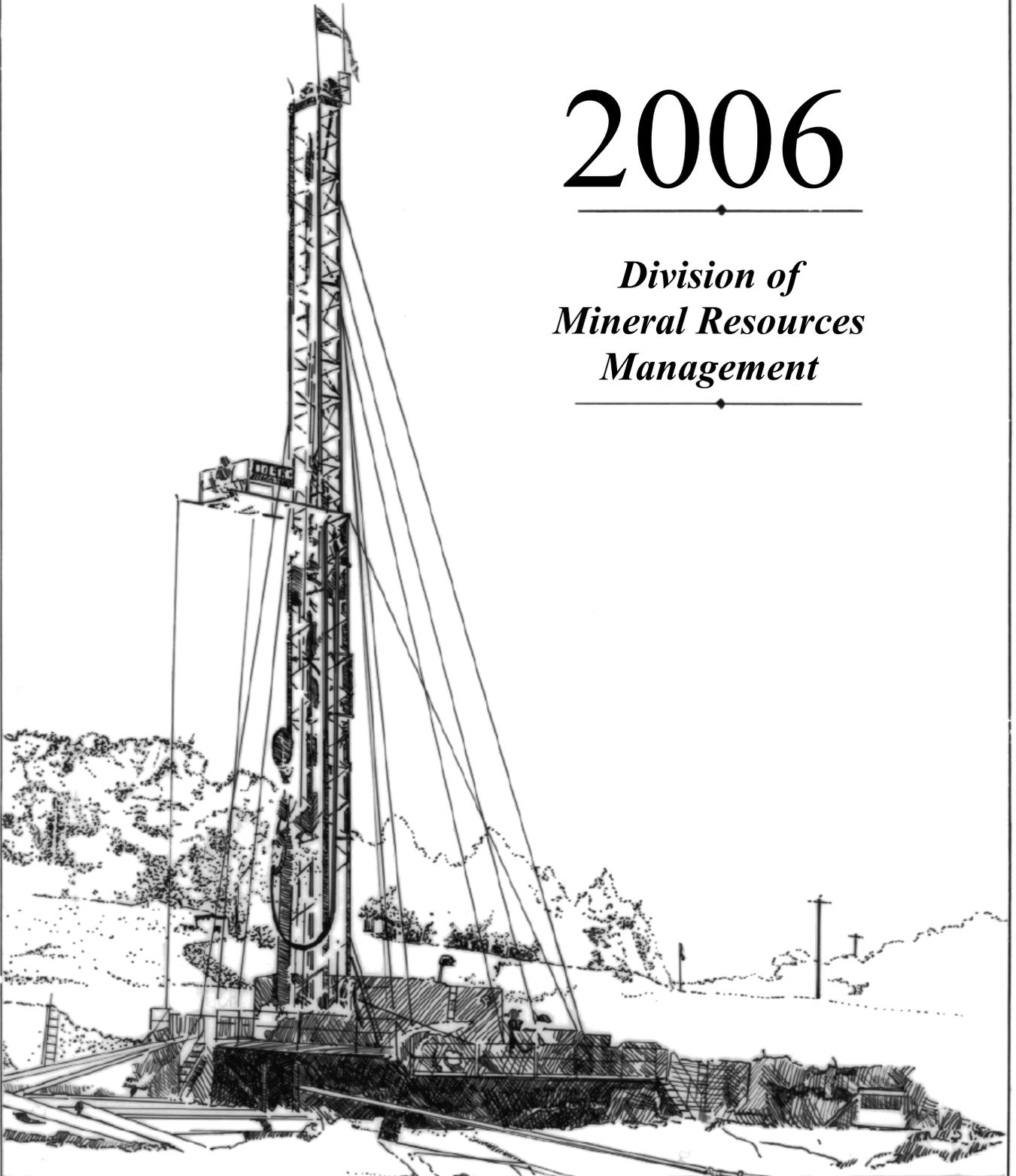


SUMMARY OF OHIO OIL AND GAS ACTIVITIES

2006

*Division of
Mineral Resources
Management*



Who We Are

The Division of Mineral Resources Management provides for the safe and environmentally sound development and restoration of mineral and fossil fuel extraction sites.

Diverse and comprehensive programs address the environmental and safety aspects of the coal and mineral mining, and oil and gas extraction industries, while maintaining high standards of regulatory effectiveness.

The division also plugs abandoned oil and gas wells and restores abandoned mine lands, enforces mining safety laws, ensures protection of freshwater resources, and maintains a database of oil and gas well owners.

Program and support services include Permitting/Hydrology/Bonding, Field Inspection/Enforcement, Abandoned Mine Lands, Mine Safety, and Administration/ Human Resources/Financial Support.

Expertise is provided by a professional staff of geologists, environmental specialists, engineers, blasting specialists, soil scientists, hydrologists, archaeologists, and hydrogeologists.

Funding for programs comes from severance taxes on coal, minerals, oil and gas; federal grants; and general revenue funds.

For more information about the division, go to www.ohiodnr.com/mineral.

Introduction

This forty-second edition of the Summary of Ohio Oil & Gas Activities (**The McCormac Report**) remains dedicated to accurately presenting statistics that may reflect trends important to Ohio's oil and gas industry, citizens and other governmental agencies. This report includes data submitted through March 9, 2007. You may also note that some 2005 statistics have been adjusted to include well completion reports received after last year's cut-off date. The 2005 report estimated 711 wells were drilled; the total number has been revised to 724. There are no major revisions in this years report.

Highlights include:

- 5,566 registered well owners, including 4,120 domestic owners, operating 62,966 wells.
- Issued 2,291 permits, including 1,239 drilling permits.
- Issued 289 urbanized area permits in 19 counties.
- Drilled an estimated 952 oil and gas wells in 42 of Ohio's 88 counties.
- Monroe County was the most active county with 79 wells drilled.
- Produced 5,422,194 barrels of crude oil, at an average price of \$62.43 per barrel.
- Produced more than 86 billion cubic feet of natural gas, at an average price of \$7.75 per mcf.
- The combined market value of crude oil and natural gas production was \$1,007,449,596.
- 577 wells were plugged including 51 contracted by the Orphan Well Program.

To make oil and gas well data more accessible, the Division:

- Distributed 140 copies of RBDMS, our oil and gas well database;
- Updated our oil and gas well database, RBDMS, with historical well information.

We are currently working on:

- Updating the Emergency Oil and Gas Well Locator website;
- Updating Division web pages for oil and gas information;
- Rules implementing Spill Prevention, Control and Counter measures (SPCC) .

The Permitting program said goodbye to Jim Glass and Tom Tugend who retired near the end of the year. Both were long time employees and had integral roles in the program. They will be missed.

Mike McCormac
Manager, DMRM Oil and Gas Permitting Program

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Permitting

The Division issued 2,291 permits, a decrease of 97 (4%) from 2005 (Figure 1). This total includes permits issued to convert, deepen, drill, plug back, plug and abandon, reissue and reopen. Permits were issued in 14 days on average, compared to 15 days in 2005.

Permits issued to drill for oil and gas totaled 1,239, a 22.6% increase (228 permits) from last year. These permits included 1,092 new permits and 147 reissued permits. Clinton sandstone permits increased by 208 for a total of 796 and accounted for 64% of all drill permits. Devonian shale permits increased by 23 for a total of 152 and accounted for 12% of all drill permits. Deep well permits decreased by 22 for a total of 128 and accounted for 10% of all drill permits. Deep well permits are those issued to drill to formations below the Cambro-Ordovician Knox unconformity such as the Beekmantown dolomite, Rose Run sandstone, Trempealeau dolomite and Mt. Simon Sandstone. Berea sandstone permits increased by 37 for a total of 104.

Eight hundred and eighty-two plugging permits were issued, a decrease of 379 (30%) from 2005, which includes 98 permits for the Orphan Well Program.

