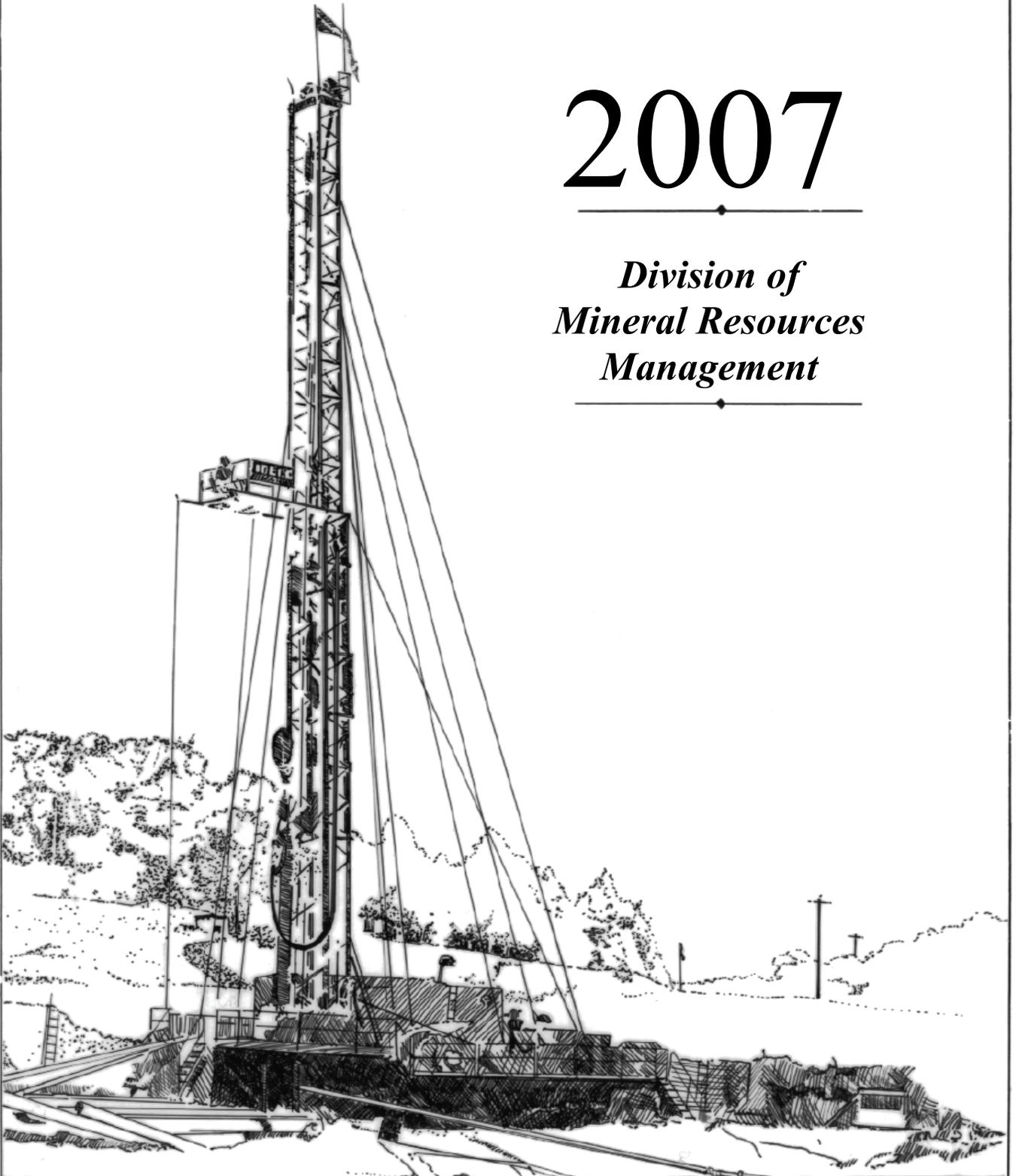


SUMMARY OF OHIO OIL AND GAS ACTIVITIES

2007

*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-third 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 February 29, 2008. You may also note that some 2006 statistics have been adjusted to include well completion reports received after last year's cut-off date. The 2006 report estimated 952 wells were drilled; the total number has been revised to 957. There are no major revisions in this year's report.

Highlights include:

- 5,680 registered well owners, including 4,224 domestic owners, operating 63,654 wells.
- Issued 2,429 permits, including 1,322 drilling permits.
- Issued 311 urbanized area permits in 15 counties.
- Drilled an estimated 1,068 oil and gas wells in 49 of Ohio's 88 counties.
- Monroe County was the most active county with 81 wells drilled.
- Produced 5,454,629 barrels of crude oil, at an average price of \$67.69 per barrel.
- Produced more than 88 billion cubic feet of natural gas, at an average price of \$7.40 per mcf.
- The combined market value of crude oil and natural gas production was \$1,021,124,854.
- 598 wells were plugged including 49 contracted by the Orphan Well Program.

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

- Distributed 143 copies of RBDMS, our oil and gas well database;
- Updated our oil and gas well website to be connected directly to the oil and gas well database.

