

STATE OF ILLINOIS



DEPARTMENT OF REGISTRATION AND EDUCATION

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1957

PETROLEUM INDUSTRY IN ILLINOIS IN 1955

Part I. Oil and Gas Developments

Alfred H. Bell

Virginia Kline

Part II. Waterflood Operations

Paul A. Witherspoon

Donald A. Pierre

BULLETIN 81

ILLINOIS STATE GEOLOGICAL SURVEY

JOHN C. FRYE, *Chief*

URBANA, ILLINOIS

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Urbana, Illinois

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Topographic Mapping in Cooperation with the
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PETROLEUM INDUSTRY IN ILLINOIS, 1955

PART I

OIL AND GAS DEVELOPMENTS

ALFRED H. BELL and VIRGINIA KLINE

ABSTRACT

Illinois produced 81,131,000 barrels of oil in 1955, an increase of 21 percent over the 1954 total, marking the second consecutive year of increased production after a 13-year decline. Increased secondary recovery by waterflooding, a high rate of drilling, high initial productions of some new wells, and widespread use of hydraulic fracture treatment of wells, were contributing factors. The 3,885 wells completed in 1955 represent an increase of about 20 percent in drilling over that of 1954. Fifty-five percent were successful completions. Thirty-two new oil pools, three gas pools, 85 extensions, and 36 new pays were discovered in 1955.

The greatest activity was in southeastern Illinois. Details of production and development are discussed by counties, with special attention to noteworthy areas. Reserves are estimated at 701.3 million barrels.

INTRODUCTION

An account of developments in the oil and gas industry in Illinois during 1955, which appeared in brief in "Statistics of Oil and Gas Development and Production," issued annually by the American Institute of Mining, Metallurgical, and Petroleum Engineers, is herein expanded to provide a more detailed discussion of the Illinois petroleum industry. Developments are discussed by county, with special attention given to noteworthy areas.

We gratefully acknowledge the cooperation of the many oil companies and individuals who contributed the basic data for this report. The section on estimated petroleum reserves was prepared by Lester L. Whiting and Margaret Oros of the Illinois State Geological Survey's Oil and Gas Division; that on gas and gas products by Whiting and Wayne F. Meents of the same division; that on secondary recovery by Paul A. Wither- spoon of the Petroleum Engineering Division; and that on the oil-producing strata of Illinois by D. H. Swann of the Stratigraphy and Areal Geology Division. Jacob Van Den Berg and Kenneth R. Larson, both of the Survey staff, also assisted in preparing the report.

PRODUCTION AND VALUE

Oil production in Illinois in 1955 increased to 81,131,000 barrels, 21 percent more than in 1954. Peak production was attained in 1940, after which production gradually declined, reaching a low of 59,025,000 barrels in 1953. In 1954 the trend was reversed. A 13.4 percent increase was shown in that year, followed by the 21 percent increase in 1955 (fig. 1 and table 1).

An analysis of production figures for counties reporting big production gains shows two major factors involved. The first of these, secondary recovery by waterflooding, is alone responsible for the combined increase of 3,677,000 barrels of oil reported by Fayette and Marion counties in spite of a decrease in drilling in those counties. Waterflooding was especially successful in the Lou- den and Salem Consolidated pools.

The second factor, increased drilling, showed up in the statistics of seven other counties (Bond, Christian, Gallatin, Hamilton, Jasper, Lawrence, and Saline) where increases in production ranging from approximately $\frac{1}{2}$ million to $3\frac{1}{4}$ million barrels added an additional $8\frac{1}{4}$ million barrels to their production. Six of the seven counties had exceptionally heavy drilling in 1955, with large numbers of new producing wells.

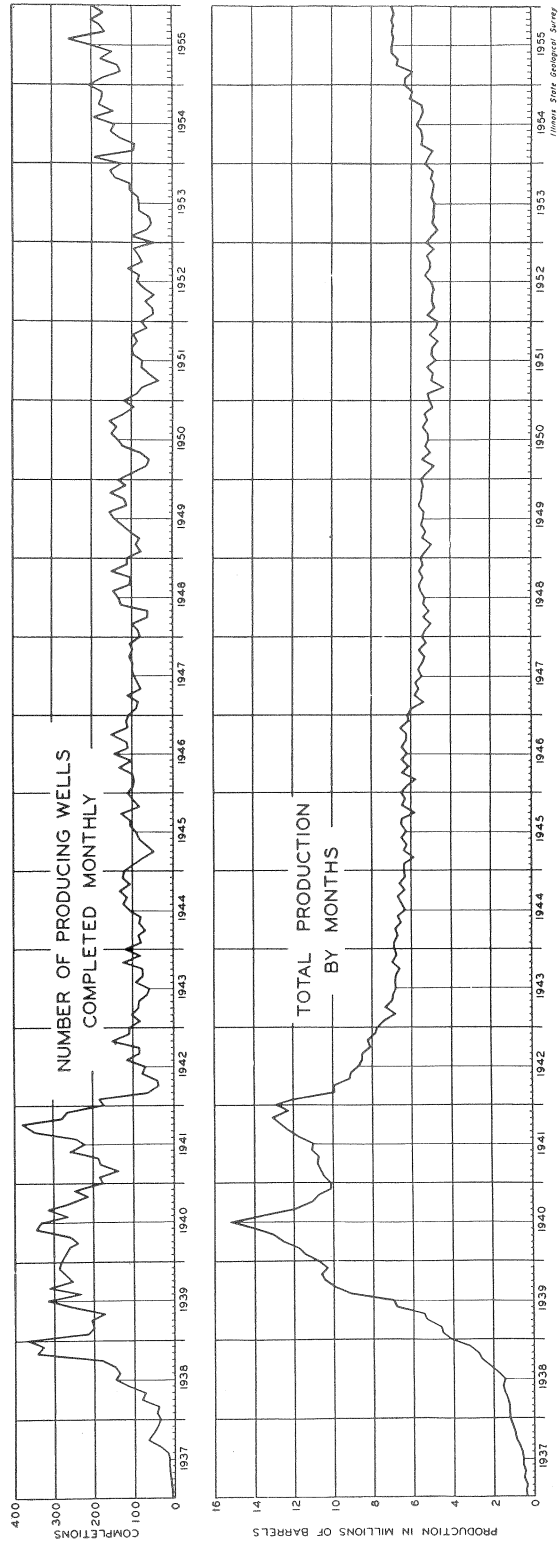


FIG. 1.—Oil production in Illinois, 1937-1955.

TABLE 1.—ILLINOIS COMPLETIONS AND PRODUCTION SINCE JANUARY 1, 1936

Year	Number of completions ^a	Number of producing wells	Production (M bbls.)		
			New fields	Old fields ^b	Total ^c
1936	93	52			4,445
1937	449	292	2,884	4,542	7,426
1938	2,536	2,010	19,771	4,304	24,075
1939	3,617	2,970	90,908	4,004	94,912
1940	3,755	3,080	142,969	4,678	147,647
1941	3,807	2,925	128,993	5,145	134,138
1942	2,017	1,179	101,837	4,753	106,590
1943	1,791	1,090(20) ^d	77,581	4,675	82,256
1944	1,991	1,229(12)	72,946	4,467	77,413
1945	1,763	1,094(15)	70,839	4,371	75,210
1946	2,362	1,387(17)	70,174	5,123	75,297
1947	2,046	1,102(22)	61,455	5,004	66,459
1948	2,489	1,316(21)	59,623	5,185	64,808
1949	2,741	1,447(32)	58,571	5,930	64,501
1950	2,894	1,328(23)	55,794	6,234	62,028
1951	2,383	947(23)	54,147	6,097	60,244
1952	2,077	854(35)	53,727	6,344	60,071
1953	2,161	1,161(88)	51,924	7,101	59,025
1954	3,254	1,896(107)	59,130	7,810	66,940
1955					
January	303	174(2)	5,596	678	6,274
February	240	129	5,277	638	5,915
March	233	135(4)	6,011	738	6,749
April	305	182(7)	5,893	733	6,626
May	254	148(4)	6,236	742	6,978
June	357	208(8)	6,215	761	6,976
July	426	263(12)	6,106	805	6,911
August	316	170(5)	6,194	776	6,970
September	351	180(5)	6,111	810	6,921
October	378	200(7)	6,199	783	6,982
November	318	175(3)	5,948	800	6,748
December	404	200(5)	6,230	851	7,081
	3,885	2,164(62)	72,016	9,115	81,131

^aIncludes only oil and gas producers and dry holes.

^bIncludes Devonian production at Bartleso and Sandoval.

^cFrom the U. S. Bureau of Mines through 1951; 1952 through 1955 from Illinois Basin Scout Association Pipe Line Production Report.

^dFigures in parentheses refer to number of producing wells included in total that previously had been completed as dry holes.

The seventh county, Christian, had important development in 1954, resulting in the 1955 production increase.

The number of well completions in Illinois in 1955 was about 80 percent higher than in 1953 and was the second highest in Illinois history, being exceeded only in 1907 when 4,988 wells were completed. Many of the wells had exceptionally high initial productions. Several areas of Aux Vases sandstone production were opened up where many wells had initial productions of more than 500 barrels per day. In the Eldorado Consolidated pool, where a prolific Waltersburg sandstone lens was discovered near the end of

1954, wells drilled in 1955 had initial productions up to 4,500 barrels per day.

Hydraulic fracture treatment was still commonly used in well completion and in 1955 was important in maintaining the rate of production.

In 1954 production from new wells was believed to have nearly balanced the decline in production of older wells still on primary production, and waterflooding and hydraulic fracturing were credited with the increased production. In 1955, in counties with secondary recovery and a normal rate of drilling, the production rate remained about the same as in 1954, except in Fayette and Ma-

DRILLING BY COUNTIES

Madison	34	4	0	15	8	7	48	0	2,235	21,317
Marion	92	52	0	21	12	7	4,942	0	130,883	232,484
Mercer	2	0	0	0	0	2	0	0	0	1,920
Monroe	1	0	0	1	0	0	0	0	0	2,768
Montgomery	15	0	0	4	2	9	0	0	0	18,539
Morgan	7	0	0	3	0	3	0	1.124	318	3,367
Moultrie	9	4	0	2	0	3	109	0	9,317	23,039
Perry	13	0	0	0	0	13	0	0	0	22,652
Piatt	1	0	0	0	0	1	0	0	0	2,420
Pike	10	0	5	0	0	5	0	12.053	2,332	6,090
Pope	1	0	0	0	0	1	0	0	0	800
Randolph	10	3	0	0	2	5	303	0	6,168	18,647
Richland	113	78	0	26	9	0	7,316	0	223,837	337,216
St. Clair	16	1	0	1	0	14	8	0	411	23,658
Saline	355	192	1	87	53	22	80,475	1,000	455,601	925,890
Sangamon	49	7	0	9	17	16	1,021	0	12,144	85,449
Schuyler	3	0	0	0	0	3	0	0	0	2,623
Shelby	4	0	0	0	0	4	0	0	0	8,715
Union	1	0	0	0	0	1	0	0	0	621
Vermilion	1	0	0	0	0	1	0	0	0	1,539
Wabash	144	73	0	61	10	0	5,970	0	153,825	322,700
Washington	131	67	0	27	26	11	3,696	0	96,816	211,360
Wayne	252	166	0	65	17	4	19,748	0	525,901	818,864
White	478	304	0	142	28	4	35,123	0	879,503	1,440,340
Williamson	15	0	0	1	0	14	0	0	0	40,191
Total	3,885	2,084	18	1,047	429	307	291,226	58,954	5,025,624	9,262,181

^aDoes not include input wells, salt water disposal wells, or old wells worked over.

^bWells drilled between one-half mile and two miles from production.

^cWells drilled more than two miles from production.

tion counties, which showed an increase in production. Counties and pools with big increases in drilling had increases in production amounting to about three-fourths of the total increase for the state.

Illinois continued to rank eighth in oil production in the United States in 1955, although it moved into seventh place several times for short intervals. Daily average production increased throughout the first six months, and then leveled off as shown in the following summary by months:

<i>Month</i>	<i>Barrels</i>
January	202,000
February	211,000
March	218,000
April	221,000
May	225,000
June	233,000
July	223,000
August	225,000
September	231,000
October	225,000
November	225,000
December	228,000

At the beginning of 1955, most crude oil in Illinois was selling at \$2.95 a barrel. In March there was a price reduction of 5 cents per barrel. In October the price was increased to \$3.00, remaining at that figure throughout the remainder of the year. Value (at the wells) of crude oil produced in 1955 was about \$238,000,000. To this should be added the value of natural gasoline and liquefied petroleum gas extracted from Illinois natural gas, estimated at \$4,500,000, making a total of \$242,500,000.

DRILLING AND DEVELOPMENT

A total of 3,885* wells were drilled for oil and gas in Illinois in 1955 (tables 1 and 2), an increase of about 20 percent over the 3,254 wells drilled during 1954. Of the 3,885 wells completed, 2,084 were oil wells and 18 were shut-in gas wells. This is about the same percentage (55 percent) of successful completions as in 1954. In 1952 only 38 percent were successful.

There were 1,047 dry holes in pools, and 736 unsuccessful wildcats in 1955. The per-

*Well-completion figures are based on reports received through the Illinois Basin Scout Association. An undetermined number of additional wells were completed in the old fields of Clark, Crawford, Lawrence, and adjoining counties, for the most part in waterflood areas.

centage of wildcat wells drilled showed a slight increase to 22 compared with 21 in 1954, but still was considerably below the 1952 figure of 32 percent.

POOL DEVELOPMENT

Wells were drilled for oil or gas in 60 counties in 1955; 59 counties reported wildcat wells, but only 42 had pool wells. Over a third of all drilling was concentrated in four counties. White County, with 478 wells drilled, remained in first place. Saline County, ranking second with 355 completions, showed the biggest increase in drilling of any county. It had never previously placed among the half dozen most active counties. Lawrence County also recorded a big increase in drilling to place third.

One of the biggest decreases in drilling was in Wayne County, which dropped to fourth place after several years of being either first or second. Clay and Wabash counties also recorded major decreases in drilling in contrast to the increase for the entire state.

The first successful wells ever drilled in Douglas and Adams counties were completed during the year. A small oil well completed in Douglas County was the discovery well of the Murdock pool, and a shut-in gas well was drilled in Adams County in the Fishhook gas pool; the rest of the pool is in Pike County.

During 1953 and 1954, drilling in the state moved northward. One of the outstanding developments of this period was in the Decatur-Mt. Auburn-Springfield area. Exploration in the Macon-Christian-Sangamon County area continued into 1955, and five new pools were discovered, four in Christian County and one in Sangamon County. Only one of these, Kincaid South, appeared promising. Results of drilling were disappointing, and the rate of drilling decreased within a few months so that Macon and Christian counties had only about half as many completions in 1955 as in 1954. Sangamon, Moultrie, and Douglas counties showed big increases in drilling but with unsatisfactory results.

