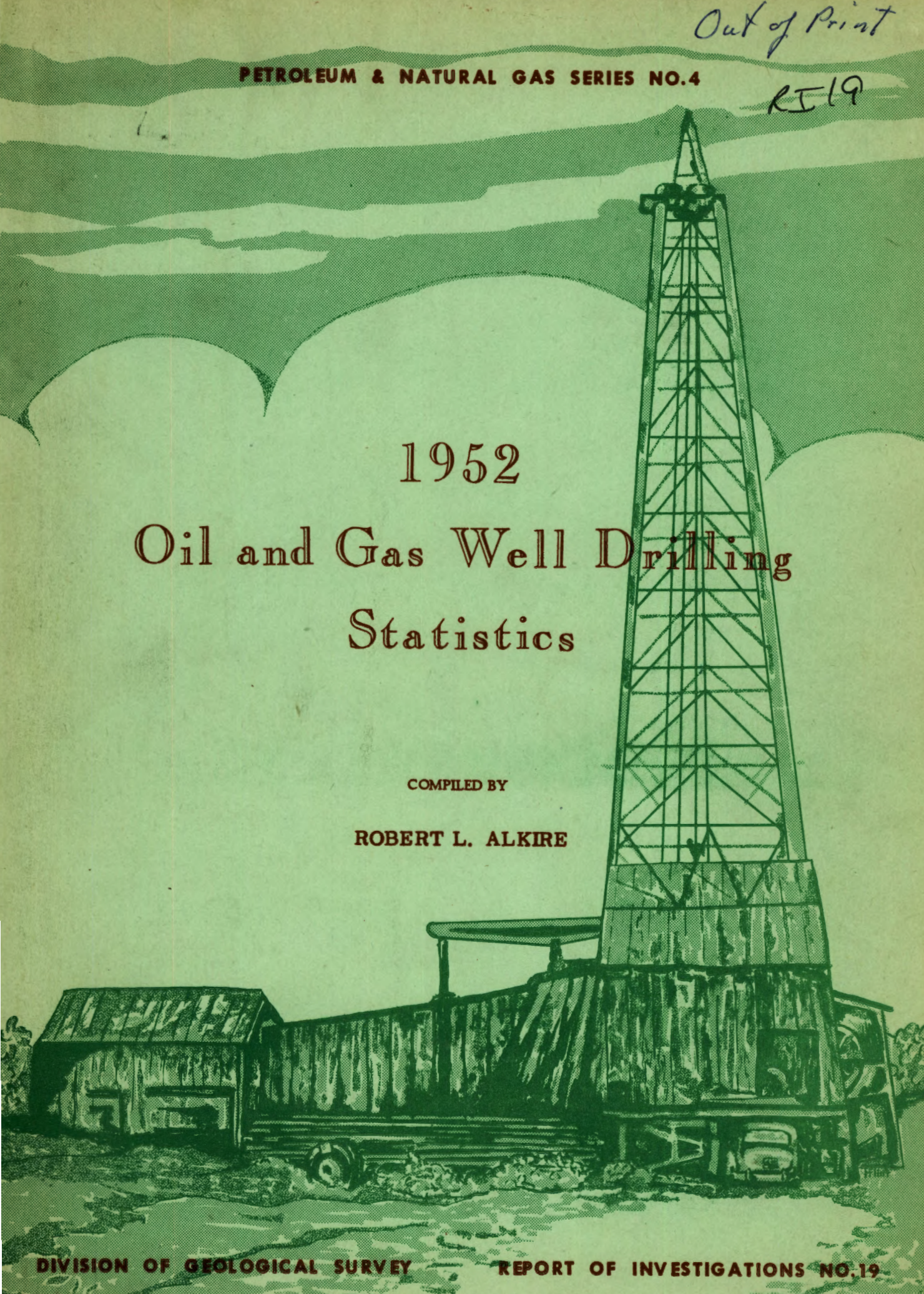


PETROLEUM & NATURAL GAS SERIES NO.4

Out of Print

RI 19



1952
Oil and Gas Well Drilling
Statistics

COMPILED BY

ROBERT L. ALKIRE

STATE OF OHIO

Frank J. Lausche,
Governor

DEPARTMENT OF NATURAL RESOURCES

A. W. Marion,
Director

NATURAL RESOURCES COMMISSION

George Wenger,
Chairman

John A. Slipher,
Vice Chairman

Bryce Browning,
Secretary

C. D. Blubaugh
Dr. C. L. Dow
A. W. Marion

Dr. John L. Rich
Milton Ronsheim
Dean L. L. Rummell

DIVISION OF GEOLOGICAL SURVEY

John H. Melvin,
Chief

State of Ohio
Frank J. Lausche, Governor
Department of Natural Resources
A. W. Marion, Director
DIVISION OF GEOLOGICAL SURVEY
John H. Melvin, Chief

REPORT OF INVESTIGATIONS NO. 19
PETROLEUM AND NATURAL GAS SERIES NO. 4

PART I
OIL AND GAS WELL DRILLING STATISTICS FOR 1952

PART II
HISTORICAL REVIEW OF OIL AND GAS DEVELOPMENTS IN OHIO

Compiled By
ROBERT L. ALKIRE

Columbus
1953

ACKNOWLEDGEMENTS

The source data for Part I, "Oil and Gas Well Drilling Statistics for 1952", were gathered by members of the Ohio Oil and Gas Scouts and made available through semi-monthly reports published by The Ohio Oil and Gas Association. Additional information was contributed by The Ohio Fuel Gas Company and The Ohio Division of Mines.

Much of the material in Part II was taken from reports prepared by K. C. Cottingham, Chief Geologist, The Ohio Fuel Gas Company, and the writer for the annual A. I. M. E. Statistical Reviews. In as much as these reviews have limited circulation the data is presented here in composite form so that it may be accessible. Other material in Part II, such as "Oil and Gas Wells Drilled in Ohio 1888 - 1952", and "Natural Gas Produced and Consumed in Ohio 1885 - 1950" have been revised and are again presented.

Report of Investigations No. 13, Oil and Gas Series No. 3, 1952, contained a listing of all oil, gas, and water well cuttings in The Survey files as of December 31, 1951. Additions during the current year are shown herein.

The writer expresses appreciation to those members of the staff who assisted in the compiling, editing, and typing the assembled data.

Robert L. Alkire
April 6, 1953

CONTENTS

PART I

Oil and Gas Well Drilling Statistics for 1952

	Page
Summary of Oil and Gas Developments in 1952	1
Summary of Oil and Gas Well Drilling - By Counties	5
Summary of Oil and Gas Well Drilling - By Sands	7
Wells Drilled Deeper, For Gas Storage, and Water Flooding	8
Summary of Oil and Gas Well Footage Drilled	9
Oil and Gas Well Drilling - By Sands	10
Oil and Gas Well Drilling - By Counties	16
Well Drilling and Abandonment Permits Issued By Division of Mines	34

PART II

Historical Review of Oil and Gas Development in Ohio

Natural Gas Produced and Consumed in Ohio, 1885 - 1950	35
Number and Percentage of Well Completions 1940 - 1952	37
Comparison of Berea and Clinton Drilling, 1940 - 1952	38
Initial Average and Number of Completions - By Sands, 1940 - 1952	39
Oil and Gas Wells Completed in Ohio - By Counties, 1940 - 1952	48
Oil and Gas Wells Drilled in Ohio, 1888 - 1952	56
Oil and Gas Well Drilling Permits Issued, 1913 - 1952	60
Supplement to Oil, Gas, and Water Cuttings (Acquisitions of 1950)	61
Oil and Gas Publications	68

ILLUSTRATIONS

Oil and Gas Fields of Ohio	Frontispiece
Areas of Oil and Gas Drilling Activity in 1952	4



© OHIO SESQUICENTENNIAL COMMISSION

PART I

OIL AND GAS WELL DRILLING STATISTICS

1952



SUMMARY OF OIL AND GAS DEVELOPMENTS IN 1952

The successful Clinton sand oil drilling begun in Newcastle Township, Coshocton County, in 1950, continued actively through 1952. Of the 60 wells completed during the year, 43 produced oil and 17 were dry. The average initial production was 53 barrels per day. The Mt. Zion pool, Jackson Township, Knox County, was the "hot spot" in the State with 73 Clinton sand completions, 56 of which were oil wells with an average initial production of 100 barrels per day, 5 were gas wells, and 12 resulted in dry holes. Numerous successful outpost wells forecast continued successful development in both pools during 1953. Hanover and Hopewell Townships, Licking County, and Hopewell Township, Perry County, also had successful Clinton sand oil development.

Ashland County retained its position as the most active area of Berea sand oil drilling. One hundred and forty-seven wells were completed, 87 of which found oil, 1 gas, and 58 were dry.

There were no significant gas discoveries during the year. This extends to seven years the period in which no major pools have been found in the State. The areas of most successful Clinton operations were LaGrange and Wellington Townships, Lorain County, and Cass, Hopewell, and Newton Townships, Muskingum County. The principal area of Berea gas discovery was Goshen Township, Tuscarawas County.

A total of 1,140 new wells were reported drilled in 49 counties in 1952. Six hundred and seventy were successful and 470 were dry, an average of 41.2 per cent failures. Initial discoveries were 151,094,000 cubic feet of gas and 13,883 barrels of oil per day. Footage drilled totaled 2,275,822 feet. The average depth of new gas wells was 2,356 feet, oil wells 1,726, combination wells 2,374, and dry holes 2,004 feet. The average depth of all new wells drilled was 1,996 feet. Of the total footage, 1,421,804 feet tested the Clinton and 360,571 reached the Berea. Successful gas wells amounted to 513,770 feet, oil wells 676,544, combination oil and gas 144,831, and dry holes 940,849 feet. Thirty-eight per cent of all new wells tested the Clinton and the Berea 32 per cent. Eighty per cent of all oil discovered was found in the Clinton.

The average depth of all new wells drilled in Ohio in 1952 by horizons follows:

Shallow Sands	840 feet
Berea	980 feet
Ohio Shale	2,260 feet
Oriskany	3,546 feet
Newburg	2,321 feet
Clinton	3,246 feet
Medina	4,037 feet
Trenton	1,299 feet
Sub-Trenton	2,438 feet

The average production during the first 24 hours after completion for new gas wells was 609,000 cubic feet, and for new oil wells 33 barrels.

Fifteen wells were drilled deeper during the year. They discovered 688,000 cubic feet of gas and 19 barrels of oil per day and added 9,882 feet of drilling.

Ninety gas storage wells added 220,503 feet of new drilling in this category.

Five water input wells (3,082 ft.) and 7 oil producers (3,846 ft.) added 6,928 feet to secondary recovery by water flood footage in the State.

Including all types of wells drilled the totals for 1952 are as follows:

Wells - new wells	1,140 Wells		2,275,822 Feet
drilled deeper	15		9,882
gas storage	90		220,503
secondary recovery	12		6,928
Totals	<u>1,257 Wells</u>		<u>2,513,135 Feet</u>
Gas - new wells	218 Wells	133,255 MCF	513,770 Feet
drilled deeper	6	688	3,685
Totals	<u>224 Wells</u>	<u>133,943 MCF</u>	<u>517,455 Feet</u>
Oil - new wells	392 Wells	11,562 Bbls.	676,544 Feet
drilled deeper	4	19	1,643
Totals	<u>396 Wells</u>	<u>11,581 Bbls.</u>	<u>678,187 Feet</u>
Combination - new wells	60 Wells	17,839 MCF	144,831 Feet
		2,321 Bbls.	
Dry holes - new wells	470 Wells		940,849 Feet
drilled deeper	5		4,554
Totals	<u>475 Wells</u>		<u>945,403 Feet</u>
Total Gas -	151,782 MCF		
Total Oil -	13,902 Bbls.		

The largest oil well during the year was the Mid-East Oil Co. - Gladys Griffith No. 3, Sec. 24, Jackson Township, Knox County. The total depth was 2,928 feet in the Clinton sand and its reported 24-hour initial production after shot was 225 barrels. The largest gas well was drilled by D. E. Bebout on the Donald Gillett farm in Lot 15, Wellington Township, Lorain County. It had a reported natural open flow of 8,960,000 cubic feet per day from the Clinton.

Ashland County led the State in total wells drilled with 160. Washington followed with 116, Knox 103, Coshocton 90, Holmes 67, and Licking 65.

The leading counties in initial gas discoveries were Washington with 28,328,000 cubic feet per day, Lorain 22,056,000, Muskingum 18,860,000, Tuscarawas 17,153,000, and Perry 7,718,000.

The most successful counties for new oil were Knox with 5,924 barrels initial per day, Coshocton 2,967, Licking 1,759, and Ashland 1,001.

OIL DEVELOPMENT

One new pool of note was found during the year. The discovery well was the Preston Oil Company - Reese No. 1, Section 11, Newcastle Township, Coshocton County. Average initial production of four wells completed in the pool was 57 barrels, and average depth through the Clinton was 3,390 feet.

The more important extensions to older pools were as follows:

Newcastle Township, Coshocton County, southwest quarter, 26 wells averaged 45 barrels and proved about 450 acres. The average depth to the Clinton was 3,325 feet. Eleven wells elsewhere in Newcastle Township, averaged 79 barrels and proved approximately 300 acres.

Knox County, Jackson Township, southwest quarter, 34 wells averaged 126 barrels initial and proved approximately 1,000 acres. The Clinton averaged 3,000 feet in depth.

Licking County, Hanover Township, Lots 10, 11, and 15, 2nd Quarter, 12 wells proved 350 acres. The average initial was 74 barrels and Clinton depth 2,800.

Holmes County, Washington Township, Sections 23 and 33, 6 Berea wells averaged 28 barrels and 675 feet: approximately 100 acres were proved.

Ashland County, Perry Township, 67 wells averaged 12 barrels and proved approximately 125 acres. The Berea sand averaged 675 feet in depth.

GAS DEVELOPMENT

Approximately 2, 500 acres were proved as the result of 4 new gas-pool discoveries. They were as follows:

East-central LaGrange Township, Lorain County, in which 7 Clinton gas wells were drilled. The average initial open flow was 1, 062, 000 cubic feet per day and the average rock pressure 1, 125 psi. The proved area amounts to approximately 1, 000 acres and the wells average 2, 646 feet in depth. Ohio Fuel Gas Company - Knowles No. 1 was the discovery well.

Four wells with average initial open flow of 1, 183, 000 cubic feet, and 844 psi rock pressure, were discovered in northeastern Hopewell Township, Muskingum County. The Clinton sand was found at an average depth of 3, 269 feet, and approximately 400 acres were proved. The discovery well was the Yocum - Fink No. 1, in Section 12.

A Clinton pool was discovered in southeastern Cass Township, Muskingum County, by the Wasson Oil and Gas Company - Scarpellini No. 1, in Lot 16, 4th Quarter. Approximately 600 acres were proved by 4 wells averaging 307, 000 cubic feet and 940 psi rock pressure initial. The average depth was 3, 611 feet.

The Blood-Everhard No. 1, in Section 9, Goshen Township, Tuscarawas County, discovered a Berea sand pool. Six productive wells averaged 806, 000 cubic feet and 391 psi rock pressure initial. Approximately 500 acres were proved.

Extensions to older gas pools added about 13, 000 acres to proved territory. The more important were:

Seven Oriskany sand wells were completed in Belpre Township, Washington County. Approximately 1, 200 acres were proved. The wells averaged 2, 643, 000 cubic feet, 1, 570 psi and 4, 123 feet depth.

Four Oriskany sand wells in northeastern Boston Township, Summit County, added approximately 400 acres to a pool discovered in 1946. The averages were 568, 000 cubic feet, 513 psi, and 1, 063 feet depth.

Approximately 600 acres were added to an old pool in north-central Washington Township, Hocking County. The average depth of the 4 wells was 2, 796 feet, initial open flow 665, 000 cubic feet, and rock pressure 597 psi.

Seven Ohio Shale wells added approximately 1, 200 acres to a pool in northwest Windsor Township, Lawrence County. The average initials were 249, 000 cubic feet, 404 psi, and 2, 596 feet.

A Berea sand pool discovered in 1944 was extended 400 acres by 7 wells with averages of 512, 000 cubic feet, 320 psi, and 1, 112 feet depth. They were located in northeast Washington Township, Tuscarawas County.

EXPLORATORY WELLS

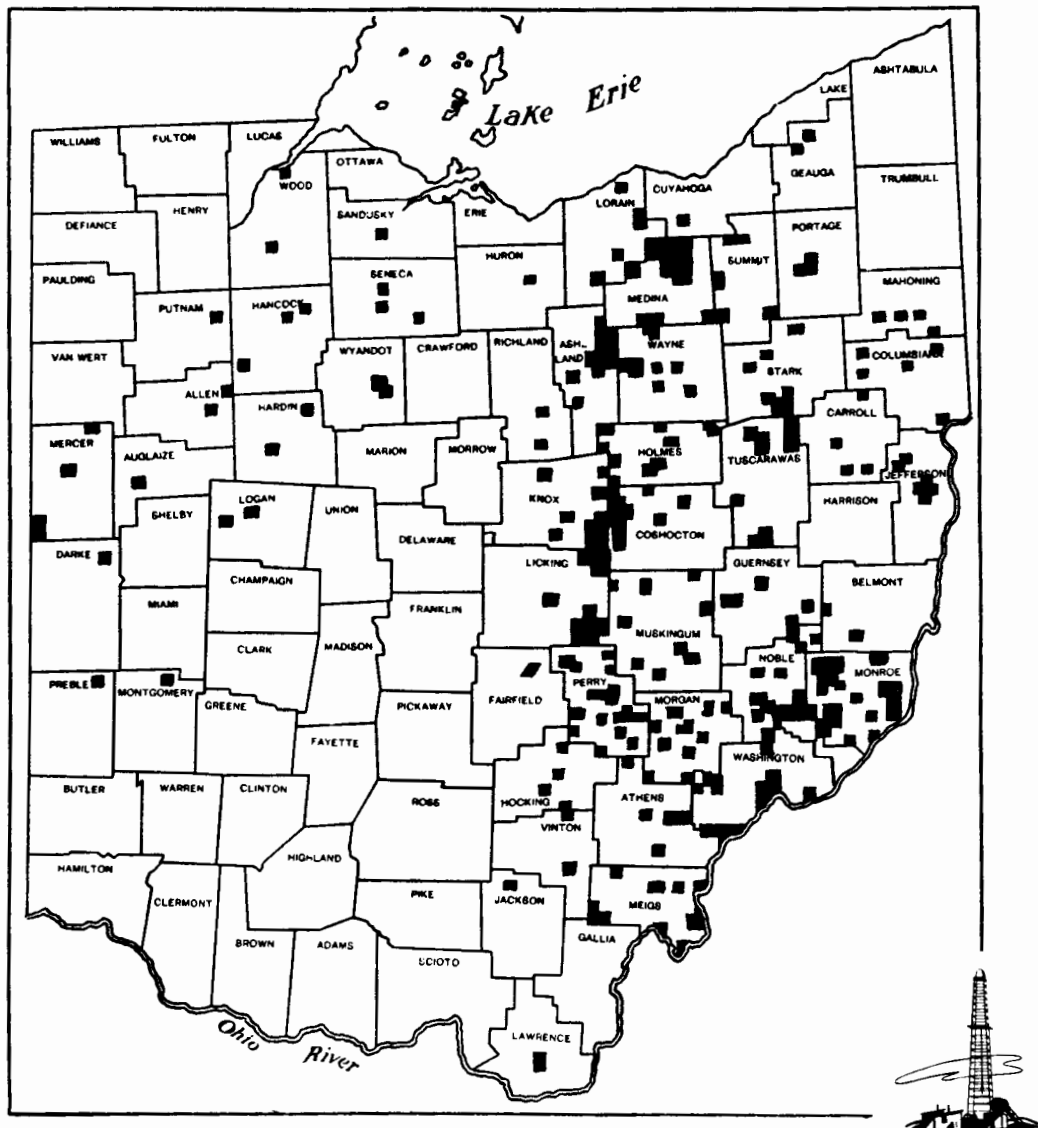
Exploratory drilling results during the year were again only meagerly successful. Of the 60 wells in this category 46 were dry holes. Thirty-two wells reached the Clinton sand, Medina 3, Oriskany 12, Ohio Shale 3, Berea 7, Trenton 1, and St. Peter 2. The deepest was the Surety Rubber Company - Raab No. 1, Section 32, Ross Township, Jefferson County. The Clinton sand was recorded from 6, 705 to 6, 763, dry, with total depth 6, 860 feet.

The largest gas well in this category was the Ohio Fuel Gas Company - Botsford No. 1, Section 15, Wellington Township, Lorain County. The Clinton sand was found from 2, 287 to 2, 294 feet and yielded 4, 920, 000 cubic feet natural. Others were: The Ohio Fuel Gas Company - Herwig No. 1, Lot 87, Montville Township, Medina County. The Clinton occurred from 3, 365 to 3, 390 feet and produced 304, 000 cubic feet initial after a 30-quart nitro-glycerine shot. The Leonard Blood - Everhard No. 1, Section 9, Goshen Township, Tuscarawas County, found 1, 500, 000 cubic feet natural in the Berea sand at 867 to 914 feet.