Notable permitting highlights for 2006 include:

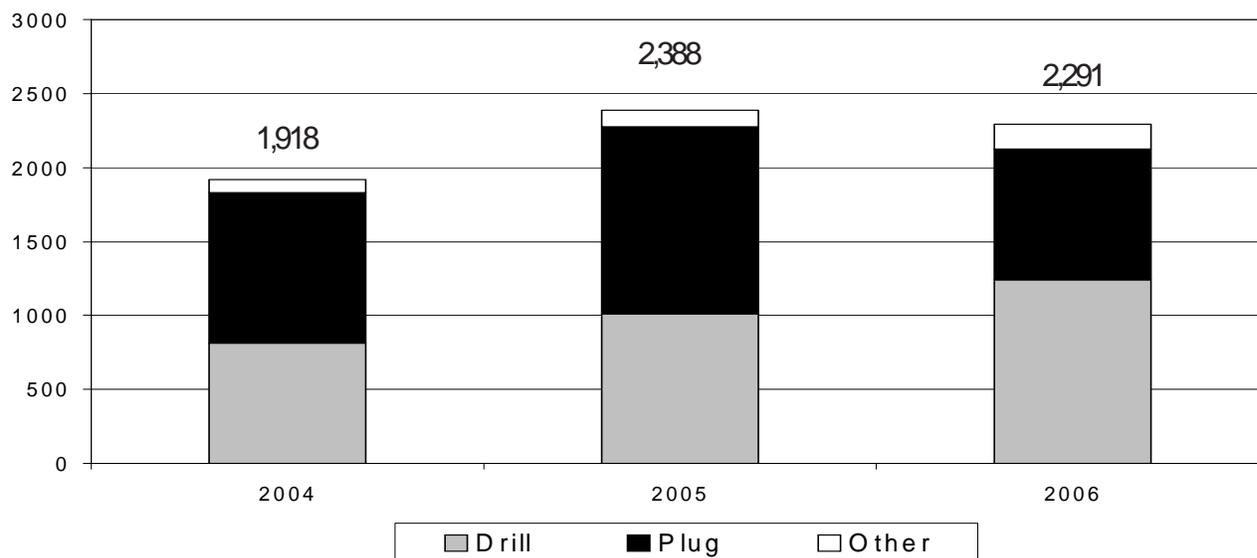
- Issued 289 urbanized area permits in 19 counties (an increase of 49). The top five counties were Cuyahoga (72), Lake (40), Geauga (31), Summit (25) and Stark (24);
- Reviewed 19 mandatory pooling applications;
- Processed 47,204 production reports for 2005.

Bonding/Ownership

Oil and gas well bond release does not occur until an owner has successfully plugged and restored or transferred ownership and liability of *all* oil & gas wells under the operator's permits in Ohio. During 2006, 157 bonds were released and 179 new owners were registered.

Section staff also manages all information and records concerning current well ownership and well transfers. During 2006, records were managed for 5,566 registered well owners including 4,120 domestic owners and 1,446 commercial owners. Staff also recorded 2,413 changes in well ownership. There are 62,966 active wells in Ohio.

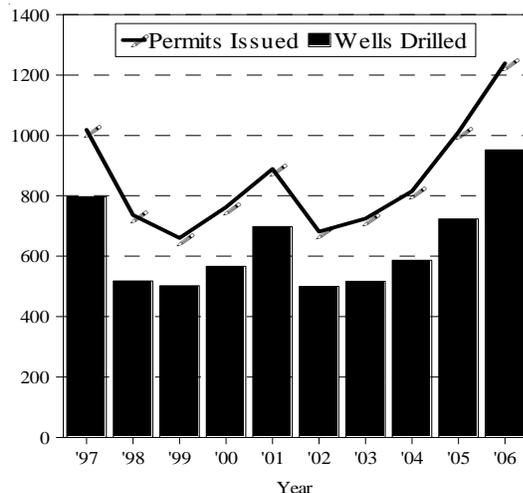
**Figure 1 - Oil & Gas Permits Issued
2004 - 2006**



Drilling

Record market prices and active urbanized drilling led to an increase in the number of wells drilled. In 2006, an estimated 952 oil and gas wells were drilled, which was an increase of 228 wells (31%) from 2005 (Figure 2). It was the highest year since 1991 (Appendix I). Wells were drilled in 42 of Ohio's 88 counties, a decrease of 5 (Figure 3).

Figure 2 - Drill Permits vs. Wells Drilled 1997 - 2006



Completions

Of the well completion reports submitted by March 9, 2007 to the division, 722 were productive and 43 were dry holes, for a 94% completion rate. See Table I.

- Total footage is estimated at 3,788,219 feet compared to 2,856,376 for 2005.
- Average well depth was 3,979 feet, an increase of 28 feet per well.
- The median well depth was 4,050 feet.
- Total depths ranged from 400 feet in the Ohio Shale (Lorain County) to 7,880 feet in the Beekmantown dolomite (Tuscarawas County).

A summary of oil and gas completion statistics by county appears in Table II.

Completion zones ranged from the Pennsylvanian Coal to the Precambrian granite. Washington County had wells drilled to six different geologic zones. The Ohio Shale and Clinton sandstone accounted for 78% of all wells drilled. A summary of oil and gas completion statistics by producing zones appears in Table III.

Formation Highlights

The Clinton sandstone was the most actively drilled zone with 64% percent of all wells drilled. An estimated 614 wells were drilled, 214 more than the 400 wells drilled in 2005. Clinton sandstone wells averaged 4,341 feet in depth, a decrease of 118 feet per well. Clinton sandstone wells were drilled in 27 counties, one less than last year. The most active counties were: Stark (63), Cuyahoga (52), Geauga (44), Coshocton and Lake (41 each).

An estimated 130 wells were drilled to the Ohio Shale, an increase of 16 wells. Drilling occurred in 10 counties. Monroe County led with 74 wells followed by Noble (32) and Washington (8). The average depth per well was 2,658 feet, an increase of 127 feet per well.

An estimated 83 Berea Sandstone wells were drilled, 36 more than last year. Drilling occurred in 10 counties. Perry led with 27 wells followed by Morgan (15) and Ashland (12).

Drilling to the Knox formation continued to decline. There were only 77 wells drilled, 38 less in 2005.

The bright spot was the Beekmantown dolomite with an estimated 39 wells drilled, an increase of 16 wells. Drilling occurred in 3 counties with Tuscarawas (16), Guernsey (15) and Muskingum (8) the most active. The average depth per well was 7,084 feet, an increase of 41 feet per well.

Wells Completed by Month and Owner

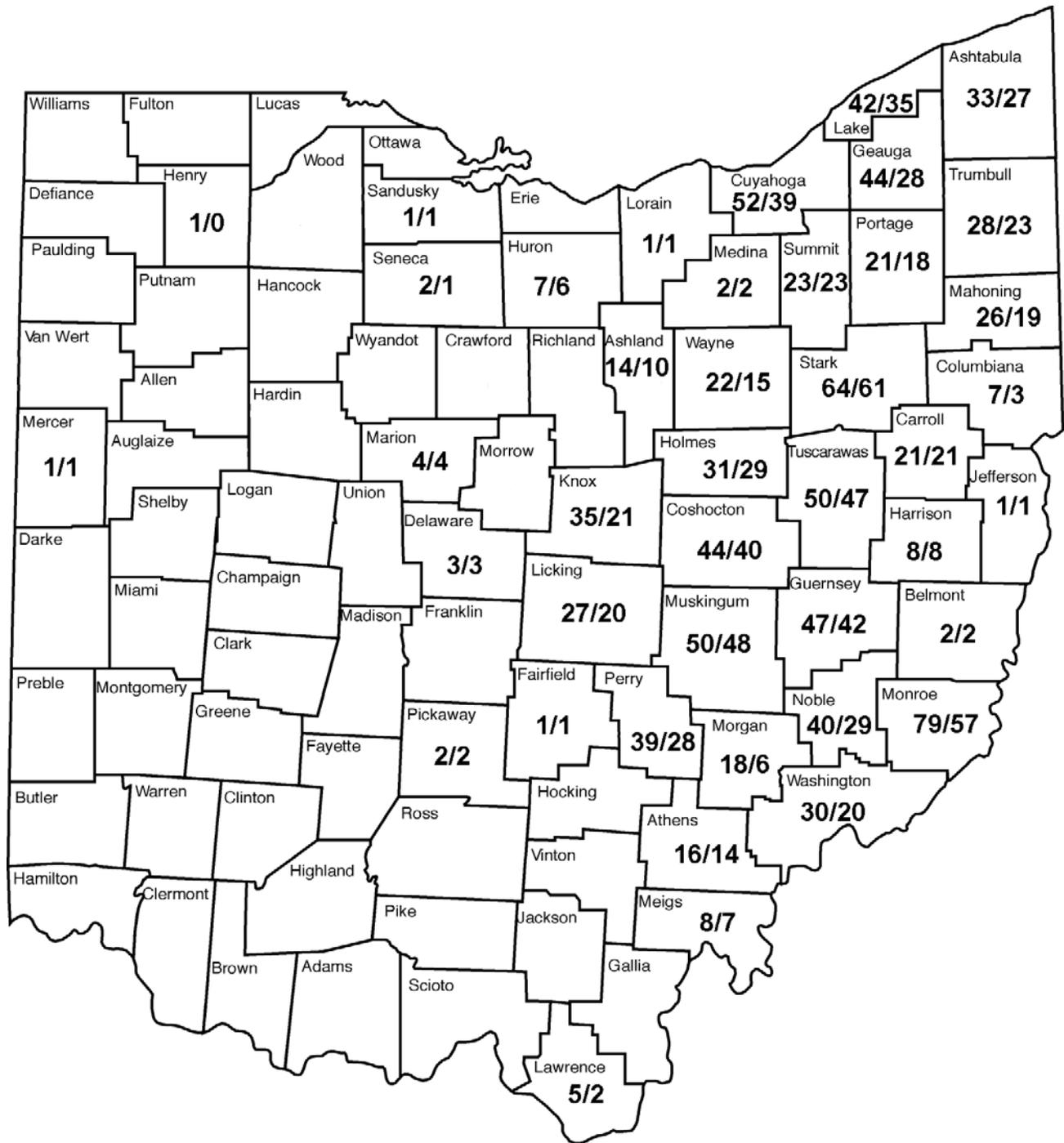
Drilling was active every month. Drilling activity averaged 79 wells per month compared to 59 per month in 2005. October was the most active month with 105 wells (Figure 4).

