

**New York State
Oil, Gas
and
Mineral Resources
2009**

**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 99,704 miles and performed 2,243 inspections.

Permits and Completions

Gas:	Permits	246	Completions	134
Oil:	Permits	279	Completions	191
Other:	Permits	27	Completions	85
Total:	Permits	552	Completions	410

Wells Reported (All Types) 2009 - 14,512

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

Production and Market Value

Gas	44.85 bcf	Value down	58%
Oil	323,536 bbl	Value down	55%
Total O&G Market Value \$206 million			

State Leasing - 93 total leases were in effect covering 63,676 acres; 236 producing wells on 63 leases paying production royalties.

Revenues from Oil and Gas

State Revenues	\$1.4 million
Local Govt. Taxes (est.)	\$6.2 million
Landowner Royalties (est.)	\$25.9 million

Underground Natural Gas Storage - 26 facilities were 76% full at year-end.

Total Storage Capacity	240 bcf
Working Gas Capacity	123 bcf
Max. Deliverability	2.37 bcf/day

Solution Mining - Five facilities produced 1.89 billion gallons of brine, equal to 2.21 million metric tons of salt.

Financial Security - In 2009 New York held \$25.5 million to guarantee well plugging and site reclamation.

Mined Land Reclamation

Inspections - Staff traveled 138,161 miles to perform 2,475 mine inspections.

Permits Issued

Total Permits	538
New Permits	34
Renewals & Modifications	504

Active Mines 2,122

Estimated Economic Impact \$4.9 Billion

Annual Regulatory Fees \$4.0 Million

US Production Rank by Quantity

Wollastonite	1st	Salt	3rd
Garnet	1st	Talc, Zinc	4th
Peat	2nd		

NY Rank by Value

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

Common Mine Types

Sand & Gravel	1,743
Limestone	87
Bluestone	81

Owner Type

Industry	1,678
County	49
Town	395

Net Affected Acreage 47,934

Life-of-Mine Acreage 119,969

Reclaimed Acreage, 2009 1,665

Reclaimed Since 1975 30,102

Financial Security - In 2009 New York required \$189.7 million to guarantee mine site reclamation.

Division of Mineral Resources Program Highlights

New York State gas production in 2009 was 44.85 billion cubic feet (bcf), down 11% from the previous year. Trenton-Black River production declined, but still accounted for 60% (27.1 bcf) of 2009 gas production. Gas production from the Herkimer increased 441% from the previous year to 2.46 bcf in 2009. Oil production declined 18.5% from the previous year to 323,536 barrels in 2009.

The total number of wells completed dropped 18% from 2008. For the first time in 11 years no new Trenton-Black River Fields commenced production. The significant increase in gas production from the Herkimer in 2009 was the result of 12 additional wells commencing production. In 2009 there were a total of 91 wells statewide with Herkimer production.

Drilling permits issued decreased 27% in number to 552 in 2009. Total drilled depth of the wells for the year was over 760,000 feet (approximately the distance from Albany to Syracuse). Drilling rig availability continued to be a significant concern for New York's oil and gas operators.

In 2009 New York collected \$637,254 in royalties from the wells producing from State land. As of the end of 2009, a total of 63,676 acres of state land were under lease for oil and gas production and gas storage for a total annual revenue of \$790,486.

The Division of Mineral Resources conducted 52 compulsory integration hearings during 2009, which resulted in 49 finalized orders. One unit required further integration proceedings. The remaining 2 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.

The Division received a total of 50 Marcellus permit applications (3 vertical, 47 horizontal) during 2009. None of the horizontal applications were processed. In 2009 there were 16 Marcellus wells producing in the state, all vertical wells.

In 2009 there were 2,122 active DEC-regulated mines in New York State, a drop of 44 mines from 2008 and the 11th 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 34 of the 538 mining permits issued in 2009 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 28 of the new permits issued in 2009, or 82%, were for sand and gravel.

Due to the recent economic downturn, several bluestone operators have sold out or struggle to remain in business. Interest in bluestone mining declined during 2009. Only four new mines were permitted and no Exploration Authorizations were issued.

A total of 47,934 acres were affected by mining in 2009 out of a total approved life-of-mine area of 119,969 acres. The Division continued to have success promoting concurrent reclamation with 1,212 acres reclaimed at 177 operating mines. Final reclamation of 453 acres occurred at 68 closed mines bringing the 2009 total to 1,665 acres. Roughly 30,102 acres of land affected by mining have been reclaimed since 1975.

In 2009 the Division held over \$189.7 million in financial security to guarantee mine reclamation. The increase of \$22 million from the previous year was due, in part, to a new method for calculating financial security introduced in 2005. The improved method brings financial security requirements more in line with modern-day reclamation costs.

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2009 Fact Sheets: Products of New York State Mines

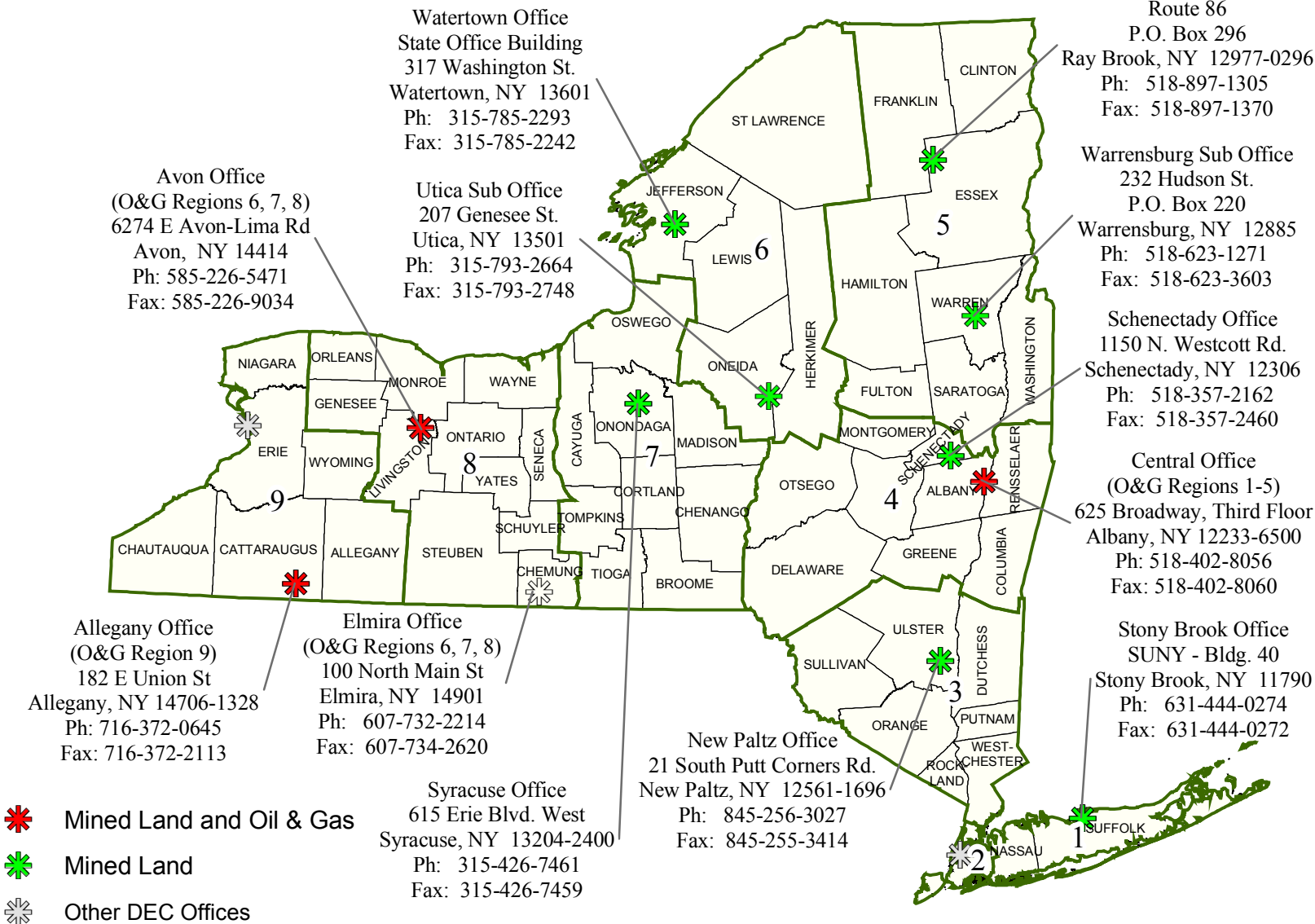
Details on the economic rank for major mine products and location of the largest mines

Appendices

Appendix 1 - Oil and Gas Data

Appendix 2 - Mined Land Data

Map 1 - Division of Mineral Resources Regional Service Areas



2009 New York Oil, Gas and Solution Mining Industries At a Glance

Production and Market Value

Gas	44.85 bcf	Value down 58%
Oil	323,536 bbl	Value down 55%
Total Market Value	\$206 Million	

All Reported Wells 14,512

Active Wells

Natural Gas	6,628
Oil	3,401
Gas Storage	953
Solution Salt	108

Revenues In Millions

State Leasing & Permit Fees	\$1.4 Million
Local Government (est.)	\$6.2 Million
Landowner Royalties (est.)	\$25.9 Million

Underground Gas Storage

26 facilities, 76% full at year-end	
Total Storage Capacity	240 bcf
Working Gas Capacity	123 bcf
Max. Deliverability	2.37 bcf/day

Financial Security

Plugging & Reclamation
\$25,495,373

State Leasing

93 leases covered 63,676 acres
236 productive wells

Solution Mining

Five facilities produced 1.89 billion gallons
of brine (2.21 million metric tons salt)

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 2009 production of 44.85 bcf was enough to heat 650,000 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 57.8% to \$206 million in 2009 from \$488 million in 2008. The value of natural gas decreased over 58% from \$450 million to \$188.8 million. The value of New York's oil also declined in 2009 to a value of \$17.3 million, down 54.6% from \$38.1 million in 2008. The sharp downturn in the market value for both oil and gas can be attributed to the steep reductions in price for both commodities and the lower reported production volumes for each.

Tax Revenues to Local Governments

Communities in oil and gas producing areas also benefit from the industry's activity. The Division estimated that real property taxes on 2009 production totaled roughly \$6.2 million, a 57.5% decrease from the previous year.

Local governments assess their taxes on a unit of production value basis. The Unit of Production is a five-year average which was created by the NY State Division of Equalization and Assessment to help dampen the impact of fluctuating oil and gas prices.

State Lease Oil and Gas Prices

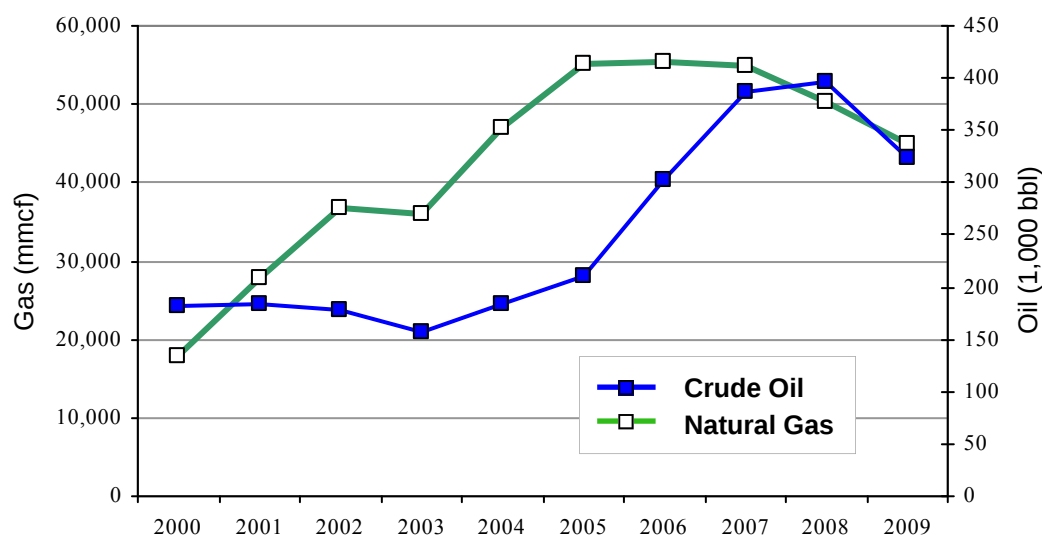
The average wellhead natural gas price of \$4.25 per mcf in 2009 was down sharply from \$8.94 in 2008. The average price for oil of \$57.82 per bbl was also down sharply from \$99.29 per bbl in 2008. These average prices were obtained from royalty payments made to New York for leases associated with 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 \$26 million in royalties in 2009.

Approximately 500 of New York's gas well operators (mostly landowners) own just one well. Typically, these wells are no longer commercially productive but can provide many years of natural gas service to help reduce or eliminate the landowner's home heating costs.

Chart 1 - New York State Oil and Gas Production, 2000 - 2009



Production of Oil and Gas

Natural Gas Production

New York's reported natural gas production for 2009 was 44.85 bcf, down from 50.32 bcf in 2008. While production decreased in the Trenton-Black River (22%), production from other formations rose 14% as a group, with a notable increase from the Herkimer (441%).

In 2009 Chemung County was the top gas-producing county. Chemung and Steuben counties accounted for 58% of New York's 2009 production. Roughly 27.1 bcf of the state's 44.85 bcf total gas production in 2009 came from just 100 producing Trenton-Black River wells, with one (1) well alone producing 2.5 bcf. Chautauqua County continued to rank third (see Table 1).

Oil Production

In 2009 New York's oil production decreased 19% to 323,536 barrels from 397,060 in 2008.

Top Producers

In 2009 the top gas producer was Fortuna Energy Inc., at 22.61 bcf of gas, and the top oil producer was East Resources, at 90,235 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, 2009

County	Gas (mcf)	Active Gas Wells	Average mcf/Well
Chemung	13,890,161	46	301,960
Steuben	12,273,217	62	197,955
Chautauqua	6,410,052	3,332	1,924
Erie	2,362,988	1,019	2,319
Cattaraugus	1,347,206	536	2,513
Chenango	1,599,381	28	57,121
Seneca	1,450,148	214	6,776
Cayuga	1,068,846	290	3,686
Madison	951,077	55	17,292
Schuyler	816,884	18	45,382

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, 2004 - 2009

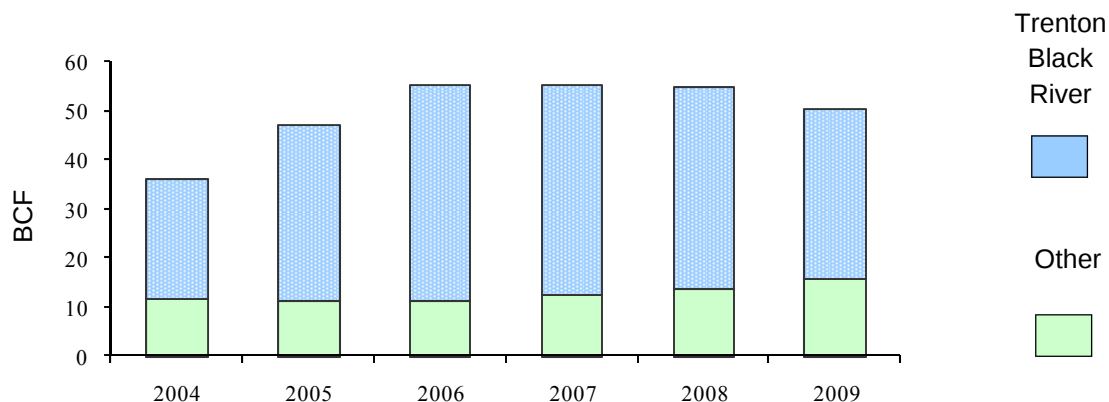


Table 2 - Top 10 Gas Producing Companies, 2009

Company	2009 Gas (mcf)	2008 Rank	2009 Change
1. Fortuna Energy, Inc.	22,610,024	1	-28%
2. Chesapeake Appalachia, LLC	7,297,811	2	+31%
3. Nornew, Inc.	2,550,458	6	+139%
4. U. S. Energy Development Corp.	2,345,702	4	+47%
5. Range Resources-Appalachia, LLC	2,265,461	3	-1%
6. EnerVest Operating, LLC	1,041,421	5	-9%
7. Universal Resources Holdings, Inc.	584,513	9	+25%
8. Ardent Resources, Inc.	519,709	>10	+23%
9. Untied States Gypsum Co.	514,315	7	-8%
10. Seneca Resources Corp.	452,946	10	+6%

Table 3 - Top 10 Oil Producing Companies, 2009

Company	2009 Oil (bbl)	2008 Rank	2009 Change
1. East Resources, Inc.	90,235	1	-27%
2. McCracken, Carl A. III	39,554	2	+13%
3. Dallas Energy, LLC	20,021	4	-14%
4. Copper Ridge Oil, Inc.	18,118	5	-14%
5. US Energy Development Corp.	13,056	>10	+396%
6. Pefley Oil & Gas, Inc.	11,262	9	+29%
7. Johnson, Mark & Troy	10,878	7	+1%
8. Nathan Petroleum Corp.	7,689	6	-35%
9. Otis Eastern Services, Inc.	6,371	8	-36%
10. Bouquin, Fred L.	6,170	>10	-11%

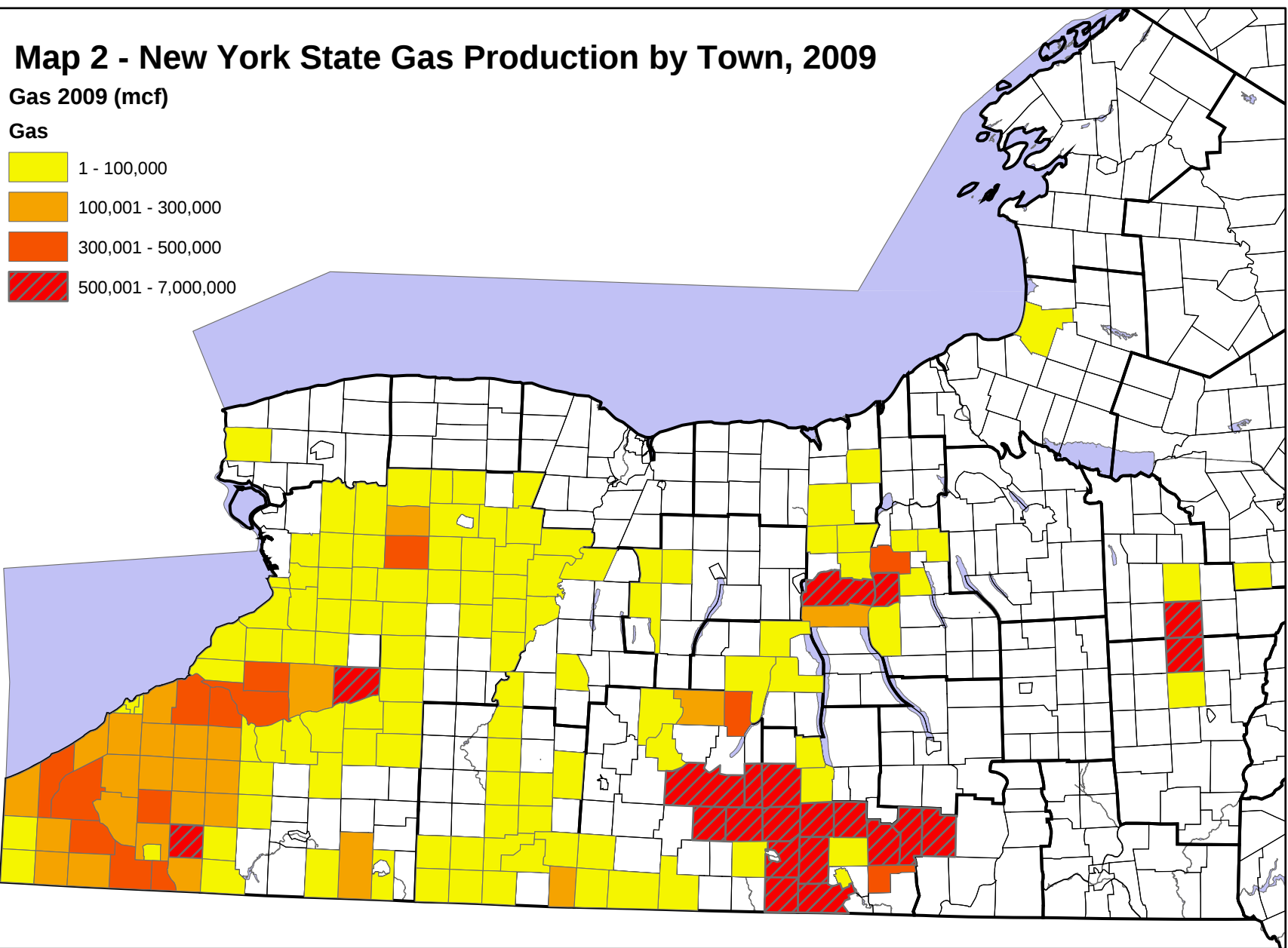


Table 4 - Production by Geologic Formation, 2009

Formation	Wells¹	Gas (mcf)	Oil (bbl)
Devonian Shale	28	23,316	0
Undifferentiated Canadaway Group ²	4,121	288,648	237,335
Perrysburg	1,001	221,724	44,186
Tully	11	46,753	50
Hamilton	4	9,436	0
Marcellus	27	56,147	0
Onondaga	78	57,066	2,172
Oriskany	37	95,181	0
Helderberg	1	0	0
Akron	29	14,426	0
Herkimer-Oneida- Oswego	91	2,460,382	0
Medina	6,560	10,532,655	300
Bass Island	80	104,983	12,683
Queenston	581	2,521,395	0
Trenton	8	33,092	0
Black River	128	27,125,529	0
Little Falls	2	50,122	0
Theresa	23	502,561	0
Other	412	706,205	2,660

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, 2009*

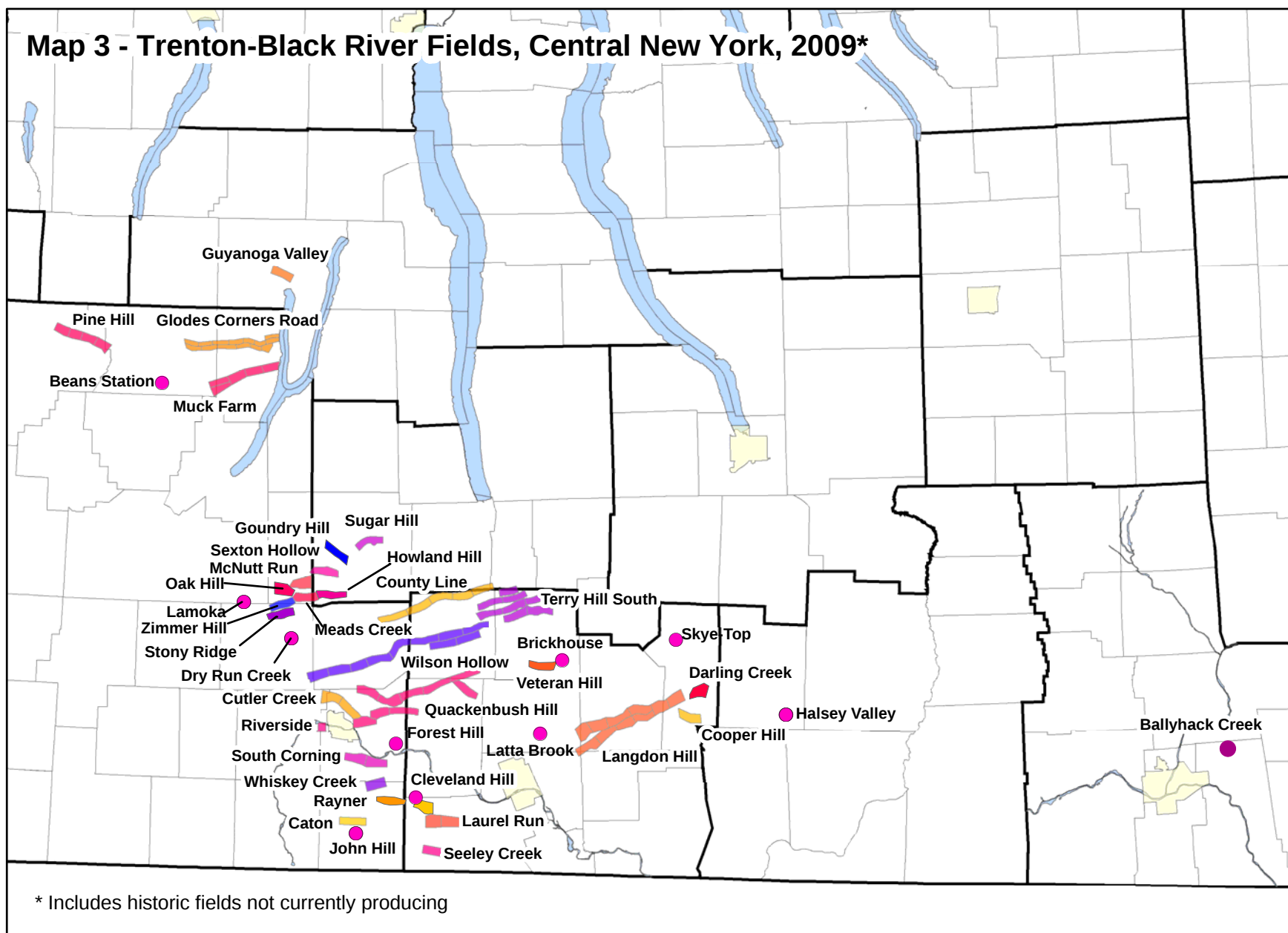


Table 5 - Top 10 Wells, Trenton-Black River Production, 2009

Well Name	API Identification Number	2009 Production (mcf)	County/ Field
Nowlan 1	31015260370000	2,494,309	Chemung/Langden Hill
Gross D1	31101239020000	1,550,769	Steuben/Quackenbush Hill
Dzybon 1	31101238670000	1,284,639	Steuben/Forest Hill
Gillis 1	31101231100000	1,197,080	Steuben/Rayner
Lovell 1323	31015228310000	1,008,617	Chemung/Quackenbush Hill
Reed 1	31101230550000	969,728	Steuben/Quackenbush Hill
Harmyk 1	31015261680000	916,746	Chemung/Langdon Hill
Hartman, BJ 1	31101232270000	902,995	Steuben/Raynor
Cotton-Hanlon 2	31015239870000	763,315	Chemung/Cramer Hollow
Winter G 1A	31107238550100	733,071	Tioga/Halsey Valley

Table 6 - Top 10 Fields, Trenton-Black River Production, 2009

Field Name	2009 Production (mcf)	2008 Production (mcf)	Cumulative Production Year-End 2009	First Year of Production
Quackenbush Hill	6,088,781	7,801,356	101,818,312	2000
Langdon Hill	4,427,589	2,260,014	15,728,669	2001
Wilson Hollow	1,655,982	2,111,885	45,819,517	1999
Rayner	1,649,520	2,728,342	14,095,138	2005
Whiskey Creek	709,732	860,383	6,378,607	2003
Darling Creek	630,544	1,530,278	10,074,162	2006
Terry Hill South	396,890	231,748	9,268,295	2001
Muck Farm	329,704	351,543	9,541,226	1999
Seeley Creek	146,329	398,253	6,010,648	2004
Glodes Corners Road	126,382	144,410	10,153,938	1996

Drilling Permits and Well Completions

Drilling Permits

DEC issued 552 drilling permits in 2009, down 25% from the previous year. This included 246 natural gas, 279 oil, 4 brine, 4 stratigraphic, and 19 underground gas storage well permits.

In 2009 DEC issued permits for wells in 18 counties; the top 3 were Cattaraugus County (155), Allegany County (130) and Erie County (105). Most of the oil drilling permits were issued for Cattaraugus (139) and Allegany (125) counties. Erie (54) and Chautauqua (31) counties had the highest number of gas permits.

Well Spuds and Completions

The number of wells spud (started) in 2009 was 252. The total number of completions decreased 27% to 410. Gas well completions decreased 53% in 2009 while oil well completions increased 2% from 2008.

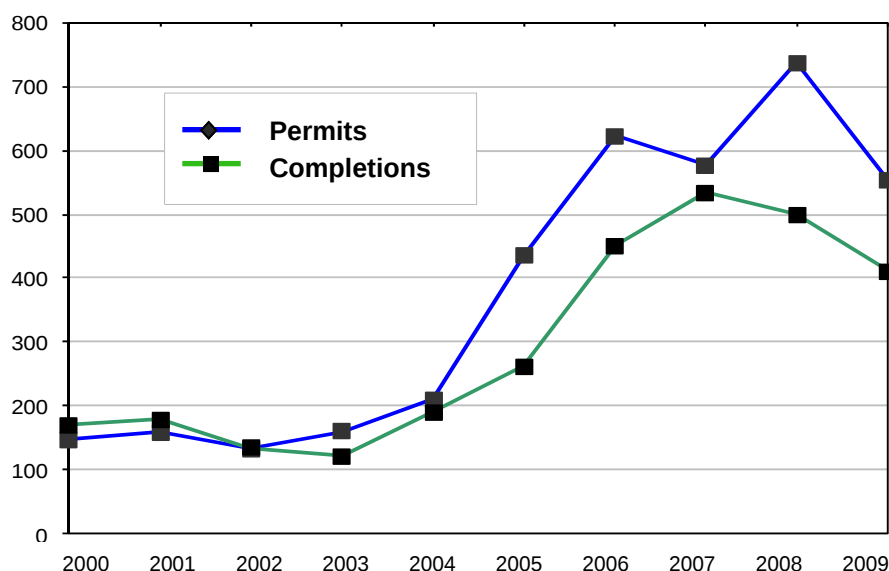
Wildcats and Extensions

Operators drilled 64 gas wildcat wells and 3 gas extension wells in 2009. No oil wildcat wells were drilled.

Formations Permitted

Industry interest in the Black River and Trenton formations slowed, with 8 permits issued in 2009. Interest in the Herkimer remained constant with 27 permits issued in both 2008 and 2009. Other primary gas targets included the Medina and Queenston for a total of 191 permits. The Division issued 279 permits for the State's main oil-producing formations (Perrysburg and Undifferentiated Canadaway Group). Two permits were issued for vertical Marcellus wells in 2009.

Chart 3 - Drilling Permits and Completions, 2000 - 2009



Drilling Permits, 2009

Gas	246
Oil	279
Other	27
Total	552

Well Completions, 2009

Gas	134
Oil	191
Other	85
Total	410

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 New York, Ohio, Pennsylvania, and West Virginia as well as small areas of Maryland, Virginia, Kentucky and Tennessee. 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 500 tcf based on continued evaluation of Marcellus drilling in Pennsylvania and West Virginia.

New York State's 2009 Marcellus production totaled 56,147 mcf from 16 vertical wells. DEC received 50 permit applications for Marcellus wells during 2009, predominately from Chesapeake Appalachia, LLC and Fortuna Energy, Inc. Forty-seven of the 50 applications were for horizontal wells and therefore remain on hold, along with 11 other horizontal applications received prior to 2009, pending the completion of the DEC's Supplemental Generic Environmental Impact Statement on the Oil, Gas and Solution Mining Regulatory Program (SGEIS).

The SGEIS was undertaken in 2008 following the directive of the Governor to supplement the 1992 Generic Environmental Impact Statement (GEIS) to address horizontal drilling and high-volume hydraulic fracturing in the Marcellus Shale and other low-permeability gas reservoirs. 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.

The document's development began with six public scoping meetings held in the Southern Tier from November to early December 2008, where the public could recommend topics to be covered in the SGEIS. DEC also accepted comments submitted directly to the agency until mid-December of 2008. Following the review of over 3,700 written comments and transcripts from the scoping meetings, DEC released the Final Scope for the draft SGEIS in early February 2009.