The most successful exploratory oil well was the Preston Oil Company - Reese No. 1, Section 11, Newcastle Township, Coshocton County. The Clinton sand was found from 3,325 to 3,380 feet and produced 77 barrels initial after a 110-quart nitro-glycerine shot.

Counties in which no oil or gas test wells were reported drilled during 1952 are: Adams, Ashtabula, Brown, Butler, Champaign, Clark, Clermont, Clinton, Crawford, Defiance, Delaware, Erie, Fayette, Franklin, Fulton, Gallia, Greene, Hamilton, Harrison, Henry, Highland, Lake, Lucas, Marion, Miami, Morrow, Ottawa, Paulding, Pickaway, Pike, Ross, Scioto, Shelby, Trumbull, Union, Van Wert, Warren, and Williams.

It should be noted that production figures, referred to above, as well as those which appear elsewhere in Part I of this report, refer only to production during the first 24 hours after completion and do not necessarily reflect annual producing capacity.



AREAS OF OIL AND GAS DRILLING ACTIVITY IN 1952

SUMMARY OF OIL AND GAS WELL DRILLING - BY COUNTIES *
1952

County	GAS		OIL		COMBINATION		Producing Wells	Total MCF	Total Bbls	Dry Holes	Total Wells	Total Feet	Per Cent Dry
	Wells	MCF	Wells	Bbls	Wells	MCF							
Allen	8	3,409	85	933	4	752	68	0	0	2	2	2,745	100.0
Ashland	3	680	12	45				4,161	1,001	63	160	143,409	39.7
Athens	3	971						680	45	6	21	16,299	28.6
Auglaize	1	521						0	0	1	1	1,203	100.0
Belmont	1	46						971	0	6	9	12,871	66.6
Carroll	1	320						521	0	11	12	13,183	91.7
Columbiana	1	681						46	0	7	8	7,298	87.5
Coshocton	1		56	2,770	7	3,089	197	3,409	2,967	26	90	295,736	29.2
Cuyahoga	1							681	0	2	3	8,199	66.6
Darke			2	105				0	0	2	2	2,381	100.0
Fairfield								0	105	2	4	8,643	50.0
Geauga								0	0	2	2	7,258	100.0
Guernsey	7	712	1	13				712	0	5	12	14,868	41.7
Hancock								0	13	2	3	3,896	66.6
Hardin								0	0	2	2	2,751	100.0
Hocking	4	3,404	2	38				3,404	38	6	12	33,827	50.0
Holmes	15	5,375	13	139	15	2,077	384	7,452	523	24	67	125,732	35.8
Huron								0	0	2	2	1,785	100.0
Jackson								0	0	1	1	716	100.0
Jefferson	4	947	2	8				947	8	15	21	25,272	71.4
Knox	7	5,637	61	5,434	7	1,822	490	7,459	5,924	28	103	286,487	27.2
Lawrence	9	1,975						1,975	0	2	11	27,474	18.2
Licking	4	2,324	27	917	14	5,020	842	7,344	1,759	20	65	165,027	30.8
Logan								0	0	2	2	3,694	100.0
Lorain	12	22,056						22,056	0	4	16	37,502	22.2
Mahoning	9	2,580	2	4				0	4	5	7	7,348	71.4
Medina	8	1,928	2	20				2,580	20	22	33	74,094	66.6
Meigs	8	1,670	8	76	1	130	2	2,058	78	8	25	35,065	32.0
Mercer	17	1,670	11	79	3	452	20	0	79	2	13	15,229	16.6
Monroe	3	778	9	30				2,122	50	19	48	72,891	39.6
Montgomery	14	17,498	10	38				0	0	1	1	1,175	100.0
Morgan	2	141	3	20	1	1,362	2	778	38	11	24	25,657	45.8
Muskingum	8	5,626	13	83				18,860	22	13	31	98,931	41.9
Noble	1	125	19	433	3	2,092	95	141	83	21	36	38,193	57.7
Perry								7,718	528	22	52	144,951	43.1
Portage								125	0	3	4	17,105	75.0
Preble								0	0	1	1	1,102	100.0

MCF - thousand cubic feet of gas

Bbls. - standard 42 gallon barrels of oil

SUMMARY OF OIL AND GAS WELL DRILLING - BY COUNTIES *
1952 - continued

County	GAS		OIL		COMBINATION		Producing Wells	Total MCF	Total Bbbls	Dry Holes	Total Wells	Total Feet	Per Cent Dry
	Wells	MCF	Wells	Bbbls	Wells	MCF							
Putnam			2	40			2	0	40	1	3	4,161	33.3
Richland	1	100					1	100	0	2	3	7,882	66.6
Sandusky							0	0	0	1	1	1,490	100.0
Seneca			1	15			1	0	15	2	3	5,539	66.6
Stark	9	3,333					9	3,333	0	4	13	56,760	30.8
Summit	2	551	1	15			3	551	15	11	14	44,671	78.6
Tuscarawas	30	17,153					30	17,153	0	14	44	102,480	31.8
Vinton			1	2			1	0	2	2	3	6,970	66.6
Washington	29	27,515	41	181	4	813	74	28,328	398	42	116	200,580	36.2
Wayne	3	4,399	3	5	1	230	7	4,629	9	12	19	44,844	63.2
Wood			2	28			2	0	28	1	3	4,055	33.3
Wyandot	2	800	3	91			5	800	91	7	12	16,393	58.3
TOTALS	218	133,255	392	11,562	60	17,839	670	151,094	13,883	470	1,140	2,275,822	

Average of Dry Holes 41.2 Per Cent

* Based on reported production at completion. Wells drilled deeper, for gas storage or water flooding not included.

SUMMARY OF OIL AND GAS WELL DRILLING - BY SANDS *
1952

Sands	GAS		OIL		COMBINATION		Producing Wells	Total MCF	Total Bbls	Dry Holes	Total Wells	Total Feet	Per Cent Dry						
	MCF		Bbls		MCF									Wells	Bbls	Holes	Wells	Feet	Dry
	Wells		Wells		Wells														
Goose Run			2	3			2	0	3	1	3	594	66.6						
Horseneck			2	12			2	0	12	0	2	1,128	0						
Mitchell							0	0	0	1	1	445	100.0						
Vincent			1	2			1	0	2	0	1	670	0						
Peeker			18	108			18	0	108	6	24	17,135	25.0						
Cow Run	12	2,777	29	99			41	2,777	99	29	70	34,554	41.4						
Buell			4	6			4	0	6	4	8	3,765	50.0						
Macksburg			4	27			4	0	27	4	8	7,557	50.0						
Stray							0	0	0	4	4	3,778	100.0						
Germantown	2	208	8	43			10	208	33	7	17	19,020	41.2						
Salt Sand	6	1,393	1	3	2	377	9	1,770	16	10	19	14,579	52.6						
Maxton	3	430	3	23			6	430	23	4	10	10,998	40.0						
Lime Sand					1	518	1	518	183	0	1	1,206	0						
Keener	2	565	2	6	1	75	5	640	13	5	10	13,846	50.0						
Injun	6	1,585	6	18	3	295	15	1,880	52	11	26	38,935	42.3						
Squaw			1	5			1	0	5	4	5	7,315	80.0						
Berea	73	16,151	139	1,206	12	1,566	224	17,717	1,480	144	368	360,751	39.1						
Shale	9	2,139					9	2,139	0	6	15	33,899	40.0						
Oriskany	10	24,548	1	15			11	24,548	15	22	33	117,005	66.6						
Newburg	3	1,653	3	125			6	1,653	125	1	7	16,247	14.3						
Clinton	88	80,692	148	9,595	41	15,008	277	95,700	11,405	161	438	1,421,804	36.8						
Medina	2	314					2	314	0	19	21	84,777	90.5						
Trenton	2	800	20	266			22	800	266	25	47	60,937	53.2						
St. Peter							0	0	0	2	2	4,877	100.0						
TOTALS	218	133,255	392	11,562	60	17,839	670	151,094	13,883	470	1,140	2,275,822							

Average of Dry Holes 41.2 Per Cent

* Based on reported production at completion. Wells drilled deeper, for gas storage or water flooding not included.

**WELLS DRILLED DEEPER, FOR GAS STORAGE, AND
WATER FLOODING IN 1952**

Wells Drilled Deeper

<u>Horizon</u>	<u>Number</u>	<u>GAS</u>		<u>OIL</u>		<u>DRY Feet</u>
		<u>MCF</u>	<u>Feet</u>	<u>Bbls</u>	<u>Feet</u>	
Peeker to Berea	1					818
Cow Run to Berea	1	358	930			
Macksburg to Maxton	2	109	161			
Stray to Berea	1	60	557			
Salt to Berea	1	58	604			
Lime to Squaw	1			2	284	
Keener to Berea	1			4	540	
Injun to Berea	2			8	637	531
Berea to Shale	2					3,090
Oriskany to Clinton	1	103	1,433			
Clinton to Medina	2			5	182	115
<u>Totals</u>	<u>15</u>	<u>688</u>	<u>3,685</u>	<u>19</u>	<u>1,643</u>	<u>4,554</u>

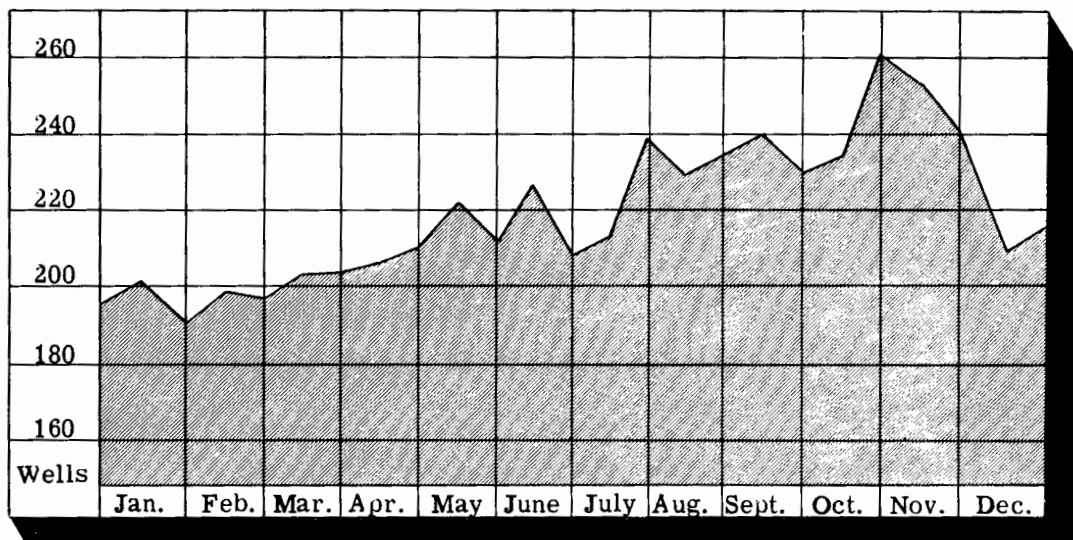
Gas Storage Wells

<u>Horizon</u>	<u>Number</u>	<u>Feet</u>
Berea	5	4,101
Oriskany	2	7,174
Clinton	83	209,228
<u>Totals</u>	<u>90</u>	<u>220,503</u>

Secondary Oil Recovery - Water Flooding

<u>Horizon</u>	<u>Input Wells Number</u>	<u>Feet</u>	<u>Horizon</u>	<u>Producer Wells Number</u>	<u>Feet</u>
Berea	5	3,082	Berea	7	3,846

OIL AND GAS WELLS COMPLETED AND DRILLING - BY MONTHS



SUMMARY OF OIL AND GAS WELL DRILLING - 1952*
FOOTAGE DRILLED

<u>COUNTY</u>	<u>GAS WELLS</u>	<u>OIL WELLS</u>	<u>COMBINATION</u>	<u>DRY HOLES</u>	<u>TOTAL</u>
	Feet	Feet	WELLS Feet	Feet	Feet
Allen				2,745	2,745
Ashland	20,659	61,932	4,676	56,142	143,409
Athens	3,317	7,009		5,973	16,299
Auglaize				1,203	1,203
Belmont	4,348			8,523	12,871
Carroll	452			12,731	13,183
Columbiana	762			6,536	7,298
Coshocton	3,405	183,204	22,649	86,478	295,736
Cuyahoga	3,184			5,015	8,199
Darke				2,381	2,381
Fairfield		3,939		4,704	8,643
Geauga				7,258	7,258
Guernsey	10,122			4,746	14,868
Hancock		1,360		2,536	3,896
Hardin				2,751	2,751
Hocking	11,476	5,472		16,879	33,827
Holmes	31,010	20,501	28,532	45,689	125,732
Huron				1,785	1,785
Jackson				716	716
Jefferson	2,677	2,564		20,031	25,272
Knox	17,632	177,978	21,533	69,344	286,487
Lawrence	22,803			4,671	27,474
Licking	11,952	57,889	39,602	55,584	165,027
Logan				3,694	3,694
Lorain	27,200			10,302	37,502
Mahoning		1,359		5,989	7,348
Medina	18,751	922		54,421	74,094
Meigs	10,684	12,650	1,988	9,743	35,065
Mercer		12,838		2,391	15,229
Monroe	27,559	13,678	3,295	28,359	72,891
Montgomery				1,175	1,175
Morgan	1,856	4,391		19,410	25,657
Muskingum	48,797	6,767	3,575	39,792	98,931
Noble	2,313	13,299		22,581	38,193
Perry	23,780	42,362	9,101	69,708	144,951
Portage	4,201			12,904	17,105
Preble				1,102	1,102
Putnam		2,793		1,368	4,161
Richland	2,580			5,302	7,882
Sandusky				1,490	1,490
Seneca		1,495		4,044	5,539
Stark	41,945			14,815	56,760
Summit	5,961	2,094		36,616	44,671
Tuscarawas	75,230			27,250	102,480
Vinton		860		6,110	6,970
Washington	70,331	30,154	5,828	94,267	200,580
Wayne	7,199	2,035	3,081	32,529	44,844
Wood		2,725		1,330	4,055
Wyandot	1,412	4,274		10,707	16,393
<u>TOTALS</u>	513,598	676,544	143,860	941,820	2,275,822

Average Depth- Gas Wells	2,356 Feet
- Oil Wells	1,726 Feet
- Combination Wells	2,374 Feet
- Dry Holes	2,004 Feet
- All Wells	1,996 Feet

*Wells drilled deeper, for gas storage, or water flooding not included.

OIL AND GAS WELL DRILLING - BY SANDS *

1952

Abbreviations:

MCF - thousand cubic feet of gas

Bbls - standard 42 gallon barrels of oil

GOOSE RUN SAND

County	Wells	<u>GAS</u>		Wells	<u>OIL</u>		<u>COMBINATION</u>				<u>DRY HOLE</u>	
		MCF	Feet		Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	Feet
Washington				2	3	354					1	240
<u>Totals</u>				2	3	354					1	240

TOTAL WELLS 3
TOTAL BBLs 3
TOTAL FEET 594
PER CENT DRY 66.6

HORSENECK SAND

Washington 2 12 1,128

MITCHELL SAND

Washington 1 445

VINCENT SAND

Washington 1 2 670

PEEKER SAND

Morgan	3	5	1,475				1	130
Washington	15	103	11,328				5	4,202
<u>Totals</u>	18	108	12,803				6	4,332

TOTAL WELLS 24
TOTAL BBLs 108
TOTAL FEET 17,135
PER CENT DRY 25.0

COW RUN SAND

Athens				9	33	3,647			4	1,283
Belmont									1	710
Carroll	1	521	452						2	992
Guernsey									2	1,067
Meigs	5	903	2,617	1	2	236			3	713
Monroe	1	56	1,307	2	4	1,753			3	2,581
Morgan	3	778	1,856	7	33	2,916			6	3,339
Muskingum									2	168
Noble									1	404
Tuscarawas	2	519	778							
Washington				10	27	4,970			5	2,765
<u>Totals</u>	12	2,777	7,010	29	99	13,522			29	14,022

TOTAL WELLS 70
TOTAL MCF 2,777
TOTAL BBLs 99
TOTAL FEET 34,554
PER CENT DRY 41.4

* Wells drilled deeper, for gas storage, or water flooding not-included.

BUELL RUN SAND

County	Wells	<u>GAS</u>		Wells	<u>OIL</u>		<u>COMBINATION</u>				<u>DRY HOLE</u>	
		MCF	Feet		Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	Feet
Noble											3	942
Washington				4	6	2,498					1	325
<u>Totals</u>				4	6	2,498					4	1,267
<u>TOTAL WELLS</u>	8											
<u>TOTAL BBLs</u>	6											
<u>TOTAL FEET</u>	3,765											
<u>PER CENT DRY</u>	50.0											

MACKSBURG SAND

Noble				4	27	3,835					3	2,862
Washington											1	860
<u>Totals</u>				4	27	3,835					4	3,722
<u>TOTAL WELLS</u>	8											
<u>TOTAL BBLs</u>	27											
<u>TOTAL FEET</u>	7,557											
<u>PER CENT DRY</u>	50.0											

STRAY SAND

Meigs											2	1,610
Washington											2	2,168
<u>Totals</u>											4	3,778

GERMANTOWN SAND

Monroe											1	1,143
Noble				5	30	5,498					6	7,287
Washington	2	208	2,197	3	13	2,895						
<u>Totals</u>	2	208	2,197	8	43	8,393					7	8,430
<u>TOTAL WELLS</u>	17											
<u>TOTAL MCF</u>	208											
<u>TOTAL BBLs</u>	43											
<u>TOTAL FEET</u>	19,020											
<u>PER CENT DRY</u>	41.2											

SALT SAND

Jefferson	3	567	1,771								10	7,287
Monroe	3	826	3,012				2	377	13	1,745		
Noble				1	3	764						
<u>Total</u>	6	1,393	4,783	1	3	764	2	377	13	1,745	10	7,287
<u>TOTAL WELLS</u>	19											
<u>TOTAL MCF</u>	1,770											
<u>TOTAL BBLs</u>	16											
<u>TOTAL FEET</u>	14,579											
<u>PER CENT DRY</u>	52.6											

MAXTON SAND

Athens	2	355	1,730								1	958
Belmont	1	75	1,330								1	1,375
Monroe											1	1,330
Noble				3	23	3,202					1	1,073
<u>Totals</u>	3	430	3,060	3	23	3,202					4	4,736

MAXTON SAND - continued

County	Wells	<u>GAS</u>		Wells	<u>OIL</u>		<u>COMBINATION</u>				<u>DRY HOLE</u>	
		MCF	Feet		Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	Feet
<u>TOTAL WELLS</u>		10										
<u>TOTAL MCF</u>		430										
<u>TOTAL BBLs</u>		23										
<u>TOTAL FEET</u>	10,998											
<u>PER CENT DRY</u>		40.0										

LIME SAND

Washington 1 518 183 1,206

KEENER SAND

Monroe				1	5	1,580	1	75	7	1,550		
Noble	1	65	973								1	971
Washington	$\frac{1}{1}$	$\frac{500}{500}$	$\frac{1,475}{1,475}$	$\frac{1}{1}$	$\frac{1}{1}$	$\frac{1,802}{1,802}$	$\frac{1}{1}$	$\frac{75}{75}$	$\frac{7}{7}$	$\frac{1,550}{1,550}$	$\frac{4}{4}$	$\frac{5,495}{5,495}$
<u>Totals</u>	<u>2</u>	<u>565</u>	<u>2,448</u>	<u>2</u>	<u>6</u>	<u>3,382</u>	<u>1</u>	<u>75</u>	<u>7</u>	<u>1,550</u>	<u>5</u>	<u>6,466</u>

<u>TOTAL WELLS</u>	10
<u>TOTAL MCF</u>	640
<u>TOTAL BBLs</u>	13
<u>TOTAL FEET</u>	13,846
<u>PER CENT DRY</u>	50.0

INJUN SAND

Jefferson	1	380	906									
Monroe	1	200	1,302	5	17	8,178					6	9,711
Noble											1	905
Washington	$\frac{4}{6}$	$\frac{1,005}{1,585}$	$\frac{6,098}{8,306}$	$\frac{1}{6}$	$\frac{1}{18}$	$\frac{1,575}{9,753}$	$\frac{3}{3}$	$\frac{295}{295}$	$\frac{34}{34}$	$\frac{4,622}{4,622}$	$\frac{4}{11}$	$\frac{5,638}{16,254}$
<u>Totals</u>	<u>6</u>	<u>1,585</u>	<u>8,306</u>	<u>6</u>	<u>18</u>	<u>9,753</u>	<u>3</u>	<u>295</u>	<u>34</u>	<u>4,622</u>	<u>11</u>	<u>16,254</u>

<u>TOTAL WELLS</u>	26
<u>TOTAL MCF</u>	1,880
<u>TOTAL BBLs</u>	52
<u>TOTAL FEET</u>	38,935
<u>PER CENT DRY</u>	42.3

SQUAW SAND

Monroe											3	4,319
Noble											1	1,501
Washington				$\frac{1}{1}$	$\frac{5}{5}$	$\frac{1,495}{1,495}$					$\frac{4}{4}$	$\frac{5,820}{5,820}$
<u>Totals</u>				<u>1</u>	<u>5</u>	<u>1,495</u>					<u>4</u>	<u>5,820</u>

