produced almost 3 million metric tons of cement worth over \$230 million. In more recent USGS reports, New York figures are grouped with Maine, so a yearly update is no longer possible. Nonetheless, New York remains an active cement manufacturing state. The highest concentration of activity is in the upper Hudson Valley area where a relatively pure limestone is quarried from the Coeymans formation. Across the State limestone and dolostone mines may also sell some of their production in the form of blocks or slabs, which are categorized as dimension stone.

Table 3 - Limestone and Dolostone Mines Over 250 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Hanson Aggregates NY, Inc.	Onondaga	Dewitt	839
Lafarge N. American Cement	Albany	Coeymans	745
Buffalo Crushed Stone, Inc.	Erie	Lancaster	600
Tilcon, NY, Inc.	Dutchess	Poughkeepsie	458
Holcim US, Inc.	Greene	Catskill	318
Hanson Aggregates NY, Inc.	Livingston	Lima	289
Seneca Stone Corp.	Seneca	Fayette	282
Holcin US, Inc.	Columbia	Greenport	281
Hanson Aggregates NY, Inc.	Onondaga	Skaneateles	278

Table 3 (Continued) - Limestone & Dolostone Mines Over 250 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Buffalo Crushed Stone, Inc.	Genesee	Alabama	271
Lehigh Northeast Cement Co.	Greene	Catskill	267
Hanson Aggregates NY, Inc.	Jefferson	Pamelia	263
Hanson Aggregates NY, Inc.	Oneida	Marshall	258
Lehigh Northeast Cement Co.	Saratoga	Moreau	255
Callanan Industries, Inc.*	Monroe	Sweden	252

Table 4 - Largest Limestone & Dolostone Operators, Total Permitted Acres, 2008

<u>Company</u>	<u>Counties</u>	<u>Acres</u>
Hanson Aggregates NY, Inc.	Cayuga, Genesee, Herkimer, Jefferson, Livingston, Montgomery, Oneida, Onondaga, Ontario, Orleans, St. Lawrence, Wayne	3,393
Callanan Industries, Inc.*	Albany, Madison, Monroe, Montgomery, Ulster	1,110
Buffalo Crushed Stone, Inc.	Erie, Genesee	1,013
Lafarge N. American Cement	Albany	745
Tilcon NY, Inc.	Dutchess, Orange, Rockland	711
Barrett Paving Materials, Inc.	Herkimer, Jefferson, Lewis, St. Lawrence	652
Holcim US Inc.	Columbia, Greene	599
Redland Quarries NY, Inc.	Niagara	541
Dolomite Products Co., Inc.	Genesee, Monroe, Ontario, Wayne	538
Lehigh Northeast Cement	Greene, Saratoga	522
Cobleskill Stone Products, Inc.	Schoharie	300
Seneca Stone Corp.	Seneca	282

* Includes Callanan dba Iroquois Rock Products

New York Wollastonite

New York is the only commercial producer of wollastonite in the nation and thus the State's four mines, located in the Adirondacks, account for all U.S. production. Since only a relatively small quantity of wollastonite is imported into the U.S, this means New York supplies almost all of the wollastonite used in the country. On a global scale, New York is the third largest producer (behind China and India), accounting for around 20 percent of world output. A significant portion of New York's wollastonite is specially milled and/or surface treated to achieve specific industrial properties.

To protect proprietary data, USGS does not publish detailed statistics on wollastonite. However, USGS does quote industry experts who estimate that the country's, and therefore New York's, production was around 110,000 metric tons in 2007. According to the latest available USGS data, wollastonite was New York's sixth most valuable non-fuel mineral in 2006.

One of wollastonite's most unusual characteristics is its ability to cleave into needle-like (acicular) crystals. These fibrous particles make it useful both as an asbestos replacement and as reinforcement material in products ranging from plastics, ceramics and brake pads, to paint, coatings and sealants. As shown below, plastics are the major use of wollastonite in the U.S.

**U.S. End-Uses of
Wollastonite
2005**

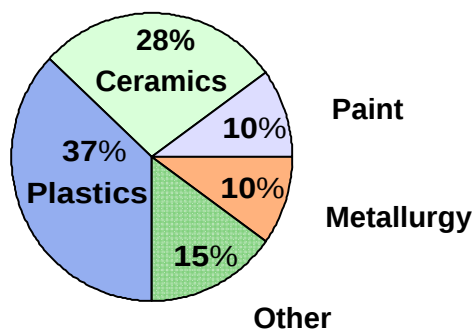


Table 5 - New York Wollastonite Mines, Permitted Acres, 2008

<u>Company & Mine</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
NYCO/ Oak Hill Mine	Essex	Lewis	127
NYCO/ Lewis Mine	Essex	Lewis	90
Gouverneur Talc/ No. 4 Mine	Lewis	Diana	36
NYCO/ Willsboro Mine	Essex	Willsboro	4

New York Garnet

USGS statistics for 2006 showed that New York State continued to rank first nationwide in industrial garnet production. Since there are just a few companies in the U.S. that produce industrial garnet, USGS does not publish details for individual mines. However, Barton Mines in Warren County is the largest U.S. garnet producer. NYCO Minerals in Essex and Lewis counties also produces small quantities of garnet at its wollastonite mines (see page 8).

Table 6 - New York Garnet Mine, Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Barton Mines Co., LLC	Warren	Johnsburg	107

Barton currently extracts garnet from its Ruby Mountain mine in Warren County. The company's nearby Gore Mountain mine, which opened in 1878 and ran until 1983, was the largest garnet mine in the world during its operation. Garnet is a well-known gemstone, but most New York garnets have too many imperfections to be used in jewelry.

Garnets from the company's current Ruby Mountain site make especially high-quality abrasives. Most New York garnet is used for sandpaper. USGS reported that 2007 end uses for garnet in the U.S. included waterjet cutting (35%), abrasive blasting media (30%), water filtration (15%), abrasive powders (10%), and other (10%).



Garnet boulder on display at the New York State Fair in Syracuse. The boulder was donated by the Barton Garnet Mine.

New York Salt

More than 10,000 square miles of central and western New York are underlain by the Salina formation which contains roughly 3.9 trillion metric tons of rock salt. In New York these salt deposits range in depth from 500 feet near Syracuse to 4,000 feet near the Pennsylvania/ New York border. This large salt resource has been economically important to the State for over 200 years. USGS statistics show that salt remains a valuable asset; within the State it consistently ranks as the third most economically valuable non-fuel mineral we produce. Nationally, New York ranks third in salt production. USGS statistics show that in 2007 New York produced 18% of the country's salt supply, up 6% from the previous year.

There are currently two active rock salt mines in New York: Cargill's Cayuga Mine centered around Cayuga Lake in Tompkins and Seneca counties, and American Rock Salt's Hampton Corners Mine in Livingston County. The Cargill mine is the larger of the two mines and also, at 2,300 feet, the deepest salt mine in the western hemisphere. Cargill leases the underwater land from the NY State Office of General Services and pays a royalty on its production. Virtually all the salt from this particular mine is sold as road deicing salt. However, salt also has a broad array of uses in food and chemical products. Salt is also produced from five solution mining facilities in Schuyler and Wyoming counties (see main body of Annual Report, page 26).

For 2007 the U.S. Geological Survey estimated New York's combined salt output from both underground mines and solution salt mining wells at roughly 8 million metric tons worth \$400 million. Subtracting New York's reported solution mined salt production for 2007 leaves estimated rock salt production at 5.65 million metric tons. This 30% jump in rock salt output for 2007 reflects a weather-related production increase as the winter need for salt surged across New England and the northern Midwest in 2007. The value of New York's rock salt in 2007 was roughly \$300 million.



Road salt is crucial to winter travel.

Table 7 - New York Underground Salt Mines, Permitted Acres, 2008

<u>Company</u>	<u>Counties</u>	<u>Acres*</u>
Cargill, Inc.	Seneca, Tompkins	9,260
American Rock Salt, Inc.	Livingston	672

* Note these are underground acres

New York Peat

In 2006 New York rose to third in the U.S. in the amount of peat produced. Peat is a light brown to black accumulation of partially decayed plants that forms in marshy areas when acid and anaerobic conditions prevent normal decay. Removal of peat from the ground raises issues similar to other mining activities and requires a mining permit under New York State Law.



Peat has been burned as a low-quality fuel throughout the centuries, but since the 1930s its use as a soil conditioner and horticultural material has grown steadily. Peat has historically been mined in every region of the state, but peat resources in southeastern New York attracted particular notice. In 1970 the U.S. Geological Survey studied 66 undeveloped peat deposits in the area and estimated they contained 11.5 million tons of air-dried peat. Upland peat deposits in this area averaged 5 to 15 feet in thickness and the lowland deposits were as much as 25 feet thick. Many peat mines in southeastern New York State have been reclaimed under the Mined Land Reclamation Law. At the moment there are 2 active peat mines in Columbia County and the state's 3 other existing mines are in Schenectady, Rensselaer and Cattaraugus counties.

Peat is added to fertilizers and soils and is used as mulch. It is also used as packing material for flowers and shrubs, beds for growing mushrooms, and even as a medium for growing earthworms. While the predominant uses are horticultural, peat is also used in industry as a filtration medium to remove toxic material from waste water, pathogens from sewage effluent, and suspended material from storm drain water. In its dehydrated form it's a highly effective absorbent for fuel and oil spills.

Table 8 - Peat Mines, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Mariaville Peat Company	Schenectady	Duanesburg	13
Gromax, LLC	Columbia	Gallatin	7
Gromax, LLC	Columbia	Ghent	6
Smith, Mark & Laurel	Cattaraugus	Dayton	5
Silkworth, J.B.	Rensselaer	Schodack	2



New York and Pennsylvania are the only sources of bluestone, a specific type of sandstone that can be split into thin slabs. Bluestone has been mined periodically in New York State since the mid-19th century when it was used for sidewalks, building veneer, stair treads and other construction applications. Nowadays, bluestone is also considered a high-end material for indoor floors, countertops, outdoor patios and other landscaping uses. Despite the name, bluestone can also be dusty gray, or tinged with red or green.

In 2008 there were 62 permitted bluestone mines in an area extending from Tompkins County on the west to Albany County on the east. The majority of the bluestone activity is in Delaware and Broome counties. In Broome County roughly 90% of the bluestone mines are in the towns of Windsor and Sanford, which border Pennsylvania. In Delaware County the majority of mines are in the western end of the county with the highest number in Hancock, a long-time core region of the bluestone industry. Bluestone mining is by nature a relatively small-scale operation. Around 20% of permitted bluestone mines are only one acre and 60% fall in the one- to five- acre range. Activity also tends to be seasonal, with most mines closed in the winter. According to the NY State Bluestone Association, the estimated market value of bluestone is roughly \$100 million per year.

Bluestone's rising popularity and expanding markets over the last decade led to reopening of old mines and the search for new deposits. Exploring for bluestone is more difficult than for many types of rock where a few well-placed core holes will yield useful information. High quality bluestone deposits tend to be limited in extent and discontinuous in nature, so it is not cost-effective to use core holes to locate new deposits. In addition, bluestone mining typically involves removing eight times more overburden (overlying material) than the quantity of useable bluestone.

In 2002 the New York State Legislature passed a Bluestone Exploration Authorization (EA) program that recognized the unique nature of the bluestone industry. Instead of going through the full mining permit application process, bluestone miners have the option of applying for a simplified one-year authorization to explore a potential bluestone site. This reduces the paperwork and financial burden for a mine that may be a failure, while at the same time allowing DEC to maintain adequate environmental control over the activity. The operator may also request a one-time, one-year renewal if additional exploration is required to assess the resource. When an EA expires, the operator must either apply for a regular mining permit, if the site is commercially viable, or reclaim the land. In 2008 there were 20 EAs in effect with 12 sites in Broome County, 6 in Delaware County, and 2 in Chenango County.

The operators with the largest mines under permit are shown in Table 10. In 2008 the companies with the highest number of mines were Johnston & Rhodes Bluestone (16), Tompkins Bluestone (4), Star Stone Quarries (2), Devonian Stone of NY (2), Fannie E. Kamp (2), and Damtown Stone and Drilling, Inc. (2). Recent high prices for bluestone have allowed many mine operators to switch from old-fashioned hand mining to modern techniques that rely on large motorized saws to cut blocks and slabs of bluestone.



A worker at a bluestone mine demonstrates how blue-stone can be broken into the slabs that make it such a popular landscaping and building material.

Table 9 - Bluestone Mines Over 15 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Herbert Kilmer	Broome	Sanford	33
Heldeberg Bluestone & Marble	Albany	Berne	30
Damascus 535 Quarry & Stone	Broome	Windsor	24
Eastern Materials, LLC	Ulster	Kingston	22
RCS, LLC	Delaware	Multiple Towns	18
Johnston & Rhodes Bluestone	Delaware	Masonville	16
Johnston & Rhodes Bluestone	Delaware	Hancock	15
Fannie E. Kamp	Broome	Sanford	15
Kenneth Decker	Broome	Conklin	15

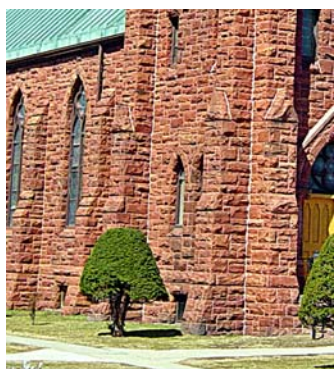
New York Sandstone

In 2008 there were 27 mines in New York producing sandstone which is found widely across the State. According to the latest USGS statistics available (2006), New York continued to rank second nationwide in the production of sandstone dimension stone (blocks and slabs) for building use, flag-stone and curbing; larger blocks are also sold for rip-rap to stabilize waterways and embankments. In 2006 New York State produced 37,300 metric tons of sandstone dimension stone valued at \$2,670,000. However, most of New York's sandstone production is in the form of crushed stone for aggregate.

Callanan Industries is the company with the most sandstone mines (5 in eastern New York). The highest concentration of permitted acreage for sandstone mining is in a roughly 40-mile long trend in Sullivan and Delaware counties (total 670 permitted acres).

Table 10 - Sandstone Mines Over 60 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Callanan Industries, inc.	Sullivan	Thompson	375
E. Tetz & Sons, Inc.	Sullivan	Thompson	161
Cobleskill Stone Products, Inc.	Delaware	Hancock	131
Shelby Crushed Stone Inc.	Orleans	Shelby	103
Callanan industries, Inc.	Rensselaer	Brunswick	76
Hanson Aggregates NY, Inc.	Orleans	Murray	68
Blades Construction Products	Steuben	Bath	64
Woodsfalls Industries	Clinton	Mooers	62



Potsdam Sandstone is a well-known type of sandstone found on many public buildings in New York State. In the 1800s it was lauded for its ability to withstand fire better than granite (less cracking and spalling). In fact its fire resistant properties were so well known, it was used to line furnaces.

New York Talc

The latest available USGS figures (2007) showed that New York ranked fourth in the country in the quantity of talc produced. Since there are so few talc producing companies in the country, USGS does not publish detailed production information. Gouverneur Talc is New York's only talc producing company, with overall land holdings of roughly 2,000 acres in the northwest Adirondacks. While the company has more than one mine with a current permit, most of its recent production has been from its #1 Mine, an open pit facility also known as the Arnold Mine. However, in 2008 the company permanently ceased talc production and started reclamation of the mine.

Table 11 - New York Talc Mines, Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Gouverneur Talc No. 1 & 2 Mine	St. Lawrence	Fowler	150

New York Zinc

New York has historically been a major zinc producer with one of the top 10 zinc mines in the country and a State rank of third or fourth in quantity of zinc produced. However, in 2001 the Pierrepont mine was permanently closed and reclaimed and the Balmat mine temporarily shut down. The Balmat mine reopened near the end of 2005. USGS data for 2006, the latest year available, showed that New York ranked fourth in zinc production in the country. Zinc is used to galvanize steel and protect it from rusting. It is also essential to making brass and bronze. In recent years the Balmat mine has been owned by St. Lawrence Zinc. The mine closed again temporarily in 2008, but the company hopes to reopen it when the price of zinc rises again.

Table 12 - New York Zinc Mines, Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
St. Lawrence Zinc	St. Lawrence	Fowler	432

New York Granite

In 2008 there were 22 granite mines operating mostly in the Adirondack and Taconic regions. Washington County, with 9 mines, has the highest concentration of this type of mine in New York State. Granite has long been used for statues, gravestones and building exteriors. Recently, it has also become very popular for kitchen countertops and other decorative interior uses. Some of the large granite mines in New York State also produce crushed stone for construction use.

The number of permitted granite mines in the State has more than doubled since 2003. Some of this growth occurred as sand and gravel mine operators decided to dig deeper and switch to mining the granite bedrock underneath. Since 2003 former sand and gravel mines in four Adirondack counties and two mines in Dutchess County have started producing granite.

Most New York granite mines are aboveground, but Wingdale Material's underground mine in Dutchess County supplies crushed granite for roads and other construction needs. In 2007 the company finished moving its rock crushers belowground; this decreased the mine's noise and visual impacts and increased aboveground storage space for materials.

Table 13 - Granite Mines Over 20 Permitted Acres, 2008

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Peckham Materials Corp.	Warren	Chester	117
Pompa Brothers, Inc.	Saratoga	Greenfield	103
Hanson Aggregates NY, Inc.	Oneida	Forestport	100
Graymont Materials NY, Inc.	Franklin	Brandon	77
Peckham Materials Corp.	Saratoga	Greenfield	75
Delaney Crushed Stone	Fulton	Northampton	67
Graymont Materials NY, Inc.	Essex	Lewis	62
Wingdale Materials, LLC	Dutchess	Dover	60
Thalle Industries, Inc.	Dutchess	Fishkill	46
Graymont Materials NY, Inc.	Essex	St. Armand	45
Lake Placid Granite Co.	Essex	Jay	45

**New York State
Oil, Gas and Mineral Resources
2008**

Appendix 1 – Oil & Gas Data

**New York State
Department of Environmental Conservation
Division of Mineral Resources
625 Broadway
Albany, New York 12233-6500**

www.dec.ny.gov



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DIVISION OF MINERAL RESOURCES
OIL AND GAS STATISTICS ¹
(1999 - 2008)

Annual Production	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Oil (1,000 bbl)	193	181	183	179	157	184	211	319	387	397
Gas (mmcf)	16,836	17,808	28,020	37,133	36,025	46,948	55,156	55,342	54,916	50,320
Well Statistics										
Oil	3,463	2,962	3,373	3,106	3,117	3,153	2,767	3,190	3,559	3,617
Gas	5,756	5,775	5,949	5,773	5,906	6,076	5,957	6,213	6,683	6,675
Inactive Oil	1,165	1,340	1,416	1,343	1,547	1,640	1,401	1,373	1,264	1,527
Inactive Gas	583	850	843	929	832	886	781	839	640	912
Storage	885	870	877	905	908	908	932	936	945	952
Active Brine	87	93	94	96	106	113	96	98	123	131
Inactive Brine	57	61	52	51	38	17	40	35	9	11
Water Injection	223	667	568	434	683	656	460	517	498	467
P&A (During Year)	138	131	79	146	142	145	150	213	192	221
Number of Wells	12,357	12,749	13,251	12,783	13,279	13,594	12,584	13,414	13,913	14,513
Drilling & Completions										
1. Total Wells Spudded	101	128	139	109	137	181	314	540	517	562
2. Total Wildcats	23	22	15	40	35	53	31	41	53	69
3. Discoveries	6	129	123	60	60	126	199	369	450	413
Oil Wildcat	0	0	0	0	1	0	0	0	0	3
Gas Wildcat	7	9	4	10	10	14	17	17	35	45
4. Total Dry Holes	21	16	24	32	25	28	18	7	25	21
5. Oil										
Development	25	17	25	17	28	56	93	174	179	163
Extension	0	0	0	0	0	0	2	2	0	0
6. Gas										
Development	15	98	80	28	19	40	82	165	224	186
Extension	6	5	14	5	3	16	5	11	12	16
7. Injection	0	0	0	0	0	0	2	2	19	4
8. Disposal	0	0	0	0	0	0	0	0	0	0
9. Stratigraphic	6	1	1	1	15	9	0	24	0	7
10. Service	0	0	0	0	0	0	0	0	1	0
11. Brine	7	13	15	10	11	15	14	19	14	15
12. Storage	0	0	5	15	3	1	4	16	3	5
13. Geothermal	0	0	6	1	6	6	14	11	14	31
13a. Suspended wells ²						3	10	5	8	4
14. Total Completions	87	159	174	119	121	188	261	453	534	500
(3,4,5,6,7,8,9,10,11,12, 13, 13a)										
Footage (1,000's) Vertical Wells ³	261	534	608	266	248	394	673	1,116	1,198	1,173
Deviated Wells ³	43	88	99	93	91	272	238	327	247	193
15. Total Footage Drilled	304	622	707	359	339	666	911	1,443	1,444	1,366
Proven Reserves at Year End										
Gas (mmcf)										
A. In Situ	65,160	96,273	174,014	307,214	163,559	208,707	190,300	212,766	260,456	303,606
B. In Storage Reservoirs	157,210	147,313	164,313	162,099	176,936	161,732	169,290	183,316	180,986	176,407
C. Total	222,370	243,586	338,327	469,313	340,495	370,439	359,590	396,082	441,442	480,013
Oil (1000 bbls)										
	846	783	1,189	1,069	1,066	1,056	1,205	1,910	2,550	2,960

¹ Statistics for lines 2 - 15 are based upon received completion reports from the operators.

² Suspended wells: wells drilled to TD but completion category not yet determined.

³ Footage drilled data revised for 2004 - 2006

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Allegany County									
Alfred	0	0	0	0	2	0	0	0	0
Allen	1,946	0	25	1	1	0	0	0	0
Alma	13,364	4,474	765	25	0	176	69	1	41
Almond	1,234	0	0	1	0	0	0	0	0
Amity	36,364	303	186	2	2	15	2	0	0
Andover	42,551	8,154	3,208	2	14	139	35	0	11
Angelica	532	0	0	1	0	0	0	0	0
Bolivar	495	4,840	3,484	0	8	257	476	16	85
Centerville	0	0	0	0	1	0	0	0	0
Clarksville	350	984	307	0	0	19	38	0	26
Cuba	0	0	0	0	0	0	0	0	0
Friendship		16	26	0	0	1	0	0	0
Genesee	924	1,632	5,583	4	6	51	135	1	71
Granger	532	0	0	1	0	0	0	0	0
Hume	0	0	0	0	0	0	0	0	0
Independence	185,548	21,751	7,375	5	1	306	8	12	0
New Hudson	0		0	0	1	0	0	0	0
Rushford	500	0	0	3	1	0	0	0	0
Scio	6,717	378	465	3	3	89	141	14	42
Ward	210		0	3	0	0	0	0	0
Wellsville	4,084	3,457	396	0	0	73	67	0	18
West Almond	0	0	0	0	0	0	0	0	0
Willing	0	771	24	1	1	11	31	0	0
Wirt	30	600	741	0	3	92	70	0	0
County Total	295,381	47,360	22,585	52	44	1,229	1,072	44	294
Broome County									
Fenton	0	0	0	0	0	0	0	0	0
Kirkwood	0	0	0	0	0	0	0	0	0
Triangle	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	1	0	0	0	0
Cattaraugus County									
Allegany	374,529	163,062	617,130	6	1	876	195	65	22
Ashford	3,016	0	0	10	2	0	0	0	0
Carrollton	105,273	86,848	38,041	4	0	664	84	9	11
Cold Spring	0	0	0	0	5	0	0	0	0
Conewango	154,966	0	0	79	0	0	0	0	0
Dayton	111,497	47	3	59	4	0	0	0	0
East Otto	24,685	0	287	10	0	0	0	0	0
Ellicottville	2,541	0	0	10	2	0	0	0	0
Farmersville	200	40	120	2	0	4	0	0	0
Freedom	1,823	0	23	7	1	0	0	0	0
Great Valley	0		0	1	0	0	0	0	0
Hinsdale		21	0	0	0	4	0	0	0
Leon	172,281	0	80	86	2	0	0	0	0
Little Valley	0		0	1	0	0	0	0	0
Machias	100	0	0	1	0	0	0	0	0
Mansfield	0	0	0	1	0	0	0	0	0
Napoli	853	0	0	2	0	0	0	0	0
New Albion	13,350	0	0	11	6	0	0	0	0

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Cattaraugus County									
Olean	4,490	24,846	1,393	5	0	148	63	0	5
Olean City	0	0	0	0	1	0	0	0	0
Otto	57,616	101	31	69	1	1	0	0	0
Perrysburg	277,428	0	1,567	37	9	0	0	0	0
Persia	131,049	0	4	45	58	0	0	0	0
Portville	0	25	0	1	0	5	0	0	0
Randolph	50,065	409	0	74	11	1	0	0	0
South Valley	795	0	0	2	0	0	0	0	0
Yorkshire	107,047		155	5	0	0	0	0	0
County Total	1,593,604	275,399	658,834	528	103	1,703	342	74	38
Cayuga County									
Auburn City	256	0	0	1	0	0	0	0	0
Aurelius	374,049	0	7,149	145	1	0	0	0	0
Cato	0	0	0	0	1	0	0	0	0
Conquest	0		0	0	0	0	0	0	0
Fleming	64,897	0	2,957	34	2	0	0	0	0
Ledyard	1	0	0	2	0	0	0	0	0
Owasco	0	0	0	1	2	0	0	0	0
Scipio	0	0	0	1	0	0	0	0	0
Sempronius	0	0	0	0	0	0	0	0	0
Sennett	207	0	193	2	3	0	0	0	0
Springport	393,159	0	10,058	115	3	0	0	0	0
Summerhill	0	0	0	0	1	0	0	0	0
Throop	5,718		0	9	0	0	0	0	0
Venice	0	0	0	0	0	0	0	0	0
County Total	838,287	0	20,357	310	13	0	0	0	0
Chautauqua County									
Arkwright	95,639	0	1,756	120	7	0	0	0	0
Busti	340,675	28,635	4,278	129	16	424	76	0	0
Carroll	180,751	0	101	69	6	0	3	0	0
Charlotte	233,386	432	4,150	117	14	2	0	0	0
Chautauqua	512,103	0	1,028	324	9	0	0	0	0
Cherry Creek	212,448	0	1,119	113	13	0	0	0	0
Clymer	162,112	1,461	810	108	22	5	1	0	0
Dunkirk	72,769	0	105	37	5	0	0	0	0
Dunkirk City	10,784	0	15	6	1	0	0	0	0
Ellery	248,091	568	4,607	121	9	15	3	0	0
Ellicott	230,205	0	1,058	68	3	0	1	0	0
Ellington	282,814	0	250	173	8	0	0	0	0
French Creek	32,470	0	55	53	11	0	0	0	0
Gerry	418,889	7,965	7,432	146	25	18	2	0	0
Hanover	475,825	0	4,652	141	3	0	0	0	0
Harmony	215,231	1,278	9,815	113	20	0	0	0	0
Jamestown	4,846	0	33	4	0	0	0	0	0
Kiantone	419,361	0	261	81	1	0	0	0	0
Mina	66,010	0	1,972	74	3	0	0	0	0
North Harmony	404,475	4,250	44,847	155	11	15	3	0	0
Poland	609,136	1,058	1,217	154	3	0	2	0	0
Pomfret	186,163	0	918	178	16	0	0	0	0
Portland	226,384	0	470	148	9	0	0	0	0