One hundred and forty-seven owners drilled wells in 2006. Eighty-five percent of these owners drilled 10 wells or less. The highest number of wells drilled by a single owner was 92 (Figure 5) and twenty-two operators drilled 60% (574) of all wells.

Wells Completed by Type of Tool

Rotary tools drilled the majority of wells. Cable-tool rigs drilled 26 wells and operated in 11 counties. Knox (7) and Licking (5) counties had the highest number of cable tool operations. Cable tool depths ranged from 566 feet (Huron County) to 3,390 feet

Figure 3 - Wells Drilled and Completions Received by County - 2006



(Coshocton County). The average depth per well drilled by cable tool was 1,861 feet, an increase of 375 feet; rotary-drilled wells averaged 4,054 feet, a decrease of 33 feet per well.

Plug-back and Deepen Operations

Eleven wells were dry in their permitted formation but plugged back to produce a shallower zone. Another forth-seven existing wells were plugged back to producing zones, and 6 existing wells were drilled to a deeper producing formation.

TABLE I – DRILLING OPERATIONS BY TYPE OF WELL – 2006

	Drilled	Converted	Total Footage
Productive Wells	722		2,851,955
Dry Holes	43		192,191
Reopened Wells	25		0
Lost Holes	13		9,935
Gas Storage Wells	0	0	0
Conventional Brine Injection Wells	1	0	4,255
Stratigraphic Test Wells	0		0
Solution Mining Wells	3	1	10,695
TOTAL	807	1	3,069,031

Ten Most Active Counties

Monroe County, ranked first in 2005, repeated as the most active county with 79 wells drilled, an increase of 13 wells (Table IV). Stark County had an increase of thirteen wells and remained in second place. Drilling in urbanized areas had an impact on the top-ten, most noticeably in Cuyahoga and Stark Counties.

Nine of these counties were in the top-ten last year. Guernsey, with an increase of 34 wells, is in the top-ten for the first time since 1979. Several other counties had significant increases in drilling. The biggest increases occurred in Holmes (22), Muskingum and Tuscarawas (21 each). The biggest decreases took place in Geauga (9) and Medina County (6).

Directional Drilling

Thirty-seven directional drilling permits, the same as in 2005, were issued to drill wells in twelve counties. The most active counties were Cuyahoga (14) and Lawrence (11). The majority of directional drilling permits (21) targeted the Clinton. Nine horizontal permits targeted the Ohio Shale.

Exploratory Wells

Approximately 6% of all wells completed were classified as exploratory (Figure 6). Twenty-eight wells were productive and 17 were dry holes, representing a 62% success rate. Wells were drilled in 24 counties. The following counties were the most active: Washington (6), Cuyahoga (5), and Morrow (4).

The majority of exploratory wells were classified as either ‘outposts’ (18), ‘wildcats’ (12) or ‘deeper pool wildcats’ (9). Productive rates were as follows: ‘outposts’ 78%, ‘wildcats’ 50% and ‘deeper pool wildcats’ 44%.

Wells drilled below the Knox unconformity accounted for only 33% (15) of all exploratory drilling; 6 of these wells (40%) were productive. The Cambrian Trempealeau dolomite had 5 exploratory tests, of which 2 were productive. The Cambro-Ordovician Rose Run sandstone accounted for 7 of these wells; 3 were productive. One of the two exploratory wells drilled to the Ordovician Beekmantown dolomite was productive.

TABLE II - OIL AND GAS COMPLETION STATISTICS BY COUNTY – 2006

County	Depth Range of Reservoirs		Major Targeted Reservoirs	Development		Exploratory		Total Wells	Percent Productive	Drilled Footage		
	Shallow	Deep		Productive	Dry	Productive	Dry			Productive	Dry	Total
Ashland	523	2,883	Berea	9	1	0	0	10	90.00	8,963	820	9,783
Ashtabula	2,720	5,974	Clinton	27	0	0	0	27	100.00	97,554	0	97,554
Athens	1,789	4,135	Oriskany	14	0	0	0	14	100.00	43,145	0	43,145
Belmont	4,699	5,868	Ohio Shale	1	0	1	0	2	100.00	13,768	0	13,768
Carroll	5,142	5,794	Clinton	21	0	0	0	21	100.00	116,251	0	116,251
Columbiana	5,105	5,315	Clinton	3	0	0	0	3	100.00	16,239	0	16,239
Coshocton	3,130	6,806	Clinton	37	1	1	1	40	95.00	161,656	9,189	170,845
Cuyahoga	2,738	3,958	Clinton	33	1	5	0	39	97.44	135,374	3,490	138,864
Delaware	3,120	3,269	Trempealeau	1	0	2	0	3	100.00	9,995	0	9,995
Fairfield	4,064	4,076	Rose Run	1	0	0	0	1	100.00	4,090	0	4,090
Geauga	3,482	4,239	Clinton	28	0	0	0	28	100.00	114,865	0	114,865
Guernsey	1,100	7,096	Clinton	36	5	1	0	42	88.10	210,225	32,838	243,093
Harrison	464	5,836	Coal	8	0	0	0	8	100.00	14,681	0	14,681
Holmes	2,998	6,232	Clinton	28	0	0	1	29	96.55	119,170	6,063	125,233
Huron	170	3,841	Trempealeau	0	3	1	2	6	16.67	566	17,644	18,210
Jefferson	4,920	4,926	Oriskany	1	0	0	0	1	100.00	5,025	0	5,025
Knox	663	4,656	Clinton	17	3	1	0	21	85.71	53,754	9,198	62,952
Lake	2,814	3,548	Clinton	34	0	1	0	35	100.00	116,499	0	116,499
Lawrence	1,841	3,550	Clinton	0	1	0	1	2	0.00	0	6,941	6,941
Licking	616	4,972	Clinton	18	0	1	1	20	95.00	53,005	4,972	57,977
Lorain	301	400	Ohio Shale	0	0	1	0	1	100.00	400	0	400
Mahoning	4,979	5,636	Clinton	19	0	0	0	19	100.00	103,140	0	103,140
Marion	1,313	1,645	Trenton	0	0	1	3	4	25.00	1,760	4,660	6,420
Medina	3,536	5,598	Clinton	2	0	0	0	2	100.00	7,483	0	7,483
Meigs	1,600	4,224	Oriskany	5	0	2	0	7	100.00	21,583	0	21,583
Mercer	1,104	1,136	Trenton	1	0	0	0	1	100.00	1,420	0	1,420
Monroe	845	2,805	Ohio Shale	55	1	1	0	57	98.25	143,945	862	144,807
Morgan	1,310	4,190	Berea	6	0	0	0	6	100.00	11,204	0	11,204
Muskingum	1,125	7,029	Clinton	44	2	0	2	48	91.67	168,459	25,129	193,588
Noble	1,518	5,734	Ohio Shale	27	0	1	1	29	96.55	79,931	4,850	84,781
Perry	900	6,231	Berea	24	2	0	2	28	85.71	51,501	9,370	60,871
Pickaway	2,300	2,570	Trempealeau	1	0	1	0	2	100.00	4,881	0	4,881
Portage	3884	4,788	Clinton	18	0	0	0	18	100.00	79,247	0	79,247
Sandusky	2,252	2,290	Trempealeau	0	1	0	0	1	0.00	0	2,290	2,290
Seneca	2,700	2,711	Trempealeau	0	0	0	1	1	0.00	0	2,711	2,711
Stark	3,954	6,630	Clinton	60	0	1	0	61	100.00	298,549	0	298,549
Summit	3,479	4,006	Clinton	23	0	0	0	23	100.00	93,066	0	93,066
Trumbull	4,356	5,438	Clinton	22	0	1	0	23	100.00	118,976	0	118,976
Tuscarawas	4,180	7,880	Clinton	41	5	1	0	47	89.36	233,221	36,718	269,929
Washington	1,145	7,350	Clinton	14	0	4	2	20	90.00	82,339	14,446	96,785
Wayne	3,050	4,200	Clinton	15	0	0	0	15	100.00	56,005	0	56,005
TOTAL				694	26	28	17	765	94.38	2,851,955	192,191	3,044,146

Note: No completion information was available for **Henry County** at the time of this printing.