<u>TOTAL WELLS</u>	5
<u>TOTAL BBLs</u>	5
<u>TOTAL FEET</u>	7,315
<u>PER CENT DRY</u>	80.0

BEREA SAND

Ashland	1	59	749	85	933	61,932	3	679	60	2,013	58	41,699
Athens	1	325	1,587	3	12	3,362						
Belmont	2	896	3,018								4	6,438
Carroll											9	11,739
Columbiana	1	46	762								5	4,055
Coshocton				1	5	1,033						
Guernsey	7	712	10,122								3	3,679
Holmes	7	716	5,252	9	69	7,195	8	757	212	5,491	13	9,941
Jackson											1	716
Jefferson				2	8	2,564					4	5,884
Knox	1	100	710	1	1	635					5	3,921

BEREA SAND - continued

County	<u>GAS</u>			<u>OIL</u>			<u>COMBINATION</u>				<u>DRY HOLE</u>	
	Wells	MCF	Feet	Wells	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	Feet
Lawrence	1	100	2,435									
Licking				11	39	8,353					2	1,323
Lorain	1	125	286									
Mahoning				2	4	1,359					4	2,465
Medina	4	250	1,824	2	20	922					6	3,076
Meigs	2	825	3,825	7	74	12,414	1	130	2	1,988	2	3,478
Monroe	12	588	21,938	1	4	2,167					5	9,275
Morgan											1	1,329
Muskingum				2	6	2,464						
Noble	1	76	1,340								4	6,636
Perry	2	108	2,043	8	16	8,861					1	1,128
Stark											1	709
Tuscarawas	16	9,550	16,334								11	12,236
Vinton				1	2	860						
Washington	13	1,616	24,878	1	8	1,439					2	3,825
Wayne	1	59	760	3	5	2,035					3	2,249
<u>Totals</u>	<u>73</u>	<u>16,151</u>	<u>97,863</u>	<u>139</u>	<u>1,206</u>	<u>117,595</u>	<u>12</u>	<u>1,566</u>	<u>274</u>	<u>9,492</u>	<u>144</u>	<u>135,801</u>

TOTAL WELLS 368
TOTAL MCF 17,717
TOTAL BBLs 1,480
TOTAL FEET 360,751
PER CENT DRY 39.1

OHIO SHALE

Columbiana											2	2,481
Hocking											1	1,799
Lawrence	8	1,875	20,368								2	4,671
Washington	1	264	2,549								1	2,031
<u>Totals</u>	<u>9</u>	<u>2,139</u>	<u>22,917</u>								<u>6</u>	<u>10,982</u>

TOTAL WELLS 15
TOTAL MCF 2,139
TOTAL FEET 33,899
PER CENT DRY 40.0

ORISKANY SAND

Cuyahoga											1	1,880
Huron											2	1,785
Mahoning											1	3,524
Meigs	1	200	4,242								1	3,942
Muskingum											1	3,070
Summit	1	426	2,267	1	15	2,094					3	6,241
Washington	8	23,922	33,134								13	54,826
<u>Totals</u>	<u>10</u>	<u>24,548</u>	<u>39,643</u>	<u>1</u>	<u>15</u>	<u>2,094</u>					<u>22</u>	<u>75,268</u>

TOTAL WELLS 33
TOTAL MCF 24,548
TOTAL BBLs 15
TOTAL FEET 117,005
PER CENT DRY 66.6

NEWBURG SAND

County	Wells	<u>GAS</u>		Wells	<u>OIL</u>		<u>COMBINATION</u>				<u>DRY HOLE</u>	
		MCF	Feet		Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	Feet
Cuyahoga	1	681	3,184									
Fairfield				2	105	3,939						
Holmes	1	579	2,498									
Knox	1	393	2,221	1	20	2,165					1	2,240
<u>Totals</u>	3	1,653	7,903	3	125	6,104					1	2,240

<u>TOTAL WELLS</u>	7
<u>TOTAL MCF</u>	1,653
<u>TOTAL BBLs</u>	125
<u>TOTAL FEET</u>	16,247
<u>PER CENT DRY</u>	14.3

CLINTON SAND

Ashland	7	3,350	19,910				1	73	8	2,663	5	14,443
Athens											1	3,732
Coshocton	1	320	3,405	55	2,765	182,171	7	3,089	197	22,649	26	86,478
Cuyahoga											1	3,135
Fairfield											2	4,704
Geauga											2	7,258
Hocking	4	3,404	11,476	2	38	5,472					5	15,080
Holmes	7	4,080	23,260	4	70	13,306	7	1,320	172	23,041	11	35,748
Jefferson											1	6,860
Knox	5	5,144	14,701	59	5,413	175,178	7	1,822	490	21,533	22	63,183
Licking	4	2,324	11,952	16	878	49,536	14	5,020	842	39,602	18	54,261
Lorain	11	21,931	26,914								4	10,302
Medina	5	2,330	16,927								16	51,345
Muskingum	14	17,498	48,797	1	14	4,303	1	1,362	2	3,575	5	17,164
Perry	4	5,204	14,051	11	417	33,501	3	2,092	95	9,101	14	43,048
Portage	1	125	4,201								3	12,904
Richland	1	100	2,580								2	5,302
Stark	9	3,333	41,945								3	14,106
Summit	1	125	3,694								8	30,375
Tuscarawas	12	7,084	58,118								3	15,014
Wayne	2	4,340	6,439				1	230	4	3,081	9	30,280
<u>Totals</u>	88	80,692	308,370	148	9,595	463,467	41	15,008	1,810	125,245	161	524,722

<u>TOTAL WELLS</u>	438
<u>TOTAL MCF</u>	95,700
<u>TOTAL BBLs</u>	11,405
<u>TOTAL FEET</u>	1,421,804
<u>PER CENT DRY</u>	36.8

MEDINA SAND

Morgan											3	14,612
Muskingum											5	19,390
Perry	2	314	7,686								7	25,532
Vinton											2	6,110
Washington											2	11,447
<u>Totals</u>	2	314	7,686								19	77,091

<u>TOTAL WELLS</u>	21
<u>TOTAL MCF</u>	314
<u>TOTAL FEET</u>	84,777
<u>PER CENT DRY</u>	90.5

OIL AND GAS WELL DRILLING-BY COUNTIES

1952

Abbreviations:

MCF - Thousand cubic feet of gas - reported open flow at completion.

Bbls - Barrels of oil reported for first 24 hours at completion.

Feet - Total feet (footage) drilled.

ALLEN COUNTY

Sand	<u>First Half</u>			<u>Last Half</u>			<u>Total</u>					
	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet
<u>DRY HOLES</u>												
Trenton	1			1,383	1			1,362	2			2,745

ASHLAND COUNTYGAS WELLS

Berea	1	59		749					1	59		749
Clinton	6	2,850		16,970	1	500		2,940	7	3,350		19,910
<u>Totals</u>	7	2,909		17,719	1	500		2,940	8	3,409		20,659

OIL WELLS

Berea	46		488	33,705	39		445	28,227	85		933	61,932
-------	----	--	-----	--------	----	--	-----	--------	----	--	-----	--------

COMBINATION WELLS

Berea	2	594	10	1,252	1	85	50	761	3	679	60	2,013
Clinton	1	73	8	2,663					1	73	8	2,663
<u>Totals</u>	3	667	118	3,915	1	85	50	761	4	752	68	4,676

DRY HOLES

Berea	32			22,743	26			18,956	58			41,699
Clinton	2			5,695	3			8,748	5			14,443
<u>Totals</u>	34			28,438	29			27,704	63			56,142

<u>TOTAL WELLS</u>		90				70				160		
<u>TOTAL MCF</u>		3,576				585				4,161		
<u>TOTAL BBLs</u>		506				495				1,001		
<u>TOTAL FEET</u>		83,777				59,632				143,409		

PER CENT DRY - 39.7

GAS STORAGE WELLS - 39 Clinton, TOTAL FEET: 106,501

ATHENS COUNTY

<u>Sand</u>	<u>First Half</u>			<u>Last Half</u>			<u>Total</u>					
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>GAS WELLS</u>												
Maxton	1	175		975	1	180		755	2	355		1,730
Berea	1	325		1,587					1	325		1,587
<u>Totals</u>	<u>2</u>	<u>500</u>		<u>2,562</u>	<u>1</u>	<u>180</u>		<u>755</u>	<u>3</u>	<u>680</u>		<u>3,317</u>
<u>OIL WELLS</u>												
Cow Run	2		15	805	7		18	2,842	9		33	3,647
Berea	1		3	1,219	2		9	2,143	3		12	3,362
<u>Totals</u>	<u>3</u>		<u>18</u>	<u>2,024</u>	<u>9</u>		<u>27</u>	<u>4,985</u>	<u>12</u>		<u>45</u>	<u>7,009</u>
<u>DRY HOLES</u>												
Cow Run	2			331	2			952	4			1,283
Maxton					1			958	1			958
Clinton					1			3,732	1			3,732
	<u>2</u>			<u>331</u>	<u>4</u>			<u>5,642</u>	<u>6</u>			<u>5,973</u>
<u>TOTAL WELLS</u>		7				14				21		
<u>TOTAL MCF</u>		500				180				680		
<u>TOTAL BBLs</u>		18				27				45		
<u>TOTAL FEET</u>		4,917				11,382				16,299		
<u>PER CENT DRY - 28.6</u>												
<u>DRILLED DEEPER -</u> 1 Cow Run to 2nd Berea, 358 MCF, TOTAL FEET: 930												
1 Macksburg to Maxton, 29 MCF, TOTAL FEET: 45												

AUGLAIZE COUNTY

<u>DRY HOLES</u>												
Trenton					1			1,203	1			1,203

BELMONT COUNTY

<u>GAS WELLS</u>												
Maxton					1	75		1,330	1	75		1,330
Berea	1	638		1,505	1	258		1,513	2	896		3,018
<u>Totals</u>	<u>1</u>	<u>638</u>		<u>1,505</u>	<u>2</u>	<u>333</u>		<u>2,843</u>	<u>3</u>	<u>971</u>		<u>4,348</u>
<u>DRY HOLES</u>												
Cow Run					1			710	1			710
Maxton					1			1,375	1			1,375
Berea					4			6,438	4			6,438
<u>Totals</u>					<u>6</u>			<u>8,523</u>	<u>6</u>			<u>8,523</u>
<u>TOTAL WELLS</u>		1				8				9		
<u>TOTAL MCF</u>		638				333				971		
<u>TOTAL FEET</u>		1,505				11,366				12,871		
<u>PER CENT DRY - 66.6</u>												

CARROLL COUNTY

<u>Sand</u>	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>GAS WELLS</u>												
Cow Run	1	521		452					1	521		452
<u>DRY HOLES</u>												
Cow Run	2			992					2			992
Berea	5			6,576	4			5,163	9			11,739
<u>Totals</u>	<u>7</u>			<u>7,568</u>	<u>4</u>			<u>5,163</u>	<u>11</u>			<u>12,731</u>
<u>TOTAL WELLS</u>		8				4				12		
<u>TOTAL MCF</u>		521								521		
<u>TOTAL FEET</u>		8,020				5,163				13,183		
<u>PER CENT DRY - 91.7</u>												

COLUMBIANA COUNTY

<u>GAS WELLS</u>												
Berea	1	46		762					1	46		762
<u>DRY HOLES</u>												
Berea	2			1,770	3			2,285	5			4,055
Shale	1			1,267	1			1,214	2			2,481
<u>Totals</u>	<u>3</u>			<u>3,037</u>	<u>4</u>			<u>3,499</u>	<u>7</u>			<u>6,536</u>
<u>TOTAL WELLS</u>		4				4				8		
<u>TOTAL MCF</u>		46								46		
<u>TOTAL FEET</u>		3,799				3,499				7,298		
<u>PER CENT DRY - 87.5</u>												
<u>GAS STORAGE WELLS</u> - 5 Berea, TOTAL FEET: 4,101 2 Oriskany, TOTAL FEET: 7,174												
<u>WATER FLOOD WELLS</u> - 2 Inputs, TOTAL FEET: 1,523 1 Producer, TOTAL FEET: 761												

COSHOCTON COUNTY

<u>GAS WELLS</u>												
Clinton	1	320		3,405					1	320		3,405
<u>OIL WELLS</u>												
Berea	1		5	1,033					1		5	1,033
Clinton	28		1,648	92,979	27		1,117	89,192	55		2,765	182,171
<u>Totals</u>	<u>29</u>		<u>1,653</u>	<u>94,012</u>	<u>27</u>		<u>1,117</u>	<u>89,192</u>	<u>56</u>		<u>2,770</u>	<u>183,204</u>
<u>COMBINATION WELLS</u>												
Clinton	3	888	67	10,037	4	2,201	130	12,612	7	3,089	197	22,649
<u>DRY HOLES</u>												
Clinton	11			36,242	15			50,236	26			86,478

COSHOCTON COUNTY (continued)

<u>TOTAL WELLS</u>	44	46	90
<u>TOTAL MCF</u>	1,208	2,201	3,409
<u>TOTAL BBLs</u>	1,720	1,247	2,967
<u>TOTAL FEET</u>	143,696	152,040	295,736
<u>PER CENT DRY</u> - 29.2			

CUYAHOGA COUNTY

Sand	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet
<u>GAS WELLS</u>												
Newburg					1	681		3,184	1	681		3,184
<u>DRY HOLES</u>												
Oriskany					1			1,880	1			1,880
Clinton	$\frac{1}{1}$			3,135	$\frac{1}{1}$			1,880	$\frac{1}{2}$			3,135
Totals	$\frac{1}{1}$			3,135	$\frac{1}{1}$			1,880	$\frac{2}{2}$			5,015
<u>TOTAL WELLS</u>		1				2				3		
<u>TOTAL MCF</u>						681				681		
<u>TOTAL FEET</u>		3,135				5,064				8,199		
<u>PER CENT DRY</u> - 66.6												

DARKE COUNTY

<u>DRY HOLES</u>												
Trenton					2			2,381	2			2,381

FAIRFIELD COUNTY

<u>OIL WELLS</u>												
Newburg	2		105	3,939					2		105	3,939
<u>DRY HOLES</u>												
Clinton	2			4,704					2			4,704
<u>TOTAL WELLS</u>		4								4		
<u>TOTAL BBLs</u>		105								105		
<u>TOTAL FEET</u>		8,643								8,643		
<u>PER CENT DRY</u> - 50.0												

GEAUGA COUNTY

<u>DRY HOLES</u>												
Clinton	1			3,448	1			3,810	2			7,258

GUERNSEY COUNTY

<u>Sand</u>	<u>First Half</u>					<u>Last Half</u>					<u>Total</u>		
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	
<u>GAS WELLS</u>													
Berea	3	319		3,994	4	393		6,128	7	712		10,122	
<u>DRY HOLES</u>													
Cow Run	1			565	1			502	2			1,067	
Berea	2			2,364	1			1,315	3			3,679	
<u>Totals</u>	<u>3</u>			<u>2,929</u>	<u>2</u>			<u>1,817</u>	<u>5</u>			<u>4,746</u>	
<u>TOTAL WELLS</u>		6				6				12			
<u>TOTAL MCF</u>		319				393				712			
<u>TOTAL FEET</u>		6,923				7,945				14,868			
<u>PER CENT DRY</u>	- 41.7												

HANCOCK COUNTY

<u>OIL WELLS</u>												
Trenton	1		13	1,360					1		13	1,360
<u>DRY HOLES</u>												
Trenton	1			1,339	1			1,197	2			2,536
<u>TOTAL WELLS</u>		2				1				3		
<u>TOTAL BBLs</u>		13								13		
<u>TOTAL FEET</u>		2,699				1,197				3,896		
<u>PER CENT DRY</u>	- 66.6											

HARDIN COUNTY

<u>DRY HOLES</u>												
Trenton	1			1,270	1			1,481	2			2,751

HOCKING COUNTY

<u>GAS WELLS</u>												
Clinton	4	3,404		11,476					4	3,404		11,476
<u>OIL WELLS</u>												
Clinton	1		18	2,670	1	20		7,802	2		38	5,472
<u>DRY HOLES</u>												
Shale	1			1,799					1			1,799
Clinton	3			9,226	2			5,854	5			15,080
<u>Totals</u>	<u>4</u>			<u>11,025</u>	<u>2</u>			<u>5,854</u>	<u>6</u>			<u>16,879</u>
<u>TOTAL WELLS</u>		9				3				12		
<u>TOTAL MCF</u>		3,404								3,404		
<u>TOTAL BBLs</u>		18				20				38		
<u>TOTAL FEET</u>		25,171				8,656				33,827		
<u>PER CENT DRY</u>	- 50.0											
<u>GAS STORAGE WELLS</u>	- 43 Clinton,											<u>TOTAL FEET: 99,970</u>

HOLMES COUNTY

<u>Sand</u>	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>GAS WELLS</u>												
Berea	4	316		2,930	3	400		2,322	7	716		5,252
Newburg	1	579		2,498					1	579		2,498
Clinton	5	2,747		16,468	2	1,333		6,792	7	4,080		23,260
<u>Totals</u>	<u>10</u>	<u>3,642</u>		<u>21,896</u>	<u>5</u>	<u>1,733</u>		<u>9,114</u>	<u>15</u>	<u>5,375</u>		<u>31,010</u>
<u>OIL WELLS</u>												
Berea	7		40	5,769	2		29	1,426	9		69	7,195
Clinton	1		16	3,462	3		54	9,844	4		70	13,306
<u>Totals</u>	<u>8</u>		<u>56</u>	<u>9,231</u>	<u>5</u>		<u>83</u>	<u>11,270</u>	<u>13</u>		<u>139</u>	<u>20,501</u>
<u>COMBINATION WELLS</u>												
Berea	6	638	185	4,128	2	119	27	1,363	8	757	212	5,491
Clinton	4	512	66	12,856	3	808	106	10,185	7	1,320	172	23,041
<u>Totals</u>	<u>10</u>	<u>1,150</u>	<u>251</u>	<u>16,984</u>	<u>5</u>	<u>927</u>	<u>133</u>	<u>11,548</u>	<u>15</u>	<u>2,077</u>	<u>384</u>	<u>28,532</u>
<u>DRY HOLES</u>												
Berea	6			4,394	7			5,547	13			9,941
Clinton	5			16,139	6			19,609	11			35,748
<u>Totals</u>	<u>11</u>			<u>20,533</u>	<u>13</u>			<u>25,156</u>	<u>24</u>			<u>45,689</u>
<u>TOTAL WELLS</u>		39				28				67		
<u>TOTAL MCF</u>		4,792				2,660				7,452		
<u>TOTAL BBLs</u>		307				216				523		
<u>TOTAL FEET</u>		68,644				57,088				125,732		
<u>PER CENT DRY</u>	- 35.8											

HURON COUNTY

<u>DRY HOLES</u>												
Oriskany	1			855	1			930	2			1,785

JACKSON COUNTY

<u>DRY HOLES</u>												
Berea	1			716					1			716

JEFFERSON COUNTY

<u>GAS WELLS</u>												
Salt Sand	1	500		774	2	67		997	3	567		1,771
Injun					1	380		906	1	380		906
<u>Totals</u>	<u>1</u>	<u>500</u>		<u>774</u>	<u>3</u>	<u>447</u>		<u>1,903</u>	<u>4</u>	<u>947</u>		<u>2,677</u>

<u>OIL WELLS</u>												
Berea	1		5	1,454	1		3	1,110	2		8	2,564

<u>DRY HOLES</u>												
Salt Sand	5			3,411	5			3,876	10			7,287
Berea	1			1,478	3			4,406	4			5,884
Clinton					1			6,860	1			6,860
<u>Totals</u>	<u>6</u>			<u>4,889</u>	<u>9</u>			<u>15,142</u>	<u>15</u>			<u>20,031</u>

LICKING COUNTY

<u>Sand</u>	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>GAS WELLS</u>												
Clinton	2	1,536		5,993	2	788		5,959	4	2,324		11,952
<u>OIL WELLS</u>												
Berea	8		27	6,108	3		12	2,245	11		39	8,353
Clinton	8		357	25,104	8		521	24,432	16		878	49,536
<u>Totals</u>	<u>16</u>		<u>384</u>	<u>31,212</u>	<u>11</u>		<u>533</u>	<u>26,677</u>	<u>27</u>		<u>917</u>	<u>57,889</u>
<u>COMBINATION WELLS</u>												
Clinton	7	2,189	354	19,991	7	2,831	488	19,611	14	5,020	842	39,602
<u>DRY HOLES</u>												
Berea					2			1,323	2			1,323
Clinton	10			30,106	8			24,155	18			54,261
<u>Totals</u>	<u>10</u>			<u>30,106</u>	<u>10</u>			<u>25,478</u>	<u>20</u>			<u>55,584</u>
<u>TOTAL WELLS</u>		35				30				65		
<u>TOTAL MCF</u>		3,725				3,619				7,344		
<u>TOTAL BBLs</u>		738				1,021				1,759		
<u>TOTAL FEET</u>		87,302				77,725				165,027		
<u>PER CENT DRY</u>	-	30.8										