During the months that followed, DEC compiled information on horizontal drilling and high-volume hydraulic fracturing in order to develop the draft SGEIS which was released on September 30, 2009. Assistance with preparation of the draft SGEIS was provided by the New York State Department of Health and four consultants contracted by the New York State Energy Research and Development Authority.

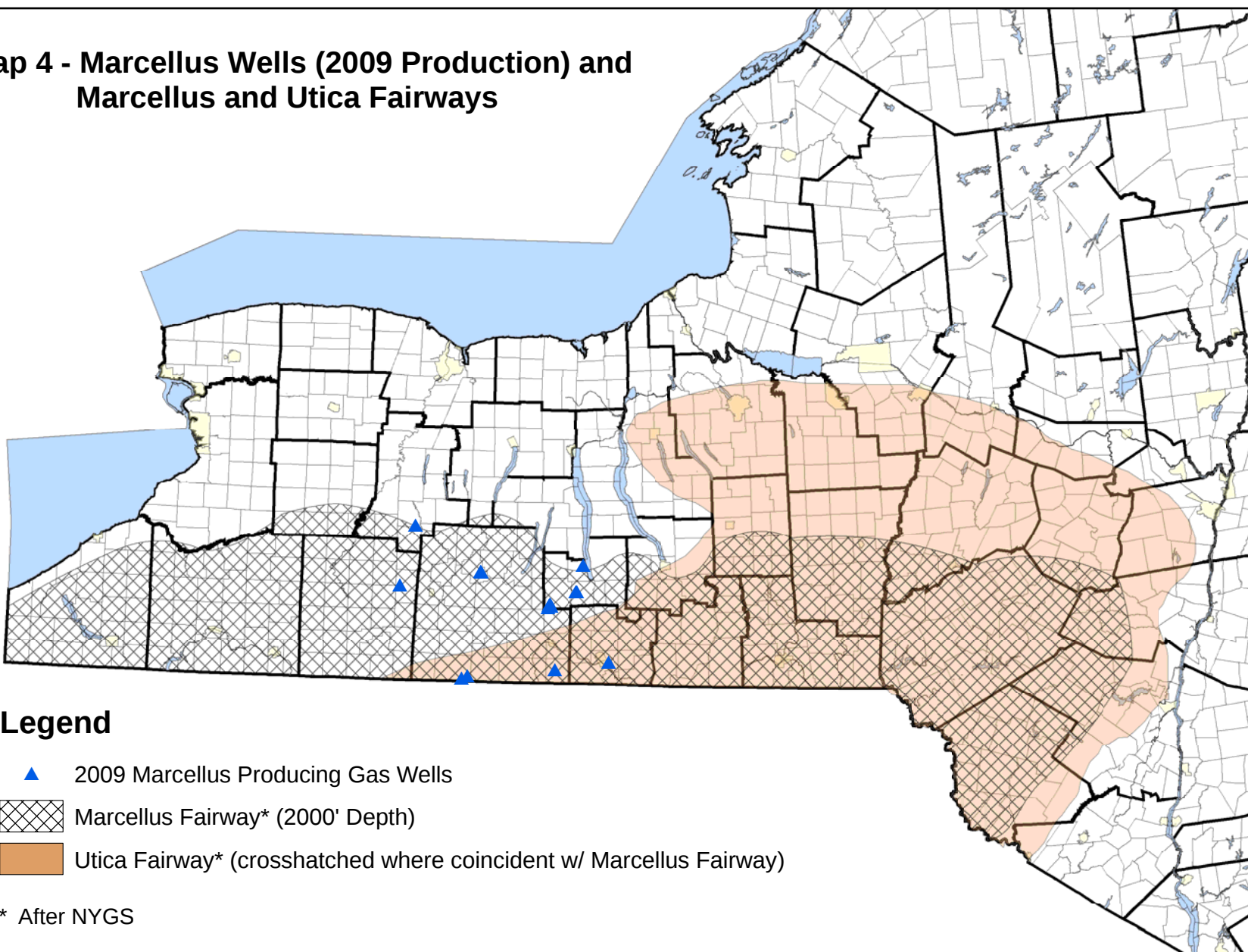
At over 800 pages, the draft SGEIS provides detailed descriptions of the proposed operations, identifies potential environmental impacts, and outlines the safety measures, protection standards, best management practices and mitigation strategies well operators would have to follow in order to obtain a well permit. The draft SGEIS is available on the Department's website at <http://www.dec.ny.gov/energy/58440.html>.

At the time of release, the public was provided a 60-day period within which to provide comments on the document. However numerous requests from legislators, government agencies, environmental advocacy and other non-governmental organizations, as well as newspapers and individuals, resulted in a decision to extend the public comment period until December 31, 2009. During this period, over 13,300 written comments were submitted via traditional mail, email, and a newly developed web-based submission system. Additionally, 200 verbal comments were received during four public meetings held across the Southern Tier and in New York City. These meetings, held in late October and early November, were collectively attended by more than 2,500 people.

DEC staff will review and consolidate all comments submitted on the draft SGEIS and will provide responses in the form of a responsiveness summary. This document will be issued as part of the final SGEIS following any necessary and appropriate revisions to the draft SGEIS. Only after the SGEIS process is complete will DEC begin issuing applications for permits to drill horizontal wells where high-volume hydraulic fracturing is proposed unless applicants prepare a project-specific supplemental EIS.

The Marcellus is only one of several important low-permeability shale gas reservoirs in New York State; the Utica Shale and Trenton Group shales, particularly in Otsego and Madison Counties respectively, also continue to attract interest. 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 (i.e. areas considered likely to produce economic quantities of gas).

Map 4 - Marcellus Wells (2009 Production) and Marcellus and Utica Fairways



Compliance and Enforcement

Inspections

In 2009 Oil and Gas staff traveled 99,704 miles to perform 2,243 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 2009 the Oil and Gas Program assessed \$40,000 in fines and penalties.

Permit Fees

Total oil and gas permit fees collected by the Division equaled \$620,010 in 2009, of which \$58,000 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 2009 the Division managed 93 leases covering roughly 63,676 acres of State land, an increase from the previous year's 63,591 acres. Two non-competitive leases were finalized.

At year-end 2009 the State was earning royalties from 106 oil and gas wells physically located on State lands and another 130 producing wells on adjacent or integrated lands. These wells are associated with 63 leases paying royalties.

The 236 wells produced 8.3 bcf of natural gas and 3,109 bbls of oil. The average prices paid were \$4.25 per mcf for gas and \$57.82 per barrel of oil.

In 2009 the State received total leasing revenues of \$790,486, down 64% from \$2.2 million in 2008. The drop was primarily due to the lack of new wells on or adjacent to State lands, and declining production from existing wells.

- **Delay Rentals** - Operators submitted a total of \$96,136 in delay rentals. This figure was

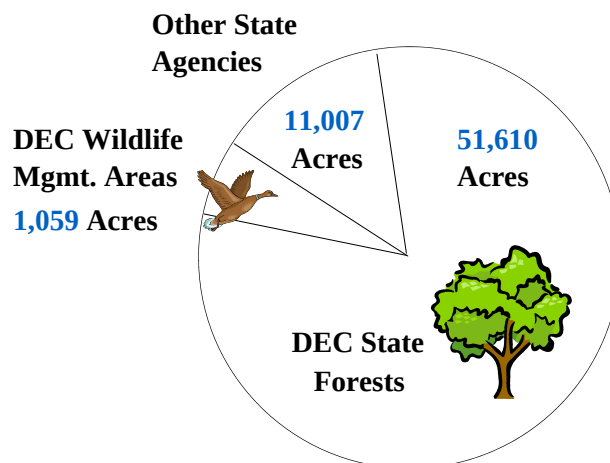
down 1.2% from the \$97,269 collected in 2008.

- **Royalties** - The State received \$637,254 in royalty revenue from oil and gas production on 63 leases in nine counties (32,527 acres), down 65% from \$1,866,519 in 2008.
- **Storage Leases** - Fourteen storage leases added \$50,960, down 76% from 2008. The majority of New York's storage lease acreage is in Cattaraugus County.
- **Bonus Bids** - A total of \$6,136 of bonus bid revenue was received from two non-competitive leases held by a single operator in Chemung County in 2009.

Table 7 - Total Leasing Revenues, 2004 - 2009

2004	\$765,782
2005	\$3,439,670
2006	\$3,296,932
2007	\$11,767,813
2008	\$2,175,715
2009	\$790,486

DEC Managed Oil and Gas Leases



For more information, see the 2009 Oil & Gas Leasing Report at <http://www.dec.ny.gov/energy/1579.html>

Plugging Permits and Bonds

2009 Plugged Wells and Bonds

At year-end DEC held \$25.5 million in financial security to guarantee well plugging and well site reclamation. This represented an increase of 3.4% from \$24.7 million in 2008.

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 2009 operators plugged 240 wells in accordance with requirements in DEC-issued plugging permits.

Much of the 2009 plugging activity was in the old oilfields of western New York. Almost 80% of the plugging jobs were oil wells, 10% gas wells, and the remaining 10% a mix of other regulated well types.

Plugging occurred in 14 counties with almost 60% of the plugging jobs in Allegany County and 20% in Cattaraugus County. As noted above, the vast majority of plugging jobs involved old oil wells, particularly in the Richburg and Bradford Fields.

Financial Security, 2009

\$25.5 Million

Table 8
Plugged Wells, 2009

Oil	191
Gas	25
Other	24
Total	240

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.

2009 Status Report

Abandoned, unreported and inactive wells continued to be a problem. In 2009 a total of 450 operators reported 3,043 wells with zero production. This is in addition to over 4,100 orphaned and inactive wells in the Department's records. Enforcement actions have reduced the number of unreported wells yet some operators refused to file their annual reports. The operators that remained out of compliance have been referred to the Office of General Counsel for additional enforcement actions.

DEC has at least partial records on 40,000 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 from before New York established a regulatory program. Many of these old wells were never properly plugged or were plugged using older techniques that were less reliable and long-lasting than 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 2009 the balance was \$208,806. DEC has over 500 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 2009 Division staff completed work on an Oil and Gas Account contract for a major plugging project involving abandoned oil wells. The \$190,000 contract to plug 45 wells on the Thornton-Bradley and Warfield leases in the Town of Alma, Allegany County was completed in late 2009.

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 2009 USEPA continued to focus on the Moore Lease in the Town of Bolivar,

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.

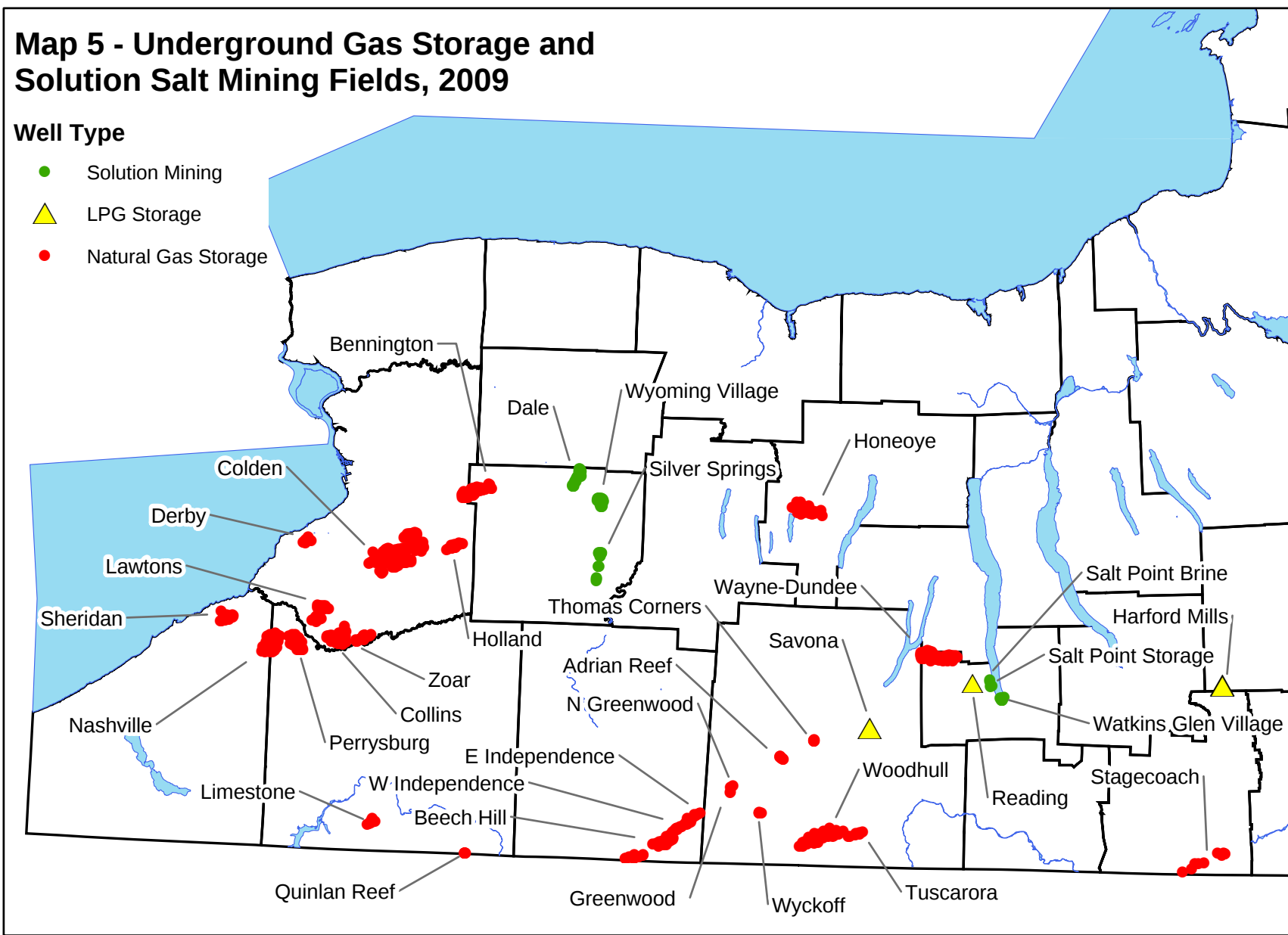
Allegany County and plugged the last of 145 Moore Producing wells on the Curtis farm lease. In conjunction with the well pluggings, the wellsites were reclaimed. The abandoned and leaking wells on this lease had been the subject of DEC enforcement actions for decades.

Additionally, in 2009 USEPA plugged four more wells on the Allegro Lease in the Town of West Union, Steuben County, and plugged one abandoned well on the former Wood Oil Company lease in the Town of Olean, Cattaraugus County. The USEPA plans to continue plugging work on this lease into 2010.

Map 5 - Underground Gas Storage and Solution Salt Mining Fields, 2009

Well Type

- Solution Mining
- ▲ LPG Storage
- Natural Gas Storage



Underground Gas Storage

In 2009 there were 26 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 2009 the combined total capacity of all the underground natural gas storage fields in New York State was 240.3 bcf and the maximum deliverability per day was 2.37 bcf. Working gas capacity was 122.7 bcf. Operators reported that these storage fields were 76% full at the end of the year, with 181.5 bcf in storage.

Nine different companies operate the 26 underground natural gas storage fields in New York State, with over half owned by National Fuel Gas Supply. Twenty-five 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 Formation. These formations range in depth from 1,500 to 5,000 feet below the earth's surface.

In 2009 Division staff reviewed an application and issued a modification permit 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 2010 after additional well drilling is completed.

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-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 2009 total LPG capacity of the three facilities was 156.65 million gallons, while product in storage was 58.36 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 2009 Inergy had paid \$275,000 into a dedicated account and fulfilled all other Order requirements.

Permit Applications

In 2009 Division staff were also engaged in reviewing four other permit applications submitted during previous years and an additional application received during the year for a total of six, including the Thomas Corners application. The additional applications included three from National Fuel Gas Supply Corp. (NFGSC), one from Inergy (originally submitted by BPSI) and one from Finger Lakes LPG Storage (Inergy).

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. FERC's jurisdiction is limited to interstate natural gas facilities.

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 produce 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 1.89 billion gallons of brine in 2009, a decrease of 2% from 2008. Three of the solution mining facilities are located in Wyoming County and the other two are in Schuylar County.

In 2009 solution mining operators submitted 6 drilling permit applications, compared to 12 applications in 2008. Six solution mining wells were plugged in 2009.

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 2009 the State had 91 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 2009 the Division did not receive any well

drilling applications for geothermal wells. Additionally, no geothermal well permits were issued.

Stratigraphic

The Division received 3 drilling permit applications for stratigraphic wells in 2009 and issued 4 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 2009. 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 carbon dioxide (CO₂) generation and release.

Regional Partnership

The diversity of 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 CCS 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 2009 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. Mineral Resources staff also met in 2009 with a potential applicant to discuss plans for the drilling of at least one stratigraphic test well in Rockland County. The proposed test well or wells will be drilled to gather data in support of CCS research sponsored by the U.S. Department of Energy.

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.

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 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 a critical factor.

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.

2009 New York Mined Land Reclamation Program At a Glance

Active Mines
2,122

Economic Impact
\$4.9 Billion

U.S. Quantity Rank

Wollastonite	1st
Garnet	1st
Peat	2nd
Salt	3rd
Talc, Zinc	4th

Affected & Reclaimed Land

Net Affected Acreage	47,934
Life-of-Mine Acreage	119,969
Reclaimed, 2009	1,665
Reclaimed Since 1975	30,102

Common Mine Types

Sand & Gravel	1,743
Limestone	87
Bluestone	81
Shale	47
Sandstone	26

Owner Type

Industry	1,678
Government	444
- Local Govt.	433
- State Govt.	11

Financial Security

For Reclamation
\$189,719,691

Annual Regulatory Fees
\$4,026,545

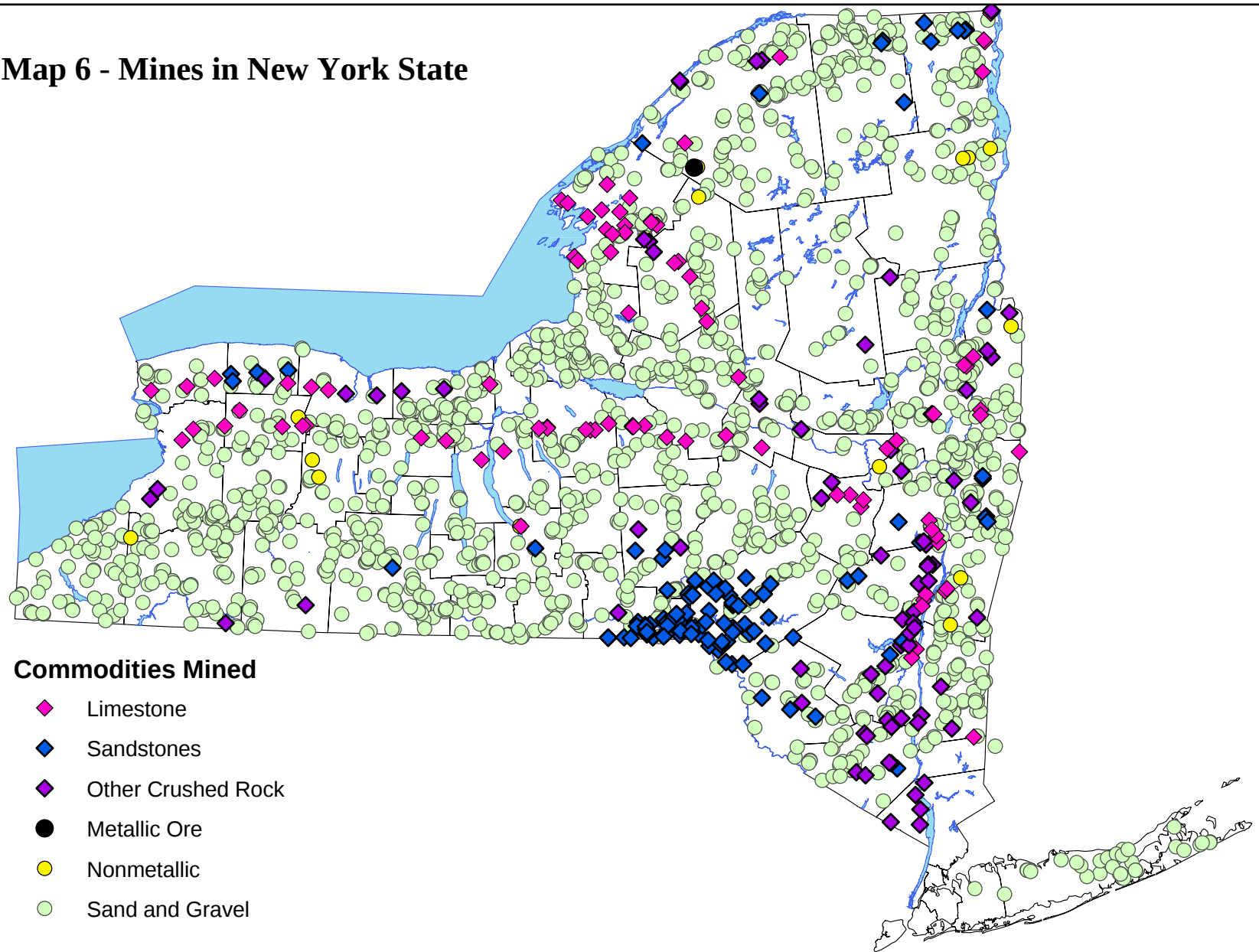
Regulated Vs. Unregulated Mines

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 2009 New York had 2,122 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 291 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 2009

Sand and gravel mines were the most common type of mine permitted in 2009 (see Table 9). The Division issued 34 permits for new mines and 504 renewals or modifications, for a total of 538 permits (see Table 10).

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, 2009	
Sand & Gravel	28
Bluestone	4
Limestone, Sandstone	1 each
Bluestone Exploration Authorization	0

Geographic Distribution of Mines

Map 5 on page 30 shows that mines can be found statewide; in 2009 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 2,133 net affected acres under mining permit in 2009, 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 2009 just 6 counties had more than 0.30% of their land surface under a mining permit (Albany, Genesee, Onondaga, Ontario, Rensselaer, Rockland) with a range of 0.34 to 0.41%. For most of the counties with active mines, less than 0.25% of their land was affected.

Table 10 - Permits, 2005 - 2009

	2005	2006	2007	2008	2009
New Permits	66	47	46	37	34
Renewals & Modifications	345	327	326	585	504*
Total Permits	411	374	372	622	538

*185 permit modifications issued in 2009.

← Due to the economic downturn, there were no new Exploration Authorizations issued in 2009.

Owner Type

In 2009 industry operated 1,678 mines or slightly over three-fourths of the mines in New York State.

In 2009 there were 47 county-owned mines and 386 belonging to towns, villages and other small local government entities. New York State agencies also operate 11 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 2009 the Division collected \$4,026,545 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.

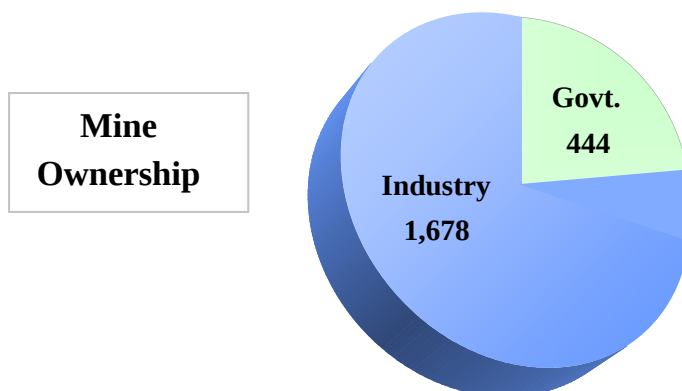


Table 11 - Counties with Highest Percentage of Land Under Mining Permit, 2009

County	Population Ctr. Nearby	Active Mines	Net Affected Acreage	Land Percent
Genesee	Buffalo	23	1,317	0.41%
Rensselaer	Capital/Tri-City	59	1,680	0.39%
Onondaga	Syracuse	40	1,990	0.39%
Ontario	Rochester	41	1,560	0.37%
Albany	Capital/Tri-City	18	1,206	0.35%
Rockland	New York City	4	433	0.34%
Dutchess	New York City	56	1,573	0.29%
Saratoga	Capital/Tri-City	62	1,584	0.29%

Table 12 - Number of Permits and Acreage by County, 2009

<u>County</u>	2009 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acres</u> ²	<u>Number</u>	<u>Acres</u> ²
Albany	0	0	18	1,204
Allegany	1	1	37	355
Broome	2	10	44	712
Cattaraugus	0	0	69	1,492
Cayuga	2	4	21	350
Chautauqua	0	0	54	411
Chemung	2	39	26	426
Chenango	0	0	38	706
Clinton	3	22	66	1,184
Columbia	0	0	36	944
Cortland	1	9	18	344
Delaware	2	12	71	797
Dutchess	0	0	56	1,573
Erie	0	0	53	1,353

1 Regulated mines, does not include inactive mines or bluestone exploration authorizations

2 Net affected acreage

<u>County</u>	2009 New Permits ¹		Total Permits ¹	
	<u>Number</u>	<u>Acres</u> ²	<u>Number</u>	<u>Acres</u> ²
Essex	1	1	40	726
Franklin	0	0	73	658
Fulton	1	4	25	387
Genesee	1	2	23	1,317
Greene	0	0	23	978
Hamilton	1	5	20	137
Herkimer	1	3	50	1,278
Jefferson	3	26	76	1,853
Lewis	1	8	46	705
Livingston	0	0	23	949 ³
Madison	0	0	25	531
Monroe	1	24	12	606
Montgomery	0	0	8	564
Nassau	0	0	1	4

3 Livingston County total does not include underground acreage for salt mines (603 acres).

Table 12 - Number of Permits and Acreage by County, 2009 (continued)

<u>County</u>	2009 New Permits¹		Total Permits¹	
	<u>Number</u>	<u>Acre²</u>	<u>Number</u>	<u>Acre²</u>
Niagara	0	0	16	699
Oneida	0	0	64	1,133
Onondaga	0	0	41	1,991
Ontario	1	2	39	1,438
Orange	2	9	42	677
Orleans	0	0	20	548
Oswego	0	0	100	1,601
Otsego	0	0	34	504
Putnam	0	0	2	58
Rensselaer	2	13	59	1680
Rockland	0	0	4	433
Saratoga	0	0	62	1,584
Schenectady	1	4	10	222
Schoharie	0	0	17	525
Schuyler	0	0	12	274

1 Regulated mines, does not include inactive mines or
bluestone exploration authorizations

<u>County</u>	2009 New Permits¹		Total Permits¹	
	<u>Number</u>	<u>Acre²</u>	<u>Number</u>	<u>Acre²</u>
Seneca	0	0	5	322 ³
St. Lawrence	1	5	101	2,128
Steuben	1	6	84	1,874
Suffolk	0	0	35	1,122
Sullivan	0	0	31	1,025
Tioga	0	0	30	777
Tompkins	0	0	15	513 ³
Ulster	0	0	48	777
Warren	1	2	37	597
Washington	1	3	57	837
Wayne	0	0	42	945
Westchester	0	0	1	4
Wyoming	1	11	26	202
Yates	0	0	13	161

2 Net affected acreage

3 Tompkins and Seneca County totals do not include
underground acreage for salt mines (9,000 acres)

Trends in Mine Size and Number

Mine renewal and modification permits issued in 2009 ranged in life of mine acreage from 1 to 1,222 acres. However, new mines tend to be smaller; 75 percent of new mines permitted in 2009 were 10 acres or less in life of mine acreage. The largest new mine was the 78-acre Barrett Paving Materials Inc. Millick Limestone Quarry in Lewis County.

Table 13 gives 2004-2009 size range information, based on net affected acreage, 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. This trend may begin to change in the future, due to the fact that in 2009, the required regulatory fees were increased for sites with greater than 20 acres affected by mining.

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 2009 the total affected land authorized for mineral extraction under current mined land reclamation permits was 47,934 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 2009 the statewide total for life-of-mine area was 119,969 acres.

Reclaimed Acres - In 2009 the Division approved final reclamation of 453 acres at 68 closed mines and concurrent reclamation of 1,212 acres at 177 operating mines. Table 14 on page 38 summarizes 2009 reclamation by county. Since 1975 a total of 30,102 acres of mined land have been reclaimed, including 1,665 acres reclaimed in 2009.

Table 13 - Range of Existing Mine Sizes, 2004 - 2009*

	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>
Minor Projects	78	81	80	88	69	61
0 to 5 Acres	712	683	652	651	636	631
>5 to 10 Acres	532	531	531	509	493	476
>10 to 20 Acres	442	439	439	431	437	442
>20 to 30 Acres	179	179	169	166	171	156
>30 Acres	329	336	344	358	360	356
Total Mines	2,272	2,249	2,215	2,203	2,166	2,122

* 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 2009 the Division held roughly \$189.7 million in financial security, an increase of \$22 million from 2008.

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 2005 the Division studied the issue and adopted a more detailed system of assessing reclamation costs. Since 2006

the Division has used a new methodology to calculate the required bonds for all new permits, permit renewals, modifications and transfers. Calculations are based on the R.S. Means Site Work & Cost Data. Since the inception of this initiative, the total financial security held on file with the Department has increased by over 75%. Reclamation estimates completed in 2009 averaged \$4,819 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.

2009 Reclamation Highlights

Frozen Ropes Baseball Company

The company Frozen Ropes Baseball Company purchased a permitted mine site in the Town of Chester, Orange County for the express purpose of reclaiming the land and building a sports training center.



Frozen Ropes site during a December 2009 inspection.



The same site during active mining operations in 2003.

R.T. Vanderbilt Company

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 continued to conduct inspections throughout 2009 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. The August 2009 inspection of the No. 2 Talc Mine in the Town of Fowler showed that 50% of the reclamation was completed in the open pit area and surrounding area.

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.



R.T. Vanderbilt Talc Mine No. 2 in the Town of Fowler, St. Lawrence County. Photo of area which has been successfully revegetated .

Thalle Industries

Thalle Industries continues to conduct concurrent reclamation at the company's granite mine in the Town of Fishkill, Dutchess County. With the help of the company's arborist, Thalle is undertaking a state of the art reclamation project on the 600-foot level near the top of the mine. Reclamation of the bench began in 2007 when the company put considerable effort into excavating a trench and filling it with three to four feet of topsoil.

In November 2009 DEC Region 3 Mined Land and Forestry staff met on-site to review the reclamation. The initial tree planting efforts and possible adjustments to the mix of tree species were discussed. The original reclamation plan called for red oak, black birch, pitch pine, and black locust to be planted. Black locust is now considered an invasive species. The Region 3 Forester is working with Thalle's arborist to devise a species mix which eliminates black locust. In addition, the forester recommended a naturally occurring fungus which would promote better reforestation of the benches.



In a little over a year the black locusts (right side of photo) grew from seedlings to over six feet in height. This tree has long been favored for use in reclamation due to its ability to fix nitrogen in soil. However, further use of black locust will be eliminated due to its status as an invasive species.