At the end of 1955, development had begun in three northern areas that showed promise. In Christian County the Kincaid South pool, discovered in November 1955,

had 10 producing wells completed and others drilling. The producing wells were scattered over an area of almost a square mile, and there were no dry holes.

In Coles County the Cooks Mills pool was discovered in 1941 and Cooks Mills North in 1946, but both were abandoned. In 1954, however, Cooks Mills East was discovered, and in 1955 Cooks Mills Gas. By the end of 1955 oil and gas wells were scattered throughout an area about $3\frac{1}{2}$ miles long by 1 mile wide, and development was progressing rapidly. Most of the gas was in the Cypress sandstone and the oil in the Rosiclare.

The third northern area was around Oak Point in Clark County. The Oak Point pool was discovered in 1952 and almost immediately abandoned as a one-well Pennsylvanian sandstone pool. In 1955 Aux Vases sandstone production was discovered in the Oak Point pool, followed by discovery of the Oak Point West pool, and by the end of the year a big development program was in progress.

On the western side of the Illinois basin, attempts to extend Devonian-Silurian production southward from Christian County resulted in four new Devonian or Silurian pools in Bond and Washington counties and opened up good Devonian sandstone extensions to the Sorrento and Woburn Consolidated pools. Both pools previously had had smaller Devonian wells. Results of the search for deep production in Bond, Clinton, and Washington counties were promising enough to warrant continuing exploratory drilling in 1956.

Most important event of the year was the development in the Eldorado area on the southern edge of the basin. This is discussed in detail below.

Within the deeper part of the basin the most important development was the discovery and drilling of a Salem limestone pay in the Jasper County portion of the Clay City Consolidated pool. About 50 good Salem wells were completed, most of them on leases already producing from the Rosiclare or McClosky.

Pools having the greatest number of producing wells completed during the year were

Clay City Consolidated with 336, Lawrence with 157, Eldorado with 151, and Main Consolidated with 119.

Depth of producing wells drilled during 1955 varied from about 400 feet to about 4,000 feet, with an average depth of 2,320 feet. Average depth of all wells drilled in 1955 was 2,385 feet.

In fields discovered since January 1, 1937, 21,290 wells were producing oil or gas at the end of 1955; in older fields the number was approximately 9,175. Illinois thus had about 30,460 wells producing at the end of 1955.

ELDORADO AREA

The Eldorado pool was discovered in 1941 north of the town of Eldorado in northernmost Saline County. Two producing wells were completed in 1941, one in the Aux Vases sandstone and one in the McClosky limestone. The McClosky well was later opened up in the Tar Springs sandstone.

A third well was drilled in 1950, adding a fourth pay, the Palestine, to the pool. Annual production from 1941 through 1952 was between 1,000 and 3,000 barrels.

In 1953 a period of exploration and drilling began that culminated late in 1955. Fifteen wells were drilled in 1953, all of them north of the town of Eldorado. Production, all of which was from the Hardinsburg and Aux Vases sandstones, increased to 92,000 barrels for the year. East of the town, the Eldorado East pool was discovered, and at the end of 1953 it had three Aux Vases wells and had produced 14,000 barrels of oil.

In 1954 the Eldorado Central pool was discovered in the Beulah Heights area on the west side of the town of Eldorado. The Eldorado and Eldorado Central pools grew together rapidly and were consolidated before the end of the year.

The Eldorado North pool also was discovered in 1954 about three miles northeast of town, and four small wells were completed in the Waltersburg sandstone. Several small Waltersburg wells also were drilled on the southeast edge of the northward-trending Eldorado Consolidated pool.

In December 1954 two 1,100-barrel Waltersburg wells were completed, one in the eastern part of town and the other about halfway between town and the Eldorado North pool.

The combined 1954 production of Eldorado Consolidated and Eldorado North was 463,000 barrels. By the end of the year 55 producing wells had been completed in the two pools.

During the early part of 1955, drilling was concentrated in the area between the town of Eldorado and the Eldorado North pool, which was soon joined to Eldorado Consolidated. Most of the wells produced from a Waltersburg sandstone lens that trends west-southwest and is about four miles long, three-fourths of a mile in maximum width, and in places more than 50 feet thick. Oil or gas wells drilled in the Waltersburg totaled 122.

Twenty-seven wells were completed in other pays, most of them in the northward-trending older part of Eldorado Consolidated, and a few along the edges of the Waltersburg lens. Eight other pays produce in the pool. Next to the Waltersburg, the Aux Vases pay produces in the most wells of the Eldorado Consolidated pool. The other producing pays in the pool include the Palestine, Tar Springs, Cypress, Paint Creek, Ohara, Rosiclare, and McClosky.

The Waltersburg lens in the Eldorado Consolidated pool is a gas-cap pool. The first wells drilled had very high gas-oil ratios. Early in March 1955 about 55,000,000 cubic feet of gas was being produced daily, almost all of which was flared. Gas production declined rapidly, and by the end of 1955 it was down to about 10,000,000 cubic feet per day.

Variations in initial production of oil wells in the Eldorado Consolidated pool were great; although some of the wells were small, many produced more than 500 barrels daily, and the best one was reported as having made 4,500 barrels initially. The Eldorado Consolidated pool reached its peak production of about 20,000 barrels per day in May.

Production for 1955 was 3,523,000 barrels, compared with a total of 551,000 barrels for the previous 14 years.

In the Eldorado area the first half of 1955 was primarily a period of pool development drilling, the second half one of exploratory drilling. The Waltersburg lens is a southwest extension of the previously discovered Waltersburg production area in the Roland Consolidated pool, about a mile west of Omaha in the Gallatin County part of the pool. Much of the exploratory drilling in 1955 was "trend" drilling, attempting to discover a possible westward continuation of the Waltersburg sandstone from Roland Consolidated through Eldorado Consolidated into untested areas. In July two new pools were discovered, in August one pool, in September three, and in December two. In addition to these eight new pools, oil was discovered in the one-well Harrisburg gas pool, and eight Waltersburg and one Tar Springs oil wells were drilled before the end of 1955. All production, old and new, in the Eldorado area is from Mississippian formations.

By the end of 1955, the Waltersburg sandstone lens of the Eldorado Consolidated pool was drilled up. Only two of the new pools, Harco East and Raleigh South, promised to be better than two- or three-well pools. Drilling in the area dropped off and production declined as the high initial production of wells drilled in the spring leveled off into settled production. Production and drilling rates in 1956, although continuing higher than normal in the Eldorado area, should be much lower than in 1955.

EXPLORATORY DRILLING AND DISCOVERIES

Wildcat wells were drilled in 59 counties in 1955; new pools were discovered in 19. Eight of the new pools are in Saline County, four in Christian, and four in Washington.

Of the 3,885 wells drilled in 1955, 846, or about 21.8 percent, were wildcats. The 324 wildcat wells drilled more than 2 miles from production (table 3) discovered 17 new pools, or 1 in 19 successful (5.2 percent). All of these 17 new pools, however, appear to

be very small. The 522 wildcats drilled less than 2 miles from production discovered 15 new pools and 78 extensions to pools, or were about one in $5\frac{1}{2}$ (17.8 percent) successful. Three new pools and seven extensions were discovered by reworking wildcat wells that previously had been completed as dry holes. None of the 10 workover wells was deepened.

TABLE 3.—WILDCAT WELLS DRILLED IN 1955

	Number	Producers	Percentage successful
Wildcat near ^a . . .	522	93	17.8
Wildcat far ^b . . .	324	17	5.2
Total.	846	110*	13.0

^aFrom $\frac{1}{2}$ to 2 miles from production.

^bMore than two miles from production.

*Three of the discovery wells listed in table 4 and seven of those in table 5 originally were completed as dry holes and later worked over.

Thirty-two new oil and three new gas pools (table 4 and fig. 2), 85 extensions to pools (table 5), and 36 new pays in pools in 34 wells (table 6) were discovered during 1955. One new pool, Cooks Mills Gas, was lost during the year by consolidation with Cooks Mills Consolidated. In the remaining 34 new pools, seven nonoperated gas wells and 65 oil wells had been completed by the end of the year. Twelve of the oil wells were in Exchange East, largest of the new pools. Kincaid South, which was not discovered until November, had 10 wells by the end of December and seemed to be best of the 1955 pools. The Fishhook Gas pool had six shut-in gas wells and Raleigh South had six oil wells. The other new pools had from one to three wells each.

It was noted in 1954 that most of the new pools were around the margins of the producing area. Most of the 1955 new pool discoveries also are marginal, showing the influence of 1954 discoveries and development. Nine, or one-fourth, of the new pools are in Saline and Gallatin counties around the Eldorado Consolidated pool. To the northwest, five new pools in Christian and Sangamon

counties are the result of exploration around the Mt. Auburn-Edinburg West area, development of which was the outstanding feature of 1954 drilling.

Four of the new pools lie along the northeast margin, including Murdock, the first Douglas County pool. On the east edge of the producing area, Lawrence County had two new pools, and on the west, Washington, Bond, Madison, and St. Clair counties had seven. Pike County, even more remote, had one gas discovery. Only a half dozen new pools were within the highly productive area of the state.

Two new pools, Murdock in Douglas County and Redmon North Gas in Edgar County, produce from the Pennsylvanian. Each is a one-well pool.

Ten new oil pools and one gas pool, all lying in a western belt extending from Christian through Washington County, produce from the Silurian or Devonian. Twelve pools produce from upper Mississippian sandstone, and 10 from the lower Mississippian.

One well in the Loudon pool was deepened to the Trenton limestone and is producing a little oil. No other new Trenton production was discovered during the year.

One 1955 well in the Gays pool (Moultrie County) was completed in the Aux Vases and Devonian, the Devonian being a new pay in the pool. The remaining 34 new pays are Mississippian in age.

Unsuccessful Trenton tests were made in the Sorento, Carlinville, and Okawville pools. A selected list of important unsuccessful deep tests and wildcats is given in table 7. One shallow wildcat in Union County is listed because it was reported as having the first good oil show in the county.

No gravity meter or magnetometer work was done in Illinois in 1955. Data on geophysical and core-drilling crews operating throughout the year, by months and methods, is given in table 8.

A generalized geologic column for the southern Illinois oil region, indicating principal producing strata, is shown in figure 3.

TABLE 4.—DISCOVERY WELLS OF NEW POOLS, 1955

Pool	County	Company and farm	Location	Total depth (ft.)	Producing formation	Depth to top (ft.)	Initial production ^a (bbls.)	Date of completion	No. wells producing in pool 12/31/55
Albion Central	Edwards	J. J. Oslager # 1 P. Potter	4-2S-10E	3384	Ohara	3314	62	12-31	3
Boulder East	Clinton	Hamil Oil # 1 Wortman	27-3N-1W	2856	Devonian	2850	260	11-15	1
Centerville North-east.	White	G. S. Engle # 1 Casebier	19-3S-10E	3381; PB 3070	Bethel	3053	15; 50	12-6	1
Cooks Mills Gas ^b	Coles	M. & E. Drlg. Co. # 1 W. Young	26-14N-7E	1840; PB 1620	Cypress	1609	7,748,000 cu. ft.	7-5	b
Cottage Grove	Saline	J. Stelle & Assoc. # 1 M. Fox	10-9S-7E	2977; PB 2800	Ohara	2769	60	8-30	1
Edinburg South	Christian	L. G. Ewart # 1 N. C. Davis	26-14N-3W	1809	Hibbard (Dev.)	1796	85	12-8	1
Elba	Gallatin	Ervin Drlg. Co. # 1 H. L. Logan	22-8S-8E	2803; PB 2700	Bethel	2660	30; 50	7-19	3
Eldorado West	Saline	Shure Oil # 1 J. C. Baker	14-8S-6E	2991; PB 2968	Aux Vases	2950	90; 80	9-13	2
Elkton	Washington	O. Minton # 1 J. Palek	32-2S-4W	2408	Devonian	2364	6; 2	3-8	2
Exchange East	Marion	Union Contract. # 1 E. F. Hawkins	29-1N-4E	2919	McClosky	2908	100	1-11	12
Fishhook	Pike	W. Vette # 1 K. Layne	30-3S-4W	462	Silurian	435	1,140,000 cu. ft.	4-11	6
Francis Mills South	Saline	C. W. Scott # 1 O. Carter	32-7S-7E	3150; PB 3030	Ohara	3011	164	12-13	1
Freeburg South	St. Clair	A. W. Cherry # 2 E. Behrens	33-1S-7W	411	Cypress	384	8; 11	8-2	1
Glenarm	Sangamon	R. W. Schneider et al. # 1 J. Warrington	24-14N-5W	1720; PB 1695	Silurian	1653	11; 15	6-21	1
Harco East	Saline	Sun Oil # 1 G. O. Upton	25-8S-5E	3031; PB 3000	Ohara	2882	120	9-20	2
Harrisburg South	Saline	E. E. Goad # 2 F. P. Parker	15-9S-6E	2352	Cypress	2301	5; 25	12-6	1
Hoyleton West	Washington	W. Duncan # 1 Ben Huck	16-1S-2W	2965; PB 2915	Devonian	2894	6; 30	6-7	1
Iuka West	Marion	R. Fletcher # 1 G. Blankenship	13-2N-3E	2801; PB 2710	McClosky	2697	7	10-11	1
Kincaid	Christian	L. McElmurray # 1 G. B. Hibbard	3-13N-3W	1805	Hibbard (Dev.)	1782	502	6-21	1
Kincaid South	Christian	J. F. Hinkle # 1 Blackstock Est.	15-13N-3W	1826	Hibbard (Dev.)	1816	416	11-1	10
Long Branch South	Saline	I. R. Lindsay # 1 S. J. Turner	4-8S-6E	3210; PB 2700	Cypress	2660	42; 1	9-27	1
Long Branch South	Saline	Sunray # 5 Sisk	15-10S-6E	2452; PB 1550	Cypress	1504	40	7-12	2
Murdock	Douglas	Gallatin Drlg. Co. # 1 John Wagner	26-16N-10E	395	Waltersburg	372	8	11-1	1
Oak Point West	Clark	Partlow & Cochonour # 1 F. Partlow	19-9N-14W	1247; PB 1206	Pennsylvanian	1192	33; 65	11-15	1
Okawville North	Washington	Sun Oil # 1 A. Duerkob	3-1S-4W	2262	Aux Vases	2234	125	7-12	1
Pinkstaff East	Lawrence	Natl. Assoc. Pet. # 1 E. Carter	10-4N-11W	1644	Silurian	1638	17; 45	12-31	1
Posen South	Washington	G. Zicos # 1 L. Dalfam	27-3S-2W	1266	McClosky	1253	48	12-31	1
Raleigh South	Saline	C. E. O'Neal # 1 Wettaw	20-8S-6E	3087; PB 2865	Benoist	2852	240	7-26	6
Redmon North	Edgar	W. W. Henigman # 1 A. C. North	15-14N-13W	450	Aux Vases	327	14,200 cu. ft.	10-18	1
Russellville West	Lawrence	W. A. Warren et al. # 1 Stevenson	36-5N-11W	1646; PB 1593	Rosiclare	1564	25; 200	10-11	1
St. Jacob East	Madison	T. S. Doran et al. # 1 Leder	12-3N-6W	2600; PB 1860	Sylamore	1842	12; 30	8-2	1
Sansville Northwest	Edwards	Skiles # 1 L. Bunting "A"	24-1N-10E	3248; PB 3210	Ohara	3190	98	1-18	1
Stubblefield South	Bond	C. E. Hoiles # 1 Schmollinger	6-4N-3W	992	Cypress	987	8; 5	9-13	1
Tovey	Christian	Pollack & Pollack # 1 Strawkas	6-13N-3W	1881; PB 1870	Silurian	1852	105	11-22	1
Wakefield South	Richland	J. W. Rudy # 1 Armstrong	27-5N-9E	3059	McClosky	3040	4; 5	10-11	1

^aOil and water.^bIncluded in Cooks Mills Consolidated.