LOGAN COUNTY

<u>DRY HOLES</u>												
Trenton	1			1,402					1			1,402
St. Peter					1			2,292	1			2,292
<u>Totals</u>	<u>1</u>			<u>1,402</u>	<u>1</u>			<u>2,292</u>	<u>2</u>			<u>3,694</u>

LORAIN COUNTY

<u>GAS WELLS</u>												
Berea					1	125		286	1	125		286
Clinton	4	6,075		9,821	7	15,981		17,093	11	21,931		26,914
<u>Totals</u>	<u>4</u>	<u>6,075</u>		<u>9,821</u>	<u>8</u>	<u>15,981</u>		<u>17,379</u>	<u>12</u>	<u>22,056</u>		<u>27,200</u>
<u>DRY HOLES</u>												
Clinton	1			2,547	3			7,755	4			10,302
<u>TOTAL WELLS</u>		5				11				16		
<u>TOTAL MCF</u>		6,075				15,981				22,056		
<u>TOTAL FEET</u>		12,368				25,134				37,502		
<u>PER CENT DRY</u>	-	22.2										

MAHONING COUNTY

<u>OIL WELLS</u>												
Berea	1		2	677	1		2	682	2		4	1,359

MAHONING COUNTY (continued)

	<u>First Half</u>					<u>Last Half</u>					<u>Total</u>		
	<u>Sand</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>DRY HOLES</u>													
Berea	3				1,815	1			650	4			2,465
Oriskany	$\frac{1}{4}$				3,524					$\frac{1}{5}$			3,524
<u>Totals</u>	$\frac{4}{4}$				5,339	$\frac{1}{1}$			650	$\frac{5}{5}$			5,989
<u>TOTAL WELLS</u>			5					2					7
<u>TOTAL BBLs</u>			2					2					4
<u>TOTAL FEET</u>			6,016					1,332					7,348
<u>PER CENT DRY</u>	-	71.4											

MEDINA COUNTY

<u>GAS WELLS</u>													
Berea	3	225			1,404	1	25		420	4	250		1,824
Clinton	3	1,225			10,235	2	1,105		6,692	5	2,330		16,927
<u>Totals</u>	$\frac{6}{6}$	1,450			11,639	$\frac{3}{3}$	1,130		7,112	$\frac{9}{9}$	2,580		18,751
<u>OIL WELLS</u>													
Berea						2	20		922	2		20	922
<u>DRY HOLES</u>													
Berea	5				2,655	1			421	6			3,076
Clinton	$\frac{13}{18}$				40,832	$\frac{3}{4}$			10,513	$\frac{16}{22}$			51,345
<u>Totals</u>	$\frac{18}{18}$				43,487	$\frac{4}{4}$			10,934	$\frac{22}{22}$			54,421
<u>TOTAL WELLS</u>			24					9					33
<u>TOTAL MCF</u>		1,450						1,130					2,580
<u>TOTAL BBLs</u>								20					20
<u>TOTAL FEET</u>			55,126					18,968					74,094
<u>PER CENT DRY</u>	-	66.6											
<u>DRILLED DEEPER</u> - 1 Oriskany to Clinton, 103 MCF, TOTAL FEET: 1,433													
<u>WATER FLOOD WELLS</u> - 3 Inputs, TOTAL FEET: 1,559													
6 Producers, TOTAL FEET: 3,085													

MEIGS COUNTY

<u>GAS WELLS</u>													
Cow Run	3	343			1,768	2	560		849	5	903		2,617
Berea	1	662			1,946	1	163		1,879	2	825		3,825
Oriskany	$\frac{1}{5}$	200			4,242					$\frac{1}{8}$	200		4,242
<u>Totals</u>	$\frac{5}{5}$	1,205			7,956	$\frac{3}{3}$	723		2,728	$\frac{8}{8}$	1,928		10,684
<u>OIL WELLS</u>													
Cow Run	1		2	236						1		2	236
Berea	4		58	7,136	3	16	5,278	7	74	7	12,414		12,414
<u>Totals</u>	$\frac{5}{5}$		60	7,372	$\frac{3}{3}$	16	5,278	$\frac{8}{8}$	74	$\frac{8}{8}$	12,650		12,650
<u>COMBINATION WELLS</u>													
Berea						1	130	2	1,988	1	130	2	1,988

MEIGS COUNTY (continued)

Sand	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet
<u>DRY HOLES</u>												
Cow Run					3			713	3			713
Stray	2			1,610					2			1,610
Berea	1			1,788	1			1,690	2			3,478
Oriskany					1			3,942	1			3,942
<u>Totals</u>	<u>3</u>			<u>3,398</u>	<u>5</u>			<u>6,345</u>	<u>8</u>			<u>9,743</u>
<u>TOTAL WELLS</u>		13				12				25		
<u>TOTAL MCF</u>		1,205				853				2,058		
<u>TOTAL BBLs</u>		60				18				78		
<u>TOTAL FEET</u>		18,726				16,339				35,065		
<u>PER CENT DRY</u>	-	32.0										
<u>DRILLED DEEPER</u> - 2 Berea to Shale, Dry, TOTAL FEET: 3,090												

MERCER COUNTY

<u>OIL WELLS</u>												
Trenton	6		58	6,952	5		21	5,886	11		79	12,838
<u>DRY HOLES</u>												
Trenton	1			1,195	1			1,196	2			2,391
<u>TOTAL WELLS</u>		7				6				13		
<u>TOTAL BBLs</u>		58				21				79		
<u>TOTAL FEET</u>		8,147				7,082				15,229		
<u>PER CENT DRY</u>	-	16.6										

MONROE COUNTY

<u>GAS WELLS</u>												
Cow Run					1	56		1,307	1	56		1,307
Salt Sand	2	725		2,270	1	101		742	3	826		3,012
Injun	1	200		1,302					1	200		1,302
Berea	6	234		10,946	6	354		10,992	12	588		21,938
<u>Totals</u>	<u>9</u>	<u>1,159</u>		<u>14,518</u>	<u>8</u>	<u>511</u>		<u>13,041</u>	<u>17</u>	<u>1,670</u>		<u>27,559</u>
<u>OIL WELLS</u>												
Cow Run	2		4	1,753					2		4	1,753
Keener	1		5	1,580					1		5	1,580
Injun	2		4	3,295	3	13		4,883	5		17	8,178
Berea					1	4		2,167	1		4	2,167
<u>Totals</u>	<u>5</u>		<u>13</u>	<u>6,628</u>	<u>4</u>	<u>17</u>		<u>7,050</u>	<u>9</u>		<u>30</u>	<u>13,678</u>
<u>COMBINATION WELLS</u>												
Salt Sand	1	77	3	885	1	300	10	860	2	377	13	1,745
Keener	1	75	7	1,550					1	75	7	1,550
<u>Totals</u>	<u>2</u>	<u>152</u>	<u>10</u>	<u>2,435</u>	<u>1</u>	<u>300</u>	<u>10</u>	<u>860</u>	<u>3</u>	<u>452</u>	<u>20</u>	<u>3,295</u>

MONROE COUNTY (continued)

<u>Sand</u>	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>DRY HOLES</u>												
Cow Run	1			920	2			1,661	3			2,581
Germantown					1			1,143	1			1,143
Maxton					1			1,330	1			1,330
Injun	3			4,719	3			4,992	6			9,711
Squaw	2			2,835	1			1,484	3			4,319
Berea	$\frac{1}{7}$			<u>2,205</u>	$\frac{4}{12}$			<u>7,070</u>	$\frac{5}{19}$			<u>9,275</u>
<u>Totals</u>				10,679				17,680				28,359
<u>TOTAL WELLS</u>		23				25				48		
<u>TOTAL MCF</u>		1,311				811				2,122		
<u>TOTAL BBLs</u>		23				27				50		
<u>TOTAL FEET</u>		34,260				38,631				72,891		
<u>PER CENT DRY</u>	- 39.6											

DRILLED DEEPER - 1 Salt Sand to Berea 58 MCF, TOTAL FEET: 604
 1 Lime Sand to Squaw, 2 bbl, TOTAL FEET: 284
 1 Keener to Berea, 4 bbl, TOTAL FEET: 540
 1 Injun to Berea, 8 bbl, TOTAL FEET: 637
 1 Injun to Berea, Dry, TOTAL FEET: 531

MONTGOMERY COUNTY

<u>DRY HOLES</u>												
Trenton	1			1,175					1			1,175

MORGAN COUNTY

<u>GAS WELLS</u>												
Cow Run	1	20		802	2	758		1,054	3	778		1,856

<u>OIL WELLS</u>												
Peeker	3		5	1,475					3		5	1,475
Cow Run					$\frac{7}{7}$	$\frac{33}{33}$	$\frac{2,916}{2,916}$		$\frac{7}{10}$		$\frac{33}{38}$	$\frac{2,916}{4,391}$
<u>Totals</u>	$\frac{3}{3}$		$\frac{5}{5}$	<u>1,475</u>	$\frac{7}{7}$	$\frac{33}{33}$	<u>2,916</u>	$\frac{10}{10}$			$\frac{38}{38}$	<u>4,391</u>

<u>DRY HOLES</u>												
Peeker	1			130					1			130
Cow Run	2			1,462	4			1,877	6			3,339
Berea	1			1,329					1			1,329
Medina	$\frac{1}{5}$			<u>4,330</u>	$\frac{2}{6}$		<u>10,282</u>		$\frac{3}{11}$			<u>14,612</u>
<u>Totals</u>				7,251			12,159		11			19,410

<u>TOTAL WELLS</u>		9				15				24		
<u>TOTAL MCF</u>		20				758				778		
<u>TOTAL BBLs</u>		5				33				38		
<u>TOTAL FEET</u>		9,528				16,129				25,657		
<u>PER CENT DRY</u>	- 45.8											

DRILLED DEEPER - 1 Macksburg to Maxton, 80 MCF, TOTAL FEET: 116
AIR REPRESSURING - Cow Run 1 Input, TOTAL FEET: 282
 2 Oil Wells, TOTAL FEET: 415

MUSKINGUM COUNTY

<u>Sand</u>	<u>Wells</u>	<u>First Half</u>			<u>Last Half</u>			<u>Total</u>				
		<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>GAS WELLS</u>												
Clinton	7	4,978		24,823	7	12,520		23,974	14	17,498		48,797
<u>OIL WELLS</u>												
Berea	2		6	2,464					2		6	2,464
Clinton					<u>1</u>		<u>14</u>	<u>4,303</u>	<u>1</u>		<u>14</u>	<u>4,303</u>
<u>Totals</u>	<u>2</u>		<u>6</u>	<u>2,464</u>	<u>1</u>		<u>14</u>	<u>4,303</u>	<u>3</u>		<u>20</u>	<u>6,767</u>
<u>COMBINATION WELLS</u>												
Clinton	1	1,362	2	3,575					1	1,362	2	3,575
<u>DRY HOLES</u>												
Cow Run	2			168					2			168
Oriskany					1		3,070		1			3,070
Clinton	4			13,549	1		3,615		5			17,164
Medina	<u>1</u>			<u>4,438</u>	<u>4</u>		<u>14,952</u>		<u>5</u>			<u>19,390</u>
<u>Totals</u>	<u>7</u>			<u>18,155</u>	<u>6</u>		<u>21,637</u>		<u>13</u>			<u>39,792</u>
<u>TOTAL WELLS</u>		17				14				31		
<u>TOTAL MCF</u>		6,340				12,520				18,860		
<u>TOTAL BBLs</u>		8				14				22		
<u>TOTAL FEET</u>		49,017				49,914				98,931		
<u>PER CENT DRY</u> -	41.9											
<u>DRILLED DEEPER</u> -	1 Clinton to Medina, 5 bbl, TOTAL FEET: 182											

NOBLE COUNTY

<u>GAS WELLS</u>												
Keener	1	65		973					1	65		973
Berea	<u>1</u>	<u>76</u>		<u>1,340</u>					<u>1</u>	<u>76</u>		<u>1,340</u>
<u>Totals</u>	<u>2</u>	<u>141</u>		<u>2,313</u>					<u>2</u>	<u>141</u>		<u>2,313</u>
<u>OIL WELLS</u>												
Macksburg					4		27	3,835	4		27	3,835
Salt Sand	1		3	764					1		3	764
Germantown	4		26	4,350	1		4	1,148	5		30	5,498
Maxton	<u>3</u>		<u>23</u>	<u>3,202</u>					<u>3</u>		<u>23</u>	<u>3,202</u>
<u>Totals</u>	<u>8</u>		<u>52</u>	<u>8,316</u>	<u>5</u>		<u>31</u>	<u>4,983</u>	<u>13</u>		<u>83</u>	<u>13,299</u>
<u>DRY HOLES</u>												
Buell	1			544	2			398	3			942
Cow Run	1			404					1			404
Macksburg	1			911	2			1,951	3			2,862
Germantown	3			3,551	3			3,736	6			7,287
Maxton	1			1,073					1			1,073
Keener					1			971	1			971
Injun					1			905	1			905
Squaw					1			1,501	1			1,501
Berea	<u>1</u>			<u>1,702</u>	<u>3</u>			<u>4,934</u>	<u>4</u>			<u>6,636</u>
<u>Totals</u>	<u>8</u>			<u>8,185</u>	<u>13</u>			<u>14,396</u>	<u>21</u>			<u>22,581</u>

NOBLE COUNTY (continued)

<u>TOTAL WELLS</u>	18	18	36
<u>TOTAL MCF</u>	141		141
<u>TOTAL BBLs</u>	52	31	83
<u>TOTAL FEET</u>	18,814	19,379	38,193
<u>PER CENT DRY</u>	- 57.7		

PERRY COUNTY

Sand	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet
<u>GAS WELLS</u>												
Berea					2	108		2,043	2	108		2,043
Clinton	3	3,604		10,329	1	1,600		3,722	4	5,204		14,051
Medina					2	314		7,686	2	314		7,686
<u>Totals</u>	<u>3</u>	<u>3,604</u>		<u>10,329</u>	<u>5</u>	<u>2,022</u>		<u>13,451</u>	<u>8</u>	<u>5,626</u>		<u>23,780</u>
<u>OIL WELLS</u>												
Berea	2		4	2,068	6		12	6,793	8		16	8,861
Clinton	5		173	14,867	6		244	18,634	11		417	33,501
<u>Totals</u>	<u>7</u>		<u>177</u>	<u>16,935</u>	<u>12</u>		<u>256</u>	<u>25,427</u>	<u>19</u>		<u>433</u>	<u>42,362</u>
<u>COMBINATION WELLS</u>												
Clinton	1	1,056	60	3,045	2	1,036	35	6,056	3	2,092	95	9,101
<u>DRY HOLES</u>												
Berea					1			1,128	1			1,128
Clinton	7			20,685	7			22,363	14			43,048
Medina	4			14,324	3			11,208	7			25,532
<u>Totals</u>	<u>11</u>			<u>35,009</u>	<u>11</u>			<u>34,699</u>	<u>22</u>			<u>69,708</u>
<u>TOTAL WELLS</u>		22				30				52		
<u>TOTAL MCF</u>		4,660				3,058				7,718		
<u>TOTAL BBLs</u>		237				291				528		
<u>TOTAL FEET</u>		65,318				79,633				144,951		
<u>PER CENT DRY</u>	- 43.1											
<u>DRILLED DEEPER</u>	- 1 Clinton to Medina, Dry, TOTAL FEET: 115											

PORTAGE COUNTY

<u>GAS WELLS</u>												
Clinton	1	125		4,201					1	125		4,201
<u>DRY HOLES</u>												
Clinton	2			8,587	1			4,317	3			12,904
<u>TOTAL WELLS</u>		3				1				4		
<u>TOTAL MCF</u>		125								125		
<u>TOTAL FEET</u>		12,788				4,317				17,105		
<u>PER CENT DRY</u>	- 75.0											

PREBLE COUNTY

<u>Sand</u>	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>DRY HOLES</u>												
Clinton					1			1,102	1			1,102

PUTNAM COUNTY

<u>OIL WELLS</u>												
Trenton					2		40	2,793	2		40	2,793
<u>DRY HOLES</u>												
Trenton					1			1,368	1			1,368
<u>TOTAL WELLS</u>												3
<u>TOTAL BBLs</u>												40
<u>TOTAL FEET</u>												4,161
<u>PER CENT DRY</u> -												33.3

RICHLAND COUNTY

<u>GAS WELLS</u>												
Clinton	1	100		2,580					1	100		2,580
<u>DRY HOLES</u>												
Clinton	1			2,602	1			2,700	2			5,302
<u>TOTAL WELLS</u>			2				1					3
<u>TOTAL MCF</u>			100								100	
<u>TOTAL FEET</u>			5,182				2,700				7,882	
<u>PER CENT DRY</u> -												66.6
<u>GAS STORAGE WELLS</u> -												1 Clinton, TOTAL FEET: 2,757

SANDUSKY COUNTY

<u>DRY HOLES</u>												
Trenton					1			1,490	1			1,490

SENECA COUNTY

<u>OIL WELLS</u>												
Trenton					1		15	1,495	1		15	1,495
<u>DRY HOLES</u>												
Trenton					1			1,459	1			1,459
St. Peter					$\frac{1}{2}$			$\frac{2,585}{2}$	$\frac{1}{2}$			$\frac{2,585}{2}$
<u>Totals</u>					$\frac{2}{2}$			$\frac{4,044}{2}$	$\frac{2}{2}$			$\frac{4,044}{2}$

SENECA COUNTY (continued)

<u>TOTAL WELLS</u>		3	3
<u>TOTAL BBLs</u>		15	15
<u>TOTAL FEET</u>		5,539	5,539
<u>PER CENT DRY</u>	- 66.6		

STARK COUNTY

Sand	<u>First Half</u>				<u>Last Half</u>				<u>Total</u>			
	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet	Wells	MCF	Bbls	Feet
<u>GAS WELLS</u>												
Clinton	4	2,277		18,449	5	1,056		23,496	9	3,333		41,945
<u>DRY HOLES</u>												
Berea	1			709					1			709
Clinton	1			4,682	2			9,424	3			14,106
<u>Totals</u>	<u>2</u>			<u>5,391</u>	<u>2</u>			<u>9,424</u>	<u>4</u>			<u>14,815</u>
<u>TOTAL WELLS</u> 6												
<u>TOTAL MCF</u> 2,277												
<u>TOTAL FEET</u> 23,840												
<u>PER CENT DRY</u> - 30.8												

SUMMIT COUNTY

<u>GAS WELLS</u>												
Oriskany					1	426		2,267	1	426		2,267
Clinton	1	125		3,694					1	125		3,694
<u>Totals</u>	<u>1</u>	<u>125</u>		<u>3,694</u>	<u>1</u>	<u>426</u>		<u>2,267</u>	<u>2</u>	<u>551</u>		<u>5,961</u>
<u>OIL WELLS</u>												
Oriskany	1		15	2,094					1		15	2,094
<u>DRY HOLES</u>												
Oriskany	2			4,060	1			2,181	3			6,241
Clinton	4			14,970	4			15,405	8			30,375
<u>Totals</u>	<u>6</u>			<u>19,030</u>	<u>5</u>			<u>17,586</u>	<u>11</u>			<u>36,616</u>
<u>TOTAL WELLS</u> 8												
<u>TOTAL MCF</u> 125												
<u>TOTAL BBLs</u> 15												
<u>TOTAL FEET</u> 24,818												
<u>PER CENT DRY</u> - 78.6												

TUSCARAWAS COUNTY

<u>GAS WELLS</u>												
Cow Run					2	519		778	2	519		778
Berea	9	5,153		9,063	7	4,397		7,271	16	9,550		16,334
Clinton	6	3,641		29,074	6	3,443		29,044	12	7,084		58,118
<u>Totals</u>	<u>15</u>	<u>8,794</u>		<u>38,137</u>	<u>15</u>	<u>8,359</u>		<u>37,093</u>	<u>30</u>	<u>17,153</u>		<u>75,230</u>

TUSCARAWAS COUNTY (continued)

	<u>First Half</u>					<u>Last Half</u>					<u>Total</u>		
	<u>Sand</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>DRY HOLES</u>													
Berea	6				6,881	5			5,355	11			12,236
Clinton	1				4,979	2			10,035	3			15,014
<u>Totals</u>	<u>7</u>				<u>11,860</u>	<u>7</u>			<u>15,390</u>	<u>14</u>			<u>27,250</u>
<u>TOTAL WELLS</u>		22					22				44		
<u>TOTAL MCF</u>			8,794					8,359			17,153		
<u>TOTAL FEET</u>			49,997					52,483			102,480		
<u>PER CENT DRY</u>	- 31.8												

VINTON COUNTY

<u>OIL WELLS</u>													
Berea	1			2	860					1		2	860
<u>DRY HOLES</u>													
Medina						2			6,110	2			6,110
<u>TOTAL WELLS</u>		1					2				3		
<u>TOTAL BBLs</u>			2								2		
<u>TOTAL FEET</u>			860				6,110				6,970		
<u>PER CENT DRY</u>	- 66.6												