We are currently working on:

- Updating the Emergency Oil and Gas Well Locator website;
- Rules implementing Spill Prevention, Control and Counter measures (SPCC).

The permitting program hired two new geologists in 2007: Kelly Barrett and George Mychkovsky.

Mike McCormac
Manager, DMRM Oil and Gas Permitting Program

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Permitting

The Division issued 2,429 permits, an increase of 138 (6%) from 2006 (Figure 1). This total includes permits issued to convert, deepen, drill, plug back, plug and abandon, reissue and reopen. Permits were issued in 15 days on average, compared to 14 days in 2006.

Permits issued to drill for oil and gas totaled 1,322, a 6.7% increase (83 permits) from last year. These permits included 1,174 new permits and 148 reissued permits. Clinton sandstone permits increased by 27 for a total of 823 and accounted for 62% of all drill permits. Devonian shale permits increased by 18 for a total of 170 and accounted for 13% of all drill permits. Deep well permits increased by 5 for a total of 133 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 3 for a total of 107.

Nine hundred and fifty-nine plugging permits were issued, an increase of 77 (8.7%) from 2006, which includes 24 permits for the Orphan Well Program.

Notable permitting highlights for 2007 include:

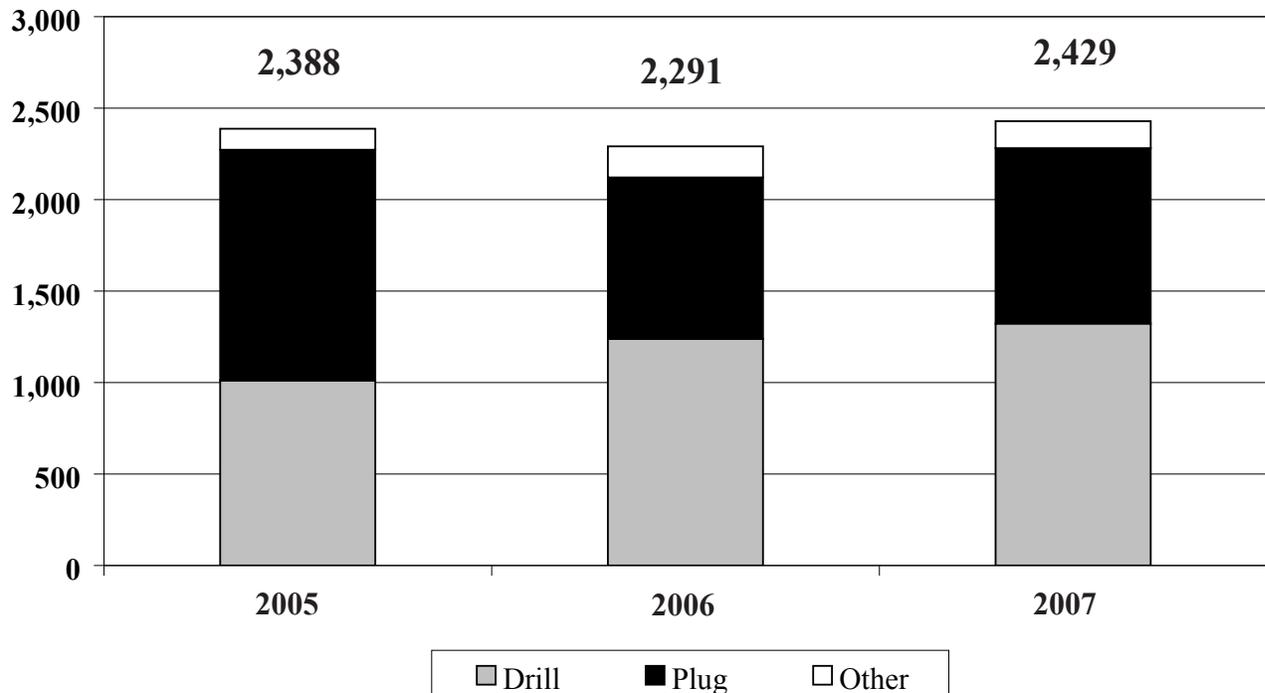
- Issued 311 urbanized area permits (an increase of 22) in 15 counties. The top five counties were Cuyahoga (80), Summit (48), Stark (35), Lake (32) and Geauga (29);
- Reviewed 38 mandatory pooling applications;
- Processed 49,217 production reports for 2006.

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 and gas wells under the operator's permits in Ohio. During 2007, 340 bonds were released and 165 new owners were registered.

Section staff also manages all information and records concerning current well ownership and well transfers. During 2007, records were managed for 5,680 registered well owners including 4,224 domestic owners and 1,456 commercial owners. Staff also recorded 7,375 changes in well ownership. There are 63,654 active wells in Ohio.