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Chautauqua County									
Ripley	198,118	0	1,352	179	9	0	0	0	0
Sheridan	136,297	0	943	89	14	0	0	0	0
Sherman	121,429	285	3,292	88	3	1	0	0	0
Stockton	153,139	0	916	119	4	0	0	0	0
Villanova	94,804	0	1,966	85	6	0	0	0	0
Westfield	413,715	0	1,193	264	14	0	0	0	0
County Total	6,758,069	45,932	100,611	3,456	265	480	91	0	0
Chemung County									
Baldwin	782,348	0	6,244	1	0	0	0	0	0
Big Flats	2,737,774	0	3,523	4	1	0	0	0	0
Catlin	2,031,076	0	4,072	9	2	0	0	0	0
Elmira	0	0	0	0	1	0	0	0	0
Elmira City	2,775	0	0	1	0	0	0	0	0
Erin	1,805,260	0	21,750	5	2	0	0	0	0
Horseheads	20,538	0	0	0	0	0	0	0	0
Southport	2,717,596	0	56,813	4	2	0	0	0	0
Van Etten	3,938,206	0	5,548	12	2	0	0	0	0
Veteran	1,590,703	0	35,472	4	5	0	0	0	0
County Total	15,626,276	0	133,422	40	15	0	0	0	0
Chenango County									
Coventry	0	0	0	0	0	0	0	0	0
McDonough	0	0	0	0	0	0	0	0	0
Oxford	0	0	0	0	0	0	0	0	0
Plymouth	92,887	0	2,431	2	0	0	0	0	0
Preston	0	0	0	0	3	0	0	0	0
Smyrna	334,722	0	5,356	8	2	0	0	0	0
County Total	427,609	0	7,787	10	5	0	0	0	0
Cortland County									
Homer	0	0	0	0	1	0	0	0	0
Scott	0	0	0	0	1	0	0	0	0
Virgil	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	3	0	0	0	0
Delaware County									
Hancock	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	1	0	0	0	0
Erie County									
Alden	59,561	0	78	56	10	0	0	0	0
Amherst	0	0	0	0	2	0	0	0	0
Aurora	34,588	0	0	41	22	0	0	0	0
Boston	11,808	0	79	32	7	0	0	0	0
Brant	141,295	0	520	103	12	0	0	0	0
Buffalo	601	0	0	1	4	0	0	0	0
Cheektowaga	7,640	0	4	11	3	0	0	0	0
Clarence	201	0	1	6	2	0	0	0	0
Colden	2,910	0	0	8	14	0	0	0	0
Collins	303,771	0	3,746	54	9	0	1	0	0

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Erie County									
Concord	193,379	0	2,240	70	20	0	0	0	0
Eden	97,870	0	1,299	144	10	0	0	0	0
Elma	67,781	0	180	49	12	0	0	0	0
Evans	109,863	0	530	90	18	0	0	0	0
Hamburg	40,051	0	53	44	36	0	0	0	0
Holland	0	0	0	3	0	0	0	0	0
Lackawanna	1,037	0	0	3	1	0	0	0	0
Lancaster	51,676	0	69	27	30	0	0	0	0
Marilla	35,391	0	0	32	6	0	0	0	0
Newstead	112,859	0	247	55	19	1	0	0	0
North Collins	224,149	0	2,167	97	17	0	0	0	0
Orchard Park	33,038	0	0	34	30	0	1	0	0
Sardinia	401,592	0	5,947	17	2	0	0	0	0
Tonawanda	0	0	0	0	1	0	0	0	0
Tonawanda City	0	0	0	1	1	0	0	0	0
Wales	4,149	0	0	8	10	0	0	0	0
West Seneca	26,455	0	0	3	5	0	0	0	0
County Total	1,961,665	0	17,160	989	303	1	2	0	0
Genesee County									
Alabama	16,974	0	65	19	2	0	0	0	0
Alexander	44,484	0	438	42	0	0	0	0	0
Batavia	40,366	0	515	39	2	0	0	0	0
Bergen	13	0	0	3	0	0	0	0	0
Bethany	18,885	0	955	29	2	0	0	0	0
Darien	408,533	0	2,052	224	10	0	0	0	0
Elba	878	0	0	2	0	0	0	0	0
Le Roy	3,661	0	104	8	4	0	0	0	0
Oakfield	16,795	0	135	12	0	0	0	0	0
Pavilion	15,084	0	281	20	4	0	0	0	0
Pembroke	201,357	0	707	126	2	0	0	0	0
Stafford	2	0	0	1	1	0	0	0	0
County Total	767,032	0	5,252	525	27	0	0	0	0
Herkimer County									
Stark	0	0	0	0	0	0	0	0	0
County Total	0	0	0	0	0	0	0	0	0
Livingston County									
Avon	26,257	0	273	16	2	0	0	0	0
Caledonia	41,718	0	485	48	2	0	0	0	0
Groveland	0	0	0	0	1	0	0	0	0
Leicester	21,238	0	0	16	8	0	0	0	0
Nunda	0	0	0	0	1	0	0	0	0
Ossian	0	0	0	0	1	0	0	0	0
Portage	1,667	0	0	1	1	0	0	0	0
Sparta	0	0	0	2	0	0	0	0	0
West Sparta	200	0	0	6	0	0	0	0	0
York	26,731	0	2,368	49	3	0	0	0	0
County Total	117,811	0	3,126	138	19	0	0	0	0
Madison County									

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Madison County									
Eaton	4,746		200	5	1	0	0	0	0
Lebanon	602,561		6,004	37	2	0	0	0	0
Stockbridge	0	0	0	0	1	0	0	0	0
County Total	607,307	0	6,204	42	4	0	0	0	0
New York County									
Manhattan	0	0	0	0	0	0	0	0	0
County Total	0	0	0	0	0	0	0	0	0
Niagara County									
Lewiston	15		0	1	0	0	0	0	0
County Total	15		0	1	0	0	0	0	0
Oneida County									
Sangerfield	125	0	0	1	2	0	0	0	0
County Total	125	0	0	1	2	0	0	0	0
Onondaga County									
Lysander	0		0	1	0	0	0	0	0
Marcellus	0	0	0	0	7	0	0	0	0
Spafford	0	0	0	0	1	0	0	0	0
Tully	0	0	0	0	0	0	0	0	0
County Total	0	0	0	1	8	0	0	0	0
Ontario County									
Bristol	0	0	0	2	1	0	0	0	0
Canandaigua	0	0	0	1	1	0	0	0	0
East Bloomfield	38,358	0	7	15	2	0	0	0	0
Geneva	0	0	0	0	2	0	0	0	0
Geneva City	0	0	0	0	1	0	0	0	0
Gorham	0	0	0	0	1	0	0	0	0
Hopewell	0	0	0	0	0	0	0	0	0
Phelps	0	0	0	0	1	0	0	0	0
Richmond	419		0	1	0	0	0	0	0
Seneca	0	0	0	0	0	0	0	0	0
West Bloomfield	2,140	0	0	2	0	0	0	0	0
County Total	40,917	0	7	21	9	0	0	0	0
Oswego County									
Richland	0		0	1	0	0	0	0	0
Schroeppel	0	0	0	0	1	0	0	0	0
West Monroe	0		0	1	0	0	0	0	0
Williamstown	302		0	1	0	0	0	0	0
County Total	302	0	0	3	1	0	0	0	0
Otsego County									
Cherry Valley	0	0	0	0	1	0	0	0	0
Springfield	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	2	0	0	0	0
Schuyler County									

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Schuyler County									
Dix	74,694	0	3,549	4	2	0	0	0	0
Hector	0	0	0	0	2	0	0	0	0
Orange	968,888	0	5,614	9	2	0	0	0	0
Reading	17,365	0	1,822	4	1	0	0	0	0
Tyrone	0	0	0	0	1	0	0	0	0
County Total	1,060,947	0	10,985	17	8	0	0	0	0
Seneca County									
Fayette	1,183,044	0	60,288	130	2	0	0	0	0
Junius	10,665	0	0	3	2	0	0	0	0
Seneca Falls	77,771	0	4,134	9	2	0	0	0	0
Tyre	5,303	0	0	3	0	0	0	0	0
Varick	330,165	0	8,548	47	0	0	0	0	0
County Total	1,606,948	0	72,970	192	6	0	0	0	0
Steuben County									
Avoca	481	0	0	2	0	0	0	0	0
Bath	125,160	0	35	3	0	0	0	0	0
Bradford	957,482	0	646	4	1	0	0	0	0
Cameron	0	0	0	0	0	0	0	0	0
Campbell	1,332,901	0	1,294	4	2	0	0	0	0
Canisteo	0	0	0	0	1	0	0	0	0
Caton	4,854,229	0	9,370	7	1	0	0	0	0
Cohocton	70,311	0	90	4	0	0	0	0	0
Corning	6,439,906	0	15,120	11	2	0	0	0	0
Erwin	3,286	0	0	1	1	0	0	0	0
Fremont	0	0	0	0	1	0	0	0	0
Greenwood	600	250	0	1	1	4	0	0	0
Hartsville	0	0	0	1	1	0	0	0	0
Hornby	940,574	0	1,843	6	3	0	0	0	0
Howard	16	0	0	2	0	0	0	0	0
Jasper	0	0	0	0	3	0	0	0	0
Prattsburg	299,612	0	1,951	7	0	0	0	0	0
Pulteney	425,043	0	576	11	1	0	0	0	0
Thurston	1,618,175	0	849	1	0	0	0	0	0
Troupsburg	18,180	0	0	2	2	0	0	0	0
Urbana	0	0	0	0	1	0	0	0	0
Wayne	0	0	0	0	1	0	0	0	0
West Union	60,412	14,863	25,812	2	1	201	12	17	0
Woodhull	0	0	0	0	1	0	0	0	0
County Total	17,146,368	15,113	57,586	69	24	205	12	17	0
Tioga County									
Barton	0	0	0	0	2	0	0	0	0
Candor	0	0	0	0	0	0	0	0	0
Nichols	0	0	0	0	1	0	0	0	0
Owego	0	0	0	0	1	0	0	0	0
Spencer	1,038,093	0	1,501	1	3	0	0	0	0
Tioga	0	0	0	0	0	0	0	0	0
County Total	1,038,093	0	1,501	1	7	0	0	0	0
Tompkins County									

Oil and Gas Production by Town in Each County, 2008

Town	Gas (mcf)	Oil (bbl)	Water (bbl)	Active Gas Wells	Inactive Gas Wells	Active Oil Wells	Inactive Oil Wells	Active Water Injection Wells	Inactive Water Injection Wells
Tompkins County									
Dryden	0	0	0	0	1	0	0	0	0
Enfield	0	0	0	0	0	0	0	0	0
Newfield	0	0	0	0	1	0	0	0	0
Ulysses	0	0	0	0	1	0	0	0	0
County Total	0	0	0	0	3	0	0	0	0
Wayne County									
Butler	910	0	0	2	1	0	0	0	0
Galen	40,660	0	0	3	1	0	0	0	0
County Total	41,570	0	0	5	2	0	0	0	0
Wyoming County									
Arcade	32,313	0	0	26	0	0	0	0	0
Attica	2,010		7	2	2	0	0	0	0
Bennington	93,266	0	413	91	1	0	0	0	0
Castile	4,752		0	4	0	0	0	0	0
Covington	83,390	0	363	33	5	0	0	0	0
Eagle	0		0	0	0	0	0	0	0
Gainesville	0	0	0	0	1	0	0	0	0
Genesee Falls	0	0	0	0	1	0	0	0	0
Java	9,128	0	0	22	0	0	0	0	0
Middlebury	35,645	0	930	7	1	0	0	0	0
Perry	33,287	0	0	40	4	0	0	0	0
Pike	0		0	1	0	0	0	0	0
Sheldon	42,162	0	795	41	1	0	0	0	0
Warsaw	1,172	0	0	4	1	0	0	0	0
County Total	337,125	0	2,508	271	17	0	0	0	0
Yates County									
Barrington	0	0	0	0	2	0	0	0	0
Benton	250	0	0	2	8	0	0	0	0
Italy	0	0	0	0	0	0	0	0	0
Jerusalem	51,069	0	3,640	1	2	0	0	0	0
Milo	3,307	0	0	1	1	0	0	0	0
Potter	0	0	0	0	1	0	0	0	0
Starkey	0	0	0	0	3	0	0	0	0
Torrey	0	0	0	0	2	0	0	0	0
County Total	54,626	0	3,640	4	19	0	0	0	0
State Total	50,320,077	383,804	1,124,535	6,676	911	3,618	1,519	135	332

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Alma	Klein, Roger, A. Jr.	31003252270000	Lot 53 #K21	1/24/2008	2/18/2008
Alma	Zlomek, John	31003256350000	Zlomek J 1	9/29/2008	11/19/2008
Alma	National Fuel Gas Supply Corp.	31003664230001	Regan (2318) SC-188A	1/17/2008	2/20/2008
Alma	National Fuel Gas Supply Corp.	31003664250001	Mulvey H (2321) SC-524	1/17/2008	
Alma	National Fuel Gas Supply Corp.	31003664260001	Dean Estate SC-512A	6/30/2008	
Amity	HE Oil Company	31003256930000	Oak Hill Farm 5	12/2/2008	5/20/2009
Andover	U S Energy Development Corp.	31003253360000	Otis Eastern 11	3/27/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253370000	Otis Eastern 12	3/27/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253380000	Otis Eastern 13	3/27/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253390000	Otis Eastern 14	3/27/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253400000	Otis Eastern 15	3/27/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253410000	Otis Eastern 16	3/27/2008	
Andover	U S Energy Development Corp.	31003253420000	Otis Eastern 17	3/27/2008	
Andover	U S Energy Development Corp.	31003253430000	Otis Eastern 18	3/27/2008	3/29/2008
Andover	U S Energy Development Corp.	31003253440000	Otis Eastern 19	3/27/2008	
Andover	U S Energy Development Corp.	31003253450000	Otis Eastern 20	3/27/2008	
Andover	U S Energy Development Corp.	31003253460000	Otis Eastern 21	3/27/2008	
Andover	U S Energy Development Corp.	31003253470000	Otis Eastern 22	3/27/2008	
Andover	U S Energy Development Corp.	31003253480000	Otis Eastern 23	3/27/2008	
Andover	U S Energy Development Corp.	31003253490000	Clark 1	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003253500000	Clark 2	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253510000	Clark 3	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253520000	Clark 4	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253530000	Clark 5	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253540000	Clark 6	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253550000	Clark 7	3/28/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253560000	Clark 8	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003253570000	Clark 9	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003253580000	Clark 10	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003253590000	Clark 11	5/16/2008	
Andover	U S Energy Development Corp.	31003253600000	Clark 12	3/28/2008	
Andover	U S Energy Development Corp.	31003253630000	Clark 15	4/22/2008	
Andover	U S Energy Development Corp.	31003253640000	Liuzzi 1	5/8/2008	
Andover	U S Energy Development Corp.	31003253650000	Liuzzi 2	3/26/2008	
Andover	U S Energy Development Corp.	31003253660000	Liuzzi 3	3/26/2008	
Andover	U S Energy Development Corp.	31003253670000	Liuzzi 4	5/8/2008	
Andover	U S Energy Development Corp.	31003253680000	Liuzzi 5	5/8/2008	
Andover	U S Energy Development Corp.	31003253690000	Liuzzi 6	5/8/2008	
Andover	U S Energy Development Corp.	31003253700000	Liuzzi 7	5/8/2008	
Andover	U S Energy Development Corp.	31003253710000	Liuzzi 8	5/8/2008	
Andover	U S Energy Development Corp.	31003253720000	Liuzzi 9	5/8/2008	

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Andover	U S Energy Development Corp.	31003253730000	Joyce 2	4/1/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253740000	Joyce 5	4/1/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253760000	Joyce 8	4/1/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253770000	Joyce 9	4/1/2008	3/28/2008
Andover	U S Energy Development Corp.	31003253780000	Joyce 12	4/1/2008	5/19/2008
Andover	U S Energy Development Corp.	31003253790000	Joyce 13	4/1/2008	5/23/2008
Andover	U S Energy Development Corp.	31003253800000	Joyce 15	5/8/2008	6/20/2008
Andover	U S Energy Development Corp.	31003253810000	Joyce 16	5/8/2008	6/26/2008
Andover	U S Energy Development Corp.	31003253830000	Joyce 18	5/8/2008	7/2/2008
Andover	U S Energy Development Corp.	31003253840000	Joyce 19	5/8/2008	
Andover	U S Energy Development Corp.	31003253850000	Joyce 20	5/16/2008	
Andover	U S Energy Development Corp.	31003253870000	Joyce 22	5/8/2008	
Andover	U S Energy Development Corp.	31003253880000	Joyce 23	5/8/2008	
Andover	U S Energy Development Corp.	31003253920000	Joyce 27	4/1/2008	
Andover	U S Energy Development Corp.	31003253960000	Joyce 31	4/1/2008	
Andover	U S Energy Development Corp.	31003254000000	Joyce 35	4/1/2008	
Andover	U S Energy Development Corp.	31003254030000	Joyce 38	4/1/2008	
Andover	U S Energy Development Corp.	31003254060000	Joyce 41	4/1/2008	
Andover	U S Energy Development Corp.	31003254070000	Barrera-Allegany Yankee 1	3/26/2008	
Andover	U S Energy Development Corp.	31003254070001	Barrera-Allegany Yankee 1A	12/4/2008	
Andover	U S Energy Development Corp.	31003254080000	Barrera-Allegany Yankee 2	3/26/2008	
Andover	U S Energy Development Corp.	31003254080001	Barrera-Allegany Yankee 2A	12/5/2008	
Andover	U S Energy Development Corp.	31003254090000	Barrera-Allegany Yankee 3	3/26/2008	
Andover	U S Energy Development Corp.	31003254090001	Barrera-Allegany Yankee 3A	12/5/2008	
Andover	U S Energy Development Corp.	31003254100000	Barrera-Allegany Yankee 4	3/26/2008	
Andover	U S Energy Development Corp.	31003254100001	Barrera-Allegany Yankee 4A	12/5/2008	12/2/2008
Andover	U S Energy Development Corp.	31003254110000	Barrera-Allegany Yankee 5	3/26/2008	
Andover	U S Energy Development Corp.	31003254110001	Barrera-Allegany Yankee 5A	12/5/2008	
Andover	U S Energy Development Corp.	31003254120000	Barrera-Allegany Yankee 6	3/26/2008	
Andover	U S Energy Development Corp.	31003254120001	Barrera-Allegany Yankee 6A	12/5/2008	
Andover	U S Energy Development Corp.	31003254130000	Barrera-Allegany Yankee 7	3/26/2008	
Andover	U S Energy Development Corp.	31003254130001	Barrera-Allegany Yankee 7A	12/5/2008	
Andover	U S Energy Development Corp.	31003254140000	Barrera-Allegany Yankee 8	3/26/2008	
Andover	U S Energy Development Corp.	31003254140001	Barrera-Allegany Yankee 8A	12/5/2008	12/5/2008
Andover	U S Energy Development Corp.	31003254150000	Barrera-Allegany Yankee 9	3/26/2008	
Andover	U S Energy Development Corp.	31003254150001	Barrera-Allegany Yankee 9A	12/5/2008	
Andover	U S Energy Development Corp.	31003254160000	Barrera-Allegany Yankee 10	3/26/2008	
Andover	U S Energy Development Corp.	31003254160001	Barrera-Allegany Yankee 10A	12/5/2008	
Andover	U S Energy Development Corp.	31003254170000	Barrera-Allegany Yankee 11	3/26/2008	
Andover	U S Energy Development Corp.	31003254170001	Barrera-Allegany Yankee 11A	12/5/2008	
Andover	U S Energy Development Corp.	31003254180000	Barrera-Alleagny Yankee 12	3/26/2008	
Andover	U S Energy Development Corp.	31003254180001	Barrera-Allegany Yankee 12A	12/5/2008	

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Andover	U S Energy Development Corp.	31003254190000	Barrera-Allegany Yankee 13	3/26/2008	
Andover	U S Energy Development Corp.	31003254190001	Barrera-Allegany Yankee 13A	12/5/2008	
Andover	U S Energy Development Corp.	31003254200000	Barrera-Allegany Yankee 14	3/26/2008	
Andover	U S Energy Development Corp.	31003254200001	Barrera-Allegany Yankee 14A	12/5/2008	
Andover	U S Energy Development Corp.	31003254210000	Barrera-Allegany Yankee 15	3/26/2008	
Andover	U S Energy Development Corp.	31003254210001	Barrera-Allegany Yankee 15A	12/5/2008	
Andover	U S Energy Development Corp.	31003254220000	Barrera-Allegany Yankee 16	3/26/2008	
Andover	U S Energy Development Corp.	31003254220001	Barrera-Allegany Yankee 16A	12/5/2008	
Andover	U S Energy Development Corp.	31003254230000	Barrera-Allegany Yankee 17	3/26/2008	
Andover	U S Energy Development Corp.	31003254230001	Barrera-Allegany Yankee 17A	12/5/2008	
Andover	U S Energy Development Corp.	31003254240000	Otis Eastern 1	3/28/2008	
Andover	U S Energy Development Corp.	31003254250000	Otis Eastern 2	3/28/2008	
Andover	U S Energy Development Corp.	31003254260000	Otis Eastern 3	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003254270000	Otis Eastern 4	3/28/2008	
Andover	U S Energy Development Corp.	31003254280000	Otis Eastern 5	3/28/2008	
Andover	U S Energy Development Corp.	31003254290000	Otis Eastern 6	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003254300000	Otis Eastern 7	3/28/2008	
Andover	U S Energy Development Corp.	31003254310000	Otis Eastern 8	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003254320000	Otis Eastern 9	3/28/2008	3/29/2008
Andover	U S Energy Development Corp.	31003254380000	Eastern Seaboard 6	4/1/2008	
Andover	U S Energy Development Corp.	31003254390000	Eastern Seaboard 7	4/1/2008	
Bolivar	Bull Dog Oil	31003255220000	Gadsby-Bulldog 5	6/25/2008	8/4/2008
Bolivar	Bull Dog Oil	31003255230000	Gadsby-Bulldog 6	7/28/2008	7/8/2008
Bolivar	Bull Dog Oil	31003255240000	Gadsby-Bulldog 7	6/25/2008	7/7/2008
Genesee	Simon of Bolivar Enterprises, Inc.	31003257160000	Bliss A-7	12/12/2008	12/29/2008
Genesee	Simon of Bolivar Enterprises, Inc.	31003257170000	Bliss A-8	12/12/2008	12/18/2008
Genesee	Simon of Bolivar Enterprises, Inc.	31003257350000	Bliss 0-14	12/31/2008	2/12/2009
Genesee	Simon of Bolivar Enterprises, Inc.	31003257360000	Bliss 0-18	12/31/2008	2/19/2009
Hume	Petroleum Development Corporatio	31003250560002	Hinz R & B 1B	3/12/2008	3/12/2008
Independence	Nathan Petroleum, Yahn & Yahn a	31003252090000	Austin 18Y	1/30/2008	4/9/2008
Independence	Nathan Petroleum, Yahn & Yahn a	31003252100000	Austin 19Y	1/30/2008	3/18/2008
Independence	Nathan Petroleum, Yahn & Yahn a	31003252110000	Austin 20Y	1/30/2008	3/11/2008
Independence	Nathan Petroleum, Yahn & Yahn a	31003252120000	Austin 21Y	1/30/2008	3/26/2008
Independence	Nathan Petroleum, Yahn & Yahn a	31003252130000	Austin 22Y	1/30/2008	4/3/2008
Independence	Otis Eastern Service, Inc.	31003252310000	Ponderosa 6	1/30/2008	3/4/2008
Independence	Otis Eastern Service, Inc.	31003252320000	Ponderosa 7	1/30/2008	2/24/2008
Independence	Otis Eastern Service, Inc.	31003252330000	Ponderosa 8	1/30/2008	2/12/2008
Independence	Otis Eastern Service, Inc.	31003252340000	Ponderosa 9	1/30/2008	2/4/2008
Independence	Nathan Petroleum Corp.	31003253250000	Nilson 2	3/21/2008	4/24/2008
Independence	Nathan Petroleum Corp.	31003255610000	Reber 1	7/22/2008	10/22/2008
Independence	Nathan Petroleum Corp.	31003255620000	Reber 2	7/22/2008	10/30/2008
Independence	Nathan Petroleum Corp.	31003256100000	Richardson T&W 1	10/8/2008	12/18/2008

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Allegany					
Independence	Nathan Petroleum Corp.	31003256110000	Richardson T&W 2	10/8/2008	12/31/2008
West Almond	Yahn & Yahn Inc.	31101261850000	Edlind 15	9/4/2008	12/4/2008
Willing	National Fuel Gas Supply Corp.	31003003710001	O'Hara, James 1 (NFGSC SC-498A)	12/8/2008	12/10/2008
Willing	National Fuel Gas Supply Corp.	31003201160001	Ryan J SC-490A	6/30/2008	
Willing	Pennsylvania General Energy Com	31003252860000	Dean, EF 2058	3/5/2008	4/10/2008
Willing	National Fuel Gas Supply Corp.	31003664280001	VanCampen 1 SC-493A	6/30/2008	
Willing	National Fuel Gas Supply Corp.	31003664290001	Van Campen (2316) SC-502	1/17/2008	
Wirt	Dorrett Oil Partners	31003255200000	Dorrett M 1	7/1/2008	10/3/2008
Wirt	Plants & Goodwin, Inc.	31003256010000	Wright 9	10/9/2008	11/12/2008
Bronx					
Bronx	City Cedars, LP	31005237660000	Cedars 1	4/25/2008	5/13/2008
Bronx	City Cedars, LP	31005237670000	Cedars 2	4/25/2008	6/4/2008
Bronx	City Cedars, LP	31005237680000	Cedars 3	4/25/2008	6/16/2008
Bronx	City Cedars, LP	31005237690000	Cedars 4	4/25/2008	7/16/2008
Broome					
Fenton	Chesapeake Appalachia, L.L.C.	31007230780201	Olson 1-C (625335)	3/5/2008	
Vestal	MegaEnergy Operating Inc.	31007261560000	Herceg 1	12/11/2008	6/3/2009
Cattaraugus					
Allegany	Snyder Brothers, Inc.	31009252360000	Nichols Run SBNR 29	2/6/2008	2/13/2008
Allegany	Uhl, Stephen L.	31009254620000	Schnell 6	4/15/2008	4/20/2008
Allegany	Uhl, Stephen L.	31009254630000	Schnell 9	4/15/2008	4/22/2008
Allegany	Uhl, Stephen L.	31009254640000	Schnell 12	4/15/2008	4/24/2008
Allegany	Kellner, Christian F.	31009255490000	Utter 11	7/9/2008	7/11/2008
Allegany	McCracken, Carl A. III	31009256680000	Day 1	11/3/2008	3/9/2009
Allegany	McCracken, Carl A. III	31009256700000	Truman 1	11/3/2008	3/4/2009
Ashford	Nornew, Inc.	31009251330000	Ashford Properties 1	1/31/2008	2/22/2008
Ashford	Nornew, Inc.	31009251330100	Ashford Properties 1A	6/25/2008	7/10/2008
Carrollton	Dallas Energy, LLC	31009243020001	Johnson 10A	9/26/2008	3/25/2009
Carrollton	Dallas Energy, LLC	31009251650000	Johnson 3	1/14/2008	4/17/2008
Carrollton	Dallas Energy, LLC	31009251660000	Johnson 8	1/14/2008	4/18/2008
Carrollton	Dallas Energy, LLC	31009251670000	Johnson 16	2/12/2008	4/25/2008
Carrollton	Dallas Energy, LLC	31009251680000	Johnson 17	2/12/2008	4/29/2008
Carrollton	Dallas Energy, LLC	31009251690000	Johnson 18	2/12/2008	7/7/2008
Carrollton	McCracken, Carl A. III	31009252210000	Beardsley B-6	2/5/2008	3/9/2008
Carrollton	McCracken, Carl A. III	31009252220000	Mueller M-21	2/5/2008	3/12/2008
Carrollton	McCracken, Carl A. III	31009252230000	Rosa O'Brien RO-1	2/5/2008	2/19/2008
Carrollton	McCracken, Carl A. III	31009252240000	Rosa O'Brien RO-2	2/5/2008	2/20/2008
Carrollton	McCracken, Carl A. III	31009252250000	Rosa O'Brien RO-3	2/5/2008	2/26/2008
Carrollton	McCracken, Carl A. III	31009252260000	Rosa O'Brien RO-4	2/5/2008	3/3/2008
Carrollton	McCracken, Carl A. III	31009253130000	Sue S-107	3/23/2008	3/23/2008
Carrollton	McCracken, Carl A. III	31009253140000	Sue S-108	3/17/2008	3/17/2008