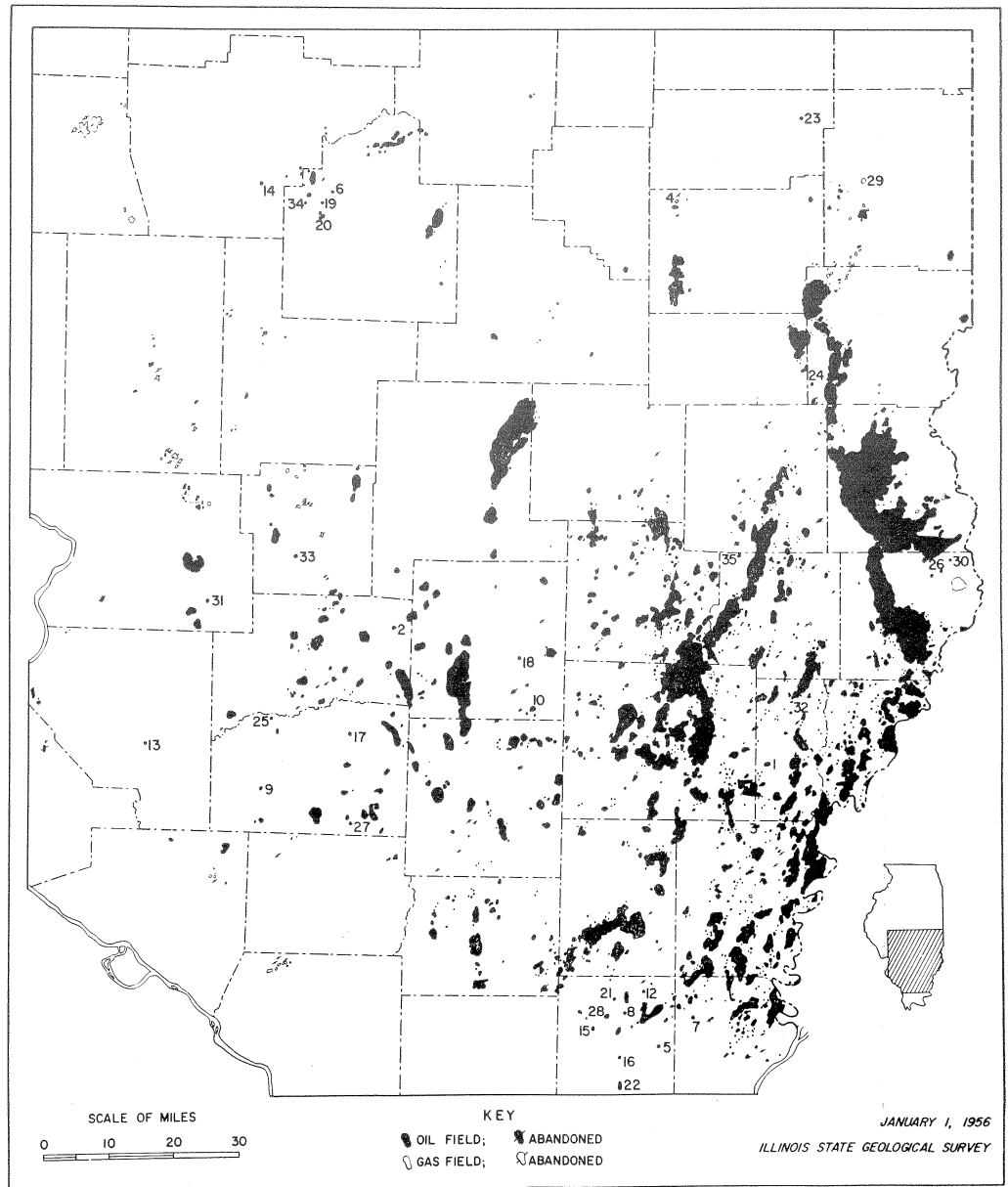


FIG. 2.—Oil pools discovered in Illinois, 1955.

- | | | |
|--------------------------|-----------------------|-------------------------|
| 1. Albion Central | 13. Freeburg South | 25. Okawville North |
| 2. Boulder East | 14. Glenarm | 26. Pinkstaff East |
| 3. Centerville Northeast | 15. Harco East | 27. Posen South |
| 4. Cooks Mills Gas | 16. Harrisburg South | 28. Raleigh South |
| 5. Cottage Grove | 17. Hoyleton West | 29. Redmon North |
| 6. Edinburg South | 18. Iuka West | 30. Russellville West |
| 7. Elba | 19. Kincaid | 31. St. Jacob East |
| 8. Eldorado West | 20. Kincaid South | 32. Samsville Northwest |
| 9. Elkton | 21. Long Branch South | 33. Stubblefield South |
| 10. Exchange East | 22. Mitchellsville | 34. Tovey |
| 11. Fishhook | 23. Murdock | 35. Wakefield South |
| 12. Francis Mills South | 24. Oak Point West | |

TABLE 5.—DISCOVERY WELLS OF EXTENSIONS TO POOLS, 1955

Pool	County	Company and farm	Location	Total depth (ft.)	Producing formation	Depth to top (ft.)	Initial production ^a (bbbls.)	Date of completion
Albion East.	Edwards	Herndon Drlg. # 1 L. Broster	28-2S-14W	2,998	Renault	2,922	48	12-31
Beaver Creek South	Clinton	E. J. Goldschmidt # 1 Dixon	6-3N-2W	1,149; PB 1,040	Cypress	1,005	5; 1,900 MMcf	9-27
Bone Gap Consol.	Edwards	D. Baines # 1 Colyer	11-1S-10E	3,358; PB 3,325	Rosiclare	3,314	35; 160	9-20
Cantrell Consol. ^b	Saline	Collins Bros. # 1 P. Jones	19-7S-5E	3,284	McClosky	3,274	46; 19	5-3
Cantrell Consol. ^b	Saline	C. E. Brehm # 1 Gill Comm.	30-7S-5E	3,201; PB 3,180	Aux Vases	3,148	300	7-5
Clay City Consol.	Clay	Aurora Gasoline # 1 Kimpling	36-4N-8E	3,162	McClosky	3,042	26; 18	12-13
Clay City Consol.	Clay	Partlow & Cochonour # 1 West Duff	18-3N-8E	3,040	Aux Vases; McClosky	2,908 3,023	86; 30	12-20
Clay City Consol.	Jasper	Athene Devel. # 1 St. Marie Catholic Church	27-6N-10E	2,925	St. Louis	2,857	43	12-20
Clay City Consol.	Jasper	M. L. Van Fossan # 1 R. Danforth et al.	9-5N-10E	2,823	Rosiclare	2,805	94	7-5
Clay City Consol.	Richland	J. W. Rudy # 1 J. E. Stiff	34-5N-10E	2,939	Rosiclare; McClosky	2,920; 2,932	33	8-9
Clay City Consol.	Wayne	J. M. Roberts # 1 L. E. Cockrun	15-2S-8E	3,242	Aux Vases	3,204	220; 10	8-16
Cooks Mills Consol.	Coles	W. R. & D. Kuykendall # 1 E. H. Mercer	34-14N-7E	1,844	McClosky	1,838	35	9-27
Cooks Mills East	Coles	H. Sanders # 1 Harsbarger	30-14N-8E	1,855; PB 1,831	Rosiclare	1,815	20; 24	10-25
Dale Consol.	Hamilton	O. D. Sharp # 1 Johnson	17-6S-6E	3,299; PB 3,170	Aux Vases	3,129	30; 100	11-15
Dale Consol.	Hamilton	Herndon Drlg. # 1 McPeak	16-6S-7E	3,324; PB 3,116	Aux Vases	3,104	8; 90	10-18
Dale Consol.	Saline	I. White # 1 Williams	30-7S-5E	3,200; PB 3,150	Aux Vases	3,129	85; 20	12-13
Divide	Jefferson	J. F. Dunnill # 1 J. Ellis	25-1S-3E	2,852	McClosky; St. Louis	2,752; 2,834	56	8-23
Dubois	Washington	J. Wagner # 1 Labuda	18-3S-1W	1,241	Cypress	1,230	55	8-30
Edinburg West.	Sangamon	Kaybee Oil # 2 M. Williams	12-14N-4W	1,714	Silurian	1,665	192	10-11
Edinburg West.	Sangamon	O. Krachik # 2 N. A. Smith	12-14N-4W	1,831; PB 1,752	Hibbard	1,707	204; 10	7-26
Edinburg West.	Christian	A. Valter # 1 W. Hobbs	7-14N-3W	1,780; PB 1,729	Silurian	1,705	7; 2	5-3
Eldorado Consol.	Saline	L. K. Billings # 1 Morris	18-8S-7E	2,292; PB 2,030	Palestine	1,998	90	8-30
Eldorado Consol.	Saline	Superior Oil # 2 R. G. Thomas	25-8S-6E	3,021; PB 2,090	Waltersburg	2,083	22; 33	7-12
Eldorado Consol.	Saline	H. Van Dresser # 1 H. Bramlet, Sr.	19-8S-7E	3,003; PB 2,500	Waltersburg	2,055	1; 5,000 MMcf	7-12
Eldorado Consol.	Saline	Keystone Oil # 1 F. E. Bramlet	25-8S-6E	2,895	Ohara; Rosiclare	2,862; 2,886	27; 6	10-18
Eldorado Consol.	Saline	Edens & Saltink # 1 Carter-Smith Comm.	17-8S-7E	2,237	Tar Springs	2,229	200; 20	5-10

EXTENSIONS TO POOLS

Eldorado North ^e	Saline	R. W. Portis #1 Lassater	15-8S-7E	2,637; PB 2,244	Waltersburg	720	1-18
Ellery Consol.	Wayne	Calvert #1 M. D. Carter	22-2S-9E	3,370; PB 3,257	Aux Vases	289	1-18
Ellery East	Edwards	Cullum & Lawhead #1 N. Horn	20-2S-10E	3,348; PB 3,225	Aux Vases	180; 20	6-14
Epworth Consol.	White	Pyre Oil #1 Horton	28-2S-10E	3,951; PB 3,213	Aux Vases	106; 144	11-1
Exchange East	Marion	Calvert #1 F. L. Calvert	20-5S-10E	3,240; PB 3,144	Rosiclare	25; 46	11-15
Exchange East	Marion	Perrine & Perrine #1 A. Sager	33-1N-4E	2,847	Rosiclare	180; 10	12-8
Exchange North	Marion	Gulf Refining #1 R. Meador	29-1N-4E	2,948; PB 2,927	Ohara	106	3-22
Fishhook	Adams	R. Fletcher #1 Venorsky	6-1N-4E	2,723	McClusky	2,714	12-13
		W. Walden #1 Kennedy	36-3S-5W	438	Silurian	.857	12-6
Fishhook	Pike	C. M. Faulkner #1 Whittaker	28-3S-4W	465	Silurian	MMcf	11-8
Fishhook	Pike	A. W. Neal #1 Crump	32-3S-4W	430	Silurian	MMcf	11-8
Fishhook	Pike	W. Walden #1 Fox	29-3S-4W	813; PB 550	Silurian	.280	11-8
Guys	Moultrie	Pure Oil #1 Waggoner Consol.	22-12N-6E	3,305; PB 1,996	Aux Vases	3,164	7-19
Half Moon	Wayne	Skiles #1 V. Haines et al.	26-1S-9E	3,346; PB 3,300	Ohara	MMcf	1-11
Harco	Saline	Delwood Oil #1 Lewis	15-8S-5E	3,061; PB 2,887	Aux Vases	1,962	6-21
Harrisburg	Saline	Don Foote #1 May Comm. Unit	34-8S-6E	2,147; PB 2,075	Waltersburg	205	12-13
Herald Consol.	Gallatin	Hoskins-Ward #1 Armstrong-Dagley Comm.	19-7S-10E	2,271		200	4-26
Herald Consol.	Gallatin	Collins #1 Hale	24-7S-9E	2,315	Tar Springs	18	8-30
Herald Consol.	Gallatin	Texas #1 M. Sanders	30-7S-10E	2,985; PB 2,838	Tar Springs	136	7-19
Herald Consol.	Gallatin	Clark & Clark #1 G. Edwards	25-7S-9E	2,926	Aux Vases	48; 58	1-11
Herald Consol.	White	Southern Oil Devel. #1 H. G. Pearce	29-6S-9E	3,220; PB 2,971	Aux Vases	20; 19	10-4
Herald Consol.	White	Herndon #1 J. Sparrow	17-7S-10E	2,984; PB 2,850	Bethel	25	11-8
Hill East	Efingham	Partlow & Cochonour #1 A. M. Woody	12-6N-6E	2,825; PB 2,480	Aux Vases	100; 110	6-7
Hill East	Efingham	Reiss & Coslett #1 Gaddy	1-6N-6E	2,468	Cypress	3	1-25
Hill East	Efingham	Partlow & Cochonour #1 Richards	13-6N-6E	2,471	Cypress	126; 10	4-5
Huey South	Clinton	Schiermann & Imming #1 Park Comm.	31-2N-2W	2,605; PB 1,050	Cypress	80; 125	5-24
Inman West Consol.	Gallatin	First Nat'l. Pet. Trust #1 Moye	3-8S-9E	2,935; PB 2,890	Aux Vases	23	12-13
Iola Consol.	Clay	A. A. Richey #1 Gen. Am. Life Ins. Co.	13-5N-5E	2,453; PB 2,430	Rosiclare	114	8-16
Irvington East	Jefferson	L. Kapp #1 Hays	31-1S-1E	1,990	Benoist	513	5-31
Johnsonville North	Wayne	Sun Drlg. #1 C. C. Howe	3-1N-6E	3,314; PB 3,265	Rosiclare	5; 80	8-23
Johnsonville West	Wayne	E. E. Spencer #1 H. Henson	14-1N-5E	3,069; PB 2,970	Ohara	95; 30	8-23
Junction	Gallatin	Skiles Oil #1 Peoples	10-9S-9E	2,818	Cypress;	78; 4	9-13
Junction North	Gallatin	G. S. Engle #1 E. Maloney	35-8S-9E	2,983; PB 2,875	McClusky	22; 16	11-29
Main Consol.	Crawford	R. Lowry #1 Duncan	4-5N-11W	938	Rosiclare	88; 14	4-26
Main Consol.	Crawford	J. G. Beard #1 Schaffner	21-8N-13W	1,353; PB 807	Pennsylvania	75; 19	8-30
					Pennsylvania	10; 5	8-30