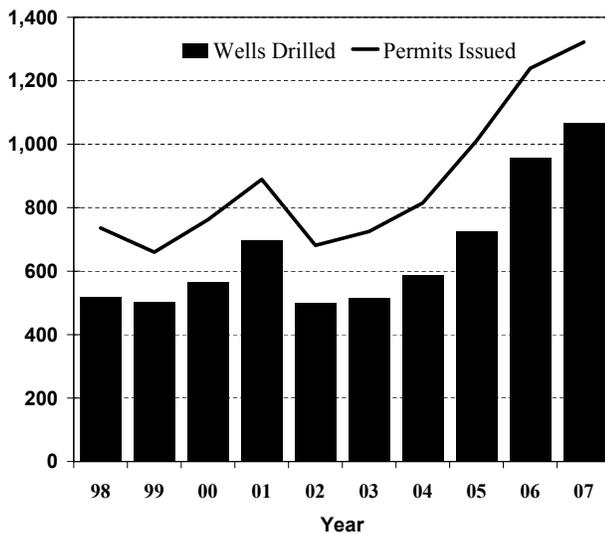
**Figure 1 - Oil & Gas Permits Issued
2005 - 2007**



Drilling

Record market prices and active urbanized drilling led to an increase in the number of wells drilled. In 2007, an estimated 1,068 oil and gas wells were drilled, which was an increase of 111 wells (12%) from 2006 (Figure 2). It was the first time since 1991 that more than a thousand wells were drilled (Appendix I). Wells were drilled in 49 of Ohio's 88 counties, an increase of 7 (Figure 3).

Figure 2 - Drill Permits vs. Wells Drilled 1998 - 2007



Completions

Of the well completion reports submitted by February 29, 2008 to the division, 827 were productive and 44 were dry holes, for a 95% completion rate. See Table I.

- Total footage is estimated at 4,237,783 feet compared to 3,708,596 for 2006.
- Average well depth was 3,968 feet, an increase of 93 feet per well.
- The median well depth was 3,988 feet.
- Total depths ranged from 510 feet in the Coal (Harrison County) to 7,838 feet in the Beekmantown dolomite (Guernsey 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. Knox County had wells drilled to six different geologic zones. The Ohio Shale and Clinton sandstone accounted for 80% 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 63% percent of all wells drilled. An estimated 668 wells were drilled, 46 more than the 622 wells drilled in 2006. Clinton sandstone wells averaged 4,284 feet in depth, a decrease of 57 feet per well. Clinton sandstone wells were drilled in 27 counties, the same as last year. The most active counties were: Geauga (65), Cuyahoga (61), Trumbull (56), Stark (52) and Licking (45).

An estimated 157 wells were drilled to the Ohio Shale, an increase of 27 wells. Drilling occurred in 10 counties. Monroe County led with 80 wells followed by Noble (25) and Washington (22). The average depth per well was 2,806 feet, an increase of 148 feet per well.

An estimated 90 Berea Sandstone wells were drilled, 5 more than last year. Drilling occurred in 14 counties. Morgan led with 31 wells followed by Perry (13) and Muskingum (10).

Drilling to the Knox formation increased. There were 104 wells drilled, 27 more than in 2006. The most active formation was the Beekmantown dolomite with an estimated 38 wells drilled, a decrease of 1 well. Drilling occurred in 4 counties with Tuscarawas (26), Guernsey (7) and Muskingum (4) the most active. The average depth per well was 7,465 feet, an increase of 381 feet per well.

Wells Completed by Month and Owner

Drilling was active every month. Drilling activity averaged 89 wells per month compared to 79 per month in 2006. October was the most active month with 112 wells (Figure 4).

One hundred and sixty-two owners drilled wells in 2007. Eighty-six percent of these owners drilled 10 wells or less. The highest number of wells drilled by a single owner was 89 (Figure 5) and twenty-three operators drilled 59% (631) of all wells.

Wells Completed by Type of Tool

Rotary tools drilled the majority of wells. Cable-tool rigs drilled 30 wells and operated in 8 counties. Licking (9) and Knox (8) Counties had the highest number of cable tool operations. Cable tool depths ranged from 586 feet (Ashland County) to 3,907 feet (Coshocton County). The average depth

Figure 3 - Wells Drilled and Completions Received by County - 2007



per well drilled by cable tool was 1,939 feet, an increase of 78 feet; rotary-drilled wells averaged 4,040 feet, a decrease of 14 feet per well.

Plug-back and Deepen Operations

Eighteen wells were dry in their permitted formation but plugged back to produce a shallower zone. Another forty-three existing wells were plugged back to producing zones, and 3 existing wells were drilled to a deeper producing formation.

TABLE I – DRILLING OPERATIONS BY TYPE OF WELL – 2007

	Drilled	Converted	Total Footage
Productive Wells	827		3,235,577
Dry Holes	44		220,510
Reopened Wells	14		0
Lost Holes	18		22,297
Gas Storage Wells	0	0	0
Conventional Brine Injection Wells	0	1	0
Stratigraphic Test Wells	3		22,127
Solution Mining Wells	2	0	5,000
TOTAL	908	1	3,505,511

Ten Most Active Counties

Monroe County, ranked first in 2006, repeated as the most active county with 81 wells drilled, an increase of 3 wells (Table IV). Geauga County, with an increase of 21 wells, was the second most active county. Drilling in urbanized areas had an impact on the top-ten, most noticeably in Cuyahoga, Geauga and Stark Counties.