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Cattaraugus					
Carrollton	McCracken, Carl A. III	31009253150000	Sue S-109	3/17/2008	4/20/2008
Carrollton	Dallas Energy, LLC	31009253260000	Potter Lumber PL15	5/7/2008	5/9/2008
Carrollton	Dallas Energy, LLC	31009253270000	Potter Lumber PL20	4/24/2008	5/5/2008
Carrollton	Dallas Energy, LLC	31009253280000	Potter Lumber PL22	4/24/2008	5/1/2008
Carrollton	McCracken, Carl A. III	31009254600000	Roeske-Eakin RE-3	4/1/2008	4/9/2008
Carrollton	McCracken, Carl A. III	31009254610000	Roeske-Eakin RE-6	4/1/2008	4/6/2008
Carrollton	Case Brothers Inc.	31009255060000	K-S 1	5/21/2008	6/10/2008
Carrollton	Case Brothers Inc.	31009255070000	K-S 2	5/21/2008	6/19/2008
Carrollton	Case Brothers Inc.	31009255080000	K-S 3	5/21/2008	6/25/2008
Carrollton	Dallas Energy, LLC	31009255140000	Johnson 4	7/2/2008	7/29/2008
Carrollton	Dallas Energy, LLC	31009255150000	Johnson 6	7/2/2008	7/21/2008
Carrollton	Dallas Energy, LLC	31009255160000	Johnson 7	7/2/2008	7/22/2008
Carrollton	Dallas Energy, LLC	31009255170000	Johnson 19	7/2/2008	7/28/2008
Carrollton	Dallas Energy, LLC	31009255180000	Johnson 20	6/3/2008	7/2/2008
Carrollton	Case Brothers Inc.	31009255330000	Knapp 6	6/23/2008	8/11/2008
Carrollton	Case Brothers Inc.	31009255340000	Knapp 9	6/25/2008	8/5/2008
Carrollton	Case Brothers Inc.	31009255350000	Knapp 12A	6/23/2008	7/15/2008
Carrollton	Case Brothers Inc.	31009255360000	Knapp 18	6/23/2008	7/8/2008
Carrollton	Dallas Energy, LLC	31009255440000	Johnson 21	7/2/2008	7/17/2008
Carrollton	Dallas Energy, LLC	31009255450000	Potter Lumber PL28	7/2/2008	7/8/2008
Carrollton	Dallas Energy, LLC	31009255460000	Potter Lumber PL32	7/2/2008	7/10/2008
Carrollton	Dallas Energy, LLC	31009255470000	Potter Lumber PL33	7/2/2008	7/14/2008
Carrollton	Dallas Energy, LLC	31009255480000	Potter Lumber PL34	7/2/2008	7/11/2008
Carrollton	Dallas Energy, LLC	31009255630000	Potter Lumber PL23	7/18/2008	8/5/2008
Carrollton	Dallas Energy, LLC	31009255640000	Potter Lumber PL24	7/18/2008	7/30/2008
Carrollton	Dallas Energy, LLC	31009255650000	Potter Lumber PL25	7/18/2008	1/13/2009
Carrollton	Dallas Energy, LLC	31009255660000	Potter Lumber PL29	7/18/2008	8/4/2008
Carrollton	Dallas Energy, LLC	31009255670000	Potter Lumber PL30	7/18/2008	1/7/2009
Carrollton	Dallas Energy, LLC	31009255860000	Johnson 11	9/25/2008	3/28/2009
Carrollton	Dallas Energy, LLC	31009255870000	Johnson 13	9/25/2008	3/21/2009
Carrollton	Dallas Energy, LLC	31009255880000	Potter Lumber PL13	9/25/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255890000	Potter Lumber PL16	9/25/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255900000	Potter Lumber PL17	9/25/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255910000	Potter Lumber PL21	9/25/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255920000	Potter Lumber PL27	9/25/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255930000	Trimble 3	9/26/2008	3/24/2009
Carrollton	Dallas Energy, LLC	31009255940000	Trimble 4	9/26/2008	3/24/2009
Carrollton	McCracken, Carl A. III	31009256870000	Rosa O'Brian RO-5	11/19/2008	2/10/2009
Carrollton	McCracken, Carl A. III	31009256880000	Rosa O'Brian RO-7	11/19/2008	1/29/2009
Carrollton	McCracken, Carl A. III	31009256890000	Rosa O'Brian RO-10	11/19/2008	2/4/2009
Carrollton	McCracken, Carl A. III	31009256900000	Rosa O'Brian RO-14	11/19/2008	2/6/2009
Conewango	Texas Keystone, Inc.	31009255040000	Hostetler 1	6/20/2008	7/26/2008

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Cattaraugus					
Dayton	U S Energy Development Corp.	31009250870000	Countryside Sand & Gravel 3	1/11/2008	2/26/2008
Dayton	U S Energy Development Corp.	31009250880000	Countryside Sand & Gravel 4	1/11/2008	2/26/2008
Dayton	U S Energy Development Corp.	31009250890000	Countryside Sand & Gravel 5	1/2/2008	2/25/2008
Dayton	U S Energy Development Corp.	31009251030000	Countryside Sand & Gravel 1	1/2/2008	2/25/2008
Dayton	U S Energy Development Corp.	31009251040000	Countryside Sand & Gravel 2	1/2/2008	2/26/2008
Dayton	Texas Keystone, Inc.	31009254750000	Colvenbach 3	6/20/2008	8/11/2008
Dayton	Pan Energy Company, Inc.	31009254990000	David 1	6/5/2008	9/11/2008
Dayton	Pan Energy Company, Inc.	31009255000000	David 2	6/5/2008	9/17/2008
Dayton	Pan Energy Company, Inc.	31009255010000	David 3	6/5/2008	9/16/2008
East Otto	U S Energy Development Corp.	31009248190001	Perkins 2A	7/18/2008	9/4/2008
East Otto	U S Energy Development Corp.	31009248200001	Perkins 3A	8/4/2008	9/16/2008
East Otto	U S Energy Development Corp.	31009248570002	Witnauer 1B	10/1/2008	2/29/2008
East Otto	U S Energy Development Corp.	31009256980000	Solem 1	12/8/2008	2/3/2009
Leon	U S Energy Development Corp.	31009250740000	Detweiler 2	2/28/2008	
Leon	U S Energy Development Corp.	31009250760000	Slabaugh 1	2/29/2008	
Leon	U S Energy Development Corp.	31009250770000	Slabaugh 2	2/29/2008	
Leon	U S Energy Development Corp.	31009250780000	Slabaugh 3	11/12/2008	
Leon	U S Energy Development Corp.	31009250790000	Wengerd 1	2/26/2008	2/25/2008
Leon	U S Energy Development Corp.	31009250900000	Detweiler 1	2/26/2008	
Leon	U S Energy Development Corp.	31009252370000	Wutz 3	11/12/2008	2/9/2009
Leon	U S Energy Development Corp.	31009252640000	Smith 9	4/8/2008	
Leon	U S Energy Development Corp.	31009252990000	Blakely 3	3/20/2008	
Leon	U S Energy Development Corp.	31009253000000	Borda 1	4/8/2008	
Leon	U S Energy Development Corp.	31009253000001	Borda 1A	11/7/2008	11/7/2008
Leon	U S Energy Development Corp.	31009253010000	Borda 2	4/8/2008	
Leon	U S Energy Development Corp.	31009253010001	Borda 2A	10/29/2008	10/27/2008
Leon	U S Energy Development Corp.	31009253020000	Pritchard 2	4/21/2008	10/21/2008
Leon	U S Energy Development Corp.	31009257080000	Hickel 1	12/10/2008	3/25/2009
Napoli	PC Exploration, Inc.	31009254590000	Adams/Raber 1	5/7/2008	6/7/2008
Olean	Vineyard Oil & Gas Co.	31009251960000	Fee 1	1/23/2008	6/24/2008
Olean	Vineyard Oil & Gas Co.	31009251970000	Fee 2	1/23/2008	6/12/2008
Olean	Vineyard Oil & Gas Co.	31009251980000	Fee 3	1/23/2008	5/28/2008
Olean	Vineyard Oil & Gas Co.	31009251990000	Fee 4	1/23/2008	
Olean	D & S Energy	31009252000000	Willoughby 3	1/23/2008	3/3/2008
Olean	D & S Energy	31009252010000	Willoughby 6	1/23/2008	3/29/2008
Olean	D & S Energy	31009252020000	Willoughby 9	1/23/2008	3/25/2008
Olean	D & S Energy	31009252030000	Willoughby 11	1/23/2008	3/9/2008
Olean	D & S Energy	31009252040000	Willoughby 10	1/23/2008	3/16/2008
Olean	Copper Ridge Oil, Inc.	31009254960000	Py 52	5/14/2008	10/24/2008
Olean	Copper Ridge Oil, Inc.	31009254970000	Weis 64	5/14/2008	5/24/2008
Olean	Copper Ridge Oil, Inc.	31009255540000	Weis 72	7/21/2008	9/1/2008
Olean	Copper Ridge Oil, Inc.	31009255550000	Weis 81	7/21/2008	10/10/2008

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Cattaraugus					
Olean	Copper Ridge Oil, Inc.	31009255560000	Weis 82	7/21/2008	7/26/2008
Olean	Copper Ridge Oil, Inc.	31009255570000	Weis 86	7/21/2008	10/2/2008
Olean	Copper Ridge Oil, Inc.	31009255580000	Weis 91	7/21/2008	9/26/2008
Olean	D & S Energy	31009255700000	Willoughby 12	7/29/2008	11/10/2008
Olean	D & S Energy	31009255710000	Willoughby 13	7/29/2008	10/31/2008
Olean	D & S Energy	31009255720000	Willoughby 14	7/29/2008	11/20/2008
Olean	D & S Energy	31009255730000	Willoughby 15	7/29/2008	11/14/2008
Olean	Copper Ridge Oil, Inc.	31009255760000	Weis 68	8/12/2008	9/16/2008
Olean	Copper Ridge Oil, Inc.	31009255770000	Weis 87	8/12/2008	8/15/2008
Olean	Copper Ridge Oil, Inc.	31009255780000	Weis 92	8/12/2008	9/9/2008
Olean	Copper Ridge Oil, Inc.	31009256260000	Py 63	9/29/2008	2/23/2009
Olean	Copper Ridge Oil, Inc.	31009256270000	Py 64	9/29/2008	2/9/2009
Olean	Copper Ridge Oil, Inc.	31009256280000	Py 65	9/29/2008	3/6/2009
Olean	Copper Ridge Oil, Inc.	31009256290000	Weis 67	9/29/2008	3/23/2009
Olean	Copper Ridge Oil, Inc.	31009256300000	Weis 71	9/29/2008	3/24/2009
Olean	Copper Ridge Oil, Inc.	31009256310000	Weis 77	9/29/2008	3/24/2009
Olean	Copper Ridge Oil, Inc.	31009256320000	Weis 88	9/29/2008	3/24/2009
Olean	Copper Ridge Oil, Inc.	31009256660000	Weis 93	11/3/2008	11/10/2008
Olean	Snyder Brothers, Inc.	31009256670000	James 106	11/18/2008	2/18/2009
Perrysburg	U S Energy Development Corp.	31009248960001	Hilliker 1A	9/24/2008	2/16/2009
Perrysburg	U S Energy Development Corp.	31009252650000	Zets 2	3/19/2008	
Perrysburg	U S Energy Development Corp.	31009252710000	Mackey 1	4/7/2008	6/13/2008
Perrysburg	U S Energy Development Corp.	31009252720000	Maines 1	3/19/2008	3/24/2008
Perrysburg	U S Energy Development Corp.	31009252730000	Sprague 3	3/19/2008	3/24/2008
Perrysburg	U S Energy Development Corp.	31009252740000	Sprague 4	3/19/2008	3/24/2008
Perrysburg	U S Energy Development Corp.	31009253030000	Emmick 1	3/19/2008	3/24/2008
Perrysburg	U S Energy Development Corp.	31009253290000	Murdoch 1	3/19/2008	3/24/2008
Perrysburg	U S Energy Development Corp.	31009254730000	Charlton 1	5/19/2008	
Perrysburg	U S Energy Development Corp.	31009254740000	Davis 1	4/30/2008	6/9/2008
Persia	Texas Keystone, Inc.	31009254760000	Hojnacki 2	6/17/2008	8/21/2008
South Valley	EnerVest Operating, LLC	31009256240000	Ruhlman 1	12/3/2008	
Yorkshire	Nornew, Inc.	31009255030000	Petri 1	6/25/2008	8/25/2008
Yorkshire	Nornew, Inc.	31009255250000	Emerling 1	7/3/2008	8/7/2008
Cayuga					
Aurelius	Chesapeake Appalachia, L.L.C.	31011261660000	Lockwood 1 (626942)	11/18/2008	
Sempronius	Chesapeake Appalachia, L.L.C.	31011262030000	Atwood 1 (627001)	9/10/2008	10/28/2008
Sempronius	Chesapeake Appalachia, L.L.C.	31011262040000	Thilburg 1 (627007)	9/10/2008	11/26/2008
Springport	Chesapeake Appalachia, L.L.C.	31011260050000	Gulliver 2 (626406)	11/18/2008	
Springport	Chesapeake Appalachia, L.L.C.	31011260070000	Pearce Acres 2 (626884)	7/8/2008	7/11/2008
Springport	Chesapeake Appalachia, L.L.C.	31011261670000	O'Hara 1 (626943)	7/16/2008	7/26/2008
Springport	Chesapeake Appalachia, L.L.C.	31011262430000	Wolfe 1 (626624)	9/25/2008	

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Chautauqua					
Arkwright	Seneca Resources Corp.	31013249440000	Canadaway Wildlife Area 7-38226	9/29/2008	1/19/2009
Arkwright	Seneca Resources Corp.	31013249460000	Canadaway Wildlife Area 10-38229	9/29/2008	11/13/2008
Arkwright	P & H Gas, LLC	31013256620000	Aldrich D 1	11/4/2008	5/4/2009
Arkwright	P & H Gas, LLC	31013256630000	Spindler 2	11/4/2008	5/4/2009
Busti	EnerVest Operating, LLC	31013249230000	Major 1-531	3/28/2008	9/27/2008
Busti	Decker, James K. & Tiffany J.	31013250120001	Sperry 8A	3/7/2008	3/12/2008
Busti	Pine Ridge Energy	31013251810000	C3 8	1/22/2008	4/16/2008
Busti	Pine Ridge Energy	31013251820000	MSC1 20	1/22/2008	4/9/2008
Busti	Pine Ridge Energy	31013251830000	MSC1 21	1/22/2008	4/10/2008
Busti	Johnson, Mark & Troy	31013253180000	Pangborn 5	3/17/2008	3/31/2008
Busti	Johnson, Mark & Troy	31013253190000	Pangborn 6	3/17/2008	5/27/2008
Busti	Johnson, Mark & Troy	31013253200000	Pangborn 7	3/17/2008	5/23/2008
Busti	Johnson, Mark & Troy	31013253210000	Pangborn 8	3/17/2008	4/5/2008
Busti	Johnson, Mark & Troy	31013253220000	Curtis 23-A	3/17/2008	3/24/2008
Busti	Johnson, Mark & Troy	31013253230000	Curtis 24-A	3/17/2008	3/27/2008
Busti	Johnson, Mark & Troy	31013253240000	Eckstrom 14-A	3/17/2008	5/30/2008
Busti	Decker, James K. & Tiffany J.	31013254660000	Schrader 1	4/18/2008	6/20/2008
Busti	Decker, James K. & Tiffany J.	31013254670000	Schrader 2	4/18/2008	6/25/2008
Busti	Johnson, Mark & Troy	31013254980000	Eckstrom 13A	5/12/2008	5/28/2008
Busti	Decker, James K. & Tiffany J.	31013255370000	Hanstrom 1	7/2/2008	7/21/2008
Busti	EnerVest Operating, LLC	31013255740000	Lepley 1	7/22/2008	8/28/2008
Busti	Pefley Oil & Gas, Inc.	31013256060000	Nelson M 13G	9/11/2008	10/22/2008
Busti	Pefley Oil & Gas, Inc.	31013256070000	Nelson M 14G	9/11/2008	
Busti	Pefley Oil & Gas, Inc.	31013256080000	Junkyard 10	9/11/2008	9/15/2008
Busti	Pefley Oil & Gas, Inc.	31013256090000	Junkyard 11	9/11/2008	9/16/2008
Busti	Pefley Oil & Gas, Inc.	31013256330000	Drayer 9	9/23/2008	11/3/2008
Busti	Pefley Oil & Gas, Inc.	31013256340000	Drayer 10	9/23/2008	10/30/2008
Carroll	U S Energy Development Corp.	31013248080001	Anderson 1A	1/23/2008	3/28/2008
Carroll	EnerVest Operating, LLC	31013255090000	Eckman 12-524	5/30/2008	7/25/2008
Carroll	Chautauqua Energy, Inc.	31013255990000	Coulter 1	9/25/2008	
Charlotte	U S Energy Development Corp.	31013250610000	Scott 1	2/19/2008	2/28/2008
Charlotte	U S Energy Development Corp.	31013251070000	Fisher 2	2/26/2008	2/29/2008
Charlotte	Universal Resources Holdings, Inc.	31013256160000	Willson 5	9/29/2008	11/7/2008
Charlotte	Universal Resources Holdings, Inc.	31013256170000	Gierlinger 2	9/29/2008	11/11/2008
Charlotte	Universal Resources Holdings, Inc.	31013256180000	Boettcher 5	9/29/2008	11/1/2008
Charlotte	Universal Resources Holdings, Inc.	31013256530000	Lebaron 6	10/9/2008	10/27/2008
Cherry Creek	Pine Valley Central School District	31013252350000	Fee 1	12/10/2008	2/5/2009
Ellery	Unbridled Energy NY LLC	31013252930000	Mittlefehldt 1	3/19/2008	4/29/2008
Ellery	Unbridled Energy NY LLC	31013252940000	Pembridge 1	3/19/2008	5/15/2008
Ellery	Unbridled Energy NY LLC	31013252950000	Wahlgren 3	4/7/2008	5/6/2008
Ellery	Unbridled Energy NY LLC	31013252960000	Johnson 1	3/19/2008	5/21/2008
Ellery	Unbridled Energy NY LLC	31013252970000	Miller 1	3/19/2008	5/30/2008

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Chautauqua					
Ellery	Unbridled Energy NY LLC	31013252980000	Reheiser 2	3/19/2008	4/22/2008
Ellery	Universal Resources Holdings, Inc.	31013254830000	Mikula 1	5/7/2008	
Ellery	Universal Resources Holdings, Inc.	31013254840000	Creed 1	5/8/2008	6/17/2008
Ellery	Universal Resources Holdings, Inc.	31013254910000	Cornell 1	5/9/2008	6/21/2008
Ellery	Universal Resources Holdings, Inc.	31013254920000	Cornell 3	5/9/2008	6/25/2008
Ellery	Universal Resources Holdings, Inc.	31013255300000	Carlson J 1	6/25/2008	9/21/2008
Ellery	Universal Resources Holdings, Inc.	31013255390000	Carlson J 2	8/4/2008	9/17/2008
Ellery	Stedman Energy, Inc.	31013255680000	Lown 4	7/25/2008	8/6/2008
Ellery	Universal Resources Holdings, Inc.	31013255960000	Anderson 2	9/15/2008	11/21/2008
Ellery	Universal Resources Holdings, Inc.	31013255970000	Wolcott Dairy 1	9/15/2008	12/2/2008
Ellicott	U S Energy Development Corp.	31013252680000	Sirianno 1	9/24/2008	3/25/2009
Ellicott	Ellington Energy, Inc.	31013252820000	Swanson 2	4/7/2008	6/25/2008
Ellicott	U S Energy Development Corp.	31013252880000	Johnson 4	4/18/2008	10/18/2008
Ellicott	EnerVest Operating, LLC	31013254800000	Skyline Archery Club 1-135	5/23/2008	8/25/2008
Ellicott	Universal Resources Holdings, Inc.	31013254820000	Knight 1	5/8/2008	6/30/2008
Ellicott	Universal Resources Holdings, Inc.	31013255310000	Martin 2	6/25/2008	9/10/2008
Ellicott	EnerVest Operating, LLC	31013255590000	Jimison 1	9/15/2008	10/6/2008
Ellicott	Ellington Energy, Inc.	31013256050000	Northgate Church 1	9/29/2008	
Ellicott	EnerVest Operating, LLC	31013256230000	Henderson 2	9/19/2008	
Ellington	Ellington Energy, Inc.	31013253160000	Olmstead 1	4/18/2008	8/5/2008
Gerry	Universal Resources Holdings, Inc.	31013154140001	Barmore, E 1A	5/7/2008	
Gerry	Chautauqua Energy, Inc.	31013250510000	Dean 1	5/29/2008	6/23/2008
Gerry	U S Energy Development Corp.	31013250620000	Scott 2	2/26/2008	3/29/2008
Gerry	U S Energy Development Corp.	31013250660000	Kasubowski 1	2/19/2008	2/29/2008
Gerry	Ellington Energy, Inc.	31013253170000	Olmstead 3	4/18/2008	7/2/2008
Gerry	Chautauqua Energy, Inc.	31013254680000	Swanson M 2	5/2/2008	6/9/2008
Gerry	Chautauqua Energy, Inc.	31013254690000	Swanson M 3	4/24/2008	6/16/2008
Gerry	Chautauqua Energy, Inc.	31013255320000	Johnson P 3	6/25/2008	7/16/2008
Hanover	U S Energy Development Corp.	31013251430000	Herold 1	1/11/2008	2/22/2008
Hanover	U S Energy Development Corp.	31013251590000	Parisio 1	1/17/2008	2/22/2008
Hanover	U S Energy Development Corp.	31013251700000	Brewster 1	2/21/2008	
Hanover	U S Energy Development Corp.	31013251710000	Feinen 1	1/11/2008	2/22/2008
Hanover	U S Energy Development Corp.	31013251720000	Perry 1	1/11/2008	
Hanover	U S Energy Development Corp.	31013251720001	Perry 1A	3/6/2008	3/14/2008
Hanover	U S Energy Development Corp.	31013251730000	Price 1	1/11/2008	2/22/2008
Hanover	U S Energy Development Corp.	31013251740000	Rogers 1	1/11/2008	2/22/2008
Hanover	U S Energy Development Corp.	31013251750000	Slawson 1	1/17/2008	3/28/2008
Hanover	U S Energy Development Corp.	31013252800000	Coppola 1	3/19/2008	3/24/2008
Hanover	U S Energy Development Corp.	31013252840000	Sprague 2	3/19/2008	3/24/2008
Hanover	Cotton Well Drilling Co., Inc.	31013252850000	Evert 2	6/11/2008	9/9/2008
Hanover	Universal Resources Holdings, Inc.	31013254930000	Wilcox 1	5/9/2008	5/27/2008
Hanover	Universal Resources Holdings, Inc.	31013254940000	Wilcox 2	5/9/2008	6/1/2008

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Chautauqua					
Hanover	Cotton Well Drilling Co., Inc.	31013256210000	Gugino 1	9/22/2008	10/8/2008
Hanover	U S Energy Development Corp.	31013256380000	White 1	10/8/2008	12/17/2008
Hanover	U S Energy Development Corp.	31013256420000	Cross 12	11/3/2008	2/2/2009
Harmony	EnerVest Operating, LLC	31013249750001	Hagey 1-542A	9/19/2008	
Harmony	Stedman Energy, Inc.	31013254860000	Baldwin 1	5/7/2008	7/22/2008
Harmony	Stedman Energy, Inc.	31013255210000	Seth 1	6/10/2008	7/30/2008
Harmony	EnerVest Operating, LLC	31013255600000	Johnson P 1	7/22/2008	8/18/2008
Kiantone	U S Energy Development Corp.	31013246470000	Audubon Society 1	1/22/2008	3/17/2008
Kiantone	U S Energy Development Corp.	31013248100001	Gage 3A	1/23/2008	2/29/2008
Kiantone	Universal Resources Holdings, Inc.	31013255380000	Lee 1	9/16/2008	9/26/2008
Poland	EnerVest Operating, LLC	31013247820001	Stearns 1	5/9/2008	6/18/2008
Poland	U S Energy Development Corp.	31013251480000	Gustafson 5	2/19/2008	2/27/2008
Poland	U S Energy Development Corp.	31013251500000	Carlberg 4	5/19/2008	
Poland	EnerVest Operating, LLC	31013254810000	Stearns 2-512	5/9/2008	7/9/2008
Poland	Universal Resources Holdings, Inc.	31013255020000	Carlson Bros 1	5/28/2008	6/12/2008
Poland	EnerVest Operating, LLC	31013256130000	Lee 3	9/19/2008	10/15/2008
Poland	EnerVest Operating, LLC	31013256150000	Forks 1	9/19/2008	10/16/2008
Poland	EnerVest Operating, LLC	31013256220000	Wilson DJ 1	9/19/2008	
Poland	EnerVest Operating, LLC	31013256550000	Marsh 9	10/16/2008	
Pomfret	U S Energy Development Corp.	31013248720002	Meyers 1B	7/3/2008	7/10/2008
Pomfret	P & H Gas, LLC	31013256610000	Aldrich 1	11/6/2008	5/4/2009
Portland	Ellington Energy, Inc.	31013247960001	Lake Erie Baptist Church 1A	2/21/2008	4/25/2008
Portland	Ellington Energy, Inc.	31013252810000	McIntyre 1	4/24/2008	7/18/2008
Portland	Chautauqua Energy, Inc.	31013254890000	Fredonia Student Association 1	5/9/2008	5/12/2008
Portland	Chautauqua Energy, Inc.	31013254900000	Fredonia Student Association 2	5/9/2008	5/20/2008
Portland	Ellington Energy, Inc.	31013255130000	Lake Erie Baptist Church 3	7/21/2008	7/30/2008
Portland	Chautauqua Energy, Inc.	31013256370000	Russo 1	10/8/2008	
Sheridan	U S Energy Development Corp.	31013252580000	Lewis 1	3/19/2008	3/24/2008
Sheridan	Cotton Well Drilling Co., Inc.	31013255190000	Ark 3	9/16/2008	9/29/2008
Sheridan	Cotton Well Drilling Co., Inc.	31013255420000	Ark 1	7/3/2008	10/2/2008
Sheridan	Cotton Well Drilling Co., Inc.	31013255430000	Ark 2	7/3/2008	9/23/2008
Sheridan	U S Energy Development Corp.	31013257100000	Dimmer 1	12/10/2008	2/3/2009
Stockton	U S Energy Development Corp.	31013244780001	Cross 6A	3/19/2008	8/26/2008
Stockton	U S Energy Development Corp.	31013252690000	Bardal 1	4/18/2008	
Stockton	U S Energy Development Corp.	31013252690001	Bardal 1A	11/6/2008	
Stockton	Ellington Energy, Inc.	31013254790000	Kamp 1	4/25/2008	7/9/2008
Villanova	U S Energy Development Corp.	31013250650000	Partyka 2	2/12/2008	3/4/2008
Villanova	U S Energy Development Corp.	31013251760000	Longbine 1	2/19/2008	2/28/2008
Villanova	U S Energy Development Corp.	31013251770000	Mooney 1	2/19/2008	2/29/2008
Villanova	U S Energy Development Corp.	31013251850000	Scott 4	2/19/2008	
Villanova	U S Energy Development Corp.	31013251860000	Scott 5	2/18/2008	
Villanova	U S Energy Development Corp.	31013251870000	Scott 6	2/19/2008	