TABLE 5.—(Continued)

Pool	County	Company and farm	Location	Total depth (ft.)	Producing formation	Depth to top (ft.)	Initial production ^a (bbls.)	Date of com- pletion
Main Consol.	Crawford	W. Montgomery #1 Dart et al.	1-6N-14W	1,943	McClosky	1,936	50; 2	7-12
Mattoon	Coles	Partlow & Coconour #1 Scott	6-11N-8E	1,901	Cypress	1,893	11	9-27
Mitchellville	Saline	W. W. Misener #1 T. Svers	3-10S-6E	2,376; PB 1,350	Dygonia	1,328	25; 10	10-25
Mt. Auburn Consol.	Christian	E. Gallagher #1 C. R. Osbern "A"	10-15N-1W	1,882	Silurian	1,860	38; 17	1-25
Oak Point	Clark	M & E Drig. #1 Flint	31-9N-14W	1,609; PB 1,208	Aux Vases	1,191	70; 15	9-6
Old Ripley	Bond	Paul Andrews #1 D. Wall	16-5N-4W	788	Pennsylvanian	774	10; 12	4-12
Olney Consol.	Richland	Athene Devel. #1 W. S. Jennings	16-4N-10E	3,018	McClosky	3,010	90	12-6
Omaha	Gallatin	Atlas Drig. #1 G. West	28-7S-8E	2,942; PB 2,770	Aux Vases	2,740	21	4-26
Omaha East	Gallatin	C. L. Lauderdale #1 H. Rogers	1-8S-8E	2,937; PB 2,860	Aux Vases	2,790	37	9-20
Omaha South	Gallatin	Nat'l. Assoc. Pet. #1 E. Woolard	12-8S-7E	3,010; PB 2,895	Aux Vases	2,871	36; 22	4-26
Passport South	Saline	Cullum & Lawhead #1 Jorgenson	13-4N-8E	3,692; PB 3,046	McClosky	3,030	38; 26	6-7
Phillipstown Consol.	Clay	C. C. Beebe #1 Millar	7-3S-14W	3,135; PB 3,105	Rosiclare	3,098	135	7-26
Phillipstown Consol.	Edwards	New Illinois-Mid Continent #1 V. Jacobs	8-3S-14W	3,226; PB 3,190	Aux Vases; Rosiclare	3,076	105; 15	12-20
Ridgway	Gallatin	W. C. Heppard #1 Kanady et al.	24-8S-8E	1,760	Palestine	1,730	20; 40	6-28
Sailor Springs Consol.	Clay	W. Duncan #1 Gould Hrs. Comm.	15-5N-7E	2,526	Cypress	2,500	39	8-9
Sailor Springs Consol.	Clay	Shulman Bros. #1 Duff	7-3N-8E	3,002	Rosiclare	2,998	15; 450	1-25
Sailor Springs East	Clay	T. R. Lindsay #1 Anderson-Payne Unit	28-4N-8E	3,032	McClosky	3,021	40	8-16
Shawneetown East	Gallatin	Vandenbark-McGuire #1 Hall-Clay- ton	22-9S-10E	2,727; PB 2,525	Bethel	2,481	23; 48	1-11
Shawneetown East	Gallatin	Vandenbark-McGuire #1 Wiederhold	28-9S-10E	2,730; PB 1,870	Waltersburg	1,856	5; 15	5-17
Shawneetown North	Gallatin	Sun Oil #1 L. Miller	7-9S-10E	2,764	Aux Vases	2,751	33	6-28
Thackeray	Hamilton	Calstar Pet. #1 W. B. Stephens	16-5S-7E	3,055	Cypress	3,028	30	7-5
Thompsonville East	Franklin	C. E. Brehm #1 Pulverman et al.	11-7S-4E	3,376; PB 3,230	Aux Vases	3,199	170	12-13
Toliver East	Clay	Texas #1 Willison	25-5N-6E	2,965; PB 2,540	Cypress	2,512	6; 13	11-8
Woburn Consol.	Bond	Hoiles Pet. #1 Folkers-Nobbe	27-7N-2W	2,400; PB 2,380	Devonian	2,341	35	12-20

^aOil and water.^bNow included in Dale Consol.^cNow included in Eldorado Consol.

TABLE 6.—DISCOVERY WELLS OF NEW PRODUCING ZONES IN POOLS, 1955

Pool	County	Company and farm	Location	Total depth (ft.)	Producing formation	Depth to top (ft.)	Initial production ^a (bbbls.)	Date of completion
Cooks Mills	Coles	W. R. & D. Knykendall #1 E. H. Mercer	34-14N-7E	1,844	McClosky	1,838	35	9-27
Cooks Mills East	Coles	H. C. Sanders #1 Holliday	25-14N-7E	1,850; PB 1,800	Aux Vases	1,739	20; 7 ^b	3-1
Divide	Jefferson	J. F. Dunnill #1 J. Ellis	25-15-3E	2,852	St. Louis	2,834	56 ^b	8-23
Dubois Central	Washington	Ohio Oil #1 Dubois Comm.	33-3S-1W	1,551; PB 1,360	Benoist	1,334	14; 100	7-12
Elba	Gallatin	Ervin Drlg. #2 H. L. Logan	22-8S-8E	2,840	Ohara	2,825	80; 20	12-6
Eldorado North ^e	Saline	W. C. McBride #1 E. Glascock	10-8S-7E	2,583	Cypress	2,573	280	3-29
Eldorado North ^e	Saline	W. C. McBride #1 G. Boscarine	10-8S-7E	2,608; PB 2,240	Tar Springs	2,223	20; 130	3-29
Eldorado West	Saline	Shure Oil #1 J. C. Baker	14-8S-6E	2,990; PB 2,920	Renault	2,908	25; 20	10-18
Exchange East	Marion	Gulf Refining #1 R. Meador	29-1N-4E	2,948	Ohara	2,774	106	3-22
Exchange East	Marion	Union Contract. #1 Vera	32-1N-4E	2,952	St. Louis	2,943	28	4-5
Gays	Moultrie	Nat'l. Assoc. Pet. #1 I. F. Garrett	21-12N-6E	3,296	Devonian	3,204	40; 62 ^b	3-1
Harco East	Saline	Sun Oil #1 J. Reynolds	26-8S-5E	2,960; PB 2,575	Cypress	2,554	50	11-29
Harrisburg	Saline	Don Foote #1 May Comm. Unit	34-8S-6E	2,147; PB 2,075	Waltersburg	2,045	112	4-26
Hill East	Effingham	Partlow & Cochour #1 A. M. Woody						
Irvington East	Jefferson	Mutual Oil & Gas #1 J. A. Wacker	12-6N-6E	2,825; PB 2,480	Cypress	2,459	25; 40	1-25
Irvington East	Jefferson	J. L. McManamy #1 L. D. Miller	30-15-1E	1,782	Cypress	1,770	74; 4	4-26
Junction	Gallatin	Skiles Oil #1 Peeples	30-15-1E	1,956	Benoist	1,934	163	5-24
Junction North	Gallatin	G. S. Engle #1 E. Maloney	10-9S-9E	2,818	McClosky	2,732	22; 16 ^b	11-29
Louden	Fayette	Carter #7-T. I. Boles	35-8S-9E	2,983; PB 2,875	Rosiclare	2,865	88; 14	4-26
Louden	Fayette	S. Kluzek & P. Gentile #1 M. St. Pierre	21-8N-3E	4,126; PB 3,922	Trenton	3,904	21; 400	11-22
Mattoon	Coles	H. J. Adams et al. #6 M. B. Herkimer	26-9N-3E	1,803; PB 1,790	McClosky	1,785	12; 6	10-18
Mitchellsville	Saline	W. W. Misener #1 T. Svers	11-12N-7E	3,188; PB 2,970	Carper	2,950	20; 70	7-19
Oak Point	Clark	M. & E. Drlg. #1 Flint	3-10S-6E	2,376; PB 1,350	Degonia	1,328	25; 10	10-25
Omaha	Gallatin	Atlas Drlg. #1 G. West	31-9N-14W	1,609; PB 1,208	Aux Vases	1,191	70; 15	9-6
Omaha	Gallatin	Murvin & Steber #1 Utley	28-7S-8E	2,942; PB 2,770	Aux Vases	2,740	21	4-26
Omaha South	Saline	Nat'l. Assoc. Pet. #1 E. Woolard	34-7S-8E	3,010; PB 2,895	Bethel	2,571	15; 3 ^b	5-31
Ridgway	Gallatin	W. C. Heppard #1 Kanady et al.	12-8S-7E	1,760	Aux Vases	2,871	36; 22	4-26
Roland Consol.	Gallatin	W. C. McBride #2 S. Moore	24-8S-8E	2,967; PB 2,950	Palestine	1,730	20; 40	6-28
Sailor Springs East	Clay	T. R. Lindsay #1 Anderson-Payne Unit	24-7S-8E		Golconda	2,506	36 ^d	1-18
Shawneetown	Gallatin	H. D. Atha #1 T. O. Logsden	28-4N-8E 13-9S-9E	3,032 2,715; PB 2,065	McClosky Palestine Waltersburg Tar Springs	3,021 1,720 1,902 1,959	40 120; 35 ^d	8-16 11-22
Shawneetown East	Gallatin	Vandenbark-McGuire #1 Hall-Clayton	22-9S-10E	2,727; PB 2,525	Bethel	2,481	23; 48	1-11
Shawneetown East	Gallatin	Vandenbark-McGuire #1 Wiederhold	28-9S-10E	2,730; PB 1,870	Waltersburg	1,856	5; 15	5-17
Shawneetown North	Gallatin	Sun Oil #1 L. Miller	7-9S-10E	2,764	Aux Vases	2,751	33	6-28
Toliver East	Clay	Texas #1 Willison	25-5N-6E	2,960; PB 2,540	Cypress	2,512	6; 13	11-8

^aOil and water.

^bProducing from 2 pays.

^cNow included in Eldorado Consolidated.

^dProducing from 3 pays.

TABLE 7.—SELECTED LIST OF DRY TESTS, 1955

Line no.	Pool	County	Company and farm	Location	Total depth (ft.)	Deepest formation	Depth to top (ft.)	Date of completion
1	Sorento	Adams	A. W. Neal #1 Perry	15-1N-5W	873	Trenton	747	9-27
2	Old Ripley*	Bond	Neary & Cahill #4 Roby-Griffith	16-6N-4W	2,680	Trenton	2,608	12-13
3		Bond	C. Bassett #2 S. Parker	22-5N-4W	2,221	Devonian	2,161	9-13
4		Champaign	S. D. Tate #1 G. L. Raymond	4-17N-10E	1,808	Trenton	1,720	3-15
5		Coles	H. C. Sanders #1 Huffman	19-14N-8E	3,960	Trenton	3,797	8-9
6	Grandview	Edgar	M. L. Livingood #1 Babcock	4-12N-13W	1,620	Devonian	1,565	12-6
7		Johnson	Shure Oil #1 Evans	10-11S-4E	2,238	St. Genevieve	1,803	11-22
8	Carlinsville	Macoupin	Calvert Drilg. #1 L. Loveless	8-9N-7W	1,949	Trenton	1,836	4-19
9		Macoupin	G. & M. Bryant #1 Menke	12-7N-7W	2,265	Trenton	2,140	11-15
10		Macoupin	P. F. Bergsneider #1 L. R. Miller	26-12N-6W	2,252	Trenton	2,114	9-20
11		Madison	A. E. Hempen #1 Listerman	22-3N-9W	1,425	Maquoketa	1,341	7-26
12		Madison	Davis #1 Jamison	5-6N-10W	1,371	St. Peter	1,353	8-23
13	Iuka	Marion	Rochester & Goodell #1 Luttrell	11-2N-4E	4,487	Devonian	4,347	2-15
14		Massac	F. Foss #1 F. Foss	1-14S-4E	3,256	Devonian	3,073	9-6
15		Morgan	Lee Cofer #1 L. Cofer	24-13N-4W	1,319	Prairie du Chien	1,068	10-18
16		Morgan	P. F. Bergsneider #1 J. W. Dodsworth	24-14N-9W	1,602	Trenton	1,528	12-13
17		Piatt	T. Myers #1 Waggoner Est.	24-17N-4E	3,160	Trenton	3,063	9-20
18		Pike	F. Babiak #1 Walker	20-3S-3W	735	Trenton	658	9-20
19		St. Clair	Mississippi River Fuel #1 M. Vale	8-2S-8W	1,959	St. Peter	1,865	4-26
20		Union	F. L. Rigney #1 Hileman	21-13S-1W	621	Warsaw	599	12-13
21		Vermilion	Jet Oil #1 H. C. Finley	9-18N-12W	1,539	Silurian	1,376	6-21
22		Wabash	E. P. Dupont #1 R. E. Schaefer	31-2N-11W	5,143	Trenton	5,026	3-1
23	Ashley	Washington	N. A. Baldrige #3 W. J. Waier	32-2S-1W	3,101	Devonian	3,044	9-13
24	Dubois*	Washington	J. L. McManamy #1 Wisniewski	13-3S-2W	3,009	Devonian	2,944	1-18
25	Okawville	Washington	E. A. Obering #3 Baldwin	15-1S-4W	3,510	Trenton	3,398	10-4

*Plugged back to production.