TABLE III - OIL AND GAS COMPLETION STATISTICS BY PRODUCING ZONE – 2006

Producing Zones	Reservoir Depth Range		Development Wells		Exploratory Wells		Total Wells	Percent Productive	Drilled Footage		
	Shallow	Deep	Productive	Dry	Productive	Dry			Productive	Dry	Total
Pennsylvanian (Coal - Cow Run)	464	860	6	1	0	0	7	85.71	2,988	862	3,850
Mississippian (Maxville - Keener)	1,145	1,505	2	0	1	0	3	100.00	4,631	0	4,631
Mississippian (1st & 2nd Berea)	523	2,278	49	4	1	1	55	90.91	65,742	4,715	70,457
Devonian (Ohio Shale)	301	5,868	89	1	6	0	96	98.96	251,771	3,391	255,162
Devonian (Oriskany)	3,616	4,926	10	0	2	1	13	92.31	49,559	4,850	54,409
Silurian (Salina)	4,316	4,505	1	0	0	0	1	100.00	4,527	0	4,527
Silurian (Clinton - Medina)	2,130	7,350	501	3	10	3	517	98.84	2,214,390	29,880	2,244,270
Ordovician (Trenton)	1,104	3,999	1	1	2	3	7	42.86	6,842	8,659	15,501
Ordovician (Beekmantown)	5,459	7,880	23	10	1	1	35	68.57	171,938	76,002	247,940
Cambro-Ordovician (Rose Run)	2,564	7,029	6	1	3	4	14	64.29	48,390	31,772	80,162
Cambrian (Trempealeau)	2,300	4,656	6	5	2	3	16	50.00	31,177	27,088	58,265
Precambrian	4,912	4,972	0	0	0	1	1	0.00	0	4,972	4,972
TOTAL			694	26	28	17	765	94.38	2,851,955	192,191	3,044,146

**Figure 4 - Wells Completed by Month
2005 - 2006**

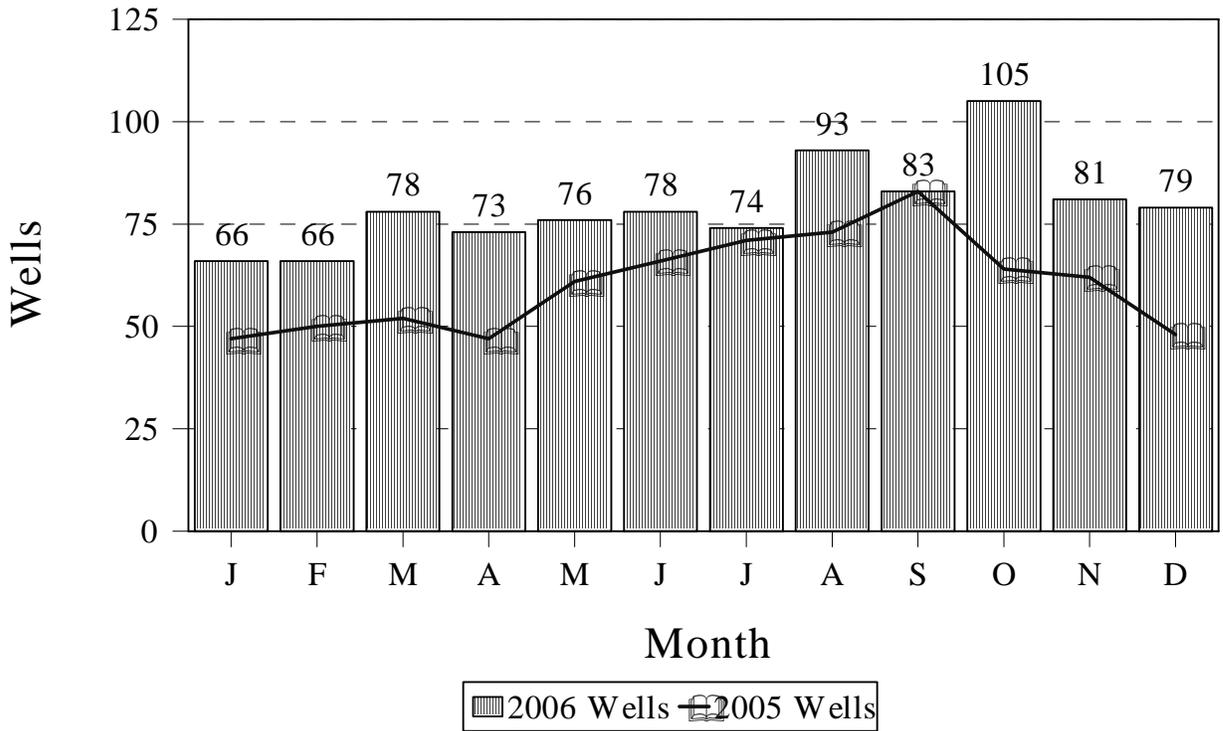


Figure 5 - Wells Completed by Owner - 2006

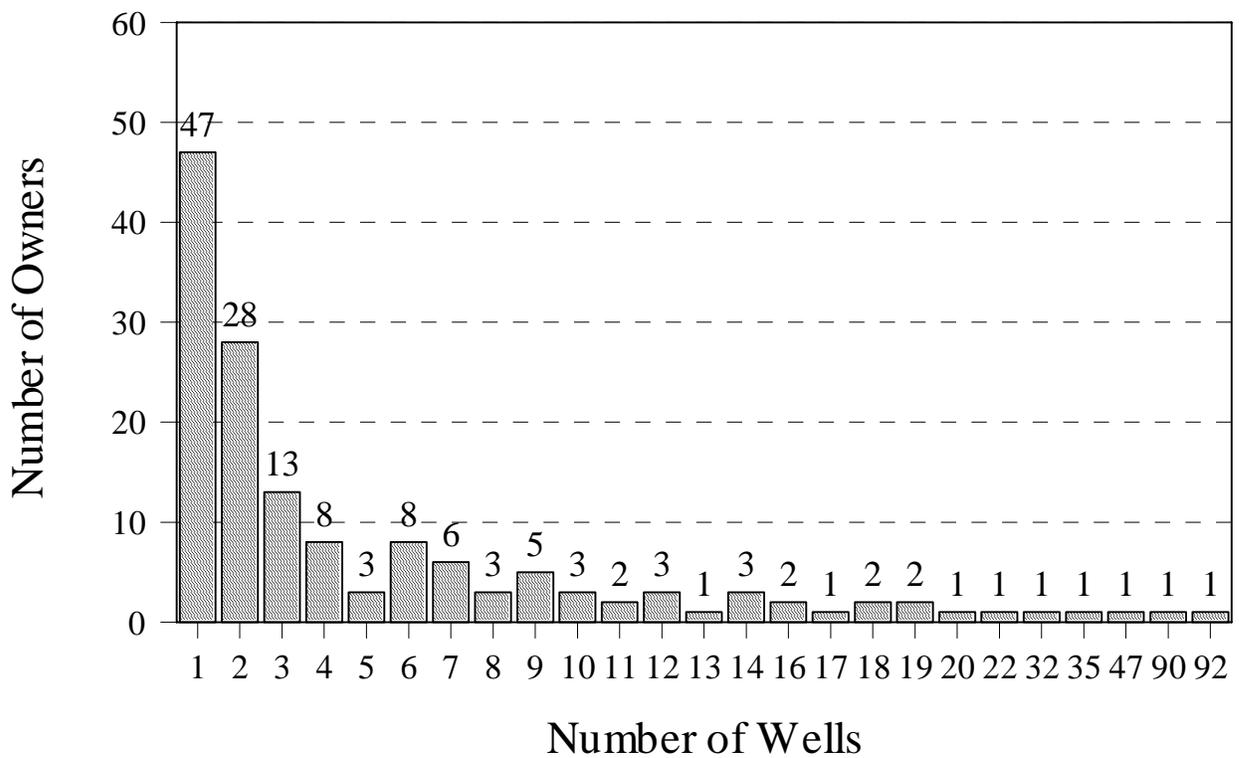
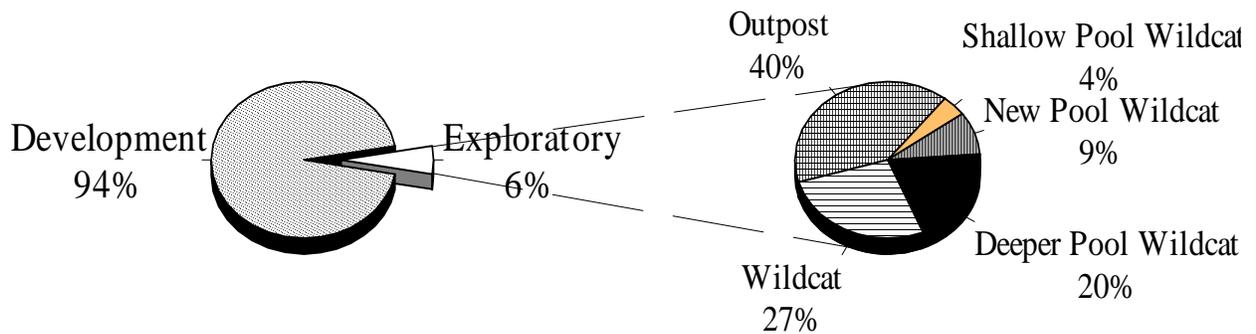


TABLE IV - TEN MOST ACTIVE COUNTIES - 2006

2006 Rank	County	Wells Drilled	2005 Rank	Avg. Depth Per Well	Footage Drilled
1	Monroe	79	(1)	2,540	144,807
2	Stark	64	(2)	4,894	298,549
3	Cuyahoga	52	(6)	3,561	138,864
4	Muskingum	50	(8)	4,033	193,588
4	Tuscarawas	50	(9)	5,743	269,929
6	Guernsey	47	(18)	5,788	243,093
7	Coshocton	44	(4)	4,271	170,845
7	Geauga	44	(3)	4,102	114,865
9	Lake	42	(6)	3,329	116,499
10	Noble	40	(4)	2,923	84,781

Figure 6 - Development vs. Exploratory Wells - 2006



County Drilling Depth Records

There were no new drilling depth records (Appendix II).