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Chautauqua					
Villanova	U S Energy Development Corp.	31013251910000	Scott 7	1/17/2008	
Villanova	U S Energy Development Corp.	31013253040000	Achilles 1	5/12/2008	
Villanova	U S Energy Development Corp.	31013253050000	Achilles 2	5/12/2008	
Villanova	Ellington Energy, Inc.	31013255100000	Nelson 1	5/27/2008	8/25/2008
Villanova	Ellington Energy, Inc.	31013255110000	Nelson 4	5/27/2008	8/18/2008
Villanova	Universal Resources Holdings, Inc.	31013255120000	Press 3	6/3/2008	6/6/2008
Villanova	Cotton Well Drilling Co., Inc.	31013255530000	Morris 3	7/9/2008	9/12/2008
Villanova	Unbridled Energy NY LLC	31013255750000	Crowell D 6	9/29/2008	
Villanova	Universal Resources Holdings, Inc.	31013255790000	Press 4	9/15/2008	10/1/2008
Villanova	Universal Resources Holdings, Inc.	31013255800000	Hebner 2	9/15/2008	10/20/2008
Villanova	Universal Resources Holdings, Inc.	31013255810000	Hebner 3	9/15/2008	10/16/2008
Villanova	Universal Resources Holdings, Inc.	31013255820000	Hebner 6	9/15/2008	10/11/2008
Villanova	Universal Resources Holdings, Inc.	31013255830000	Swanson J 1	9/15/2008	10/5/2008
Villanova	Unbridled Energy NY LLC	31013256200000	Scott 3	9/29/2008	
Westfield	Chautauqua Energy, Inc.	31013252570000	Ramm 1	4/16/2008	5/5/2008
Westfield	U S Energy Development Corp.	31013257240000	Riedesel 1	12/19/2008	2/9/2009
Chemung					
Baldwin	Chesapeake Appalachia, L.L.C.	31015260970000	Sullivan 1 (626472)	6/5/2008	8/7/2008
Baldwin	Chesapeake Appalachia, L.L.C.	31015260980000	Kinsman 1 (626468)	6/5/2008	7/26/2008
Elmira	East Resources, Inc.	31015260740000	Gutchess 1	6/9/2008	8/30/2008
Elmira	Fortuna Energy Inc.	31015260850000	Bush S 1	2/15/2008	3/7/2008
Elmira	East Resources, Inc.	31015261230000	Cotton Hanlon 4	6/9/2008	7/14/2008
Erin	Chesapeake Appalachia, L.L.C.	31015261680000	Harmyk 1 (626832)	9/9/2008	10/9/2008
Horseheads	Fortuna Energy Inc.	31015260960000	Allington M 1	3/20/2008	4/28/2008
Horseheads	Anschutz Exploration Corporation	31015261960000	The Center at Horseheads 1	8/27/2008	9/23/2008
Southport	East Resources, Inc.	31015260080100	Farmer 1-A	1/29/2008	2/2/2008
Southport	East Resources, Inc.	31015260080200	Farmer 1-B	2/12/2008	2/13/2008
Van Etten	Fortuna Energy Inc.	31015260940000	Poysa E 1	3/21/2008	6/24/2008
Van Etten	Fortuna Energy Inc.	31015261420000	Bean E. 1	7/16/2008	8/8/2008
Veteran	Fortuna Energy Inc.	31015260920000	Victor 1	2/26/2008	9/3/2008
Chenango					
Coventry	Nornew, Inc.	31017261520000	Houben 1H	7/16/2008	8/6/2008
Coventry	Nornew, Inc.	31017261520001	Houben 1H	9/19/2008	8/7/2008
Coventry	Nornew, Inc.	31017262110000	Compositor 1H	9/10/2008	
McDonough	Nornew, Inc.	31017260310001	Urgo 1-540	4/16/2008	11/2/2007
McDonough	Nornew, Inc.	31017261290000	Wagner 1-539	5/20/2008	
Oxford	Nornew, Inc.	31017260500000	Romahn 1	2/29/2008	6/24/2008
Oxford	Nornew, Inc.	31017261170000	Parker 1	4/23/2008	9/27/2008
Oxford	Nornew, Inc.	31017262190000	Shaw, J. 1H	9/17/2008	
Preston	Nornew, Inc.	31017239970000	Palmatier 1	3/7/2008	6/13/2008
Preston	Nornew, Inc.	31017239980000	Howe 1	6/25/2008	7/9/2008

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Chenango					
Preston	Nornew, Inc.	31017260550000	Doty 1	1/9/2008	4/30/2008
Smithville	Nornew, Inc.	31017262200000	Carr, J. 1H	9/17/2008	
Smyrna	Nornew, Inc.	31017229280001	Smith J 1	6/3/2008	
Smyrna	Nornew, Inc.	31017231370100	Thompson 1HA	7/3/2008	8/13/2008
Smyrna	Nornew, Inc.	31017260350000	Rossi 2	4/11/2008	6/30/2008
Smyrna	Nornew, Inc.	31017260450000	Smyrna Hillbillies 2H	2/15/2008	
Smyrna	Nornew, Inc.	31017260790000	Krawiec 2	5/5/2008	6/22/2008
Smyrna	Nornew, Inc.	31017260790100	Krawiec 1H	7/24/2008	
Smyrna	Nornew, Inc.	31017260820000	Smyrna Hillbillies 1-559	2/15/2008	4/19/2008
Smyrna	Nornew, Inc.	31017260860000	Ozdemir 1H	2/19/2008	
Smyrna	Nornew, Inc.	31017261610000	Peebles 2H	8/14/2008	9/17/2008
Smyrna	Nornew, Inc.	31017261800000	Smyrna Hillbillies 3	9/15/2008	
Smyrna	Nornew, Inc.	31017261810000	Smyrna Hillbillies 4	9/15/2008	
Smyrna	Nornew, Inc.	31017261870000	Krawiec 1H	7/30/2008	7/31/2008
Smyrna	Nornew, Inc.	31017261910000	Yager L. 1	9/15/2008	
Smyrna	Nornew, Inc.	31017261940000	Yager L. 2	9/15/2008	
Smyrna	Nornew, Inc.	31017262080000	Corey, F. 1H	9/8/2008	10/4/2008
Smyrna	Nornew, Inc.	31017262090000	Miles, R. 1H	9/8/2008	11/15/2008
Smyrna	Nornew, Inc.	31017262660000	Davis, C. 2H	11/7/2008	12/14/2008
Smyrna	Nornew, Inc.	31017262680000	Corey 2H	11/19/2008	12/12/2008
Smyrna	Nornew, Inc.	31017262700000	Farrow, B. 1H	11/21/2008	1/13/2009
Cortland					
Cortlandville	Anschutz Exploration Corporation	31023262670000	Nael Cam Farms 1	12/10/2008	1/31/2009
Erie					
Alden	Alden Aurora Gas Co., Inc.	31029254950000	Oles 2	5/14/2008	11/20/2008
Alden	Alden Aurora Gas Co., Inc.	31029256120000	Lerner 1	10/10/2008	12/8/2008
Alden	Alden Aurora Gas Co., Inc.	31029257150000	Thuman 1	12/12/2008	2/18/2009
Alden	Alden Aurora Gas Co., Inc.	31029257250000	Voss 1	12/31/2008	3/4/2009
Alden	Alden Aurora Gas Co., Inc.	31029257330000	Hopcia 1	12/24/2008	3/31/2009
Alden	Alden Aurora Gas Co., Inc.	31029257340000	Hammer 1	12/31/2008	
Boston	U S Energy Development Corp.	31029252380000	Bickel 1	3/31/2008	3/30/2008
Boston	U S Energy Development Corp.	31029252390000	Galluzzi 1	5/2/2008	10/31/2008
Boston	U S Energy Development Corp.	31029252400000	Rachwal 2	4/24/2008	7/31/2008
Boston	U S Energy Development Corp.	31029252410000	Telaak 1	3/27/2008	3/29/2008
Boston	U S Energy Development Corp.	31029253300000	Hoelscher 3	3/27/2008	3/28/2008
Boston	U S Energy Development Corp.	31029253310000	Hoelscher 4	3/31/2008	8/26/2008
Boston	U S Energy Development Corp.	31029253320000	Smith 8	5/12/2008	9/4/2008
Boston	U S Energy Development Corp.	31029257000000	Dollman 1	12/31/2008	2/2/2009
Brant	U S Energy Development Corp.	31029254720000	Catalano 1	9/25/2008	3/16/2009
Brant	U S Energy Development Corp.	31029255050000	Catalano 2	9/25/2008	12/18/2008
Brant	Pan Energy Company, Inc.	31029255260000	Pinker 2	6/27/2008	8/1/2008

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Erie					
Colden	U S Energy Development Corp.	31029253060000	Woloszyn 1	4/30/2008	10/29/2008
Collins	U S Energy Development Corp.	31029248520001	Funke 1A	2/27/2008	4/11/2008
Collins	U S Energy Development Corp.	31029248790001	Grimm 1A	2/27/2008	3/24/2008
Collins	U S Energy Development Corp.	31029251110000	Kuligowski 1	10/8/2008	11/28/2008
Collins	U S Energy Development Corp.	31029251140000	Heary 1	12/31/2008	2/16/2009
Collins	U S Energy Development Corp.	31029252420000	Hager 1	3/28/2008	3/30/2008
Collins	U S Energy Development Corp.	31029252430000	Timmel 4	10/9/2008	11/21/2008
Collins	U S Energy Development Corp.	31029252590000	Vance 4	2/26/2008	3/4/2008
Collins	U S Energy Development Corp.	31029252600000	Vance 5	2/26/2008	3/4/2008
Collins	U S Energy Development Corp.	31029252610000	Vance 6	2/26/2008	3/4/2008
Collins	U S Energy Development Corp.	31029252660000	Johnson 6	2/26/2008	3/4/2008
Collins	U S Energy Development Corp.	31029252670000	Zynda 3	3/28/2008	3/29/2008
Collins	U S Energy Development Corp.	31029252830000	Moran 1	12/19/2008	2/4/2009
Collins	U S Energy Development Corp.	31029252910000	Bates 1	4/30/2008	9/30/2008
Collins	U S Energy Development Corp.	31029253070000	Martindale 1	5/19/2008	8/22/2008
Collins	U S Energy Development Corp.	31029254540000	Bird 1	4/28/2008	10/10/2008
Collins	U S Energy Development Corp.	31029254560000	Muchnik 1	7/16/2008	8/14/2008
Collins	Pan Energy Company, Inc.	31029255500000	Mammoser 1	7/22/2008	11/3/2008
Collins	U S Energy Development Corp.	31029256020000	Dibiasi 6	9/24/2008	1/20/2009
Collins	U S Energy Development Corp.	31029257040000	Czerwiec 1	12/18/2008	2/4/2009
Collins	U S Energy Development Corp.	31029257320000	Zureck 1	12/31/2008	2/4/2009
Concord	U S Energy Development Corp.	31029250970000	Raber 1	3/26/2008	5/9/2008
Concord	U S Energy Development Corp.	31029251130000	Spaulding 1	2/5/2008	3/4/2008
Concord	U S Energy Development Corp.	31029252440000	Deacon's Alliance 7	3/26/2008	3/28/2008
Concord	U S Energy Development Corp.	31029252450000	Emerling 3	2/15/2008	2/23/2008
Concord	U S Energy Development Corp.	31029252460000	Renzi 1	2/15/2008	2/23/2008
Concord	U S Energy Development Corp.	31029252760000	Narraway 1	4/28/2008	9/15/2008
Concord	U S Energy Development Corp.	31029254530000	Henry 1	4/30/2008	8/8/2008
Concord	U S Energy Development Corp.	31029254580000	Fornes 2	5/2/2008	10/31/2008
Concord	U S Energy Development Corp.	31029256040000	Ballachino 1	10/8/2008	3/16/2009
Eden	U S Energy Development Corp.	31029252050000	Hoelscher 1	3/31/2008	7/18/2008
Eden	U S Energy Development Corp.	31029252060000	Hoelscher 2	3/31/2008	7/16/2008
Eden	Subsea Oil & Gas, Inc.	31029255410000	Jans 2	7/3/2008	8/7/2008
Eden	U S Energy Development Corp.	31029256910000	Doyle 1	11/24/2008	2/4/2009
Evans	Chautauqua Energy, Inc.	31029252560000	Penfold 1	5/27/2008	7/28/2008
North Collins	U S Energy Development Corp.	31029250680000	Muehlbauer 1	3/13/2008	3/25/2008
North Collins	U S Energy Development Corp.	31029251780000	Eder 2	4/1/2008	5/21/2008
North Collins	U S Energy Development Corp.	31029251790000	Eder 3	4/1/2008	6/9/2008
North Collins	U S Energy Development Corp.	31029251800000	Kelly 1	2/12/2008	2/19/2008
North Collins	U S Energy Development Corp.	31029251840000	Allen 1	2/15/2008	2/23/2008
North Collins	U S Energy Development Corp.	31029251920000	Dix 1	2/12/2008	2/19/2008
North Collins	U S Energy Development Corp.	31029251930000	Dix 2	2/12/2008	2/19/2008

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Erie					
North Collins	U S Energy Development Corp.	31029251940000	Geiger 1	2/12/2008	2/19/2008
North Collins	U S Energy Development Corp.	31029251950000	Nagy 1	3/31/2008	3/29/2008
North Collins	U S Energy Development Corp.	31029252070000	Haberer 1	3/19/2008	3/25/2008
North Collins	U S Energy Development Corp.	31029252080000	Schmitz 2	3/19/2008	3/24/2008
North Collins	U S Energy Development Corp.	31029252470000	Brenner 6	2/15/2008	2/23/2008
North Collins	U S Energy Development Corp.	31029252480000	Hidy 1	2/15/2008	2/23/2008
North Collins	U S Energy Development Corp.	31029252490000	Schmitt 1	3/27/2008	3/30/2008
North Collins	U S Energy Development Corp.	31029252500000	Spicola 3	2/15/2008	2/22/2008
North Collins	U S Energy Development Corp.	31029252510000	Wutz 1	11/6/2008	2/4/2009
North Collins	U S Energy Development Corp.	31029252620000	Schermerhorn 1	3/19/2008	3/25/2008
North Collins	U S Energy Development Corp.	31029252630000	Schermerhorn 2	3/19/2008	3/25/2008
North Collins	U S Energy Development Corp.	31029252770000	Bayerl 3	9/24/2008	11/17/2008
North Collins	U S Energy Development Corp.	31029253340000	Awald 1	4/28/2008	7/28/2008
North Collins	U S Energy Development Corp.	31029253350000	Bloom 1	4/28/2008	7/25/2008
North Collins	U S Energy Development Corp.	31029255270000	Krall 1	6/18/2008	
North Collins	Pan Energy Company, Inc.	31029255510000	Lena 1	7/22/2008	9/8/2008
North Collins	U S Energy Development Corp.	31029255950000	Eder 4	10/15/2008	2/5/2009
North Collins	Pan Energy Company, Inc.	31029256710000	Epiphany 1	11/4/2008	1/15/2009
North Collins	U S Energy Development Corp.	31029256830000	Piegniet 1	11/17/2008	3/25/2009
North Collins	U S Energy Development Corp.	31029256840000	McMahon 1	11/26/2008	
North Collins	U S Energy Development Corp.	31029257120000	Wutz 2	12/8/2008	3/24/2009
Wales	U S Energy Development Corp.	31029252530000	Lane 1	2/20/2008	7/31/2008
Wales	U S Energy Development Corp.	31029252540000	Shaffer 1	12/11/2008	3/25/2009
Wales	U S Energy Development Corp.	31029252550000	Weber 1	9/24/2008	
Wales	U S Energy Development Corp.	31029256390000	Simons 1	10/16/2008	3/24/2009
Wales	U S Energy Development Corp.	31029256410000	Hoffman 7	10/16/2008	3/25/2009
Wales	U S Energy Development Corp.	31029256470000	Simons 3	11/5/2008	
Wales	U S Energy Development Corp.	31029256580000	Keem 1	11/13/2008	1/29/2009
Wales	U S Energy Development Corp.	31029256600000	Hudson 2	10/24/2008	3/24/2009
Wales	U S Energy Development Corp.	31029256720000	Winch 1	11/12/2008	3/25/2009
Wales	U S Energy Development Corp.	31029256730000	Kopp 1	11/19/2008	2/4/2009
Wales	U S Energy Development Corp.	31029256740000	Pitkin 2	11/19/2008	2/4/2009
Wales	U S Energy Development Corp.	31029256750000	Pitkin 3	11/18/2008	2/4/2009
Wales	U S Energy Development Corp.	31029256760000	Pitkin 5	12/31/2008	3/24/2009
Wales	U S Energy Development Corp.	31029256770000	Pitkin 6	12/31/2008	3/24/2009
Wales	U S Energy Development Corp.	31029257050000	Keem 4	12/31/2008	1/19/2009
Wales	U S Energy Development Corp.	31029257110000	Kopp 2	12/12/2008	2/5/2009
Wales	U S Energy Development Corp.	31029257190000	Brachmann 1	12/31/2008	2/6/2009
Wales	U S Energy Development Corp.	31029257210000	Kirsch 2	12/31/2008	2/9/2009
Wales	U S Energy Development Corp.	31029257220000	Monheim 1	12/31/2008	3/11/2009
Wales	U S Energy Development Corp.	31029257230000	Tober 1	12/31/2008	2/5/2009

Genesee

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Genesee					
Darien	New York Gas & Oil Co, Inc.	31037260620000	Wasikowski 1	1/15/2008	7/7/2008
Darien	New York Gas & Oil Co, Inc.	31037260630000	Burkhardt 1	6/4/2008	8/22/2008
Darien	Alden Aurora Gas Co., Inc.	31037261000000	Zoladz 4	4/21/2008	8/22/2008
Darien	Alden Aurora Gas Co., Inc.	31037261430000	Zoladz 5	6/25/2008	8/20/2008
Le Roy	Leroy Central School District	31037260710000	Fee 5	5/8/2008	7/30/2008
Le Roy	Leroy Central School District	31037260720000	Fee 6	5/8/2008	7/31/2008
Madison					
Eaton	Nornew, Inc.	31053260650000	Carhart 1H	8/26/2008	
Eaton	Nornew, Inc.	31053260760000	Carhart 2H	1/28/2008	3/22/2008
Lebanon	Nornew, Inc.	31053238690000	Dromgoole 5-330	4/29/2008	6/9/2008
Lebanon	Nornew, Inc.	31053239720000	Wedge 5-332	1/9/2008	5/12/2008
Lebanon	Nornew, Inc.	31053260570000	Keller 2H	2/13/2008	3/1/2008
Lebanon	Nornew, Inc.	31053260640000	Coger 1 H	1/2/2008	3/6/2008
Lebanon	Nornew, Inc.	31053260890100	Lamb 1A-H	6/11/2008	7/2/2008
Lebanon	Nornew, Inc.	31053261040000	Klis 1H	9/5/2008	10/7/2008
Lebanon	Nornew, Inc.	31053261050000	Mulligan 1	4/29/2008	5/21/2008
Lebanon	Nornew, Inc.	31053261590000	Parteko 3H	8/28/2008	10/18/2008
Lebanon	Nornew, Inc.	31053262100000	Pike 1H	10/17/2008	10/28/2008
Lebanon	Nornew, Inc.	31053262100001	Pike 1H	11/10/2008	
Lebanon	Nornew, Inc.	31053262510000	Croce, J. 1H	10/27/2008	11/5/2008
Lebanon	Nornew, Inc.	31053262830000	Bramburger, C. 2H	12/9/2008	2/5/2009
New York					
Manhattan	471 Washington Street Partners	31061237560001	W-1	1/16/2008	2/28/2008
Manhattan	471 Washington Street Partners	31061237570001	W-2	1/16/2008	2/13/2008
Manhattan	471 Washington Street Partners	31061237580001	W-3	1/16/2008	3/10/2008
Manhattan	Ancona, Jack	31061237640000	Geothermal 1	5/7/2008	8/19/2008
Manhattan	Ancona, Jack	31061237650000	Geothermal 2	5/7/2008	8/20/2008
Manhattan	Moinian, Joseph	31061237700000	W-1	5/16/2008	7/17/2008
Manhattan	East 93rd Street LLC	31061237710000	1	6/4/2008	7/22/2008
Manhattan	Columbia University	31061237770000	W-1	5/7/2008	
Manhattan	Columbia University	31061237770001	W-1	11/6/2008	11/14/2008
Manhattan	Columbia University	31061237780000	W-2	5/7/2008	10/17/2008
Manhattan	Columbia University	31061237790000	W-3	5/7/2008	9/22/2008
Manhattan	Columbia University	31061237800000	W-4	5/7/2008	8/28/2008
Manhattan	RI Group, LLC	31061237810000	W-1	6/4/2008	
Onondaga					
Pompey	Carrizo Oil & Gas, Inc.	31067262070000	Dennis 1	12/19/2008	
Ontario					
East Bloomfield	Seneca Resources Corp.	31069261300000	Beard 1 (38473)	6/17/2008	8/13/2008
East Bloomfield	Seneca Resources Corp.	31069261310000	Lane 2 (38474)	7/24/2008	8/5/2008
East Bloomfield	Seneca Resources Corp.	31069261320000	Lane 1 (38471)	6/13/2008	7/31/2008

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Ontario					
East Bloomfield	Seneca Resources Corp.	31069261370000	Lincoln 2 (38475)	6/13/2008	7/24/2008
East Bloomfield	Seneca Resources Corp.	31069261530000	Steele 1 (38472)	6/17/2008	7/28/2008
Seneca	Chesapeake Appalachia, L.L.C.	31069261500000	Blowers 1 (626941)	6/24/2008	7/3/2008
Schuyler					
Dix	Cargill, Inc.	31097260780000	Cargill 30	3/11/2008	3/15/2008
Dix	Cargill, Inc.	31097260800000	Cargill 31	3/11/2008	4/7/2008
Hector	Chesapeake Appalachia, L.L.C.	31097261750000	Wright 1 (626385)	11/18/2008	
Reading	Inergy Midstream, LLC	31097529320001	Well 33	10/21/2008	10/30/2008
Reading	Inergy Midstream, LLC	31097611900001	Well 34	10/23/2008	11/7/2008
Reading	Inergy Midstream, LLC	31097611910001	Well 35	10/21/2008	
Reading	Inergy Midstream, LLC	31097611920001	Well 36	10/21/2008	
Reading	Inergy Midstream, LLC	31097611930001	Well 37	6/2/2008	6/23/2008
Reading	Inergy Midstream, LLC	31097611940001	Well 38	2/27/2008	5/7/2008
Reading	Inergy Midstream, LLC	31097611970001	Well 41	10/21/2008	
Reading	Inergy Midstream, LLC	31097611990001	Well 43	10/23/2008	12/2/2008
Reading	Inergy Midstream, LLC	31097612000001	Well 44	10/23/2008	11/4/2008
Seneca					
Fayette	Chesapeake Appalachia, L.L.C.	31099239380000	Martin, L.2 (626016)	3/19/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099239420000	Zimmerman 1 (625034)	2/1/2008	4/6/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099239530000	Kime 4 (626287)	3/11/2008	4/12/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099260840000	Nolt 2 (626279)	2/7/2008	4/15/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261070000	Gillan 1 (626395)	3/21/2008	4/29/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261120000	Martin 3 (626811)	4/3/2008	5/7/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261140000	Murray 3 (626809)	4/3/2008	5/11/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261190000	L. Martin 2 (626016)	4/18/2008	4/24/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261200000	Kime 1 (626886)	4/29/2008	5/22/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261210000	Martin 5 (625029)	4/29/2008	5/18/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261220000	Martin 6 (625030)	4/29/2008	5/15/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261260000	Stoltzfus 1 (626897)	5/13/2008	6/7/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261270000	Harris 2 (626895)	5/13/2008	5/30/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261280000	Harris 3 (626896)	5/13/2008	6/4/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261330000	Martin 7 (626909)	5/21/2008	6/16/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261340000	Murray 1 (626282)	5/21/2008	6/11/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261360000	Peterman 1 (626933)	6/6/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099261390000	Martin 8 (626917)	6/6/2008	6/22/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261400000	Poormon 1 (626923)	6/6/2008	6/29/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261410000	Murray 4 (626927)	6/6/2008	6/26/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261700000	Martin 9 (626916)	7/16/2008	7/22/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261710000	Parker 1 (626944)	7/16/2008	7/31/2008
Fayette	Chesapeake Appalachia, L.L.C.	31099261820000	Marr 1 (626929)	9/16/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262270000	Kime 2 (627000)	9/16/2008	

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Seneca					
Fayette	Chesapeake Appalachia, L.L.C.	31099262390000	Poormon 2 (626924)	9/16/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262400000	Poormon 1 (626925)	9/16/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262410000	Martin 4 (626998)	9/16/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262420000	FFI Farms 1 (627056)	9/16/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262450000	Jensen 1 (626394)	10/15/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262470000	DJ Farms 1 (626931)	10/15/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262590000	DJ Farms 3 (627242)	11/5/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262600000	DJ Farms 4 (627243)	11/5/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262610000	DJ Farms 5 (627244)	11/5/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262620000	DJ Farms 6 (627245)	11/5/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262630000	Burkholder 1(627209)	11/7/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262690000	Fox 1 (627247)	11/19/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262720000	Martin 19 (627319)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262730000	Martin 17 (627318)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262740000	Martin 16 (627205)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262750000	Martin 15 (627204)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262760000	Martin 14 (627206)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262780000	Lott 2 (627340)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262790000	Lott 3 (627341)	11/25/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262860000	Partee 2 (627271)	12/18/2008	
Fayette	Chesapeake Appalachia, L.L.C.	31099262890000	Martin 18 (627272)	12/18/2008	
Varick	Chesapeake Appalachia, L.L.C.	31099239560000	Swartley 1 (626342)	3/21/2008	4/18/2008
Varick	Chesapeake Appalachia, L.L.C.	31099261130000	Montagna 1 (626810)	4/3/2008	5/3/2008
Varick	Chesapeake Appalachia, L.L.C.	31099261640000	Smoker 1 (626922)	7/8/2008	7/15/2008
Varick	Chesapeake Appalachia, L.L.C.	31099261830000	Heitmann 1 (626928)	11/19/2008	
Varick	Chesapeake Appalachia, L.L.C.	31099262280000	Dickenson 1 (627055)	11/19/2008	
Varick	Chesapeake Appalachia, L.L.C.	31099262460000	Smoker 2 (626997)	10/15/2008	
Varick	Chesapeake Appalachia, L.L.C.	31099262480000	Karlsen 1 (626398)	10/15/2008	
Varick	Chesapeake Appalachia, L.L.C.	31099262490000	Smoker 3 (627068)	10/15/2008	
St Lawrence					
Ogdensburg	Riverbank Power Corp.	31089261860000	Riverbank OG-DR-1	10/22/2008	
Steuben					
Bath	Inergy Midstream, LLC	31101026980100	Blair 2-A	1/9/2008	2/20/2008
Bath	Inergy Midstream, LLC	31101215980001	Well 2A	12/8/2008	12/11/2008
Bath	Fortuna Energy Inc.	31101260430100	Rush 1A	6/27/2008	6/29/2008
Bath	Arlington Storage Company, LLC	31101260900000	Mullins 03	2/27/2008	4/24/2008
Bath	Arlington Storage Company, LLC	31101260910000	Mullins 02	2/27/2008	4/18/2008
Campbell	Fortuna Energy Inc.	31101260730000	Bosket 1	1/23/2008	3/27/2008
Campbell	Fortuna Energy Inc.	31101260730100	Bosket 1A	5/9/2008	5/8/2008
Caton	Fortuna Energy Inc.	31101229630301	Maxwell 1C	1/15/2008	6/2/2008
Caton	East Resources, Inc.	31101260880000	Drake C 1	5/20/2008	8/5/2008