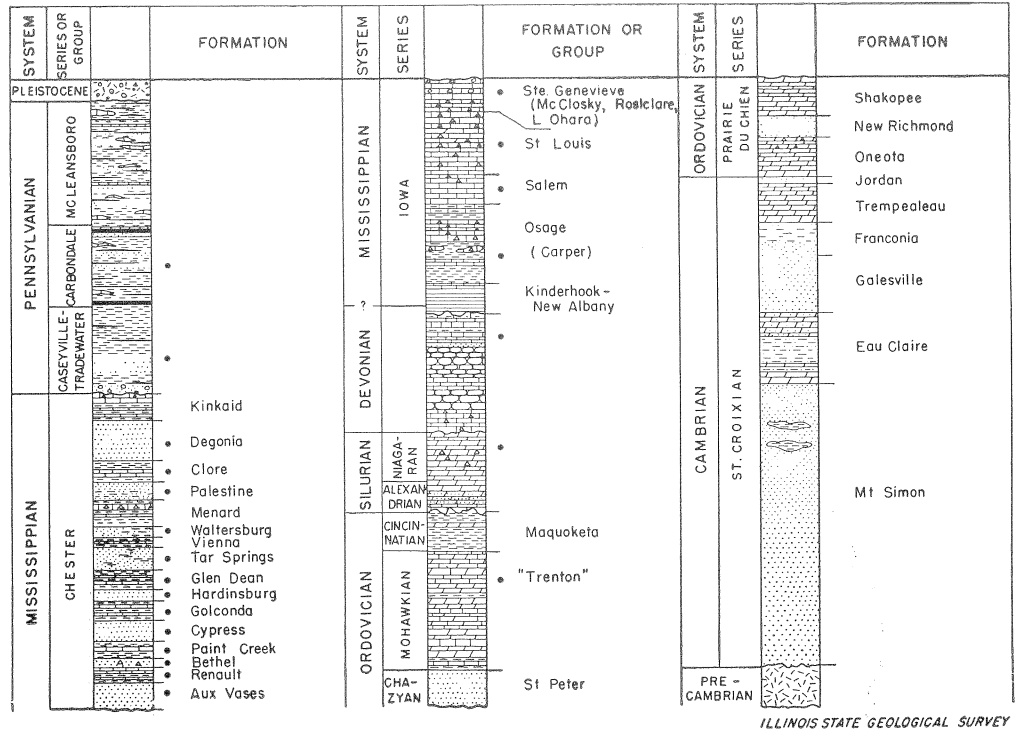


FIG. 3.—Generalized geologic column for the southern Illinois oil region. Black dots identify oil-producing strata.

TABLE 8.—GEOPHYSICAL AND CORE-DRILLING CREWS ACTIVE IN ILLINOIS, 1955

	Seismo-graph	Gravity meter	Core drilling	Magne-tometer
January	1	0	1	0
February	1	0	1	0
March	1	0	1	0
April	1	0	1	0
May	1	0	1	0
June	0	0	3	0
July	0	0	1	0
August	0	0	2	0
September	0	0	2	0
October	0	0	3	0
November	0	0	3	0
December	0	0	2	0

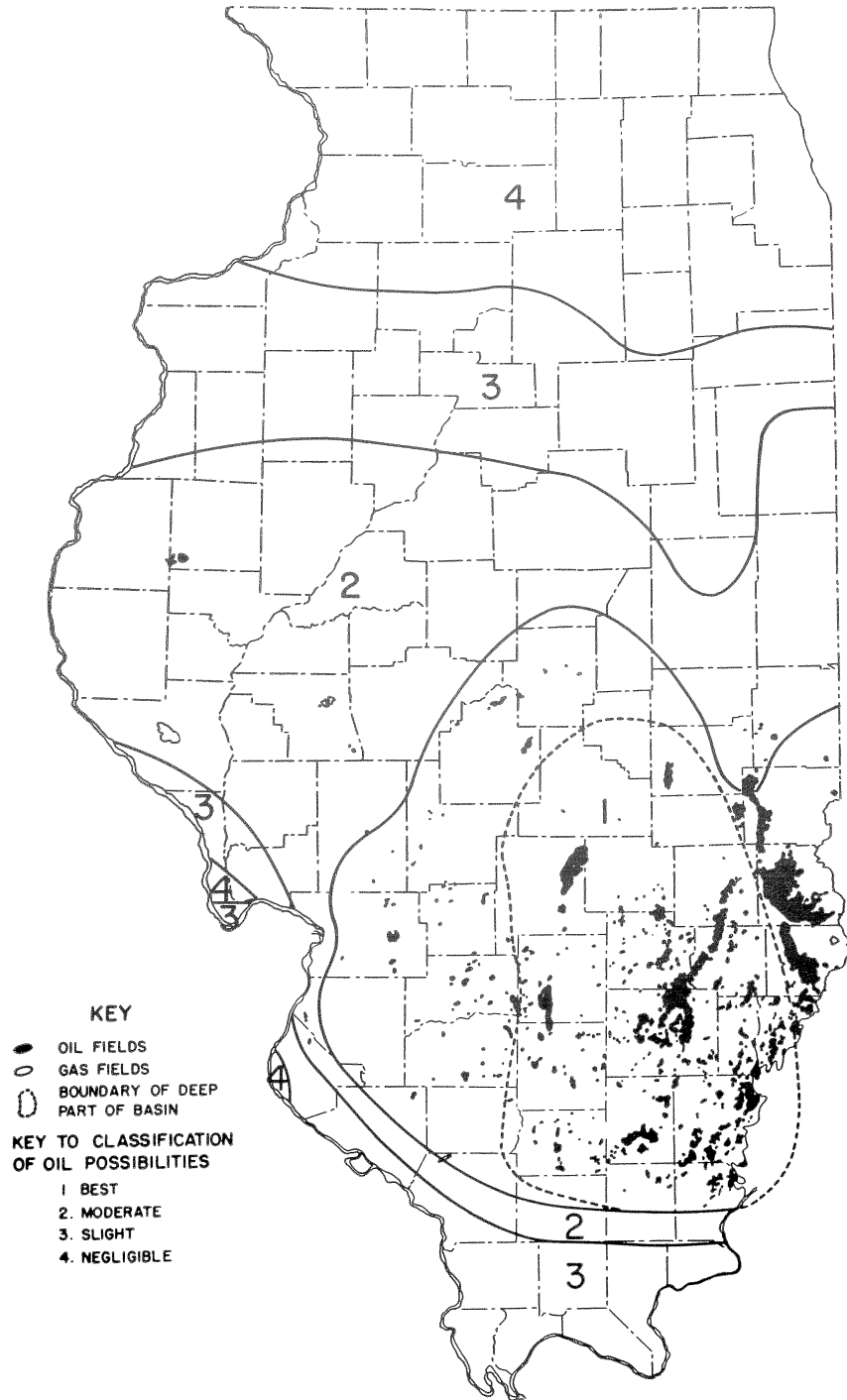


FIG. 4.—Oil and gas possibilities in Illinois, January 1, 1956.

PRODUCTIVE ACREAGE

The area of proved production in Illinois, including abandoned pools, at the end of 1955 was 521,200 surface acres for oil and 22,155 for gas. Of this, 359,090 oil acres were in pools discovered since 1936; about 21,000 oil acres were added to them in 1955. Most of the drilling in the old pools (discovered before 1937) was inside drilling to different pays; very little surface acreage was added to the old pools.

ESTIMATED PETROLEUM RESERVES

The Illinois State Geological Survey estimates that on January 1, 1956, oil reserves in Illinois that can be produced from wells now in existence by methods in use in each area total 701.3 million barrels. This represents an increase of 9.6 million barrels over the estimate for January 1, 1955. The factors in this change are shown below

	<i>Millions of bbls.</i>
Estimated reserves, Jan. 1, 1955.....	691.7
Withdrawal by 1955 production.....	81.1
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
Added by new drilling in 1955.....	68.9
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
Added by upward revision.....	21.8
	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/>
Estimated reserves, Jan. 1, 1956.....	701.3

The 2,146 oil producing wells, including workover wells, completed during 1955 added an estimated oil reserve of 68.9 million barrels, an average of about 30,900 barrels per well.

Of the 68.9 million barrels of added reserves, it is estimated that 2.5 percent is in Pennsylvanian sandstones, 87.9 percent in Mississippian sandstones and limestones, and 9.6 percent in Devonian-Silurian limestones and sandstones. New reserves credited to the Ordovician totaled about one-tenth of one percent.

As in 1954, the most important pay zones for which new reserves were added by drilling in 1955 are the Aux Vases sandstone with 37.4 percent and the Valmeyer series, which includes the Rosiclare, McClosky, and Salem, with 23.2 percent. The Waltersburg

sandstone occupies third place with 11.3 percent, replacing the Cypress sandstone, which dropped from 18.9 percent of the total in 1954 to 8.5 percent in 1955. The Bethel sandstone accounted for 5.4 percent. All other Mississippian producing zones accounted for 2.1 percent of new reserves.

Although new reserves in 1955 for the Mississippian have remained about constant (88.9 percent of the total for 1954), those for the Devonian and Silurian have almost doubled (5.9 percent in 1954), and those for the Pennsylvanian are less than half of the 1954 addition (5.2 percent).

The reserves added by 33 new oil fields discovered during 1955 total 2,610,000 barrels of oil. When these reserves are broken down in the same manner as the total new reserves for 1955, a different picture is indicated in that the Mississippian accounts for 50.4 percent, the Devonian-Silurian for 49.4 percent, and the Pennsylvanian sandstones for the other 0.2 percent of the new reserves.

The ten new fields with Devonian and Silurian production lie along the western side of the basin and are the result of an intensified search for oil in this area. The major drilling in the basin area has been in extending existing fields rather than in searching for oil in deeper formations.

Comparison of the reserves discovered in new pools in 1954 and 1955, as shown above, indicates a significant increase in Devonian and Silurian reserves compared to Mississippian reserves in new pools. Inasmuch as the Devonian and Silurian have been drilled in very few places in the deep part of the basin, where the bulk of the production is from Mississippian rocks, future exploratory drilling may find new reserves here in the rocks below the Mississippian.

PROSPECTS FOR NEW POOLS

Every year about 25 to 35 new oil or gas pools are discovered in Illinois. Figure 4 is a map of the state that classifies oil and gas possibilities by areas. The map is slightly modified after a similar classification map prepared by the Survey in 1930, seven years before oil was discovered in the deep part of the basin (outlined by the dashed line in figure 4).

From 1937 to 1954 most of the new pools were discovered in the deeper part of the basin and produced from the Pennsylvanian and Mississippian. Outstanding exceptions are the Devonian and Trenton production at Salem and Centralia. In both instances, however, Mississippian pools were established first and the deeper pays found by deepening wells within the pools.

Many of the counties in the deeper part of the basin have been developed to an extent allowing little possibility for finding new pools. In 1954 and 1955 most of the new pools were near the margin or outside the deeper part of the basin. In both years 11 new Silurian or Devonian pools were discovered in the northern and western part of the area of best possibilities.

During 1955 three important areas of deeper production were developed: the Salem limestone in the northern part of the Clay City Consolidated pool in Jasper County, and a Devonian sandstone as a northern extension to both Sorrento and Woburn Consolidated pools in Bond County.

In the deep part of the basin the pre-Mississippian formations are virtually untested. In some counties, including Clay and Wayne, only a dozen or so deep tests have been made, and none of these has tested possible pays below the St. Peter sandstone. Possible deep pays are discussed in "Deep Drilling and Deeper Oil Possibilities in Illinois," by L. E. Workman and A. H. Bell, published in the Bulletin of the American Association of Petroleum Geologists, v. 32, p. 2041, 1948.

GAS AND GAS PRODUCTS

An estimated 40 billion cubic feet of gas was produced from Illinois oil wells during 1955, either as solution gas or in separate gas reservoirs in the oil areas.

Most of the 143 million cubic feet of Illinois gas marketed during the year, as shown in the table below, came from dry gas wells within oil fields. In addition to the gas marketed, a somewhat smaller amount from gas wells in oil fields was used as fuel on leases.

About 7.1 billion cubic feet of solution gas from Illinois oil wells was processed during

1955 by the three principal operating companies, producing 1,809,000 bbls. of natural gasoline and allied products. This figure does not include natural gasoline and allied products from one plant in Illinois that processes gas from outside the state. Data furnished by the companies indicate that approximately 300 million cubic feet of dry residue gas was returned to the producing formations, the remainder being used as plant or lease fuel. The amount of plant residue gas flared was insignificant.

In addition to the 7.1 billion cubic feet of metered solution gas processed, it is estimated that a like amount of unmetered gas was used largely for lease fuel. About 35 billion cubic feet of gas was flared during the year, principally in the Saline County area.

Eighteen new gas wells located in seven different pools in nine different counties, and having a combined open-flow capacity of 57,954,000 cubic feet daily, were completed during 1955. None of this gas has been marketed for use away from the producing area. Two of the seven gas pools, Fishhook in Adams and Pike counties and Redmon North in Edgar County, have produced only gas to date. Approximately 13 million cubic feet of the new capacity is represented by the six gas wells in the Fishhook pool.

GAS PRODUCED IN ILLINOIS AND MARKETED IN 1955

Field, County	Market	Cu. ft. used
Harrisburg, Saline	Harrisburg	25,245,000
Herald Consolidated, White-Gallatin	Carmi	117,844,000
		143,089,000

SECONDARY RECOVERY

Use of the waterflood method of secondary recovery continued to expand in 1955. At the end of 1954, approximately 245 waterfloods were in operation in Illinois, whereas by the end of 1955 there were approximately 300 waterflood projects. During 1955, these operations recovered an estimated 25,000,000 barrels of oil, or 31 percent of the state's total oil production. This is 39 percent more than the 1954 waterflood production of 18,000,000 barrels. The cumulative waterflood oil recovery by the end of 1955 was approximately 100,000,000 barrels.

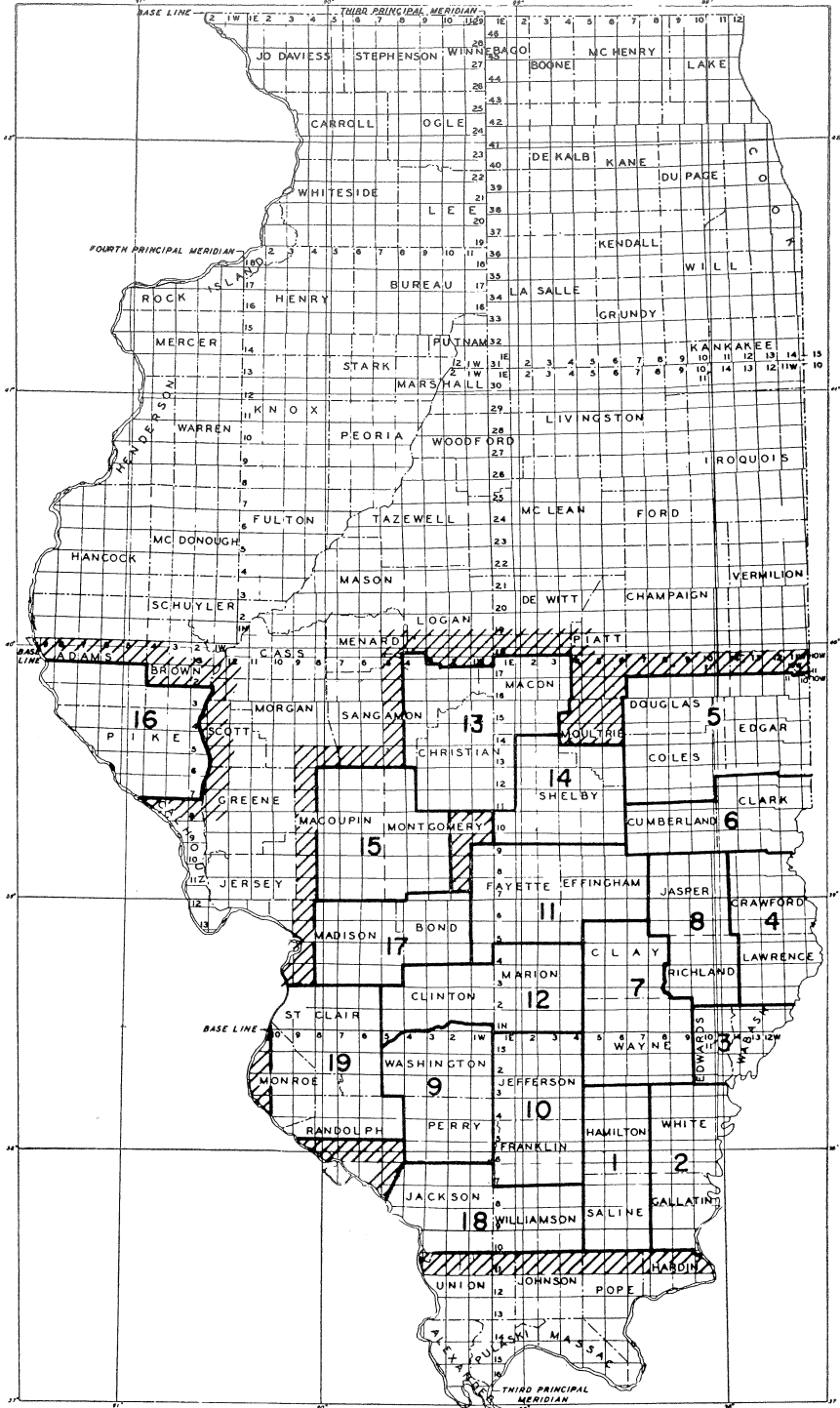


FIG. 5.—Index map to areas and counties covered in this report. See detail maps, figures 6-24. County reports, arranged alphabetically, begin on page 47.