Production

Ohio's total reported crude oil production was 5,422,194 barrels (Figure 7, Table V), a decrease of 229,511 barrels (4.06%) from 2005. In 2006, daily production averaged 14,855 barrels compared to 15,484 barrels in 2005. Through 2006, Ohio wells have produced 1,115,725,579 barrels.

Ohio wells produced 86,315,100 mcf of natural gas, an increase of 2,180,080 mcf (2.59%) from 2005 (Figure 7, Table V). Gas production figures include an estimated 854,605 mcf of natural gas used on the lease. In 2006, daily production averaged 236,480 mcf compared to 230,507 mcf in 2005. Through 2006, Ohio wells have cumulatively produced 8,180,199,558 mcf of natural gas.

The 2006 production totals were compiled by the Ohio Oil and Gas Association; oil reserve, gas reserve and gas consumption totals are based on data from the Department of Energy, Energy Information Administration.

**Figure 7 - Oil & Gas Production
1997 - 2006**

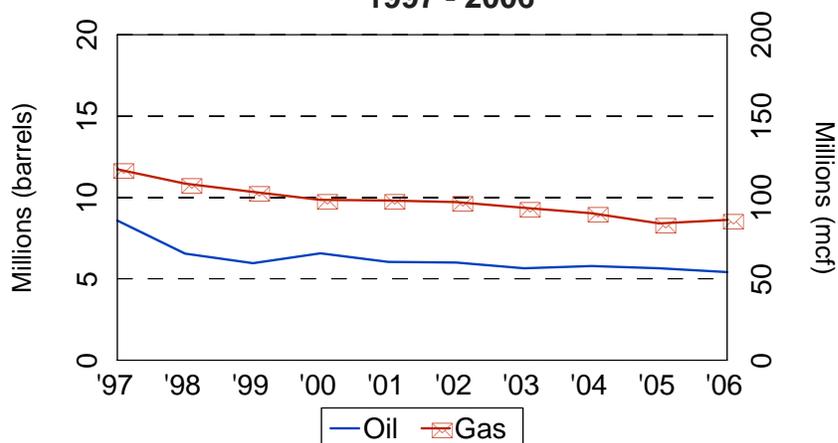


TABLE V – CRUDE OIL & NATURAL GAS PRODUCTION, RESERVES & CONSUMPTION – 1997 - 2006					
Year	OIL (thousands of barrels)		GAS (mmcf)		
	Production	Reserves	Production	Reserves	Consumption
1997	8,593	43,000	117,408	985,000	898,777
1998	6,541	40,000	108,542	890,000	813,022
1999	5,968	51,000	103,541	1,179,000	841,966
2000	6,574	59,000	98,551	1,185,000	890,962
2001	6,050	46,000	98,255	970,000	804,243
2002	6,004	67,000	97,154	1,117,000	830,955
2003	5,647	66,000	93,641	1,126,000	848,388
2004	5,785	49,000	90,301	974,000	825,753
2005	5,652	46,000	84,135	898,000	826,320
2006	5,422	N/A	86,315	N/A	N/A

Market Value

Crude oil production valued at \$338,507,571, increased 12.95% (\$38,797,655) from its 2005 value. The average price per barrel was \$62.43, a 17.7% increase from 2005's average price of \$53.03 per barrel (Table VI). Posted oil prices ranged from a low of \$52.00 (Nov. 18th-21st) to a high of \$73.00 (July 15th-17th) per barrel.

Year	Oil \$/Bbl	Gas \$/Mcf
1997	\$17.68	\$2.74
1998	\$11.73	\$2.24
1999	\$16.20	\$2.41
2000	\$26.76	\$4.06
2001	\$21.84	\$4.49
2002	\$22.50	\$3.56
2003	\$27.64	\$5.90
2004	\$38.00	\$6.65
2005	\$53.03	\$9.03
2006	\$62.43	\$7.75

The market value of natural gas decreased 11.95% (\$90,797,256) to \$668,942,025. The average price paid per mcf was \$7.75 in 2006, a decrease of \$1.28 per mcf from 2005 (Table VI). The Appalachian price index, based on a weighted average between Columbia and Dominion, ranged from a low of \$4.23 in October to a high of \$11.93 in January.

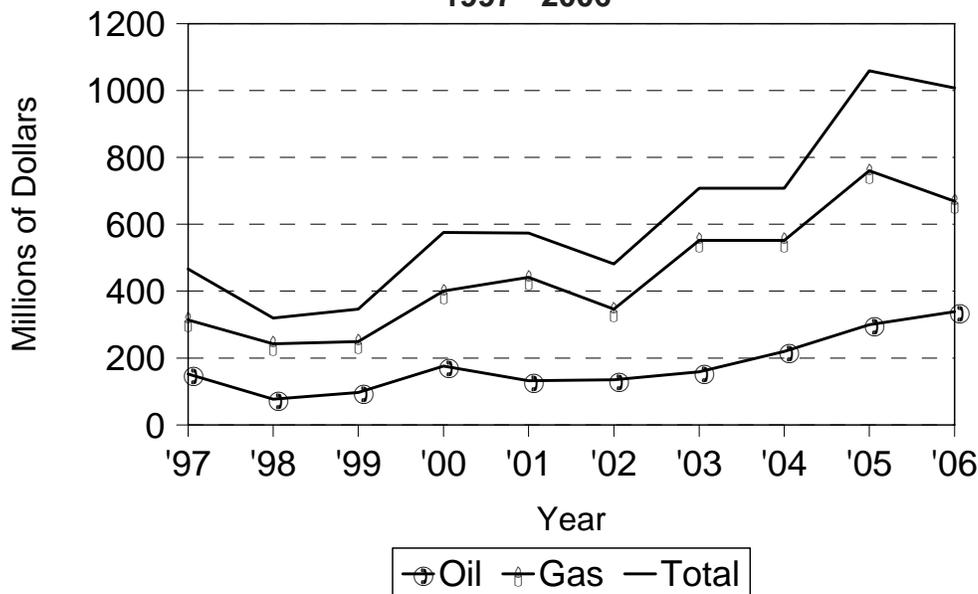
Ohio's combined oil and gas market value decreased by 4.91% (51,999,601). The total dollar value (\$1,007,449,596) exceeded the 1 billion dollar mark for the second straight year and only the third time ever, with 1984 being the first time (Figure 8).

Plugging Activity

This year well plugging declined and drilling increased significantly, making 2006 the third time in the last four years that drilling has outpaced plugging (Figure 9). In 2006, 577 wells were plugged compared to 818 in 2005. This total does not include dry or lost holes that were plugged in 2006. Fifty-one of these wells were plugged through the Orphan Well Program including 49 funded through the Landowner Grants Program. Additionally, 23 previously plugged wells were reopened for the purpose of replugging them.

Wells were plugged in 46 counties (Figure 10). Muskingum County (68) repeated as the most active plugging county followed by Perry (46), Licking (38), Summit (34) and Coshocton (33).