Five of these counties were in the top-ten last year. Knox County is in the top-ten for the first time since 1977. Several other counties had significant increases in drilling. The biggest increases occurred in Licking and Trumbull (27 each). The biggest decreases took place in Muskingum (25), Perry (16) and Lake (15) Counties.

Directional Drilling

Fifty-two directional drilling permits, an increase of 15, were issued to drill wells in 13 counties. The most active counties were Summit (13), Cuyahoga (11) and Mahoning (8). The majority of directional drilling permits (43) targeted the Clinton. Five horizontal permits targeted the Ohio Shale.

Exploratory Wells

Approximately 6% of all wells completed were classified as exploratory (Figure 6). Thirty-nine wells were productive and 14 were dry holes, representing a 74% success rate. Wells were drilled in 21 counties. The following counties were the most active: Tuscarawas (9), Washington (7), Cuyahoga and Knox (4 each).

The majority of exploratory wells were classified as either 'outposts' (27) or 'deeper pool wildcats' (18). Productive rates were as follows: 'outposts' 81% and 'deeper pool wildcats' 61%.

Wells drilled below the Knox unconformity accounted for 58% (31) of all exploratory drilling; 19 of these wells (61%) were productive. The Ordovician Beekmantown dolomite had 11 exploratory wells drilled to it, of which 9 were productive. The Cambro-Ordovician Rose Run sandstone accounted for 10 of these wells; 7 were productive. The Cambrian Trempealeau dolomite had 8 exploratory tests, of which 3 were productive. Two wells were drilled to Precambrian Granite.