WASHINGTON COUNTY

<u>GAS WELLS</u>													
Germantown						2	208		2,197	2	208		2,197
Keener	1	500			1,475					1	500		1,475
Injun	2	180			3,195	2	825		2,903	4	1,005		6,098
Berea	6	662			11,744	7	954		13,134	13	1,616		24,878
Shale						1	264		2,549	1	264		2,549
Oriskany	4	12,272			16,821	4	11,650		16,313	8	23,922		33,134
<u>Totals</u>	<u>13</u>	<u>13,614</u>			<u>33,235</u>	<u>16</u>	<u>13,901</u>		<u>37,096</u>	<u>29</u>	<u>27,515</u>		<u>70,331</u>
<u>OIL WELLS</u>													
Goose Run	1		2		178	1		1	176	2		3	354
Horseneck	2		12		1,128					2		12	1,128
Vincent						1		2	670	1		2	670
Buell	2		3		1,021	2		3	1,477	4		6	2,498
Peeker	7		55		5,229	8		48	6,099	15		103	11,328
Cow Run	2		11		1,366	8		16	3,604	10		27	4,970
Germantown	1		2		950	2		11	1,945	3		13	2,895
Keener	1		1		1,802					1		1	1,802
Injun	1		1		1,575					1		1	1,575
Squaw						1		5	1,495	1		5	1,495
Berea	1		8		1,439					1		8	1,439
<u>Totals</u>	<u>18</u>		<u>95</u>		<u>14,688</u>	<u>23</u>		<u>86</u>	<u>15,466</u>	<u>41</u>		<u>181</u>	<u>30,154</u>
<u>COMBINATION WELLS</u>													
Lime						1	518	183	1,206	1	518	183	1,206
Injun	2	175	30		3,052	1	120	4	1,570	3	295	34	4,622
<u>Totals</u>	<u>2</u>	<u>175</u>	<u>30</u>		<u>3,052</u>	<u>2</u>	<u>638</u>	<u>187</u>	<u>2,776</u>	<u>4</u>	<u>813</u>	<u>217</u>	<u>5,828</u>

WOOD COUNTY

<u>Sand</u>	<u>Wells</u>	<u>First Half</u>			<u>Last Half</u>			<u>Total</u>				
		<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>	<u>Wells</u>	<u>MCF</u>	<u>Bbls</u>	<u>Feet</u>
<u>OIL WELLS</u>												
Trenton	1		8	1,325	1		20	1,400	2		28	2,725
<u>DRY HOLES</u>												
Trenton	1			1,330					1			1,330
<u>TOTAL WELLS</u>			2			1				3		
<u>TOTAL BBLs</u>			8			20				28		
<u>TOTAL FEET</u>			2,655			1,400				4,055		
<u>PER CENT DRY</u>	-	33.3										

WYANDOT COUNTY

<u>GAS WELLS</u>												
Trenton					2	800		1,412	2	800		1,412
<u>OIL WELLS</u>												
Trenton	1		6	1,470	2		85	2,804	3		91	4,274
<u>DRY HOLES</u>												
Trenton	5			7,602	2			3,105	7			10,707
<u>TOTAL WELLS</u>		6				6				12		
<u>TOTAL MCF</u>						800				800		
<u>TOTAL BBLs</u>		6				85				91		
<u>TOTAL FEET</u>		9,072				7,321				16,393		
<u>PER CENT DRY</u>	-	58.3										

<u>TOTAL WELLS</u>		570				570				1,140		
<u>TOTAL MCF</u>		73,175				77,919				151,094		
<u>TOTAL BBLs</u>		6,590				7,293				13,883		
<u>TOTAL FEET</u>	1,122,418					1,153,404				2,275,822		



WELL DRILLING AND ABANDONMENT PERMITS
ISSUED BY DIVISION OF MINES - 1952

County	Permits Issued	New Wells Plugged	Old Wells Plugged	Total No. Wells Plugged	No. Wells Mudded*
Allen	5	2	38	40	--
Ashland	207	63	32	95	61
Ashtabula	1	--	--	--	--
Athens	22	6	32	38	3
Auglaize	--	1	--	1	--
Belmont	8	6	21	27	1
Carroll	14	11	9	20	--
Columbiana	18	7	9	16	--
Coshocton	92	26	6	32	24
Cuyahoga	5	2	22	24	--
Darke	3	2	--	2	--
Defiance	1	--	--	--	--
Fairfield	3	2	22	24	7
Fulton	1	--	--	--	--
Gallia	--	2	13	15	--
Geauga	2	1	1	1	--
Guernsey	13	5	11	16	3
Hancock	6	2	42	44	3
Hardin	2	2	5	7	--
Harrison	--	--	20	20	--
Henry	--	--	1	1	--
Hocking	60	6	34	40	40
Holmes	73	24	16	40	3
Huron	2	2	--	2	--
Jackson	2	1	5	6	--
Jefferson	24	15	57	72	--
Knox	133	28	25	53	26
Lawrence	19	2	14	16	--
Lake	1	--	2	2	--
Licking	71	20	40	60	25
Logan	3	2	--	2	--
Lorain	19	4	13	17	--
Lucas	--	--	2	2	--
Mahoning	5	5	20	25	--
Medina	30	22	57	79	2
Meigs	21	10	30	40	7
Mercer	17	2	13	15	--
Monroe	59	20	109	129	8
Montgomery	1	1	7	8	--
Morgan	24	11	62	73	9
Muskingum	36	13	46	59	19
Noble	41	21	43	64	7
Ottawa	--	--	5	5	--
Perry	49	23	61	84	17
Portage	3	3	--	3	--
Preble	1	1	--	1	--
Putnam	3	1	--	1	--
Richland	3	2	--	2	--
Sandusky	2	1	38	39	--
Scioto	3	--	--	--	--
Seneca	5	2	21	23	--
Shelby	1	--	--	--	--
Stark	13	4	38	42	11
Summit	15	11	1	12	2
Trumbull	--	--	4	4	--
Tuscarawas	42	14	19	33	12
Van Wert	--	--	14	14	--
Vinton	4	2	2	2	--
Washington	112	43	238	281	6
Wayne	16	12	28	40	5
Wood	9	1	41	42	2
Wyandotte	21	7	1	8	--
Williams	8	4	--	4	--
Water Flood area, Medina & Lorain Co.			48 oil wells		
" " " " " "			22 input water wells		
Totals	1,354	480	1,464	1,874	303

* Annular space filled with mud. Practice permissible to conserve casing.

PART II

**ANNUAL DRILLING AND PRODUCTIONS STATISTICS
1940 - 1952**

**OIL AND GAS WELLS DRILLED IN OHIO
1888 - 1952**

**WELL DRILLING AND ABANDONMENT PERMITS
ISSUED BY DIVISION OF MINES
1913 - 1952**

WELL CUTTINGS RECEIVED DURING 1952

NATURAL GAS PRODUCED AND CONSUMED IN OHIO 1885 - 1950

From U. S. Bureau of Mines

Year	Number of Producing Wells	Gas ¹ Produced (million cu. ft.)	Average Price at Wells (cents per MCF)	Value at Wells (thousand dollars)	Number of Consumers (domestic & commercial)	Gas ² Consumer (million cu. ft.)	Average ³ Price at Point of Consumption (cents per MCF)	Value at ⁴ Point of Consumption	Gas Imported (million cu. ft.)
1885				\$ 100					
86				400					
87				1,000					
88				1,500					
89	83			5,216					
1890	99			4,684					
91	110			3,076					
92	304			2,136					
93	207			1,510					
94				1,276					
95				1,256					
96				1,172					
97	729			1,172				\$ 1,506	
98	806			1,488	85,551			2,251	
99	929			1,866	68,560			3,207	
1900	900			2,178	78,478			3,823	
01	1,099			2,147	136,835			4,119	
02	1,343			2,355	150,658			4,786	
03	1,523			4,479	120,913			7,201	
04	1,661			5,316	199,496			9,394	
05	1,705			5,721	233,693			10,397	
06	1,977			7,146	277,540			12,653	
07	2,942			8,719	313,491			15,228	
08	3,691			8,245	385,965			15,166	
09	4,260			9,967	430,897			18,884	
1910	4,717			8,627	456,233			21,211	
11	4,999			9,367	479,309			22,792	
12	5,163			11,891	580,897			27,196	
13	5,308			10,417	646,138			27,056	
14	5,809		21.4	14,668	690,966			29,937	
15	6,064		21.8	17,391	740,456		21.6	31,901	
16	6,053			15,601	779,169			37,394	
17	5,979			18,435	841,430			44,743	
18	6,168			24,235	876,816			43,654	
19	63,153			20,389	889,886			41,006	
		320,000 ^a			894,996				
		45,436							29,377
		52,041							30,931
		47,442							32,465
		53,223							44,644
		48,232							59,843
		49,450							62,672
		56,210							70,644
		50,612							77,852
		68,270							70,407
		79,510							68,186
		69,888							100,257
		68,917							96,865
		61,261							82,324
		63,153							63,541

Continued from page 35.

Year	Number of Producing Wells	Gas ¹ Produced (million cu. ft.)	Average Price at Wells (cents per MCF)	Value at Wells (thousand dollars)	Number of Consumers (domestic & commercial)	Gas ² Consumer (million cu. ft.)	Average ³ Price at Point of Consumption (cents per MCF)	Value at ⁴ Point of Consumption	Gas Imported (million cu. ft.)
1920		58,938		\$ 21,587	941,351	136,872	36.8	\$ 50,374	77,934
21		47,412		19,216	961,980	106,051	40.8	43,221	61,795
22		51,481	18.0	9,267	987,625	116,127	47.0	55,062	68,200
23		53,812	15.6	8,395	1,023,730	120,920	50.8	58,468	70,770
24		47,396	17.6	8,351	1,065,860	111,353	51.1	57,550	66,642
25		43,235	17.9	7,752	1,094,120	111,969	51.8	58,635	70,522
26		47,363	18.5	8,781	1,124,080	115,719	53.6	65,982	74,426
27		51,381	16.8	8,632	1,149,760	112,603	57.1	64,258	63,672
28		56,341	18.0	10,125	1,192,500	122,484	57.4	70,255	68,230
29		57,936	16.6	9,640	1,214,170	126,631	57.2	72,381	71,047
1930	6,500	63,394	17.1	10,859	1,239,300	125,816	57.7	72,545	64,169
31	6,849	56,326	17.1	9,654	1,198,330	107,460	57.2	61,418	45,656
32	6,754	51,466	16.9	8,698	1,157,030	94,414	55.7	52,595	40,482
33	6,749	47,929	17.1	8,215	1,161,580	92,762	52.5	48,686	46,015
34	6,610	50,330	16.7	8,400	1,192,650	94,598	51.5	48,923	45,728
35	6,570	49,592	16.5	8,158	1,216,230	105,896	49.1	51,565	45,147
36	6,400	46,994	16.3	7,637	1,249,000	121,381	47.6	57,827	57,601
37	6,350	42,783	16.0	6,854	1,268,100	125,133	46.8	58,574	75,601
38	6,340	35,257	16.8	5,916	1,272,600	108,013	49.5	53,860	82,695
39	6,200	36,469	16.7	6,094	1,303,870	114,720	51.7	59,287	72,502
1940	6,270	40,639	16.7	6,803	1,335,910	129,856	51.4	66,707	78,364
41	6,300	41,858	16.3	6,835	1,372,630	136,251	51.4	65,175	85,325
42	6,700	45,055	16.4	7,394	1,397,150	144,325	50.8	76,085	54,453
43	6,750	52,001	16.5	8,559	1,411,610	162,371	52.7	85,223	55,353
44	6,900	51,724	17.7	9,171	1,432,940	166,785	52.5	87,003	110,513
45	6,950	49,967	17.8	8,899	1,452,060	172,258	52.2	91,039	115,858
46	7,000	61,570	18.3	11,280	1,486,950	188,527	52.9	98,368	123,970
47	7,200	68,946 ^b	19.7	13,548	1,670,680	221,571	52.2	117,222	127,729
48	7,190	65,619	19.7	12,501	1,749,760	236,137	52.9	126,210	163,410
49	7,000	46,512	19.3	8,551	1,641,245	246,212	53.4	132,281	201,052
50	6,700	43,163	19.4	8,374	1,644,145	324,594	53.7	171,202	230,317
	6,800						52.7		307,898
TOTALS		2,696,084		\$530,132		6,101,681		\$2,717,984	3,866,133

¹Gas produced and marketed.³Includes Industrial.²Includes Industrial.⁴Includes Industrial.^aAccumulative 1885-1905 produced and delivered to consumers;^bEstimated by Mr. K. C. Cottingham, Ohio Fuel Gas Company. Includes gas stored and lost in transmission; years 1947 through 1950.

NUMBER AND PERCENTAGE OF WELL COMPLETIONS
1940-1952

YEAR	OIL		GAS		COMBINATION*		DRY		TOTAL
	Number	Per Cent	Number	Per Cent	Number	Per Cent	Number	Per Cent	
1940	327	26.63	491	39.98			410	33.39	1,228
1941	333	21.33	701	44.91			527	33.76	1,561
1942	181	17.96	471	46.72			356	35.32	1,008
1943	170	16.73	455	44.78			391	38.49	1,016
1944	169	16.25	478	45.96			393	37.75	1,040
1945	220	21.28	429	41.49			385	37.23	1,034
1946	338	26.14	547	42.30			408	31.56	1,293
1947	317	22.92	582	42.08			484	35.00	1,383
1948	493	33.88	428	29.42			534	36.70	1,455
1949	254	24.14	292	27.76	80	7.60	426	40.50	1,052
1950	282	24.69	284	24.87	100	8.76	476	41.68	1,142
1951	315	29.69	240	22.62	71	6.69	435	41.00	1,061
1952	<u>392</u>	<u>34.39</u>	<u>218</u>	<u>19.12</u>	<u>60</u>	<u>5.26</u>	<u>470</u>	<u>41.23</u>	<u>1,140</u>
Total or Wts. Average	3,791	24.59	5,616	36.44	311	7.07 ^a	5,695	36.55	15,413

* Included in oil and/or gas prior to 1949.

^a Percentage for years reported.

COMPARISON OF BEREA AND CLINTON DRILLING*
1940-1952

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS ¹		
	Number of Completions	Average Initial Per Well Bbls	Number of Completions	Average Initial Per Well MCF	Number of Completions	Average Initial Per Well Bbls	Average Initial Per Well MCF
1940	184	8	125	105			
1941	178	6	150	188			
1942	43	10	86	168			
1943	44	7	89	214			
1944	53	11	125	187			
1945	49	16	89	263			
1946	118	15	88	174			
1947	114	19	103	256			
1948	161	10	86	123			
1949	78	7	73	158	39	11	145
1950	99	7	106	182	49	10	86
1951	134	10	82	266	17	20	93
1952	<u>139</u>	<u>8</u>	<u>73</u>	<u>221</u>	<u>12</u>	<u>23</u>	<u>130</u>
Total or Wts. Average	1,394	12	1,275	200	117	13	110

CLINTON COMPLETIONS

1940	57	44	229	967			
1941	80	111	325	1,092			
1942	88	77	273	904			
1943	86	66	276	1,237			
1944	67	36	285	1,085			
1945	102	37	247	1,092			
1946	132	29	371	1,656			
1947	130	33	384	1,538			
1948	173	39	262	991			
1949	96	59	138	1,146	34	31	295
1950	106	63	101	726	36	32	548
1951	90	54	98	691	47	43	384
1952	<u>148</u>	<u>65</u>	<u>88</u>	<u>917</u>	<u>41</u>	<u>44</u>	<u>366</u>
Total or Wts. Average	1,355	47	3,077	1,107	158	37	398

*Wells drilled deeper, for gas storage or water flooding not included.

¹ Included in oil and/or gas prior to 1949.

INITIAL AVERAGES AND NUMBER OF COMPLETIONS - BY SANDS
1940-1952

SHALLOW SANDS

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*		DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls		
1940	75	5	92	325			93	260
1941	65	4	162	381			123	350
1942	38	6	90	351			77	205
1943	32	16	57	471			72	161
1944	36	18	33	308			47	116
1945	61	9	55	205			42	158
1946	80	7	44	327			79	203
1947	65	13	43	268			74	182
1948	124	7	38	371			99	261
1949	63	5	54	278	3	2	80	200
1950	67	4	51	271	7	16	93	218
1951	68	4	30	160	4	6	82	184
1952	81	4	31	224	7	34	90	209
Total or Wts. Average	855	7	780	340	21	21	1,051	2,707
								119

* Included in oil and/or gas prior to 1949.

Continued from page 39.

BEREA SAND

YEAR	OIL WELLS			GAS WELLS			COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF	Number of Wells	Average Initial per Well MCF	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940	184	8	105	125	105					153	462
1941	178	6	188	150	188					150	478
1942	43	10	168	86	168					65	194
1943	44	7	214	89	214					82	215
1944	53	11	187	125	187					75	253
1945	49	16	263	89	263					87	225
1946	118	15	174	88	174					85	291
1947	114	19	256	103	256					121	338
1948	161	10	123	86	123					145	392
1949	78	7	158	73	158	39	11	145		138	328
1950	99	7	182	106	182	49	10	86		182	436
1951	134	11	265	82	265	17	19	93		161	394
1952	139	9	221	73	221	12	23	131		144	368
Total or Wts. Average	1,394	10	190	1,275	190	117	13	111		1,588	4,374

* Included in oil and/or gas prior to 1949.

OHIO SHALE

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940			18	83				2	20
1941			26	191				15	41
1942			7	131				6	13
1943			12	124				2	14
1944			6	89				5	11
1945			4	123				4	8
1946			13	186				1	14
1947			23	158				8	31
1948			6	106				6	12
1949			4	158				6	10
1950			8	440				2	10
1951			6	192				4	10
1952			9	238				6	15
Total or Wts. Average			142	171				67	209

* Included in oil and/or gas prior to 1949.

Continued from page 41.

ORISKANY SAND

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940			3	134				2	5
1941			7	432				4	11
1942			10	1,682				3	13
1943	1	40	17	1,392				5	23
1944	1	4	20	908				13	34
1945	2	6	24	1,633				16	42
1946	2	5	21	2,315				17	40
1947			7	598				8	15
1948	6	13	21	740				10	37
1949	1	4	10	310	1	5	50	13	25
1950			2	67	3	21	116	6	11
1951	2	4	9	1,908	1	30	75	6	18
1952	1	15	10	2,455	-	-	-	22	33
Total or Wts. Average	16	11	161	1,195	5	19	94	125	307

* Included in oil and/or gas prior to 1949.

Continued from page 42.

NEWBURG SAND

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940	2	20	21	977				5	28
1941	1	36	29	1,356				2	32
1942			5	783				1	6
1943			4	661				1	5
1944	2	21	3	504					5
1945	1	10	5	585				1	7
1946			6	1,445				1	7
1947			10	616				2	12
1948	3	38	11	249				3	17
1949			4	1,048				1	5
1950	2	7	14	426	3	98	247	2	21
1951	7	44	13	647	2	140	557	3	25
1952	3	42	3	551	-	-	-	1	7
Total or Wts. Average	21	32	128	848	5	114	371	23	177

* Included in oil and/or gas prior to 1949.

Continued from page 43.

CLINTON SAND

YEAR	OIL WELLS			GAS WELLS			COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF	Number of Wells	Average Initial per Well MCF	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940	57	44	967	229						141	427
1941	80	111	1,092	325						206	611
1942	88	77	904	273						188	549
1943	86	66	1,237	276						223	585
1944	67	36	1,085	285						245	597
1945	102	37	1,092	247						226	575
1946	132	29	1,656	371						212	715
1947	130	33	1,538	384						258	772
1948	173	39	991	262						258	693
1949	96	59	1,146	138	34			31	295	157	425
1950	106	63	726	101	36			32	548	164	407
1951	90	54	691	98	47			42	384	155	394
1952	148	65	917	88	41			44	341	161	438
Total or Wts. Average	1,355	52	1,166	3,077	158	37	397	2,598	7,188		

* Included in oil and/or gas prior to 1949.

MEDINA SAND

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF	Number of Wells	Average Initial per Well Bbls	Average Initial per Well MCF		
1940									
1941									
1942									
1943									
1944									
1945									
1946									
1947									
1948									
1949	15	29	9	536	3	17	758	20	47
1950	2	39	2	692				7	11
1951			1	169				11	12
1952			2	157				19	21
Total or Wts. Average	17	30	14	478	3	17	758	57	91

* Included in oil and/or gas prior to 1949.

Continued from page 45.

TRENTON

YEAR	OIL WELLS		GAS WELLS		Number of Wells	COMBINATION WELLS*		DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial per Well Bbls	Number of Wells	Average Initial per Well MCF		Number of Wells	Average Initial per Well Bbls		
1940	8	12	3	201				7	18
1941	9	5	2	50				20	31
1942	12	15						11	23
1943	7	14						5	12
1944	10	7	6	4				6	22
1945	5	6	5	24				7	17
1946	6	1	3	120				9	18
1947	8	9	12	40				8	28
1948	26	10	4	23				11	41
1949	1	4						9	10
1950	6	20			2	152	400	17	25
1951	14	26	1	150				3	18
1952	20	13	2	400	-	-	-	25	47
Total or Wts. Average	132	12	38	72	2	152	400	138	310

* Included in oil and/or gas prior to 1949.