**Figure 8 - Dollar Value of Oil & Gas
1997 - 2006**



**Figure 9 - Wells Plugged vs. Wells Drilled
1997 - 2006**

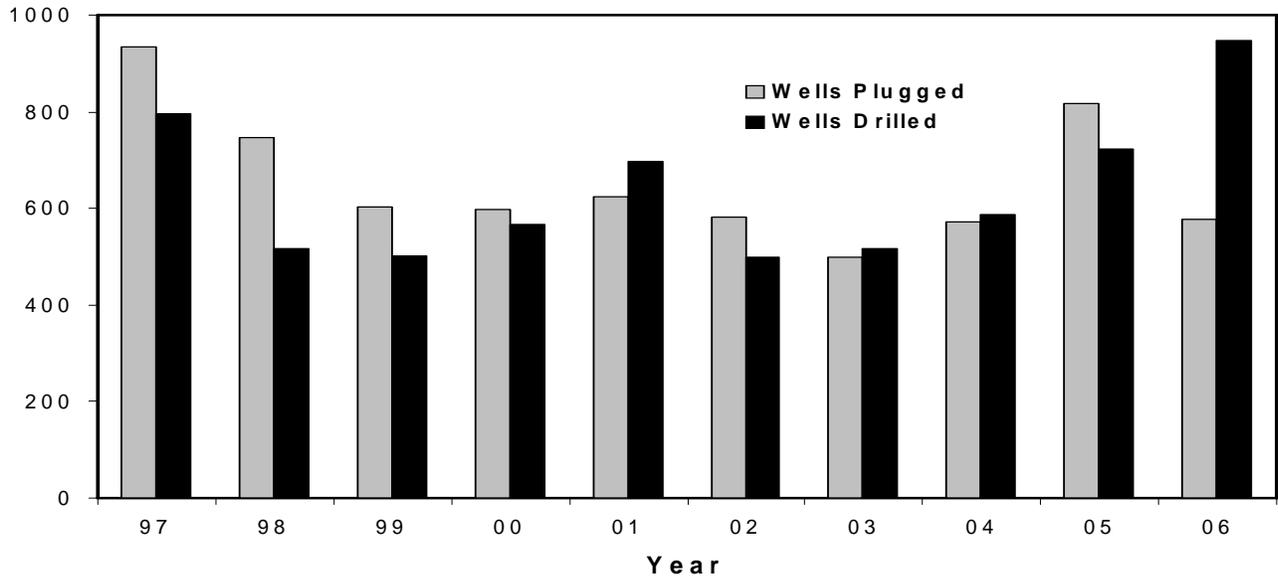


Figure 10 - Wells Plugged by County - 2006



WELLS DRILLED IN OHIO

Year	Productive	Dry	Total	Berea	Ohio Shale	Clinton	Trenton	Rose Run	Cambrian
Prior (a) 1888 (b)	6,022	---	6,022				2,234		
1888 (1)	617	---	617				542		
1889	1,590	132	1,722				702		
1890	2,497	96	2,593				2,151		
1891	1,709	56	1,765				1,572		
1892	1,551	38	1,589				1,465		
1893	2,067	46	2,113				1,877		
1894 (c)	3,216	85	3,301				3,001		
1895	6,020	127	6,147				5,559		
1896 (d)	5,600	856	6,456				4,339		
1897	3,442	300	3,742			987	2,755		
1898	3,338	172	3,510			132	2,852		
1899	6,399	408	6,807			151	4,469		
1900	6,098	457	6,555			116	5,013		
1901	4,559	573	5,132			148	3,524		
1902	5,651	649	6,300			306	4,213		
1903	5,880	777	6,657			352	4,072		
1904	4,974	858	5,832			382	3,141		
1905	3,027	680	3,707			400	1,578		
1906	2,903	681	3,584			388	1,535		
1907	2,146	611	2,757			521	890		
1908	2,083	695	2,778			522	848		
1909	2,881	966	3,847			694	873		
1910	2,059	670	2,729			668	572		
1911	2,270	507	2,777			641	527		
1912	3,527	956	4,483			926	551		
1913	2,560	603	3,163			643	972		
1914	2,371	534	2,905			943	861		
1915	1,672	498	2,170			952	260		
1916	2,028	525	2,553			469	699		
1917	1,864	504	2,368			587	535		
1918	1,708	446	2,154			605	466		
1919	2,486	585	3,071			940	385		
1920	2,421	722	3,143			1,240	565		
1921	1,675	620	2,295			853	461		

WELLS DRILLED IN OHIO

Year	Productive	Dry	Total	Berea	Ohio Shale	Clinton	Trenton	Rose Run	Cambrian
1922	1,989	607	2,596			906	522		
1923	1,779	537	2,316			642	697		
1924	1,704	439	2,143			605	592		
1925	1,680	414	2,094			434	627		
1926	1,722	382	2,104			522	460		
1927	1,286	337	1,623				262		
1928	1,305	395	1,700				204		
1929	1,936	634	2,570				191		
1930	1,562	572	2,134				205		
1931	789	287	1,076				148		
1932	546	224	770				124		
1933	496	183	679				123		
1934	883	276	1,159				103		
1935	544	192	736				94		
1936	754	246	1,000				81		
1937	813	432	1,245						
1938	622	288	910						
1939	713	319	1,032						
1940	818	410	1,228						
1941	1,034	527	1,561						
1942	652	356	1,008						
1943	625	391	1,016						
1944	647	393	1,040						
1945	649	385	1,034						
1946	885	408	1,293						
1947	899	484	1,383						
1948	921	534	1,455						
1949	626	426	1,052						
1950 (2)	666	476	1,142	436	8	418	25		3
1951	626	435	1,061	394	10	406	18		6
1952	670	470	1,140	368	15	459	47		2
1953 (e)	711	386	1,097	359	21	402	30		6
1954	788	407	1,195	441	13	395	25		2
1955	898	336	1,234						

WELLS DRILLED IN OHIO

Year	Productive	Dry	Total	Berea	Ohio Shale	Clinton	Trenton	Rose Run	Cambrian
1956	878	367	1,245	364	13	663	32		5
1957	773	268	1,041	260	12	579	21		2
1958	852	316	1,168	303	13	650	19		5
1959	843	315	1,158	300	11	672	20		13
1960	707	309	1,016	218	5	597	7		20
1961	809	295	1,104	257	10	619	4		42
1962	820	326	1,146	358	2	542	10		72
1963 (f)	748	407	1,155	266	2	443	14	4	302
1964	1,075	1,579	2,654	197	2	499	34	9	1,800
1965 (g)	904	801	1,705	195	2	635	53	16	729
1966	872	399	1,271	227	4	692	18	8	261
1967	953	258	1,211	170	17	853	18	4	132
1968	987	229	1,216	136	66	832	20	6	81
1969	926	183	1,109	104	17	863	13	10	56
1970	1,165	190	1,355	84	15	1,146	5	6	42
1971	1,065	173	1,238	98	11	1,038	5	5	37
1972	1,125	168	1,293	112	21	1,082	3	10	32
1973	1,336	166	1,502	76	31	1,344	5	5	26
1974	1,601	167	1,768	91	13	1,587	3	8	31
1975	1,105	115	1,220	62	6	1,103	5	17	22
1976	1,774	164	1,938	165	30	1,631	38	18	16
1977	2,454	171	2,625	389	34	2,083	33	11	15
1978 (h)	3,132	283	3,415	430	22	2,834	22	27	12
1979	3,480	179	3,659	542	131	2,848	22	29	23
1980	4,935	165	5,100	867	78	3,734	1	24	31
1981	5,685	400	6,085	733	543	4,366		16	50
1982	4,487	342	4,829	754	458	3,426		11	4
1983	4,000	299	4,299	557	533	3,203	1	7	51
1984	4,593	370	4,963	612	329	3,827		9	65
1985	3,536	214	3,750	335	315	3,042		19	94
1986	1,725	125	1,850	185	76	1,482		28	62
1987	1,721	161	1,882	153	40	1,454		70	55
1988	1,265	156	1,421	110	43	1,037		94	62
1989	1,153	159	1,312	69	145	890		92	77
1990	1,147	180	1,327	61	97	863		143	102

WELLS DRILLED IN OHIO									
Year	Productive	Dry	Total	Berea	Ohio Shale	Clinton	Trenton	Rose Run	Cambrian
1991	1,000	169	1,169	89	89	794		116	108
1992	710	165	875	100	51	465		139	87
1993	643	180	823	60	35	330	2	260	89
1994	601	182	783	26	13	301	9	269	75
1995	507	163	670	25	11	253	2	202	94
1996	559	166	725	35	42	253	1	219	90
1997	619	178	797	33	20	277	0	223	110
1998	383	135	518	66	16	154	0	161	61
1999	407	95	502	32	65	177	5	106	55
2000 (i)	455	112	567	18	14	281	3	124	77
2001	598	100	698	35	29	396	1	113	58
2002	428	72	500	7	46	264	0	87	47
2003	452	65	517	30	60	254	2	82	40
2004	534	55	589	32	97	319	1	66	24
2005	658	66	724	48	115	408	7	45	47
2006	909	43	952	83	130	614	7	17	21
TOTAL (j)	218,223	42,366	260,589	12,559	4,047	78,454	71,103	2,935	5,571

References

1. Years 1888-1950: Alkire, Robert L., 1951, Oil and Gas Production, History, Regulation, Secondary Recovery and Bibliography, 8, part 2 of Ohio Division of Geological Survey Report of Investigations: 45-46 pp.
2. Years 1950-2005: Statistics from Annual Oil & Gas Statistical Reports published by Ohio Division's of Mineral Resources Management, Oil and Gas and Geological Survey. Numbers were not available for blank formation fields.