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Steuben					
Prattsburg	Chesapeake Appalachia, L.L.C.	31101262150000	Peck, M. (626912) 1	9/15/2008	
Troupsburg	Quest Eastern Resource	31101260140001	Carpenter 1	5/23/2008	8/8/2007
West Union	Nathan Petroleum Corp.	31101260990000	Mullen 1	3/17/2008	4/16/2008
West Union	Yahn & Yahn Inc.	31101261250000	Edlind 19	5/7/2008	5/13/2008
West Union	Yahn & Yahn Inc.	31101261840000	Schultz 14A	9/4/2008	11/25/2008
West Union	Nathan Petroleum Corp.	31101262220000	Edwards II 43	9/10/2008	11/13/2008
West Union	Nathan Petroleum Corp.	31101262230000	Edwards II 49	9/10/2008	11/6/2008
West Union	Nathan Petroleum Corp.	31101262710000	Sampson 1	12/1/2008	12/11/2008
Wheeler	Chesapeake Appalachia, L.L.C.	31101262520000	Chetney 1 (626948)	12/11/2008	
Wheeler	Chesapeake Appalachia, L.L.C.	31101262580000	Family Life Ministries (626949) 1	12/10/2008	
Tioga					
Candor	Fortuna Energy Inc.	31107239450001	Condens 1	10/22/2008	
Candor	Fortuna Energy Inc.	31107261650000	Hull 1	8/27/2008	9/23/2008
Nichols	PetroEdge Resources WV LLC	31107261020000	Berry 1	3/30/2008	
Nichols	PetroEdge Resources WV LLC	31107261030000	Ketchum 1	3/30/2008	
Owego	MegaEnergy Operating Inc.	31107261570000	Strong 1	12/11/2008	
Owego	MegaEnergy Operating Inc.	31107261580000	Eaton 1	12/11/2008	
Tioga	Chesapeake Appalachia, L.L.C.	31107229340101	Manwaring 1-B (624470)	2/28/2008	
Tioga	Chesapeake Appalachia, L.L.C.	31107229740001	TGS Holdings 624831	5/13/2008	
Tompkins					
Lansing	Anschutz Exploration Corporation	31109260390100	Barron 1A	1/5/2008	1/7/2008
Lansing	Anschutz Exploration Corporation	31109260600000	Cook E 1	3/5/2008	
Wayne					
Butler	Lenape Resources, Inc.	31117239170000	Butler Creek (High) 1	10/21/2008	
Butler	Lenape Resources, Inc.	31117239220000	Legasse Road (Sanzotta) 1	10/21/2008	
Butler	Lenape Resources, Inc.	31117239260000	South Mill Pond (High) 1	10/21/2008	11/19/2008
Westchester					
New Rochelle	180 Union Avenue Owner LP	31119237720000	SCW 1	5/13/2008	9/8/2008
New Rochelle	180 Union Avenue Owner LP	31119237730000	SCW 2	5/13/2008	7/10/2008
New Rochelle	180 Union Avenue Owner LP	31119237740000	SCW 3	5/13/2008	8/21/2008
New Rochelle	180 Union Avenue Owner LP	31119237750000	SCW 4	5/13/2008	9/2/2008
New Rochelle	180 Union Avenue Owner LP	31119237760000	SCW 5	5/13/2008	9/8/2008
Wyoming					
Eagle	New York Gas & Oil Co, Inc.	31121252920000	Brown 1	3/7/2008	4/7/2008
Middlebury	Texas Brine Company, LLC	31121252140000	Texas Brine 73	6/13/2008	7/31/2008
Middlebury	Texas Brine Company, LLC	31121252150000	Texas Brine 75	6/13/2008	7/21/2008
Middlebury	Texas Brine Company, LLC	31121252160000	Texas Brine 91	6/13/2008	9/26/2008
Middlebury	Texas Brine Company, LLC	31121252170000	Texas Brine 92	6/13/2008	9/10/2008
Middlebury	Texas Brine Company, LLC	31121252180000	Texas Brine 93	6/13/2008	9/4/2008
Middlebury	Texas Brine Company, LLC	31121252190000	Texas Brine 101	6/13/2008	8/14/2008
Middlebury	Texas Brine Company, LLC	31121252200000	Texas Brine 102	6/13/2008	8/25/2008

Permits Issued During 2008

Town	Company	API Number	Well Name	Issue Date	Spud Date
Wyoming					
Middlebury	Occidental Chemical Corp	31121253080000	Hooker 163	3/18/2008	6/1/2008
Middlebury	Occidental Chemical Corp	31121253090000	Hooker 164	3/18/2008	5/26/2008
Middlebury	Occidental Chemical Corp	31121253100000	Hooker 165	3/18/2008	5/20/2008
Middlebury	Occidental Chemical Corp	31121253110000	Hooker 181	3/18/2008	5/10/2008
Middlebury	Occidental Chemical Corp	31121253120000	Hooker 183	3/18/2008	4/27/2008
Yates					
Barrington	Chesapeake Appalachia, L.L.C.	31123260770000	Lewis 1 (626774)	1/22/2008	3/6/2008
Barrington	Chesapeake Appalachia, L.L.C.	31123260770100	Lewis 1-A (626774)	4/28/2008	4/30/2008
Barrington	Chesapeake Appalachia, L.L.C.	31123260810000	Cleon Martin 1	2/7/2008	5/23/2008
Barrington	Chesapeake Appalachia, L.L.C.	31123260950000	Weaver 1 (626773)	3/17/2008	6/23/2008
Barrington	Chesapeake Appalachia, L.L.C.	31123261240000	Olsyn 1 (626887)	5/13/2008	
Barrington	Chesapeake Appalachia, L.L.C.	31123261350000	Dubowyk 1 (626785)	6/3/2008	
Barrington	Chesapeake Appalachia, L.L.C.	31123261630000	Cook 1 (626940)	7/8/2008	8/4/2008

Drilled Wildcats and Field Extensions, 2008

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Allegany County								
Hume	Petroleum Development Corporatio	31003250560001	Hinz R & B 1A	7,485	2/14/2008	GW	New Field Wildcat	Theresa
Willing	Pennsylvania General Energy Com	31003252860000	Dean, EF 2058	4,956	4/30/2008	GW	New Field Wildcat	Oriskany
Broome County								
Kirkwood	Chesapeake Appalachia, L.L.C.	31007229950101	Beagell 2-B (625347)	4,800	4/9/2008	GW	New Field Wildcat	Marcellus
Cattaraugus County								
Ashford	Nornew, Inc.	31009251330000	Ashford Properties 1	6,090	3/5/2008	GW	New Field Wildcat	Theresa
Ashford	Nornew, Inc.	31009251330100	Ashford Properties 1A	5,900	8/4/2008	GW	New Field Wildcat	Theresa
Napoli	PC Exploration, Inc.	31009254590000	Adams/Raber 1	7,301	6/21/2008	GW	New Field Wildcat	Black River
Napoli	PC Exploration, Inc.	31009254590001	Adams/Raber 1A	4,485	6/21/2008	GW	New Field Wildcat	Medina
Yorkshire	Nornew, Inc.	31009251000000	Berger 1	6,585	2/16/2008	GW	New Field Wildcat	Theresa
Yorkshire	Nornew, Inc.	31009255030000	Petri 1	6,356	9/3/2008	GW	New Field Wildcat	Theresa
Yorkshire	Nornew, Inc.	31009255250000	Emerling 1	6,431	8/22/2008	GW	New Field Wildcat	Theresa
Cayuga County								
Sempronius	Chesapeake Appalachia, L.L.C.	31011262030000	Atwood 1 (627001)	6,000	11/17/2008	GW	New Field Wildcat	Trenton
Sempronius	Chesapeake Appalachia, L.L.C.	31011262040000	Thilburg 1 (627007)	6,020	12/11/2008	GW	New Field Wildcat	Trenton
Chautauqua County								
Poland	Universal Resources Holdings, Inc.	31013255020000	Carlson Bros 1	3,021	6/16/2008	OW	Lakeshore	Onondaga
Chemung County								
Baldwin	Chesapeake Appalachia, L.L.C.	31015260580000	Stage 1 (626470)	10,490	2/28/2008	GW	New Field Wildcat	Black River
Baldwin	Chesapeake Appalachia, L.L.C.	31015260970000	Sullivan 1 (626472)	4,042	8/19/2008	GW	New Field Wildcat	Oriskany
Baldwin	Chesapeake Appalachia, L.L.C.	31015260980000	Kinsman 1 (626468)	4,375	8/1/2008	GW	New Field Wildcat	Oriskany
Big Flats	East Resources, Inc.	31015260360000	Rhodes 1	10,295	1/23/2008	GW	New Field Wildcat	Black River
Elmira	East Resources, Inc.	31015260740000	Gutchess 1	10,320	11/3/2008	GE	Langdon Hill	Black River

Drilled Wildcats and Field Extensions, 2008

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Chemung County								
Elmira	Fortuna Energy Inc.	31015260850000	Bush S 1	3,147	3/11/2008	GW	New Field Wildcat	Marcellus
Elmira	East Resources, Inc.	31015261230000	Cotton Hanlon 4	10,446	10/5/2008	GW	New Field Wildcat	Black River
Erin	Chesapeake Appalachia, L.L.C.	31015260370000	Nowlan 1 (626469)	10,106	1/4/2008	GE	Langdon Hill	Black River
Erin	Chesapeake Appalachia, L.L.C.	31015261680000	Harmyk 1 (626832)	10,155	11/10/2008	GE	Langdon Hill	Trenton
Horseheads	Fortuna Energy Inc.	31015260960000	Allington M 1	9,685	6/6/2008	GW	Latta Brook	Black River
Horseheads	Anschutz Exploration Corporation	31015261960000	The Center at Horseheads	9,300	11/24/2008	GW	New Field Wildcat	Black River
Southport	East Resources, Inc.	31015260080100	Farmer 1-A	10,416	2/9/2008	GW	New Field Wildcat	Black River
Southport	East Resources, Inc.	31015260080200	Farmer 1-B	10,370	2/17/2008	GW	New Field Wildcat	Black River
Van Etten	Fortuna Energy Inc.	31015260940000	Poysa E 1	9,521	8/20/2008	GE	McDuffy Hollow	Black River
Van Etten	Fortuna Energy Inc.	31015261420000	Bean E. 1	9,606	10/5/2008	GW	Skye-Top	Black River
Veteran	Fortuna Energy Inc.	31015260920000	Victor 1	9,649	11/18/2008	GE	Brick House	Black River
Chenango County								
Coventry	Nornew, Inc.	31017261520000	Houben 1H	5,920	9/21/2008	GW	New Field Wildcat	Herkimer
Coventry	Nornew, Inc.	31017261520001	Houben 1H	5,954	9/22/2008	GW	New Field Wildcat	Herkimer
Oxford	Nornew, Inc.	31017260500000	Romahn 1	5,200	7/4/2008	GW	New Field Wildcat	Oneida
Oxford	Nornew, Inc.	31017261170000	Parker 1	3,139	10/4/2008	GW	New Field Wildcat	Marcellus
Preston	Nornew, Inc.	31017239970000	Palmatier 1	4,886	6/21/2008	GW	New Field Wildcat	Oneida
Preston	Nornew, Inc.	31017239980000	Howe 1	4,511	8/3/2008	GW	New Field Wildcat	Oneida
Preston	Nornew, Inc.	31017260490000	Blood 1	4,950	4/26/2008	GW	New Field Wildcat	Oneida
Preston	Nornew, Inc.	31017260550000	Doty 1	5,308	6/8/2008	GW	New Field Wildcat	Oneida
Smyrna	Nornew, Inc.	31017231370100	Thompson 1HA	3,623	9/9/2008	GE	Hawley Brook Field	Herkimer
Smyrna	Nornew, Inc.	31017260180000	Blasi 1-H	3,535	2/20/2008	GE	Hawley Brook Field	Herkimer
Smyrna	Nornew, Inc.	31017260220000	Anderson 2H	3,472	1/17/2008	GE	Hawley Brook Field	Herkimer
Smyrna	Nornew, Inc.	31017260350000	Rossi 2	4,118	7/24/2008	GE	Beaver Meadow	Oneida

Drilled Wildcats and Field Extensions, 2008

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Chenango County								
Smyrna	Nornew, Inc.	31017260790000	Krawiec 2	6,356	7/15/2008	GW	New Field Wildcat	Potsdam
Smyrna	Nornew, Inc.	31017260820000	Smyrna Hillbillies 1-559	3,841	4/29/2008	GW	New Field Wildcat	Oneida
Smyrna	Nornew, Inc.	31017261610000	Peebles 2H	2,061	9/30/2008	GW	New Field Wildcat	Onondaga
Smyrna	Nornew, Inc.	31017261870000	Krawiec 1H	3,467	9/22/2008	GE	Hawley Brook Field	Herkimer
Smyrna	Nornew, Inc.	31017262080000	Corey, F. 1H	2,800	10/23/2008	GW	New Field Wildcat	Herkimer
Smyrna	Nornew, Inc.	31017262090000	Miles, R. 1H	2,686	11/15/2008	GW	New Field Wildcat	Herkimer
Erie County								
Collins	U S Energy Development Corp.	31029248520001	Funke 1A	3,150	5/19/2008	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029248790001	Grimm 1A	3,170	4/10/2008	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029252420000	Hager 1	2,763	6/16/2008	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029252670000	Zynda 3	2,825	6/3/2008	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029252910000	Bates 1	2,800	10/8/2008	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029254560000	Muchnik 1	3,075	8/26/2008	GW	New Field Wildcat	Medina
Concord	U S Energy Development Corp.	31029252440000	Deacon's Alliance 7	3,125	10/8/2008	GW	New Field Wildcat	Medina
Concord	U S Energy Development Corp.	31029254530000	Henry 1	4,160	8/12/2008	GW	New Field Wildcat	Utica
Madison County								
Eaton	Nornew, Inc.	31053260440000	Hillage 2H	2,265	4/12/2008	GW	New Field Wildcat	Herkimer
Eaton	Nornew, Inc.	31053260760000	Carhart 2H	2,295	4/4/2008	GW	New Field Wildcat	Herkimer
Lebanon	Nornew, Inc.	31053238690000	Dromgoole 5-330	3,500	6/18/2008	GE	Bradley Brook	Oneida
Lebanon	Nornew, Inc.	31053239720000	Wedge 5-332	3,385	5/20/2008	GE	Bradley Brook	Oneida
Lebanon	Nornew, Inc.	31053260230000	South Jamestown 2H	2,404	2/23/2008	GW	New Field Wildcat	Herkimer
Lebanon	Nornew, Inc.	31053260570000	Keller 2H	3,075	3/18/2008	GW	New Field Wildcat	Herkimer
Lebanon	Nornew, Inc.	31053260640000	Coger 1 H	2,156	3/28/2008	GW	New Field Wildcat	Herkimer
Lebanon	Nornew, Inc.	31053260890100	Lamb 1A-H	2,124	8/9/2008	GE	Bradley Brook	Herkimer

Drilled Wildcats and Field Extensions, 2008

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Madison County								
Lebanon	Nornew, Inc.	31053261040000	Klis 1H	2,480	10/17/2008	GE	Bradley Brook	Herkimer
Lebanon	Nornew, Inc.	31053261050000	Mulligan 1	5,796	6/3/2008	GW	New Field Wildcat	Potsdam
Lebanon	Nornew, Inc.	31053261590000	Parteko 3H	2,730	11/5/2008	GE	Lebanon	Herkimer
Lebanon	Nornew, Inc.	31053262100000	Pike 1H	2,883	11/11/2008	GW	New Field Wildcat	Herkimer
Lebanon	Nornew, Inc.	31053262510000	Croce, J. 1H	2,775	12/11/2008	GW	New Field Wildcat	Herkimer
Ontario County								
Seneca	Chesapeake Appalachia, L.L.C.	31069261500000	Blowers 1 (626941)	2,805	7/11/2008	GW	New Field Wildcat	Queenston
Steuben County								
Bath	Fortuna Energy Inc.	31101260430000	Rush 1	9,191	6/27/2008	GW	New Field Wildcat	Black River
Bath	Fortuna Energy Inc.	31101260430100	Rush 1A	9,234	7/6/2008	GW	Lamoka	Black River
Campbell	Fortuna Energy Inc.	31101260730000	Bosket 1	8,765	5/7/2008	GW	New Field Wildcat	Black River
Campbell	Fortuna Energy Inc.	31101260730100	Bosket 1A	8,785	5/17/2008	GW	Dry Run Creek	Black River
Caton	Fortuna Energy Inc.	31101229630301	Maxwell 1C	4,635	6/2/2008	GW	Deyo	Marcellus
Caton	East Resources, Inc.	31101260610000	Clark 1	11,514	3/14/2008	GW	New Field Wildcat	Black River
Caton	East Resources, Inc.	31101260880000	Drake C 1	11,136	9/13/2008	GE	Caton	Black River
Troupsburg	Quest Eastern Resource	31101260090001	Cook 1	4,878	2/25/2008	GW	Card School	Marcellus
Urbana	Eastern American Energy Corp.	31101231510101	McDaniels 1-A	4,450	3/7/2008	GW	New Field Wildcat	Marcellus
Tompkins County								
Lansing	Anschutz Exploration Corporation	31109260390100	Barron 1A	6,651	1/14/2008	GW	New Field Wildcat	Black River
Lansing	Anschutz Exploration Corporation	31109260560000	Lansing T 1	6,119	2/19/2008	GW	New Field Wildcat	Black River
Wayne County								
Butler	Lenape Resources, Inc.	31117239260000	South Mill Pond (High) 1	2,834	12/2/2008	GE	Millpond	Trenton
Wyoming County								
Eagle	New York Gas & Oil Co, Inc.	31121252920000	Brown 1	3,990	5/12/2008	GW	New Field Wildcat	Medina

Drilled Wildcats and Field Extensions, 2008

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Yates County								
Barrington	Chesapeake Appalachia, L.L.C.	31123260770000	Lewis 1 (626774)	9,250	4/26/2008	GW	New Field Wildcat	Potsdam
Barrington	Chesapeake Appalachia, L.L.C.	31123260770100	Lewis 1-A (626774)	7,217	5/18/2008	GW	New Field Wildcat	Black River
Barrington	Chesapeake Appalachia, L.L.C.	31123260810000	Cleon Martin 1	7,142	6/23/2008	GW	New Field Wildcat	Black River
Barrington	Chesapeake Appalachia, L.L.C.	31123260950000	Weaver 1 (626773)	6,887	7/28/2008	GE	Sunset Point	Black River
Barrington	Chesapeake Appalachia, L.L.C.	31123261630000	Cook 1 (626940)	4,075	8/24/2008	GW	New Field Wildcat	Queenston

New York State Oil, Gas and Mineral Resources 2008

Appendix 2 – Mined Land Data

**New York State
Department of Environmental Conservation
Division of Mineral Resources
625 Broadway
Albany, New York 12233-6500**

www.dec.ny.gov



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Mined Land Permits Issued During 2008¹ A-1

Mine Commodities 2008 B-1

1 The word “Part” under the “Town” column means the mine is located in more than one town.

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type *	MineID	Mine Name	Issue Date	Type	Acres Affected
Albany							
Bethlehem	Bethlehem, Town of	MINE	40023	Rupert Road Pit	12/30/2008	Renewal	9.0
Bethlehem	Peter K Frueh Inc	MINE	40815	Frueh Mine Site	6/26/2008	Modification	5.3
Coeymans	Lafarge North America Cement	MINE	40032	Ravena Quarry	4/22/2008	Modification	768.0
Cohoes	Norlite Corp	MINE	40002	Norlite-Cohoes Shale/Clay Pit	2/1/2008	Modification	78.0
Allegany							
Alfred	Buffalo Crushed Stone Inc	MINE	90004	Alfred Sand And Gravel	2/14/2008	Renewal	114.0
Almond	Almond Aggregates LLC	MINE	90517	Skuba Construction Materials Mine	9/23/2008	Renewal	45.0
Almond	Almond, Town of	MINE	90088	Bishopville Gravel Pit #3	12/16/2008	Renewal	10.0
Almond	Karr Valley Road Associates LL	MINE	90003	Almond Pit	3/25/2008	Renewal	22.0
Angelica	Angelica, Town of	MINE	90624	Angelica Creek - West	1/11/2008	Renewal	3.0
Belfast	Allen, Town of	MINE	90998	Town of Allen Gravel Mine	8/5/2008	New	3.0
Belfast	Belfast Gravel Products Inc	MINE	90679	Belfast Road Site	7/28/2008	Renewal	51.0
Belfast	Belfast, Town of	MINE	90688	Genesee River Bar Mine	3/25/2008	Renewal	7.0
Clarksville	Clarksville, Town of	MINE	90033	Town Gravel Pit	7/21/2008	Renewal	16.0
Clarksville	Rondor Construction Products I	MINE	90194	Wolf Creek Rondor Pit	8/15/2008	Modification	8.0
Hume	Edelweiss Farm, dba/Edelrock G	MINE	90982	Hodnett Pit	11/5/2008	New	10.0
Wellsville	Otis Eastern Service Inc	MINE	90911	Trapping Brook	2/25/2008	Renewal	1.5
Broome							
Colesville	Gac Realty	MINE	70163	Windsor Mine- NYS Route 79	7/21/2008	Renewal	47.0
Conklin	Kenneth Decker	MINE	70867	D&D Bluestone Quarry	6/16/2008	Modification	14.9
Fenton	Tri-City Highway Products Inc	MINE	70503	Yary's Quarry	1/29/2008	Renewal	29.0
Sanford	Devonian Stone Of New York In	MINE	70830	Amendola Bluestone Quarry	6/16/2008	Modification	10.0
Sanford	Hubbell, Harold K	AUTH	70942	Hubbell Quarry	9/23/2008	New	1.0
Sanford	Kilmer, Herbert	MINE	70660	Marsh Pond Quarry	9/16/2008	New	33.2
Sanford	Naughton Naughton & King LL	AUTH	70922	NNK #1	4/1/2008	Renewal	1.0
Sanford	Schaefer Enterprises of Deposit	MINE	70838	McClure Pit	8/18/2008	Renewal	4.5
Sanford	Simply Stone LLC	AUTH	70930	Struble Quarry #2	9/19/2008	Renewal	1.0
Windsor	Balducci Bluestone LLC	MINE	70890	Anne Road Quarry	6/16/2008	Modification	8.0
Windsor	Coleman, Robert A	MINE	70815	Hawkins Pond Quarry	6/16/2008	Modification	10.0
Windsor	Damascus 535 Quarry & Stone	MINE	70016	Broome County Quarry, Ostrander Hill	6/16/2008	Modification	24.0
Windsor	Frank X Kamp Trust	MINE	70846	Frank Kamp Town Line Quarry	10/1/2008	Renewal	5.0
Windsor	Hobart, Richard	MINE	70873	Margaret Mine	8/1/2008	Renewal	1.0
Windsor	Keystone Bluestone Inc	AUTH	70944	State Line Road Quarry	7/28/2008	New	1.0

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Broome							
Windsor	Naughton Naughton & King LL	AUTH	70934	NNK #2	1/2/2008	New	1.0
Windsor	RPC Resources LLC	MINE	70787	Myers Mine	6/16/2008	Modification	8.3
Windsor	Timberland Resources LLC	AUTH	70939	Root Quarry	7/7/2008	New	1.0
Windsor	Timberland Resources LLC	AUTH	70943	Anne Road Quarry	8/20/2008	New	1.0
Cattaraugus							
Allegany	Allegany, Town of	MINE	90054	Old Lippert Pit	5/6/2008	Renewal	19.0
Allegany	I A Construction Corp	MINE	90019	Lippert Gravel Pit	3/25/2008	Renewal	98.0
Allegany	I A Construction Corp	MINE	90019	Lippert Gravel Pit	5/28/2008	Modification	98.0
Ashford	Ashford, Town of	MINE	90320	Ashford Town Mine #1	12/2/2008	Renewal	11.0
Dayton	Country Side Sand & Gravel Inc	MINE	90044	Country Side Site	7/10/2008	Renewal	625.0
East Otto	East Otto, Town of	MINE	90681	Thompson Road Gravel Pit	8/21/2008	Renewal	9.0
Farmersville	Buffalo Crushed Stone Inc	MINE	90569	Lake Chenango	9/9/2008	Renewal	1.0
Freedom	Lafarge North America Inc	MINE	90028	Freedom Pit	10/30/2008	Renewal	221.0
Great Valley	Brown, Corey W	MINE	90682	Corey Brown Gravel Pit	4/15/2008	Renewal	3.1
Little Valley	Little Valley Sand & Gravel	MINE	90905	NYS Route 353 Pit	12/2/2008	Renewal	5.0
Little Valley	Pease, Robert	MINE	90448	Pease Gravel Mine	12/29/2008	Modification	11.0
Little Valley	Pease, Robert	MINE	90448	Pease Gravel Mine	8/26/2008	Renewal	11.0
Machias	Lafarge North America Inc	MINE	90656	Shenk Mine	12/18/2008	Renewal	5.0
Mansfield	Little Valley Sand & Gravel	MINE	90220	Shale Mine	12/2/2008	Renewal	2.5
Napoli	Little Valley Sand & Gravel	MINE	90080	Rickert Pit	12/31/2008	Renewal	10.6
New Albion	Little Valley Sand & Gravel	MINE	90098	Little Valley Sand And Gravel Mine	10/22/2008	Renewal	37.6
Persia	Gernatt Asphalt Products Inc	MINE	90061	Point Peter Road Pit	7/10/2008	Renewal	22.0
Portville	I A Construction Corp	MINE	90120	Portville Sand And Gravel	4/1/2008	Modification	123.7
Yorkshire	Yorkshire Materials Inc	MINE	90556	Yorkshire Materials Mine	1/2/2008	Renewal	1.0
Cayuga							
Aurelius	Marcy Excavation Services LLC	MINE	70938	Cunningham Clay Mine	6/6/2008	New	4.5
Genoa	Caitlin Julia Enterprises LLC D	MINE	70715	Blakley Road Mine - Blakley Road	10/29/2008	Modification	23.7
Locke	H L Robinson Sand & Gravel In	MINE	70738	Mine 2 - NYS Route 38	2/29/2008	Modification	42.0
Locke	H L Robinson Sand & Gravel In	MINE	70738	Mine 2 - NYS Route 38	5/20/2008	Renewal	42.0
Locke	Marcy Excavation Services LLC	MINE	70929	Cat Path Road Clay Mine	5/23/2008	Modification	4.8
Chautauqua							
Carroll	Maple Grove Farms	MINE	90325	Maple Grove Farms Mine	10/22/2008	Renewal	4.0
Carroll	Tri-James Services Inc	MINE	90411	Cameron Mine	4/1/2008	Modification	18.0

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Chautauqua							
Chautauqua	Bittinger, Joseph Jr	MINE	90683	Bittinger Pit #1	11/14/2008	Renewal	3.5
Clymer	Clymer, Town of	MINE	90211	Bakerink Pit	3/25/2008	Renewal	10.0
Ellery	Chautauqua County DPW	MINE	90505	Ellery Earth Borrow Mine	8/26/2008	Renewal	19.0
Jamestown	Baker, Philip	MINE	90124	Fluvanna Gravel Pit	6/10/2008	Renewal	5.0
Mina	Beckerink, Matthew R	MINE	90580	Beckerink Gravel Pit	5/5/2008	Renewal	3.0
Pomfret	Chautauqua County	MINE	90204	Morse Mine	6/24/2008	Renewal	10.0
Pomfret	Country Side Sand & Gravel Inc	MINE	90315	Hubbard Pit	2/29/2008	Renewal	7.5
Pomfret	Dunkirk Power LLC	MINE	90552	Dunkirk SWMF Borrow Site	4/24/2008	Renewal	66.5
Sherman	Sherman, Town of	MINE	90987	Rater Pit	5/28/2008	New	1.6
Stockton	Masiker, Emery R	MINE	90493	Masiker Sand & Gravel Mine	8/26/2008	Renewal	10.0
Chemung							
Big Flats	Bowers, David	MINE	80712	Bowers Topsoil Pit	9/18/2008	Renewal	25.0
Big Flats	Roy, Milton Jr	MINE	80700	Sing Sing Rd Pit	7/16/2008	Modification	34.4
Big Flats	Smith, Michael M	MINE	80827	Smith Pit	3/31/2008	New	5.0
Big Flats	Vanderhoff, Larry	MINE	80662	Big Flats Pit	7/11/2008	Renewal	13.4
Erin	Chemung County Highway Dept	MINE	80357	Chemung Co, Farm	7/26/2008	Renewal	8.6
Southport	Bowers, David	MINE	80822	Hurley Pit	11/19/2008	Modification	14.0
Chenango							
Afton	Indian Country Blue Stone LLC	MINE	70698	Hall Rd. Mine	7/24/2008	Modification	7.5
Afton	Sherman, David L	AUTH	70945	Sherman Quarry	7/29/2008	New	1.0
Afton	Tompkins, Town of	MINE	70700	Tompkins Gravel Bank - NYS Route 7	9/1/2008	Renewal	7.7
New Berlin	Orzeck, Andrew and Joseph	MINE	70483	Orzeck Pit	6/23/2008	Renewal	3.0
North Norwich	Burrell's Excavating Inc	MINE	70820	KMC II Gravel Mine	4/16/2008	Renewal	22.5
North Norwich	Stackhouse, Robert H	MINE	70518	Robert Stackhouse	9/1/2008	Renewal	23.0
Oxford	Kilmer, Cecil	MINE	70804	Oxford	6/16/2008	Modification	15.0
Smyrna	Nelson, Dale	MINE	70936	Nelson Gravel Mine	7/17/2008	New	3.9
Clinton							
Ausable	Ausable, Town of	MINE	50945	Dry Bridge Road Pit	10/1/2008	Modification	4.5
Beekmantown	Lake City Gravel Inc	MINE	50702	Davis Pit	5/22/2008	Modification	14.2
Champlain	Bedard, Arthur	MINE	51004	Bedard Mine	6/19/2008	New	5.0
Champlain	R Deso Inc	MINE	50759	Prospect Hill Quarry	8/15/2008	Modification	9.7
Champlain	R Deso Inc	MINE	50759	Prospect Hill Quarry	6/2/2008	Modification	9.7
Chazy	Champlain, Town of	MINE	50389	Macadam Road Gravel Pit	1/3/2008	Renewal	41.0