Table 14 - Reclamation Acreage Summary by County¹, 2009

County	Concurrent	Final	Total	County	Concurrent	Final	Total
Albany	26	0	26	Oneida	7.5	3.5	11
Allegany	56.1	15	71.1	Onondaga	34.2	22	56.2
Broome	9.3	1	10.3	Ontario	30.7	2.5	33.2
Cattaraugus	31.4	8	39.4	Orange	75.6	28	103.6
Cayuga	7.3	17.2	24.5	Orleans	16.7	4	20.7
Chautauqua	29.5	1	30.5	Oswego	30.1	48.4	78.5
Chemung	0	0	0	Otsego	24.4	5.6	30
Chenango	25	0	25	Putnam	0	10	10
Clinton	37.2	51.2	88.4	Rensselaer	15.8	11.5	27.3
Columbia	37.8	6	43.8	Rockland	0	0	0
Cortland	6	0	6	Saratoga	10.4	0	10.4
Delaware	18.7	14.2	32.9	Schenectady	15.3	0	15.3
Dutchess	71.4	6.5	77.9	Schoharie	0	0	0
Erie	191.3	0	191.3	Schuyler	0	0	0
Essex	2.5	8	10.5	Seneca	10.8	0	10.8
Franklin	22	30	52	St. Lawrence	12.7	13.2	25.9
Fulton	3.5	0	3.5	Steuben	63.1	0	63.1
Genesee	12.5	0	12.5	Suffolk	0	15	15
Greene	6.7	0	6.7	Sullivan	24.3	0	24.3
Hamilton	2	5	7	Tioga	8.8	88	96.8
Herkimer	4.4	0	4.4	Tompkins	7	0	7
Jefferson	18.3	24.3	42.6	Ulster	47.7	0	47.7
Lewis	0	0	0	Warren	5.5	0	5.5
Livingston	115.3	0	115.3	Washington	1.3	0	1.3
Madison	8	6	14	Wayne	28	0	28
Monroe	0	0	0	Westchester	0	0	0
Montgomery	0	0	0	Wyoming	0	8	8
Nassau	0	0	0	Yates	0	0	0
Niagara	0	0	0	Statewide	1,212.1	453.1	1,665.2

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

Compliance and Enforcement

Inspections

In 2009 Mined Land staff performed 2,475 mine inspections and traveled 138,161 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 2009 the Mined Land Program collected \$200,000 in fines and penalties for 42 cases. An additional \$129,960 was collected as part of Environmental Benefit Projects.

Significant Legal Cases

In November Region 1 Mined Land staff investigated a site in Suffolk County used as a commercial motocross facility. Upon inspection, staff discovered that 10,000 cubic yards of material had been excavated. Region 1 staff also investigated a proposed fish farm project in Port Jefferson, Suffolk County. DEC and the Town of Brookhaven closely examined the project due to serious concern that the project may be an attempt to circumvent the need for a mining permit. One of the principals had been cited for illegal mining several times in the past. The use of semi-legitimate projects to conduct mining in disguise has been reported in other regions as well. However, there is a strong incentive to do so on Long Island where the DEC determines that an application is incomplete and stops processing mining permit applications when notified by a town that mining is prohibited at a particular location. This happens often on Long Island and has resulted in a marked decrease in the number of new permits issued in Region 1 in recent years.

In 2009 Region 3 staff completed a settlement with an operator over violations at mines in Dutchess and Rockland counties. The issues centered around broken slurry lines which released sediment-laden water into the Hudson River and several violations associated with relocation of the settling ponds and primary crusher. In addition, numerous SPDES violations resulted in turbidity in the Hackensack River and disruption of the Village of Nyack water supply. The settlement included a payable fine of \$150,000, with an additional \$100,000 suspended penalty, and an Environmental Benefit Project which will provide \$100,000 to the Sloop Clearwater for the Clearwater Center for Environmental Leadership.

In September, the New York State Supreme Court, Chenango County, issued a default judgment in favor of the State imposing a \$400,000 fine against a bluestone operator for mining without a permit at a site located in the Town of Afton, Chenango County. In addition to the penalty, the operator was ordered to obtain a mining permit or reclaim the site in its entirety, post adequate reclamation financial security, and pay the remainder of the \$8,000 penalty contained from a previously executed Consent Order. The \$400,000 fine is the largest civil penalty ever awarded to the Department for mining bluestone without a permit.

Region 5 Mined Land Staff inspected the Lehigh Cement-Glens Fall quarry in the Town of Moreau, Saratoga County for follow-up on the environmental remediation project initiated after the overburden collapse of September 2006. Approximately 33,000 cubic yards of material covering 2.2 acres slumped into the Hudson River. Under an administrative settlement the permittee paid a \$150,000 fine and agreed to remediate the overburden area. Subsequently the permit was modified and the overburden is now stored in a different location and is also used to provide a visual and sound barrier around the perimeter of the site. The June 2009 inspection found that the overburden collapse area had satisfactorily revegetated. The overburden material in the Hudson river was previously removed.

2009 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.

In June 2009, the final report with complete survey results, and which extrapolated the data to include all permitted mines in the State, including indirect and multiplier effects, indicated that the total economic impact of mining in New York was approximately \$4.9 billion. The latest U.S. Geological Survey estimate of the value of minerals produced in New York is \$1.3 billion.

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. 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 no signs of global (widespread) instability or other indications of stress or instability were noted.

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 and Region 6 staff returned to participate in the second 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 15. Rock Fest is sponsored by VIC, the Adirondack Museum, 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 ilmenite mine at Tahawus, and the nearby historic iron production area and blast furnace sites. 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.



New York State Geologist Bill Kelly discusses folding and differential weathering in a marble outcrop near Rich Lake at Rock Fest

Interest in Granite Mining Grows

The number of permitted granite mines in the state has more than doubled in recent years, rising from 11 in 2003 to 25 in 2009. Much of the growth is due to new mines, but was also due to a significant trend of existing sand and gravel operators in the Adirondacks and Dutchess County modifying their permits to mine deeper and excavate bedrock.

In 2009, three applications to mine granite were received in Region 5. At an existing sand and gravel mine located in Fulton County, the permittee proposed modifying the permit and mining the underlying granitic gneiss. A new application to mine granite in the Town of Fort Ann, Washington County was received in August. Also in Washington County, an operator proposed combining two smaller granite quarries (total life of mine area of 29 acres), and increasing the life of mine for the combined operation to approximately 500 acres.

Green Power Projects at Mine Sites

Region 3 staff met with a consortium of area businessmen to discuss the feasibility and permitting requirements for constructing a 300 kW photovoltaic ground array at a permitted shale mine located in the Town of Crawford, Orange County. The array would occupy 2 acres of land and would be used to power the crushing and conveying systems and would replace a diesel generator and two electrically metered locations. If any excess power exists after fulfilling the quarry's needs, it could be sold to the regional power grid. In addition to providing long-term savings to the mine operator, this type of project has the potential to reduce greenhouse gases associated with crushed stone production.

A similar project is proposed for a 44-acre site in the Town of Smithtown, Suffolk County. The parcel includes 14 acres which have been affected by mining and another 30 adjacent acres which are not. The first section of panels to be installed will be on the land which has not been mined. When completed, the power from the project will be sold to Keyspan.

Town Sees Value In Mining & Reclamation

Region 3 Mined Land staff held a pre-application meeting at the proposed Osterhoudt mine located off of NYS Route 209 in the Village of Ellenville, Ulster County. Mined Land Reclamation and Division of Environmental Permits staff attended the meeting, as well as the applicant, his consultant, and a Village Planning Board member. The village has rezoned the property to allow mining.

The local government recognizes that previous mining and industrial activity have left the site in an undevelopable condition due to steep slopes. There is a limited amount of residential housing in the village, so the site's ultimate reclamation to a residential use is viewed positively. Even though the mine would be located within the village boundaries, it will be very well-screened and impacts to the surrounding community during operation are expected to be minimal. The proposed mine site would be approximately 35 to 45 acres in size and the proposed cuts would be roughly 30 to 60 feet.

Agreement to Reclaim Mine in Conservation Easement Area

Central Office and Region 5 Mined Land staff conferred with representatives from two lumber companies regarding the Lost Pond Site Mine in the Town of Belmont, Franklin County. Domtar Industries had a permit for the site that expired in 2004, but the company did not reclaim the land because it expected the new owner, Lyme Timber, would renew the permit and continue mining. However, Lyme Timber, The Nature Conservancy, and the State of New York subsequently entered into an agreement for a conservation easement on 104,000 acres of forest land in Franklin and Essex Counties. Under the terms of the easement, commercial mineral extraction is prohibited anywhere on the property. As a result of the conference call, all parties agreed to reclaim the small sand and gravel pit before the end of 2009 and resolve outstanding regulatory fees quickly.

Region 9 Staff's Innovative Recommendations for Reclaiming Mine

Region 9 Mined Land and Forestry staff gave species and density recommendations to Lafarge for reclaiming five acres at the Freedom Pit in Cattaraugus County. The area includes wooded wetlands and a former mine settling basin that has been filled in. DEC staff recommended a mixture of roughly 900 trees and 500 shrubs, comprising fifteen species. After obtaining the planting stock from the Saratoga Nursery, Lafarge will coordinate reclamation efforts with local scout, school and church groups to give children a hands-on environmental education activity.

In addition, Lafarge will excavate several small areas around the perimeter of the old settling basin to create experimental vernal pools. Like wetlands, naturally occurring vernal pools have long been threatened by development because they are easy to fill in. Vernal pools are typically ice-covered in winter and wet in spring, but may dry up in the summer. These seasonal pools of water are devoid of fish, and thus, provide a safe environment for frogs, toads, salamanders and other species faced with dwindling habitat. If Lafarge's experiment is successful, it could provide an easy method of significantly enhancing settling basin reclamation at other mines.



Graded portion of the E. Tetz & Sons-Echo Lake Mine (Town of Goshen, Orange County) during concurrent reclamation operations.

Permit Review Reveals Graveyard and Unique Natural Area

Region 7 staff discovered a small, late 19th century, burial plot while reviewing a permit modification for the University Sand and Gravel-Brooktondale Mine located in the Town of Caroline, Tompkins County.

Staff also determined that a Unique Natural Area, commonly known as "Middaugh Woods," exists immediately adjacent to the proposed expansion. These woods include an old growth forest and a section of the "Warrior's Trail." This is the trail taken in 1789 by Ithaca's first permanent white settlers. After an on-site meeting between the applicant and DEC Permits and Mined Land staff, an agreement was reached to change the life-of-mine limits to exclude the cemetery and to forego the expansion in the direction of Middaugh Woods.

Concurrent Reclamation in Region 3

Upon the transfer of a mining permit to their name, E. Tetz & Sons agreed to concurrently reclaim a portion of the Echo Lake Mine and adjacent affected areas at the site located in the Town of Goshen, Orange County. The Department encourages concurrent reclamation where practicable at all mine sites.



Portion of the Echo Lake Mine after vegetation has been established.

2009 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 2007 or 2008.

New York Production Rank for Important Minerals

USGS data for 2008 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 2008 USGS reported that by production volume New York was:

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

In 2008 New York was also ninth in dimension stone. Other important New York minerals include bluestone, sandstone, granite, clay, 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. Preliminary data from a 2008-2009 study on the economic impacts of mining in New York State conducted by the Center for Governmental Research and the New York State Geological Survey indicated the total annual economic impact to be **\$4.9 billion**.



Sand and gravel mines are New York's most common type of mine with 1,743 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.

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. For 2008 USGS reported that New York produced 33.1 million metric tons worth \$251 million.

Table 1 - Sand and Gravel Mines Over 125 Permitted Acres, 2009

<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
Dolomite Products Co., Inc.	Wayne	Walworth	162
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	146
JML Quarries, Inc.	Sullivan	Mamakating	136

* Site also mines Granite

Table 1 - Sand and Gravel Mines Over 125 Permitted Acres, 2009 (Continued)			
<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Graymont Materials NY, Inc.	Clinton	Schuyler Falls	135
Hanson Aggregates NY, Inc.	Steuben	Bath	134
Material Sand & Gravel **	Herkimer	Russia	134

** Site also mines limestone

Table 2 - Largest Sand and Gravel Mine Operators, Total Permitted Acres, 2009		
<u>Company</u>	<u>Counties</u>	<u>Acres</u>
Hanson Aggregates NY, Inc.	Cattaraugus, Chemung, Genesee, Herkimer, Livingston, Montgomery, Oneida, Ontario, Oswego, Steuben, Schuyler, Wayne	1,421
Graymont Materials NY, Inc.	Clinton, Essex, Franklin, St. Lawrence	477
Buffalo Crushed Stone, Inc.	Allegany, Cattaraugus, Genesee	475
Lafarge North America, Inc.	Cattaraugus, Erie, Wyoming	465
Dalrymple Gravel & Constructing	Chemung, Steuben	456
FS Lopke Contracting, Inc.	Broome, Tioga	444
Callanan Industries, Inc.	Albany, Rensselaer	421
Gernatt Asphalt Products, Inc.	Erie, Cattaraugus, Chautauqua	396
Cranesville Aggregate Co., Inc.	Columbia, Fulton, Jefferson, Saratoga, Schenectady	369
Elam Sand & Gravel Corp.	Livingston, Ontario, Steuben	327

New York Limestone & Dolostone

Limestone and dolostone make up the second biggest category of New York mines with 109 quarries located across the State. These mines produce roughly 90% of the stone sold in New York State. They collectively encompass 12,510 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 2008 show New York production of crushed stone was 43.9 million metric tons and the stone's value was \$392 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, 2009

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Hanson Aggregates NY, LLC	Onondaga	Dewitt	839
Lafarge Building Materials Inc.	Albany	Coeymans	745
Tilcon, NY, Inc.	Dutchess	Poughkeepsie	458
Holcim US, Inc.	Greene	Catskill	318
Hanson Aggregates NY, LLC	Livingston	Lima	289
Callanan Industries Inc.	Monroe	Sweden	288
Seneca Stone Corp.	Seneca	Fayette	282
Holcim US, Inc.	Columbia	Greenport	281
Hanson Aggregates NY, LLC	Onondaga	Skaneateles	278

Table 3 (Continued) - Limestone & Dolostone Mines Over 250 Permitted Acres, 2009

<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, LLC	Jefferson	Pamelia	263
Hanson Aggregates NY, LLC	Oneida	Marshall	258
Lehigh Northeast Cement Co.	Saratoga	Moreau	255

Table 4 - Largest Limestone & Dolostone Operators, Total Permitted Acres, 2009

<u>Company</u>	<u>Counties</u>	<u>Acres</u>
Hanson Aggregates NY, LLC	Cayuga, Genesee, Herkimer, Jefferson, Livingston, Montgomery, Oneida, Onondaga, Ontario, Orleans, St. Lawrence, Wayne	3,368
Callanan Industries, Inc.	Albany, Madison, Monroe, Montgomery, Ulster	1,146
Lafarge Building Materials, Inc.	Albany	745
Tilcon NY, Inc.	Dutchess, Rockland, Ulster	711
Barrett Paving Materials, Inc.	Herkimer, Jefferson, Lewis, St. Lawrence	660
Buffalo Crushed Stone, Inc.	Erie, Genesee	613
Holcim US Inc.	Columbia, Greene	599
Redland Quarries NY, Inc.	Niagara	541
Lehigh Northeast Cement Co.	Greene, Saratoga	522
Dolomite Products Co., Inc.	Genesee, Monroe, Ontario	456
Cobleskill Stone Products, Inc.	Schoharie	305
Seneca Stone Corp.	Seneca	282

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 down from levels reported in 2007. Production of wollastonite dropped to around 100,000 metric tons in 2008. According to the latest available USGS data, wollastonite was New York's sixth most valuable non-fuel mineral in 2008.

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
2008**

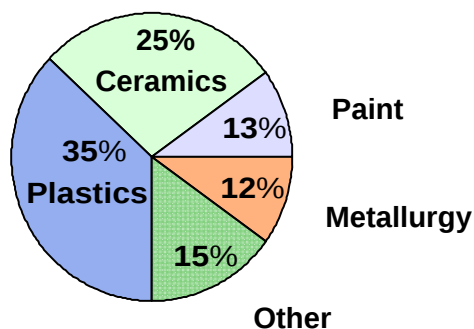


Table 5 - New York Wollastonite Mines, Permitted Acres, 2009

<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
R T Vanderbilt Company Inc, Gouverneur Min. Div./ No 4 Mine	Lewis	Diana	36
NYCO/ Willsboro Mine	Essex	Willsboro	9

New York Garnet

USGS statistics for 2008 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, 2009

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Barton Mines Co., LLC	Warren	Johnsburg	134

Barton currently extracts garnet from its Ruby Mountain mine in Warren County. Garnets from this site make especially high-quality abrasives. 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.

Most New York garnet is used for sandpaper. USGS reported that 2008 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 is a well-known gemstone, but most New York garnets have too many imperfections to be used in jewelry.



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 2008 New York produced 16% of the country's salt supply.

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 2008 the U.S. Geological Survey estimated New York's combined salt output from both underground mines and solution salt mining wells at roughly 7.7 million metric tons worth \$431 million. Subtracting New York's reported solution mined salt production for 2008 leaves estimated rock salt production at 5.65 million metric tons. Production levels of rock salt typically reflect a weather-related demand for salt across New England and the northern Midwest. The value of New York's rock salt in 2008 was roughly \$431 million.



Road salt is crucial to winter travel.

Table 7 - New York Underground Salt Mines, Permitted Acres, 2009

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

* Note these include underground acres

New York Peat

In 2008 New York rose to second 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 permitted 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, 2009

<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 domestic 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 2009 there were 64 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 other 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 2009 there were 17 EAs in effect with 10 sites in Broome County, 5 in Delaware County, and 2 in Chenango County.

The operators with the largest mines under permit are shown in Table 10. In 2009 the companies with the highest number of mines were Johnston & Rhodes Bluestone (15), Tompkins Bluestone (4), Star Stone Quarries (2), Devonian Stone of NY (2), Fannie E. Kamp (2), and Damtown Stone and Drilling, Inc. (2). In the early portion of the last decade, higher prices for bluestone 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. But due to the recent economic downturn, several bluestone operators have sold out or struggle to remain in business.



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

Table 9 - Bluestone Mines Over 15 Permitted Acres, 2009

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
Ashland Sand & Gravel	Greene	Ashland	40
Heldeberg Bluestone & Marble	Albany	Sanford	30
Herbert Kilmer	Broome	Berne	24
Damascus 535 Quarry & Stone	Broome	Windsor	24
Eastern Materials, LLC	Ulster	Kingston	22
David Barnes	Delaware	Masonville	19
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

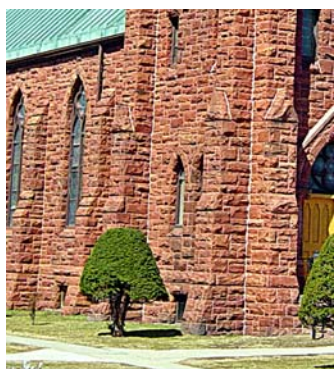
New York Sandstone

In 2009 there were 27 mines in New York producing sandstone which is found widely across the State. According to the latest USGS statistics available (2008), 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 2008 New York State produced 53,300 metric tons of sandstone dimension stone valued at \$13,700,000. 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 720 permitted acres).

Table 10 - Sandstone Mines Over 60 Permitted Acres, 2009

<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, LLC	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 (2008) 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. RT Vanderbilt Co. Inc./Gouverneur Talc Division 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 mining and started reclamation of the mine. These reclamation activities continued at the site throughout 2009. Due to the closure of the excavation areas, production come solely from remaining on-site stockpiles.

Table 11 - New York Talc Mines, Permitted Acres, 2009

<u>Company</u>	<u>County</u>	<u>Town</u>	<u>Acres</u>
RT Vanderbilt Co. Inc./ Gouverneur Talc Division 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 and remained closed throughout 2009, but the company hopes to reopen it when the price of zinc rises again.

Table 12 - New York Zinc Mines, Permitted Acres, 2009

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

New York Granite

In 2009 there were 23 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, 2009

<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, LLC	Oneida	Forestport	100
Graymont Materials NY, Inc.	Franklin	Brandon	77
Peckham Materials Corp.	Saratoga	Greenfield	76
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 2009

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
(2000 - 2009)

Annual Production	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Oil (1,000 bbl)	181	183	179	157	184	211	319	387	397	324
Gas (mmcf)	17,808	28,020	37,133	36,025	46,948	55,156	55,342	54,916	50,320	44,850
Well Statistics										
Oil	2,962	3,373	3,106	3,117	3,153	2,767	3,190	3,559	3,617	3,401
Gas	5,775	5,949	5,773	5,906	6,076	5,957	6,213	6,683	6,675	6,628
Inactive Oil	1,340	1,416	1,343	1,547	1,640	1,401	1,373	1,264	1,527	1,437
Inactive Gas	850	843	929	832	886	781	839	640	912	1,122
Storage	870	877	905	908	908	932	936	945	952	963
Active Brine	93	94	96	106	113	96	98	123	131	108
Inactive Brine	61	52	51	38	17	40	35	9	11	37
Water Injection	667	568	434	683	656	460	517	498	467	446
P&A (During Year)	131	79	146	142	145	150	213	192	221	242
Number of Wells	12,749	13,251	12,783	13,279	13,594	12,584	13,414	13,913	14,513	14,384
Drilling & Completions										
1. Total Wells Spudded	128	139	109	137	181	314	540	517	562	296
2. Total Wildcats	22	15	40	35	53	31	41	53	69	64
3. Discoveries	129	123	60	60	126	199	369	450	413	246
Oil Wildcat	0	0	0	1	0	0	0	0	3	0
Gas Wildcat	9	4	10	10	14	17	17	35	45	64
4. Total Dry Holes	16	24	32	25	28	18	7	25	21	12
5. Oil										
Development	17	25	17	28	56	93	174	179	163	191
Extension	0	0	0	0	0	2	2	0	0	0
6. Gas										
Development	98	80	28	19	40	82	165	224	186	86
Extension	5	14	5	3	16	5	11	12	16	4
7. Injection	0	0	0	0	0	2	2	19	4	0
8. Disposal	0	0	0	0	0	0	0	0	0	0
9. Stratigraphic	1	1	1	15	9	0	24	0	7	3
10. Service	0	0	0	0	0	0	0	1	0	0
11. Brine	13	15	10	11	15	14	19	14	14	4
12. Storage	0	5	15	3	1	4	16	3	5	19
13. Geothermal	0	6	1	6	6	14	11	14	25	0
13a. Suspended wells ²					3	10	5	8	4	32
14. Total Completions	159	174	119	121	188	261	453	534	493	415
(3,4,5,6,7,8,9,10,11,12, 13, 13a)										
Footage (1,000s) Vertical Wells ³	534	608	266	248	394	673	1,116	1,198	1,173	403
Deviated Wells ³	88	99	93	91	272	238	327	247	193	109
15. Total Footage Drilled	622	707	359	339	666	911	1,443	1,444	1,366	512
Proven Reserves at Year End										
Gas (mmcf)										
A. In Situ	96,273	174,014	307,214	163,559	208,707	190,300	212,766	260,456	303,606	335,794
B. In Storage Reservoirs ³	147,313	164,313	162,099	176,936	161,723	169,439	183,316	180,986	176,060	181,546
C. Total	243,586	338,327	469,313	340,495	370,430	359,739	396,082	441,442	479,666	517,340
Oil (1000 bbls)										
	783	1,189	1,069	1,066	1,056	1,205	1,910	2,550	2,960	3,474

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 Volumes revised for 2004, 2005, and 2007

Division of Mineral Resources Oil and Gas Statistics, 2000 - 2009

Oil and Gas Production by Town in Each County, 2009

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	1	0	0	0	0
Allen	953	0	5	1	0	0	0	0	0
Alma	6,697	4,989	1,166	25	0	179	29	0	25
Almond	892	0	0	1	0	0	0	0	0
Amity	2,494	358	414	2	2	15	2	0	0
Andover	52,965	17,487	13,527	1	15	159	28	0	0
Angelica	266		0	1	0	0	0	0	0
Bolivar	508	4,608	5,449	1	7	242	349	16	84
Centerville	0	0	0	0	1	0	0	0	0
Clarksville	352	689	272	0	0	21	42	0	25
Cuba	0	0	0	0	0	0	0	0	0
Friendship	0	0	0	0	0	0	1	0	0
Genesee	677	1,843	321	4	5	52	115	3	69
Granger	266		0	1	0	0	0	0	0
Independence	137,014	12,387	2,443	1	5	305	13	12	0
New Hudson	0	0	0	0	1	0	0	0	0
Rushford	0	0	0	0	2	0	0	0	0
Scio	264	283	5,390	2	4	77	154	0	56
Ward	210	209	0	3	0	5	19	6	2
Wellsville	2,417	2,849	8,480	0	0	72	54	0	18
West Almond	3,000	700	100	0	0	1	0	0	0
Willing	0	269	11	0	2	11	41	0	0
Wirt	26,859	750	598	1	2	103	70	0	0
County Total	235,834	47,421	38,176	44	47	1,242	917	37	279
Broome County									
Fenton	0	0	0	0	0	0	0	0	0
Kirkwood	0	0	0	0	1	0	0	0	0
Triangle	0	0	0	0	1	0	0	0	0
Vestal	0	0	0	0	0	0	0	0	0
County Total	0	0	0	0	2	0	0	0	0
Cattaraugus County									
Allegany	255,057	108,991	273,794	6	1	798	228	65	18
Ashford	10,416	849	0	11	8	2	0	0	0
Carrollton	89,633	68,702	35,195	3	1	515	96	9	11
Cold Spring	0	0	0	0	5	0	0	0	0
Conewango	154,745	0	0	76	4	0	0	0	0
Dayton	113,159	516	952	59	9	1	0	0	0
East Otto	96,897	0	2,642	15	0	0	0	0	0
Ellicottville	737	0	0	3	9	0	0	0	0
Farmersville	214	40	120	2	0	4	0	0	0
Freedom	3,845	157	0	4	7	1	0	0	0
Great Valley	0	0	0	0	1	0	0	0	0
Hinsdale	0	20	4	0	0	4	0	0	0
Leon	249,247	0	9,111	88	6	0	0	0	0
Little Valley	0	0	0	0	2	0	0	0	0
Machias	100	0	0	1	1	0	0	0	0
Mansfield	0	0	0	0	1	0	0	0	0
Napoli	1,187	0	0	2	1	0	0	0	0
New Albion	7,220	0	0	9	8	0	0	0	0

Oil and Gas Production by Town in Each County, 2009

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	7,163	21,744	4,499	5	0	166	67	0	5
Olean City	0	0	0	0	0	0	1	0	0
Otto	69,647	86	11	70	0	1	0	0	0
Perrysburg	343,006	0	9,203	42	14	0	0	0	0
Persia	99,100	0	8	43	61	0	0	0	0
Portville	0	24	0	0	1	5	0	0	0
Randolph	72,434	559	0	72	13	1	0	0	0
South Valley	892	0	0	2	0	0	0	0	0
Yorkshire	40,544	0	2	17	7	0	0	0	0
County Total	1,615,243	201,688	335,541	530	160	1,498	392	74	34
Cayuga County									
Aurelius	456,204	0	3,060	136	10	0	0	0	0
Cato	0	0	0	0	1	0	0	0	0
Conquest	0	0	0	0	0	0	0	0	0
Fleming	85,237	0	1,764	31	5	0	0	0	0
Ledyard	1	0	0	1	6	0	0	0	0
Owasco	0	0	0	0	3	0	0	0	0
Scipio	0	0	0	0	1	0	0	0	0
Sennett	2,350	0	0	2	3	0	0	0	0
Springport	519,306	0	5,961	111	9	0	0	0	0
Throop	5,748	0	0	9	0	0	0	0	0
Venice	0	0	0	0	0	0	0	0	0
County Total	1,068,846	0	10,785	290	38	0	0	0	0
Chautauqua County									
Arkwright	106,655	0	3,364	122	6	0	0	0	0
Busti	321,152	27,246	1,544	121	26	399	93	0	0
Carroll	181,427	0	601	70	7	0	3	0	0
Charlotte	230,836	159	6,044	127	11	2	0	0	0
Chautauqua	469,915	0	1,252	314	10	0	0	0	0
Cherry Creek	179,037	0	1,472	123	7	0	0	0	0
Clymer	159,828	1,143	1,820	101	27	5	1	0	0
Dunkirk	69,003	0	224	36	6	0	0	0	0
Dunkirk City	10,169	0	164	6	1	0	0	0	0
Ellery	180,187	508	768	82	8	12	4	0	0
Ellicott	204,129	8	1,301	66	8	0	1	0	0
Ellington	264,581	0	530	180	1	0	0	0	0
French Creek	26,003	0	148	40	21	0	0	0	0
Gerry	437,202	6,840	8,515	152	21	18	2	0	0
Hanover	450,439	0	21,163	152	12	0	0	0	0
Harmony	231,897	0	7,830	116	14	0	0	0	0
Jamestown	4,183	0	0	3	1	0	0	0	0
Kiantone	425,027	0	794	84	2	0	0	0	0
Mina	53,986	0	932	71	6	0	0	0	0
North Harmony	352,930	4,141	28,188	159	8	16	2	0	0
Poland	554,983	142	525	159	3	2	0	0	0
Pomfret	189,905	0	1,500	174	18	0	0	0	0
Portland	235,705	0	0	149	5	0	0	0	0
Ripley	185,487	0	797	182	5	0	0	0	0
Sheridan	142,294	0	6,324	86	23	0	0	0	0
Sherman	106,236	0	3,044	84	7	0	1	0	0

Oil and Gas Production by Town in Each County, 2009

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									
Stockton	169,836	0	829	118	5	0	0	0	0
Villanova	141,171	0	477	57	14	0	0	0	0
Westfield	389,205	0	929	253	22	0	0	0	0
County Total	6,473,408	40,187	101,079	3,387	305	454	107	0	0
Chemung County									
Baldwin	327,738	0	23,443	1	2	0	0	0	0
Big Flats	2,095,184	0	2,070	4	1	0	0	0	0
Catlin	1,441,322		3,818	9	2	0	0	0	0
Elmira	0	0	0	0	1	0	0	0	0
Elmira City	2,685		0	1	0	0	0	0	0
Erin	4,037,072	0	5,864	6	1	0	0	0	0
Horseheads	4,910	0	766	0	1	0	0	0	0
Southport	1,752,131	0	50,636	5	2	0	0	0	0
Van Etten	3,048,850	0	16,748	12	1	0	0	0	0
Veteran	1,180,269		44,366	7	2	0	0	0	0
County Total	13,890,161	0	147,711	45	13	0	0	0	0
Chenango County									
Coventry	0	0	0	0	1	0	0	0	0
McDonough	0	0	0	0	1	0	0	0	0
Oxford	0	0	0	0	2	0	0	0	0
Plymouth	78,999	0	1,009	4	0	0	0	0	0
Preston	0	0	0	0	3	0	0	0	0
Smyrna	1,520,382	0	1,852	22	3	0	0	0	0
County Total	1,599,381	0	2,861	26	10	0	0	0	0
Cortland County									
Cortlandville	0	0	0	0	0	0	0	0	0
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	67,735	0	137	58	13	0	0	0	0
Amherst	0	0	0	0	2	0	0	0	0
Aurora	34,746	0	0	41	18	0	0	0	0
Boston	18,683	0	4,079	35	8	0	0	0	0
Brant	99,299	0	622	99	15	0	0	0	0
Buffalo	0	0	0	0	1	0	0	0	0
Cheektowaga	7,591	0	4	11	2	0	0	0	0
Clarence	363	0	1	5	2	0	0	0	0
Colden	2,634	0	2	9	13	0	0	0	0
Collins	468,757	0	11,962	70	9	0	1	0	0
Concord	186,922	0	3,123	75	19	0	0	0	0
Eden	87,481	0	1,178	135	20	0	0	0	0