SUB-TRENTON

YEAR	OIL WELLS		GAS WELLS		COMBINATION WELLS*			DRY HOLES	TOTAL WELLS DRILLED
	Number of Wells	Average Initial	Number of Wells	Average Initial	Number of Wells	Average Initial	Average Initial		
1940	1	1						7	8
1941								7	7
1942								5	5
1943								1	1
1944								2	2
1945								2	2
1946			1	67				4	5
1947								5	5
1948								2	2
1949								2	2
1950								3	3
1951								6	6
1952								2	2
Total or Wts. Average	1	1	1	67				48	50

* Included in oil and/or gas prior to 1949.

OIL AND GAS WELLS COMPLETED IN OHIO BY COUNTIES
1940 - 1952

ADAMS COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1946			1	1
1949			1	1
Totals			2	2
Per Cent Dry 100.0				

ALLEN COUNTY

1940	1		1	2
1941	2		2	4
1951	2			2
1952			2	2
Totals	5		5	10
Per Cent Dry 50.0				

ASHLAND COUNTY

1940	4	5	6	15
1941	10	20	36	66
1942	2	19	20	41
1943	5	22	14	41
1944	8	13	21	42
1945	14	18	16	48
1946	10	36	33	79
1947	21	18	30	69
1948	37	18	31	86
1949	63	6	34	103
1950	61	22	53	136
1951	81	5	59	145
1952	89	8	63	160
Totals	405	210	416	1,031
Per Cent Dry 40.3				

ASHTABULA COUNTY

1940			1	1
1941		1	2	3
1945		2	1	3
1947			1	1
1948		1	1	2
1950			1	1
1951		1	1	2
Totals		5	8	13
Per Cent Dry 61.5				

ATHENS COUNTY

1940	13	57	35	105
1941	12	60	43	115
1942	8	19	23	50
1943	10	27	36	73
1944	9	25	14	48
1945	8	14	16	38
1946	12	5	13	30
1947	13	4	15	32
1948	52	14	29	95
1949	17	20	23	60
1950	7	19	17	43
1951	4	6	3	13
1952	12	3	6	21
Totals	177	273	273	723
Per Cent Dry 37.8				

AUGLAIZE COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940			1	1
1941			1	1
1942			1	1
1947	4			4
1948	3		1	4
1952			1	1
Totals	7		5	12
Per Cent Dry 46.7				

BELMONT COUNTY

1940		2	1	3
1941		2	7	9
1942		4	2	6
1943			2	2
1945		1	3	4
1946		1	1	2
1947	1	3	9	13
1948		1	3	4
1949			4	4
1950	1	6	13	20
1951	1	1	4	6
1952		3	6	9
Totals	3	24	55	82
Per Cent Dry 67.1				

BUTLER COUNTY

1945		1		1
1946		1	1	2
Totals		2	1	3
Per Cent Dry 33.3				

CARROLL COUNTY

1940	1		2	3
1941			3	3
1942	2		2	4
1943	4		2	6
1944			1	1
1945			2	2
1946			2	2
1947	1	1		2
1948	9		7	16
1949			6	6
1950	3	3	9	15
1951	2	2	2	6
1952		1	11	12
Totals	22	7	49	78
Per Cent Dry 62.8				

CHAMPAIGN COUNTY

1949			1	1
------	--	--	---	---

CLERMONT COUNTY

1945		1		1
------	--	---	--	---

CLINTON COUNTY

1940			1	1
------	--	--	---	---

COLUMBIANA COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940			1	1
1941	2	4	15	21
1942	1	2	6	9
1943	1	1	7	9
1944	4	6	8	18
1945	1	15	13	29
1946	4	9	5	18
1947	2	8	8	18
1948	6	7	13	26
1949	1	1	3	5
1950	3		10	13
1951	7	1	6	14
1952		1	7	8
Totals	32	55	102	189
Per Cent Dry	54.0			

COSHOCTON COUNTY

1940	8	3	4	15
1941	8	10	8	26
1942	4	9	12	25
1943	8	8	11	27
1944	7	4	16	27
1945	3	5	12	20
1946	9	5	3	17
1947	5	3	8	16
1948	4	3	7	14
1949	5	2	14	21
1950	23	2	7	32
1951	54	7	18	79
1952	63	1	26	90
Totals	201	62	146	409
Per Cent Dry	35.7			

CUYAHOGA COUNTY

1940	1	8	3	12
1941		21	7	28
1942		6	2	8
1943	1	1	2	4
1944		6	5	11
1945		4	2	6
1946		4	2	6
1947		3	3	6
1948		28	7	35
1949		11	14	25
1950		1	1	2
1951		3	3	6
1952		1	2	3
Totals	2	97	53	152
Per Cent Dry	34.9			

DARKE COUNTY

1944		1		1
1945	1			1
1946	2	1	1	4
1947		2		2
1948	1	1		2

DARKE COUNTY - continued

YEAR	OIL	GAS	DRY	TOTAL
1950			1	1
1951	1			1
1952			2	2
Totals	5	5	4	14
Per Cent Dry	28.6			

DEFIANCE COUNTY

1948			1	1
1950			1	1
Totals			2	2
Per Cent Dry	100.0			

ERIE COUNTY

1949			1	1
1950	1		1	2
Totals	1		2	3
Per Cent Dry	66.6			

FAIRFIELD COUNTY

1940	1	10	12	23
1941		11	3	14
1942		8	1	9
1943	1	5	4	10
1944	1	6	6	13
1945	2	2	2	6
1946	1	2	5	8
1947	1	2	4	7
1948	2	2	1	5
1949	1		3	4
1950	4	3	6	13
1951	7	2	6	15
1952	2		2	4
Totals	23	53	55	131
Per Cent Dry	42.0			

FRANKLIN COUNTY

1940			1	1
------	--	--	---	---

FULTON COUNTY

1942			1	1
1943		9	1	10
1944		1		1
1946	1		3	4
1947			2	2
Totals	1	10	7	18
Per Cent Dry	38.9			

GALLIA COUNTY

1940		7	1	8
1941		9	1	10
1942		4	1	5
1943		5	5	10
1944		12	5	17
1945		3	1	4
1946		2	1	3
1947		2	1	3

GALLIA COUNTY - continued

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1948			1	1
1949			3	3
1950		2		2
Totals		46	20	66
Per Cent Dry	30.3			

GEAUGA COUNTY

1940			1	1
1941			1	1
1944			3	3
1947			2	2
1948			1	1
1949			2	2
1950			1	1
1952			2	2
Totals			13	13
Per Cent Dry	100.0			

GREENE COUNTY

1940			1	1
1942			1	1
Totals			2	2
Per Cent Dry	100.0			

GUERNSEY COUNTY

1940	5	22	15	42
1941		10	16	26
1942		9	4	13
1943	2	20	8	30
1944	2	9	12	23
1945	3	7	11	21
1946		9	14	23
1947	1	15	8	24
1948	3	12	8	23
1949	2	5	11	18
1950	3	2	4	9
1951	2	1	4	7
1952		7	5	12
Totals	23	128	120	271
Per Cent Dry	44.3			

HANCOCK COUNTY

1940			1	1
1941	1			1
1942	1			1
1943			1	1
1947		5		5
1950			2	2
1951		1		1
1952	1		2	3
Totals	3	6	6	15
Per Cent Dry	40.0			

HARDIN COUNTY

1941	1		1	2
1950			1	1
1951			3	3
1952			2	2
Totals	1		7	8
Per Cent Dry	87.5			

HARRISON COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1940	1	2		3
1941		2	8	10
1942			1	1
1943	3		1	4
1944			1	1
1945			1	1
1947			1	1
1948			2	2
1949			1	1
1950			2	2
Totals	4	4	18	26
Per Cent Dry	69.2			

HENRY COUNTY

1940	2			2
1941			2	2
1943	2			2
1944	1	1		2
1945			3	3
Totals	5	1	5	11
Per Cent Dry	45.4			

HIGHLAND COUNTY

1942			1	1
------	--	--	---	---

HOCKING COUNTY

1940	4		5	9
1941	2	6	6	14
1942	1	5	2	8
1943	2	8	4	14
1944	3	4	8	15
1945	2	8	5	15
1946	2	7	5	14
1947		1	8	9
1948	7	5	1	13
1949		6	3	9
1950	1	7	4	12
1951	5	4	3	12
1952	2	4	6	12
Totals	31	65	60	156
Per Cent Dry	38.5			

HOLMES COUNTY

1940		16	11	27
1941	1	12	7	20
1942	1	16	15	32
1943	1	26	17	44
1944	3	28	22	53
1945	5	20	10	35
1946	1	17	15	33
1947		6	5	11
1948	1	3	4	8
1949	7	2	9	18
1950	9	14	16	39
1951	17	21	20	58
1952	28	15	24	67
Totals	74	196	175	445
Per Cent Dry	39.3			

HURON COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1947			3	3
1949			1	1
1950			1	1
1951			1	1
1952			<u>2</u>	<u>2</u>
Totals			8	8
Per Cent Dry	100.0			

JACKSON COUNTY

1940		5		5
1941			1	1
1942		1		1
1943			1	1
1944			4	4
1945		3	1	4
1946		4	3	7
1947		2	3	5
1948			2	2
1951			2	2
1952			<u>1</u>	<u>1</u>
Totals		15	18	33
Per Cent Dry	54.5			

JEFFERSON COUNTY

1940	6		5	11
1941	6	2	8	16
1942	2		4	6
1943	1		5	6
1944	1	3	1	5
1945		1	4	5
1947	1	3	5	9
1948	2	1	9	12
1949		1	1	2
1950	4	4	8	16
1951	2	3	3	8
1952	<u>2</u>	<u>4</u>	<u>15</u>	<u>21</u>
Totals	27	22	68	117
Per Cent Dry	58.1			

KNOX COUNTY

1940	5	25	16	46
1941	4	43	30	77
1942	2	19	31	52
1943	5	5	13	23
1944	5	4	11	20
1945	3	9	12	24
1946	4	8	14	26
1947	2	12	11	25
1948	25	10	25	60
1949	30	14	19	63
1950	40	13	25	78
1951	23	9	20	52
1952	<u>68</u>	<u>7</u>	<u>28</u>	<u>103</u>
Totals	216	178	255	649
Per Cent Dry	39.3			

LAKE COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1940			1	1
1943			1	1
1944		3	1	4
1947			1	1
1948			2	2
1949		1	1	2
1950		3	2	5
1951		<u>1</u>		<u>1</u>
Totals		8	9	17
Per Cent Dry	52.9			

LAWRENCE COUNTY

1940		11	2	13
1941		20	2	22
1942		7	1	8
1943		4	5	9
1944		6	3	9
1945		4	2	6
1946		5	3	8
1947		4	4	8
1948		1	6	7
1949			2	2
1950		3	1	4
1951		3	1	4
1952		<u>9</u>	<u>2</u>	<u>11</u>
Totals		77	34	111
Per Cent Dry	30.6			

LICKING COUNTY

1940	30	90	39	159
1941	26	102	46	174
1942	10	24	9	43
1943	2	5	4	11
1944	14	4	4	22
1945	8	5	5	18
1946	28	16	10	54
1947	16	21	10	47
1948	22	7	14	43
1949	20	12	17	49
1950	29	2	21	52
1951	28	4	12	44
1952	<u>41</u>	<u>4</u>	<u>20</u>	<u>65</u>
Totals	274	296	211	781
Per Cent Dry	27.0			

LOGAN COUNTY

1944		2		2
1945		1		1
1946		1		1
1947			1	1
1948			2	2
1949			1	1
1950			1	1
1952			<u>2</u>	<u>2</u>
Totals		4	7	11
Per Cent Dry	63.6			

LORAIN COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1940	13	15	24	52
1941	1	10	19	30
1942		15	15	30
1943		29	24	53
1944		35	27	62
1945	1	36	27	64
1946	1	45	26	72
1947	1	36	38	75
1948		20	25	45
1949	1	21	17	39
1950	2	1	6	9
1951	1	3	5	9
1952		12	4	16
Totals	21	278	257	556

Per Cent Dry 46.2

MEIGS COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1940	1	19	10	30
1941	2	63	28	93
1942	2	42	22	66
1943	4	26	11	41
1944	8	16	6	30
1945	16	15	8	39
1946	60	17	12	89
1947	60	18	24	102
1948	52	13	19	84
1949	15	18	24	57
1950	21	24	13	58
1951	7	20	11	38
1952	9	8	8	25
Totals	257	299	196	752

Per Cent Dry 26.1

LUCAS COUNTY

1941			2	2
1945			1	1
1946			1	1
Totals			4	4

Per Cent Dry 100.0

MERCER COUNTY

1941	1			1
1942	4			4
1943	2		1	3
1944	4	2		6
1945	2	1		3
1946	2		2	4
1947	3	1		4
1948	21		6	27
1949	1			1
1950			2	2
1951	2			2
1952	11		2	13
Totals	53	4	13	70

Per Cent Dry 18.6

MAHONING COUNTY

1940			4	4
1941	1	2	3	6
1942	8			8
1943			2	2
1944			2	2
1945		2	8	10
1946		2	4	6
1947			2	2
1948			1	1
1949			1	1
1950		3	4	7
1951		2	2	4
1952	2		5	7
Totals	11	11	38	60

Per Cent Dry 63.3

MONROE COUNTY

1940	14	19	24	57
1941	7	31	11	49
1942	7	18	11	36
1943	9	11	10	30
1944	13	21	22	56
1945	16	29	11	56
1946	45	26	38	109
1947	36	50	36	122
1948	43	27	34	104
1949	25	27	23	75
1950	17	25	31	73
1951	13	20	19	52
1952	12	17	19	48
Totals	257	321	289	867

Per Cent Dry 33.3

MARION COUNTY

1949			1	1
------	--	--	---	---

MEDINA COUNTY

1940	121	16	49	186
1941	129	23	47	199
1942	18	33	18	69
1943	3	38	14	55
1944	4	34	24	62
1945	4	28	22	54
1946	3	11	11	25
1947	7	7	6	20
1948	8	13	23	44
1949		20	10	30
1950	6	10	16	32
1951	13	19	19	51
1952	2	9	22	33
Totals	318	261	281	860

Per Cent Dry 32.7

MONTGOMERY COUNTY

1952			1	1
------	--	--	---	---

MORGAN COUNTY

1940	6	10	15	31
1941	2	29	19	50
1942	5	43	23	71
1943	5	53	25	83
1944	1	26	21	48
1945	2	16	16	34

MORGAN COUNTY - continued

YEAR	OIL	GAS	DRY	TOTAL
1946	3	20	23	46
1947	8	15	19	42
1948	13	13	22	48
1949	9	15	14	38
1950	10	5	14	29
1951	4	7	13	24
1952	10	3	11	24
Totals	78	255	235	568
Per Cent Dry 41.3				

MUSKINGUM COUNTY

1940	4	27	10	41
1941	5	45	17	67
1942	8	33	14	55
1943	14	35	26	75
1944	16	43	35	94
1945	54	36	46	136
1946	66	50	30	146
1947	60	42	63	165
1948	56	34	41	131
1949	40	10	21	71
1950	21	3	19	43
1951	5	4	9	18
1952	4	14	13	31
Totals	353	376	344	1,073
Per Cent Dry 32.1				

NOBLE COUNTY

1940	21	30	24	75
1941	18	34	30	82
1942	4	17	16	37
1943	21	3	26	50
1944	6	28	19	53
1945	7	20	21	48
1946	8	10	24	42
1947	4	12	18	34
1948	8	9	19	36
1949	8	17	17	42
1950	21	13	27	61
1951	18	8	39	65
1952	13	2	21	36
Totals	157	203	301	661
Per Cent Dry 45.5				

OTTAWA COUNTY

1941	1			1
1942			2	2
1947	2			2
Totals	3		2	5
Per Cent Dry 40.0				

PERRY COUNTY

1940	36	15	15	66
1941	58	10	11	79
1942	63	21	26	110
1943	55	22	42	119
1944	40	23	29	92
1945	33	23	31	87
1946	51	41	37	129
1947	49	57	41	147

PERRY COUNTY - continued

YEAR	OIL	GAS	DRY	TOTAL
1948	61	68	63	192
1949	55	15	34	104
1950	53	17	37	107
1951	31	18	36	88
1952	22	8	22	52
Totals	607	338	427	1,372
Per Cent Dry 31.1				

PIKE COUNTY

1949			1	1
1950			1	1
Totals			2	2
Per Cent Dry 100.0				

PORTAGE COUNTY

1941			2	2
1945		1	2	3
1946		3		3
1947	1		1	2
1948	3		2	5
1949	1	2	1	4
1950		1	3	4
1951		1	3	4
1952		1	3	4
Totals	5	9	17	31
Per Cent Dry 54.8				

PREBLE COUNTY

1943			1	1
1944			1	1
1952			1	1
Totals			3	3
Per Cent Dry 100.0				

PUTNAM COUNTY

1940	1		2	3
1941	2			2
1942	1			1
1944			1	1
1945	1			1
1947			1	1
1948	1	1		2
1950			1	1
1952	2		1	3
Totals	8	1	6	15
Per Cent Dry 40.0				

RICHLAND COUNTY

1940			1	1
1941		1	1	2
1942		3	1	4
1943		7	3	10
1944			2	2
1945		1	3	4
1947			1	1
1949		1	1	2
1950		2	1	3
1951		8	9	17
1952		1	2	3
Totals		24	25	49
Per Cent Dry 51.0				

ROSS COUNTY

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1945			1	1
<u>SANDUSKY COUNTY</u>				
1945		1		1
1947			3	3
1952			1	1
Totals		<u>1</u>	<u>4</u>	<u>5</u>
Per Cent Dry 80.0				

SCIOTO COUNTY

1948			2	2
1949			1	1
1950			2	2
1951			3	3
Totals			<u>8</u>	<u>8</u>
Per Cent Dry 100.0				

SENECA COUNTY

1940	1	1	2	4
1941		1	6	7
1942			4	4
1944			1	1
1945			2	2
1946	1			1
1951	1			1
1952	<u>1</u>		<u>2</u>	<u>3</u>
Totals	<u>4</u>	<u>2</u>	<u>17</u>	<u>23</u>
Per Cent Dry 73.9				

SHELBY COUNTY

1945	1			1
------	---	--	--	---

STARK COUNTY

1940	1	17	8	26
1941		20	5	25
1942		12	7	19
1943		25	7	32
1944		50	4	54
1945	1	36	10	47
1946	1	139	9	149
1947	1	185	26	212
1948	6	62	25	93
1949	2	23	15	40
1950		15	11	26
1951		8	6	14
1952		<u>9</u>	<u>4</u>	<u>13</u>
Totals	<u>12</u>	<u>601</u>	<u>137</u>	<u>750</u>
Per Cent Dry 18.3				

SUMMIT COUNTY

1940		6	3	9
1941		8	3	11
1942		11	5	16
1943		13	9	22
1944	1	17	12	30
1945	2	8	5	15
1946		4	3	7
1947		6	3	9

SUMMIT COUNTY - continued

<u>YEAR</u>	<u>OIL</u>	<u>GAS</u>	<u>DRY</u>	<u>TOTAL</u>
1948	2	3	3	8
1949	2	1	2	5
1950	3	4	8	15
1951	3	5	5	13
1952	<u>1</u>	<u>2</u>	<u>11</u>	<u>14</u>
Totals	<u>14</u>	<u>88</u>	<u>72</u>	<u>174</u>
Per Cent Dry 41.4				

TRUMBULL COUNTY

1942			1	1
1946	1		2	3
1947			1	1
1948	3	2	1	6
1951			<u>2</u>	<u>2</u>
Totals	<u>4</u>	<u>2</u>	<u>7</u>	<u>13</u>
Per Cent Dry 53.8				

TUSCARAWAS COUNTY

1940		17	12	29
1941		21	10	31
1942		23	4	27
1943		11	8	19
1944		19	11	30
1945	2	24	14	40
1946	1	17	15	33
1947		14	11	25
1948	6	15	20	41
1949	1	17	18	36
1950		17	14	31
1951	1	14	15	30
1952		<u>30</u>	<u>14</u>	<u>44</u>
Totals	<u>11</u>	<u>239</u>	<u>166</u>	<u>416</u>
Per Cent Dry 39.9				

UNION COUNTY

1940			1	1
------	--	--	---	---

VAN WERT COUNTY

1940	3	3		6
1941			<u>2</u>	<u>2</u>
Totals	<u>3</u>	<u>3</u>	<u>2</u>	<u>8</u>
Per Cent Dry 25.0				