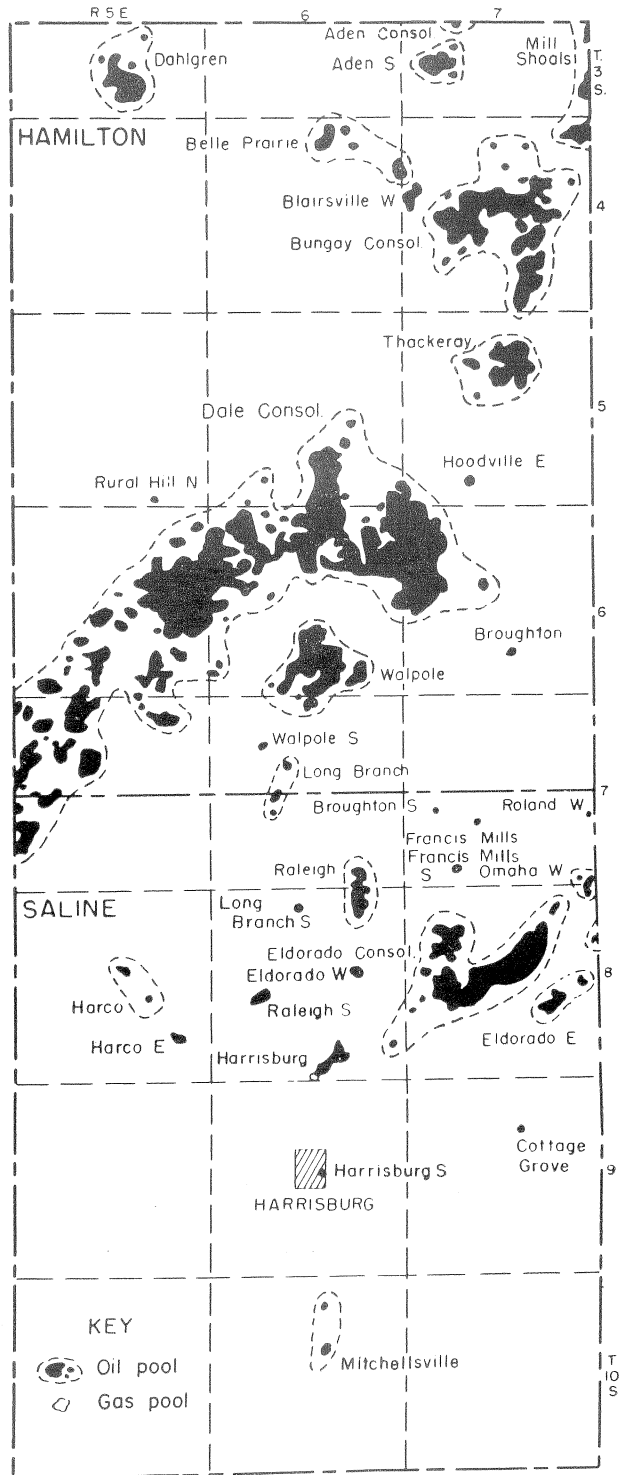


FIG. 6.—Area 1: Hamilton and Saline counties.

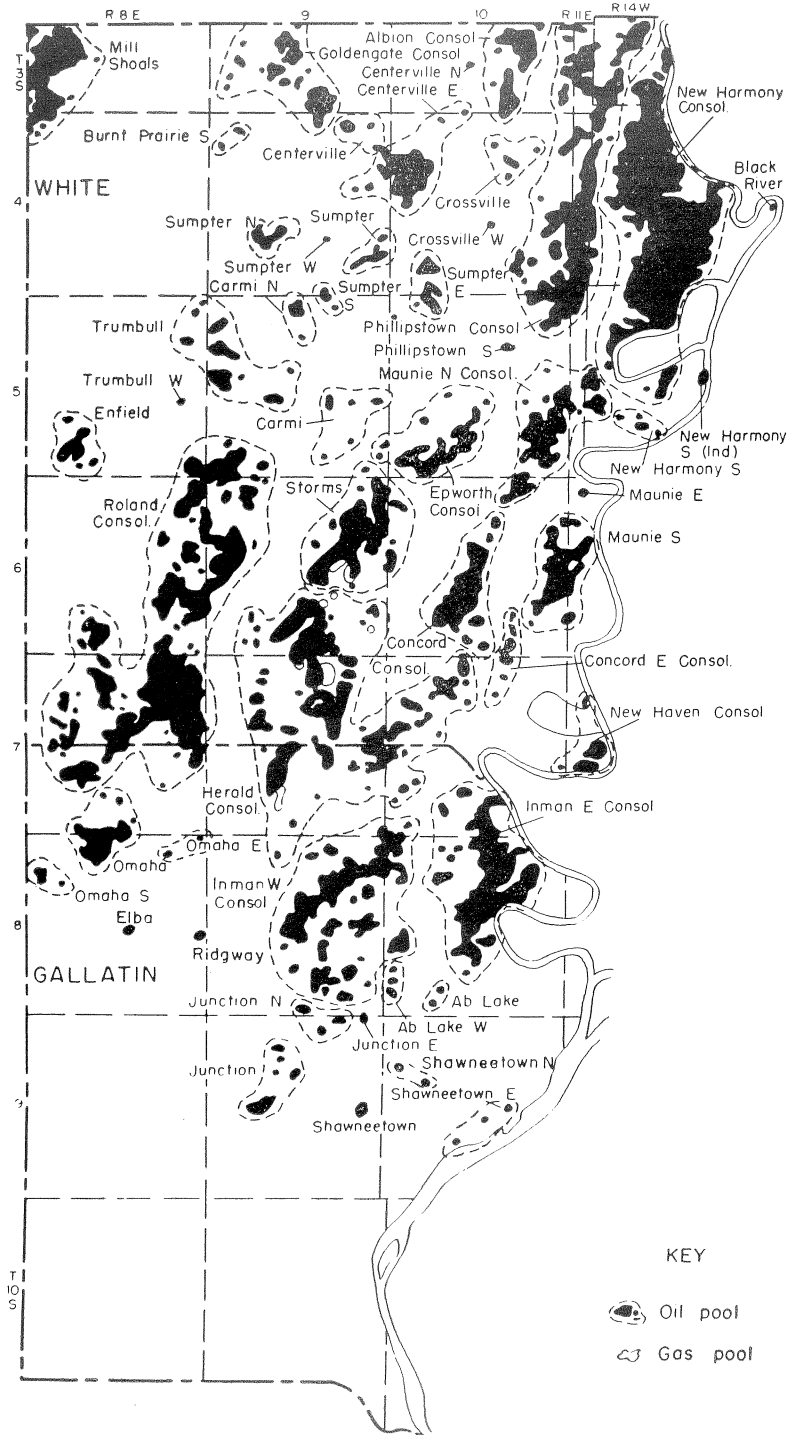


FIG. 7.—Area 2: White and Gallatin counties.

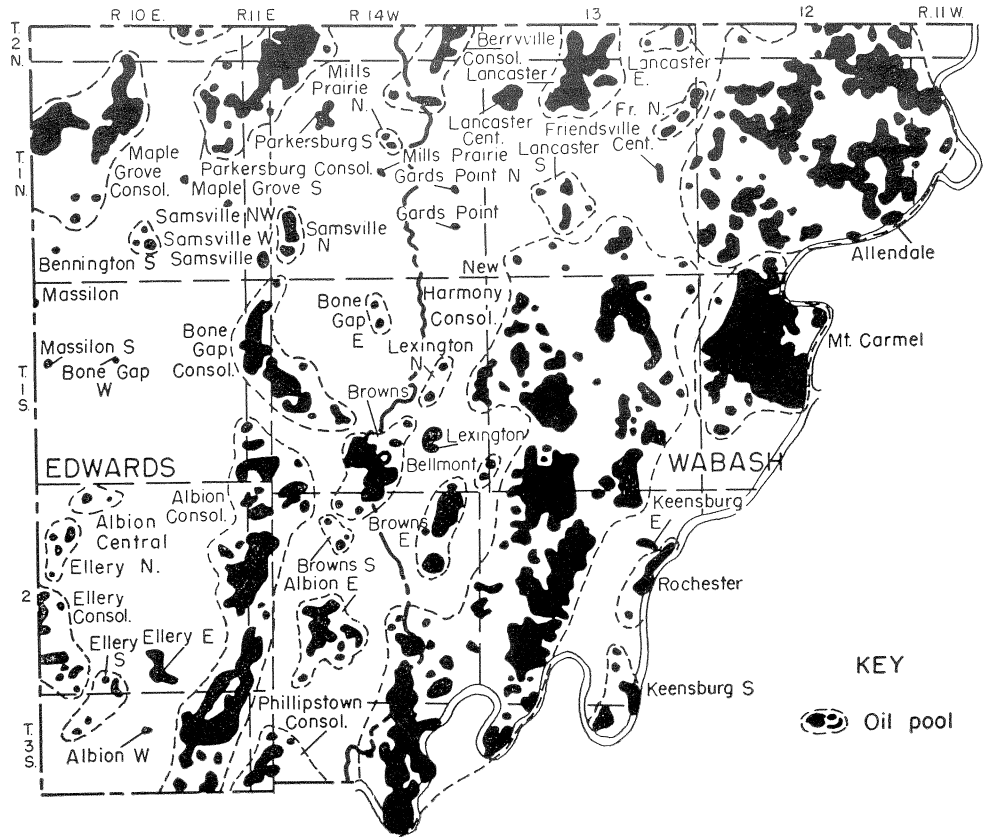


FIG. 8.—Area 3: Wabash and Edwards counties.

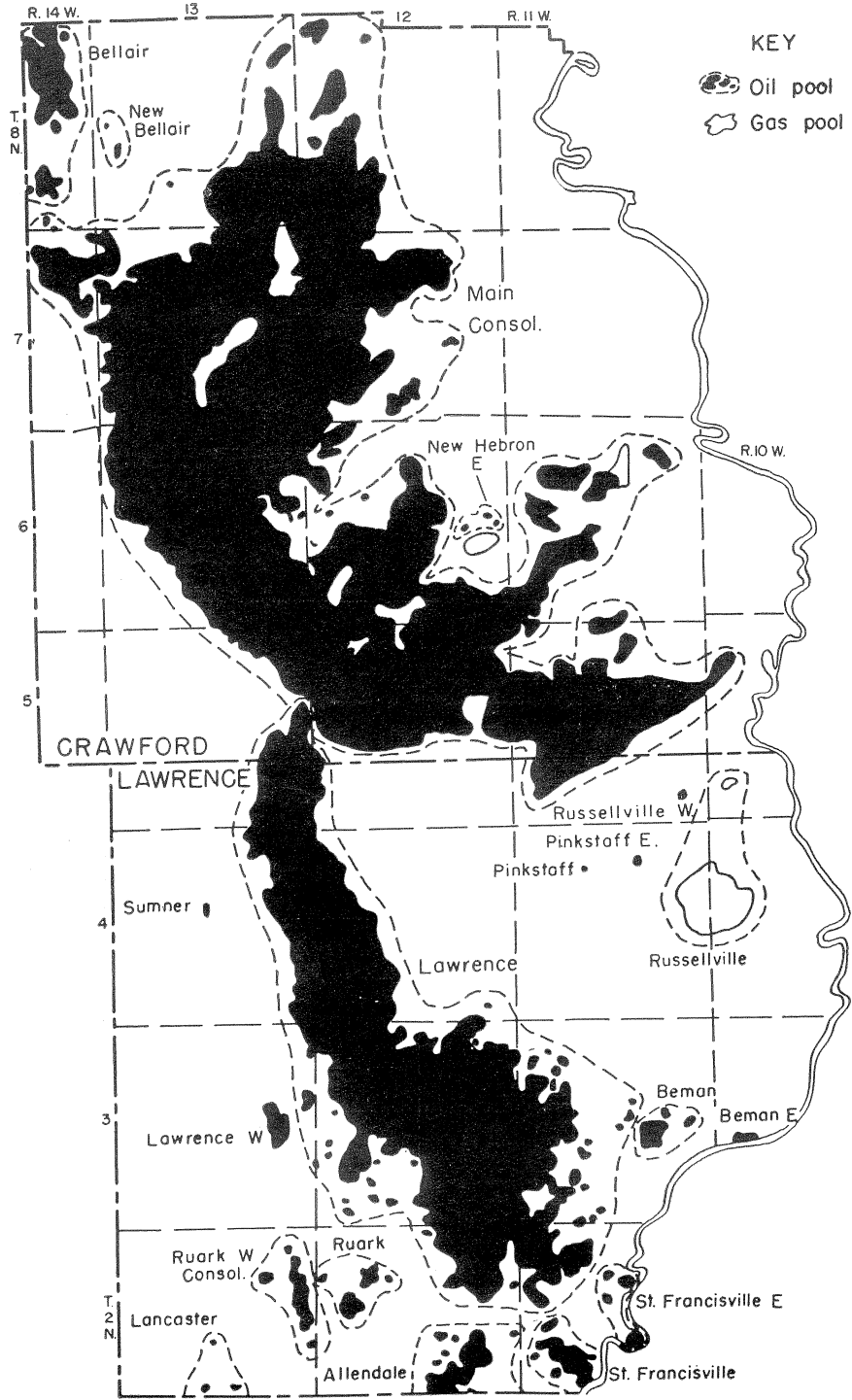


FIG. 9.—Area 4: Crawford and Lawrence counties.