Oil and Gas Production by Town in Each County, 2009

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									
Elma	60,671	0	85	47	13	0	0	0	0
Evans	97,464	0	491	80	12	0	0	0	0
Hamburg	36,612	0	5	41	32	0	0	0	0
Holland	0	0	0	0	3	0	0	0	0
Lackawanna	1,508	0	0	3	1	0	0	0	0
Lancaster	48,814	0	56	24	33	0	0	0	0
Marilla	28,044	0	0	25	12	0	0	0	0
Newstead	90,342	0	50	54	18	1	0	0	0
North Collins	458,383	0	31,707	127	20	0	0	0	0
Orchard Park	32,064	97	0	32	31	1	0	0	0
Sardinia	504,750	0	18,774	19	2	0	0	0	0
Tonawanda	0	0	0	0	1	0	0	0	0
Tonawanda City	0	0	0	0	1	0	0	0	0
Wales	8,602	0	9,729	19	9	0	0	0	0
West Seneca	23,397	0	0	3	5	0	0	0	0
County Total	2,364,862	97	82,005	1,012	315	2	1	0	0
Genesee County									
Alabama	16,663	0	30	21	0	0	0	0	0
Alexander	44,023	0	573	42	0	0	0	0	0
Batavia	36,975	0	340	38	2	0	0	0	0
Bergen	12	0	0	3	0	0	0	0	0
Bethany	18,303	0	810	28	3	0	0	0	0
Darien	401,877	0	863	227	9	0	0	0	0
Elba	719	0	20	1	1	0	0	0	0
Le Roy	2,140	0	0	8	4	0	0	0	0
Oakfield	14,270	0	60	13	0	0	0	0	0
Pavilion	13,035	0	61	15	10	0	0	0	0
Pembroke	178,780	0	194	125	3	0	0	0	0
Stafford	223	0	0	1	1	0	0	0	0
County Total	727,020	0	2,951	522	33	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	14,638	0	119	16	2	0	0	0	0
Caledonia	43,121	0	485	48	2	0	0	0	0
Groveland	0	0	0	0	1	0	0	0	0
Leicester	24,280	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	1,635	0	0	1	1	0	0	0	0
Sparta	0	0	0	0	2	0	0	0	0
West Sparta	200	0	0	1	5	0	0	0	0
York	26,442	0	1,208	49	3	0	0	0	0
County Total	110,316	0	1,812	131	26	0	0	0	0
Madison County									
Eaton	2,988	0	38	4	1	0	0	0	0
Lebanon	948,089	0	4,274	48	3	0	0	0	0

Oil and Gas Production by Town in Each County, 2009

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									
Stockbridge	0	0	0	0	1	0	0	0	0
County Total	951,077	0	4,312	52	5	0	0	0	0
Niagara County									
Lewiston	150		0	1	0	0	0	0	0
County Total	150		0	1	0	0	0	0	0
Oneida County									
Sangerfield	125	0	0	1	1	0	0	0	0
County Total	125	0	0	1	1	0	0	0	0
Onondaga County									
Lysander	0	0	0	0	1	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	0	9	0	0	0	0
Ontario County									
Bristol	0	0	0	0	2	0	0	0	0
Canandaigua	0	0	0	0	2	0	0	0	0
East Bloomfield	73,119	0	26	15	1	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	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	482		0	1	0	0	0	0	0
Seneca	0	0	0	0	1	0	0	0	0
West Bloomfield	1,458	0	0	1	1	0	0	0	0
County Total	75,059	0	26	17	12	0	0	0	0
Oswego County									
Richland	1		0	1	0	0	0	0	0
Schroeppel	0	0	0	0	1	0	0	0	0
West Monroe	0	0	0	0	1	0	0	0	0
County Total	1	0	0	1	2	0	0	0	0
Otsego County									
Cherry Valley	0	0	0	0	1	0	0	0	0
Maryland	0	0	0	0	0	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									
Dix	37,215	0	1,428	6	0	0	0	0	0
Hector	0	0	0	0	2	0	0	0	0
Orange	767,253		841	9	2	0	0	0	0
Reading	12,416	0	393	3	3	0	0	0	0
Tyrone	0	0	0	0	1	0	0	0	0

Oil and Gas Production by Town in Each County, 2009

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									
County Total	816,884	0	2,662	18	8	0	0	0	0
Seneca County									
Fayette	1,079,940	0	25,913	150	3	0	0	0	0
Junius	13,658	0	0	3	2	0	0	0	0
Seneca Falls	67,208	0	1,165	8	1	0	0	0	0
Tyre	8,109	0	0	3	0	0	0	0	0
Varick	281,233	0	4,453	50	1	0	0	0	0
County Total	1,450,148	0	31,531	214	7	0	0	0	0
Steuben County									
Avoca	490		0	2	0	0	0	0	0
Bath	572,864		419	1	0	0	0	0	0
Bradford	824,220		889	4	1	0	0	0	0
Cameron	0		0	0	0	0	0	0	0
Campbell	670,266		807	4	2	0	0	0	0
Canisteo	0		0	0	1	0	0	0	0
Caton	2,993,831	0	7,699	7	1	0	0	0	0
Cohocton	56,552	0	15	4	0	0	0	0	0
Corning	5,038,140		22,221	11	2	0	0	0	0
Erwin	6,829	0	0	1	1	0	0	0	0
Fremont	0	0	0	0	1	0	0	0	0
Greenwood	130	134	0	1	1	4	0	0	0
Hartsville	0	0	0	1	1	0	0	0	0
Hornby	772,462		1,656	6	3	0	0	0	0
Howard	0	0	0	0	1	0	0	0	0
Jasper	0	0	0	0	3	0	0	0	0
Prattsburg	215,921	0	116	6	0	0	0	0	0
Pulteney	408,577	0	393	11	1	0	0	0	0
Thurston	686,678		556	1	0	0	0	0	0
Troupsburg	18,160	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	47,548	9,858	9,033	0	2	200	12	5	12
Woodhull	8,097	0	0	1	0	0	0	0	0
County Total	12,320,765	9,992	43,804	63	25	204	12	5	12
Tioga County									
Barton	0		0	0	2	0	0	0	0
Candor	0		0	0	1	0	0	0	0
Nichols	0	0	0	0	1	0	0	0	0
Owego	0	0	0	0	2	0	0	0	0
Spencer	733,071		1,448	1	4	0	0	0	0
Tioga	0	0	0	0	0	0	0	0	0
County Total	733,071	0	1,448	1	10	0	0	0	0
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

Oil and Gas Production by Town in Each County, 2009

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									
County Total	0	0	0	0	3	0	0	0	0
Wayne County									
Butler	912	0	100	2	0	0	0	0	0
Galen	32,229	0	0	3	1	0	0	0	0
County Total	33,141	0	100	5	1	0	0	0	0
Wyoming County									
Arcade	50,350	0	0	37	1	0	0	0	0
Attica	1,494		0	2	2	0	0	0	0
Bennington	88,018	0	421	89	3	0	0	0	0
Castile	6,745		0	4	0	0	0	0	0
Covington	75,237	0	195	32	6	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	10,419	0	30	17	6	0	0	0	0
Middlebury	30,848	0	768	4	4	0	0	0	0
Perry	36,167	0	287	36	8	0	0	0	0
Pike	0	0	0	0	1	0	0	0	0
Sheldon	37,542	0	470	39	3	0	0	0	0
Warsaw	1,109	0	0	1	3	0	0	0	0
County Total	337,929	0	2,171	261	39	0	0	0	0
Yates County									
Barrington	0	0	0	0	6	0	0	0	0
Benton	251	0	0	2	8	0	0	0	0
Jerusalem	41,569	0	2,782	1	2	0	0	0	0
Milo	3,654	0	0	1	1	0	0	0	0
Potter	0	0	0	0	1	0	0	0	0
Starkey	0	0	0	0	1	0	0	0	0
Torrey	0	0	0	0	2	0	0	0	0
County Total	45,474	0	2,782	4	21	0	0	0	0
State Total	44,848,895	299,385	811,757	6,625	1,098	3,400	1,429	116	325

Permits Issued During 2009

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Allen	Nornew, Inc.	31003256920000	Redman 1	1/7/2009	
Allen	Nornew, Inc.	31003257260000	Koziel 2	1/7/2009	
Alma	National Fuel Gas Supply Corp.	31003664260002	Dean Estate SC-512	3/31/2009	4/10/2009
Andover	U S Energy Development Corp.	31003253410001	Otis Eastern 16	5/15/2009	5/15/2009
Andover	U S Energy Development Corp.	31003253420001	Otis Eastern 17	1/16/2009	1/24/2009
Andover	U S Energy Development Corp.	31003253440001	Otis Eastern 19	1/16/2009	1/21/2009
Andover	U S Energy Development Corp.	31003253450001	Otis Eastern 20	1/16/2009	1/28/2009
Andover	U S Energy Development Corp.	31003253460001	Otis Eastern 21	4/20/2009	4/21/2009
Andover	U S Energy Development Corp.	31003253470001	Otis Eastern 22	4/20/2009	5/6/2009
Andover	U S Energy Development Corp.	31003253480001	Otis Eastern 23	4/28/2009	4/28/2009
Andover	U S Energy Development Corp.	31003253650001	Liuzzi 2	1/16/2009	
Andover	U S Energy Development Corp.	31003253660001	Liuzzi 3	1/16/2009	
Andover	U S Energy Development Corp.	31003253750000	Joyce 6	7/6/2009	7/6/2009
Andover	U S Energy Development Corp.	31003253840001	Joyce 19	6/30/2009	
Andover	U S Energy Development Corp.	31003253850001	Joyce 20	6/30/2009	
Andover	U S Energy Development Corp.	31003253860000	Joyce 21	2/2/2009	
Andover	U S Energy Development Corp.	31003253870001	Joyce 22	6/30/2009	
Andover	U S Energy Development Corp.	31003253880001	Joyce 23	6/22/2009	6/23/2009
Andover	U S Energy Development Corp.	31003253920001	Joyce 27	1/16/2009	2/11/2009
Andover	U S Energy Development Corp.	31003253940000	Joyce 29	2/2/2009	7/6/2009
Andover	U S Energy Development Corp.	31003253950000	Joyce 30	2/2/2009	6/24/2009
Andover	U S Energy Development Corp.	31003253960001	Joyce 31	1/16/2009	2/18/2009
Andover	U S Energy Development Corp.	31003253970000	Joyce 32	2/2/2009	6/9/2009
Andover	U S Energy Development Corp.	31003253980000	Joyce 33	2/2/2009	6/1/2009
Andover	U S Energy Development Corp.	31003253990000	Joyce 34	2/2/2009	5/22/2009
Andover	U S Energy Development Corp.	31003254000001	Joyce 35	5/28/2009	6/17/2009
Andover	U S Energy Development Corp.	31003254070002	Barrera-Allegany Yankee 1A	7/21/2009	
Andover	U S Energy Development Corp.	31003254080002	Barrera-Allegany Yankee 2A	7/21/2009	
Andover	U S Energy Development Corp.	31003254090002	Barrera-Allegany Yankee 3A	7/21/2009	
Andover	U S Energy Development Corp.	31003254110002	Barrera-Allegany Yankee 5A	7/21/2009	
Andover	U S Energy Development Corp.	31003254120002	Barrera-Allegany Yankee 6A	7/21/2009	
Andover	U S Energy Development Corp.	31003254130002	Barrera-Allegany Yankee 7A	7/21/2009	
Andover	U S Energy Development Corp.	31003254150002	Barrera-Allegany Yankee 9A	7/21/2009	
Andover	U S Energy Development Corp.	31003254160002	Barrera-Allegany Yankee 10A	7/21/2009	
Andover	U S Energy Development Corp.	31003254170002	Barrera-Allegany Yankee 11A	7/21/2009	
Andover	U S Energy Development Corp.	31003254180002	Barrera-Allegany Yankee 12A	7/21/2009	
Andover	U S Energy Development Corp.	31003254240001	Otis Eastern 1	7/10/2009	7/9/2009
Andover	U S Energy Development Corp.	31003254250001	Otis Eastern 2	7/10/2009	7/14/2009
Andover	U S Energy Development Corp.	31003254270001	Otis Eastern 4	7/10/2009	7/17/2009
Andover	U S Energy Development Corp.	31003254280001	Otis Eastern 5	7/10/2009	7/31/2009
Andover	U S Energy Development Corp.	31003254300001	Otis Eastern 7	7/10/2009	8/5/2009

Permits Issued During 2009

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Andover	U S Energy Development Corp.	31003254360000	Eastern Seaboard 4	1/5/2009	
Andover	U S Energy Development Corp.	31003254370000	Eastern Seaboard 5	1/5/2009	
Andover	U S Energy Development Corp.	31003254380001	Eastern Seaboard 6	1/16/2009	3/18/2009
Andover	U S Energy Development Corp.	31003254390001	Eastern Seaboard 7	1/16/2009	6/24/2009
Andover	U S Energy Development Corp.	31003254420000	Eastern Seaboard 10	1/5/2009	
Andover	U S Energy Development Corp.	31003254430000	Eastern Seaboard 11	1/5/2009	7/3/2009
Andover	U S Energy Development Corp.	31003254440000	Eastern Seaboard 12	1/5/2009	2/25/2009
Andover	U S Energy Development Corp.	31003254480000	Eastern Seaboard 16	1/5/2009	
Andover	U S Energy Development Corp.	31003254490000	Eastern Seaboard 17	1/5/2009	7/6/2009
Andover	U S Energy Development Corp.	31003254500000	Eastern Seaboard 18	1/5/2009	
Andover	Otis Eastern Service, Inc.	31003259610000	Clark CV 5	4/15/2009	5/28/2009
Andover	Otis Eastern Service, Inc.	31003259620000	Clark CV 6	4/15/2009	6/15/2009
Andover	Otis Eastern Service, Inc.	31003259630000	Clark CV 7	4/15/2009	6/3/2009
Andover	Otis Eastern Service, Inc.	31003259640000	Clark CV 8	4/15/2009	6/8/2009
Andover	Hornet Oil	31003259740000	Hornet Oil 1	5/12/2009	6/8/2009
Andover	Hornet Oil	31003259750000	Hornet Oil 2	5/12/2009	6/15/2009
Andover	U S Energy Development Corp.	31003275060000	Eastern Seaboard 12A	7/14/2009	7/14/2009
Independence	Plants & Goodwin, Inc.	31003257440000	Grantier 25	1/8/2009	5/28/2009
Independence	Plants & Goodwin, Inc.	31003257450000	Grantier 26	1/8/2009	6/10/2009
Independence	Plants & Goodwin, Inc.	31003257460000	Grantier 27	1/8/2009	6/15/2009
Independence	Plants & Goodwin, Inc.	31003257470000	Grantier 28	1/8/2009	5/6/2009
Independence	Plants & Goodwin, Inc.	31003259660000	Grantier 29	4/20/2009	5/13/2009
Independence	Plants & Goodwin, Inc.	31003259670000	Grantier 30	4/20/2009	5/19/2009
Independence	Plants & Goodwin, Inc.	31003259680000	Grantier 31	4/20/2009	6/5/2009
Independence	Plants & Goodwin, Inc.	31003259690000	Grantier 32	4/20/2009	6/2/2009
Independence	Otis Eastern Service, Inc.	31003275140000	Leahy 2	8/12/2009	8/17/2009
Scio	Ardent Resources, Inc.	31003257560000	Nicholas 1	1/20/2009	
Scio	Ardent Resources, Inc.	31003257570000	Nicholas 2	1/20/2009	
Scio	Ardent Resources, Inc.	31003257580000	Nicholas 3	1/20/2009	
Scio	Ardent Resources, Inc.	31003257590000	Nicholas 4	1/20/2009	2/9/2009
Scio	Ardent Resources, Inc.	31003257600000	Nicholas 5	1/20/2009	2/5/2009
Scio	Ardent Resources, Inc.	31003257620000	Nicholas 7	1/20/2009	
Scio	Ardent Resources, Inc.	31003257630000	Air Preheater 1	1/27/2009	
Scio	Ardent Resources, Inc.	31003257640000	Air Preheater 2	1/27/2009	2/13/2009
Scio	Ardent Resources, Inc.	31003257650000	Air Preheater 3	1/28/2009	
Scio	Ardent Resources, Inc.	31003257660000	Air Preheater 4	1/21/2009	
Scio	Ardent Resources, Inc.	31003257670000	Air Preheater 5	1/21/2009	
Scio	Ardent Resources, Inc.	31003257680000	Air Preheater 6	1/21/2009	
Scio	Ardent Resources, Inc.	31003257690000	Air Preheater 7	1/21/2009	
Scio	Ardent Resources, Inc.	31003257700000	Air Preheater 8	1/21/2009	
Scio	Ardent Resources, Inc.	31003257710000	Air Preheater 9	1/21/2009	
Scio	Ardent Resources, Inc.	31003257830000	Air Preheater 10	1/27/2009	

Permits Issued During 2009

Town	Company	API Number	Well Name	Issue Date	Spud Date
Allegany					
Scio	Ardent Resources, Inc.	31003257840000	Air Preheater 11	1/27/2009	
Scio	Ardent Resources, Inc.	31003257850000	Air Preheater 12	1/28/2009	
Scio	Ardent Resources, Inc.	31003257860000	Air Preheater 13	1/28/2009	
Scio	Ardent Resources, Inc.	31003257870000	Air Preheater 14	1/28/2009	
Scio	Ardent Resources, Inc.	31003257880000	Air Preheater 15	1/27/2009	
Scio	Ardent Resources, Inc.	31003257890000	Air Preheater 16	1/27/2009	
Scio	Ardent Resources, Inc.	31003257900000	Air Preheater 17	1/28/2009	
Scio	Ardent Resources, Inc.	31003257910000	Air Preheater 18	1/28/2009	
Scio	Ardent Resources, Inc.	31003257920000	Air Preheater 19	1/28/2009	
Scio	Ardent Resources, Inc.	31003257930000	Air Preheater 20	1/28/2009	
Scio	Ardent Resources, Inc.	31003257990000	Nicholas 8	1/20/2009	
Scio	Ardent Resources, Inc.	31003258000000	Nicholas 9	1/20/2009	
Scio	Ardent Resources, Inc.	31003258030000	Air Preheater 21	1/28/2009	
Scio	Ardent Resources, Inc.	31003258040000	Air Preheater 22	1/28/2009	
Scio	Ardent Resources, Inc.	31003258050000	Air Preheater 23	1/28/2009	
Scio	Ardent Resources, Inc.	31003258060000	Air Preheater 24	1/28/2009	
Scio	Ardent Resources, Inc.	31003258070000	Air Preheater 25	1/28/2009	
Scio	Ardent Resources, Inc.	31003258080000	Air Preheater 26	1/28/2009	
Scio	Ardent Resources, Inc.	31003258090000	Air Preheater 27	1/28/2009	
Scio	Ardent Resources, Inc.	31003258100000	Air Preheater 28	1/28/2009	
Scio	Ardent Resources, Inc.	31003258110000	Air Preheater 29	1/28/2009	
Scio	Ardent Resources, Inc.	31003258120000	Air Preheater 30	1/28/2009	
Wellsville	Ardent Resources, Inc.	31003257520000	Mulholland 1	1/15/2009	
Wellsville	Ardent Resources, Inc.	31003257530000	Mulholland 2	1/15/2009	
Wellsville	Ardent Resources, Inc.	31003257540000	Mulholland 3	1/15/2009	
Wellsville	Ardent Resources, Inc.	31003257550000	Mulholland 4	1/15/2009	2/2/2009
Wellsville	Ardent Resources, Inc.	31003257610000	Nicholas 6	1/20/2009	2/18/2009
Wellsville	Taylor, Ricky L.	31003259730000	Voorhees 1	5/7/2009	7/23/2009
Wellsville	Otis Eastern Service, Inc.	31003275450000	Tullar-Joyce 5	12/10/2009	12/22/2009
Willing	National Fuel Gas Supply Corp.	31003003830001	Cunningham Alice 1 (NFGSC # SC-494	8/31/2009	9/8/2009
Willing	National Fuel Gas Supply Corp.	31003201160002	Ryan J 1 SC-490	4/14/2009	5/13/2009
Wirt	Plants & Goodwin, Inc.	31003257430000	Nelson 27	1/8/2009	4/30/2009
Wirt	Ardent Resources, Inc.	31003258390000	Dunmire 1	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258400000	Dunmire 2	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258410000	Dunmire 3	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258420000	Dunmire 4	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258430000	Dunmire 5	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258440000	Dunmire 6	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258450000	Dunmire 7	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258460000	Dunmire 8	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258470000	Dunmire 9	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258480000	Dunmire 10	2/9/2009	

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Allegany					
Wirt	Ardent Resources, Inc.	31003258490000	Dunmire 11	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258500000	Dunmire 12	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258510000	Dunmire 13	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258520000	Dunmire 14	2/9/2009	
Wirt	Ardent Resources, Inc.	31003258530000	Dunmire 15	2/9/2009	
Cattaraugus					
Allegany	Burlingame, Leonard L	31009259700000	Burlingame, L. 3	4/27/2009	5/4/2009
Allegany	Burlingame, Leonard L	31009259940000	Burlingame 4	6/2/2009	6/2/2009
Allegany	Bouquin, Fred L.	31009259950000	Smith 20	5/27/2009	6/10/2009
Allegany	Bouquin, Fred L.	31009259960000	Smith 21	5/27/2009	6/19/2009
Allegany	Burlingame, Leonard L	31009275020000	Burlingame 5	7/1/2009	7/6/2009
Allegany	Uhl, Stephen L.	31009275160000	Peck 1	8/27/2009	9/3/2009
Allegany	McCracken, Carl A. III	31009275290000	Birch Run Day 3P	10/23/2009	12/7/2009
Allegany	McCracken, Carl A. III	31009275300000	Birch Run Day 4P	10/23/2009	12/10/2009
Allegany	McCracken, Carl A. III	31009275310000	Truman 2	10/23/2009	12/1/2009
Allegany	Snyder Brothers, Inc.	31009275330000	Nichols Run SBNR 30	10/28/2009	11/3/2009
Allegany	Snyder Brothers, Inc.	31009275340000	Nichols Run SBNR 32	10/28/2009	11/6/2009
Allegany	Snyder Brothers, Inc.	31009275350000	Nichols Run SBNR 33	10/28/2009	10/30/2009
Allegany	Snyder Brothers, Inc.	31009275380000	Nichols Run SBNR 35	11/9/2009	11/10/2009
Allegany	Snyder Brothers, Inc.	31009275390000	Nichols Run SBNR 36	11/9/2009	11/12/2009
Ashford	A. J. Lease Account	31009254650000	Ford et al 2	4/14/2009	7/14/2009
Carrollton	Dallas Energy, LLC	31009255880001	Potter Lumber PL13	11/3/2009	11/5/2009
Carrollton	Dallas Energy, LLC	31009255890001	Potter Lumber PL16	11/5/2009	11/10/2009
Carrollton	Dallas Energy, LLC	31009255900001	Potter Lumber PL17	11/2/2009	11/13/2009
Carrollton	Dallas Energy, LLC	31009255910001	Potter Lumber PL21A	11/12/2009	11/17/2009
Carrollton	Dallas Energy, LLC	31009255920001	Potter Lumber PL27	11/5/2009	11/24/2009
Carrollton	Dallas Energy, LLC	31009255940001	Trimble 4A	11/27/2009	4/29/2010
Carrollton	McCracken, Carl A. III	31009259210000	Dutka BD-6	3/19/2009	3/31/2009
Carrollton	McCracken, Carl A. III	31009259220000	Ertz-Carey EC-2	3/19/2009	4/14/2009
Carrollton	McCracken, Carl A. III	31009259230000	Mueller M-22	3/19/2009	4/21/2009
Carrollton	McCracken, Carl A. III	31009259240000	Roeske-Eakin RE-7	3/19/2009	3/26/2009
Carrollton	McCracken, Carl A. III	31009259250000	Roeske-Eakin RE-8	3/19/2009	3/24/2009
Carrollton	McCracken, Carl A. III	31009259590000	Woodard 1	4/14/2009	4/27/2009
Carrollton	McCracken, Carl A. III	31009259600000	Woodard 4	4/14/2009	4/30/2009
Carrollton	Bouquin, Fred L.	31009259790000	Wahl 25A	5/7/2009	5/14/2009
Carrollton	Bouquin, Fred L.	31009259800000	Wahl 26	5/7/2009	5/21/2009
Carrollton	Bouquin, Fred L.	31009259810000	Wahl 30	5/7/2009	5/28/2009
Carrollton	Dallas Energy, LLC	31009275030000	Caskey 4	8/7/2009	8/19/2009
Carrollton	McCracken, Carl A. III	31009275170000	Rosa O'Brien West 7	9/29/2009	1/19/2010
Carrollton	McCracken, Carl A. III	31009275180000	Rosa O'Brien West 8	9/29/2009	3/29/2010
Carrollton	McCracken, Carl A. III	31009275220000	Roeske-Eakin RE-9	10/9/2009	12/30/2009
Carrollton	McCracken, Carl A. III	31009275230000	Roeske-Eakin RE-10	10/9/2009	12/24/2009

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Cattaraugus					
Carrollton	McCracken, Carl A. III	31009275240000	Dutka BD-9	10/9/2009	12/21/2009
Carrollton	Dallas Energy, LLC	31009275370000	Potter Lumber PL31	11/5/2009	12/2/2009
Dayton	Chautauqua Energy, Inc.	31009259710000	Hanson-Ivett 1	5/7/2009	5/13/2009
East Otto	U S Energy Development Corp.	31009248170002	Race 1	2/27/2009	3/19/2009
Humphrey	Ardent Resources, Inc.	31009257940000	Bukowiecki 1	2/19/2009	
Humphrey	Ardent Resources, Inc.	31009257950000	Bukowiecki 2	2/19/2009	
Humphrey	Ardent Resources, Inc.	31009257960000	Bukowiecki 3	2/19/2009	
Humphrey	Ardent Resources, Inc.	31009257970000	Bukowiecki 4	2/19/2009	
Humphrey	Ardent Resources, Inc.	31009257980000	Bukowiecki 5	2/19/2009	
Leon	U S Energy Development Corp.	31009250740001	Detweiler 2	7/2/2009	8/18/2009
Leon	U S Energy Development Corp.	31009250760001	Slabaugh 1	6/24/2009	
Leon	U S Energy Development Corp.	31009250770001	Slabaugh 2	6/24/2009	6/23/2009
Leon	U S Energy Development Corp.	31009250780001	Slabaugh 3	6/4/2009	8/4/2009
Leon	U S Energy Development Corp.	31009250900001	Detweiler 1	2/4/2009	1/15/2009
Leon	U S Energy Development Corp.	31009252640001	Smith 9	2/19/2009	
Leon	U S Energy Development Corp.	31009252990001	Blakely 3	3/24/2009	
Leon	U S Energy Development Corp.	31009259470000	Pritchard 1	5/11/2009	
Napoli	PC Exploration, Inc.	31009254590001	Adams/Raber 1A	1/21/2009	6/7/2008
Napoli	PC Exploration, Inc.	31009254590002	Adams/Raber 1B	1/21/2009	3/26/2009
Olean	U S Energy Development Corp.	31009257810000	Young 1	1/23/2009	2/5/2009
Olean	U S Energy Development Corp.	31009258020000	Young 2	1/23/2009	2/16/2009
Olean	U S Energy Development Corp.	31009258180000	Young 3	2/18/2009	
Olean	U S Energy Development Corp.	31009258190000	Young 4	2/18/2009	
Olean	U S Energy Development Corp.	31009258200000	Young 5	2/18/2009	
Olean	U S Energy Development Corp.	31009258210000	Young 6	2/18/2009	
Olean	U S Energy Development Corp.	31009258220000	Young 7	2/18/2009	
Olean	U S Energy Development Corp.	31009258230000	Young 8	3/6/2009	
Olean	U S Energy Development Corp.	31009258240000	Young 9	2/18/2009	
Olean	U S Energy Development Corp.	31009258250000	Young 10	2/18/2009	
Olean	U S Energy Development Corp.	31009258260000	Young 11	2/18/2009	
Olean	U S Energy Development Corp.	31009258270000	Young 12	2/18/2009	
Olean	U S Energy Development Corp.	31009258280000	Young 13	2/18/2009	
Olean	U S Energy Development Corp.	31009258290000	Young 14	3/6/2009	
Olean	U S Energy Development Corp.	31009258300000	Young 15	3/6/2009	
Olean	U S Energy Development Corp.	31009258320000	Young 17	2/18/2009	
Olean	U S Energy Development Corp.	31009258330000	Young 18	3/6/2009	
Olean	U S Energy Development Corp.	31009258340000	Young 19	3/6/2009	
Olean	U S Energy Development Corp.	31009258350000	Young 20	3/6/2009	
Olean	U S Energy Development Corp.	31009258360000	Young 21	2/18/2009	
Olean	U S Energy Development Corp.	31009258370000	Young 22	2/18/2009	
Olean	U S Energy Development Corp.	31009258380000	Young 23	3/6/2009	
Olean	U S Energy Development Corp.	31009258540000	Young 24	3/6/2009	

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Cattaraugus					
Olean	U S Energy Development Corp.	31009258550000	Young 25	3/6/2009	3/26/2009
Olean	U S Energy Development Corp.	31009258560000	Young 26	3/6/2009	
Olean	U S Energy Development Corp.	31009258560001	Young 26	12/15/2009	2/15/2010
Olean	U S Energy Development Corp.	31009258570000	Young 27	3/6/2009	
Olean	U S Energy Development Corp.	31009258570001	Young 27	12/15/2009	2/18/2010
Olean	U S Energy Development Corp.	31009258580000	Young 28	2/18/2009	
Olean	U S Energy Development Corp.	31009258590000	Young 29	2/18/2009	3/31/2009
Olean	U S Energy Development Corp.	31009258600000	Young 31	3/6/2009	
Olean	U S Energy Development Corp.	31009258610000	Young 32	3/6/2009	
Olean	U S Energy Development Corp.	31009258620000	Young 33	3/6/2009	3/26/2009
Olean	U S Energy Development Corp.	31009258630000	Young 34	3/6/2009	
Olean	U S Energy Development Corp.	31009258630001	Young 34	12/15/2009	1/13/2010
Olean	U S Energy Development Corp.	31009258640000	Young 35	2/18/2009	
Olean	U S Energy Development Corp.	31009258640001	Young 35	12/15/2009	1/18/2010
Olean	U S Energy Development Corp.	31009258650000	Young 36	3/6/2009	
Olean	U S Energy Development Corp.	31009258650001	Young 36	12/15/2009	1/28/2010
Olean	U S Energy Development Corp.	31009258660000	Young 37	3/6/2009	
Olean	U S Energy Development Corp.	31009258660001	Young 37	12/15/2009	2/1/2010
Olean	U S Energy Development Corp.	31009258670000	Young 38	2/18/2009	3/4/2009
Olean	U S Energy Development Corp.	31009258680000	Young 39	3/20/2009	
Olean	U S Energy Development Corp.	31009258690000	Young 40	3/6/2009	
Olean	U S Energy Development Corp.	31009258700000	Young 41	3/6/2009	
Olean	U S Energy Development Corp.	31009258710000	Young 42	3/6/2009	
Olean	U S Energy Development Corp.	31009258710001	Young 42	12/15/2009	5/22/2010
Olean	U S Energy Development Corp.	31009258720000	Young 46	2/18/2009	3/5/2009
Olean	U S Energy Development Corp.	31009258730000	Young 47	2/18/2009	
Olean	U S Energy Development Corp.	31009258740000	Young 48	3/20/2009	
Olean	U S Energy Development Corp.	31009258750000	Young 49	3/20/2009	
Olean	U S Energy Development Corp.	31009258760000	Young 50	2/18/2009	
Olean	U S Energy Development Corp.	31009258920000	Young 43	3/20/2009	
Olean	U S Energy Development Corp.	31009258920001	Young 43	12/15/2009	1/19/2010
Olean	U S Energy Development Corp.	31009258930000	Young 44	3/20/2009	
Olean	U S Energy Development Corp.	31009258930001	Young 44	12/15/2009	1/15/2010
Olean	U S Energy Development Corp.	31009258940000	Young 45	3/20/2009	
Olean	U S Energy Development Corp.	31009258940001	Young 45	12/15/2009	2/4/2010
Olean	U S Energy Development Corp.	31009258960000	Young 52	3/20/2009	
Olean	U S Energy Development Corp.	31009258970000	Young 53	3/20/2009	
Olean	U S Energy Development Corp.	31009258980000	Young 55	3/20/2009	
Olean	U S Energy Development Corp.	31009258990000	Young 56	3/20/2009	
Olean	U S Energy Development Corp.	31009259000000	Young 57	3/20/2009	
Olean	U S Energy Development Corp.	31009259010000	Young 58	3/20/2009	
Olean	U S Energy Development Corp.	31009259020000	Young 59	3/20/2009	