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Clinton							
Chazy	Willi O Kalvatis/Glendon R Raf	MINE	50982	Kalvaitis Mine	8/15/2008	Modification	17.1
Clinton	Cole, Richard	MINE	51002	Clinton Mills Mine	8/15/2008	Modification	9.9
Clinton	Cole, Richard	MINE	51002	Clinton Mills Mine	7/15/2008	Modification	9.9
Clinton	Cole, Richard	MINE	51002	Clinton Mills Mine	5/7/2008	Modification	9.9
Mooers	Chazy, Town of	MINE	50223	Big Hill Road Pit	10/31/2008	Renewal	11.5
Mooers	Graymont Materials NY Inc	MINE	50798	Mooers Stone Products Quarry #1	8/15/2008	Modification	23.0
Mooers	Graymont Materials NY Inc	MINE	50822	Mooers Stone Products Quarry 2	1/22/2008	Modification	5.0
Mooers	Graymont Materials NY Inc	MINE	50822	Mooers Stone Products Quarry 2	8/15/2008	Modification	5.0
Mooers	Woodfalls Industries LLC	MINE	50998	Deyo Quarry	8/15/2008	Modification	62.0
Mooers	Woodfalls Industries LLC	MINE	50998	Deyo Quarry	3/17/2008	Modification	62.0
Part	Rafferty, Glendon	MINE	50918	Rafferty Sand & Gravel	12/31/2008	Renewal	18.0
Peru	Deyo, Todd E	MINE	50830	L & R Landscaping Gravel Pit	9/23/2008	Renewal	29.5
Plattsburgh	Graymont Materials NY Inc	MINE	50062	Plattsburgh Quarry	8/15/2008	Modification	121.0
Plattsburgh	Morrisonville Construction Inc	MINE	50444	Morrisonville Construction Pit	3/17/2008	Renewal	16.4
Plattsburgh	Plattsburgh, Town of	MINE	50302	Town of Plattsburgh Sand Pit	4/19/2008	Renewal	18.0
Saranac	Saranac, Town of	MINE	50820	Alex Lamkins Pit	9/23/2008	Modification	12.6
Schuyler Falls	Connors Sand Pit LLC	MINE	50795	Connors Pit	5/23/2008	Modification	16.9
Schuyler Falls	New England Waste Services Of	MINE	50306	Adcock Pit	12/29/2008	Modification	47.0
Schuyler Falls	White, Barry	MINE	50579	White Pit	1/2/2008	Modification	14.2
Columbia							
Ancram	Double D Development LLC	MINE	40537	Bryant Mine NYS 82	1/28/2008	Renewal	25.5
Canaan	Adams, John P	MINE	40685	Adams Mine Site	11/3/2008	Renewal	10.5
Chatham	Kraft, Donald G	MINE	40730	Pond Hill Road Mine	9/17/2008	Renewal	9.0
Claverack	Southern Columbia Sand And G	MINE	40781	Claverack Bank	10/8/2008	Modification	7.2
Claverack	Southern Columbia Sand And G	MINE	40781	Claverack Bank	1/11/2008	Renewal	7.2
Copake	Nolan, William F.	MINE	40699	Craryville Pit, Nolan-Edelman	3/27/2008	Renewal	4.5
Greenport	A Colarusso & Son Inc	MINE	40020	Colarusso Quarry - Newman Rd.	4/22/2008	Modification	77.0
Greenport	Holcim US Inc	MINE	40081	Hudson Quarry	7/21/2008	Modification	281.0
Greenport	St Lawrence Cement Co LLC	MINE	40081	Hudson Quarry	4/22/2008	Modification	281.0
Livingston	Elizaville Sand & Gravel Inc	MINE	40309	Elizaville Sand & Gravel Site	10/23/2008	Modification	20.0
New Lebanon	New Lebanon, Town of	MINE	40717	Sherman Pit	1/11/2008	Renewal	8.0
New Lebanon	Valley Materials Inc	MINE	40725	Valley Materials Sand & Gravel	8/26/2008	Renewal	9.8
Cortland							

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Cortland							
Homer	Beard, Edwin	MINE	70793	Beard Sand & Gravel	6/19/2008	Modification	10.8
Homer	Suit-Kote Corp	MINE	70400	South Homer Mine -Nys Rt 11	9/19/2008	Renewal	43.2
Homer	T H Kinsella Inc	MINE	70630	E-Z Acres	7/21/2008	Modification	30.0
Delaware							
Colchester	Damtown Stone & Drilling Inc	MINE	40797	Chain Gang Quarry	3/27/2008	Renewal	3.0
Colchester	Hodge, Russell A	MINE	40258	Hodge's Cat Hollow S&G	1/16/2008	Renewal	34.0
Colchester	Johnston & Rhodes Bluestone C	MINE	40661	Shinhopple Quarry	5/13/2008	Modification	9.8
Colchester	Johnston & Rhodes Bluestone C	MINE	40737	Signor Quarry	5/13/2008	Modification	6.0
Davenport	Burton F Clark Inc	MINE	40231	Hillis Gravel Bank	3/17/2008	Renewal	47.0
Davenport	Davenport, Town of	MINE	40471	Davenport Pit	4/4/2008	Modification	11.0
Deposit	Genao, Joselin	AUTH	70947	Genao Quarry	11/10/2008	New	1.0
Deposit	RCS, LLC	AUTH	40864	Schaefer Exploration	6/18/2008	Renewal	1.0
Deposit	Schaefer Enterprises of Deposit	MINE	40722	Schaefer Bluestone Quarry	12/9/2008	Modification	14.0
Deposit	Schaefer Enterprises of Deposit	MINE	40722	Schaefer Bluestone Quarry	5/13/2008	Modification	14.0
Hancock	Catskill Stone Products Inc	MINE	40755	Long Eddy Quarry	5/13/2008	Modification	8.0
Hancock	Chilewski, C. Thomas	MINE	40768	Centerville Quarry	5/13/2008	Modification	10.0
Hancock	Cobleskill Stone Products Inc	MINE	40003	Hancock Quarry	5/13/2008	Modification	131.0
Hancock	Johnston & Rhodes Bluestone C	MINE	40724	Molderhauer Quarry	5/13/2008	Modification	15.0
Hancock	Johnston & Rhodes Bluestone C	MINE	40734	Dejohn Quarry	5/13/2008	Modification	11.0
Masonville	American Bluestone LLC	MINE	40733	Masonville Quarry	5/13/2008	Modification	12.7
Masonville	Barnes, David	MINE	40743	Masonville Quarry	5/13/2008	Modification	21.7
Masonville	Johnston & Rhodes Bluestone C	MINE	40740	Fiumera - Scheetz Quarry	5/13/2008	Modification	16.0
Masonville	Kilmer, Theodore	MINE	40728	Savino Quarry	5/13/2008	Modification	12.0
Masonville	Ronald Opeil Flagstone Compan	MINE	40687	Masonville Quarry	5/13/2008	Modification	14.4
Part	RCS, LLC	MINE	40739	Roods Creek Quarry	5/13/2008	Modification	18.0
Part	Tompkins Bluestone Co Inc	MINE	40736	Bryden-Hamden Quarry	5/13/2008	Modification	5.4
Stamford	Burton F Clark Inc	MINE	40386	Clark Pit	1/17/2008	Renewal	36.0
Stamford	Clark Companies	MINE	40850	Bloomville Mine	7/15/2008	New	7.0
Tompkins	Kamp, Fannie E	MINE	40732	Sands Creek Quarry	11/6/2008	Modification	7.0
Tompkins	Kamp, Fannie E	MINE	40732	Sands Creek Quarry	5/13/2008	Modification	7.0
Tompkins	Tompkins Bluestone Co Inc	MINE	40741	Dry Brook Stone & Timber/Borchert Q	5/13/2008	Modification	6.0
Walton	Logs Unlimited LLC	MINE	40779	Walton #1 Quarry	5/13/2008	Modification	13.0
Walton	MSR Inc	MINE	40788	Constable Quarry	3/27/2008	Renewal	3.0

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Dutchess							
Amenia	Cahill Industries Corp	MINE	30001	Wassaic Mine	11/18/2008	Renewal	70.0
Beekman	The Estate of Charles J Andrews	MINE	30139	Clapp Hill Gravel Bank	7/23/2008	Renewal	41.0
Dover	Palumbo Sand & Gravel Inc	MINE	30100		4/1/2008	Renewal	89.0
Dover	Vincent, Walter A	MINE	30056		8/12/2008	Modification	43.0
Dover	Wingdale Materials LLC	MINE	30061	Wingdale Quarry	8/12/2008	Modification	65.0
East Fishkill	GRB LLC	MINE	30156	East Fishkill Operations	8/12/2008	Modification	15.0
East Fishkill	Jackson, Verne	MINE	30647	Jackson Farm	8/22/2008	New	7.0
Fishkill	Skunkhead LLC	MINE	30142	O'Neill Mine	12/3/2008	Renewal	19.0
Fishkill	Thalle Industries Inc	MINE	30069	Milano mine	8/12/2008	Modification	45.5
LaGrange	Ryan, Richard	MINE	30237		6/24/2008	Modification	37.0
Pawling	Shaw, Fred	MINE	30622	Frebar Mine	8/12/2008	Modification	1.8
Pawling	Shaw, Fred	MINE	30622	Frebar Mine	9/22/2008	Renewal	1.8
Pine Plains	111 Sand & Gravel Corp	MINE	30114		7/23/2008	Renewal	7.0
Pine Plains	Jay A. Giardina	MINE	30461	Willowvale Rd. Pit	5/30/2008	Renewal	9.4
Pine Plains	Stissing Valley Farms Inc.	MINE	30541	Stissing Valley Farms Mine	11/3/2008	Renewal	7.0
Pleasant Valley	Dutchess Quarry & Supply Co I	MINE	30027	Pleasant Valley Quarry	8/12/2008	Modification	95.0
Pleasant Valley	Dutchess Quarry & Supply Co I	MINE	30027	Pleasant Valley Quarry	10/27/2008	Renewal	95.0
Erie							
Cheektowaga	Buffalo Crushed Stone Inc	MINE	90052	Cheektowaga Stone Plant #21	3/26/2008	Renewal	142.0
Cheektowaga	Buffalo Crushed Stone Inc	MINE	90052	Cheektowaga Stone Plant #21	8/15/2008	Modification	142.0
Clarence	10,001 Grand Corp	MINE	90032	Shisler Road Pit	6/4/2008	Renewal	10.6
Clarence	Emeritus Holdings Corp	MINE	90558	Wehrle Drive Gravel Pit	9/12/2008	Renewal	54.8
Collins	Dan Gernatt Asphalt Products In	MINE	90042	Feltz Gravel Pit	7/10/2008	Renewal	72.0
Collins	Dan Gernatt Asphalt Products In	MINE	90062	Strickland Deposit	2/26/2008	Renewal	1.5
Collins	UCC Constructors, Inc.	MINE	90008	Vail Road Pit	4/11/2008	Modification	20.0
Concord	Cold Spring Construction Co	MINE	90980	Hofmann North Borrow Site	4/22/2008	Modification	10.0
Concord	Gernatt Asphalt Products Inc	MINE	90369	Vaughn Deposit	7/10/2008	Renewal	50.0
Concord	Lafarge North America Inc	MINE	90540	Springville Site	5/20/2008	Renewal	1.0
Concord	Russo Development, Inc.	MINE	90472	Sibley Road Pit	10/15/2008	Modification	13.1
Eden	Brenner, Norman	MINE	90513	Brenner Shale Mine	10/9/2008	Renewal	4.0
Grand Island	Niagara Falls Campground LLC	MINE	90988	Rabbit Lake	2/1/2008	New	2.0
Grand Island	Weaver, Christine M	MINE	90678	Anchor Marine	10/28/2008	Renewal	4.0
Lancaster	Buffalo Crushed Stone Inc	MINE	90018	Wehrle/Barton Quarry	8/15/2008	Modification	600.0

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Erie							
Lancaster	Lafarge North America Inc	MINE	90655	Pavement West	2/8/2008	Renewal	35.0
Marilla	Berner, Leon E	MINE	90437	Berner Mine	11/7/2008	Renewal	5.0
Newstead	County Line Stone Co Inc	MINE	90093	Akron Quarry	8/15/2008	Modification	165.0
Newstead	County Line Stone Co Inc	MINE	90093	Akron Quarry	3/22/2008	Renewal	165.0
Newstead	County Line Stone Co Inc	MINE	90564	Siehl Road Pit	6/24/2008	Renewal	17.0
Orchard Park	Orchard Park, Town of	MINE	90067	Yard Waste Reclamation Center	4/30/2008	Renewal	32.0
Part	Winter, Robert	MINE	90839	Winter Mine	6/30/2008	New	2.0
Sardinia	Gernatt Asphalt Products Inc	MINE	90099	Chaffee Plant	5/14/2008	Modification	175.0
Sardinia	Morris Excavating Inc	MINE	90432	Morris Gravel Pit	2/22/2008	Renewal	3.0
Sardinia	Woodruff, Charles David	MINE	90187	Woodruff Construction Pit	2/21/2008	Renewal	9.0
Sardinia	Woodruff, Charles David	MINE	90500	Woodruff Chaffee Gravel Pit	9/11/2008	Renewal	8.0
Essex							
Chesterfield	Chesterfield, Town of	MINE	50175	Martin Pit	11/20/2008	Renewal	17.0
Jay	Jay, Town of	MINE	50108	Straight Pit	8/12/2008	Modification	9.0
Jay	Lake Placid Granite Co	MINE	50410	Green Quarry	10/24/2008	Modification	46.2
Jay	Lake Placid Granite Co	MINE	50411	Blue Quarry	10/24/2008	Modification	15.2
Lewis	Graymont Materials NY Inc	MINE	50056	Lewis Quarry	8/15/2008	Modification	61.9
Lewis	Morse, James R	MINE	50700	Morse Mine	12/3/2008	Modification	11.3
Lewis	NYCO Minerals Inc	MINE	50111	Lewis Mine	8/15/2008	Modification	89.9
Lewis	NYCO Minerals Inc	MINE	50803	Oak Hill Mine Site	8/15/2008	Modification	127.0
North Elba	Lake Placid, Village of	MINE	50448	Village Sand Pit	5/30/2008	Renewal	4.8
North Hudson	Koller, John	MINE	50185	Koller Pit	4/18/2008	Renewal	14.0
St Armand	Graymont Materials NY Inc	MINE	50058	Saranac Lake Quarry	8/15/2008	Modification	45.0
St Armand	Graymont Materials NY Inc	MINE	50058	Saranac Lake Quarry	9/25/2008	Renewal	45.0
Ticonderoga	Armstrong, Patrick	MINE	50946	North Ti Sand & Gravel Mine	12/15/2008	Renewal	8.3
Ticonderoga	Huestis, Gerald L	MINE	50008	Upper Pit And Gibbs Pit	7/29/2008	Renewal	71.0
Westport	Westport, Town of	MINE	50614	Munson Pit	11/5/2008	Renewal	4.9
Willsboro	NYCO Minerals Inc	MINE	50003	Willsboro Mine - Underground	8/15/2008	Modification	4.0
Willsboro	Sheehan, John Jr	MINE	50866	Sheehan Mine	11/12/2008	Renewal	2.4
Wilmington	Wilmington, Town of	MINE	50857	Town of Wilmington Mine	11/20/2008	Renewal	4.2
Franklin							
Bellmont	Carter, Gilberta	MINE	50954	Carter Pit West	4/2/2008	Renewal	2.8
Brandon	Graymont Materials NY Inc	MINE	50303	Malone Quarry	1/22/2008	Renewal	77.0

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Franklin							
Brandon	Graymont Materials NY Inc	MINE	50303	Malone Quarry	8/15/2008	Modification	77.0
Brandon	Moir, Town of	MINE	50425	Tuttle Pit	11/5/2008	Renewal	19.0
Brighton	Brighton, Town of	MINE	50536	Brighton Pit # 1	1/3/2008	Renewal	4.2
Dickinson	Bowers Excavating	MINE	50849	Bowers Gravel Pit	6/9/2008	Renewal	4.0
Dickinson	Mills, Daniel S	MINE	50955	Harris Sand Pit	6/13/2008	Modification	3.0
Dickinson	Waverly, Town of	MINE	51005	Clookey Road Mine	6/17/2008	New	0.8
Fort Covington	Fort Covington, Town of	MINE	50477	Fort Covington Gravel Pit	11/7/2008	Renewal	7.0
Malone	Crestline Sand & Gravel LLC	MINE	51010	Crestline Sand and Gravel	9/2/2008	New	5.0
Malone	Ed Duquette & Son Inc	MINE	50408	Nephew Pit	1/2/2008	Renewal	4.5
Moir	Moir, Town of	MINE	50424	Moir Sand Pit	2/23/2008	Renewal	8.0
Santa Clara	Bay Pond Condominium	MINE	50543	Stone Ledge Pit	10/24/2008	Renewal	3.0
Waverly	Waverly, Town of	MINE	50683	South River Road Pit	6/4/2008	Modification	5.3
Waverly	Waverly, Town of	MINE	50706	Dexter Road Pit	12/11/2008	Renewal	4.0
Westville	Snyder, Gaylord R	MINE	50832	Snyder Sand Pit	7/23/2008	Modification	4.0
Westville	Stark, Judith A	MINE	50855	Stark's Clay Pit	6/30/2008	Renewal	12.5
Westville	Stark, Judith A	MINE	50855	Stark's Clay Pit	6/3/2008	Modification	12.5
Westville	Stark, Judith A	MINE	51001	Little Briggs Pit	2/20/2008	New	14.3
Westville	Westville, Town of	MINE	50450	Westville Pit	10/24/2008	Renewal	9.0
Fulton							
Ephratah	Ephratah, Town of	MINE	50022	Ephratah Mine	7/15/2008	Renewal	17.0
Mayfield	Herba, Edward F Jr	MINE	50157		6/26/2008	Modification	23.0
Mayfield	Mayfield, Town of	MINE	50552	Mayfield Sand Bank	12/18/2008	Renewal	4.0
Northampton	Delaney Crushed Stone Products	MINE	50068	Bradt mine	8/15/2008	Modification	69.0
Genesee							
Alabama	Buffalo Crushed Stone Inc	MINE	80086	Alabama Quarry	8/15/2008	Modification	271.0
Batavia	Dunham, Wayne	MINE	80778	Dunham Pond	7/16/2008	Renewal	8.7
Batavia	Hanson Aggregates New York I	MINE	80095	St. John's Pit (Batavia Mine)	3/10/2008	Renewal	112.7
Darien	Moore, Mark	MINE	80829	Landshapers	2/19/2008	New	5.0
Le Roy	Hanson Aggregates New York I	MINE	80073	Leroy Mine	8/15/2008	Modification	211.3
Greene							
Catskill	Holcim US Inc	MINE	40028	Catskill Quarry	7/21/2008	Modification	318.0
Catskill	Lehigh Northeast Cement Co	MINE	40041	Cementon/Alsen Quarry	5/12/2008	Modification	267.0
Catskill	Matthies, Paul	MINE	40378	Old Kings Road Pit	5/26/2008	Renewal	8.2

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Greene							
Catskill	Peckham Materials Corp	MINE	40055	Catskill Quarry	10/16/2008	Renewal	50.0
Catskill	Peckham Materials Corp	MINE	40055	Catskill Quarry	4/22/2008	Modification	50.0
Catskill	St Lawrence Cement Co	MINE	40028	Catskill Quarry	4/22/2008	Modification	318.0
Coxsackie	Gary's Route 81 Stone Quarry In	MINE	40349	Gary's Route 81 Stone Quarry	1/23/2008	Modification	15.0
Coxsackie	Gary's Route 81 Stone Quarry In	MINE	40349	Gary's Route 81 Stone Quarry	5/13/2008	Modification	15.0
Coxsackie	Grande Stone Quarry LLC	MINE	40319	High Hill Shale Pit	5/13/2008	Modification	37.6
Coxsackie	Halsted Excavating Inc	MINE	40744	Halsted Shale Mine	5/13/2008	Modification	5.0
Hunter	Bates, Craig	MINE	40578	Craig Bates Trucking & Excavating Pit	6/6/2008	Renewal	12.0
Part	Cobleskill Stone Products Inc	MINE	40447	Falke's Quarry	5/13/2008	Modification	14.0
Hamilton							
Arietta	Rhodes Construction Co Inc	MINE	50035	Knapp Pit	5/16/2008	Renewal	11.3
Indian Lake	Indian Lake, Town of	MINE	50373	Chain Lakes Pit #1 & #2	7/29/2008	Modification	14.7
Lake Pleasant	Lake Pleasant, Town of	MINE	50080	Town of Lake Pleasant Pit	12/11/2008	Modification	3.5
Long Lake	Long Lake, Town of	MINE	50272	Valentine Pit	11/17/2008	Renewal	1.8
Long Lake	Roblee, James C	MINE	50713	Jim Farr Pit #1	7/24/2008	Modification	4.9
Wells	Graymont Materials NY Inc	MINE	50636	Wells Pit #3	2/19/2008	Modification	35.0
Herkimer							
Fairfield	Hanson Aggregates New York I	MINE	60042	Middleville Quarry	5/27/2008	Renewal	37.1
Herkimer	Talarico, Cheryl	MINE	60938	Talarico Sand & Gravel Mine	3/24/2008	Renewal	64.5
Litchfield	Barrett Paving Materials Inc	MINE	60049	Litchfield Quarry	10/22/2008	Modification	157.8
Litchfield	Barrett Paving Materials Inc	MINE	60049	Litchfield Quarry	7/7/2008	Modification	157.8
Litchfield	Beckwith, Robert	MINE	60149	Beckwith Sand & Gravel Pit	5/31/2008	Modification	6.3
Newport	Herkimer Diamond Mines Inc	MINE	60598	Quartz Diamond Mine	11/20/2008	Renewal	5.0
Newport	PSG Realty, LLC	MINE	60729	PSG Poland Pit	7/15/2008	Renewal	54.0
Newport	PSG Realty, LLC	MINE	60729	PSG Poland Pit	12/29/2008	Modification	54.0
Norway	Clifford, Charles Jr	MINE	60097	Clifford Sand & Gravel Pit	3/26/2008	Renewal	8.9
Norway	Folsbee, Earl	MINE	60815	Hurricane Road Pit	8/1/2008	Renewal	28.0
Norway	PSG Realty, LLC	MINE	60647	Poland Pit #2	12/1/2008	Modification	17.0
Ohio	Weakley, Brett	MINE	60562	Price Mine	7/1/2008	Renewal	8.0
Russia	Bell Construction Co Inc	MINE	60720	Bell Pit	10/21/2008	Renewal	5.0
Russia	Russia, Town of	MINE	60744	Hinkley Road Pit	5/2/2008	Renewal	4.0
Salisbury	Dolgeville, Village of	MINE	60748	Irondale Mine	11/25/2008	Renewal	2.0
Salisbury	Salisbury, Town of	MINE	60683	Route 29 Pit	11/1/2008	Renewal	20.0

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Herkimer							
Webb	Adirondack Homes, LLC	MINE	60504	North Street Gravel Site	7/1/2008	Renewal	4.9
Webb	Heroux Construction Co Inc	MINE	60547	Heroux Sand & Gravel Mine	9/22/2008	Modification	34.1
Webb	Webb, Town of	MINE	61012	Big Moose Road Pit	6/16/2008	Renewal	4.0
Winfield	Burton F Clark Inc	MINE	60495	Boss Mine	8/21/2008	Renewal	33.0
Winfield	Ferris Stone Products LLC	MINE	61005	Ferris Sand & Gravel Mine	7/23/2008	Renewal	6.5
Jefferson							
Adams	R G King General Construction	MINE	60844	Ramsey Mine	1/23/2008	Modification	9.9
Alexandria	Fitzsimmons, Michael	MINE	60717	Fitzsimmons Quarry	10/22/2008	Modification	8.5
Brownville	Brownville, Town of	MINE	60415	Moffatt Quarry	10/22/2008	Modification	10.0
Brownville	J & H Limestone Co	MINE	60351		10/22/2008	Modification	3.0
Cape Vincent	Jefferson County Highway Dept	MINE	61065	Hall Mine at CR-4	10/22/2008	Modification	25.1
Champion	J.L. Reed Trucking Inc	MINE	60736		5/14/2008	Modification	8.1
Champion	Lewis County Highway Dept	MINE	60031	Martin Street Road	8/22/2008	Renewal	13.0
Champion	Rutland, Town of	MINE	60948	Eddy Road Mine	6/26/2008	Renewal	13.5
Champion	Tug Hill Construction Inc	MINE	60227	Kellogg Pit	10/22/2008	Modification	73.6
Ellisburg	Ellenburg, Town of	MINE	60753	Parsons Gravel	4/21/2008	Renewal	24.1
Ellisburg	Rural Hill Sand & Gravel	MINE	60002	Gravel Pit	12/11/2008	Renewal	41.1
Henderson	Rural Hill Sand & Gravel	MINE	60628	Quarry	10/22/2008	Modification	26.0
Henderson	Tug Hill Construction Inc	MINE	60436	Big Stony Pit	10/22/2008	Modification	4.6
Hounsfield	John Vespa Inc	MINE	60823	Arsenal Stone	10/22/2008	Modification	34.0
Leray	Burritt, Daniel W	MINE	60061	Route 342 Pit	3/26/2008	Renewal	5.0
Leray	Burritt, Daniel W	MINE	60061	Route 342 Pit	8/27/2008	Modification	5.0
Orleans	Johnson's Sand & Gravel Inc	MINE	60072	Flick Mine	1/23/2008	Modification	41.7
Orleans	NYS Office of Parks, Recreation	MINE	60501	Wellsley Island State Park Gravel Pit	2/12/2008	Renewal	2.0
Pamelia	Barrett Paving Materials Inc	MINE	60517	Pamelia Quarry	7/18/2008	Renewal	114.6
Pamelia	Barrett Paving Materials Inc	MINE	60517	Pamelia Quarry	10/22/2008	Modification	114.6
Pamelia	Hanson Aggregates New York I	MINE	60038	Watertown	7/10/2008	Renewal	263.0
Rodman	R G King General Construction	MINE	60472	King's Quarry	10/22/2008	Modification	48.4
Watertown	Escudero, Edward F	MINE	60499	Escudero Quarry	10/22/2008	Modification	10.0
Watertown	John Vespa Inc	MINE	60087	Overlook Drive Quarry	10/22/2008	Modification	40.0
Watertown	Watertown Sand & Gravel Inc	MINE	60055	Watertown Sand & Gravel	4/23/2008	Renewal	55.5
Lewis							
Croghan	New Breman, Town of	MINE	61085	Matt Bush Pit	11/6/2008	New	4.0