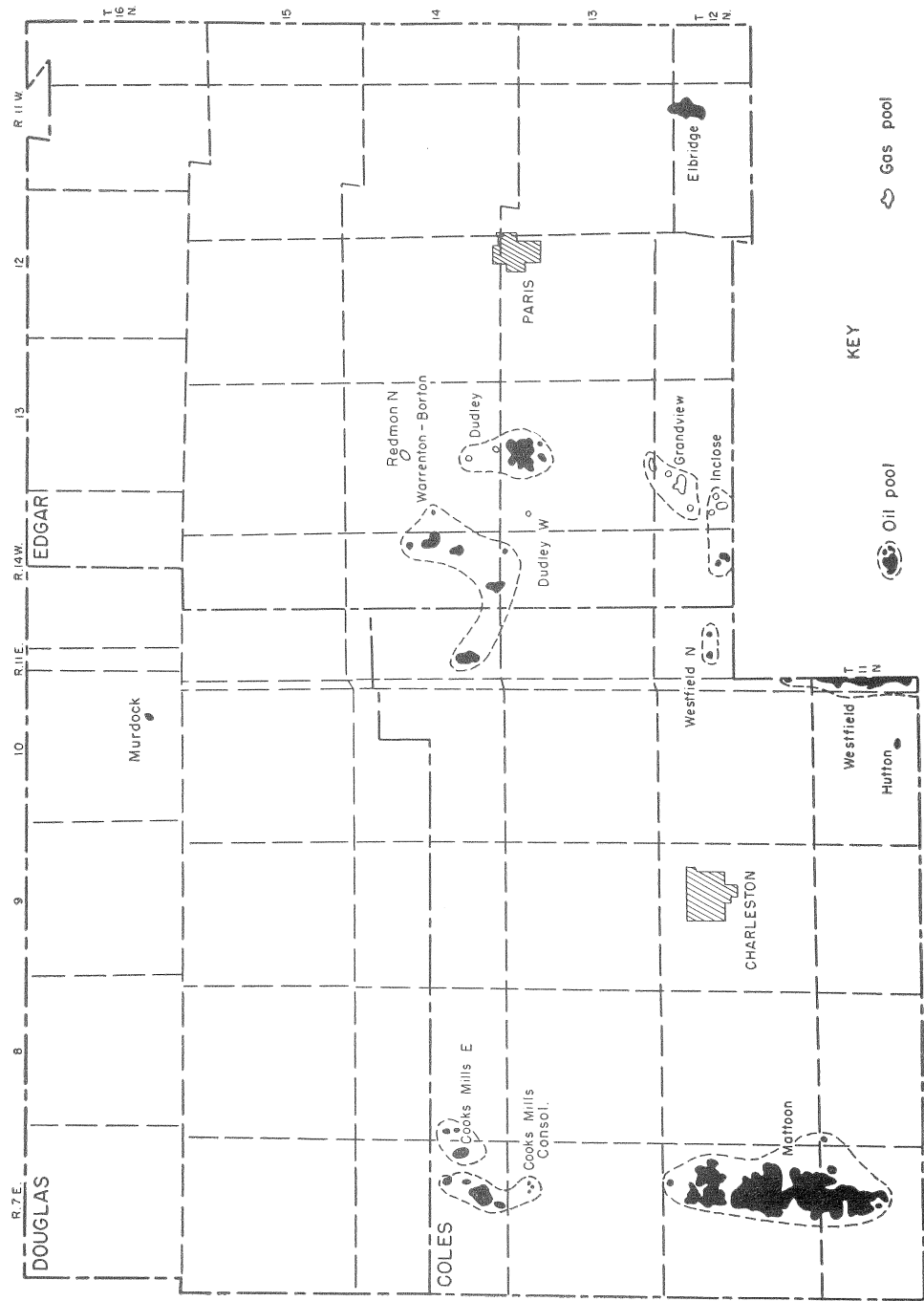


FIG. 10.—Area 5: Coles, Douglas, and Edgar counties.

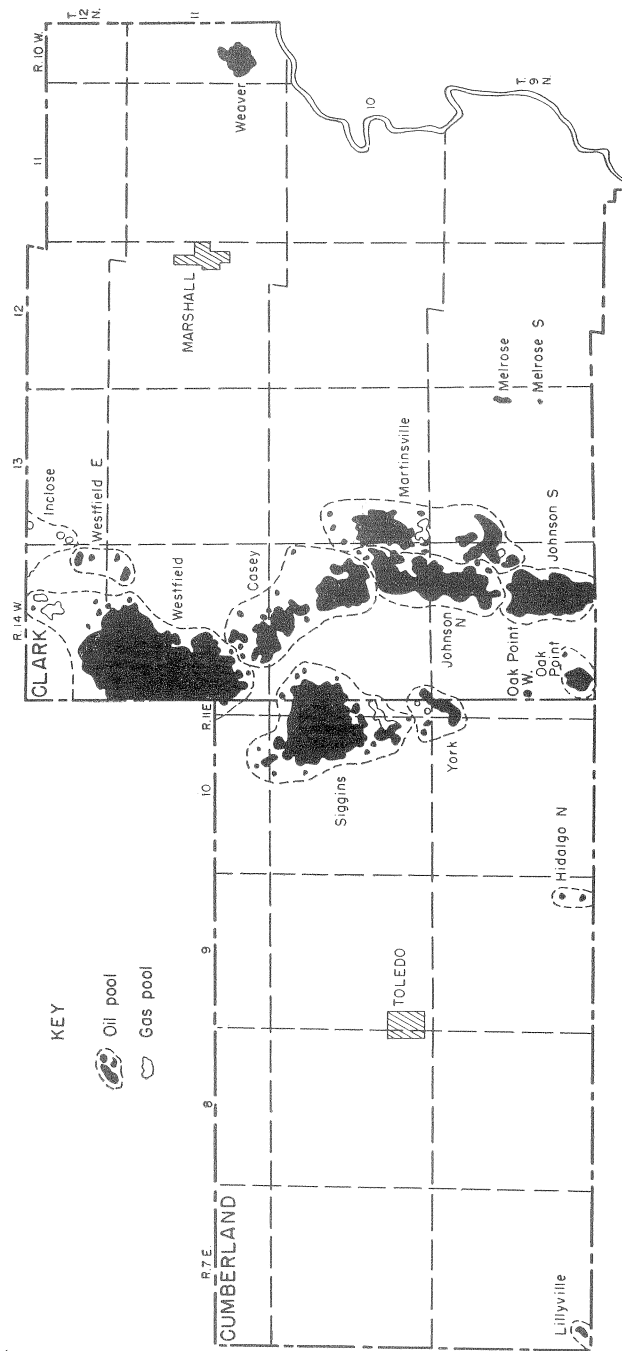


FIG. 11.—Area 6: Cumberland and Clark counties.

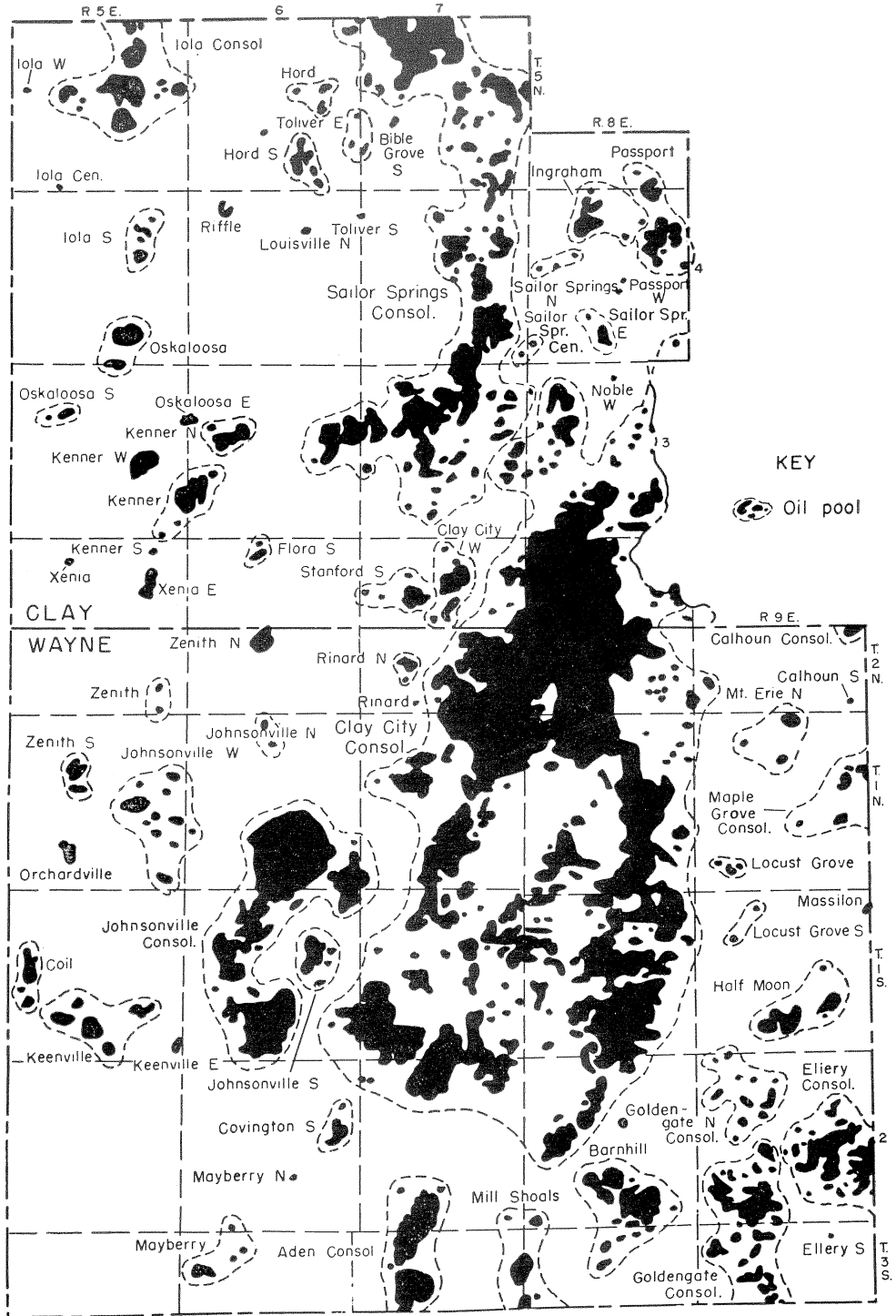


FIG. 12.—Area 7: Clay and Wayne counties.

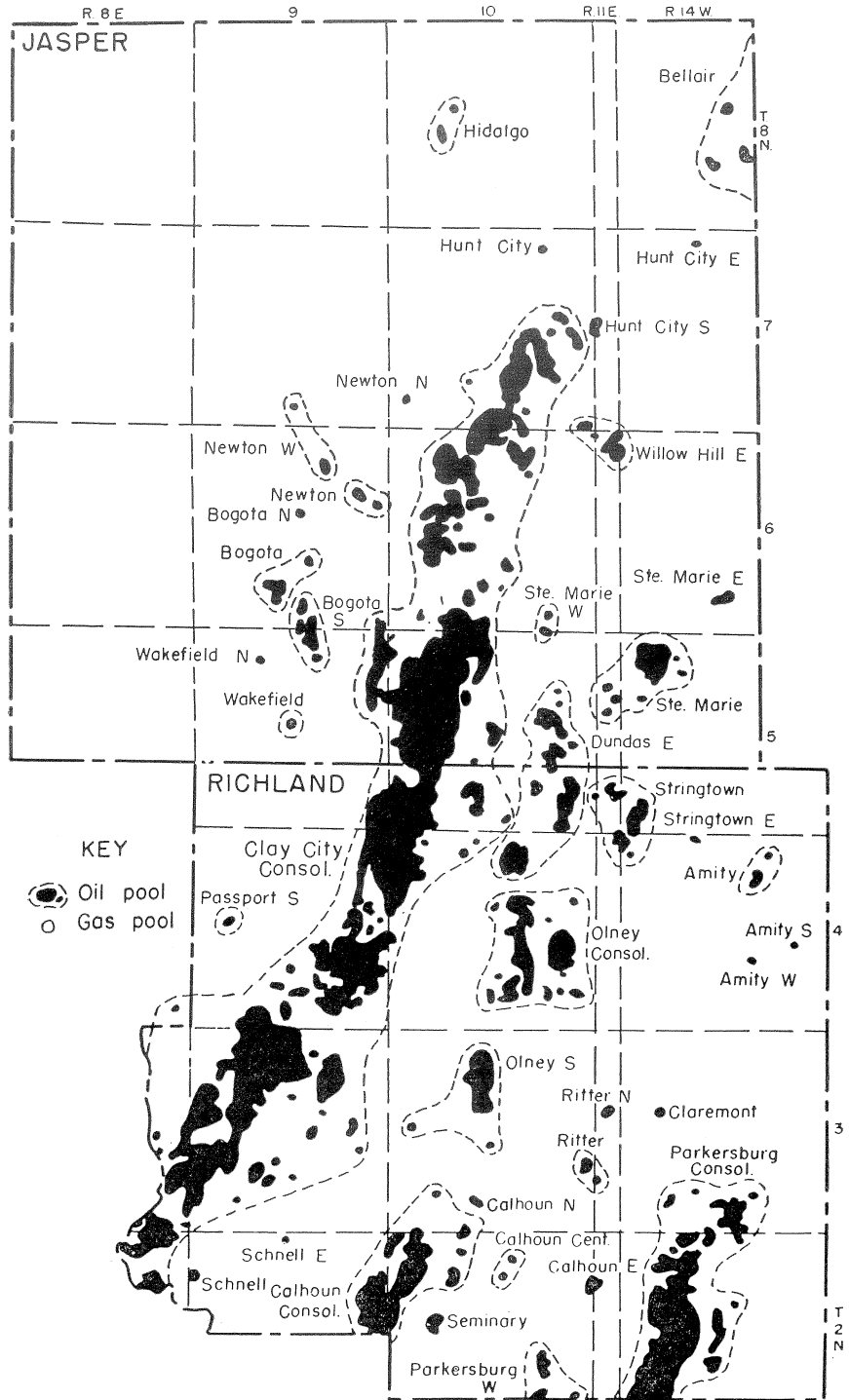


FIG. 13.—Area 8: Jasper and Richland counties.