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Cattaraugus					
Olean	U S Energy Development Corp.	31009259040000	Young 61	3/20/2009	
Olean	U S Energy Development Corp.	31009259050000	Young 62	3/20/2009	
Olean	U S Energy Development Corp.	31009259070000	Young 64	3/20/2009	
Olean	U S Energy Development Corp.	31009259090000	Young 66	3/20/2009	
Olean	U S Energy Development Corp.	31009259100000	Young 67	3/20/2009	
Olean	U S Energy Development Corp.	31009259110000	Young 68	3/20/2009	
Olean	U S Energy Development Corp.	31009259120000	Young 69	3/20/2009	
Olean	U S Energy Development Corp.	31009259130000	Young 70	3/20/2009	
Olean	U S Energy Development Corp.	31009259270000	Young 72	4/6/2009	
Olean	U S Energy Development Corp.	31009259280000	Young 73	4/6/2009	
Olean	U S Energy Development Corp.	31009259290000	Young 74	4/6/2009	
Olean	U S Energy Development Corp.	31009259300000	Young 75	4/6/2009	
Olean	U S Energy Development Corp.	31009259310000	Young 76	4/6/2009	
Olean	U S Energy Development Corp.	31009259320000	Young 77	4/6/2009	
Olean	U S Energy Development Corp.	31009259330000	Young 78	4/6/2009	
Olean	U S Energy Development Corp.	31009259330001	Young 78	12/15/2009	1/25/2010
Olean	U S Energy Development Corp.	31009259340000	Young 79	4/6/2009	
Olean	U S Energy Development Corp.	31009259340001	Young 79	12/15/2009	2/1/2010
Olean	U S Energy Development Corp.	31009259350000	Young 80	4/6/2009	
Olean	U S Energy Development Corp.	31009259350001	Young 80	12/15/2009	1/11/2010
Olean	U S Energy Development Corp.	31009259360000	Young 81	4/6/2009	
Olean	U S Energy Development Corp.	31009259370000	Young 82	4/6/2009	
Olean	U S Energy Development Corp.	31009259380000	Young 85	4/6/2009	
Olean	U S Energy Development Corp.	31009259380001	Young 85	12/15/2009	2/4/2010
Olean	U S Energy Development Corp.	31009259390000	Young 86	4/6/2009	
Olean	U S Energy Development Corp.	31009259390001	Young 86	12/15/2009	2/8/2010
Olean	U S Energy Development Corp.	31009259400000	Young 87	4/6/2009	
Olean	U S Energy Development Corp.	31009259400001	Young 87	12/15/2009	2/10/2010
Olean	U S Energy Development Corp.	31009259410000	Young 88	4/6/2009	
Olean	U S Energy Development Corp.	31009259420000	Young 89	4/6/2009	
Olean	Copper Ridge Oil, Inc.	31009275320000	Struble 2	10/28/2009	12/10/2009
Perrysburg	U S Energy Development Corp.	31009252870000	Sprague 5	1/2/2009	
Perrysburg	U S Energy Development Corp.	31009256860000	Dalimonte 1	5/11/2009	9/9/2009
Perrysburg	U S Energy Development Corp.	31009256970000	Maines 2	8/3/2009	10/8/2009
Perrysburg	U S Energy Development Corp.	31009259440000	Ruff 1	3/19/2009	
Cayuga					
Aurelius	Lake Energy LLC	31011260660000	Bacon A137A-1	5/4/2009	
Aurelius	Lake Energy LLC	31011260670000	Patterson A130-6	5/4/2009	
Aurelius	Lake Energy LLC	31011260680000	Foster A119-7	5/4/2009	
Aurelius	Lake Energy LLC	31011260690000	Foster A107-5	5/4/2009	
Aurelius	Lake Energy LLC	31011260700000	Horst A136-4	5/4/2009	
Victory	Lenape Resources, Inc.	31011263490000	Southwick 1	3/6/2009	3/26/2009

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Chautauqua					
Arkwright	U S Energy Development Corp.	31013259520000	Pacos 1	4/1/2009	
Arkwright	U S Energy Development Corp.	31013259530000	Maslach 1	4/1/2009	
Busti	Johnson, Mark & Troy	31013259830000	Curtis 25A	6/3/2009	8/26/2009
Busti	Johnson, Mark & Troy	31013259840000	Curtis 26A	6/3/2009	9/1/2009
Busti	Johnson, Mark & Troy	31013259850000	Curtis 27A	6/3/2009	7/29/2009
Busti	Johnson, Mark & Troy	31013259860000	Curtis 28A	6/3/2009	8/6/2009
Busti	Johnson, Mark & Troy	31013259870000	Pangborn 9	6/3/2009	7/4/2009
Busti	Johnson, Mark & Troy	31013259880000	Pangborn 10	6/3/2009	7/20/2009
Busti	Johnson, Mark & Troy	31013259890000	Pangborn 11	6/3/2009	6/13/2009
Busti	Johnson, Mark & Troy	31013259900000	Pangborn 12	6/3/2009	6/22/2009
Busti	Vertical Energy, Inc.	31013259970000	Towne M MT 5	6/8/2009	6/25/2009
Busti	Decker, James K. & Tiffany J.	31013259980000	Sperry 10	6/29/2009	6/30/2009
Busti	Decker, James K. & Tiffany J.	31013259990000	Schrader 3	6/24/2009	7/6/2009
Busti	Vertical Energy, Inc.	31013275050000	Towne M. 4	7/3/2009	7/17/2009
Busti	Vertical Energy, Inc.	31013275250000	Towne M 3	10/28/2009	11/24/2009
Carroll	P & H Gas, LLC	31013258170000	Stoffer 1	2/23/2009	
Charlotte	U S Energy Development Corp.	31013150260001	Bender 1	8/12/2009	11/9/2009
Ellery	Universal Resources Holdings, Inc.	31013254830001	Mikula 1	5/14/2009	6/15/2009
Ellery	Unbridled Energy NY LLC	31013257370000	Miller 2	1/28/2009	4/1/2009
Ellery	Unbridled Energy NY LLC	31013257370001	Miller 2	8/12/2009	8/12/2009
Ellery	Universal Resources Holdings, Inc.	31013259760000	Cornell 2	5/14/2009	6/8/2009
Ellicott	U S Energy Development Corp.	31013257380000	Dorsey 1	1/30/2009	
Ellicott	U S Energy Development Corp.	31013257740000	D'Angelo 3	2/10/2009	
Ellicott	U S Energy Development Corp.	31013257740001	D'Angelo 3	9/11/2009	9/14/2009
Ellicott	U S Energy Development Corp.	31013257820000	Pumford 1	8/3/2009	
French Creek	Chautauqua Energy, Inc.	31013275430000	Manross 1	12/2/2009	1/18/2010
Gerry	Chautauqua Energy, Inc.	31013275410000	Swanson 4	11/18/2009	12/1/2009
Hanover	U S Energy Development Corp.	31013252700000	D'Angelo 1	2/9/2009	4/2/2009
Hanover	U S Energy Development Corp.	31013256800000	Gajewski 1	5/4/2009	6/24/2009
Hanover	U S Energy Development Corp.	31013257090000	Anthony 2	2/10/2009	3/11/2009
Hanover	Cotton Well Drilling Co., Inc.	31013259720000	Tri County 1	5/12/2009	6/3/2009
Hanover	Universal Resources Holdings, Inc.	31013259770000	Richter 1	5/14/2009	5/29/2009
Hanover	Universal Resources Holdings, Inc.	31013259780000	Richter 2	5/14/2009	6/2/2009
North Harmony	Stedman Energy, Inc.	31013254870000	Wiggers 3	4/15/2009	6/22/2009
Poland	U S Energy Development Corp.	31013251440000	Johnson 5	1/15/2009	
Poland	U S Energy Development Corp.	31013251440001	Johnson 5	10/13/2009	10/22/2009
Poland	U S Energy Development Corp.	31013251500001	Carlberg 4	3/30/2009	
Poland	U S Energy Development Corp.	31013255400000	Richir 1	5/7/2009	
Poland	EnerVest Operating, LLC	31013256140000	Blitz 1	1/7/2009	
Pomfret	U S Energy Development Corp.	31013248710001	Bailen 1	9/11/2009	11/20/2009
Pomfret	U S Energy Development Corp.	31013249340002	Renswick 2B	2/17/2009	3/23/2009
Portland	Chautauqua Energy, Inc.	31013256370001	Russo 1	11/4/2009	11/13/2009

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Chautauqua					
Sheridan	Cotton Well Drilling Co., Inc.	31013275440000	Opeil 2	12/16/2009	6/1/2010
Stockton	U S Energy Development Corp.	31013252690002	Bardal 1	8/6/2009	9/18/2009
Villanova	U S Energy Development Corp.	31013257720000	Buelow 1	2/4/2009	
Villanova	U S Energy Development Corp.	31013257730000	Holland 1	2/12/2009	
Villanova	U S Energy Development Corp.	31013257730001	Holland 1	11/18/2009	12/15/2009
Westfield	U S Energy Development Corp.	31013257240001	Riedesel 1	11/18/2009	3/31/2010
Chemung					
Baldwin	Chesapeake Appalachia, L.L.C.	31015263350000	Sheridan 1H (627241)	2/20/2009	
Big Flats	Anschutz Exploration Corporation	31015262820000	Holchuck 1	1/29/2009	
Big Flats	Anschutz Exploration Corporation	31015264140000	Dow 1	12/9/2009	2/24/2010
Big Flats	Anschutz Exploration Corporation	31015264150000	Dow 2	11/18/2009	3/2/2010
Horseheads	Anschutz Exploration Corporation	31015263040000	Ruger 1	1/26/2009	2/26/2009
Chenango					
Coventry	Nornew, Inc.	31017261510000	Tuttle 1H	2/26/2009	
Plymouth	Norse Energy Corp USA	31017263410000	Slater 1H	3/11/2009	9/18/2009
Plymouth	Norse Energy Corp USA	31017263770000	Beckwith, S. 2H	8/20/2009	10/8/2009
Plymouth	Nornew, Inc.	31017263780000	Hutchings, L. 1H	7/1/2009	
Plymouth	Norse Energy Corp USA	31017264040000	Comisac, M. 1H	11/24/2009	12/22/2009
Preston	Norse Energy Corp USA	31017264370000	Maynard, F. 1H	11/10/2009	
Smyrna	Norse Energy Corp USA	31017262940000	Sweezy, J. 1H	2/27/2009	3/7/2009
Smyrna	Norse Energy Corp USA	31017263010000	Smyrna Hillbillies 5H	10/13/2009	
Smyrna	Norse Energy Corp USA	31017263100000	Ingerto 1H	5/6/2009	8/17/2009
Smyrna	Norse Energy Corp USA	31017263160000	Yager, L. 3H	12/23/2009	
Smyrna	Norse Energy Corp USA	31017263290000	Ingerto, J. 2H	5/6/2009	6/17/2009
Smyrna	Nornew, Inc.	31017263310000	Corey, F. 3H	3/26/2009	
Smyrna	Norse Energy Corp USA	31017263330000	Nelson 1H	6/24/2009	7/21/2009
Smyrna	Norse Energy Corp USA	31017263420000	Parry 1H	3/26/2009	9/5/2009
Smyrna	Norse Energy Corp USA	31017263470000	Whitehead, D. 1H	10/23/2009	
Smyrna	Norse Energy Corp USA	31017263480000	Cole, J. 1H	12/14/2009	
Smyrna	Norse Energy Corp USA	31017264130000	Khoury, M. 1H	10/7/2009	10/31/2009
Smyrna	Norse Energy Corp USA	31017264380000	Davis, K. 1H	12/1/2009	
Smyrna	Norse Energy Corp USA	31017264390000	Campbell Estates, M. 1H	12/1/2009	1/27/2010
Smyrna	Norse Energy Corp USA	31017264410000	Campbell Estates 2H	12/3/2009	
Cortland					
Virgil	Chesapeake Appalachia, L.L.C.	31023263240000	Van Donsel 1 (627154)	3/20/2009	9/6/2009
Erie					
Alden	Alden Aurora Gas Co., Inc.	31029257340001	Hammer 1	3/3/2009	
Alden	Alden Aurora Gas Co., Inc.	31029275210000	Hammer 1	10/1/2009	
Aurora	U S Energy Development Corp.	31029259200000	McLaughlin 1	3/18/2009	
Aurora	U S Energy Development Corp.	31029259480000	Smith 12	7/15/2009	
Boston	U S Energy Development Corp.	31029257130000	Mancuso 3	8/3/2009	

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Town	Company	API Number	Well Name	Issue Date	Spud Date
Erie					
Boston	U S Energy Development Corp.	31029258810000	D'Angelo 2	3/12/2009	
Brant	U S Energy Development Corp.	31029257390000	Mason 3	1/7/2009	3/16/2009
Brant	U S Energy Development Corp.	31029257410000	Turnbull 1	2/10/2009	
Brant	U S Energy Development Corp.	31029257760000	Loretto 1	3/16/2009	
Brant	U S Energy Development Corp.	31029257800000	Jaworski 1	1/14/2009	3/16/2009
Colden	U S Energy Development Corp.	31029256990000	Nuttle 1	2/12/2009	
Colden	U S Energy Development Corp.	31029258890000	Baker 1	2/26/2009	
Collins	U S Energy Development Corp.	31029248510001	Agle 1	2/11/2009	
Collins	U S Energy Development Corp.	31029251900000	Heary 3	7/15/2009	11/19/2009
Collins	U S Energy Development Corp.	31029252750000	Timmel 5	3/25/2009	7/23/2009
Collins	P & H Gas, LLC	31029255840000	Eyring T 1	7/2/2009	12/28/2009
Collins	U S Energy Development Corp.	31029256520000	Palen 2	3/6/2009	3/24/2009
Collins	U S Energy Development Corp.	31029257320001	Zureck 1	11/20/2009	12/15/2009
Collins	U S Energy Development Corp.	31029258010000	Muchnik 2	3/6/2009	3/25/2009
Collins	U S Energy Development Corp.	31029258820000	Cappella 1	9/11/2009	3/3/2010
Collins	U S Energy Development Corp.	31029258830000	Dibiasi 5	9/11/2009	1/4/2010
Collins	U S Energy Development Corp.	31029259550000	Nugent 1	4/9/2009	
Concord	U S Energy Development Corp.	31029248750001	Hartmann 1	11/19/2009	
Concord	U S Energy Development Corp.	31029252460001	Renzi 1	2/17/2009	
Concord	U S Energy Development Corp.	31029254570000	Fornes 1	3/5/2009	
Concord	U S Energy Development Corp.	31029254570001	Fornes 1	12/23/2009	
Concord	U S Energy Development Corp.	31029256030000	Fornes 3	3/12/2009	
Concord	U S Energy Development Corp.	31029256430000	Hall 1	3/5/2009	
Concord	U S Energy Development Corp.	31029256430001	Hall 1	12/23/2009	
Concord	U S Energy Development Corp.	31029256780000	Henry 3	3/27/2009	
Concord	U S Energy Development Corp.	31029256780001	Henry 3	12/23/2009	
Concord	U S Energy Development Corp.	31029256790000	Henry 2	3/26/2009	
Concord	U S Energy Development Corp.	31029256790001	Henry 2	12/23/2009	
Concord	U S Energy Development Corp.	31029257750000	Henry 4	1/21/2009	
Concord	U S Energy Development Corp.	31029257750001	Henry Unit 4	12/24/2009	
Concord	U S Energy Development Corp.	31029259500000	Barrett 2	4/7/2009	
Concord	U S Energy Development Corp.	31029259500001	Barrett 2	12/18/2009	6/18/2010
Eden	U S Energy Development Corp.	31029252890000	Pepe 2	1/2/2009	
Eden	U S Energy Development Corp.	31029252900000	Pepe 1	1/2/2009	
Eden	U S Energy Development Corp.	31029258160000	Robb 1	3/12/2009	
Eden	U S Energy Development Corp.	31029259140000	Braen 1	3/13/2009	
Eden	U S Energy Development Corp.	31029259150000	Palleschi 1	3/13/2009	3/31/2009
Eden	U S Energy Development Corp.	31029259170000	Robb 2	3/13/2009	
Eden	Subsea Oil & Gas, Inc.	31029260000000	Mangino 1	7/2/2009	7/28/2009
Newstead	Subsea Oil & Gas, Inc.	31029275010000	Buonanno 2	7/2/2009	9/23/2009
North Collins	U S Energy Development Corp.	31029252780000	Gabel 5	5/4/2009	10/26/2009
North Collins	U S Energy Development Corp.	31029252790000	Seufert 1	1/2/2009	6/18/2009

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Town	Company	API Number	Well Name	Issue Date	Spud Date
Erie					
North Collins	U S Energy Development Corp.	31029255270001	Krall 1	1/7/2009	1/9/2009
North Collins	U S Energy Development Corp.	31029255280000	Spicola 1	5/11/2009	11/9/2009
North Collins	U S Energy Development Corp.	31029255290000	Spicola 2	5/11/2009	
North Collins	U S Energy Development Corp.	31029256450000	Mathis 1	2/2/2009	3/13/2009
North Collins	U S Energy Development Corp.	31029256460000	Haberer 2	5/4/2009	
North Collins	U S Energy Development Corp.	31029256480000	North Collins Tree Farm Unit 1	5/11/2009	7/27/2009
North Collins	U S Energy Development Corp.	31029256810000	Andolina 2	4/29/2009	8/27/2009
North Collins	U S Energy Development Corp.	31029256820000	Niefer 1	12/23/2009	3/1/2010
North Collins	U S Energy Development Corp.	31029256840001	McMahon 1	8/6/2009	1/22/2010
North Collins	U S Energy Development Corp.	31029257140000	Rinard 1	2/12/2009	7/31/2009
North Collins	U S Energy Development Corp.	31029257400000	Gates 1	3/12/2009	3/30/2009
North Collins	U S Energy Development Corp.	31029257420000	Hirsch 1	3/16/2009	
North Collins	U S Energy Development Corp.	31029257420001	Hirsch 1	12/18/2009	
North Collins	U S Energy Development Corp.	31029258790000	Lewandowski 1	2/19/2009	
North Collins	U S Energy Development Corp.	31029258790001	Lewandowski 1	12/23/2009	2/20/2010
North Collins	U S Energy Development Corp.	31029258840001	Clark 16	4/9/2009	
North Collins	U S Energy Development Corp.	31029258840002	Clark 16	12/23/2009	
North Collins	U S Energy Development Corp.	31029258900000	Lewandowski 2	5/27/2009	
North Collins	U S Energy Development Corp.	31029258900001	Lewandowski 2	12/17/2009	2/20/2010
North Collins	U S Energy Development Corp.	31029259460000	Legierski 1	4/6/2009	7/13/2009
North Collins	U S Energy Development Corp.	31029259490000	Bayerl 4	4/13/2009	
North Collins	U S Energy Development Corp.	31029259510000	Luther 1	4/6/2009	6/26/2009
Sardinia	Ardent Resources, Inc.	31029259650000	Spencer 1	4/29/2009	6/22/2009
Wales	U S Energy Development Corp.	31029252550001	Weber 1	4/2/2009	
Wales	U S Energy Development Corp.	31029256400000	Simons 2	1/21/2009	2/4/2009
Wales	U S Energy Development Corp.	31029256440000	Lane 2	5/11/2009	
Wales	U S Energy Development Corp.	31029256470001	Simons 3	8/12/2009	2/8/2010
Wales	U S Energy Development Corp.	31029256590000	Hudson 1	2/2/2009	
Wales	U S Energy Development Corp.	31029256590001	Hudson 1	12/18/2009	4/1/2010
Wales	U S Energy Development Corp.	31029256600001	Hudson 2	12/18/2009	1/25/2010
Wales	U S Energy Development Corp.	31029257010000	Pitkin 1	5/7/2009	11/6/2009
Wales	U S Energy Development Corp.	31029257020000	Penfold 1	3/6/2009	3/24/2009
Wales	U S Energy Development Corp.	31029257030000	Penfold 3	3/6/2009	3/24/2009
Wales	U S Energy Development Corp.	31029257060000	Mahar 1	2/11/2009	3/11/2009
Wales	U S Energy Development Corp.	31029257180000	Bauer 1	1/7/2009	3/16/2009
Wales	U S Energy Development Corp.	31029257190001	Brachmann 1	10/14/2009	10/30/2009
Wales	U S Energy Development Corp.	31029257200000	Kirsch 1	3/12/2009	3/30/2009
Wales	U S Energy Development Corp.	31029257270000	Winch 2	3/12/2009	3/30/2009
Wales	U S Energy Development Corp.	31029257280000	Seifert 1	3/4/2009	3/24/2009
Wales	U S Energy Development Corp.	31029257290000	Penfold 2	3/6/2009	3/23/2009
Wales	U S Energy Development Corp.	31029257300000	Keem 2	3/12/2009	3/30/2009
Wales	U S Energy Development Corp.	31029257310000	Eddy 1	3/12/2009	3/30/2009

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Town	Company	API Number	Well Name	Issue Date	Spud Date
Erie					
Wales	U S Energy Development Corp.	31029257780000	Ball 2	3/12/2009	3/30/2009
Wales	U S Energy Development Corp.	31029257790000	Seifert 3	3/12/2009	3/31/2009
Wales	U S Energy Development Corp.	31029258800000	Monheim 2	3/12/2009	3/30/2009
Wales	U S Energy Development Corp.	31029258860000	Keem 5	2/26/2009	3/16/2009
Wales	U S Energy Development Corp.	31029258910000	Seifert Unit 2	7/15/2009	8/19/2009
Wales	U S Energy Development Corp.	31029259160000	Pitkin 4	3/11/2009	3/31/2009
Wales	U S Energy Development Corp.	31029259180000	Kopp 3	5/7/2009	6/18/2009
Wales	U S Energy Development Corp.	31029259190000	Marshall 1	3/18/2009	3/25/2009
Wales	U S Energy Development Corp.	31029259450000	Decker 1	5/7/2009	
Wales	U S Energy Development Corp.	31029259450001	Decker 1	12/23/2009	12/18/2009
Wales	U S Energy Development Corp.	31029275040000	McGiveron 1	9/17/2009	3/17/2010
Wales	U S Energy Development Corp.	31029275100000	Mann 1	8/4/2009	
Wales	U S Energy Development Corp.	31029275110000	Jackson 1	9/10/2009	3/2/2010
Wales	U S Energy Development Corp.	31029275120000	Marshall 2	8/13/2009	10/6/2009
Wales	U S Energy Development Corp.	31029275130000	Marshall 3	8/13/2009	10/20/2009
Wales	U S Energy Development Corp.	31029275150000	Keem 3	9/10/2009	3/4/2010
Genesee					
Darien	New York Gas & Oil Co, Inc.	31037261770000	Burkhardt 2	11/27/2009	12/4/2009
Darien	New York Gas & Oil Co, Inc.	31037262250000	Hoskyns 1	10/22/2009	2/22/2010
Darien	New York Gas & Oil Co, Inc.	31037262260000	Hoskyns 2	10/22/2009	
Darien	Alden Aurora Gas Co., Inc.	31037263640000	Meides 1	5/11/2009	
Pembroke	Frey Well Drilling, Inc.	31037263130000	Chittenden 2	4/6/2009	6/22/2009
Pembroke	Frey Well Drilling, Inc.	31037263140000	Mroz 1	4/6/2009	7/10/2009
Livingston					
Livonia	U S Energy Development Corp.	31051263530000	Willard 1	4/8/2009	
Livonia	U S Energy Development Corp.	31051263580000	Panipinto 3	4/8/2009	
Livonia	U S Energy Development Corp.	31051263590000	Van Zandt 1	4/8/2009	
Livonia	U S Energy Development Corp.	31051263610000	Peck 1	4/8/2009	
Madison					
Lebanon	Norse Energy Corp USA	31053239400001	Keller 1	12/8/2009	12/9/2009
Lebanon	Norse Energy Corp USA	31053262800000	Sawyer, H. 1H	7/23/2009	12/9/2009
Lebanon	Norse Energy Corp USA	31053262830100	Bramburger, C. 2HA	6/4/2009	6/4/2009
Lebanon	Norse Energy Corp USA	31053263020000	Joseph, J. 1H	1/13/2009	2/15/2009
Lebanon	Norse Energy Corp USA	31053263050000	Crouch, C. 4H	1/13/2009	3/6/2009
Lebanon	Norse Energy Corp USA	31053263500000	Bramburger, C. 3H	6/22/2009	11/20/2009
Lebanon	Norse Energy Corp USA	31053264420000	Vanech 1H	12/29/2009	
Otsego					
Cherry Valley	Covalent Energy Corporation	31077237820000	Fermily Corporation 1	6/1/2009	
Cherry Valley	Covalent Energy Corporation	31077237840000	Sheckells 2	6/1/2009	
Maryland	GASTEM USA Inc.	31077237830000	Ross 1	6/1/2009	8/28/2009
Schuyler					

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Town	Company	API Number	Well Name	Issue Date	Spud Date
Schuyler					
Reading	US Salt LLC	31097125480001	Well 55	9/17/2009	9/29/2009
Reading	Finger Lakes LPG Storage, LLC	31097214670001	Fee 58	10/6/2009	10/7/2009
Reading	US Salt LLC	31097612030001	Well 47	9/17/2009	9/17/2009
Reading	Inergy Midstream, LLC	31097612080001	Well 52	11/6/2009	11/7/2009
Seneca					
Fayette	Chesapeake Appalachia, L.L.C.	31099262550000	Hartman 5 (627074)	3/5/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262560000	Hartman 6 (627075)	3/5/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262570000	Hartman 4 (627073)	3/20/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262840000	Jensen 1 (626394)	1/16/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262850000	Partee 1 (627270)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262880000	Martin 4 (626998)	1/16/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262900000	Martin 21 (627500)	1/16/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262950000	Martin 23 (627515)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262960000	Freier 1 (627208)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262970000	Freier 2 (627207)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262980000	Freier 1 (627212)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099262990000	Freier 2 (627211)	1/8/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099263080000	Poormon, H. 4 (627214)	1/15/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099263390000	Lott 4 (627570)	3/6/2009	
Fayette	Chesapeake Appalachia, L.L.C.	31099263450000	Martin 20 (627320)	3/5/2009	
Fayette	Rasmussen's Energy Inc.	31099263700000	Rebecca 6	7/30/2009	9/24/2009
Fayette	Rasmussen's Energy Inc.	31099263710000	Rebecca 5	7/30/2009	9/10/2009
Varick	Chesapeake Appalachia, L.L.C.	31099263110000	Martin 8 (627274)	1/13/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263120000	Martin 7 (627275)	1/13/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263190000	Martin 9 (627273)	1/26/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263210000	Martin 11 (627277)	1/26/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263260000	Smoker 4 (627567)	2/20/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263270000	Smoker 5 (627568)	2/20/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263370000	Martin, L 6 (627269)	2/20/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263430000	Dickenson, D. 1 (627574)	3/12/2009	
Varick	Chesapeake Appalachia, L.L.C.	31099263440000	Martin, L. 2 (627573)	3/6/2009	
Steuben					
Bath	Arlington Storage Company, LLC	31101083480001	Sylvania 1	3/17/2009	
Bath	Arlington Storage Company, LLC	31101095820001	Mullins 1	3/17/2009	
Bath	Arlington Storage Company, LLC	31101260900100	Mullins 03	5/1/2009	5/6/2009
Bath	Arlington Storage Company, LLC	31101260900200	Mullins 03A	12/31/2009	12/31/2009
Bath	Arlington Storage Company, LLC	31101260910001	Mullins 02	4/16/2009	
Bath	Arlington Storage Company, LLC	31101263630000	Mullins 10	5/12/2009	5/21/2009
Bath	Arlington Storage Company, LLC	31101263720000	Mullins 09	6/5/2009	7/19/2009
Bath	Arlington Storage Company, LLC	31101263730000	Mullins 11	6/5/2009	6/16/2009
Bath	Arlington Storage Company, LLC	31101263730100	Mullins 11-A	7/13/2009	7/13/2009

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Town	Company	API Number	Well Name	Issue Date	Spud Date
Steuben					
Bath	Arlington Storage Company, LLC	31101263740000	Mullins 07	6/5/2009	8/17/2009
Bath	Arlington Storage Company, LLC	31101263740100	Mullins 07-A	9/4/2009	9/8/2009
Bath	Arlington Storage Company, LLC	31101264120000	Mullins 09-04	9/15/2009	9/19/2009
Bath	Arlington Storage Company, LLC	31101264240000	Mullins 06	10/16/2009	10/22/2009
Bath	Arlington Storage Company, LLC	31101264240100	Mullins 06-A	11/5/2009	11/10/2009
Bath	Arlington Storage Company, LLC	31101264400000	Mullins 05	11/17/2009	11/21/2009
Bath	Arlington Storage Company, LLC	31101264400100	Mullins 05-A	12/4/2009	12/9/2009
West Union	Yahn & Yahn Inc.	31101263760000	Schultz 5A	6/30/2009	7/13/2009
West Union	Nathan Petroleum Corp.	31101263850000	Edlind 1	7/6/2009	7/21/2009
Wheeler	Chesapeake Appalachia, L.L.C.	31101263000000	Price 1H (626945)	2/10/2009	
Tioga					
Nichols	MegaEnergy Operating Inc.	31107263750000	Berry 1	6/4/2009	6/22/2009
Owego	MegaEnergy Operating Inc.	31107262210000	MKM Farms 1	1/8/2009	
Owego	MegaEnergy Operating Inc.	31107264170000	Eaton 1A	10/7/2009	10/29/2009
Owego	MegaEnergy Operating Inc.	31107264260000	Eaton 2	10/27/2009	11/8/2009
Wayne					
Butler	Aspect Energy, LLC	31117264250000	Everhart, B. 1H	11/12/2009	11/30/2009
Wyoming					
Arcade	Stedman Energy, Inc.	31121255690000	Maple Grove 1	4/15/2009	5/18/2009
Arcade	Ardent Resources, Inc.	31121275260000	Degenfelder 1	10/30/2009	
Arcade	Ardent Resources, Inc.	31121275270000	Horschel 1	10/30/2009	11/18/2009
Arcade	Ardent Resources, Inc.	31121275400000	Springdale 1	11/25/2009	4/22/2010
Attica	JOG Corporation	31121256540000	Merkle W 1	2/20/2009	6/15/2009
Middlebury	Texas Brine Company, LLC	31121258130000	Texas Brine Company 94	3/12/2009	6/2/2009
Middlebury	Texas Brine Company, LLC	31121258140000	Texas Brine Company 95	3/12/2009	6/15/2009
Middlebury	Texas Brine Company, LLC	31121258150000	Texas Brine Company 96	3/12/2009	6/15/2009

Drilled Wildcats and Field Extensions, 2009

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Broome County								
Vestal	MegaEnergy Operating Inc.	31007261560000	Herceg 1	4,892	6/10/2009	GW	New Field Wildcat	Oriskany
Cattaraugus County								
East Otto	U S Energy Development Corp.	31009248170002	Race 1	2,284	3/19/2009	GW	East Otto	Hamilton
Napoli	PC Exploration, Inc.	31009254590002	Adams/Raber 1B	4,241	3/26/2009	GW	New Field Wildcat	Onondaga
Cayuga County								
Victory	Lenape Resources, Inc.	31011263490000	Southwick 1	3,700	4/15/2009	GW	New Field Wildcat	Potsdam
Chautauqua County								
Charlotte	U S Energy Development Corp.	31013150260001	Bender 1	3,419	11/9/2009	GW	New Field Wildcat	Marcellus
Ellery	Unbridled Energy NY LLC	31013257370001	Miller 2	0	8/12/2009	GW	New Field Wildcat	Potsdam
Pomfret	U S Energy Development Corp.	31013249340002	Renswick 2B	2,625	7/21/2009	GW	Lakeshore	Medina
Chemung County								
Horseheads	Anschutz Exploration Corporation	31015263040000	Ruger 1	9,303	5/15/2009	GW	New Field Wildcat	Black River
Chenango County								
Plymouth	Norse Energy Corp USA	31017263410000	Slater 1H	3,576	9/29/2009	GW	New Field Wildcat	Herkimer
Plymouth	Norse Energy Corp USA	31017263770000	Beckwith, S. 2H	3,535	10/26/2009	GW	New Field Wildcat	Herkimer
Smyrna	Nornew, Inc.	31017262660000	Davis, C. 2H	3,085	1/6/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017262680000	Corey 2H	2,722	1/1/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017262700000	Farrow, B. 1H	2,898	2/6/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017262940000	Sweezy, J. 1H	2,797	3/24/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017263100000	Ingerto 1H	3,536	9/2/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017263290000	Ingerto, J. 2H	3,405	7/12/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017263330000	Nelson 1H	3,267	8/13/2009	GW	New Field Wildcat	Herkimer
Smyrna	Norse Energy Corp USA	31017263420000	Parry 1H	3,413	9/15/2009	GW	New Field Wildcat	Herkimer