Historical Footnotes

- a. Ohio lays claim to the first discovery of oil from a drilled well. In 1814, saltwater well drillers struck oil in Olive Township of Noble County at 475 feet.
- b. Ohio's first commercial oil and gas well was put into production in 1860 at Macksburg in Washington County.
- c. Alkire notes that the statistics for years 1894-1904 were incomplete and estimated that the total number of wells not accounted for during those years is approximately 12,000.
- d. Ohio was the nation's leading oil producer in 1896.
- e. Widespread acceptance of the hydraulic fracture method for increasing production in 1953.
- f. Morrow County Oil Boom in 1963.
- g. Creation of Ohio Division of Oil and Gas in 1965.
- h. Tight formation tax credit.
- i. Creation of Ohio Division of Mineral Resources Management in 2000.
- j. Total number of wells may actually be 272,589 (See footnote c).

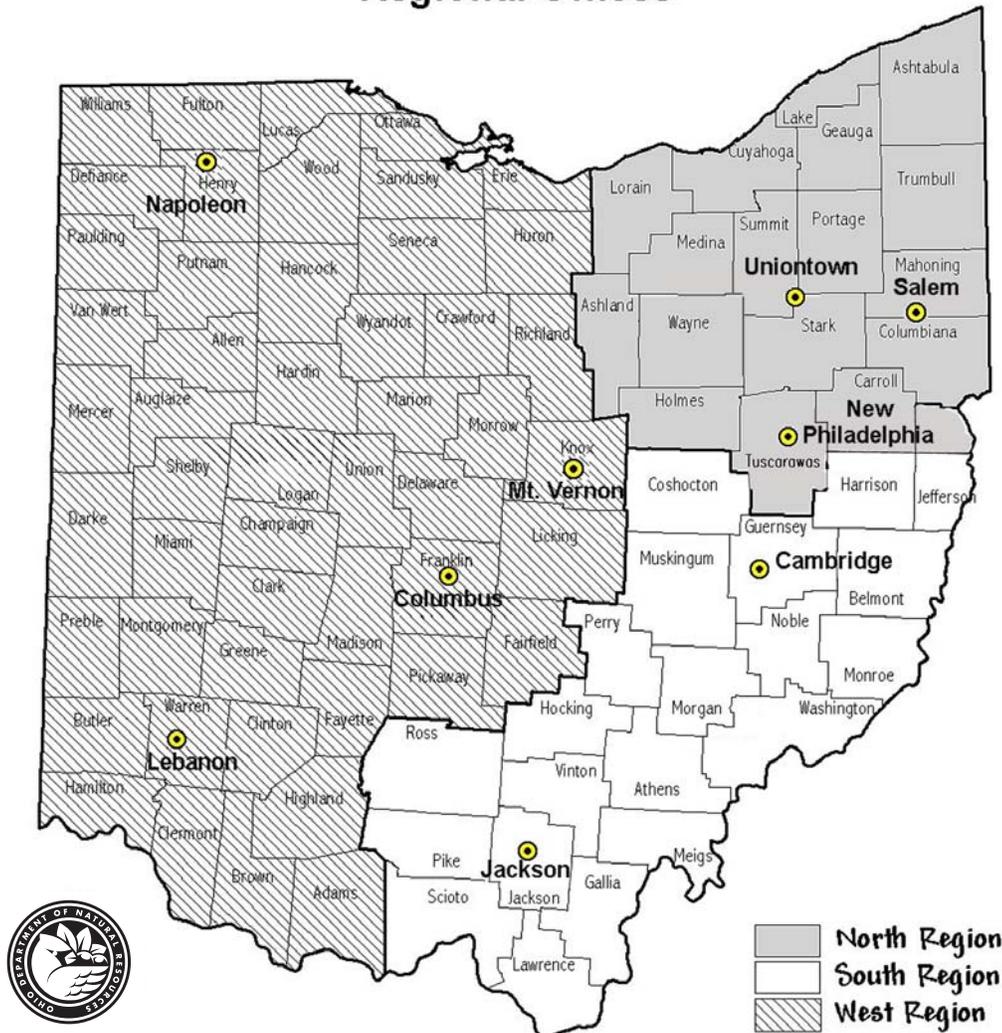
COUNTY DRILLING DEPTH RECORDS

COUNTY	TOWNSHIP	PERMIT NO.	OPERATOR	WELL NO.	LEASE NAME	COMPLETION DATE	TOTAL DEPTH	FORMATION AT T.D.	WELL CLASS
ADAMS	FRANKLIN	11	OXFORD OIL CO.	1	J. RUSSELL & M. TENER	07/07/79	3886	GRANITE WASH	FWC
ALLEN	SPENCER	64	ALCO OIL CO.	2	POHLMAN, FRUEND, ETZ HORN	12/31/65	3266	GRANITE	FWC
ASHLAND	LAKE	1762	ROY STEWART	1	KENNETH & REX MASHER	02/04/60	5485	TREMPEALEAU	DPWC
ASHTABULA	NEW LYME	2272	POI ENERGY	1	LAUTANEN	09/01/85	7124	GRANITE	DPWC
ATHENS	DOVER	3062	QUAKER STATE	2	MILLFIELD COAL & MINING	07/17/84	6525	ROSE RUN	FWC
AUGLAIZE	ST. MARYS	71	WEST OHIO OIL & GAS	1	D. & B. HOELSCHER	12/05/70	3067	GRANITE	DPWC
BELMONT	SMITH	108	NAT. GAS OF W. VA.	8	T. H. MOBLEY	02/07/41	7887	CLINTON	FWC
BROWN	STERLING	6	SPENCER PETROLEUM CORP.	1	GRIFFITH	03/13/93	3350	GRANITE	FWC
BUTLER	LEMON	4	ARMCO STEEL CORP.	1	ARMCO STEEL CORP.	03/12/67	3296	"MIDDLE RUN"	IWDW
CARROLL	EAST	1850	NEWSTAR ENERGY USA INC.	1	BRYAN UNIT	03/30/97	9460	TREMPEALEAU	DPWC
CHAMPAIGN	WAYNE	20	INDUSTRIAL GAS ASSOC.	1	P. & C. HOFFMAN	06/26/78	3325	MT. SIMON	FWC
CLARK	MADISON	D-2	T. D. FRIEND	1	MATTISON	06/14/26	4647	PRE MT. SIMON	FWC
CLERMONT	STONELICK	3	CONTINENTAL OIL CO.	1	C. WIKOFF	07/03/60	3435	MT. SIMON	FWC
CLINTON	WILSON	10	STOCKER & SITLER INC.	1	COY	01/18/83	3603	GRANITE	FWC
COLUMBIANA	HANOVER	648	MANAGEMENT CONTROL	3	F. MURRAY	07/28/70	10242	GRANITE	DPWC
COSHOCTON	CRAWFORD	6397	LAKE REGION OIL INC.	2	LEVI M. TROYER	07/23/92	7950	MT. SIMON	DPWC
CRAWFORD	VERNON	6	HAYNES O&G ENTERPRISES	1	DON D. CRUM	01/09/63	3879	EAU CLAIRE	FWC
CUYAHOGA	MAYFIELD	1625	BASS ENERGY CO. INC.	1	MARCONI MEDICAL SYSTEMS	03/07/01	6550	GRANITE	DPWC
DARKE	GREENVILLE	13-A	UNKNOWN	1	EDWARD BARNES	05/26/06	2850	CAMBRIAN	FWC
DEFIANCE	MARK	28	S. E. BROWN	1	P. HAVER	10/22/62	3606	MT. SIMON	FWC
DELAWARE	TRENTON	354	R.C. POLING CO. INC.	1	COCKRELL-GODSHALL UNIT	01/22/91	4873	GRANITE	DPWC
ERIE	FLORENCE	19	SUN OIL CO.	1	A. HERMAN ETAL.	05/01/67	4466	GRANITE	SWIW
FAIRFIELD	RUSH CREEK	1136	HOPEWELL O. & G. DEV. CO.	1	R. BIGHAM	06/16/94	5924	GRANITE	DPWC
FAYETTE	UNION	1	KEWANEE OIL CO.	1	E. HOPKINS	07/12/57	4708	GRANITE	FWC
FRANKLIN	PLEASANT	7	BARNWELL PRODUCING CO.	1	OAKHURST COUNTRY CLUB	08/08/64	3753	MT. SIMON	FWC
FULTON	CHESTERFIELD	47	LIBERTY PETR. CORP.	1	CLYDE JOHNSTON	03/21/69	3793	MT. SIMON	FWC
GALLIA	HARRISON	985	BAKERWELL INC.	1	JARRELL UNIT	03/24/04	7146	TREMPEALEAU	FWC
GEAUGA	TROY	1534	LOMAK PETROLEUM	1	J. VOYTKO	07/01/88	6888	TREMPEALEAU	DPWC
GREENE	CAESARS CREEK	D-7	SUN OIL CO.	1	WM. M. HENRY	04/15/40	1958	KNOX	FWC
GUERNSEY	ADAMS	782	LAKE SHORE PIPELINE	1	WM. R. MARSHALL	05/31/61	8622	KNOX	FWC
HAMILTON	CROSBY	1	CONTINENTAL OIL CO.	1	WALTER C. BRISBIN	11/01/59	2730	EAU CLAIRE	FWC
HANCOCK	UNION	139	FRANK M. DEVER	1	C. & M. FRAZIER	06/02/64	3017	GRANITE	FWC
HARDIN	DUDLEY	79	MCPAHON-BULLINGTON	1	WOLF	01/07/64	3002	KNOX	FWC
HARRISON	GREEN	355	STOCKER & SITLER INC.	1	CHARLENE SCHANEY ETAL.	07/30/79	10288	TREMPEALEAU	DPWC
HENRY	HARRISON	36	CALLANDER & KIMBREL	1	K. HALL	10/10/73	3480	GRANITE	DPWC
HIGHLAND	FAIRFIELD	7	OHIO VALLEY OIL & GAS	1	COURTNEY	01/20/72	3610	GRANITE	FWC
HOCKING	STARR	1222	E. J. DUNIGAN	1	M. & H. HOCKMAN	06/30/66	6495	MT. SIMON	FWC
HOLMES	SALT CREEK	1283	G.C. & J.A. PARKER	1	DAN D. TROYER	11/12/63	7369	TREMPEALEAU	FWC
HURON	WAKEMAN	103	APPALACHIAN EXPLOR. INC.	1	WOLF	10/05/81	4574	GRANITE WASH	FWC
JACKSON	FRANKLIN	76	WORTHINGTON OIL CO.	1	G. & I. WOOD	07/08/64	6320	GRANITE	FWC
JEFFERSON	STEUBENVILLE	452	KST OIL & GAS CO. INC.	1	HUBERTA MINING CO. INC.	03/23/84	8053	CLINTON	DPWC
KNOX	PIKE	1413	DAVID L. CANTWAY	1	E. CUNNINGHAM	08/07/61	5745	GRANITE	FWC
LAKE	LEROY	1094	GREAT PLAINS EXPL. LTD.	1	VROOMAN	01/24/04	6355	GRANITE	DPWC