TABLE II - OIL AND GAS COMPLETION STATISTICS BY COUNTY – 2007

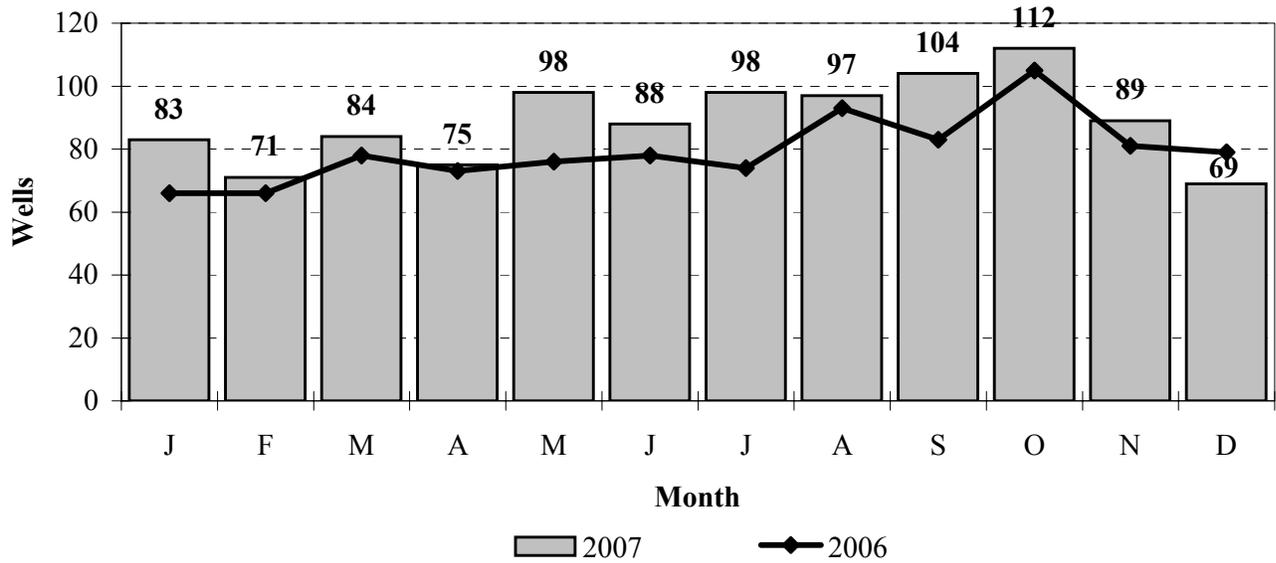
County	Depth Range of Reservoirs		Major Targeted Reservoirs	Development		Exploratory		Total Wells	Percent Productive	Drilled Footage		
	Shallow	Deep		Productive	Dry	Productive	Dry			Productive	Dry	Total
Ashland	528	4666	Berea	5	2	0	1	8	62.50	3,592	6,106	9,698
Ashtabula	2716	5958	Clinton	27	0	1	0	28	100.00	95,890	0	95,890
Athens	1550	4035	Oriskany	15	0	0	0	15	100.00	40,659	0	40,659
Auglaize	1157	1182	Trenton	0	1	0	0	1	0.00	0	1,182	1,182
Belmont	1980	5784	Ohio Shale	1	0	1	0	2	100.00	8,555	0	8,555
Carroll	4976	5918	Clinton	26	0	1	0	27	100.00	148,608	0	148,608
Columbiana	5300	6231	Clinton	5	0	0	0	5	100.00	29,885	0	29,885
Coshocton	3100	5436	Clinton	27	3	0	0	30	90.00	115,457	19,212	134,669
Cuyahoga	2784	3954	Clinton	35	2	3	1	41	92.68	135,984	10,476	146,460
Geauga	3589	4262	Clinton	42	0	0	0	42	100.00	168,839	0	168,839
Guernsey	4622	7818	Clinton	25	0	2	1	28	96.43	159,507	10,374	169,881
Hancock	532	1088	Trenton	0	1	0	0	1	0.00	0	1,130	1,130
Harrison	480	6056	Coal	23	0	1	0	24	100.00	85,345	0	85,345
Hocking	900	3192	Clinton	4	0	0	0	4	100.00	9,832	0	9,832
Holmes	3202	6828	Clinton	43	2	2	1	48	93.75	192,704	19,814	212,518
Huron	3178	3865	Trempealeau	4	2	1	0	7	71.43	17,734	7,725	25,459
Jackson	720	1125	Ohio Shale	1	0	0	0	1	100.00	1,205	0	1,205
Knox	2151	4684	Clinton	23	1	2	2	28	89.29	79,223	9,604	88,827
Lake	2821	5556	Clinton	20	0	1	1	22	95.45	72,327	5,702	78,029
Lawrence	999	2149	Ohio Shale	1	0	1	0	2	100.00	3,185	0	3,185
Licking	558	3842	Clinton	44	1	1	0	46	97.83	111,873	692	112,565
Mahoning	4662	5660	Clinton	34	0	0	0	34	100.00	182,851	0	182,851
Medina	2549	5236	Clinton	4	0	1	1	6	83.33	17,714	5,266	22,980
Meigs	1064	3460	Ohio Shale	9	1	0	0	10	90.00	21,496	1,885	23,381
Monroe	1140	2948	Ohio Shale	76	0	2	0	78	100.00	203,884	0	203,884
Morgan	1150	5157	Berea	20	0	0	0	20	100.00	35,240	0	35,240
Morrow	3904	4058	Mt Simon	0	0	0	1	1	0.00	0	4,058	4,058
Muskingum	1055	6434	Clinton	15	2	3	0	20	90.00	77,904	12,635	90,539
Noble	1400	5460	Ohio Shale	21	0	1	0	22	100.00	82,911	0	82,911
Perry	1090	3194	Berea	21	0	0	0	21	100.00	41,461	0	41,461
Pickaway	2246	3022	Rose Run	2	0	2	1	5	80.00	10,037	2,375	12,412
Pike	484	1062	Ohio Shale	3	0	0	0	3	100.00	3,035	0	3,035
Portage	3738	4929	Clinton	22	0	0	0	22	100.00	96,641	0	96,641
Seneca	1388	1480	Trenton	1	0	0	0	1	100.00	1,471	0	1,471
Stark	3842	7272	Clinton	53	1	0	0	54	98.15	265,302	6596	271,898
Summit	3509	4296	Clinton	17	1	0	0	18	94.44	68,873	4,142	73,015
Trumbull	3842	5416	Clinton	48	0	0	0	48	100.00	237,148	0	237,148
Tuscarawas	4346	7648	Clinton	37	6	6	3	52	82.69	266,229	67,596	333,825
Vinton	1266	1276	Berea	1	0	0	0	1	100.00	1,425	0	1,425
Washington	1734	4180	Ohio Shale	19	0	7	0	26	100.00	86,176	0	86,176
Wayne	3094	6464	Clinton	14	3	0	1	18	77.78	55,375	21,897	77,272
Wyandot	1924	2043	Trempealeau	0	1	0	0	1	0.00	0	2,043	2,043
TOTAL				788	30	39	14	871	94.95	3,235,577	220,510	3,456,087

Note: No completion information was available at the time of this printing for the following counties: Erie, Fairfield, Gallia, Hardin, Henry, Richland and Sandusky.

TABLE III - OIL AND GAS COMPLETION STATISTICS BY PRODUCING ZONE – 2007

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)	480	657	10	0	1			0	11	100.00
Mississippian (Maxville - Keener)	1130	1160	1	0	2	0	3	100.00	4,739	0	4,739
Mississippian (1st & 2nd Berea)	528	2128	53	4	1	0	58	93.10	68,667	2,873	71,540
Devonian (Ohio Shale)	484	5784	128	1	8	0	137	99.27	382,568	1,885	384,453
Devonian (Oriskany)	1980	5309	6	0	2	0	8	100.00	32,443	0	32,443
Silurian (Newburg)	1765	2342	1	0	0	0	1	100.00	2,342	0	2,342
Silurian (Clinton - Medina)	2151	7354	549	3	6	1	559	99.28	2,380,191	14,618	2,394,809
Ordovician (Trenton)	1088	3656	1	2	0	1	4	25.00	1,471	5,968	7,439
Ordovician (Beekmantown)	2246	7803	21	6	9	2	38	78.95	221,410	62,278	283,688
Cambro-Ordovician (Rose Run)	2298	7816	7	8	7	3	25	56.00	74,940	73,949	148,889
Cambrian (Trempealeau)	1924	5735	11	6	3	5	25	56.00	59,253	49,674	108,927
Precambrian	3904	5183	0	0	0	2	2	0.00	0	9,265	9,265
TOTAL			788	30	39	17	871	94.95	3,235,577	220,510	3,456,087