VINTON COUNTY

1940		2	1	3
1941		1	3	4
1942		1	7	8
1943		1		1
1944			1	1
1946		2	3	5
1947			1	1
1948	3		1	4
1949	2		4	6
1950	1		2	3
1951	1		3	4
1952	<u>1</u>		<u>2</u>	<u>3</u>
Totals	<u>8</u>	<u>7</u>	<u>28</u>	<u>43</u>
Per Cent Dry 65.1				

WARREN COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1947		1		1
1948		2		2
Totals		3		3
Per Cent Dry 0.0				

WASHINGTON COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940	22	29	26	77
1941	30	46	32	108
1942	19	24	25	68
1943	6	20	23	49
1944	12	19	18	49
1945	28	23	24	75
1946	21	22	30	73
1947	17	12	31	60
1948	30	20	39	89
1949	23	18	32	73
1950	28	21	38	87
1951	38	15	35	88
1952	45	29	42	116
Totals	319	298	395	1,012
Per Cent Dry 39.0				

WAYNE COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940		2	9	11
1941		20	13	33
1942	2	23	8	33
1943		15	13	28
1944	1	7	8	16
1945		5	10	15
1946		5	3	8
1947	1	8	13	22
1948	3	12	9	24
1949	3	6	9	18
1950	2	17	9	28
1951	4	13	24	41
1952	4	3	12	19
Totals	20	136	140	296
Per Cent Dry 47.3				

WILLIAMS COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940			1	1
1941			1	1
1942			1	1
1948			1	1
Totals			4	4
Per Cent Dry 100.0				

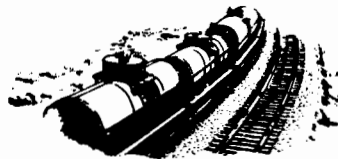
WOOD COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940			1	1
1941	2		1	3
1942	5		3	8
1943	3		2	5
1944	5		3	8
1945			1	1
1947	1	1	2	4
1952	2		1	3
Totals	18	1	14	33
Per Cent Dry 42.4				

WYANDOT COUNTY

YEAR	OIL	GAS	DRY	TOTAL
1940	1		1	2
1941			5	5
1942	1		3	4
1949			5	5
1950	8		8	16
1951	8		3	11
1952	3	2	7	12
Totals	21	2	32	55
Per Cent Dry 58.2				

TOTAL 4,102 5,616 5,695 15,413
PER CENT DRY 36.9



OIL AND GAS WELLS DRILLED IN OHIO 1888 - 1952*

C & E - Centran and Eastern Ohio					NW - Northwestern Ohio								
YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY	YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY		
Prior to						1897							
1888									1897				
C & E	3,788			3,788 ^a		C & E	499	88	246	833			
NW	1,503	731 ^b		2,234		NW	2,265	490 ^b		2,755			
Total	5,291	731		6,022		Total	2,764	578	246	3,588			
1888						1898							
C & E		75		75		C & E	366	120	172	658			
NW	514	28 ^b		542		NW	2,485	367 ^b		2,852			
Total	514	103		617		Total	2,851	487	172	3,510			
1889						1899							
C & E	839	83	98	1,020		C & E	1,796	134	408	2,338			
NW	648	20	34	702		NW	4,056	413 ^b		4,469			
Total	1,487	103	132	1,722		Total	5,852	547	408	6,807			
1890						1900							
C & E	346	^c	96	442 ^d		C & E	988	97	457	1,542			
NW	2,010	141 ^b		2,151		NW	4,535	478 ^b		5,013			
Total	2,356	141	96	2,593		Total	5,523	575	457	6,555			
1891						1901							
C & E	137	^c	56	193 ^d		C & E	922	113	573	1,608			
NW	1,326	246 ^b		1,572		NW	3,220	304 ^b		3,524			
Total	1,463	246	56	1,765		Total	4,142	417	573	5,132			
1892						1902							
C & E	86	^c	38	124 ^d		C & E	1,172	266	649	2,087			
NW	1,277	188 ^b		1,465		NW	3,971	242 ^b		4,213			
Total	1,363	188	38	1,589		Total	5,143	508	649	6,300			
1893						1903							
C & E	190	^c	46	236 ^d		C & E	1,518	290	777	2,585			
NW	1,557	320 ^b		1,877		NW	3,773	299 ^b		4,072			
Total	1,747	320	46	2,113		Total	5,291	589	777	6,657			
1894						1904							
C & E	215	^c	85	300 ^d		C & E	1,499	334	858	2,691			
NW	2,561	440 ^b		3,001		NW	2,908	233 ^b		3,141			
Total	2,776	440	85	3,301		Total	4,407	567	858	5,832			
1895						1905							
C & E	461	^c	127	588 ^d		C & E	1,107	342	680	2,129			
NW	4,729	830 ^b		5,559		NW	1,427	151 ^b		1,578			
Total	5,190	830	127	6,147		Total	2,534	493	680	3,707			
1896						1906							
C & E	620	641 ^e	856 ^f	2,117		C & E	1,031	337	681	2,049			
NW	3,713	626 ^b		4,339		NW	1,373	162 ^b		1,535			
Total	4,333	1,267	856	6,456		Total	2,404	499	681	3,584			

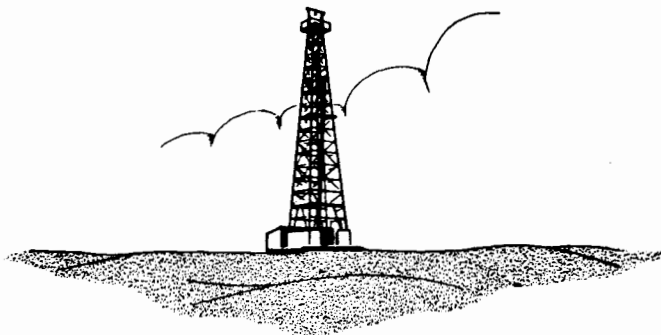
* Compiled from U. S. Bureau of Mines Mineral Year Books, The Derrick's Handbooks of Petroleum and the A. I. M. E. Annual Reviews.

YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY	YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY
1907						1919					
C & E	825	431	611	1,867		C & E	2,143	343	585	3,071	
NW	761	129 ^b		890		NW	328	57 ^b		385	
Total	1,586	560	611	2,757		Total	2,471	400	585	3,456	17
1908						1920					
C & E	837	398	695	1,930		C & E	1,502	354	722	2,578	
NW	768	80 ^b		848		NW	478	87 ^b		565	
Total	1,605	478	695	2,778		Total	1,980	441	722	3,143	23
1909						1921					
C & E	1,460	548	966	2,974		C & E	898	405	531	1,834	
NW	788	85 ^b		873		NW	372		89	461	
Total	2,248	633	966	3,847		Total	1,270	405	620	2,295	27
1910						1922					
C & E	945	542	670	2,157		C & E	1,046	482	546	2,074	
NW	515	57 ^b		572		NW	449	12	61	522	
Total	1,460	599	670	2,729		Total	1,495	494	607	2,596	24
1911						1923					
C & E	1,225	518	507	2,250		C & E	688	469	462	1,619	
NW	495	32 ^b		527		NW	605	17	75	697	
Total	1,720	550	507	2,777		Total	1,293	486	537	2,316	23
1912						1924					
C & E	846	2,130 ^g	956 ^h	3,932		C & E	656	519	376	1,551	
NW	481	70 ^b		551		NW	487	42	63	592	
Total	1,327	2,200	956	4,483		Total	1,143	561	439	2,143	20
1913						1925					
C & E	1,246	342 ^b	603	2,191		C & E	721	421	325	1,467	
NW	882	90		972	19	NW	512	26	89	627	
Total	2,128	432	603	3,163		Total	1,233	447	414	2,094	20
1914						1926					
C & E	863	664	517	2,044		C & E	812	484	348	1,644	
NW	776	68	17	861	18	NW	413	13	34	460	
Total	1,639	732	534	2,905		Total	1,225	497	382	2,104	18
1915						1927					
C & E	677	761	472	1,910		C & E	626	433	302	1,361	
NW	224	10	26	260	23	NW	211	16	35	262	
Total	901	771	498	2,170		Total	837	449	337	1,623	21
1916						1928					
C & E	927	402	525	1,854		C & E	660	496	340	1,496	
NW	620	79 ^b		699	21	NW	130	19	55	204	
Total	1,547	481	525	2,553		Total	790	515	395	1,700	23
1917						1929					
C & E	868	461	504	1,833		C & E	1,009	776	594	2,379	
NW	475	60 ^b		535	22	NW	126	25	40	191	
Total	1,343	521	504	2,368		Total	1,135	801	634	2,570	25
1918						1930					
C & E	803	439	446	1,688		C & E	815	581	533	1,929	
NW	419	47 ^b		466	21	NW	94	72	39	205	
Total	1,222	486	446	2,154		Total	909	653	572	2,134	27

YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY	YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY
1931						1941					
C & E	280	385	263	928		C & E	324	699	504	1,527	
NW	34	90	24	148		NW	9	2	23	34	
Total	314	475	287	1,076	27	Total	333	701	527	1,561	34
1932						1942					
C & E	230	216	200	646		C & E	169	471	339	979	
NW	49	51	24	124		NW	12		17	29	
Total	279	267	224	770	29	Total	181	471	356	1,008	35
1933						1943					
C & E	158	245	153	556		C & E	163	446	385	994	
NW	51	42	30	123		NW	7	9	6	22	
Total	209	287	183	679	27	Total	170	455	391	1,016	38
1934						1944					
C & E	402	412	242	1,056		C & E	159	471	387	1,017	
NW	48	21	34	103		NW	10	7	6	23	
Total	450	433	276	1,159	24	Total	169	478	393	1,040	38
1935						1945					
C & F	256	216	170	642		C & E	215	424	377	1,016	
NW	43	29	22	94		NW	5	5	8	18	
Total	299	245	192	736	26	Total	220	429	385	1,034	37
1936						1946					
C & E	310	372	237	919		C & E	332	554	399	1,275	
NW	35	37	9	81		NW	6	3	9	18	
Total	345	409	246	1,000	25	Total	338	557	408	1,293	32
1937						1947					
C & E	310	486	386	1,182		C & E	309	570	472	1,351	
NW	26	11	26	63		NW	8	12	12	32	
Total	336	497	412	1,245	33	Total	317	582	484	1,383	35
1938						1948					
C & E	177	414	273	864		C & E	467	426	523	1,416	
NW	18	9	19	46		NW	26	2	11	39	
Total	195	423	292	910	32	Total	493	428	534	1,455	37
1939						1949					
C & E	169	498	330	997		C & E	333	292	414	1,039	
NW	13	3	19	35		NW	1		12	13	
Total	182	501	349	1,032	34	Total	334 ^j	292	426	1,052	40
1940						1950					
C & E	318	487	396	1,201		C & E	373	284	456	1,113	
NW	9	4	14	27		NW	9		20	29	
Total	327	491	410	1,228	33	Total	382 ^j	284	476	1,142	42

YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY	YEAR	OIL	GAS	DRY	TOTAL	PER CENT DRY	
1951						1952						
C & E	372	239	428	1,039		C & E	432	216	441	1,089		
NW	14	1	7	22		NW	20	2	29	51		
Total	386	240	435	1,061	41	Total	452	218	470	1,140	41	
TOTALS							108,657	33,380	28,838	170,875		

- a - Gas and Dry not available
- b - Also includes Dry
- c - Not available
- d - Southeastern Ohio only
- e - Total drilled in Central Ohio prior to 1897
- f - Includes 207 drilled in Central Ohio prior to 1897
- g - Includes 1,778 shallow gas wells drilled in Central and Northeastern Ohio prior to 1913
- h - Includes 496 shallow dry holes drilled in Central and Northeastern Ohio prior to 1913
- j - Combination wells included
- k - Division of Geological Survey



**OIL AND GAS WELL DRILLING PERMITS
ISSUED BY THE OHIO DIVISION OF MINES 1913 - 1952**

Prepared by Mr. J. C. Wilson*

Year	Permits Issued	Maps Received	Logs Received	Wells Abn'd.	Wells Mudded
1913	693	487	-	270	-
1914	707	980	-	260	-
1915	600	1087	-	283	-
1916	1082	3252	-	287	-
1917	1090	2387	-	372	-
1918	1060	1860	-	374	-
1919	924	1720	-	381	-
1920	792	1596	-	404	-
1921	892	1879	-	504	-
1922	1144	1803	-	625	-
1923	1216	1837	-	581	-
1924	1090	2067	-	527	-
1925	986	2080	-	526	-
1926	1050	1732	-	542	-
1927	1017	1441	-	578	-
1928	977	1409	-	610	-
1929	1134	1399	-	694	-
1930	868	1372	-	601	-
1931	456	762	-	392	-
1932	457	730	557	368	-
1933	433	447	924	452	-
1934	579	800	873	643	-
1935	595	3393	1093	882	-
1936	847	1265	1157	900	-
1937	769	1266	1212	1284	-
1938	511	1120	828	1105	-
1939	612	1148	781	990	-
1940	708	915	976	1001	-
1941	891	1230	1166	1045	-
1942	660	975	1335	785	98
1943	805	1057	986	789	36
1944	751	857	981	668	47
1945	881	875	1088	643	16
1946	1195	1232	1181	903	189
1947	1224	1276	1380	1076	368
1948	1117	1369	1221	1245	225
1949	741	873	1367	1024	150
1950	756	885	1060	1047	102
1951	849	1173	1143	1683	131
1952	1354	1834	1241	1932	303
Totals	34,515	55,870	22,550	28,376	1,665

* Oil and Gas Well Inspector, Ohio Division of Mines.

¹ Annular space in well filled with mud. Practice permissible to conserve casing.

SUPPLEMENT TO
OIL, GAS, AND WATER WELL CUTTINGS LIST
SHOWN IN REPORT OF INVESTIGATIONS NO. 13
OIL AND GAS SERIES NO. 3

Ashland County

Perry Twp., Sec. 16, Sample No. 497
Lamel Corp., #1-B John E. Harpster
Date Completed: 4-22-52, Total Depth: 816
Sample Range: 50-816 34 Samples
Samples Missing: 225-257, 260-274, 390-413,
445-498, 527-600, 605-622, 626-655, 660-701,
709-738, 744-768
Geologic Sample Range: Surface-Berea
Division of Mines No.: 685

Athens County

Bern Twp., Sec. 7, Sample No. 552
Joe Hollow Oil Co. #25 Armadale Coal Co.
Date Completed: 7-19-52, Total Depth: 388
Sample Range: 0-380 90 Samples
Samples Missing: None
Geologic Sample Range: Surface-Cow Run
Division of Mines No.: 1041

Columbiana County

Salem Twp., Sec. 36, Sample No. 467
Manufacturers Light and Heat Co. #2
E. E. Halverstadt
Date Completed: 7-17-51, Total Depth: 6,200
Sample Range: 530-6,200 588 Samples
Samples Missing: 2, 680-2, 695, 3, 075-3, 090,
3, 410-3, 425, 5, 721-5, 729, 5, 746-5, 900,
5, 920-5, 926
Geologic Sample Range: Berea-Red Medina
Division of Mines No.: 328

Coshocton County

New Castle Twp., 3rd 1/4, Sample No. 493
Pure Oil Co. #3 R. J. Dalieri
Date Completed: 8-14-51, Total Depth: 3,337
Sample Range: 220-3,331 259 Samples
Samples Missing: 714-722, 1, 311-1, 324,
1, 785-1, 796, 1, 823-1, 828, 2, 426-2, 436,
3, 104-3, 130, 3, 196-3, 203
Geologic Sample Range: Surface-Clinton
Division of Mines No.: 370

Darke County

Patterson Twp., Sec. 19, Sample No. 555
Fred Kelch #2 Jos. Broering
Date Completed: 10-31-52, Total Depth: 1,251
Sample Range: 180-1,249 68 Samples
Samples Missing: 185-190, 195-225, 240-250,
255-260
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 3

Erie County

Margaretta Twp., _____, Sample No. 523
Resthaven Project #13
Date Completed: 3-5-52, Total Depth: 168
Sample Range: 60-165 21 Samples
Sample Missing: None
Geologic Sample Range: Big Lime
Division of Water No.: 187

Margaretta Twp., _____, Sample No. 524
Resthaven Project #14
Date Completed: 12-28-52, Total Depth: 156
Sample Range: 61½-156 22 Samples
Samples Missing: None
Geologic Sample Range: Big Lime
Division of Water No.: 188

Margaretta Twp., _____, Sample No. 525
Resthaven Project #15
Date Completed: 1-24-52, Total Depth: 168
Sample Range: 68-168 25 Samples
Samples Missing: None
Geologic Sample Range: Big Lime
Division of Water No.: 189

Franklin County

Clinton Twp., 3rd 1/4, Sample No. 487
Ohio State University Dairy
Date Completed: 6-49, Total Depth: 178
Sample Range: 61-178 9 Samples
Samples Missing: 155-165
Geologic Sample Range: Big Lime
Division of Water No.: 875

Jackson Twp., _____, Sample No. 535
 Grove City Waterworks
 Date Completed: 1952, Total Depth: 290
 Sample Range: 163-275 22 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: 2154

Norwich Twp., _____, Sample No. 526
 City of Columbus, Municipal Golf Course
 Date Completed: 1-24-52, Total Depth: 300
 Sample Range: 0-200 21 Samples
 Samples Missing: 50-97
 Geologic Sample Range: Big Lime
 Division of Water No.: 2070

Fulton County

York Twp., Sec. 16, Sample No. 534
 Bert Shaffer
 Date Completed: 1945, Total Depth: 395
 Sample Range: 170-384 43 Samples
 Samples Missing: 225-236, 268-275, 280-290,
 367-380
 Geologic Sample Range: Ohio Shale-Silica Shale
 Division of Water No.: 280

Geauga County

Munson Twp., Sec. 3, Sample No. 496
 Walter C. Best, Inc. #1 Donald Laing
 Date Completed: 4-52, Total Depth: 3,448
 Sample Range: 3,261-3,440 19 Samples
 Samples Missing: 3,399-3,408
 Geologic Sample Range: Newburg
 Division of Mines No.: 10

Greene County

Cedarville Twp., _____, Sample No. 541
 Waterworks, Village of Cedarville
 Date Completed: Deepened 1950, Total Depth: 165
 Sample Range: 108-165 9 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: None

Hardin County

Lynn Twp., Lot 3451, Sample No. 528
 Scioto Valley, Inc. #1 S. J. Fults
 Date Completed: 7-16-52, Total Depth: 1,481
 Sample Range: 395-1,480 146 Samples
 Samples Missing: 638-645, 1,440-1,446
 Geologic Sample Range: Trenton
 Division of Mines No.: 53

McDonald Twp., _____, Sample No. 549
 John J. Stambaugh #1
 Date Completed: 8-14-52, Total Depth: 225
 Sample Range: 178-225 14 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: 148

Henry County

Richfield Twp., Sec. 27, Sample No. 484
 C. F. Parkinson #1 B. Smith
 Date Completed: 11-23-51, Total Depth: 1,635
 Sample Range: 19-1,623 221 Samples
 Samples Missing: 23-26, 80-86, 240-250,
 443-450, 460-469, 517-533, 890-900
 Geologic Sample Range: Surface-Trenton
 Division of Mines No.: 9

Hocking County

Washington Twp., Sec. 4, Sample No. 485
 Waverly Oil Co. #1 H. W. Davis
 Date Completed: 1-25-52, Total Depth: 2,774
 Sample Range: 2,714-2,774 7 Samples
 Samples Missing: None
 Geologic Sample Range: Clinton
 Division of Mines No.: 289

Washington Twp., Sec. 17, Sample No. 515
 Waverly Oil Works #1 Griffith
 Date Completed: 6-17-52, Total Depth: 2,800
 Sample Range: 2,716-2,790 9 Samples
 Samples Missing: None
 Geologic Sample Range: Clinton
 Division of Mines No.: 327

Washington Twp., Sec. 36, Sample No. 490
 Waverly Oil Co. #1 R. Williams
 Date Completed: 3-29-52, Total Depth: 3,104
 Sample Range: 3,012-3,104 11 Samples
 Samples Missing: 3,084-3,099
 Geologic Sample Range: Clinton
 Division of Mines No.: 309

Huron County

Hartland Twp., Sec. 4, Sample No. 519
 Frank Ireland #2 Fred & I. G. Clemens
 Date Completed: 6-14-52, Total Depth: 855
 Sample Range: 57-855 76 Samples
 Samples Missing: 674-679
 Geologic Sample Range: Berea-Big Lime
 Division of Mines No.: 18

Knox County

Jackson Twp., Sec. 15, Sample No. 500
 L. H. Bebout et al #1 H. L. Hess
 Date Completed: 4-24-52, Total Depth: 2,776
 Sample Range: 1,719-2,771 82 Samples
 Samples Missing: 2,562-2,675, 2,766-2,774
 Geologic Sample Range: Big Lime-Clinton
 Division of Mines No.: 654

Jackson Twp., Sec. 18, Sample No. 501
 John Wray #4 V. S. Wolfe
 Date Completed: 5-8-52, Total Depth: 3,058
 Sample Range: 760-3,058 171 Samples
 Samples Missing: 841-847, 911-980, 1,130-1,140,
 1,180-1,190, 2,140-2,160, 2,840-2,847,
 2,850-2,940