Drilled Wildcats and Field Extensions, 2009

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Chenango County								
Smyrna	Norse Energy Corp USA	31017264130000	Khoury, M. 1H	3,748	11/15/2009	GW	New Field Wildcat	Herkimer
Cortland County								
Cortlandville	Anschutz Exploration Corporation	31023262670000	Nael Cam Farms 1	7,076	2/27/2009	GW	New Field Wildcat	Black River
Virgil	Chesapeake Appalachia, L.L.C.	31023263240000	Van Donsel 1 (627154)	7,055	11/21/2009	GW	New Field Wildcat	Trenton
Erie County								
Boston	U S Energy Development Corp.	31029257000000	Dollman 1	0	8/12/2009	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029252750000	Timmel 5	2,862	7/31/2009	GW	New Field Wildcat	Medina
Collins	U S Energy Development Corp.	31029256520000	Palen 2	0	4/23/2009	GW	New Field Wildcat	Medina
Sardinia	Ardent Resources, Inc.	31029259650000	Spencer 1	6,066	7/6/2009	GW	New Field Wildcat	Little Falls
Wales	U S Energy Development Corp.	31029256390000	Simons 1	0	6/9/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256400000	Simons 2	0	6/17/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256580000	Keem 1	2,325	2/6/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256730000	Kopp 1	0	6/10/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256740000	Pitkin 2	2,241	7/14/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256760000	Pitkin 5	0	4/28/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029256770000	Pitkin 6	0	5/15/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257020000	Penfold 1	0	4/9/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257030000	Penfold 3	0	4/29/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257050000	Keem 4	2,011	1/28/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257060000	Mahar 1	0	5/6/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257180000	Bauer 1	2,142	4/1/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257190001	Brachmann 1	2,612	11/12/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257200000	Kirsch 1	0	4/21/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257210000	Kirsch 2	0	7/30/2009	GW	New Field Wildcat	Medina

Drilled Wildcats and Field Extensions, 2009

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Erie County								
Wales	U S Energy Development Corp.	31029257220000	Monheim 1	0	7/27/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257230000	Tober 1	2,538	9/25/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257270000	Winch 2	0	8/14/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257280000	Seifert 1	0	8/5/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257290000	Penfold 2	2,106	4/21/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257300000	Keem 2	2,430	5/15/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257780000	Ball 2	0	11/23/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029257790000	Seifert 3	0	8/18/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029258800000	Monheim 2	2,575	9/4/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029258860000	Keem 5	0	5/28/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029259190000	Marshall 1	0	10/2/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029259450001	Decker 1	2,175	12/31/2009	GW	New Field Wildcat	Medina
Wales	U S Energy Development Corp.	31029275130000	Marshall 3	2,404	10/29/2009	GW	New Field Wildcat	Medina
Madison County								
Lebanon	Norse Energy Corp USA	31053239400001	Keller 1	3,064	12/9/2009	GW	New Field Wildcat	Herkimer
Lebanon	Norse Energy Corp USA	31053262830000	Bramburger, C. 2H	2,358	2/17/2009	GE	Bradley Brook	Herkimer
Lebanon	Norse Energy Corp USA	31053262830100	Bramburger, C. 2HA	2,348	6/8/2009	GE	Bradley Brook	Herkimer
Lebanon	Norse Energy Corp USA	31053263020000	Joseph, J. 1H	2,656	5/26/2009	GW	New Field Wildcat	Herkimer
Lebanon	Norse Energy Corp USA	31053263050000	Crouch, C. 4H	2,515	6/14/2009	GW	New Field Wildcat	Herkimer
Lebanon	Norse Energy Corp USA	31053263500000	Bramburger, C. 3H	2,392	12/2/2009	GE	Bradley Brook	Herkimer
Otsego County								
Maryland	GASTEM USA Inc.	31077237830000	Ross 1	4,950	10/2/2009	GW	Not Applicable	Utica
Tioga County								
Candor	Talisman Energy USA Inc.	31107261650000	Hull 1	9,747	1/3/2009	GW	New Field Wildcat	Black River

Drilled Wildcats and Field Extensions, 2009

Town	Company	API Number	Well Name	TVD	Total Depth Date	Orig Well Type	Field	Objective Formation
Tioga County								
Nichols	MegaEnergy Operating Inc.	31107263750000	Berry 1	4,806	6/26/2009	GW	New Field Wildcat	Oriskany
Owego	MegaEnergy Operating Inc.	31107264170000	Eaton 1A	4,896	11/4/2009	GW	New Field Wildcat	Oriskany
Owego	MegaEnergy Operating Inc.	31107264260000	Eaton 2	4,518	11/14/2009	GW	New Field Wildcat	Oriskany
Wayne County								
Butler	Aspect Energy, LLC	31117264250000	Everhart, B. 1H	2,691	12/20/2009	GW	Millpond	Trenton
Wyoming County								
Arcade	Stedman Energy, Inc.	31121255690000	Maple Grove 1	6,447	6/2/2009	GW	New Field Wildcat	Theresa
Attica	JOG Corporation	31121256540000	Merkle W 1	1,430	7/24/2009	GW	New Field Wildcat	Marcellus

**New York State
Oil, Gas and Mineral Resources
2009**

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 2009¹ A-1

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

Mined Land Permits Issued During 2009

1/5/2010

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Albany							
Berne	Heldeberg Bluestone & Marble I	MINE	40806	Grippy Quarry	6/25/2009	Renewal	30.0
Coeymans	Lafarge Building Materials Inc	MINE	40032	Ravena Quarry	12/10/2009	Modification	768.0
Colonie	Constantine Construction & Far	MINE	40420	Constantine Construction	2/12/2009	Renewal	6.2
Guilderland	Pustolka, Thomas Jr	MINE	40315	Pustolka Pit	3/9/2009	Renewal	10.5
Allegany							
Amity	Belmont, Village of	MINE	90696	Wastewater Treatment Plant Gravel Bar	3/30/2009	Renewal	1.0
Clarksville	Lafever & Sons	MINE	90587	Lafever And Sons Gravel Pit	1/12/2009	Renewal	5.0
Cuba	Ungermann Excavating Inc	MINE	90512	Spring Valley Mine	5/26/2009	Renewal	14.0
Genesee	Bolivar, Town of	MINE	90011	Boliver Gravel Pit	3/25/2009	Renewal	8.0
Hume	Route 19 Gravel & Associates	MINE	91006	Rt. 19 Gravel Pit	3/13/2009	New	1.0
New Hudson	New Hudson, Town of	MINE	90487	New Hudson Gravel Pit	1/29/2009	Renewal	1.0
Scio	Potter, James L dba RS Potter	MINE	90104	R.S. Potter And Son Gravel Mine	3/17/2009	Renewal	3.0
Ward	Borer, John	MINE	90714	Belmont Gravel Pit	12/31/2009	Modification	7.0
Willing	Earl F Dean Inc	MINE	90105	Willing Twp Pit	7/21/2009	Renewal	41.0
Broome							
Fenton	Burton F Clark Inc	MINE	70639	Rte 369 Mine	1/30/2009	Renewal	40.0
Sanford	Devonian Stone Of New York In	MINE	70830	Amendola Bluestone Quarry	12/21/2009	Modification	9.8
Sanford	Hubbell, Harold K	AUTH	70942	Hubbell Quarry	8/19/2009	Renewal	1.0
Sanford	Simply Stone LLC	MINE	70909	Struble Quarry #1	1/29/2009	New	5.0
Windsor	Balducci, J Nicholas	MINE	70897	PA Stone Products Quarry #1	11/30/2009	New	5.0
Windsor	Keystone Bluestone Inc	AUTH	70944	State Line Road Quarry	8/6/2009	Renewal	1.0
Windsor	Timberland Resources LLC	AUTH	70939	Root Quarry	7/23/2009	Renewal	1.0
Windsor	Timberland Resources LLC	AUTH	70943	Anne Road Quarry	8/20/2009	Renewal	1.0
Cattaraugus							
Carrollton	Duffy Inc & Caskey, James J	MINE	90516	Caskey Sand And Gravel Mine	5/15/2009	Renewal	2.0
Conewango	Country Side Sand & Gravel Inc	MINE	90613	Yoder Gravel Pit	6/3/2009	Renewal	14.0
Conewango	Howe, Dennis	MINE	90908	Miller Pit	6/30/2009	Renewal	1.5
Dayton	Hanson Aggregates New York L	MINE	90002	South Dayton - Wesley	7/7/2009	Modification	1.0
Ellicottville	Cold Spring Construction Co	MINE	90282	C.H. Gravel Pit	4/15/2009	Modification	2.5
Ischua	Ischua, Town of	MINE	90544	Kellner Pit	3/9/2009	Renewal	4.0
Machias	Machias, Town of	MINE	90303	Machias Gravel Pit #1	10/22/2009	Renewal	13.0
Napoli	Mack Enterprises LLC	MINE	90701	Mack Enterprises Gravel Pit	12/16/2009	Renewal	3.0
Persia	Smith, Dale R	MINE	90698	D. R. Smith	10/19/2009	Renewal	2.0

Mined Land Permits Issued During 2009

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Cattaraugus							
Randolph	Beaver, Donald	MINE	90250	Donald Beaver Gravel Pit	7/6/2009	Renewal	13.3
Yorkshire	Glacial Aggregates LLC	MINE	90663	Delevan Mine	11/6/2009	Renewal	20.0
Cayuga							
Brutus	Weedsport, Village of	MINE	70957	Hart Mine	8/19/2009	New	1.0
Genoa	Caitlin Julia Enterprises LLC D	MINE	70413	Genoa Sand And Gravel - Indian Field	1/27/2009	Modification	18.0
Genoa	Reeves, Coral	MINE	70948	Coral Reeves Mine #1	6/10/2009	New	3.3
Genoa	Reeves, Coral	MINE	70948	Coral Reeves Mine #1	9/1/2009	Modification	3.3
Locke	H L Robinson Sand & Gravel In	MINE	70738	Mine 2 - NYS Route 38	9/1/2009	Modification	42.0
Locke	Metzgar Mining Co LLC	MINE	70432	Lewbro Mine #1 - NYS Route 38	8/10/2009	Modification	46.0
Moravia	Suit-Kote Corp	MINE	70530	Moravia Mine - Route 38-A	12/3/2009	Renewal	12.1
Sennett	Perry, Grant L	MINE	70712	Rolling Hills Pond Sand And Gravel Ba	11/25/2009	Modification	24.4
Sennett	Robinson Concrete Inc	MINE	70006	Franklin St Pit - Franklin St. Road	1/29/2009	Modification	40.8
Sennett	Still Meadow Nursery Inc	MINE	70805	Scholte Mine #3 - Depot Road	8/28/2009	Modification	7.8
Springport	Hanson Aggregates New York L	MINE	70025	Oakwood Quarry	7/7/2009	Modification	44.1
Springport	Hanson Aggregates New York L	MINE	70025	Oakwood Quarry	10/29/2009	Renewal	44.1
Chautauqua							
Carroll	Glenn O Hawbaker Inc	MINE	90328	Frew Run Gravel Pit	2/23/2009	Modification	21.0
Carroll	Maple Grove Farms	MINE	90325	Maple Grove Farms Mine	6/30/2009	Modification	4.0
Carroll	Tri-James Services Inc	MINE	90411	Cameron Mine	2/11/2009	Renewal	18.0
Charlotte	Lebaron, Teddy & Beverly	MINE	90720	Snobelt Farms Gravel Mine	5/26/2009	Renewal	6.0
Chautauqua	Eimers, Lawrence/Elenore	MINE	90304	A. Kopta's Farm	3/10/2009	Renewal	12.0
Chautauqua	L W Parker Enterprises Inc	MINE	90378	Perry Site	6/16/2009	Renewal	5.7
Clymer	Briggs, Scott	MINE	90530	Briggs Mine	6/12/2009	Renewal	8.0
Clymer	Tewinkle, Tracy	MINE	90510	Tewinkle Pit	2/9/2009	Renewal	7.0
Dunkirk	Country Side Sand & Gravel Inc	MINE	90661	Bull Property	6/10/2009	Modification	6.0
Ellington	Desborough, Philip A	MINE	90217	Ellington Gravel Products	5/15/2009	Renewal	1.0
French Creek	Caflisch Lumber Co	MINE	90224	Caflisch Gravel Pit #1	4/23/2009	Renewal	4.0
Gerry	Tri-James Services Inc	MINE	90262	Maloy Farm Gravel Mine	1/29/2009	Renewal	83.0
Mina	French Creek, Town of	MINE	90538	D. Whitney Mine	11/16/2009	Renewal	4.0
North Harmony	Chautauqua County DPW	MINE	90287	Aber Pit	10/16/2009	Renewal	20.0
Portland	Benchley, C Robert	MINE	90435	Benchley Pits #1 & #2	5/6/2009	Renewal	17.0
Villanova	Pacos, David J	MINE	90407	Rock Ridge Mine	1/23/2009	Renewal	4.5
Villanova	Taylor, Warren L	MINE	90919	Warren Taylor Gravel Pit	12/4/2009	Renewal	2.5

Mined Land Permits Issued During 2009

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Chemung							
Chemung	Porter's Concrete Service Inc	MINE	80647	Chemung Mine (Pit #5)	2/3/2009	Renewal	21.8
Horseheads	Cold Spring Construction Co	MINE	80833	Rosark Farm Development	11/18/2009	New	29.5
Horseheads	Hanson Aggregates New York L	MINE	80032	Horseheads	7/7/2009	Modification	9.2
Southport	John F & John P Wenzel Contra	MINE	80065	Wenzel Pit	3/9/2009	Renewal	14.3
Van Etten	Van Etten, Town of	MINE	80834	Pompa's Mine	5/13/2009	New	9.5
Chenango							
Afton	Alfred Gorick Co Inc	MINE	70524	Hastings #1 mine	1/29/2009	Modification	32.5
Greene	County Line Gravel Company In	MINE	70224	County Line Gravel Bed	8/18/2009	Renewal	21.0
Greene	Kahn, Leo B	MINE	70552	Brisben Mine	1/20/2009	Modification	24.0
Greene	Tri-City Highway Products Inc	MINE	70395	Brisben Mine	8/6/2009	Modification	28.1
Guilford	E & R Pope's Excavating LLC	MINE	70026	NYS Route 8 Pit	9/2/2009	Renewal	19.0
New Berlin	New Berlin, Town of - Highway	MINE	70068	Town Gravel Pit, Angell Road	11/4/2009	Renewal	20.0
Otselic	Otselic, Town of	MINE	70822	Otselic Gravel Pit	4/6/2009	Renewal	6.0
Pitcher	Rasmussen Gravel Products LL	MINE	70604	Tanis Mine- County Road #11	10/1/2009	Renewal	13.0
Clinton							
Altona	Deyo, Todd E	MINE	50948	Deyo Mine-Altona	6/23/2009	Renewal	25.6
Ausable	Jay, Town of	MINE	50299	Harkness Pit	5/27/2009	Renewal	4.9
Beekmantown	Beekmantown, Town of	MINE	50403	Town of Beekmantown Gravel Mine	12/11/2009	Renewal	16.7
Champlain	Bedard, Arthur	MINE	51004	Bedard Mine	2/19/2009	Modification	5.0
Chazy	Lake City Gravel Inc	MINE	50389	Macadam Road Gravel Pit	12/17/2009	Modification	10.0
Ellenburg	Seaway Timber Harvesting Inc	MINE	50947	Ellenburg Decorative Stone Mine	1/7/2009	New	16.5
Mooers	Graymont Materials NY Inc	MINE	50798	Mooers Stone Products Quarry #1	7/2/2009	Renewal	23.0
Mooers	J E Sheehan Contracting Corp	MINE	50992	Cannon Corners Pit	4/20/2009	Modification	50.0
Mooers	Pinsonneault, Timothy	MINE	51017	Big Hill Road North Sand Mine	10/5/2009	New	1.3
Mooers	Rabideau Brothers Excavating L	MINE	50958	Rabideau Bros. Excavating	11/24/2009	New	4.0
Peru	Peru, Town of	MINE	50421	Everett Gravel Pit	12/6/2009	Renewal	13.0
Peru	Rushford, Douglas d/b/a/ Rushf	MINE	50951	Peasleeville Road Pit	8/25/2009	Renewal	9.4
Plattsburgh	Baker, Norman E	MINE	50518	Norm Baker Pit	10/26/2009	Modification	16.8
Plattsburgh	Graymont Materials NY Inc	MINE	50062	Plattsburgh Quarry	1/26/2009	Renewal	121.0
Plattsburgh	Graymont Materials NY Inc	MINE	50452	Gratto Pit	11/12/2009	Modification	39.6
Saranac	Saranac, Town of	MINE	50934	Nashville Road Pit	5/6/2009	Renewal	8.1
Schuyler Falls	Don Jerry X-Plo Inc	MINE	50646	X-Plo Sand & Gravel	6/8/2009	Renewal	4.0
Schuyler Falls	Graymont Materials NY Inc	MINE	50026	Morrisonville Pit	1/15/2009	Renewal	135.0

Mined Land Permits Issued During 2009

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Clinton							
Schuyler Falls	Ormsby, Joseph	MINE	50814	Christon Sand Mine	5/27/2009	Modification	13.0
Schuyler Falls	Rushford, Douglas d/b/a/ Rushf	MINE	50398	Site 2	8/18/2009	Renewal	26.6
Schuyler Falls	Schuyler Falls, Town of	MINE	50760	Town of Schuyler Falls Gravel Mine	12/7/2009	Renewal	22.8
Schuyler Falls	Way, Harold L	MINE	50376	Rock Pit	7/24/2009	Renewal	16.0
Columbia							
Claverack	Gromax LLC	MINE	40688	Hess Farm/Roxbury Rd Mine	3/19/2009	Renewal	6.0
Claverack	John A Alvarez & Sons Inc	MINE	40485	Orchard Road Pit	3/2/2009	Modification	11.4
Gallatin	Gromax LLC	MINE	40799	Vita Pond	5/12/2009	Renewal	6.8
Gallatin	Vaill, Lloyd	MINE	40544	Vaill Mine	5/15/2009	Renewal	14.4
Greenport	Colarusso & Son, Inc.	MINE	40020	Colarusso Quarry - Newman Rd.	4/3/2009	Renewal	77.0
Greenport	Holcim US Inc	MINE	40081	Hudson Quarry	1/22/2009	Renewal	281.0
Greenport	Scott & Theresa LLC	MINE	40595	Bryant Farms Pit	8/26/2009	Modification	14.5
Livingston	MCR Sand & Gravel Inc	MINE	40321	Lynks Gravel Bank	1/9/2009	Renewal	26.0
Livingston	Shapiro, Robert	MINE	40414	Elizaville Pit	4/10/2009	Renewal	30.9
Cortland							
Cincinnatus	Taylor Valley Gravel Products	MINE	70794	Crane Farm Mine	3/25/2009	New	9.0
Harford	Cortland County Highway Dept	MINE	70444	Kimmich Pit - NYS Route 38	9/23/2009	Renewal	12.0
Delaware							
Davenport	Brandow Enterprises	MINE	40530	Brandow Gravel Bank	8/4/2009	Modification	9.6
Davenport	Harpersfield, Town of	MINE	40410	Brandow Pit	6/2/2009	Renewal	7.0
Delhi	Clark Companies	MINE	40804	Rockefeller Gravel Mine	7/1/2009	Renewal	6.0
Delhi	Delaware Bulldozing Corp	MINE	40594	Rama Pit One	1/14/2009	Renewal	17.2
Deposit	Brainard, David L	MINE	40871	Brainard Bluestone Mine	3/23/2009	New	8.9
Deposit	RCS, LLC	MINE	40864	Schaefer Exploration	6/18/2009	Renewal	1.0
Hamden	Griffin, Jody & Joel / J & J Blue	MINE	40845	Giordano/Lombardi Authorization	7/2/2009	New	3.0
Hancock	Colchester, Town of	MINE	40477	Cochester Gravel Bank	9/3/2009	Renewal	8.5
Hancock	Johnston & Rhodes Bluestone C	MINE	40756	Mcbride / Yarrish Quarry	12/16/2009	Renewal	3.8
Hancock	Tompkins Bluestone Co Inc	MINE	40816	Franklin Square Hunting Club Quarry	12/22/2009	Renewal	5.0
Kortright	Kortright, Town of	MINE	40290	Kelly Gravel Bank	9/9/2009	Modification	8.0
Masonville	Barnes, David	MINE	40743	Masonville Quarry	8/27/2009	Renewal	20.5
Middletown	Josh Construction Inc	MINE	40794	Josh Construction Sand & Gravel Bank	8/4/2009	Renewal	4.8
Part	Banker, Arnold L	MINE	40603	Banker Gravel Bank	3/18/2009	Renewal	10.0
Roxbury	Roxbury, Town of	MINE	40338	Rodrigues Gravel Mine	8/4/2009	Renewal	13.0

Mined Land Permits Issued During 2009

1/5/2010

Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Delaware							
Stamford	Lafever Excavating Inc	MINE	40305	Hobart Pit - Jas Robbins Property	6/25/2009	Renewal	6.8
Tompkins	Kamp, Fannie E	MINE	40732	Sands Creek Quarry	3/12/2009	Modification	7.0
Tompkins	Stafford, Michael	MINE	40846	Williams Bluestone Mine	9/10/2009	Modification	4.3
Tompkins	Tompkins Bluestone Co Inc	MINE	40741	Dry Brook Stone & Timber/Borchert Q	2/4/2009	Renewal	6.0
Walton	Walton, Town of	MINE	40802	Kilmer Gravel Mine	3/19/2009	Renewal	7.9
Dutchess							
Dover	Danny Fortune & Co Inc	MINE	30617	Dover Industrial Park	12/18/2009	Modification	14.0
East Fishkill	GRB LLC	MINE	30156	East Fishkill Operations	7/8/2009	Renewal	15.0
Fishkill	Bent Wire Inc	MINE	30022	Southern Dutchess Sand & Gravel Mine	6/26/2009	Modification	46.0
Fishkill	West Hook Sand And Gravel Inc	MINE	30079	West Hook Sand And Gravel Mine	8/14/2009	Modification	125.0
Poughkeepsie	Tilcon New York Inc	MINE	30011	Clinton Point Quarry	8/1/2009	Modification	458.1
Rhinebeck	Kinlan, Vincent P	MINE	30393	White School House Rd. Mine	1/12/2009	Renewal	37.5
Washington	Kennels Road Development LL	MINE	30245	Rally Farms	11/16/2009	Renewal	17.2
Erie							
Collins	Dan Gernatt Asphalt Products In	MINE	90089	Vail Road	3/3/2009	Renewal	17.2
Concord	Cold Spring Construction Co	MINE	90125	Gentner Pit	3/26/2009	Modification	31.0
Concord	Gernatt Asphalt Products Inc	MINE	90369	Vaughn Deposit	4/30/2009	Modification	50.0
Concord	Hannon, Mike	MINE	90604	Sarcon Farms Gravel Pit	10/16/2009	Renewal	3.8
Concord	McCarthy, Joseph	MINE	90441	J & C McCarthy Gravel Mine	8/19/2009	Modification	2.0
Lancaster	Lafarge North America Inc	MINE	90595	Pavement East	11/30/2009	Renewal	29.0
Newstead	Frey, Joseph	MINE	90048	Hoffman, Sugg And Fidinger Pit	6/4/2009	Modification	101.0
Newstead	Frey, Joseph	MINE	90429	Billo Road Pit	6/4/2009	Modification	28.0
Sardinia	Gernatt Asphalt Products Inc	MINE	90099	Chaffee Plant	3/9/2009	Renewal	175.0
Sardinia	Waste Management of New Yor	MINE	90216	Chaffee Facility	6/8/2009	Renewal	7.0
Wales	Thorpe, Michael & Gayle	MINE	90423	Thorpe's Hillside Gravel	7/22/2009	Modification	26.6
Essex							
Crown Point	Adirondack Sand & Gravel	MINE	50113	Adirondack Sand And Gravel Pit	8/26/2009	Modification	13.0
Crown Point	Adirondack Sand & Gravel	MINE	50113	Adirondack Sand And Gravel Pit	10/29/2009	Modification	13.0
Crown Point	Rafferty, Glendon R	MINE	50735	Rafferty Sand And Gravel	10/7/2009	Renewal	9.0
Jay	Lake Placid Granite Co	MINE	50410	Green Quarry	9/28/2009	Modification	46.2
Lewis	Fields, Elaine C	MINE	50873	Fields Sand & Gravel Pit	8/5/2009	Renewal	6.9
Lewis	Graymont Materials NY Inc	MINE	50056	Lewis Quarry	3/19/2009	Renewal	61.9
Lewis	Graymont Materials NY Inc	MINE	50639	Hale Hill Mine	3/19/2009	Modification	11.9

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Essex							
Lewis	NYCO Minerals Inc	MINE	50111	Lewis Mine	12/22/2009	Renewal	89.9
Lewis	NYCO Minerals Inc	MINE	50803	Oak Hill Mine Site	12/3/2009	Renewal	127.0
Westport	John W Sheehan & Sons Inc	MINE	50611	Barber Sand And Gravel Pit	3/19/2009	Renewal	6.2
Willsboro	West, Douglas & Beulah	MINE	50774	Mabel's Pit	8/11/2009	Renewal	9.0
Wilmington	West, Douglas & Beulah	MINE	50937	Haselton Sand Pit	3/12/2009	Renewal	4.9
Franklin							
Altamont	Tupper Lake, Village of	MINE	50081	Tupper Lake Sand Pit	4/30/2009	Renewal	2.7
Bangor	Bangor, Town of	MINE	50627	Dyke Road Pit	2/9/2009	Renewal	5.4
Bellmont	Adirondack Quarry Inc	MINE	50415	North Adirondack Quarry	9/3/2009	Modification	11.0
Bellmont	Secore, Richard	MINE	50643	Secore Excavation Gravel Pit	10/5/2009	Renewal	9.0
Bellmont	Steven E Fuller Excavating Inc	MINE	50451	Carter Pit	4/20/2009	Renewal	8.0
Bombay	Paquin, Peter	MINE	50871	Paquin Cranberry Sand Pit	6/9/2009	Renewal	13.0
Brandon	Graymont Materials NY Inc	MINE	50358	Egan Pit	8/13/2009	Renewal	11.5
Burke	Burke, Town of	MINE	50498	Burke Gravel Pit	4/22/2009	Renewal	13.0
Burke	Johnston, James W	MINE	50883	Johnston Property	4/7/2009	Modification	19.0
Burke	Rainbow Quarries, Inc	MINE	50386	Rainbow Quarry	11/16/2009	Modification	15.0
Chateaugay	Collins, Patrick W	MINE	50668	Collins Construction Pit	6/9/2009	Renewal	5.5
Chateaugay	Collins, Patrick W	MINE	50668	Collins Construction Pit	8/22/2009	Modification	5.5
Chateaugay	Secore, Richard	MINE	50637	Secore Excavation Sand Pit	12/14/2009	Renewal	3.0
Constable	Constable, Town of	MINE	50497	Constable Sand Pit	2/18/2009	Renewal	4.5
Dickinson	Dickinson, Town of	MINE	50486	Town of Dickinson Gravel Pit	8/12/2009	Renewal	8.5
Dickinson	Mayville Enterprises Inc	MINE	50849	Bowers Gravel Pit	10/13/2009	Modification	4.0
Fort Covington	Fort Covington, Town of	MINE	50878	Quain Road Sand Pit	6/12/2009	Renewal	5.0
Malone	Graymont Materials NY Inc	MINE	50348	Degon Pit	2/18/2009	Renewal	14.0
Malone	Malone, Village of	MINE	50293	Lane Street Crusher Pit	1/21/2009	Modification	13.0
Malone	Titus Mountain Inc	MINE	50640	Titus Mountain Gravel Pit	7/3/2009	Modification	18.5
Moir	Russell, James J	MINE	50881	Russell Sand Pit	7/1/2009	Renewal	3.0
Westville	Constable, Town of	MINE	50496	Westville Pit	3/19/2009	Renewal	7.0
Westville	Fleury, Theresa & Tim	MINE	50563	Fleury Sand Pit	5/19/2009	Renewal	18.0
Westville	Stark, Judith A	MINE	50620	Stark's Gravel Pit	1/26/2009	Modification	61.2
Westville	Stark, Judith A	MINE	50620	Stark's Gravel Pit	11/16/2009	Modification	61.2
Westville	Stark, Judith A	MINE	51001	Little Briggs Pit	1/5/2009	Modification	14.3

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Fulton							
Ephratah	Carver Sand & Gravel LLC	MINE	50766	Don Baker Sand And Gravel Pit #1	6/17/2009	Modification	27.5
Ephratah	Gray, Bruce And Sara	MINE	50122	Grays Sand & Gravel	1/6/2009	Renewal	5.0
Johnstown	Delaney Crushed Stone Products	MINE	50515	Delaney Development Pit	12/21/2009	Renewal	13.0
Johnstown	Fulmont Ready Mix Co	MINE	50019	Fulmont Ready Mix Sand	2/6/2009	Renewal	37.3
Johnstown	Isabella, Daniel L	MINE	50546	Isabella Gravel Pit	12/11/2009	Renewal	8.0
Johnstown	Peck Associates & Wendell Tayl	MINE	50412	Peck Gravel Pit	9/1/2009	Renewal	1.8
Johnstown	Savage, Stephen	MINE	51011	LaGrange Pit	7/22/2009	New	4.4
Mayfield	Skiff, James	MINE	50571	Skiff's Dairy Pit	4/13/2009	Renewal	5.0
Oppenheim	Tiedman & Sons, George Db	MINE	50796	Nat. Resource Utilization & Mgt.	4/7/2009	Modification	7.1
Perth	Puthaven Farms	MINE	50605	Puthaven Farm Sand Pit	1/21/2009	Renewal	12.0
Genesee							
Alexander	Frey Concrete Inc	MINE	80061	Frey S & G	6/15/2009	Renewal	280.1
Batavia	Hanson Aggregates New York L	MINE	80095	St. John's Pit (Batavia Mine)	7/7/2009	Modification	112.7
Bethany	Lor-Rob Dairy Farm	MINE	80528	Marta	6/16/2009	New	5.0
Le Roy	Clark, Robert J	MINE	80377	Clark Marl Mine	6/3/2009	Renewal	12.3
Le Roy	Hanson Aggregates New York L	MINE	80073	Leroy Mine	7/7/2009	Modification	211.3
Stafford	Hanson Aggregates New York L	MINE	80075	Stafford Mine	7/7/2009	Modification	196.9
Greene							
Ashland	Ashland Sand & Gravel Inc	MINE	40162	Ashland Sand & Gravel	11/2/2009	Renewal	40.0
Athens	Orange County Trust Co.	MINE	40381	Valley Road Pit	1/8/2009	Modification	7.0
Catskill	Mower, Nancy	MINE	40415	Mclaren Road Pit	7/16/2009	Modification	10.5
Coxsackie	C L Stone LLC	MINE	40319	High Hill Quarry	12/31/2009	Modification	35.3
Coxsackie	Gary's Route 81 Stone Quarry In	MINE	40349	Gary's Route 81 Stone Quarry	12/2/2009	Renewal	15.0
Hunter	Burton F Clark Inc	MINE	40507	Kallman Pit	1/28/2009	Renewal	34.0
Hunter	Pierce, Jerry	MINE	40492	Scribner Hollow Road Bank	3/9/2009	Renewal	4.0
Jewett	I & O Slutzky Inc	MINE	40488	Rt. 296 Pit	12/23/2009	Renewal	5.0
Lexington	Rappleyea, Greg K	MINE	40810	Beech Ridge Road Pit	8/25/2009	Renewal	8.6
Hamilton							
Hope	King, Charles Db	MINE	50349	Hope Pit #2	10/29/2009	Renewal	4.6
Indian Lake	Indian Lake, Town of	MINE	50275	Pit #3	5/18/2009	Renewal	2.0
Indian Lake	Indian Lake, Town of	MINE	50490	Pit #4	2/5/2009	Renewal	3.5
Indian Lake	Indian Lake, Town of	MINE	50884	Brown Pit	6/16/2009	Renewal	2.0
Indian Lake	Ovitt, Peter C	MINE	51006	Peter Ovitt Sand And Gravel Pit #1	5/26/2009	New	4.9