**Figure 4 - Wells Completed by Month
2006 - 2007**



**Figure 5 - Wells Completed by Owner
2007**

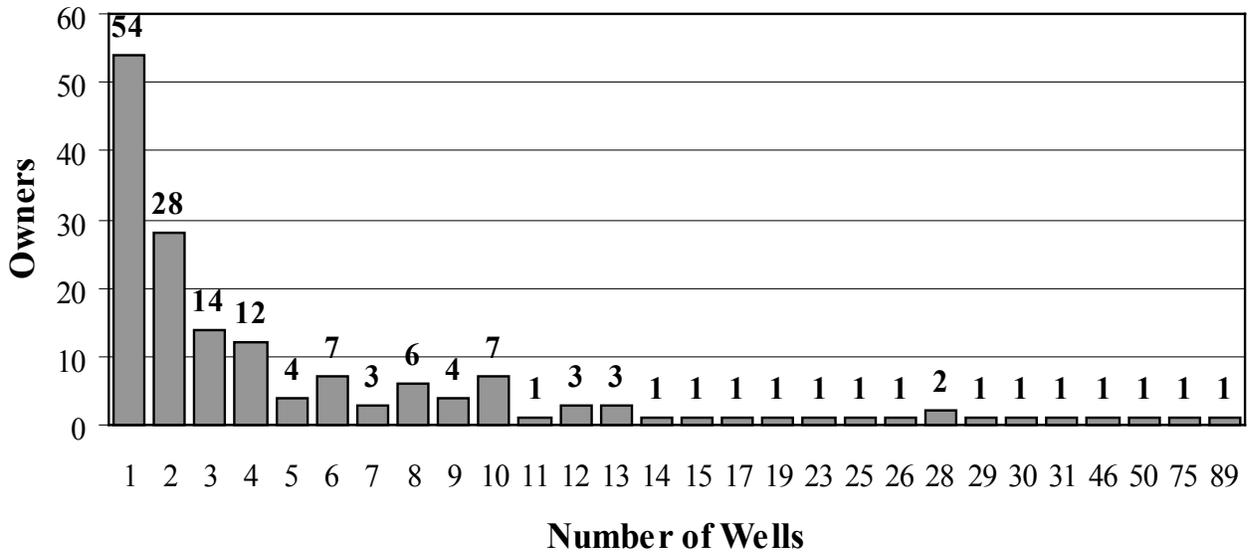
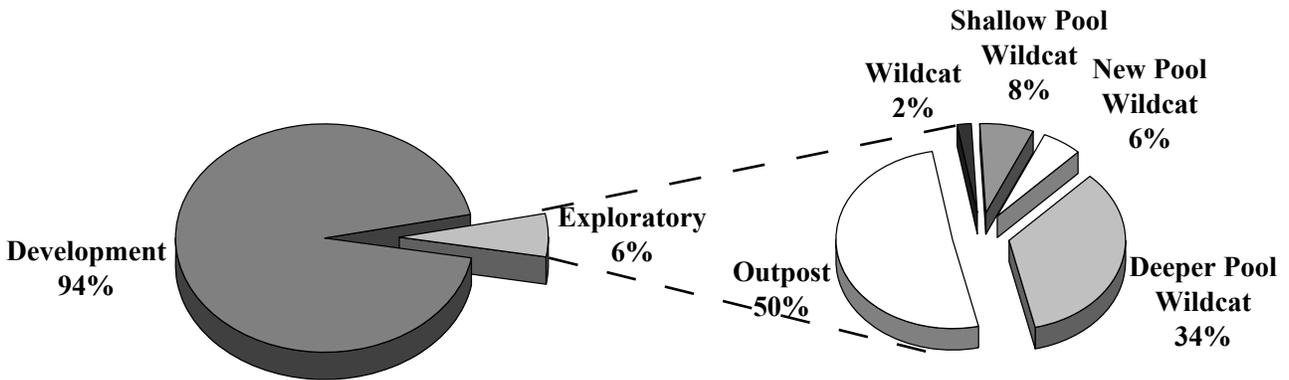


TABLE IV - TEN MOST ACTIVE COUNTIES - 2007					
2007 Rank	County	Wells Drilled	2006 Rank	Avg. Depth Per Well	Footage Drilled
1	Monroe	81	(1)	2,614	203,884
2	Geauga	65	(7)	4,020	168,839
3	Cuyahoga	61	(3)	3,572	146,460
4	Trumbull	56	(16)	4,941	237,148
4	Tuscarawas	56	(4)	6,420	333,825
6	Stark	55	(2)	5,035	271,898
7	Licking	54	(17)	2,447	112,565
8	Holmes	50	(14)	4,427	212,518
9	Knox	41	(12)	3,172	88,827
10	Mahoning	36	(18)	5,378	182,851

Figure 6 - Development vs. Exploratory Wells - 2007



County Drilling Depth Records

There were two new drilling depth records (Appendix II). Both wells were stratigraphic tests.