Geologic Sample Range: Berea-Clinton
Division of Mines No.: 638

Licking County

Jackson Twp., Sec. 18, Sample No. 537
John Wray #2 Lee Dugan
Date Completed: 6-25-52, Total Depth: 2,995
Sample Range: 90-2,986 129 Samples
Samples Missing: 205-582, 840-970, 1,750-2,890
Geologic Sample Range: Surface-Clinton
Division of Mines No. 639

Hanover Twp., Sec. 14, Sample No. 486
Waverly Oil Co. #2 Cartnal Bros.
Date Completed: 2-21-52, Total Depth: 2,741
Sample Range: 2,630-2,737 15 Samples
Samples Missing: None
Geologic Sample Range: Clinton
Division of Mines No.: 879

Jackson Twp., Sec. 18, Sample No. 539
John Wray #2 Virgil Wolfe
Date Completed: 3-52, Total Depth: 2,989
Sample Range: 2,932-2,989 11 Samples
Samples Missing: None
Geologic Sample Range: Clinton
Division of Mines No. 653

Hanover Twp., 2nd 1/4, Lot 11, Sample No. 488
Waverly Oil Co. #1 J. M. Fowler
Date Completed: 3-10-52, Total Depth: 2,737
Sample Range: 2,630-2,737 15 Samples
Samples Missing: None
Geologic Sample Range: Clinton
Division of Mines No.: 873

Jackson Twp., Sec. 23, Sample No. 508
Mid-East Oil #1 Clyde (Lola) Thompson
Date Completed: 6-52, Total Depth: 2,976
Sample Range: 821-2,976 108 Samples
Samples Missing: 1,045-1,909, 1,947-2,060
2,127-2,132
Geologic Sample Range: Little Cinnamon-Clinton
Division of Mines No.: 663

Hanover Twp., 2nd 1/4, Lot 13, Sample No. 489
Waverly Oil Co. #1 L. J. Wolford
Date Completed: 3-18-52, Total Depth: 2,909
Sample Range: 2,778-2,886 9 Samples
Samples Missing: 2,790-2,822
Geologic Sample Range: Clinton
Division of Mines No.: 857

Jackson Twp., Sec. 23, Sample No. 538
C. A. Davis #2 Earl Burch
Date Completed: 8-15-52, Total Depth: 3,124
Sample Range: 3,054-3,124 11 Samples
Samples Missing: None
Geologic Sample Range: Clinton
Division of Mines No.: 664

Hanover Twp., 2nd 1/4, Lot 11, Sample No. 516
Waverly Oil Co. #4 Cartnal Bros.
Date Completed: 6-5-52, Total Depth: 2,742
Sample Range: 2,615-2,742 20 Samples
Samples Missing: None
Geologic Sample Range: Clinton
Division of Mines No.: 906

Logan County

Lake County

Painesville Twp., _____, Sample No. 565
Diamond Alkali Co. #32 Fee
Date Completed: 1-53, Total Depth: 2,982
Sample Range: 1,568-2,982 209 Samples
Samples Missing: 1,593-1,723, 1,740-1,741,
1,790-1,815, 1,930-1,931, 2,010-2,014,
2,421-2,426, 2,606-2,610, 2,733-2,735,
2,817-2,828, 2,832-2,835
Geologic Sample Range: Big Lime
Division of Mines No.: 14

Bloomfield Twp., Sec. 28, Sample No. 529
Sycamore Oil and Gas Co. #3 Ray Dalrymple
Date Completed: 6-29-52, Total Depth: 1,402
Sample Range: 25-1,394 30 Samples
Samples Missing: 130-155, 160-165
Geologic Sample Range: Surface-Trenton
Division of Mines No.: 21

Lawrence County

Elizabeth Twp., Sec. 34, Sample No. 558
Mineral Products Co. #1 U. S. A.
Date Completed: 10-28-47, Total Depth: 562
Sample Range: 11-553 1/3 137 Samples
Sample Missing: None
Geologic Sample Range: Surface-Sharon
Division of Mines No.: 117

McArthur Twp., Lot 14033, Sample No. 551
Tip Top Oil Co. #1 Oris J. Hemphill
Date Completed: 10-9-52, Total Depth: 2,292
Sample Range: 0-2,292 284 Samples
Samples Missing: None
Geologic Sample Range: Surface-St. Peter
Division of Mines No.: 23

McArthur Twp., _____, Sample No. 559
Tip Top Oil Co. #1 Albert Shields
Date Completed: 10-21-52, Total Depth: 1,629
Sample Range: 325-1,629 165 Samples
Samples Missing: 1,010-1,021, 1,580-1,600
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 25

Lorain County

Lagrange Twp., Lot 49, Sample No. 563
Ohio Fuel Gas Co. #1 Charles Noble
Date Completed: 10-24-52, Total Depth: 2,550
Sample Range: 208-2,550 51 Samples
Samples Missing: 938-970, 1,160-1,360
Geologic Sample Range: Ohio Shale-Clinton
Division of Mines No.: 645

Lucas County

Toledo Twp., _____, Sample No. 533
Smith's Restaurant
Date Completed: 6-52, Total Depth: 500
Sample Range: 125-500 58 Samples
Samples Missing: 295-300, 315-325, 345-365,
370-375, 420-425
Geologic Sample Range: Big Lime
Division of Water No.: None

Meigs County

Chester Twp., Sec. 3, Sample No. 544
Mammoth Prod. Corp. #1 Clifford Morris
Date Completed: 8-8-52, Total Depth: 3,942
Sample Range: 3,877-3,921 14 Samples
Samples Missing: None
Geologic Sample Range: Oriskany
Division of Mines No.: 1019

Lebanon Twp., Sec. 35, Sample No. 564
Ohio Fuel Gas #2 W. H. Hall
Date Completed: 8-27-52, Total Depth: 3,582
Sample Range: 3,299-3,582 30 Samples
Samples Missing: 3,379-3,389, 3,424-3,432
Geologic Sample Range: Ohio Shale
Division of Mines No.: 105

Rutland Twp., Sec. 9, Sample No. 517
Frank Utsinger #3 Opal Armstrong
Date Completed: 4-17-52, Total Depth: 835
Sample Range: 540-835 13 Samples
Samples Missing: Random samples
Geologic Sample Range: Pennsylvanian
Division of Mines No.: 1015

Sutton Twp., Lot 1223, Sample No. 518
C. H. Williams et al #2 Rose Hill Coal Co.
Date Completed: 6-16-52, Total Depth: 739
Sample Range: 301-739 41 Samples
Samples Missing: None
Geologic Sample Range: Pennsylvanian
Division of Mines No.: 1018

Mercer County

Gibson Twp., Sec. 15, Sample No. 530
Rush Creek O. & G. #1 Viola Snyder
Date Completed: 8-52, Total Depth: 1,624
Sample Range: 1,105-1,624 99 Samples
Samples Missing: None
Geologic Sample Range: Trenton-St. Peter
Division of Mines No.: 22

Gibson Twp., Sec. 32, Sample No. 483
C. F. Parkinson #1 Alvin & Mary Keller
Date Completed: 2-52, Total Depth: 1,180
Sample Range: 0-1,180 168 Samples
Samples Missing: 80-90, 115-125, 150-155,
160-165, 290-325, 365-370, 450-465, 535-560,
640-650, 830-835, 865-870, 880-890
Geologic Sample Range: Surface-Trenton
Division of Mines No.: 13

Gibson Twp., Sec. 32, Sample No. 521
C. F. Parkinson #1 P. Olding
Date Completed: 5-31-52, Total Depth: 1,196
Sample Range: 95-1,196 115 Samples
Samples Missing: None
Geologic Sample Range: Surface-Trenton
Division of Mines No.: 19

Grandville Twp., Sec. 21, Sample No. 522
Village of St. Henry #3
Date Completed: _____, Total Depth: 294
Sample Range: 0-290 59 Samples
Samples Missing: None
Geologic Sample Range: Surface-Clinton
Division of Water No.: 272

Jefferson Twp., Sec. _____, Sample No. 536
Stearic Acid Co.
Date Completed: _____, Total Depth: 272
Sample Range: 10-270 51 Samples
Samples Missing: 50-55
Geologic Sample Range: Surface-Clinton
Division of Water No. 271

Montgomery County

Butler Twp., Sec. 11, Sample No. 550
R. S. Jenkins #1 Fee
Date Completed: 1952, Total Depth: 985
Sample Range: 345-985 72 Samples
Samples Missing: 425-475, 550-560, 905-915,
930-940
Geologic Sample Range: Ordovician
Division of Mines No.: 2

Morgan County

Deerfield Twp., Sec. 14, Sample No. 567
Roy G. Gordon #2 L. Wiseman
Date Completed: 1-53, Total Depth: 587
Sample Range: 10-587 112 Samples
Samples Missing: None
Geologic Sample Range: Pennsylvanian
Division of Mines No.: 782

Malta Twp., Sec. 13, Sample No. 568
Roy G. Gordon #1 Frank Newman
Date Completed: 2-53, Total Depth: 669
Sample Range: 0-669 119 Samples
Samples Missing: None
Geologic Sample Range: Pennsylvanian
Division of Mines No.: 786

Malta Twp., Sec. 24, Sample No. 556
 Roy G. Gordon #1 Paul Massey
 Date Completed: 12-52, Total Depth: 720
 Sample Range: 0-720 133 Samples
 Samples Missing: None
 Geologic Sample Range: Pennsylvanian
 Division of Mines No.: 774

Perry County

Jackson Twp., Sec. 19, Sample No. 532
 Beach Oil & Gas Co. #2 B. Stemen
 Date Completed: 4-19-52, Total Depth: 2,867
 Sample Range: 36-2,867 52 Samples
 Samples Missing: 740-825, 840-854, 864-940,
 1,225-1,270, 1,893-1,907, 1,966-2,084,
 2,400-2,413, 2,480-2,592, 2,627-2,630,
 2,729-2,771, 2,809-2,821, 2,847-2,853
 Geologic Sample Range: Surface-Clinton
 Division of Mines No.: 1576

Portage County

Aurora Twp., Sec. 7, Sample No. 545
 International Salt and Nickel Plate RR, Julius
 Wides
 Date Completed: 1-30-51, Total Depth: 3,306
 Sample Range: 0-2,540 303 Samples
 Samples Missing: Numerous short skips
 Geologic Sample Range: Big Lime
 Division of Mines No.: 24

Preble County

Harrison Twp., Sec. 21, Sample No. 509
 Marble Cliff Quarries Co. #1 Fee
 Date Completed: 9-11-52, Total Depth: 1,102
 Sample Range: 0-1,100 217 Samples
 Samples Missing: 770-780
 Geologic Sample Range: Surface-Trenton
 Division of Mines No.: 1

Seneca County

Bloom Twp., Sec. 4, Sample No. 543
 Frank Lyons #1 Delbert Vogle
 Date Completed: 8-27-52, Total Depth: 2,065
 Sample Range: 1,985-2,065 19 Samples
 Samples Missing: None
 Geologic Sample Range: Trenton
 Division of Mines No.: 80

Clinton Twp., Sec. 29, Sample No. 495
 J. D. Nonnemaker #2 Ira M. Swanders
 Date Completed: 12-27-51, Total Depth: 1,649
 Sample Range: 1,569-1,649 14 Samples
 Samples Missing: None
 Geologic Sample Range: Trenton
 Division of Mines No.: 27

Jackson Twp., Sec. _____, Sample No. 542
 The Electric Auto-Lite #2
 Date Completed: 11-24-51, Total Depth: 295

Sample Range: 3-295 53 Samples
 Samples Missing: 110-115
 Geologic Sample Range: Big Lime
 Division of Water No.: 344

Shelby County

Clinton Twp., Sec. 36, Sample No. 527
 Sidney Tanning Co.
 Date Completed: _____, Total Depth: 235
 Sample Range: 80-225 28 Samples
 Samples Missing: 125-130
 Geologic Sample Range: Big Lime
 Division of Water No.: 239

Stark County

Jackson Twp., Sec. 16, Sample No. 553
 East Ohio Gas #4 Florence L. Carnes
 Date Completed: 10-9-51, Total Depth: 4,359
 Sample Range: 314-4,340 420 Samples
 Samples Missing: 1,195-1,205, 3,627-3,634,
 3,832-3,844, 4,315-4,318
 Geologic Sample Range: Injun-Clinton
 Division of Mines No.: 919

Van Wert County

Liberty Twp., Sec. 15, Sample No. 498
 Ohio City Water Dept. #4 Ohio City, Ohio
 Date Completed: 5-10-50, Total Depth: 300
 Sample Range: 60-300 10 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: 57

Liberty Twp., Sec. 15, Sample No. 499
 Ohio City Water Dept. #3 Ohio City, Ohio
 Date Completed: 4-4-50, Total Depth: 335
 Sample Range: 35-335 24 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: 58

Tully Twp., Sec. 35, Sample No. 546
 Convoy Water Works
 Date Completed: _____, Total Depth: 300
 Sample Range: 40-300 52 Samples
 Samples Missing: None
 Geologic Sample Range: Big Lime
 Division of Water No.: 206

Vinton County

Brown Twp., Sec. 36, Sample No. 540
 Waverly Oil Co. #1 Delmar D. Ward
 Date Completed: 8-12-52, Total Depth: 2,973
 Sample Range: 0-2,973 325 Samples
 Samples Missing: 1,485-1,495
 Geologic Sample Range: Surface-Clinton
 Division of Mines No.: 61

Washington County

Belpre Twp., Sec. 8, Sample No. 506
Ohio Fuel Gas #1 W. D. Houser
Date Completed: 5-16-52, Total Depth: 4, 296
Sample Range: 2, 270-4, 253 106 Samples
Samples Missing: 3, 725-3, 743, 4, 125-4, 136,
4, 156-4, 167
Geologic Sample Range: Big Lime
Division of Mines No.: 1515

Belpre Twp., Sec. 31, Sample No. 492
F. S. Deem, #1 John W. Walker
Date Completed: 4-52, Total Depth: 4, 110
Sample Range: 1, 181-4, 110 306 Samples
Samples Missing: 1, 536-1, 543, 3, 660-3, 668,
3, 876-3, 884, 3, 923-3, 953, 3, 965-3, 969
Geologic Sample Range: Injun-Oriskany
Division of Mines No.: 1529

Decatur Twp., Sec. 8, Sample No. 491
Mid East Oil #1 N. Riddle
Date Completed: 4-16-52, Total Depth: 4, 093
Sample Range: 3, 974-4, 056 22 Samples
Samples Missing: None
Geologic Sample Range: Big Lime-Oriskany
Division of Mines No.: 1538

Watertown Twp., Lot 29, Sample No. 557
J. L. Shearer #1 J. F. Farley
Date Completed: 8-9-52, Total Depth: 4, 317
Sample Range: 95-4, 316 488 Samples
Samples Missing: 188-194, 278-290, 700-707,
900-968, 1, 254-1, 262, 1, 300-1, 308, 1, 426-
1, 433, 1, 500-1, 509, 1, 530-1, 550, 1, 844-1, 854,
2, 226-2, 232, 2, 311-2, 317, 3, 052-3, 062,
3, 386-3, 395
Geologic Sample Range: Surface-Oriskany
Division of Mines No.: 1552

Wood County

Henry Twp., Sec. 11, Sample No. 562
Ohio Oil Co. #3 O. E. Sponsler
Date Completed: 1-53, Total Depth: 1, 226
Sample Range: 30-1, 224 145 Samples
Samples Missing: 920-930, 1, 050-1, 060,
1, 181-1, 190
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 25

Liberty Twp., Sec. 34, Sample No. 561
Ohio Oil Co., #1 J. R. Arter
Date Completed: 1-53, Total Depth: 1, 245
Sample Range: 34-1, 245 166 Samples
Samples Missing: 320-340, 1, 140-1, 150
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 22

Ross Twp., Sec. _____, Sample No. 548
International Chem. & Min.
Date Completed: 1952, Total Depth: 500
Sample Range: 83½-500 82 Samples

Samples Missing: None
Geologic Sample Range: Big Lime
Division of Water No.: None

Wyandot County

Crane Twp., Sec. 3, Sample No. 502
H. J. Lininger #4 R. D. Newell
Date Completed: 4-12-52, Total Depth: 1, 407
Sample Range: 1, 358-1, 407 12 Samples
Samples Missing: None
Geologic Sample Range: Trenton
Division of Mines No.: 91

Crane Twp., Sec. 3, Sample No. 503
Frank Lyons #3 Robert Smalley
Date Completed: 3-27-52, Total Depth: 1, 431
Sample Range: 1, 364-1, 419 10 Samples
Samples Missing: None
Geologic Sample Range: Trenton
Division of Mines No.: 92

Crane Twp., Sec. 3, Sample No. 504
H. J. Lininger #1 Fred Seifert
Date Completed: 9-51, Total Depth: 1, 393
Sample Range: 1-1, 391 24 Samples
Samples Missing: Random samples
Geologic Sample Range: Surface-Trenton
Division of Mines No.: 86

Crane Twp., Sec. 3, Sample No. 505
Frank Lyons #2 Robert Smalley
Date Completed: 4-3-52, Total Depth: 1, 495
Sample Range: 1, 345-1, 495 11 Samples
Samples Missing: None
Geologic Sample Range: Trenton
Division of Mines No.: 81

Crane Twp., Sec. 27, Sample No. 531
A. H. Kaiser #1 Kuenzli Quarries
Date Completed: 8-5-53, Total Depth: 1, 532
Sample Range: 240-1, 472 79 Samples
Samples Missing: 250-400, 585-600, 630-640,
900-930, 990-1, 000, 1, 140-1, 180, 1, 300-1, 310
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 98

Crane Twp., Sec. 34, Sample No. 494
H. J. Lininger #4 R. D. Newell (Seifert)
Date Completed: 10-25-51, Total Depth: 1, 451
Sample Range: 270-1, 451 12 Samples
Samples Missing: 272-1, 396
Geologic Sample Range: Big Lime-Trenton
Division of Mines No.: 78

Pitt Twp., Sec. 11, Sample No. 520
H. F. White #1 C. D. Stubbs
Date Completed: 6-18-52, Total Depth: 1, 522
Sample Range: 10-1, 522 53 Samples
Samples Missing: Random samples
Geologic Sample Range: Surface-Trenton
Division of Mines No.: 95

Pitt Twp. , Sec. 14, Sample No. 507

H. F. White #1 F. Moser

Date Completed: 4-30-52, Total Depth: 1,581

Sample Range: 1,495-1,581 21 Samples

Samples Missing: None

Geologic Sample Range: Trenton

Division of Mines No. : 88

Salem Twp. , Sec. 25, Sample No. 547

City of Upper Sandusky

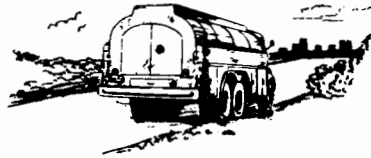
Date Completed: 1952, Total Depth: 229

Sample Range: 55-229 27 Samples

Samples Missing: None

Geologic Sample Range: Big Lime

Division of Water No. : None



OHIO DIVISION OF GEOLOGICAL SURVEY
Orton Hall, Ohio State University, Columbus, Ohio

OIL AND GAS PUBLICATIONS

- Report of Investigations No. 8. (Petroleum and Natural Gas Series No. 1) Part I. Ohio Oil and Gas Well Drilling Statistics for 1950. Part II Oil and Gas Production, History, Regulations, Secondary Recovery, and Bibliography, by R. L. Alkire, 1951. (Out of print - Available in Ohio Public Libraries)
- Report of Investigations No. 10. (Petroleum and Natural Gas Series No. 2). Oil and Gas in Perry County; by R. L. Alkire, 1952.
- Report of Investigations No. 13. (Petroleum and Natural Gas Series No. 3.) Part I. Oil and Gas Drilling Statistics for 1951; by R. L. Alkire. Part II Oriskany Sand Study, by John F. Hall; Clinton Gas Pool, by Henry Belden; Wells Drilled in Ohio 1888 - 1951; Oil and Gas Producing Charts; Well Sample Cuttings.
- Map of Oil and Gas Fields of Ohio. By Robert L. Alkire and Harold J. Flint. 1948. Scale 1 inch equals 6 miles. Shows location of 488 oil and gas fields, with field names and producing sands. A generalized section of the rocks of Ohio gives both drillers and geologic formation names. Price, \$1.00 plus 3 cents tax in Ohio. (1952 edition in press)
- Map of Oil and Gas Pipe Lines in Ohio: By Robert L. Alkire and Harold J. Flint. 1949. On scale of 1 inch equals 6 miles, this map, in seven colors, shows the extensive operations of the oil and gas industry in Ohio. The gas portion contains the names of utility companies, size, number, and ownership of transmission lines, number of consumers, points of distribution, compressor stations, underground gas storage areas, and gas lines entering the State. The oil section includes location of refineries, their capacity, principal refined products, crude and products transmission lines, direction of flow, compressor stations, and large storage terminals. Price folded, \$1.50, plus 5 cents sales tax in Ohio; unfolded, 45 cents additional.