COUNTY	TOWNSHIP	PERMIT NO.	OPERATOR	WELL NO.	LEASE NAME	COMPLETION DATE	TOTAL DEPTH	FORMATION AT T.D.	WELL CLASS
LAWRENCE	SYMMES	174	J. STANLEY GOLDBERG	1	A. PAYNE	04/01/66	7002	GRANITE	FWC
LICKING	PERRY	4792	RONALD F. MORAN	1	RON MORAN	03/08/84	6237	GRANITE	SWIW
LOGAN	JEFFERSON	86	WORTHINGTON OIL CO.	1	LENA COMER	05/11/76	3402	MT. SIMON	FWC
LORAIN	GRAFTON	1370	KENOIL/KEN R. MILLER	1	LAWRENCE PALL	08/24/91	5018	TREMPEALEAU	DPWC
LUCAS	HARDING	60	LIBERTY PETR. CORP.	1	KETRING UNIT	08/24/72	3915	GRANITE	FWC
MADISON	FAIRFIELD	3	AMERADA PETR. CORP.	1	J. HUME	11/01/65	3631	GRANITE	FWC
MAHONING	GOSHEN	2718	BELDEN & BLAKE CO.	4-11979	R. & R. BRICKER	07/07/97	8600	TREMPEALEAU	DPWC
MARION	CLARIDON	8	UNITED PRODUCING	1	H. & M. MITCHELL	03/14/62	3672	GRANITE	FWC
MEDINA	HINCKLEY	1143	WISER OIL CO.	1-A	F. L. SMITH	01/03/59	7040	GRANITE	FWC
MEIGS	OLIVE	442	SINCLAIR-PRAIRIE OIL CO.	1	W. T. LONGWORTH	05/04/44	7466	TRENTON	FWC
MERCER	CENTER	141	HARNER UNION OIL CO.	2	M. & M. YEWES	02/09/71	3215	GRANITE	DPWC
MIAMI	LOST CREEK	3	NATIONAL ASSOC. PETR.	1	E. WALKER	10/30/58	3513	GRANITE	FWC
MONROE	MALAGA	3287	TRANS ATLANTIC ENERGY	2	HUDSON	01/22/89	7507	CLINTON	DPWC
MONTGOMERY	MAD RIVER	D-2	DAYTON	M	DAYTON	01/1887	2440	UNKNOWN	UNKN.
MORGAN	CENTER	4533	ARTEX OIL COMPANY	1	BICKFORD UNIT	08/20/05	8222	ROSE RUN	DPWC
MORROW	PERRY	3737	STAR EXPL. CORP.	1	R. & W. BREWER	12/19/86	5000	GRANITE	DPWC
MUSKINGUM	HIGHLAND	7959	CGAS EXPLORATION INC.	7-2108	G. VICKERS	07/07/97	7316	TREMPEALEAU	DPWC
NOBLE	ELK	1278	AMERADA PETR. CORP.	1	R. ULLMAN	02/01/67	11442	GRANITE	DPWC
OTTAWA	CARROLL	50	FRED E. FITZGERALD	1	RAYMOND ARNDT	08/07/68	2287	ST. PETER	FWC
PAULDING	JACKSON	13	MT. PLEASANT MINES LTD.	1	H. & E. AREND	10/30/76	3440	GRANITE	FWC
PERRY	JACKSON	6595	R.C. POLING CO. INC.	1	RUSH CREEK PARTNERS, ETAL.	04/20/85	6395	GRANITE	SWIW
PICKAWAY	PICKAWAY	24	RAMCO OIL & GAS CORP.	1	M. KERNS	01/17/85	4500	GRANITE	FWC
PIKE	BEAVER	1	FRANK D. STAHLER	1	R. BAPST	06/14/50	4227	ST. PETER?	FWC
PORTAGE	DEERFIELD	2860	VIKING RESOURCES CORP.	1	VIKING RESOURCES CORP.	05/24/82	8800	GRANITE WASH	DPWC
PREBLE	WASHINGTON	D-3	DOC TOLLIVER	3	A. H. CHRISTMAN	06/01/29	1750	ST. PETER	FWC
PUTNAM	LIBERTY	31	OHIO OIL CO.	1	L. BARLAGE	03/21/44	3377	GRANITE	FWC
RICHLAND	WASHINGTON	431	TRI-STATE PRODUCING CO.	2	C. & K. SCOTT	09/05/66	5503	GRANITE	DPWC
ROSS	GREEN	8	WELL SUPERVISION INC.	1	M. IMMELL	08/24/64	4168	MT. SIMON	FWC
SANDUSKY	TOWNSEND	77	EAST OHIO GAS CO.	2	V. & I. HAFF	11/17/60	3128	GRANITE	FWC
SCIOTO	GREEN	212	USS CHEMICALS/US STEEL	1	USS CHEMICALS/US STEEL	07/05/68	5617	GRANITE	IWDW
SENECA	ADAMS	128	ASHLAND OIL	1	W. STIGAMIRE	01/24/65	3175	MT. SIMON	FWC
SHELBY	SALEM	13	GUMP OIL CO.	1	J. & B. FOGY	11/10/56	3360	GRANITE	FWC
STARK	PARIS	5052	VIKING RESOURCES CORP.	1	HANNA UNIT	09/02/97	8292	ROSE RUN	POOL
SUMMIT	TWINSBURG	1591	K.S.T. OIL & GAS CO.	5	K.S.T. OIL & GAS CO.	07/18/84	7225	GRANITE WASH	SWIW
TRUMBULL	WEATHERSFIELD	3670	D & L ENERGY, INC.	1	NMC METALS	03/14/98	7722	TREMPEALEAU	DPWC
TUSCARAWAS	PERRY	5022	STOCKER & SITLER INC.	3-2417	BARDALL	01/14/98	8646	TREMPEALEAU	DPWC
UNION	DOVER	69	FUNK EXPLORATION	1	YODER	08/15/84	3500	GRANITE	FWC
VAN WERT	JENNINGS	44	WEST OHIO GAS CO.	5	A. & M. MILLER	01/05/73	3242	GRANITE	DPWC
VINTON	VINTON	924	COLUMBIA NAT. RES. INC.	723984	MORRIS	03/25/00	5700	TREMPEALEAU	FWC
WARREN	WAYNE	C-2627	OHIO GEOLOGICAL SURVEY	DS-2	AMERICAN AGGREGATES CORP.	04/26/89	5380	"MIDDLE RUN"	CORE
WASHINGTON	LAWRENCE	8666	CARTER RESOURCES	1	STRAUSS UNIT	12/06/89	10200	ROSE RUN	DPWC
WAYNE	CHIPPEWA	71	EAST OHIO GAS CO.	2	N. STEINER	08/12/61	6919	GRANITE	DPWC
WILLIAMS	BRIDGEWATER	46	COLUMBIA GAS TRANS.	11061	COOK	12/31/71	4497	GRANITE WASH	FWC
WOOD	LIBERTY	D-6	J. S. BRAILEY	1	S. KILLIAN	08/25/37	2927	GRANITE	DPWC
WYANDOT	JACKSON	D-8	DIBBLE & MILLER	1	P. PARSELL	03/07/47	5632	GRANITE	FWC

Division of Mineral Resources Management

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