In Belmont County, a well was drilled 8,384 feet into the Queenston Shale, 497 feet deeper than the former record holding well drill in 1941. In Tuscarawas County, a well was drilled 8,695 feet into the Precambrian Granite, 49 feet deeper than the former record holding well drilled in 1998.

Production

Ohio's total reported crude oil production was 5,454,629 barrels (Figure 7, Table V), an increase of 32,435 barrels (0.6%) from 2006. In 2007, daily pro-

duction averaged 14,944 barrels compared to 14,855 barrels in 2006. Through 2007, Ohio wells have produced 1,121,180,208 barrels.

Ohio wells produced 88,094,732 mcf of natural gas, an increase of 1,779,632 mcf (2.06%) from 2006 (Figure 7, Table V). Gas production figures include an estimated 872,225 mcf of natural gas used on the lease. In 2007, daily production averaged 241,355 mcf compared to 236,480 mcf in 2006. Through 2007, Ohio wells have cumulatively produced 8,268,294,290 mcf of natural gas.

The 2007 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
1998 - 2007**

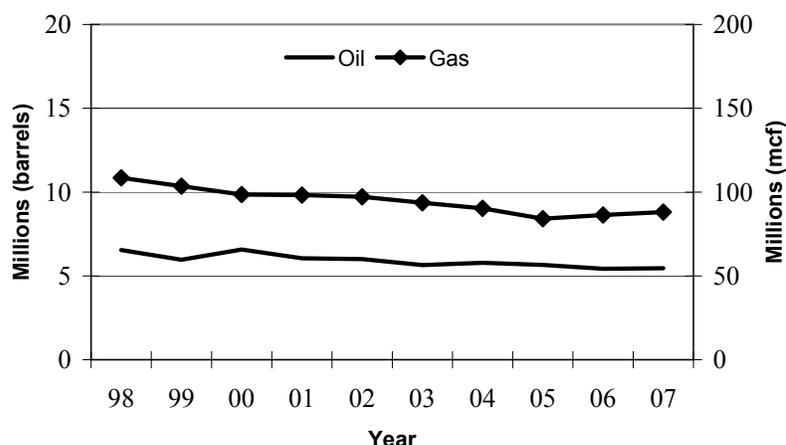


TABLE V – CRUDE OIL & NATURAL GAS PRODUCTION, RESERVES & CONSUMPTION – 1998 - 2007

Year	OIL (thousands of barrels)		GAS (mmcf)		
	Production	Reserves	Production	Reserves	Consumption
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	825,961
2006	5,422	49,000	86,315	975,000	742,440
2007	5,455	N/A	88,095	N/A	N/A

Market Value

Crude oil production valued at \$369,223,837, increased 9.07% (\$30,716,266) from its 2006 value. The average price per barrel was \$67.69, a 8.43% increase from 2006's average price of \$62.43 per barrel (Table VI). Posted oil prices ranged from a low of \$46.50 (Jan. 19th) to a high of \$92.50 (Nov. 24th-26th) per barrel.

Year	Oil \$/Bbl	Gas \$/Mcf
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
2007	\$67.69	\$7.40

The market value of natural gas decreased 2.55% (\$17,041,008) to \$651,901,017. The average price paid per mcf was \$7.40 in 2007, a decrease of \$0.35 per mcf from 2006 (Table VI). The Appalachian price index, based on a weighted average between Columbia and Dominion, ranged from a low of \$5.78 in September to a high of \$8.41 in June.

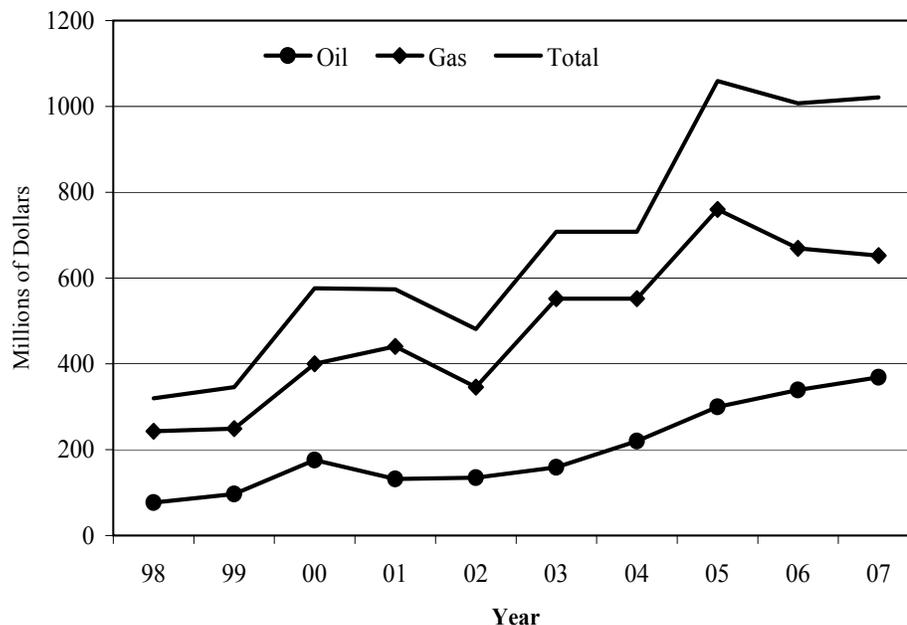
Ohio's combined oil and gas market value increased by 1.36% (13,675,258). The total dollar value (\$1,021,124,854) exceeded the 1 billion dollar mark for the third straight year and only the fourth time ever, with 1984 being the first time (Figure 8).