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Hamilton							
Inlet	Murdock Trucking Inc	MINE	50251	Murdock Trucking Pit	12/10/2009	Modification	6.8
Long Lake	Hosley, M J	MINE	50928	M. J. Hosley Pit #1	9/21/2009	Modification	4.4
Long Lake	Hosley, M J	MINE	50928	M. J. Hosley Pit #1	10/1/2009	Modification	4.4
Herkimer							
Fairfield	Hanson Aggregates New York L	MINE	60042	Middleville Quarry	7/7/2009	Modification	37.1
Little Falls	Korce, Andrew	MINE	60561	Korce's Pit	10/1/2009	Renewal	7.5
Newport	Moodys Excavation and Recreat	MINE	60698	Moody Sand Pit	9/23/2009	Modification	15.0
Russia	Hanson Aggregates New York L	MINE	60040	Gravesville	7/7/2009	Modification	86.2
Russia	Hanson Aggregates New York L	MINE	60190	Poland	7/7/2009	Modification	159.8
Russia	Hanson Aggregates New York L	MINE	60190	Poland	11/24/2009	Renewal	159.8
Russia	Hanson Aggregates New York L	MINE	60196	Bienick Pit	7/7/2009	Modification	49.8
Russia	Material Sand & Gravel	MINE	60053	Gravesville Plant	8/27/2009	Modification	140.3
Russia	Material Sand & Gravel	MINE	60053	Gravesville Plant	6/10/2009	Renewal	140.3
Russia	Weakley, Bruce dba Weakley Sa	MINE	60417	Worden Mine	3/13/2009	Modification	9.8
Salisbury	Manheim, Town of	MINE	60537	Yatarola Gravel Pit	10/1/2009	Renewal	3.0
Salisbury	Manheim, Town of	MINE	60734	Yatarola Sand Pit	10/1/2009	Renewal	3.5
Schuyler	Ferdula Top Soil Products Inc	MINE	61027	Moss Road Pit	9/1/2009	Renewal	6.0
Warren	Hanson Aggregates New York L	MINE	60037	Jordanville	11/24/2009	Renewal	185.5
Warren	Hanson Aggregates New York L	MINE	60037	Jordanville	7/7/2009	Modification	185.5
Webb	Adirondack League Club	MINE	60704	Bisby Road Bridge Pit	1/2/2009	Renewal	5.0
Webb	Webb, Town of	MINE	61092	Pipeline Mine	10/9/2009	New	2.8
Jefferson							
Adams	R G King General Construction	MINE	61086	Kellogg Hill Mine	12/22/2009	New	4.6
Alexandria	DEC Properties, Inc.	MINE	60998	Alexandria Bay Pit	9/4/2009	Renewal	6.2
Alexandria	Johnson's Sand & Gravel Inc	MINE	60134	Hunter Pit	6/15/2009	Modification	35.9
Alexandria	Newberry, Royce dba Newberry	MINE	60853	Newberry Mine	5/15/2009	Renewal	8.4
Brownville	Brownville, Town of	MINE	60415	Moffatt Quarry	12/10/2009	Renewal	10.0
Champion	Hanson Aggregates New York L	MINE	60466	Great Bend Quarry	7/7/2009	Modification	88.7
Clayton	Bach Plumbing & Heating Co O	MINE	60185	Pelo Road Mine	1/22/2009	Renewal	53.8
Clayton	Bach Plumbing & Heating Co O	MINE	60930	Route 12 Gravel Mine	6/12/2009	Renewal	18.2
Ellisburg	Dodge Farms LLC	MINE	60651	County Route 79 mine	11/20/2009	Modification	21.5
Ellisburg	R G King General Construction	MINE	60318	King-Williams Sand Pit	2/9/2009	Modification	5.3
Ellisburg	Williams, Morgan	MINE	61087	Towles Sand Pit	7/9/2009	Modification	16.7

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Jefferson							
Ellisburg	Williams, Morgan	MINE	61087	Towles Sand Pit	3/6/2009	New	16.7
Leray	Greystone Quarries Inc	MINE	60522	Kiser Road Quarry	5/13/2009	Renewal	26.6
Leray	Greystone Quarries Inc	MINE	60522	Kiser Road Quarry	10/14/2009	Modification	26.6
Pamelia	Hanson Aggregates New York L	MINE	60038	Watertown	7/7/2009	Modification	263.0
Wilna	Great Bend Construction Corp	MINE	61054	Stiles Great Bend Mine	9/18/2009	New	4.9
Lewis							
Lewis	J-Mar Construction Co Inc	MINE	51016	North Lewis Mine	7/22/2009	New	1.3
Lewis	Lewis, Town of	MINE	60900	Parsons Mine	3/31/2009	Renewal	6.6
Leyden	Barrett Paving Materials Inc	MINE	61080	Millick Quarry	11/23/2009	New	8.0
Lyonsdale	Lewis County Highway Dept	MINE	60754	O'Brien Pit	4/14/2009	Renewal	4.6
Livingston							
Caledonia	Hanson Aggregates New York L	MINE	80099	Caledonia	7/7/2009	Modification	211.1
Caledonia	York, Town of	MINE	80148	Town Pit	9/22/2009	Renewal	7.1
Conesus	Errigo, Joseph A	MINE	80673	Errigo Sand And Gravel Mine	12/16/2009	Renewal	5.0
Leicester	Cipriano Bros Inc	MINE	80132	Leicester Pit	10/9/2009	Renewal	13.0
Leicester	Leicester, Town of	MINE	80165	Leicester Pit	7/22/2009	Renewal	6.5
Madison							
Hamilton	White Eagle Sand And Stone	MINE	70729	White Eagle Sand And Stone Pooleville	5/1/2009	Modification	23.9
Lincoln	Callanan Industries Inc	MINE	70017	Oxbow Quarry	7/1/2009	Modification	156.0
Sullivan	Callanan Industries Inc	MINE	70045	Worlock Quarry, Quarry Road	7/1/2009	Modification	79.0
Sullivan	Crouse Construction, Inc.	MINE	70527	Crouse Gravel Bed - NYS Route 173	8/19/2009	Renewal	12.0
Monroe							
Ogden	Dolomite Products Company Inc	MINE	80064	Ogden Pit	11/30/2009	Modification	80.4
Ogden	L L Huff Co Inc	MINE	80274	Huff Sand Pit	9/23/2009	Renewal	24.1
Parma	Lorric Development Corporation	MINE	80058	Monarch - Pine Hill Road	2/4/2009	New	23.6
Pittsford	Lehman, Roy R	MINE	80106	Genesee S & G	6/8/2009	Renewal	38.0
Rush	Rush Gravel Corp	MINE	80178	Schillinger Pit	1/29/2009	Renewal	19.5
Wheatland	Syracuse Sand & Gravel LLC	MINE	80563	A & R Pit	9/16/2009	Renewal	19.7
Montgomery							
Florida	Callanan Industries Inc	MINE	40004	5S Quarry	7/1/2009	Modification	196.0
St Johnsville	Hanson Aggregates New York L	MINE	40054	St. Johnsville Quarry	7/7/2009	Modification	75.4
St Johnsville	Hanson Aggregates New York L	MINE	40224	St. Johnsville Pit	7/7/2009	Modification	12.5

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Niagara							
Lewiston	Bergey, Michael J.	MINE	90707	Bergey Pit	3/16/2009	Renewal	1.0
Lockport	Bewley, Robert C Jr - MKB Inc	MINE	90627	Wilson Road West Sand Pit	1/26/2009	Renewal	7.0
Lockport	Redland Quarries NY Inc	MINE	90017	Lockport Quarry	10/1/2009	Modification	263.0
Niagara	Redland Quarries NY Inc	MINE	90012	Quarry Road Site	10/1/2009	Modification	189.0
Royalton	Redland Quarries NY Inc	MINE	90016	Gasport Plant	10/1/2009	Modification	178.0
Oneida							
Annsville	Hanson Aggregates New York L	MINE	60445	Taberg Pit	7/7/2009	Modification	29.5
Annsville	Hanson Aggregates New York L	MINE	60445	Taberg Pit	7/7/2009	Renewal	29.5
Boonville	Boonville, Town of	MINE	60098	Hayes Rd. Pit	9/1/2009	Renewal	5.5
Boonville	Boonville, Town of	MINE	61024	Moose River Road Sand Mine	1/8/2009	Renewal	9.7
Boonville	Hanson Aggregates New York L	MINE	60039	Boonville Pit	7/7/2009	Modification	96.3
Boonville	Hanson Aggregates New York L	MINE	60204	Sperry Hill	7/7/2009	Modification	35.3
Boonville	Lansing, Cleveland	MINE	60958	Holmes Road Mine	9/1/2009	Renewal	5.0
Boonville	Lenart, Steve	MINE	60508	Lenart Sand & Gravel Pit	3/13/2009	Renewal	5.6
Florence	Bartell, Mike	MINE	60491	Florence Sand & Gravel	9/25/2009	Renewal	7.1
Florence	Florence, Town of	MINE	60894	Loomis Mine	8/2/2009	Renewal	6.9
Forestport	Forestport, Town of	MINE	60582	Dustin Road Pit	6/1/2009	Renewal	7.0
Forestport	Hanson Aggregates New York L	MINE	60649	Bear Creek	7/7/2009	Modification	99.8
Forestport	Hanson Aggregates New York L	MINE	60649	Bear Creek	7/7/2009	Renewal	99.8
Forestport	Horan Trust, Peter	MINE	60861	Woodgate Mine	1/2/2009	Renewal	9.6
Lee	Seymour Excavating Inc	MINE	60156	Lee Valley Road Pit	9/22/2009	Modification	9.5
Paris	Otto's Sand & Gravel	MINE	60488	Schlaepfer Sand & Gravel Pit	5/1/2009	Renewal	11.5
Part	Hanson Aggregates New York L	MINE	60041	Oriskany Falls Quarry	7/7/2009	Modification	263.5
Remsen	Jones, Robert	MINE	60737	Jones Mine	10/19/2009	Renewal	5.0
Remsen	Ohio, Town of	MINE	60946	Wagner Mine	4/2/2009	Renewal	10.0
Vernon	Seymour Excavating Inc	MINE	61035	Seymour-Acee Gravel Pit	9/22/2009	Modification	12.7
Onondaga							
Dewitt	Hanson Aggregates New York L	MINE	70021	Rock Cut	7/7/2009	Modification	103.8
Dewitt	Hanson Aggregates New York L	MINE	70058	Jamesville Quarry	7/7/2009	Modification	939.0
Manlius	Raimondo Bros., Inc	MINE	70495	Raimondo Topsoil	9/1/2009	Renewal	4.8
Marcellus	J J Mining Company Inc	MINE	70487	Marcellus Products - Masters Road	10/6/2009	Renewal	4.5
Marcellus	W F Saunders & Sons Inc	MINE	70216	Bishop Hill Mine - Bishop Hill Road	3/11/2009	Renewal	13.0
Onondaga	W F Saunders & Sons Inc	MINE	70003	South Onondaga Mine - Off Ny Route 8	5/6/2009	Renewal	73.9

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Onondaga							
Onondaga	W F Saunders & Sons Inc	MINE	70840	South Onondaga (Haendle) Mine	2/18/2009	Renewal	19.9
Skaneateles	Cemento LLC	MINE	70759	Sandy Hill Sand & Gravel Mine - Stum	12/2/2009	Modification	24.7
Skaneateles	Fletcher Gravel Co Inc	MINE	70100	Waldburger mine	3/11/2009	Renewal	27.0
Skaneateles	Hanson Aggregates New York L	MINE	70024	Skaneateles Quarry	7/7/2009	Modification	278.3
Skaneateles	Smith, Daniel	MINE	70462	Lukins Mine - Shepard Road	10/7/2009	Renewal	4.9
Skaneateles	Smith, David J	MINE	70585	Hoyt Road Pit - Hoyt Road	10/28/2009	Renewal	10.2
Ontario							
Bristol	DeJohn Development Corp	MINE	80275	Lower Egypt Road	7/14/2009	Modification	2.5
East Bloomfield	East Bloomfield, Town of	MINE	80154	East Bloomfield Pit	7/21/2009	Renewal	53.1
Hopewell	Willow Bend Farm LLC	MINE	80811	Yates Clay Mine #2	4/16/2009	New	2.4
Manchester	Schram, Robert E.	MINE	80812	Schram Farms Mine	4/1/2009	Renewal	4.9
Manchester	Willow Bend Farm LLC	MINE	80810	Willow Bend Mine	1/20/2009	Renewal	6.0
Phelps	Dendis Sand & Gravel Inc	MINE	80518	Boyde Pit	2/12/2009	Renewal	35.0
Phelps	Dendis Sand & Gravel Inc	MINE	80650	Palone Gravel Mine	9/9/2009	Renewal	16.5
Phelps	Hanson Aggregates New York L	MINE	80009	Phelps Mine	7/7/2009	Modification	240.0
Phelps	Hanson Aggregates New York L	MINE	80036	Geneva	7/7/2009	Modification	216.8
Phelps	Syracuse Sand & Gravel LLC	MINE	80025	Gifford Road Pit	9/21/2009	Modification	89.7
Richmond	Richmond, Town of	MINE	80520	Municipality	10/29/2009	Renewal	15.0
Victor	Hanson Aggregates New York L	MINE	80050	Victor Mine	7/7/2009	Modification	155.6
Victor	J G Turner Inc	MINE	80197	Turner Pit	2/12/2009	Modification	30.5
Victor	Syracusa Sand & Gravel Corp	MINE	80125	Syracusa Sand & Gravel Corp.	8/31/2009	Modification	86.3
West Bloomfield	Dolomite Products Company Inc	MINE	80267	Mendon Mine	3/6/2009	Renewal	111.5
West Bloomfield	Elam Sand & Gravel Corp	MINE	80428	West Bloomfield Mine	3/19/2009	Renewal	95.8
Orange							
Blooming Grove	Alexandra Development Corp	MINE	30306	Mountain Lodge Rd Mine	8/24/2009	Renewal	8.0
Chester	Frozen Ropes Baseball Co	MINE	30490	Gateway Hill Professional Park	9/24/2009	Modification	9.0
Deerpark	Deerpark, Town of	MINE	30111	Wilson Rd. Pit	1/29/2009	Renewal	8.0
Deerpark	P J Quarry Inc	MINE	30020	PJ Quarry	3/25/2009	Modification	55.0
Deerpark	P J Quarry Inc	MINE	30020	PJ Quarry	8/25/2009	Renewal	55.0
Goshen	BJP Industries Inc	MINE	30592	BJP Industries Mine	5/29/2009	Renewal	13.9
Goshen	E Tetz & Sons Inc	MINE	30552	Echo Lake Mine	4/28/2009	Modification	11.5
Minisink	Kowalczyk, Leo & Patricia	MINE	30443	Hoslers Rd Mine	11/10/2009	Renewal	5.0
Minisink	Rossi, Jack	MINE	30501	Ford Road Mine Site	4/6/2009	Renewal	7.2

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Orange							
Montgomery	Argenio Brothers Inc	MINE	30654	Argenio Brothers Mine	2/20/2009	New	4.2
Wallkill	C M & Sons Trucking Inc	MINE	30474	Co.Rt.76 (Bloomingburg Rd) Pit	10/14/2009	Renewal	41.0
Wallkill	Phillipsburg Road Associates L	MINE	30493	Phillipsburg Road Assoc Mine	3/6/2009	Modification	3.3
Wawayanda	EBS Associates LLC	MINE	30648	Javelin Mine	9/2/2009	New	5.0
Wawayanda	Ward Pavements Inc	MINE	30561	Garten Mine	3/6/2009	Renewal	16.0
Orleans							
Barre	Eagle Harbor Sand and Gravel I	MINE	80171	Eagle Harbor Mine	2/11/2009	Renewal	158.0
Barre	Eagle Harbor Sand and Gravel I	MINE	80442	Gray Road Pit	8/11/2009	Modification	5.0
Barre	Eagle Harbor Sand and Gravel I	MINE	80442	Gray Road Pit	8/13/2009	Renewal	5.0
Barre	Keeler Construction Co Inc	MINE	80166	Barre Stone Prod.	12/23/2009	Renewal	195.0
Clarendon	Hanson Aggregates New York L	MINE	80079	Clarendon Quarry	7/7/2009	Modification	81.2
Clarendon	Keeler Construction Co Inc	MINE	80045	Chugg Road Pit	12/28/2009	Renewal	8.1
Murray	Christ, Lloyd Jr	MINE	80706	Lloyd Christ Jr. - Fancher Road	7/9/2009	Renewal	6.3
Murray	Hanson Aggregates New York L	MINE	80072	Hulberton Quarry	7/7/2009	Modification	68.3
Ridgeway	Orleans Construction Co	MINE	80277	Orleans Construction Co. Mine	7/23/2009	Modification	21.9
Oswego							
Amboy	Webb, Patricia A	MINE	70866	Amboy Mine	3/11/2009	Renewal	4.9
Constantia	Hildreth, Allen	MINE	70619	Grannis	8/31/2009	Renewal	5.8
Granby	Granby, Town of	MINE	70551	Granby Pit	9/24/2009	Renewal	3.0
Granby	Puglia, Samuel A	MINE	70203	Granby Pit - Johnnycake Drive	4/17/2009	Renewal	46.0
Hannibal	Oswego County DPW	MINE	70230	Hannibal Mine - County Route #7	4/23/2009	Renewal	28.8
Hastings	Hildreth, Allen	MINE	70886	Cindy Lee Gravel Pit	7/14/2009	Modification	4.9
Mexico	Earl Becker Construction Inc	MINE	70325	Peterson Mine - NYS Route 69	12/1/2009	Renewal	24.0
Mexico	Ladd, Earl	MINE	70326	Ladd Pit- Popple Ridge Road	10/22/2009	Renewal	7.7
Orwell	Orwell, Town of	MINE	70554	Orwell Gravel Mine #1- Hogback Road	11/27/2009	Renewal	5.0
Palermo	Oswego County DPW	MINE	70666	Pitcher Pit	3/9/2009	Renewal	7.9
Part	Coffin, Robert E	MINE	70445	Coffin Farm Pit #1 -Co. Rt. 48 & Cobb	7/6/2009	Renewal	9.9
Sandy Creek	Hanson Aggregates New York L	MINE	70020	Lacona - North	7/7/2009	Modification	317.9
Sandy Creek	Hanson Aggregates New York L	MINE	70584	Lacona - South	7/7/2009	Modification	15.0
Schroepfel	BLC Aggregates LLC	MINE	70305	Bates Bed	8/14/2009	Modification	31.0
Schroepfel	Brown Excavation Co Inc	MINE	70381	Gilbert Mills Road Facility	8/3/2009	Modification	16.8
Schroepfel	Schroepfel, Town of - Highway	MINE	70308	Boy Scout Pit	7/7/2009	Renewal	12.0
Scriba	F Rizzo Construction Inc	MINE	70426	Slater Pit, Klocks Corner Rd.	7/24/2009	Renewal	4.0

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Oswego							
Scriba	Northern Aggregates Inc	MINE	70723	Maiden Lane Mine	6/19/2009	Renewal	24.0
Scriba	Scriba, Town of	MINE	70135	Bough Pit	2/20/2009	Renewal	37.0
Volney	H & R Topsoil Inc	MINE	70612	H&R Topsoil	6/18/2009	Renewal	29.9
Williamstown	Oswego County DPW	MINE	70103	Pappa's Pit	4/21/2009	Renewal	59.1
Otsego							
Butternuts	Ackley, Robert	MINE	40648	1009 County Highway 18	1/14/2009	Modification	5.8
Butternuts	Butternuts, Town of	MINE	40313	Co.Rt.18 / Bank # 2 Pit	2/26/2009	Renewal	12.8
Edmeston	Fred Burrows Trucking & Excav	MINE	40771	Burrows- Hawes Gravel Pit	10/9/2009	Renewal	4.9
Hartwick	Scott R. Ubner Excavating Inc.	MINE	40832	Ubner Mine	7/24/2009	Modification	5.0
Maryland	J & J Tauzel	MINE	40395	J&J Tauzel Mine	4/16/2009	Renewal	14.0
Middlefield	Middlefield, Town of	MINE	40646	Middlefield Sand & Gravel	9/16/2009	Renewal	8.0
Otsego	Kukenberger, Edward L	MINE	40538	Kukenberger's Gravel	4/20/2009	Modification	34.8
Pittsfield	Benson, David, Gregory, Linda,	MINE	40113	NYS Rt.80 / Benson Gravel-Hoboken F	3/9/2009	Renewal	7.0
Westford	Seward Sand & Gravel Inc	MINE	40678	Greenbush Road/Tim Green Pit	10/16/2009	Modification	7.0
Rensselaer							
Berlin	Cowee Forest Products LLC	MINE	40662	Northeast Pit	6/11/2009	Modification	3.4
Berlin	Cowee Forest Products LLC	MINE	40663	Southwest Pit	6/11/2009	Modification	2.8
Brunswick	Callanan Industries Inc	MINE	40031	Cropseyville Quarry	7/1/2009	Modification	76.0
Brunswick	Callanan Industries Inc	MINE	40523	Fane/Cropseyville Quarry	7/1/2009	Modification	30.0
Brunswick	Callanan Industries Inc	MINE	40523	Fane/Cropseyville Quarry	5/22/2009	Renewal	30.0
Pittstown	Bulson, Kenneth	MINE	40226	Bulson Mine	3/13/2009	Renewal	7.0
Pittstown	Gallivan, Sean M	MINE	40758	Otter Creek Farm Gravel Mine	8/10/2009	Renewal	5.0
Pittstown	Pittstown, Town of	MINE	40394	Former George Speanburg Pit	1/13/2009	Renewal	20.1
Pittstown	R M Bacon LLC	MINE	40869	Persons Mine	7/14/2009	New	4.2
Poestenkill	Poestenkill, Town of	MINE	40229	Dennis Road Pit	7/28/2009	Modification	7.0
Poestenkill	Rifenburg Construction Inc	MINE	40524	Dzembo Farm Pit	4/10/2009	Modification	12.4
Sand Lake	Troy Sand & Gravel Co Inc	MINE	40874	Wolfe Sand & Gravel	3/23/2009	New	8.3
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40123	Cammarota Pit	8/28/2009	Modification	65.5
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40123	Cammarota Pit	11/4/2009	Modification	65.5
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40762	Weir Sand & Gravel Mine	3/3/2009	Modification	17.4
Schaghticoke	Troy Sand & Gravel Co Inc	MINE	40762	Weir Sand & Gravel Mine	3/3/2009	Modification	17.4
Schaghticoke	Warren W Fane Inc	MINE	40289	Hemstreet Park Pit	9/23/2009	Modification	165.0
Schaghticoke	Warren W Fane Inc	MINE	40570	Rt. 67/ Spaulding Pit	9/17/2009	Renewal	22.1

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Rensselaer							
Stephentown	Troy Sand & Gravel Co Inc	MINE	40273	Tayer/ Saddle Back Ridge Rd. Pit	8/27/2009	Modification	41.2
Rockland							
Clarkstown	Tilcon New York Inc	MINE	30010	West Nyack Quarry	8/1/2009	Modification	153.0
Ramapo	Tilcon New York Inc	MINE	30036	Suffern Quarry	8/1/2009	Modification	38.0
Stony Point	Tilcon New York Inc	MINE	30067	Tompkins Cove Quarry	8/1/2009	Modification	145.0
Saratoga							
Clifton Park	Hicks, Thomas A	MINE	50933	Sugar Hill Bank	1/9/2009	Renewal	15.7
Corinth	Corinth Central School District	MINE	50549	Corinth Pit	6/19/2009	Renewal	3.0
Corinth	Ellis, Gene F Jr	MINE	51003	Ellis Mine	9/14/2009	Modification	2.8
Corinth	Palette Stone Corp	MINE	50364	South Corinth Bank	6/15/2009	Modification	103.8
Edinburg	Edinburg, Town of	MINE	50245	Ide Pit	2/9/2009	Renewal	3.0
Edinburg	Ginter, Bruce E	MINE	50285	Dimick Sand Pit	2/24/2009	Renewal	3.0
Galway	Larned and Sons Inc	MINE	50610	Larned Mine Site-Galway	1/16/2009	Renewal	2.5
Greenfield	Peckham Materials Corp	MINE	50265	Coy Rd Pit	1/16/2009	Renewal	88.5
Hadley	Hadley, Town of	MINE	50659	Harris Road Pit	7/10/2009	Renewal	5.0
Halfmoon	James H Maloy Inc	MINE	50632	Halfmoon Clay Bank	1/6/2009	Renewal	5.0
Halfmoon	R J Valente Gravel Inc	MINE	50507	Ruchlicki Pit	6/2/2009	Renewal	83.0
Halfmoon	Stiles Excavating & Trucking In	MINE	50168	Stiles Excavating And Trucking Mine	10/27/2009	Renewal	5.5
Halfmoon	Stiles Excavating & Trucking In	MINE	50526	Tabor Rd Pit	3/11/2009	Renewal	6.0
Halfmoon	Troy Sand & Gravel Co Inc	MINE	50714	Bailey Farm Pit	2/19/2009	Modification	30.0
Halfmoon	Troy Topsoil Co Inc	MINE	50508	Troy Topsoil Pit	10/26/2009	Renewal	19.0
Milton	Munter Enterprises	MINE	50491	Munter Pit	5/15/2009	Renewal	12.0
Moreau	Barden, Christopher M	MINE	50607	Barden Topsoil Mining	4/8/2009	Renewal	5.0
Moreau	Cranesville Aggregate Compani	MINE	50039	Moreau	4/16/2009	Renewal	64.5
Moreau	D A Collins Construction Comp	MINE	50455	Robert Shaw Pit	4/7/2009	Renewal	12.0
Moreau	Fort Edward, Village of	MINE	50488	Village Of Fort Edward Pit	11/25/2009	Renewal	2.2
Providence	Milton, Galway & Providence, T	MINE	50120	Tri-Town Gravel Pit	1/6/2009	Renewal	12.8
Schenectady							
Duanesburg	Rowley, Scott & Brenda	MINE	40813	Mott Farm Mine	5/1/2009	New	4.0
Glenville	Cranesville Aggregate Compani	MINE	40093	Van Buren Bank	10/8/2009	Renewal	55.0
Glenville	Warner, Carole	MINE	40778	Warner Mine	10/12/2009	Renewal	3.0
Rotterdam	Iovinella, Robert	MINE	40564	Iovinella/Larned Feuz Rd. Subdivision	6/19/2009	Modification	10.7

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Schoharie							
Conesville	Eric J. Dahlberg Construcion	MINE	40829	Manor Kill Mine	9/11/2009	Modification	10.3
Gilboa	Gilboa, Town of	MINE	40510	Flat Creek Road Mine	3/12/2009	Renewal	11.0
Gilboa	Platterkill Sand & Gravel Inc	MINE	40481	Platterkill Gravel Mine	3/13/2009	Modification	16.6
Jefferson	Jefferson, Town of	MINE	40100	Peck Street Pit	2/4/2009	Modification	14.1
Schuyler							
Cayuta	Hanson Aggregates New York L	MINE	80766	Cayuta Mine	7/7/2009	Modification	54.0
Hector	Hanson Aggregates New York L	MINE	80222	Burdett	7/7/2009	Modification	98.1
Seneca							
Junius	Seneca Meadows Inc	MINE	80331	Avery Road Pit	8/16/2009	Renewal	38.9
St. Lawrence							
Brasher	Curran Logging Inc	MINE	60891	Maple Ridge Mine	9/1/2009	Renewal	28.7
Colton	Graymont Materials NY Inc	MINE	60057	Cold Brook Pit	2/24/2009	Renewal	13.0
Hopkinton	Hopkinton, Town of	MINE	60330	Mott Pit	9/10/2009	Renewal	13.0
Lawrence	Lawrence, Town of	MINE	61034	Town of Lawrence Sand Mine	12/15/2009	Renewal	5.0
Lisbon	Lisbon, Town of	MINE	60306	Diamond National Pit	2/3/2009	Renewal	5.0
Lisbon	Mayday Gravel Products	MINE	60158	Brown Road	12/3/2009	Renewal	45.0
Massena	Perras Excavating Inc	MINE	61030	Polarolo Mine	10/9/2009	Renewal	8.0
Norfolk	Curran Logging Inc	MINE	60502	Schwartz #1 Pit	3/2/2009	Renewal	13.0
Norfolk	Curran Logging Inc	MINE	60756	Schwartz #2 mine	2/27/2009	Renewal	24.8
Norfolk	Curran Logging Inc	MINE	60922	Plum Brook Mine	6/30/2009	Renewal	27.0
Oswegatchie	Hanson Aggregates New York L	MINE	60950	Oswegatchie	12/10/2009	Renewal	12.0
Oswegatchie	Hanson Aggregates New York L	MINE	60950	Oswegatchie	7/7/2009	Modification	12.0
Oswegatchie	Howes Excavating	MINE	60163	Eel Wier Mine	1/28/2009	Renewal	39.0
Parishville	Graymont Materials NY Inc	MINE	60910	Parishville Bank	11/30/2009	Renewal	39.0
Parishville	Parishville Sand & Gravel	MINE	60141	Parishville Sand & Gravel	4/9/2009	Modification	31.0
Parishville	Randall, Ralph N. & Constance	MINE	61077	Benson Road Pit	7/30/2009	Modification	4.5
Part	Hanson Aggregates New York L	MINE	60171	Ogdensburg	7/7/2009	Modification	82.7
Potsdam	Potsdam, Town of	MINE	61093	Collins Sand Pit	9/1/2009	New	5.0
Russell	Hermon, Town of	MINE	60238	Barry Pit	4/3/2009	Renewal	11.0
Steuben							
Avoca	Avoca, Town of	MINE	80836	Avoca Gravel Pit	7/30/2009	New	5.5
Bath	Hanson Aggregates New York L	MINE	80033	Bath Mine	7/7/2009	Modification	145.9
Bath	Hanson Aggregates New York L	MINE	80567	Kanona Mine	8/3/2009	Renewal	81.4