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Lewis							
Diana	Diana, Town of	MINE	60414	Trombley Pit	11/25/2008	Renewal	7.3
Diana	Pierce, Carl D	MINE	60791	Leonard Pit	7/18/2008	Renewal	1.5
Diana	R. T. Vanderbilt Company Inc,	MINE	60140	No. 4 Mine	10/22/2008	Modification	44.0
Diana	Tug Hill Construction Inc	MINE	60821	Farr Site	1/2/2008	Renewal	5.7
Greig	Greig, Town of	MINE	60009	Fish Creek Road Mine	8/13/2008	Renewal	30.0
Lowville	Lowville, Town of	MINE	60021	Lowville Quarry	10/22/2008	Modification	3.0
Lowville	MJL Crushing LLC	MINE	61069	Rte 26 North Lowville	3/18/2008	New	26.0
Lyonsdale	Lewis County Highway Dept	MINE	60754	O'Brien Pit	9/29/2008	Modification	4.6
Lyonsdale	Leyden, Town of	MINE	60933	O'brien Mine	1/28/2008	Renewal	5.0
Montague	Montague, Town of	MINE	60603	Burker Pit	11/7/2008	Renewal	5.0
Turin	Lewis County Highway Dept	MINE	60855	Johnson Mine	8/22/2008	Renewal	11.0
Watson	V S Virkler & Son Inc	MINE	60082	V S Virkler & Sons Inc.	9/17/2008	Renewal	68.2
West Turin	NYS DEC	MINE	61081	LV Pit #4	7/28/2008	New	1.5
West Turin	NYS DEC	MINE	61082	LV Pit #8	7/28/2008	New	0.5
Livingston							
Caledonia	Hanson Aggregates New York I	MINE	80093	Halpin Mine	5/22/2008	Renewal	23.1
Conesus	Errigo, Joseph A	MINE	80673	Errigo Sand And Gravel Mine	4/4/2008	Renewal	5.0
Groveland	Bickle, Leonard	MINE	80497	Bickle Pit	7/16/2008	Renewal	2.0
Nunda	Lawson Sand & Gravel Inc	MINE	80250	Lawson S & G	1/8/2008	Renewal	43.5
Ossian	Ossian, Town of	MINE	80454	Wilson Pit	12/1/2008	Renewal	29.2
Madison							
Eaton	Madison County Hwy Dept	MINE	70513	Melvins Gravel Bed - Brown Road	6/3/2008	Renewal	19.0
Hamilton	Cossitt Concrete Products Inc	MINE	70201	Earlville Gravel Bed - Clyde Street	10/3/2008	Modification	14.0
Hamilton	Larkin, Terri J	MINE	70517	Jewett's Sand & Gravel - Earlville Road	1/16/2008	Modification	26.0
Lebanon	Rasmussen Gravel Products LL	MINE	70914	Rivington Gravel Mine	9/1/2008	New	4.5
Lincoln	DeMario, Louis	MINE	70252	Boyles Borrow Pit - Creek Road	5/20/2008	Renewal	4.9
Smithfield	Madison County Hwy Dept	MINE	70582	Dahlems's Gravel Bed - May Road	7/1/2008	Modification	34.1
Sullivan	Callanan Industries Inc	MINE	70045	Worlock Quarry, Quarry Road	5/20/2008	Renewal	79.0
Sullivan	J B Quarry Inc	MINE	70875	Worlock Acres Quarry	6/16/2008	Modification	15.9
Monroe							
Gates	Dolomite Products Company Inc	MINE	80020	Gates Quarry	12/1/2008	Renewal	90.5
Penfield	Dolomite Products Company Inc	MINE	80021	Penfield Quarry	6/4/2008	Renewal	154.0
Sweden	Callanan Industries, Inc. d/b/a Ir	MINE	80042	Brockport Quarry	8/15/2008	Modification	261.8

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Montgomery							
St Johnsville	Hanson Aggregates New York I	MINE	40054	St. Johnsville Quarry	1/22/2008	Renewal	75.4
St Johnsville	Rifenburg Construction Inc	MINE	40024	Pit #2 (Former Burgess Pit)	2/28/2008	Renewal	46.7
Nassau							
North Hempstead	Spring Hill Farm LLC	MINE	10122	Spring Hill	7/23/2008	New	3.7
Niagara							
Lockport	Redland Quarries NY Inc	MINE	90017	Lockport Quarry	10/15/2008	Renewal	263.0
Royalton	Redland Quarries NY Inc	MINE	90016	Gasport Plant	10/28/2008	Renewal	178.0
Oneida							
Annsville	Matt, Leo E	MINE	60659	Taberg Site	11/24/2008	Renewal	19.9
Marshall	Peck, Gary R	MINE	60710	Maxwell Road Gravel Pit	7/2/2008	Renewal	5.0
Paris	Ludlow, G Kevin	MINE	60073	Ludlow Sand & Gravel	8/1/2008	Renewal	12.0
Part	Hanson Aggregates New York I	MINE	60041	Oriskany Falls Quarry	8/4/2008	Renewal	263.5
Rome	Aikens Construction Of Rome I	MINE	60200	Gifford Road Pit	11/1/2008	Renewal	46.0
Rome	Lanz Construction Inc	MINE	60471	Rickmeyer Road	1/30/2008	Renewal	11.0
Western	Alliance Paving Materials Inc	MINE	60430	Anderegg Mine	1/9/2008	Renewal	44.3
Western	Western, Town of	MINE	61011	Hoke Pit	7/22/2008	Renewal	4.0
Whitestown	Fred Burrows Trucking & Excav	MINE	60160	Route 69 Pit	10/1/2008	Renewal	22.0
Onondaga							
Clay	Marcy Excavation Services LLC	MINE	70740	Black Creek Road Mine,Black Creek R	6/6/2008	Modification	19.0
Dewitt	Alpha Jamesville Corporation	MINE	70626	Alpha Jamesville	6/16/2008	Modification	59.0
Fabius	Palladino, John M	MINE	70127	John Palladino Mine	5/20/2008	Modification	81.0
Fabius	Rasmussen Gravel Products LL	MINE	70732	Oran-Delphi Mine - Off NYS Route 80	1/1/2008	Renewal	5.0
Manlius	T H Kinsella Inc	MINE	70077	Kinsella Quarry - NYS Route 5	6/16/2008	Modification	63.5
Marcellus	Dearborn Deposits Limited	MINE	70664	Limeledge Road	6/16/2008	Modification	40.0
Marcellus	Smith, David J	MINE	70160	Davis Pit	5/19/2008	Modification	18.0
Onondaga	Heer, Raymond C	MINE	70937	Heer Farms Gravel Pit	10/2/2008	New	9.9
Onondaga	Onondaga, Town of	MINE	70277	Bett's Gravel Mine - County Route 151	7/14/2008	Renewal	5.0
Part	Fletcher Gravel Co Inc	MINE	70005	Marcellus Plant	6/16/2008	Modification	153.0
Skaneateles	Hanson Aggregates New York I	MINE	70024	Skaneateles Quarry	7/21/2008	Modification	278.3
Ontario							
Manchester	Dolomite Products Company Inc	MINE	80043	Manchester Quarry	1/14/2008	Modification	161.6
Manchester	Marcy Excavation Services LLC	MINE	80692	Vanopdorp Pit#2	7/17/2008	Modification	22.3
Manchester	Monroe Sand & Gravel Corp	MINE	80629	Monroe Sand & Gravel Rte. 21	1/16/2008	Renewal	18.7

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Ontario							
Phelps	Full Cycle Soil Inc	MINE	80734	Schroo Sand and Gravel	1/24/2008	Modification	14.3
Orange							
Blooming Grove	Alexandra Development Corp	MINE	30306		8/12/2008	Modification	8.0
Chester	E Tetz & Sons Inc	MINE	30002	Chester Operation	10/21/2008	Modification	64.5
Chester	Gangemi Salerno & Fini	MINE	30490	Gateway Hill Professional Park	8/12/2008	Modification	9.0
Crawford	Grosso Materials Inc	MINE	30109	Crawford Works	8/12/2008	Modification	50.0
Crawford	Grosso Materials Inc	MINE	30109	Crawford Works	9/26/2008	Modification	50.0
Deerpark	P J Quarry Inc	MINE	30020	PJ Quarry	8/12/2008	Modification	55.0
Goshen	Dutchess Quarry & Supply Co I	MINE	30034	Goshen Quarry	8/12/2008	Modification	55.0
Goshen	Dutchess Quarry & Supply Co I	MINE	30034	Goshen Quarry	9/25/2008	Renewal	55.0
Goshen	Wallkill, Town of	MINE	30552	Echo Lake Mine	1/15/2008	Renewal	11.5
Montgomery	Crist Brothers Orchards Inc	MINE	30499	Crist Bros. Mine	7/23/2008	Renewal	21.0
Montgomery	Mehlon Trucking	MINE	30195		8/12/2008	Modification	18.1
Mount Hope	Boyce, Garry L	MINE	30413	Maple Lane Sand & Gravel	5/13/2008	Renewal	8.0
Mount Hope	Mount Hope, Town of	MINE	30372	Shoddy Hollow Rd	11/18/2008	Renewal	7.0
New Windsor	Bonura, Joseph	MINE	30512	New Windsor Mine	7/25/2008	Renewal	7.0
Wallkill	Carroll Manufacturing & Develo	MINE	30493		6/25/2008	Renewal	3.3
Wawayanda	Panattoni Development Co. Inc.	MINE	30545	Pine Lane Mine	7/8/2008	Modification	80.0
Wawayanda	Panattoni Development Co. Inc.	MINE	30545	Pine Lane Mine	10/17/2008	Renewal	80.0
Woodbury	Highland Sand & Gravel Inc	MINE	30171	Woodbury mine	9/19/2008	Modification	43.1
Orleans							
Albion	Pilon Construction Co Inc	MINE	80190	Pilon Mine	8/15/2008	Modification	4.0
Albion	Pilon Construction Co Inc	MINE	80190	Pilon Mine	3/18/2008	Renewal	4.0
Murray	Hanson Aggregates New York I	MINE	80072	Hulberton Quarry	4/3/2008	Renewal	68.3
Ridgeway	Keeler Construction Co Inc	MINE	80046	Fruit Ave Pit	8/15/2008	Modification	15.9
Shelby	Shelby Crushed Stone Inc	MINE	80346	Medina	8/15/2008	Modification	105.9
Shelby	Shelby Crushed Stone Inc	MINE	80346	Medina	12/24/2008	Modification	105.9
Oswego							
Amboy	Amboy, Town of	MINE	70324	Allen Lasalle Mine - Finnerty Road	12/11/2008	Renewal	20.0
Constantia	North Country Concrete & Bloc	MINE	70353	Constantia Center Mine - Co. Rt. 17	9/10/2008	Renewal	125.8
Granby	Syracuse Sand & Gravel LLC	MINE	70465	Granby Mine, County Route 85	7/1/2008	Modification	36.2
Hastings	A J Montclair Inc	MINE	70559	Hogsback Road Mine	7/23/2008	Renewal	9.6
Hastings	Cemento LLC	MINE	70535	Barker Road Mine	3/21/2008	Modification	9.0

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Oswego							
Palermo	North Country Concrete & Bloc	MINE	70306	Stephen Geer Gravel Bed	4/21/2008	Renewal	17.0
Palermo	Syracuse Sand & Gravel LLC	MINE	70136	Palermo, Island Road	7/1/2008	Renewal	33.0
Schroepfel	A J Montclair Inc	MINE	70920	Schroepfel Pit	7/30/2008	New	9.7
Schroepfel	Gabor, Donald J	MINE	70568	Gabor Mine	9/17/2008	Renewal	5.0
Scriba	Lazarek Inc	MINE	70339	Scriba Pit	7/1/2008	Modification	29.0
Volney	Bonnoffski, Raymond D.	MINE	70835	Raymond Bonoffski Gravel Mine	12/30/2008	Renewal	5.0
Volney	Lindsey Aggregates, Inc.	MINE	70841	Lindsey Aggregates Gravel Pit	12/23/2008	Renewal	27.4
Volney	Northern Aggregates Inc	MINE	70260	Snyder Mine	1/7/2008	Renewal	34.7
Volney	Northern Aggregates Inc	MINE	70409	Baldwin Road - Ives	4/17/2008	Renewal	46.0
Volney	Northern Aggregates Inc	MINE	70774	Douglas Mine	9/5/2008	Modification	31.2
Williamstown	Williamstown, Town of	MINE	70586	Kasoag Mine	6/18/2008	Renewal	15.0
Otsego							
Burlington	Burlington, Town of	MINE	40707	Norton Road Pit	1/29/2008	Renewal	15.0
Hartwick	Seward Sand & Gravel Inc	MINE	40548	Ingalls Pit/Rt.28	8/7/2008	Modification	24.7
Middlefield	Milford, Town of	MINE	40645	New Joe Kriz Pit - North Pit	2/28/2008	Renewal	4.0
Milford	Burton F Clark Inc	MINE	40596	Peterson Mine	3/12/2008	Renewal	15.0
Milford	Seward Sand & Gravel Inc	MINE	40046	Seward Sand & Gravel (Hemlock Road)	10/1/2008	Renewal	55.0
New Lisbon	Galley, David	MINE	40575	Galley Co. Rt. 16 Mine	6/18/2008	Renewal	10.0
Unadilla	Barnes, Michael	MINE	40652	Zupan/Barnes Prop. Pit	2/15/2008	Renewal	13.0
Unadilla	Waste Recovery Enterprises LL	MINE	40798	Earl Road Gravel Mine	10/2/2008	Renewal	8.9
Westford	Seward Sand & Gravel Inc	MINE	40678	Greenbush Road/Tim Green Pit	9/9/2008	Modification	3.0
Putnam							
Patterson	Patterson Materials Corp	MINE	30042	Patterson Quarry	8/12/2008	Modification	55.8
Rensselaer							
Berlin	Hammersmith, William J	MINE	40843	Hammersmith Gravel Mine	9/29/2008	Modification	9.8
East Greenbush	Troy Sand & Gravel Co Inc	MINE	40329	Witbeck Bank	5/9/2008	Modification	17.0
Grafton	R J Valente Gravel Inc	MINE	40693	Grafton Quarry	8/5/2008	Renewal	32.0
Grafton	R J Valente Gravel Inc	MINE	40693	Grafton Quarry	5/13/2008	Modification	32.0
Hoosick	Dailey, William E	MINE	40670	Hoosick Quarry	3/26/2008	Renewal	30.5
Petersburg	Valente Materials Group LP	MINE	40223	Bentley Pit	12/9/2008	Renewal	17.1
Pittstown	Campbell, Gaylord	MINE	40393	Campbell Gravel Mine	9/5/2008	Renewal	11.0
Pittstown	Norton, Raymond F	MINE	40790	Norton Gravel Mine	8/15/2008	Renewal	9.3
Pittstown	Norton, Raymond F	MINE	40790	Norton Gravel Mine	12/1/2008	Modification	9.3

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Rensselaer							
Poestenkill	VanSlyke Belting LLC	MINE	40865	Farm To Market Road (Rte 351) Mine	6/8/2008	New	2.5
Sand Lake	Troy Sand & Gravel Co Inc	MINE	40007	West Sand Lake Operation	7/16/2008	Modification	136.0
Sand Lake	Troy Sand & Gravel Co Inc	MINE	40701	Reichards Lake Pit	10/21/2008	Renewal	1.0
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40762	Weir Sand & Gravel Mine	3/25/2008	Modification	17.4
Schaghticoke	Warren W Fane Inc	MINE	40566	Dyer Lease Pit	12/10/2008	Renewal	8.0
Schaghticoke	Warren W Fane Inc	MINE	40570	Rt. 67/ Spaulding Pit	1/22/2008	Modification	22.1
Schaghticoke	Warren W Fane Inc	MINE	40738	Ward Bank	3/4/2008	Renewal	40.0
Schodack	Silkworth, Jay B	MINE	40868	Muitzeskill Pond Mine Road	10/8/2008	New	4.0
Schodack	Wm Keller & Sons Realty Corp	MINE	40270	Old Post Rd. Pit	1/17/2008	Renewal	51.0
Stephentown	Senter, John R	MINE	40152	Senter Mine	8/7/2008	New	4.9
Saratoga							
Corinth	Ellis, Gene and Nancy	MINE	51003	Ellis Mine	1/28/2008	New	2.8
Corinth	Palette Stone Corp	MINE	50364	South Corinth Bank	6/20/2008	Renewal	103.8
Corinth	Pompa Bros Inc	MINE	50264	Wells Rd Pit	8/21/2008	Renewal	5.8
Greenfield	Ballston and Greenfield, Towns	MINE	50290	Three Towns	10/20/2008	Renewal	8.0
Greenfield	Peckham Materials Corp	MINE	50265	Coy Rd Pit	8/15/2008	Modification	88.5
Greenfield	Pompa Bros Inc	MINE	50263	Coy Rd Pit	8/15/2008	Modification	102.5
Greenfield	Pompa Bros Inc	MINE	50263	Coy Rd Pit	7/22/2008	Renewal	102.5
Hadley	Hadley, Town of	MINE	50007		10/8/2008	Renewal	5.0
Halfmoon	Larned and Sons Inc	MINE	50476	Lower Newtown Road Site	10/8/2008	Renewal	56.2
Halfmoon	Larned and Sons Inc	MINE	50476	Lower Newtown Road Site	10/8/2008	Renewal	56.2
Halfmoon	Troy Sand & Gravel Co Inc	MINE	50714	Bailey Farm Pit	3/21/2008	Modification	30.0
Milton	Larned and Sons Inc	MINE	50613	Larned Mine Site	10/20/2008	Renewal	25.0
Milton	Pompa Bros Inc	MINE	50065	Milton Quarry	8/15/2008	Modification	66.7
Moreau	Lehigh Northeast Cement Co	MINE	50021	Glens Falls Quarry	7/29/2008	Modification	296.0
Northumberland	James H Maloy Inc	MINE	50214	Wells Bank	10/8/2008	Renewal	6.0
Northumberland	Scott Paper Finch Landfill Partn	MINE	50834	Shale Pit	3/17/2008	Renewal	5.0
Providence	Earth Development LLC/Jordan	MINE	50818	Agua Fria Mine	5/14/2008	Modification	4.0
Providence	Saratoga County DPW	MINE	50746	Saratoga County Gravel Pit #2	10/15/2008	Modification	19.0
Providence	Troy Sand & Gravel Co Inc	MINE	50187	Providence Mining Pit	10/15/2008	Modification	8.0
Saratoga	Clute, John F	MINE	50465		10/21/2008	Renewal	7.0
Saratoga Spring	Palette Stone Corp	MINE	50044	Saratoga Springs Quarry	6/20/2008	Modification	80.0
Stillwater	The Luther Forest Corp	MINE	50049		10/14/2008	Renewal	54.4

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Schenectady							
Glenville	Larned and Sons Inc	MINE	40784	Vley Road Site	8/12/2008	Renewal	3.7
Rotterdam	Larned and Sons Inc	MINE	40469	Fessenden Shale Mine (aka Fessenden	8/20/2008	Renewal	7.0
Rotterdam	Larned and Sons Inc	MINE	40469	Fessenden Shale Mine (aka Fessenden	4/7/2008	Modification	7.0
Schoharie							
Carlisle	Chichester, Everett R Jr	MINE	40635	Hunt Carlisle Shale Mine	3/12/2008	Renewal	7.2
Cobleskill	Cobleskill Stone Products Inc	MINE	40077	Cobleskill Quarry	4/22/2008	Modification	110.0
Cobleskill	Cobleskill Stone Products Inc	MINE	40209	Howes Cave Quarry	5/13/2008	Modification	104.0
Conesville	Carver Sand & Gravel LLC	MINE	40692	Conesville Pit	7/10/2008	Modification	9.5
Gilboa	Platterkill Sand & Gravel Inc	MINE	40481	Platterkill Gravel Mine	2/15/2008	Renewal	16.6
Middleburg	Carver Sand & Gravel LLC	MINE	40138	Clauverwie Road Pit	7/11/2008	Modification	36.0
Middleburg	Carver Sand & Gravel LLC	MINE	40220	Middleburgh Ag Lime Mine	5/13/2008	Modification	77.0
Richmondville	Veley, James M	MINE	40629	Rte 7 Richmondville Pit	10/9/2008	Renewal	4.6
Schoharie	Cobleskill Stone Products Inc	MINE	40094	Schoharie Quarry	4/22/2008	Modification	86.0
Schuyler							
Catharine	Wickham, John & Jackie	MINE	80800	Maple Terrace Farm Gravel Mine	7/9/2008	Renewal	4.9
Seneca							
Fayette	Seneca Stone Corporation	MINE	80023	Seneca Stone Corporation Quarry	8/15/2008	Modification	281.6
St. Lawrence							
Canton	Hermon, Town of	MINE	60921	Crusher Road Mine	2/4/2008	Renewal	7.0
Edwards	French, Wayne	MINE	60233	Barraford Pit	9/4/2008	Renewal	16.3
Edwards	Harmer, Harry	MINE	60728	Bullock Pit	10/6/2008	Renewal	14.5
Edwards	Mackin, Franklin	MINE	60384	Bullock Pit	8/22/2008	Modification	13.3
Edwards	R. T. Vanderbilt Company Inc,	MINE	60050	Number 3 Mine	10/22/2008	Modification	9.0
Fowler	Gouverneur Talc Co Inc	MINE	60051	Nos 1 & 2 Mines	10/22/2008	Modification	185.0
Gouverneur	Imerys Marble Inc	MINE	60003	Seavey Road Quarry	8/13/2008	Renewal	84.0
Gouverneur	Imerys Marble Inc	MINE	60003	Seavey Road Quarry	10/22/2008	Modification	84.0
Hammond	Greystone Quarries Inc	MINE	61015	North Country Mine	11/14/2008	Renewal	4.9
Hopkinton	Randall, Ralph N. & Constance	MINE	61026	Hopkinton Pit	10/6/2008	Modification	4.1
Lawrence	Sheldon, Allan C	MINE	60716	Lawrence mine	7/17/2008	Renewal	3.5
Norfolk	Barrett Paving Materials Inc	MINE	60047	Norwood Quarry	10/22/2008	Modification	144.2
Norfolk	Barrett Paving Materials Inc	MINE	60047	Norwood Quarry	9/30/2008	Renewal	144.2
Norfolk	Barrett Paving Materials Inc	MINE	60832	Knapp Station Road Quarry	10/22/2008	Modification	75.9
Parishville	Potsdam, Town of	MINE	60262	Bensen Pit	10/30/2008	Modification	9.0

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St. Lawrence							
Parishville	Randall, Ralph N. & Constance	MINE	60639	Lenny Road	10/6/2008	Modification	19.1
Parishville	Randall, Ralph N. & Constance	MINE	61077	Benson Road Pit	10/6/2008	Modification	4.5
Pierrepont	Canton, Village of	MINE	60126	Beech Plains Gravel Pit	2/26/2008	Renewal	16.0
Pitcairn	Thesier, W. Grant	MINE	61009	Mr. Grant Pit	8/1/2008	Renewal	4.9
Potsdam	Eric Gustafson and Charles Rutl	MINE	61084	Golf View Sand Mine	9/26/2008	New	4.9
Russell	Russell, Town of	MINE	60696	Town Of Russell Gravel Pit	3/6/2008	Renewal	11.0
Stockholm	J E Sheehan Contracting Corp	MINE	60762	Catamount Ridge Mine	10/22/2008	Modification	57.9
Waddington	Waddington, Town of	MINE	60076	Hunter Pit	5/29/2008	Renewal	5.0
Steuben							
Avoca	Cohocton, Town of	MINE	80753	Harter Bros. Pit	12/22/2008	Renewal	8.4
Bath	Blades Construction Products C	MINE	80038	Steuben Crushed Stone	8/15/2008	Modification	64.2
Bath	Knight Settlement Sand & Grav	MINE	80013	Bath Pit	12/17/2008	Renewal	199.0
Bradford	Machuga, Edward J	MINE	80039	Machuga Mine	5/27/2008	Renewal	26.1
Campbell	Austin Construction LLC	MINE	80434	Cornell Pit	6/17/2008	Renewal	10.0
Campbell	Dalrymple Gravel & Contracting	MINE	80796	Smith Gravel Mine	9/18/2008	Renewal	77.6
Canisteo	Canisteo, Town of	MINE	80482	Campbell Pit	12/17/2008	Renewal	2.5
Erwin	Dalrymple Gravel & Contracting	MINE	80769	Smith Hill Road Pit	9/15/2008	Renewal	93.7
Erwin	Erwin, Town of	MINE	80302	Erwin Mine	3/28/2008	Renewal	16.0
Erwin	Erwin, Town of	MINE	80730	Town Of Erwin Gravel Pit	10/24/2008	Renewal	11.8
Fremont	Dansville, Town of	MINE	80739	Eisman Road #1 Mine	11/12/2008	Renewal	13.0
Lindley	Glenn O Hawbaker Inc	MINE	80153	Presho Pit	2/6/2008	New	31.3
Rathbone	Austin Construction LLC	MINE	80725	Saunders Road Pit	8/6/2008	Modification	27.0
Suffolk							
Brookhaven	Stargazer, LLC	MINE	10123	Hamptons Club @ Eastport	7/11/2008	New	6.7
Riverhead	Suffolk Cement Products Inc	MINE	10011	Suffolk Cement Osborne Ave	4/4/2008	Renewal	15.0
Smithtown	All Island Mason Supply Inc	MINE	10076	All Island Mason Supply Inc Mine	11/3/2008	Modification	16.0
Smithtown	R Schleider Contracting Corp	MINE	10061	R Schleider Contracting	10/28/2008	Renewal	21.0
Smithtown	Santilli Land Development LLC	MINE	10056	Santilli Land Development LLC	11/3/2008	Modification	12.0
Southampton	Sand Land Corp	MINE	10033	Sand Land Mining	11/3/2008	Renewal	32.0
Southampton	Wainscott Properties Inc	MINE	10041	Wainscott Properties Flanders Site	8/14/2008	Renewal	3.0
Sullivan							
Bethel	Bethel, Town of	MINE	30086	Blum Rd. Gravel Mine	10/3/2008	Renewal	9.5
Callicoon	Callicoon, Town of	MINE	30075	Youngsville Gravel Pit	10/8/2008	Renewal	4.9