Plugging Activity

This year well plugging activity stayed about the same as 2006. Figure 9 compares plugging and drilling activity. In 2007, 598 wells were plugged compared to 577 in 2006. This total does not include dry or lost holes that were plugged in 2007. Fifty-five of these wells were plugged through the Orphan Well Program including 49 funded through the Landowner Grants Program. Additionally, 6 previously plugged wells were reopened for the purpose of replugging them.

Wells were plugged in 45 counties (Figure 10). Muskingum County (72) repeated as the most active plugging county followed by Coshocton and Washington (38 each), Morgan and Wayne (32 each).

**Figure 8 - Dollar Value of Oil & Gas
1997 - 2007**



**Figure 9 - Wells Plugged vs. Wells Drilled
1998 - 2007**

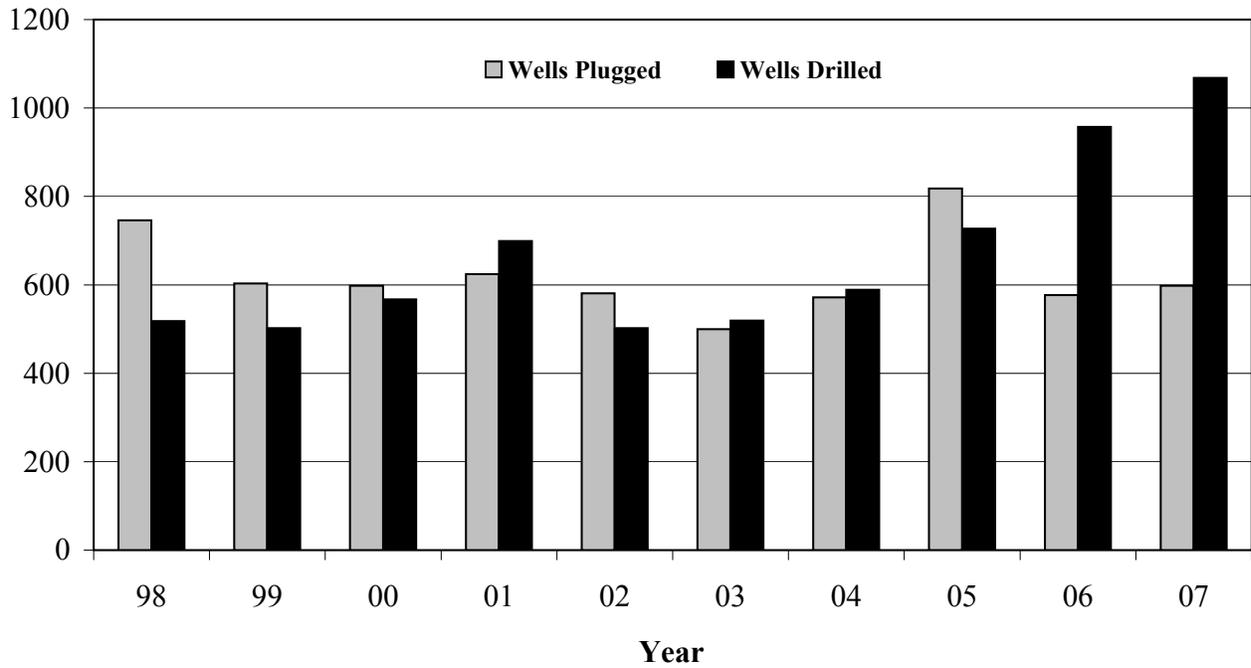


Figure 10 - Wells Plugged by County - 2007



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	988	229	1,217	136	66	832	21	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	1,337	166	1,503	76	31	1,345	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	2,455	171	2,626	390	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	4,488	342	4,830	756	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	3,546	214	3,760	345	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	1,267	156	1,423	112	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	599	100	699	36	29	396	1	113	58
2002	430	72	502	8	46	265	0	87	47
2003	454	65	519	30	60	256	2	82	40
2004	534	55	589	32	97	319	1	66	24
2005	658	69	727	48	115	408	7	45	50
2006	913	44	957	85	130	622	7	18	23
2007	1024	44	1068	90	157	668	7	34	32
TOTAL (j)	219,272	42,414	261,686	12,667	4,204	79,134	71,111	2,970	5,608

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 1950-2007: 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 273,686 (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	MEAD	586	FIRST ENERGY GEN. CORP.	1	MRCSP-FEGENCO	02/05/07	8384	QUEENSTON	ST
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. YEWY	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	SALEM	5334	OHIO GEOLOGICAL SURVEY	1	OHIO GEOLOGICAL SURVEY CO2	06/09/07	8695	GRANITE	ST
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 Region Offices



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