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Steuben							
Bath	Hanson Aggregates New York L	MINE	80567	Kanona Mine	7/7/2009	Modification	81.4
Campbell	Coots, Steve T	MINE	80754	Savona Pit	11/2/2009	Renewal	13.9
Cohocton	River Road Gravel LLC	MINE	80090	Crouch Pit	5/15/2009	Renewal	5.0
Erwin	Cold Spring Construction Co	MINE	80752	Cold Spring Development	2/3/2009	Renewal	54.5
Howard	Howard, Town of	MINE	80735	Pfitzenmaier Gravel Pit	3/10/2009	Renewal	6.0
Lindley	Austin Construction LLC	MINE	80743	Primizzi Road Pit	4/2/2009	Renewal	4.8
Pulteney	Pultney, Town of	MINE	80179	Spitz Pit - Pit 2	7/21/2009	Renewal	6.0
Woodhull	Woodhull, Town of	MINE	80744	Hartman-Carl Gravel Mine	5/5/2009	Renewal	4.8
Suffolk							
Brookhaven	Frog Hollow Industries	MINE	10079	Frog Hollow Industries	3/18/2009	Renewal	18.0
East Hampton	Disunno, Mike & Son	MINE	10039	Disunno Sand And Gravel	3/25/2009	Renewal	4.0
Riverhead	Riverhead Reeves Associates L	MINE	10116	The Highlands at Aquebogue	6/8/2009	Renewal	2.7
Riverhead	Riverhead Reeves Associates L	MINE	10117	The Highlands at Reeves	5/4/2009	Renewal	6.6
Riverhead	T S Haulers Inc	MINE	10101	T S Haulers	6/5/2009	Renewal	47.0
Southampton	Hampton Sand Corp	MINE	10037	Hampton Sand	9/11/2009	Modification	48.0
Sullivan							
Bethel	Gala Sand & Gravel Inc	MINE	30046	Gail Rd	1/8/2009	Renewal	27.0
Callicoon	TSR Materials Corp	MINE	30282	Hauser Gravel Bank	5/26/2009	Renewal	14.0
Cochecton	Callanan Industries Inc	MINE	30006	Fosterdale	7/1/2009	Modification	53.0
Fallsburgh	Werlau Enterprises LLC	MINE	30217	Mcintosh Sand & Gravel	6/2/2009	Modification	18.0
Mamakating	Metro Recycling & Crushing Inc	MINE	30530	Philipsport Pit	5/27/2009	Modification	13.5
Thompson	Callanan Industries Inc	MINE	30005	Bridgeville	7/1/2009	Modification	375.0
Thompson	Sullivan County Div of Solid W	MINE	30637	Landfill Mine	1/15/2009	Modification	8.0
Tusten	Tusten, Town of	MINE	30591	Town mine #1	1/9/2009	Renewal	4.0
Tioga							
Barton	Athens Township	MINE	70261	Athens Township Supervisors	9/15/2009	Renewal	5.0
Barton	Simonds Excavating Inc	MINE	70657	Hubish Mine - Milltown, Pa.	3/23/2009	Renewal	11.7
Owego	Barney And Dickenson Inc	MINE	70459	Blodgett Road Mine	3/20/2009	Modification	25.5
Owego	Barney And Dickenson Inc	MINE	70778	Owego Mine	10/27/2009	Renewal	6.8
Tompkins							
Dryden	NMP Ithaca Ltd	MINE	70895	Dryden Quarry	5/20/2009	Modification	10.5
Dryden	RMS Gravel Inc	MINE	70282	Wolf Pit	12/4/2009	Modification	15.0
Lansing	Cayuga Crushed Stone Inc	MINE	70027	Portland Point Quarry	11/3/2009	Renewal	126.0

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Town	Company	Type	MineID	Mine Name	Issue Date	Type	Acres Affected
Tompkins							
Newfield	Economy Paving Co Inc	MINE	70219	Taber Pit	2/12/2009	Renewal	8.0
Ulster							
Esopus	Callanan Industries Inc	MINE	30184	Port Ewen Quarry	7/1/2009	Modification	139.0
Kingston	Callanan Industries Inc	MINE	30262	Jockey Hill Mine	7/1/2009	Modification	11.3
Kingston	Kings Town Inc	MINE	30544	Kings Town Mine	6/3/2009	Renewal	11.4
Lloyd	Magliato Brothers Inc	MINE	30310	Lloyd Mine	3/2/2009	Renewal	12.0
Marlborough	Tilcon New York Inc	MINE	30012	Cedar Cliff Quarry	8/1/2009	Modification	11.0
Part	Callanan Industries Inc	MINE	30060	East Kingston	5/27/2009	Modification	192.0
Rochester	Mombaccus Estates Ltd	MINE	30455	Mombaccus Estates, Ltd. Mine	12/15/2009	Renewal	9.6
Saugerties	CMJ Land Development LLC	MINE	30129	Saugerties mine	4/21/2009	Modification	10.0
Saugerties	Parr, William C	MINE	30154	Parr Shale Pit	1/20/2009	Renewal	9.0
Wawarsing	Feinberg, Jay	MINE	30511	Quince Glen Mine	5/14/2009	Renewal	8.2
Warren							
Chester	Clark, Ernest	MINE	50932	Ernest Clark Gravel Mine	5/15/2009	Renewal	2.0
Chester	Hayes, Bradford	MINE	50332	Chestertown mine	7/15/2009	Renewal	6.2
Horicon	Horicon, Town of	MINE	51015	Horicon mine	9/22/2009	New	2.0
Johnsburg	Johnsburg, Town of	MINE	50064	Johnsburg Pit	1/22/2009	Renewal	8.5
Johnsburg	Walter, Daniel D	MINE	50249	Walter Mine	7/9/2009	Renewal	8.8
Stony Creek	Stony Creek, Town of	MINE	50438	Town Sand & Gravel Pit	7/30/2009	Renewal	8.0
Thurman	Carpenter, Philip	MINE	50513	Philip Carpenter Pit	10/30/2009	Renewal	4.7
Thurman	Thurman, Town of	MINE	50308	Erving Baker Road Pit	11/25/2009	Renewal	8.3
Washington							
Easton	Easton, Town of	MINE	50192	Town Of Easton Sand & Gravel Pit	1/6/2009	Renewal	18.5
Easton	Peckham Industries Inc	MINE	50568	Easton Site	8/25/2009	Renewal	36.0
Easton	Tracy Materials Inc	MINE	50297	Windy Hill Bank	11/9/2009	Renewal	142.3
Fort Ann	Jim Sheldon Excavating Inc	MINE	50985	Fort Ann Quarry	12/21/2009	Modification	6.5
Fort Ann	Jointa Galusha LLC	MINE	50159	Fort Ann Bank	9/9/2009	Modification	46.0
Fort Ann	Keith L Harris Co Inc	MINE	50142	Lee Gravel Pit	9/14/2009	Modification	19.2
Fort Ann	Peckham Materials Corp	MINE	50504	Washington County Mine	1/13/2009	Modification	38.2
Greenwich	B J Farms Inc	MINE	50917	Battenville Mine	1/9/2009	Renewal	10.6
Greenwich	Corscadden, Fred	MINE	50521	Corscadden Pit	11/19/2009	Modification	8.4
Greenwich	Lewandowski, Thomas	MINE	50806	Lewandoski mine	11/23/2009	Renewal	14.0
Hartford	Jointa Galusha LLC	MINE	50891	Smiths Basin Mine	11/2/2009	Renewal	60.0

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Washington							
Jackson	Arnold Builders Corp	MINE	50150	Rte. 313 Gravel Mine	1/7/2009	Renewal	10.0
Jackson	Rifenburg Construction Inc	MINE	50385	Carlton Farm Pit	1/9/2009	Renewal	16.0
Salem	Salem Sand and Gravel	MINE	50458	Salem mine	5/27/2009	Renewal	4.5
White Creek	Barney, William	MINE	51013	Chestnut Woods Road Mine	5/20/2009	New	3.0
White Creek	Gulley, John E	MINE	50557	Gulley Farm Pit	1/7/2009	Renewal	13.0
White Creek	Gulley, John E	MINE	50719	Bejosh's Gravel Bank	1/8/2009	Renewal	5.5
Whitehall	Hagadorn, Andre Graves, Marti	MINE	50916	Dolph Pond Quarry	1/28/2009	Modification	10.2
Wayne							
Arcadia	DB Cahill Inc	MINE	80804	Hutteman Sand & Gravel Mine	7/16/2009	Modification	2.0
Arcadia	Dolomite Products Company Inc	MINE	80080	Palmer Road Site	8/25/2009	Modification	29.6
Arcadia	Dolomite Products Company Inc	MINE	80643	Newark Operation	8/25/2009	Modification	100.4
Arcadia	Scheer, David A	MINE	80726	Duvall And Scheers Sand & Gravel	2/19/2009	Renewal	25.0
Butler	Hanson Aggregates New York L	MINE	80248	Red Creek	7/7/2009	Modification	52.1
Butler	Hanson Aggregates New York L	MINE	80606	Butler Plant	7/7/2009	Modification	57.0
Galen	Montemorano Bros Inc	MINE	80356	The Home Pit	2/3/2009	Modification	41.4
Galen	Montemorano Bros Inc	MINE	80787	The Flats Turf and Gravel	5/28/2009	Renewal	33.5
Galen	Santo Montemorano Enterprises	MINE	80006	Montemorano Pit	8/31/2009	Renewal	44.0
Macedon	Eastern Sand & Gravel Inc	MINE	80566	Macedon II (Former Walworth Rd. Pit)	8/20/2009	Renewal	43.6
Macedon	Eastern Sand & Gravel Inc	MINE	80729	Daansen And Macedon Center Roads	4/1/2009	Renewal	6.5
Macedon	Morris Excavating Inc	MINE	80732	Niven-Harrison Materials	4/7/2009	Renewal	6.5
Sodus	Hanson Aggregates New York L	MINE	80031	Sodus Quarry	7/7/2009	Modification	111.9
Wolcott	Wolcott, Town of	MINE	80122	Maybe Bed	6/17/2009	Renewal	8.3
Wyoming							
Arcade	Cold Spring Construction Co	MINE	90398	Arcade Pit	5/13/2009	Renewal	4.0
Attica	Sawyer, Dean	MINE	90589	Sawyer Gravel Pit	6/25/2009	Renewal	5.0
Eagle	Neil Walter Brown DbA Telegra	MINE	90561	Telegraph Sand And Gravel	2/24/2009	Renewal	7.0
Pike	Verweire, Michael / Traczyk, W	MINE	90207	TV Pit	7/7/2009	Renewal	14.0
Pike	Walkley, Lincoln	MINE	90172	Westwind Aggregates Mine	2/5/2009	Renewal	28.0
Wethersfield	Java Materials Inc.	MINE	90889	Smith Corners Site	1/8/2009	New	11.3

Mine Commodities 2009

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	1,334	901	29	872
Sand and Gravel	11	27	564	521	278	243
Shale	1	8	137	139	32	107
Topsoil	0	2	44	44	43	1
County Totals	18	41	2,282	1,710	416	1,294
Allegany						
Clay	1	1	7	7	4	3
Glacial Till	0	2	3	2	2	0
Sand and Gravel	35	102	1,952	1,168	566	602
Sandstone	0	9	72	54	24	30
Shale	1	0	4	2	0	2
Topsoil	0	2	17	4	2	2
County Totals	37	116	2,055	1,236	598	638
Broome						
Bluestone	28	22	464	257	35	222
Clay	0	3	40	12	6	6
Glacial Till	0	3	19	19	19	0
Sand and Gravel	23	35	1,588	1,453	782	671
Shale	1	0	0	38	7	31
Topsoil	0	1	3	3	3	0
County Totals	52	64	2,114	1,782	852	930
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	69	71	4,927	2,826	1,297	1,529
Shale	0	4	21	21	21	0
Topsoil	0	1	15	15	15	0
County Totals	70	80	4,993	2,891	1,357	1,534
Cayuga						
Clay	2	4	75	41	22	19
Glacial Till	0	3	30	30	8	22
Limestone	1	0	225	44	0	44
Sand and Gravel	16	70	1,167	803	359	444
Shale	0	1	0	0	0	0
County Totals	19	78	1,497	918	389	529

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Chautauqua						
Clay	1	2	94	94	83	11
Glacial Till	0	2	35	28	28	0
Sand and Gravel	52	111	2,131	1,225	733	492
Sandstone	0	2	56	24	12	12
Topsoil	0	3	24	31	31	0
County Totals	53	120	2,340	1,401	887	514
Chemung						
Clay	0	1	4	4	4	0
Glacial Till	0	8	0	54	54	0
Sand and Gravel	26	52	1,240	1,029	470	577
Topsoil	2	8	178	154	40	114
County Totals	28	69	1,422	1,240	568	690
Chenango						
Bluestone	5	2	76	57	13	45
Clay	0	1	13	1	1	0
Sand and Gravel	34	68	1,575	1,183	363	820
Sandstone	1	0	89	21	0	21
Shale	1	9	22	25	14	11
Topsoil	0	1	9	0	0	0
County Totals	41	81	1,785	1,288	391	897
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	87	2,992	1,871	763	1,108
Sandstone	5	0	211	114	0	114
Stone	1	0	69	23	0	23
Topsoil	0	7	53	65	43	22
County Totals	63	97	3,558	2,233	812	1,420
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	31	52	1,644	1,314	510	804
Shale	0	1	3	3	3	0
County Totals	35	71	3,071	1,875	686	1,188
Cortland						
Glacial Till	0	5	19	34	29	5
Sand and Gravel	17	57	1,227	1,017	593	425
Shale	0	1	1	1	1	0
County Totals	17	63	1,247	1,052	622	430

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Delaware						
Bluestone	42	37	591	472	99	373
Clay	1	0	5	5	2	4
Sand and Gravel	32	99	1,185	1,047	459	588
Sandstone	1	0	131	131	0	131
County Totals	76	136	1,912	1,655	560	1,095
Dutchess						
Dolostone	3	0	833	568	11	557
Glacial Till	0	1	0	0	0	0
Granite	2	0	353	114	5	109
Peat	0	1	0	140	140	0
Sand and Gravel	52	104	3,213	2,859	1,858	1,001
Shale	0	1	0	5	5	0
Stone	0	1	70	70	70	0
County Totals	57	108	4,469	3,756	2,089	1,667
Erie						
Clay	11	14	392	297	235	70
Glacial Till	0	3	72	65	65	0
Limestone	3	0	1,197	907	400	507
Sand and Gravel	40	38	2,715	1,740	973	767
Shale	2	0	11	6	0	6
Topsoil	1	4	420	250	247	3
County Totals	57	59	4,807	3,265	1,920	1,353
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	35	58	1,179	694	221	473
Topsoil	0	1	0	10	10	0
Wollastonite	3	0	227	227	2	225
County Totals	42	64	2,001	1,247	380	868
Franklin						
Clay	1	0	17	13	6	7
Granite	1	0	108	77	0	77
Sand and Gravel	68	79	1,766	1,179	350	829
Sandstone	2	0	56	26	0	26
Topsoil	0	4	12	32	30	2
County Totals	72	83	1,958	1,327	386	941
Fulton						
Glacial Till	0	1	0	2	2	0
Granite	1	0	113	69	2	67
Sand and Gravel	24	32	1,151	577	228	349
Topsoil	0	1	8	7	7	0
County Totals	25	34	1,272	655	239	416

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
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	16	29	2,173	1,047	459	588
County Totals	22	31	3,477	1,972	518	1,454
Greene						
Bluestone	1	0	48	40	0	40
Clay	0	1	12	12	12	0
Dolostone	1	0	38	35	0	35
Glacial Till	0	1	10	10	10	0
Limestone	3	0	2,917	635	0	635
Sand and Gravel	10	19	298	248	123	125
Sandstone	1	1	129	18	4	14
Shale	6	3	265	173	22	151
Topsoil	0	1	8	8	8	0
County Totals	22	26	3,725	1,179	180	999
Hamilton						
Dolostone	1	0	35	35	0	35
Sand and Gravel	20	34	280	247	117	129
Stone	0	1	0	4	4	0
County Totals	21	35	315	286	121	164
Herkimer						
Clay	0	10	83	83	79	5
Dolostone	2	0	68	42	0	42
Limestone	3	0	681	484	6	478
Sand and Gravel	43	75	1,652	1,107	295	811
Topsoil	1	1	17	9	4	5
County Totals	49	86	2,502	1,724	384	1,341
Jefferson						
Clay	0	14	173	180	168	12
Granite	1	0	15	9	0	9
Limestone	17	9	1,327	1,055	27	983
Peat	0	3	46	23	14	9
Sand and Gravel	54	172	2,792	2,053	886	1,167
Shale	1	0	2	2	0	2
Topsoil	2	24	832	684	491	193
County Totals	75	222	5,186	4,006	1,586	2,375

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Lewis						
Clay	0	3	6	6	6	0
Limestone	4	6	339	129	9	120
Sand and Gravel	35	93	926	812	324	489
Shale	2	23	132	131	70	61
Topsoil	0	1	0	3	3	0
Wollastonite	1	0	54	44	8	36
County Totals	42	126	1,457	1,125	420	705
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	1,264	508	756
County Totals	24	39	10,518	2,005	552	1,453
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	18	51	1,751	1,064	477	587
Topsoil	0	1	49	0	0	0
County Totals	21	55	2,320	1,354	501	853
Monroe						
Dolostone	2	0	250	245	192	53
Glacial Till	0	6	25	71	71	0
Limestone	2	0	483	378	10	368
Sand and Gravel	8	29	1,357	958	687	271
County Totals	12	35	2,115	1,651	960	692
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	1	0	159	159	0	159
Sand and Gravel	2	0	431	291	0	291
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

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Nassau						
Sand and Gravel	1	4	334	334	330	4
County Totals	1	4	334	334	330	4
Niagara						
Clay	10	11	600	432	258	174
Glacial Till	0	1	10	10	10	0
Limestone	3	0	1,051	630	89	541
Sand and Gravel	2	14	196	188	159	29
Topsoil	1	0	5	5	0	5
County Totals	16	26	1,862	1,265	516	749
Oneida						
Clay	0	4	20	30	25	5
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	61	108	3,385	1,703	766	937
Shale	0	2	6	6	6	0
Topsoil	1	1	8	8	3	5
County Totals	64	119	4,360	2,130	816	1,315
Onondaga						
Clay	1	3	50	28	22	6
Glacial Till	1	17	201	208	185	23
Limestone	7	4	2,150	1,653	116	1,537
Sand and Gravel	28	39	1,307	1,047	573	474
Shale	0	4	80	18	18	0
Topsoil	2	5	194	156	128	28
County Totals	39	72	3,982	3,109	1,042	2,068
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	38	54	3,522	2,504	1,051	1,453
Topsoil	0	1	0	8	8	0
County Totals	40	59	4,240	2,951	1,096	1,855
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	31	103	2,416	2,069	1,225	844
Sandstone	1	0	95	43	0	43
Shale	5	18	464	354	81	273
Topsoil	0	1	10	10	10	0
County Totals	38	128	3,143	2,669	1,374	1,295

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
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	484	258	226
Sandstone	4	0	253	194	3	191
County Totals	19	20	1,644	1,023	401	622
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	91	135	5,897	3,602	1,502	2,100
Topsoil	3	2	159	88	38	50
County Totals	95	142	6,090	3,716	1,562	2,154
Otsego						
Bluestone	0	1	5	5	5	0
Clay	0	3	7	10	10	0
Sand and Gravel	32	45	1,236	1,005	394	610
Shale	0	5	20	4	2	2
Topsoil	1	0	5	3	0	3
County Totals	33	54	1,273	1,026	411	615
Putnam						
Limestone	1	0	56	56	0	56
Sand and Gravel	1	21	177	207	166	41
County Totals	2	21	233	263	166	97
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	50	77	2,615	1,948	438	1,510
Sandstone	4	0	352	181	0	181
Shale	1	1	149	142	6	136
County Totals	58	82	3,221	2,330	462	1,867
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

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
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	2,379	1,554	472	1,083
Shale	1	1	12	6	1	5
Topsoil	1	7	85	84	50	35
County Totals	61	104	3,717	2,433	701	1,731
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	350	303	91	212
Shale	1	1	26	12	6	6
County Totals	10	10	501	346	112	234
Schoharie						
Limestone	4	0	525	382	0	382
Sand and Gravel	11	16	223	208	70	138
Shale	2	6	30	27	10	17
County Totals	17	22	778	617	80	538
Schuyler						
Clay	0	1	0	20	20	0
Glacial Till	0	1	0	2	2	0
Sand and Gravel	16	24	543	463	135	328
Shale	0	1	0	1	1	0
Topsoil	0	1	2	2	2	0
County Totals	16	28	545	488	160	328
Seneca						
Clay	0	12	1,096	1,096	386	711
Limestone	1	0	515	282	0	282
Sand and Gravel	3	6	234	134	90	43
Shale	0	1	2	2	2	0
County Totals	4	19	1,847	1,513	478	1,035

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
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	70	2	68
Sand and Gravel	86	194	3,218	2,396	1,137	1,259
Sandstone	2	0	34	9	0	9
Talc	1	12	293	258	68	190
Topsoil	2	25	678	511	338	173
Zinc	1	4	1,684	549	117	432
County Totals	101	245	7,062	4,420	1,872	2,547
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	80	94	3,787	3,119	945	2,174
Sandstone	1	0	64	64	0	64
Topsoil	1	2	17	14	13	1
County Totals	82	103	3,879	3,277	1,038	2,239
Suffolk						
Sand and Gravel	34	54	1,834	1,810	648	1,162
County Totals	34	54	1,834	1,810	648	1,162
Sullivan						
Sand and Gravel	25	47	1,187	872	414	459
Sandstone	3	1	804	591	2	589
Shale	2	1	12	8	3	5
County Totals	30	49	2,003	1,472	419	1,053
Tioga						
Glacial Till	0	2	3	5	5	0
Sand and Gravel	30	54	2,820	2,248	1,165	1,084
Topsoil	1	1	31	23	18	5
County Totals	31	57	2,855	2,276	1,188	1,089
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	423	169	255
Topsoil	0	2	2	5	5	0
County Totals	14	33	749	576	292	284

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
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	24	71	1,594	1,140	678	461
Sandstone	1	1	15	15	4	11
Shale	13	23	285	224	94	130
Topsoil	0	1	0	10	10	0
County Totals	47	100	2,763	1,827	854	973
Warren						
Garnet	1	1	194	189	55	134
Granite	1	0	183	117	0	117
Limestone	1	0	21	21	0	21
Sand and Gravel	34	32	878	521	125	397
County Totals	37	33	1,276	848	180	669
Washington						
Clay	1	2	52	15	10	5
Dolostone	1	0	197	60	0	60
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	1,696	1,145	512	633
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
County Totals	57	87	2,572	1,549	556	994
Wayne						
Clay	0	1	28	28	28	0
Dolostone	2	0	647	274	18	256
Glacial Till	0	5	25	25	25	0
Limestone	1	0	72	57	0	57
Sand and Gravel	39	93	2,921	1,749	828	920
Topsoil	0	2	2	2	1	1
County Totals	42	101	3,694	2,134	900	1,234
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

Mine Commodities 2009

Mineral	Active Mines	Reclaimed Mines	Life Of Mine Acres	Affected Acres	Reclaimed Acres	Net Affected Acres
Wyoming						
Clay	0	1	8	8	8	0
Sand and Gravel	26	45	1,379	861	582	279
Topsoil	0	1	15	15	15	0
County Totals	26	47	1,402	884	605	279
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	2,094	3,872	158,083	103,328	36,940	66,369

Note: Mine Commodities Statistics were run August 2010

Mines With Final Reclamation During 2009

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Allegany						
Angelica	Angelica, Town of	90675	Closser Avenue/Angelica Creek Bars	Sand and Gravel	7/15/2009	3.0
Belfast	Belfast, Town of	90688	Genesee River Bar Mine	Sand and Gravel	5/12/2009	7.0
Friendship	Friendship, Town of	90498	Strahan Gravel Mine	Sand and Gravel	10/16/2009	1.0
Hume	Bower, Robert L & Donna R	90588	Bower Gravel Pit #1	Sand and Gravel	6/17/2009	4.0
Broome						
Windsor	Kohlbach, Norman and Eugene Salvato	70907	Body Of Christ Mine	Bluestone	5/20/2009	1.0
Cattaraugus						
Conewango	Cowen, Warren L	90297	Cowen Gravel Pit #1	Sand and Gravel	6/26/2009	3.0
Mansfield	Little Valley Sand & Gravel	90451	Toad Hollow Pit	Sand and Gravel	7/2/2009	5.0
Cayuga						
Mentz	McBride, William / C A McBride Co	70591	Town Line Pit, Town Line Rd. (Mentz)	Sand and Gravel	7/1/2009	16.0
Moravia	Randolph, William T	70468	Randolph Pit	Sand and Gravel	6/24/2009	7.2
Summerhill	Summerhill, Town of	70661	Reynolds Pit - NYS Route 41-A	Sand and Gravel	5/18/2009	8.0
Chautauqua						
Carroll	Maple Grove Farms	90325	Maple Grove Farms Mine	Sand and Gravel	6/30/2009	4.0
Clinton						
Mooers	Gonyo Farm Excavation LLC	50729	Arnold Gonyo Sand Mine	Sand and Gravel	7/20/2009	44.9
Mooers	LeClair, Armond	50314	LeClair Pit	Sand and Gravel	9/24/2009	35.0
Columbia						
Claverack	Gromax LLC	40688	Hess Farm/Roxbury Rd Mine	Sand and Gravel	8/26/2009	6.0
Delaware						
Hancock	Johnston & Rhodes Bluestone Co	40770	Wadeson Quarry	Bluestone	6/11/2009	5.0
Sidney	Fairchild, Steven	40747	Skytop Quarry	Bluestone	6/23/2009	5.0
Tompkins	NYS DEC - Operations Division	40422	Cannonsville Reservoir	Sand and Gravel	3/24/2009	1.0
Walton	Finch, Ralph	40751	Jerry Houck Quarry	Bluestone	9/17/2009	3.2
Dutchess						
Amenia	Darilee Inc	30025	Wassaic Pit	Sand and Gravel	7/15/2009	30.0
Stanford	Stanford, Town of	30486	Town Mine	Sand and Gravel	9/30/2009	7.0

Mines With Final Reclamation During 2009

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Essex						
Crown Point	Crown Point, Town of	50316	Macey Pit	Sand and Gravel	9/29/2009	6.0
Crown Point	Crown Point, Town of	50921	Crown Point Landfill Mine	Sand and Gravel	10/7/2009	2.0
Franklin						
Bellmont	Rifenburg Construction Inc	50775	Yando pit	Sand and Gravel	4/6/2009	5.0
Malone	Graymont Materials NY Inc	50348	Degon Pit	Sand and Gravel	8/6/2009	14.0
Malone	Schickel, Hugh	50419	Schickel Pit	Sand and Gravel	6/5/2009	11.0
Hamilton						
Arietta	Arietta, Town of	50247	Baker Pit	Sand and Gravel	9/16/2009	5.0
Jefferson						
Ellisburg	Williams, Morgan	61021	Mixer Road Pit	Sand and Gravel	10/30/2009	12.3
Henderson	Magos, David	61020	David Magos Sand Mine	Sand and Gravel	5/6/2009	5.0
Hounsfield	Hounsfield, Town of	60685	Rome State	Limestone	11/10/2009	50.0
Hounsfield	Hounsfield, Town of	60884	Bast Mine	Sand and Gravel	10/30/2009	1.0
Leray	G & J Trucking	60541	Evans Mills Operation	Sand and Gravel	9/25/2009	15.0
Madison						
Madison	Rasmussen Gravel Products LLC	70649	Ferguson Gravel Bed	Sand and Gravel	6/9/2009	6.0
Oneida						
Rome	Kelly, Daniel	60557	Hoag Rd Sand & Gravel Pit	Sand and Gravel	8/11/2009	5.0
Onondaga						
Manlius	Action Topsoil Inc	70184	Action Topsoil	Topsoil	2/26/2009	30.0
Skaneateles	Robinson Concrete Inc	70453	Barrigar Gravel Pit, Route 321	Sand and Gravel	11/3/2009	4.0
Ontario						
Canandaigua	Mark Colf Excavating Inc	80436	Hagadorn Pit	Sand and Gravel	10/1/2009	4.0
Manchester	Morris, I A	80819	Clifton Springs Mine	Sand and Gravel	10/1/2009	3.0
Orange						
Chester	Frozen Ropes Baseball Co	30490	Gateway Hill Professional Park	Shale	12/24/2009	9.0
Wallkill	Chester Industrial Park Assoc Lp	30091	Tarbell Rd. East	Sand and Gravel	6/24/2009	34.0
Orleans						
Barre	Waste Management of New York LLC	80098	Mix Road GP-6	Sand and Gravel	5/28/2009	38.0

Mines With Final Reclamation During 2009

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Oswego						
Hannibal	Hannibal, Town of	70775	Phillips Mine - Co. Rt. 85	Sand and Gravel	4/15/2009	5.4
Hannibal	Simmons, William	70645	Simmons Pit - Mill Street	Sand and Gravel	12/30/2009	4.0
Hastings	Brown Excavation Co Inc	70839	Brown - Wells Gravel Pit	Sand and Gravel	9/23/2009	5.0
Hastings	Earl Becker Construction Inc	70489	Parker Mine - Smith Road	Sand and Gravel	7/24/2009	3.0
Palermo	Oswego County DPW	70132	Rawson's Sand Pit - Besaw Road	Sand and Gravel	9/17/2009	30.0
Richland	Coffin, Robert E	70587	Coffin Farm Pit #2 - Co. Rt. 48	Sand and Gravel	5/22/2009	27.0
West Monroe	Brown Excavation Co Inc	70828	Slosson Road Mine	Sand and Gravel	8/21/2009	5.0
Otsego						
Laurens	Wilms, Joanne	40706	Mount Vision Sand And Gravel	Sand and Gravel	5/26/2009	8.0
Maryland	Seward Sand & Gravel Inc	40800	Ross Pit	Sand and Gravel	8/9/2009	11.0
Westford	NYS DEC	40606	Otsego #13 Shale Mine	Shale	2/25/2009	1.0
Putnam						
Philipstown	WB Philipstown LLC	30517	Quarry Pond Mine	Sand and Gravel	9/14/2009	23.0
Rensselaer						
Berlin	Berlin, Town of	40568	Nelson Tanner Property/ Airport Rd.Pit	Sand and Gravel	1/8/2009	7.0
Sand Lake	Dahl, John W & Eric M	40838	Dahl Property Mine	Sand and Gravel	6/19/2009	6.0
St. Lawrence						
Clifton	Newton Falls Fine Paper Company LLC	60609	Sand Pit	Sand and Gravel	8/14/2009	3.0
Edwards	R. T. Vanderbilt Company Inc, Gouver	60050	Number 3 Mine	Talc	10/15/2009	5.0
Fine	NYS DEC	60887	Lassiter Site	Sand and Gravel	9/23/2009	3.0
Hopkinton	Randall, Ralph N. & Constance M.	61026	Hopkinton Pit	Sand and Gravel	8/12/2009	4.1
Lisbon	St Lawrence County	60939	Wagner Road Site	Topsoil	3/19/2009	4.0
Norfolk	Curran Logging Inc	60114	Larue Pit	Sand and Gravel	5/12/2009	15.6
Suffolk						
Brookhaven	Suffolk Material Mining	10031	Suffolk Material Mining	Sand and Gravel	6/8/2009	12.0
Smithtown	Pomaro Industries Inc	10059	Pomaro Industries	Sand and Gravel	8/31/2009	3.0

Mines With Final Reclamation During 2009

Town	Company	MineID	Mine Name	Commodity	Date	AcresAffected
Tioga						
Barton	Porter's Concrete Service Inc	70320	Waverly - Pit #2 - Shepard Road	Sand and Gravel	9/24/2009	62.0
Barton	Porter's Concrete Service Inc	70667	Schneider Mine	Sand and Gravel	6/10/2009	29.0
Candor	Candor, Town of	70593	Candor Gravel Pit -Nys Route 96	Sand and Gravel	10/7/2009	11.0
Owego	Taylor Garbage Service Inc	70036	Steen Tract Mine, Route 434 Pit	Sand and Gravel	12/1/2009	63.0
Wyoming						
Covington	Herrmann, Keith	90918	Keith Herrmann Gravel Pit	Sand and Gravel	6/11/2009	2.0
Java	North Country LLC	90991	Java Gravel Mine	Sand and Gravel	7/31/2009	5.0
Pike	Robb, Donald Sr	90482	Robb Gravel Pit	Sand and Gravel	6/2/2009	48.0