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Sullivan							
Cochecton	Little Joseph Realty Inc	MINE	30596	Little Joseph Realty Inc Mine	7/31/2008	New	4.8
Mamakating	JML Quarries Inc	MINE	30007	Masten Lake Mine	8/12/2008	Modification	136.1
Thompson	E Tetz & Sons Inc	MINE	30097	Mongaup Valley Quarry	8/12/2008	Modification	161.2
Thompson	Levine, Edward	MINE	30384	Fast Eddies	8/12/2008	Modification	3.0
Tioga							
Barton	State Line Auto Auction Inc	MINE	70656	State Line Mine - Chapel Road	5/1/2008	Renewal	4.9
Candor	Candor, Town of	MINE	70940	Candor Catatonk Mine	12/3/2008	New	15.5
Candor	H L Robinson Sand & Gravel In	MINE	70473	Robinson Sand And Gravel - NYS Rout	12/17/2008	Renewal	29.7
Candor	Whetzel, Kim K	MINE	70704	Willseyville Mine -White Church Road	1/18/2008	Renewal	19.0
Owego	Dellapenna, Roseann	MINE	70733	Dellapenna Pit - Depot Road	4/28/2008	Modification	15.0
Owego	Gregory & Sons Inc	MINE	70195	Leo Spencer Mine - Route 38	6/30/2008	Renewal	22.0
Richford	Richford, Town of - Highway D	MINE	70067	Harrington Mine- NYS Route 79 East	12/12/2008	Modification	20.0
Spencer	Landstrom Gravel Co Inc	MINE	70011	Spencer Pits #1 And #2 NYS Route 34/	3/18/2008	Renewal	74.0
Tioga	Tioga, Town of	MINE	70662	Highway Mine	12/16/2008	Renewal	12.0
Tompkins							
Dryden	RMS Gravel Inc	MINE	70748	South Mine	10/14/2008	Renewal	52.3
Ithaca	Rancich, John	MINE	70849	Marshall	8/20/2008	Renewal	4.8
Lansing	Cayuga Crushed Stone Inc	MINE	70027	Portland Point Quarry	6/16/2008	Modification	126.0
Newfield	Eddy, Alfred C	MINE	70560	Sayles Gravel Mine	2/12/2008	Renewal	9.0
Ulster							
Hardenburgh	Beaverkill Realty Corp	MINE	30447	Davis Road Quarry	8/12/2008	Modification	4.0
Kingston	Eastern Materials LLC	MINE	30332	Jockey Hill Road Quarry	8/12/2008	Modification	22.0
Kingston	Kings Town Inc	MINE	30544		8/12/2008	Modification	11.4
Kingston	Lund, L Allen	MINE	30550		8/12/2008	Modification	4.0
Marbletown	Mombaccus Estates Ltd	MINE	30606	Peak Road Shale Mine	8/12/2008	Modification	8.3
Plattekill	Auchmoody, Leonard M	MINE	30563		3/14/2008	Renewal	10.0
Rochester	Bell, Gordon	MINE	30489	Gordon Bell Mine	1/10/2008	Renewal	6.7
Rochester	Frank Kortright Excavating Inc	MINE	30144	Rochester Center Road Pit	5/5/2008	Renewal	13.9
Rochester	Rochester, Town of	MINE	30077	Airport Rd.	4/28/2008	Renewal	18.0
Rochester	Rochester, Town of	MINE	30311	Krum Rd.	4/7/2008	Renewal	13.5
Rochester	Rochester, Town of	MINE	30311	Krum Rd.	4/7/2008	Renewal	13.5
Saugerties	Lehigh Northeast Cement Co	MINE	30328	Rothe Shale Quarry	8/12/2008	Modification	7.2
Saugerties	Northeast Solite Corp	MINE	30035	Mt Marion Quarry	8/12/2008	Modification	51.3

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Ulster							
Saugerties	Parr, William C	MINE	30154	Parr Shale Pit	8/12/2008	Modification	9.0
Saugerties	Saugerties, Town of	MINE	30233	Shear Rd Pit	8/12/2008	Modification	4.0
Shandaken	Shandaken, Town of	MINE	30272	Shandaken, Town of	2/7/2008	Renewal	6.0
Shawangunk	Garrison, Robert	MINE	30457	Orchard Drive Shale Pit	6/4/2008	Modification	11.9
Shawangunk	Pirog, Eugene	MINE	30392	Stewart Farm	11/10/2008	Renewal	24.2
Warren							
Bolton	Fine Homebuilding Company In	MINE	50807	Bolton Gravel Pit	6/25/2008	Modification	9.7
Bolton	Fine Homebuilding Company In	MINE	50807	Bolton Gravel Pit	1/28/2008	Modification	9.7
Bolton	Kingsley, Donald J	MINE	50827	Kingsley Sand & Gravel Bank	10/15/2008	Modification	2.5
Chester	Gilma Enterprises	MINE	50250	Gilma Site	3/19/2008	Renewal	12.0
Chester	Peckham Materials Corp	MINE	50031	Chestertown Site	8/15/2008	Modification	117.1
Chester	Peckham Materials Corp	MINE	50031	Chestertown Site	11/12/2008	Renewal	117.1
Glens Falls	Jointa Galusha LLC	MINE	50017	Jointa-Lime mine	8/15/2008	Modification	21.0
Johnsburg	Barton Mines Co LLC	MINE	50483	Ruby Mt. Quarry	8/15/2008	Modification	107.1
Queensbury	Great Escape Theme Park LLC	MINE	50619	Great Escape Sand pit	10/21/2008	Modification	3.3
Queensbury	Harris Co, Inc, Keith L	MINE	50453	McLaughlin's Pit	10/15/2008	Modification	15.4
Queensbury	O' Connor Realty Inc	MINE	50037	O'Connor's Gravel Pit	10/8/2008	Renewal	38.0
Washington							
Dresden	Champlain Stone Ltd	MINE	50384	South Bay Quarry	10/8/2008	Modification	24.6
Dresden	Champlain Stone Ltd	MINE	50384	South Bay Quarry	8/15/2008	Modification	24.6
Dresden	Dedrick, Richard	MINE	50819	Dedrick's Dresden Station Sand Pit	3/18/2008	Renewal	2.2
Dresden	Dresden, Town of, Highway De	MINE	50833	Steele Gravel Mine	10/8/2008	Renewal	4.7
Easton	Peckham Industries Inc	MINE	50568	Easton Site	8/15/2008	Modification	36.0
Easton	Peckham Materials Corp	MINE	50034	Middle Falls Quarry	10/21/2008	Renewal	7.3
Easton	Peckham Materials Corp	MINE	50034	Middle Falls Quarry	8/15/2008	Modification	7.3
Fort Ann	Champlain Stone Ltd	MINE	50502	Fort Ann Quarry	8/15/2008	Modification	16.3
Fort Ann	Delaware & Hudson Railway Co	MINE	50867	Fort Ann Mine	12/19/2008	Renewal	16.0
Fort Ann	Delaware & Hudson Railway Co	MINE	50867	Fort Ann Mine	8/15/2008	Modification	16.0
Fort Ann	Jointa Galusha LLC	MINE	50159	Fort Ann Bank	5/19/2008	Modification	49.0
Fort Ann	Kingsbury, Town of	MINE	50071	Tripoli Pit	10/8/2008	Modification	12.7
Fort Ann	Markie, Ronald	MINE	50794	Deweys Bridge Quarry	8/15/2008	Modification	2.8
Fort Ann	North Country Stone Inc	MINE	50985	Fort Ann Quarry	8/15/2008	Modification	6.5
Fort Ann	Schermerhorn Construction LL	MINE	50572	Yole Sand Pit	5/30/2008	Modification	15.0

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Washington							
Fort Ann	Washington County Dept of Pub	MINE	50002	Tripoli Sand & Gravel Pit	3/18/2008	Renewal	41.0
Fort Edward	James H Maloy Inc	MINE	50368	Fort Edward Bank	10/8/2008	Renewal	15.0
Hartford	Jointa Galusha LLC	MINE	50891	Smiths Basin Mine	8/15/2008	Modification	64.0
Jackson	Belton Farms Inc.	MINE	50846	Murray Hollow	10/7/2008	Renewal	5.0
Kingsbury	Peckham Industries Inc	MINE	50033	Hudson Falls Quarry	8/15/2008	Modification	109.3
Kingsbury	Yolam Construction Inc	MINE	50467	Rich Clay Pit	10/21/2008	Renewal	5.0
Salem	Hebron, Town of	MINE	50904	Town Mine #1	10/22/2008	Modification	7.6
Salem	Peckham Materials Corp	MINE	50328	E. Perry Bank	6/17/2008	Renewal	8.6
Whitehall	Adirondack Natural Stone	MINE	50977	Harvest quarry	8/15/2008	Modification	6.4
Whitehall	Champlain Stone Ltd	MINE	50674	Whitehall Quarry	8/15/2008	Modification	12.8
Whitehall	Hagadorn, Andre Graves, Marti	MINE	50916		8/15/2008	Modification	10.2
Whitehall	North Country Stone Inc	MINE	50962	Quarry #1 and #2	8/15/2008	Modification	5.8
Whitehall	Wood Construction	MINE	50944	Wood's Shale Mine	10/8/2008	Renewal	4.0
Wayne							
Butler	Butler, Town of	MINE	80396	T Hwy Pit	1/29/2008	Renewal	20.0
Macedon	Smith, Gregory P	MINE	80605	Smith Gravel Pit	11/21/2008	New	21.0
Palmyra	Marion, Town of	MINE	80128	Lyon Gravel Mine	5/22/2008	Renewal	35.3
Rose	Montemorano Bros., Inc.	MINE	80832	Warren Gravel Pit	12/30/2008	New	4.0
Wolcott	J M J Sand & Gravel Inc	MINE	80736	Red Creek Road Sand & Gravel Faciliti	11/5/2008	Renewal	6.3
Westchester							
Cortlandt	Liaskos, George	MINE	30609	Cortlandt Colonial Restaurant Site	8/12/2008	Modification	4.0
Wyoming							
Arcade	D & H Excavating Inc	MINE	90799	Bray Road Pit	9/29/2008	Modification	9.0
Arcade	D & H Materials Inc	MINE	90799	Bray Road Pit	9/29/2008	Modification	9.0
Bennington	Kissell, Raymond & Joan	MINE	90355	Kissell's Gravel Pit	5/22/2008	Renewal	14.5
Eagle	Davis, James F	MINE	90995	Davis Gravel Mine	4/28/2008	New	5.0
Eagle	Davis, James F	MINE	90995	Davis Gravel Mine	5/16/2008	Modification	5.0
Eagle	Wyco Construction Inc	MINE	90625	Wyco Gravel Pit	11/18/2008	Renewal	2.0
Gainesville	Hulme, Edward	MINE	90686	Johnson Gravel Pit	6/5/2008	Renewal	3.5
Java	North Country LLC	MINE	90991	Java Gravel Mine	5/16/2008	Modification	5.0
Java	North Country LLC	MINE	90991	Java Gravel Mine	4/21/2008	New	5.0
Orangeville	Orangeville, Town of	MINE	90535	Wright Pit	5/4/2008	Renewal	8.0
Wethersfield	Lafarge North America Inc	MINE	90283	Wethersfield Gravel Pit	10/28/2008	Renewal	11.0

Mined Land Permits Issued During 2008

7/27/2009

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Wyoming							
Wethersfield	Lafarge North America Inc	MINE	90283	Wethersfield Gravel Pit	5/13/2008	Modification	11.0
Wethersfield	Man O' Trees Inc	MINE	90527	Walton Gravel Pit	2/22/2008	Modification	20.0

* MINE = Mined Land Reclamation Permit
 AUTH = Bluestone Exploration Authorization

Statistics run August 2009

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Albany						
Bluestone *	1	0	66	30	0	30
Clay	2	4	137	75	34	41
Limestone	3	0	1,329	898	29	869
Sand and Gravel	11	27	564	521	275	246
Shale	1	8	137	139	32	107
Topsoil	0	2	44	44	43	1
County Totals	18	41	2,277	1,707	413	1,294
Allegany						
Clay	1	1	7	7	4	3
Glacial Till	0	2	3	2	2	0
Sand and Gravel	36	100	1,902	1,169	565	604
Sandstone	0	9	72	54	24	30
Shale	1	0	4	2	0	2
Topsoil	0	2	17	4	2	2
County Totals	38	114	2,005	1,237	597	640
Broome						
Bluestone *	30	18	333	248	33	215
Clay	0	3	40	12	6	6
Glacial Till	0	3	19	19	19	0
Sand and Gravel	24	31	1,571	1,440	748	692
Shale	1	0	0	38	7	31
Topsoil	0	1	3	3	3	0
County Totals	55	56	1,966	1,760	816	944
Cattaraugus						
Clay	0	2	16	16	16	0
Glacial Till	0	2	8	8	8	0
Peat	1	0	6	5	0	5
Sand and Gravel	68	71	4,940	2,930	1,243	1,687
Shale	0	4	21	21	21	0
Topsoil	0	1	15	15	15	0
County Totals	69	80	5,006	2,995	1,303	1,692
Cayuga						
Clay	2	4	70	36	22	14
Glacial Till	1	1	26	26	6	20
Limestone	1	0	225	74	0	74
Sand and Gravel	17	68	1,132	794	350	444
Shale	0	1	0	0	0	0
County Totals	21	74	1,453	931	378	553
Chautauqua						
Clay	1	2	94	94	80	14
Glacial Till	0	2	35	28	28	0
Sand and Gravel	51	111	2,126	1,230	711	519
Sandstone	0	2	56	24	12	12
Topsoil	0	3	24	31	31	0

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Chautauqua						
County Totals	52	120	2,335	1,407	862	545
Chemung						
Clay	0	1	4	4	4	0
Glacial Till	0	8	0	54	54	0
Sand and Gravel	24	52	1,098	965	465	518
Topsoil	3	0	59	35	6	29
County Totals	27	61	1,161	1,057	529	547
Chenango						
Bluestone*	5	2	76	57	13	45
Clay	0	1	13	1	1	0
Sand and Gravel	35	64	1,563	1,158	355	803
Sandstone	1	0	89	21	0	21
Shale	1	9	22	25	14	11
Topsoil	0	1	9	0	0	0
County Totals	42	77	1,773	1,263	383	880
Clinton						
Clay	0	2	2	4	4	0
Dolostone	1	0	40	5	0	5
Limestone	3	1	191	151	3	148
Sand and Gravel	53	82	2,981	1,775	723	1,051
Sandstone	5	0	211	114	0	114
Stone	1	0	69	23	0	23
Topsoil	0	7	53	65	43	22
County Totals	63	92	3,547	2,136	773	1,363
Columbia						
Clay	0	7	60	123	111	12
Limestone	2	0	1,299	358	0	358
Peat	2	11	65	77	62	15
Sand and Gravel	33	44	1,565	1,229	474	755
Shale	0	1	3	3	3	0
County Totals	37	63	2,992	1,790	650	1,140
Cortland						
Glacial Till	0	5	19	34	29	5
Sand and Gravel	18	55	1,198	976	569	407
Shale	0	1	1	1	1	0
County Totals	18	61	1,218	1,010	598	412
Delaware						
Bluestone *	45	31	545	430	87	344
Clay	1	0	5	5	2	4
Sand and Gravel	30	99	1,164	1,029	441	588
Sandstone	1	0	131	131	0	131
County Totals	77	130	1,845	1,595	529	1,066
Dutchess						

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Dutchess						
Dolostone	3	0	833	568	11	557
Glacial Till	0	1	0	0	0	0
Granite	2	0	353	111	5	106
Peat	0	1	0	140	140	0
Sand and Gravel	52	98	3,112	2,846	1,737	1,109
Shale	0	1	0	5	5	0
Stone	0	1	70	70	70	0
County Totals	57	102	4,368	3,740	1,968	1,771
Erie						
Clay	9	12	369	277	211	74
Glacial Till	0	3	72	65	65	0
Limestone	3	0	1,197	907	0	907
Sand and Gravel	40	38	2,715	1,760	838	921
Shale	2	0	11	6	0	6
Topsoil	1	4	420	250	247	3
County Totals	55	57	4,783	3,265	1,361	1,911
Essex						
Clay	0	2	6	6	4	2
Granite	4	0	449	168	1	167
Iron Ore	0	1	138	138	138	0
Limestone	0	2	2	4	4	0
Sand and Gravel	34	55	1,013	607	199	407
Topsoil	0	1	0	10	10	0
Wollastonite	3	0	226	221	0	221
County Totals	41	61	1,834	1,154	356	797
Franklin						
Clay	1	0	17	13	6	7
Granite	1	0	108	77	0	77
Sand and Gravel	69	75	1,680	1,083	319	763
Sandstone	2	0	53	23	0	23
Topsoil	0	4	12	32	30	2
County Totals	73	79	1,870	1,227	355	872
Fulton						
Glacial Till	0	1	0	2	2	0
Granite	1	0	113	69	2	67
Sand and Gravel	24	32	1,124	567	225	342
Topsoil	0	1	8	7	7	0
County Totals	25	34	1,245	645	236	409
Genesee						
Clay	0	1	3	3	3	0
Gypsum	0	0	60	52	30	22
Limestone	5	0	1,213	841	0	841
Marl	1	1	29	29	26	4
Sand and Gravel	18	26	2,147	1,037	454	583

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Genesee						
County Totals	24	28	3,451	1,962	513	1,449
Greene						
Clay	0	1	12	12	12	0
Glacial Till	0	1	10	10	10	0
Limestone	3	0	2,917	635	0	635
Sand and Gravel	11	19	348	290	116	173
Sandstone	1	1	129	18	4	14
Shale	7	3	302	211	22	189
Topsoil	0	1	8	8	8	0
County Totals	22	26	3,726	1,183	172	1,011
Hamilton						
Dolostone	1	0	35	35	0	35
Sand and Gravel	21	30	249	230	105	125
Stone	0	1	0	4	4	0
County Totals	22	31	284	269	109	160
Herkimer						
Clay	0	10	83	83	79	5
Dolostone	2	0	68	42	0	42
Limestone	3	0	681	478	0	478
Sand and Gravel	42	72	1,651	1,135	304	832
Topsoil	1	1	17	9	4	5
County Totals	48	83	2,500	1,747	386	1,361
Jefferson						
Clay	0	14	173	180	168	12
Granite	1	0	15	9	0	9
Limestone	18	7	1,302	991	22	969
Peat	0	3	46	23	14	9
Sand and Gravel	56	136	2,327	1,793	783	1,010
Shale	1	0	2	2	0	2
Topsoil	2	24	832	681	488	193
County Totals	78	184	4,696	3,679	1,475	2,204
Lewis						
Clay	0	3	6	6	6	0
Limestone	1	6	146	44	9	35
Sand and Gravel	37	93	1,040	886	322	564
Shale	3	20	128	127	68	59
Topsoil	0	1	0	3	3	0
Wollastonite	1	0	54	44	8	36
County Totals	42	123	1,373	1,110	417	693
Livingston						
Glacial Till	0	2	0	11	11	0
Peat	0	1	3	3	3	0
Salt	2	0	9,055	727	30	697
Sand and Gravel	22	36	1,460	1,263	465	798

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Livingston						
County Totals	24	39	10,518	2,004	509	1,495
Madison						
Clay	0	1	10	1	1	0
Glacial Till	0	1	18	18	18	0
Limestone	3	0	422	266	0	266
Peat	0	1	70	5	5	0
Sand and Gravel	20	33	1,037	607	235	372
Topsoil	0	1	49	0	0	0
County Totals	23	37	1,606	897	259	638
Monroe						
Dolostone	2	0	250	245	192	53
Glacial Till	0	6	25	71	71	0
Limestone	1	0	298	262	10	252
Sand and Gravel	9	29	1,542	1,038	687	351
County Totals	12	35	2,115	1,616	960	656
Montgomery						
Clay	0	1	4	4	4	0
Dolostone	2	0	308	271	0	271
Limestone	1	1	207	175	7	168
Sand and Gravel	5	6	263	213	63	150
Shale	0	1	0	3	3	0
County Totals	8	9	782	667	77	590
Multicounty						
Limestone	2	0	588	448	0	448
Sand and Gravel	1	0	2	2	0	2
County Totals	3	0	590	450	0	450
Multi-Region						
Salt	1	0	13,417	9,260	0	9,260
County Totals	1	0	13,417	9,260	0	9,260
Nassau						
Sand and Gravel	1	4	334	334	330	4
County Totals	1	4	334	334	330	4
Niagara						
Clay	9	11	596	435	257	178
Dolostone	1	0	417	263	89	174
Glacial Till	0	1	10	10	10	0
Limestone	2	0	634	367	0	367
Sand and Gravel	2	14	196	188	159	29
Topsoil	1	0	5	5	0	5
County Totals	15	26	1,858	1,268	515	753
Oneida						
Clay	0	4	20	30	25	5

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Oneida						
Granite	1	0	100	100	0	100
Industrial Sand	0	4	500	20	10	10
Limestone	1	0	342	264	6	258
Sand and Gravel	60	108	3,372	1,706	762	944
Shale	0	2	6	6	6	0
Topsoil	1	1	8	8	3	5
County Totals	63	119	4,347	2,133	812	1,321
Onondaga						
Clay	1	3	50	28	22	6
Glacial Till	1	17	201	208	185	23
Limestone	7	4	2,147	1,649	116	1,533
Sand and Gravel	29	33	1,230	1,023	554	469
Shale	0	4	80	18	18	0
Topsoil	4	5	242	182	128	54
County Totals	42	66	3,949	3,108	1,023	2,085
Ontario						
Clay	0	3	52	52	28	24
Glacial Till	0	1	0	9	9	0
Limestone	2	0	665	378	0	378
Sand and Gravel	39	46	3,400	2,472	1,031	1,442
Topsoil	0	1	0	8	8	0
County Totals	41	51	4,117	2,920	1,076	1,844
Orange						
Dolostone	1	4	155	155	50	105
Glacial Till	0	1	3	2	2	0
Limestone	0	1	0	36	6	30
Sand and Gravel	33	83	1,932	1,764	1,066	698
Sandstone	1	0	95	43	0	43
Shale	6	0	311	175	1	174
Topsoil	0	1	10	10	10	0
County Totals	41	90	2,506	2,184	1,135	1,050
Orleans						
Clay	0	4	64	60	60	0
Dolostone	1	0	316	195	38	157
Glacial Till	0	3	0	8	8	0
Limestone	1	0	140	81	34	47
Sand and Gravel	13	13	872	493	270	222
Sandstone	4	0	253	194	3	191
County Totals	19	20	1,644	1,031	413	618
Oswego						
Glacial Till	0	4	25	21	21	0
Industrial Sand	0	1	1	1	1	0
Limestone	1	0	7	4	0	4
Sand and Gravel	95	113	5,483	3,357	1,394	1,963
Topsoil	4	2	159	88	38	50

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Oswego						
County Totals	100	120	5,675	3,471	1,454	2,017
Otsego						
Bluestone *	0	1	5	5	5	0
Clay	0	3	7	10	10	0
Sand and Gravel	33	41	1,171	945	339	606
Shale	0	5	20	4	2	2
Topsoil	1	0	5	3	0	3
County Totals	34	50	1,208	967	356	610
Putnam						
Limestone	1	0	56	56	0	56
Sand and Gravel	2	15	62	92	71	21
County Totals	3	15	118	148	71	77
Rensselaer						
Clay	1	4	31	24	16	8
Limestone	1	0	71	31	0	31
Peat	1	0	4	4	2	2
Sand and Gravel	52	77	2,658	1,987	436	1,551
Sandstone	4	0	352	181	0	181
Shale	1	1	149	142	6	136
County Totals	60	82	3,265	2,368	460	1,908
Rockland						
Dolostone	2	0	417	242	0	242
Sand and Gravel	0	1	0	0	0	0
Trap Rock	2	0	191	191	0	191
County Totals	4	1	608	433	0	433
Saratoga						
Clay	3	7	72	59	30	29
Dolostone	1	0	71	67	0	67
Granite	2	0	559	191	13	178
Industrial Sand	0	2	90	95	95	0
Limestone	2	0	448	376	41	335
Sand and Gravel	51	87	2,380	1,570	448	1,122
Shale	1	1	12	6	1	5
Topsoil	1	7	85	84	50	35
County Totals	61	104	3,717	2,449	678	1,770
Schenectady						
Clay	0	1	15	15	15	0
Limestone	1	0	3	3	0	3
Peat	1	0	107	13	0	13
Sand and Gravel	7	8	344	301	98	203
Shale	1	1	26	12	6	6
County Totals	10	10	495	344	119	225
Schoharie						

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Schoharie						
Limestone	4	0	525	377	0	377
Sand and Gravel	11	16	221	210	70	140
Shale	2	6	30	27	10	17
County Totals	17	22	776	613	80	534
Schuyler						
Clay	0	1	0	20	20	0
Glacial Till	0	1	0	2	2	0
Sand and Gravel	15	24	527	447	135	312
Shale	0	1	0	1	1	0
Topsoil	0	1	2	2	2	0
County Totals	15	28	529	472	160	312
Seneca						
Clay	0	12	1,096	1,096	386	711
Limestone	1	0	515	282	0	282
Sand and Gravel	4	3	188	122	81	40
Shale	0	1	2	2	2	0
County Totals	5	16	1,801	1,501	469	1,032
St. Lawrence						
Clay	2	10	271	250	199	51
Dolostone	4	0	609	315	11	304
Granite	1	0	4	4	0	4
Limestone	1	0	99	58	0	58
Marble	1	0	173	84	2	82
Sand and Gravel	87	191	3,179	2,351	1,114	1,236
Sandstone	2	0	34	9	0	9
Talc	2	0	194	194	41	153
Topsoil	2	25	678	511	338	173
Zinc	1	4	1,684	549	117	432
County Totals	103	230	6,925	4,324	1,822	2,502
Statewide						
Sand and Gravel	0	1	0	0	0	0
County Totals	0	1	0	0	0	0
Steuben						
Clay	0	1	0	25	25	0
Glacial Till	0	6	11	55	55	0
Sand and Gravel	83	83	3,328	2,722	682	2,040
Sandstone	1	0	64	64	0	64
Topsoil	1	2	17	14	13	1
County Totals	85	92	3,420	2,880	775	2,105
Suffolk						
Sand and Gravel	36	47	1,807	1,783	625	1,158
County Totals	36	47	1,807	1,783	625	1,158
Sullivan						

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Sullivan						
Sand and Gravel	25	47	1,189	875	416	459
Sandstone	3	1	804	591	2	589
Shale	2	1	12	8	3	5
County Totals	30	49	2,005	1,474	421	1,053
Tioga						
Glacial Till	0	2	3	5	5	0
Sand and Gravel	33	38	2,017	1,574	651	923
Topsoil	1	1	31	23	18	5
County Totals	34	41	2,052	1,602	674	928
Tompkins						
Bluestone*	1	0	7	7	0	7
Clay	0	1	4	4	4	0
Glacial Till	0	3	19	11	11	0
Limestone	1	0	126	126	103	23
Sand and Gravel	12	27	591	411	162	250
Topsoil	0	2	2	5	5	0
County Totals	14	33	749	564	285	279
Ulster						
Bluestone*	3	0	56	31	0	31
Clay	3	3	53	53	36	17
Dolostone	1	0	397	11	0	11
Glacial Till	0	1	0	9	9	0
Limestone	2	0	364	334	23	311
Sand and Gravel	25	65	1,333	989	529	461
Sandstone	1	1	15	15	4	11
Shale	13	23	285	220	94	126
Topsoil	0	1	0	10	10	0
County Totals	48	94	2,502	1,673	705	968
Warren						
Garnet	1	1	180	162	55	107
Granite	1	0	183	117	0	117
Limestone	1	0	21	21	0	21
Sand and Gravel	33	32	881	523	126	397
County Totals	36	33	1,265	823	181	642
Washington						
Clay	1	2	52	15	10	5
Dolostone	1	0	197	64	0	64
Glacial Till	0	1	0	1	1	0
Granite	9	0	193	94	0	94
Limestone	3	0	233	153	0	153
Sand and Gravel	38	80	1,687	1,141	476	666
Sandstone	1	1	84	26	1	25
Shale	2	1	18	10	6	4
Slate	1	0	25	5	0	5
Topsoil	1	2	75	41	26	15

Mine Commodities 2008

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Washington						
County Totals	57	87	2,563	1,550	519	1,031
Wayne						
Clay	0	1	28	28	28	0
Dolostone	2	0	398	274	18	256
Glacial Till	0	5	25	25	25	0
Limestone	1	0	72	55	0	55
Sand and Gravel	38	93	2,922	1,775	826	949
Topsoil	0	2	2	2	1	1
County Totals	41	101	3,446	2,159	897	1,261
Westchester						
Emery	0	3	20	20	20	0
Glacial Till	0	1	8	8	8	0
Sand and Gravel	0	7	22	32	32	0
Shale	1	0	4	4	0	4
County Totals	1	11	54	64	60	4
Wyoming						
Clay	0	1	8	8	8	0
Sand and Gravel	27	41	1,346	834	570	264
Topsoil	0	1	15	15	15	0
County Totals	27	43	1,369	857	593	264
Yates						
Clay	1	1	35	25	20	5
Glacial Till	0	2	0	2	2	0
Salt	0	1	0	50	50	0
Sand and Gravel	12	8	344	256	100	157
County Totals	13	12	379	333	172	161
State Totals	2,131	3,595	152,219	99,591	33,864	65,754

* Bluestone includes both regularly permitted mines and Exploration Authorization

Statistics run August 2009