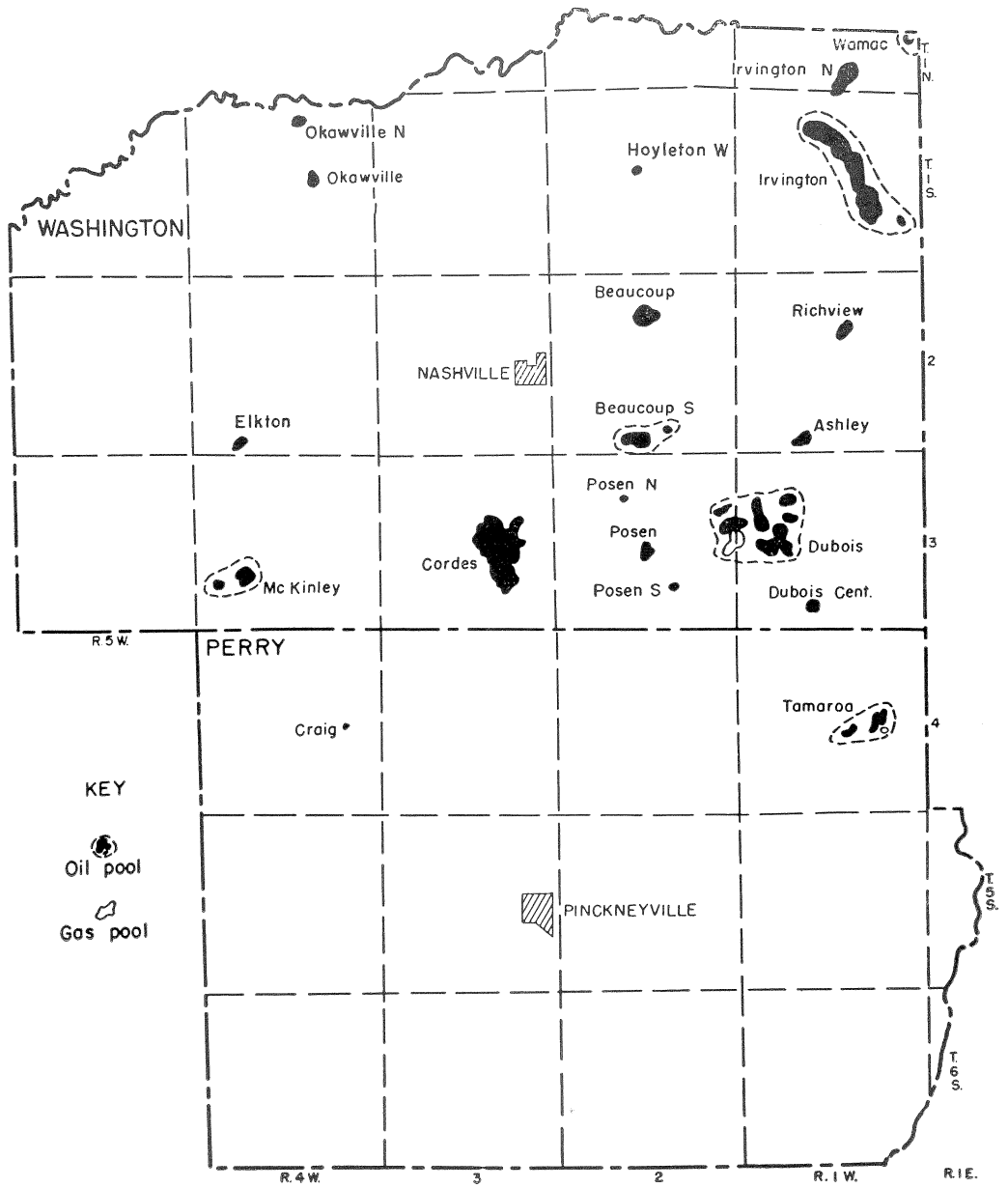


FIG. 14.—Area 9: Washington and Perry counties.

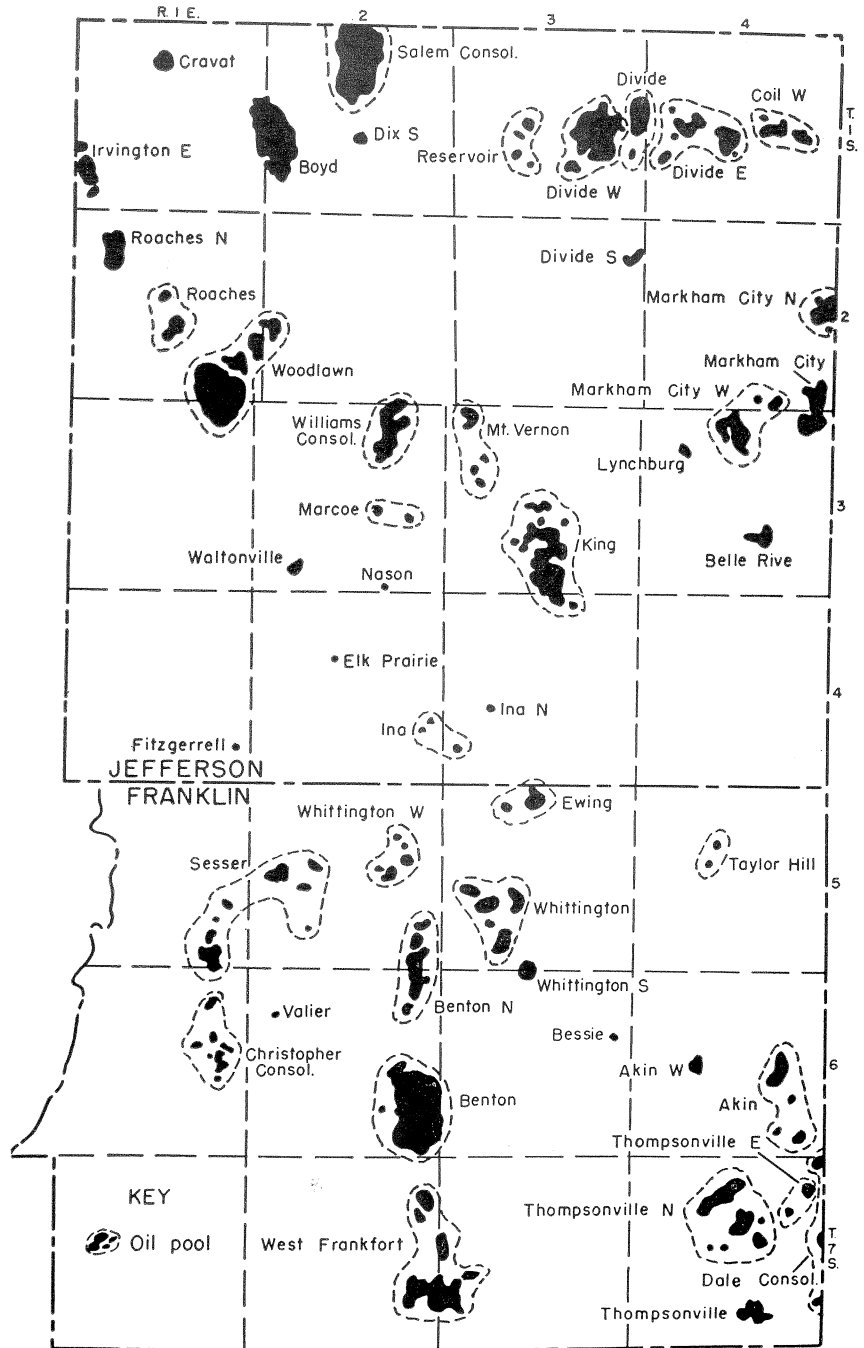


FIG. 15.—Area 10: Jefferson and Franklin counties.

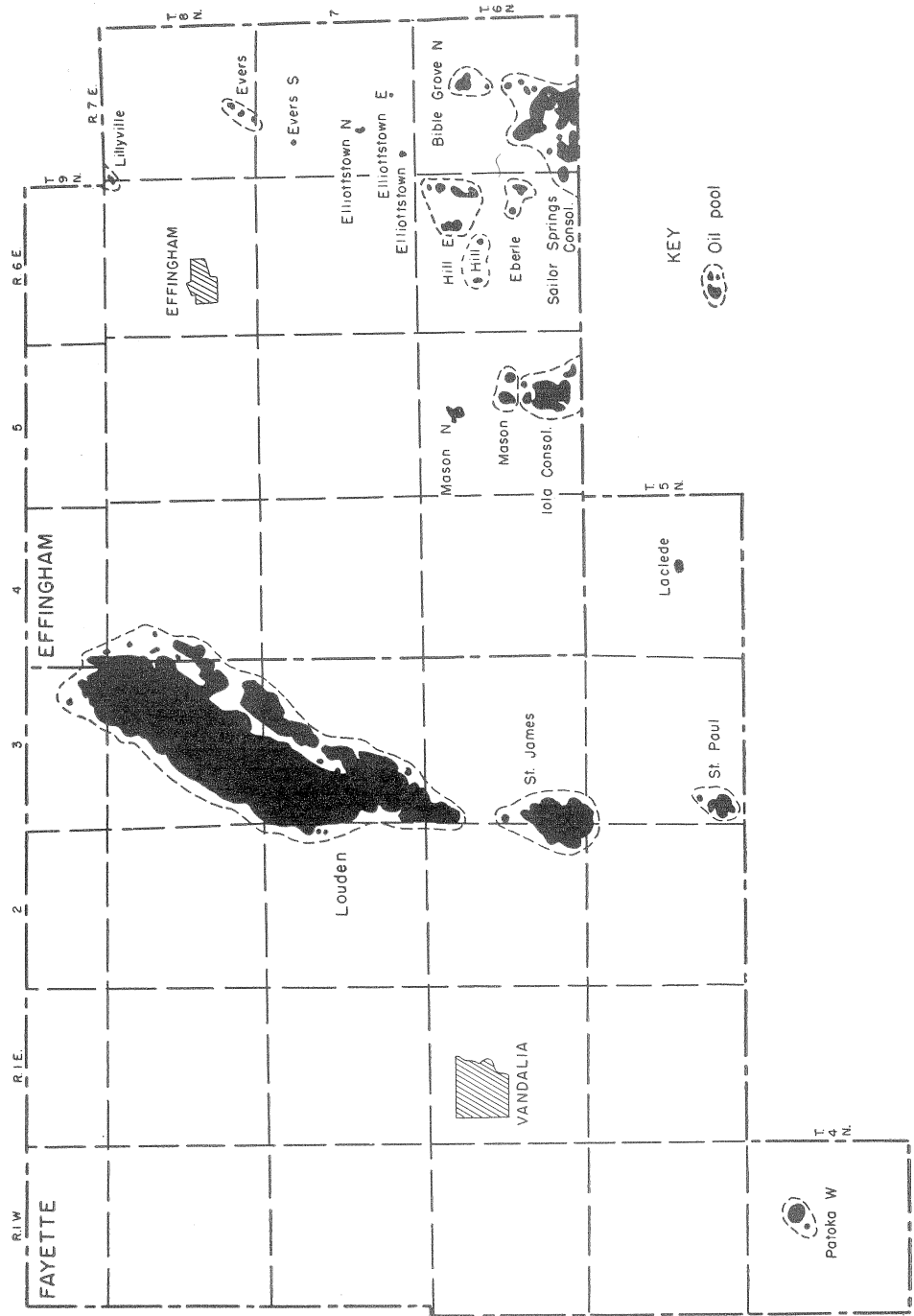


FIG. 16.—Area 11: Fayette and Effingham counties.

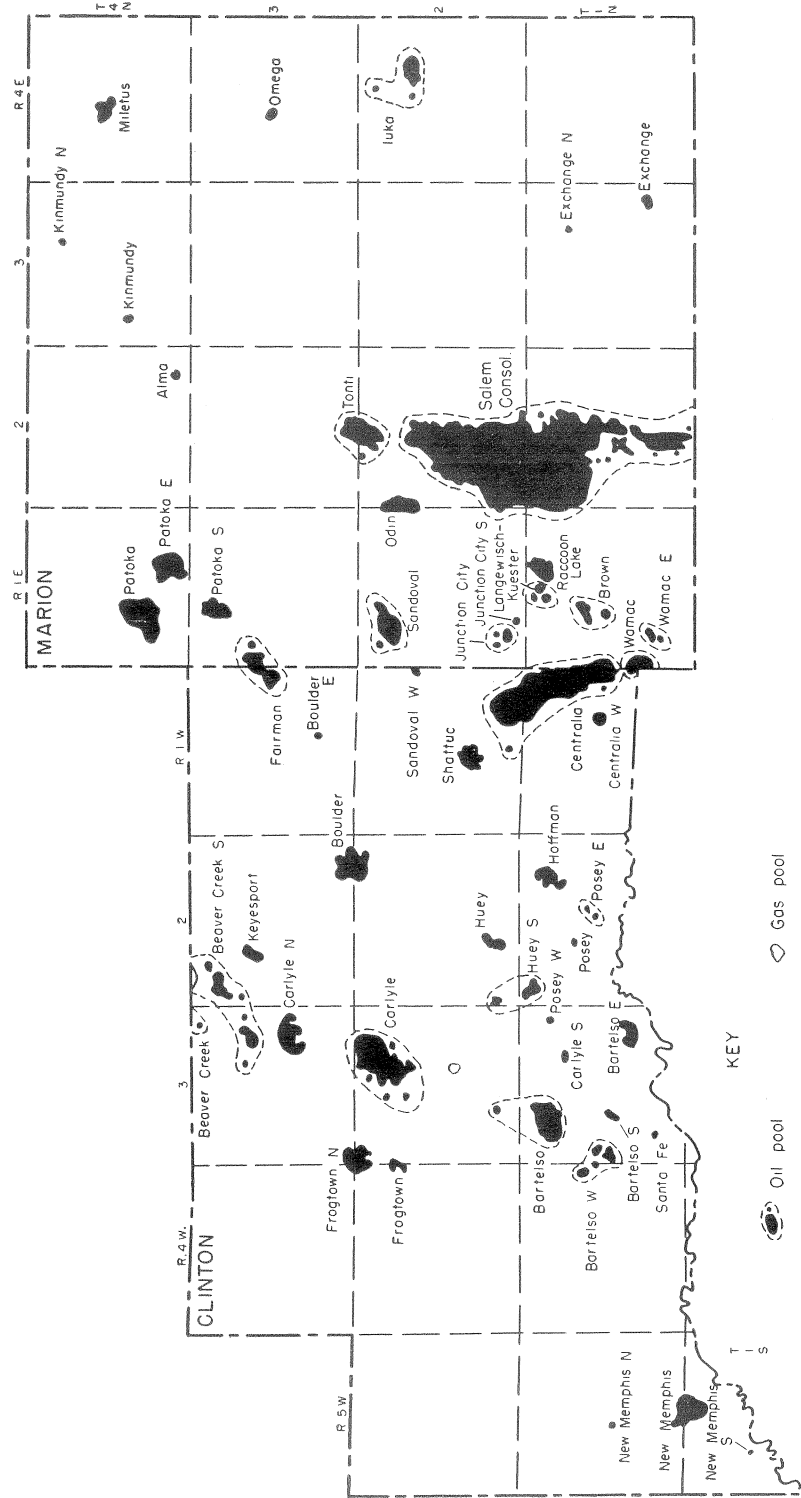


Fig. 17.—Area 12: Clinton and Marion counties.

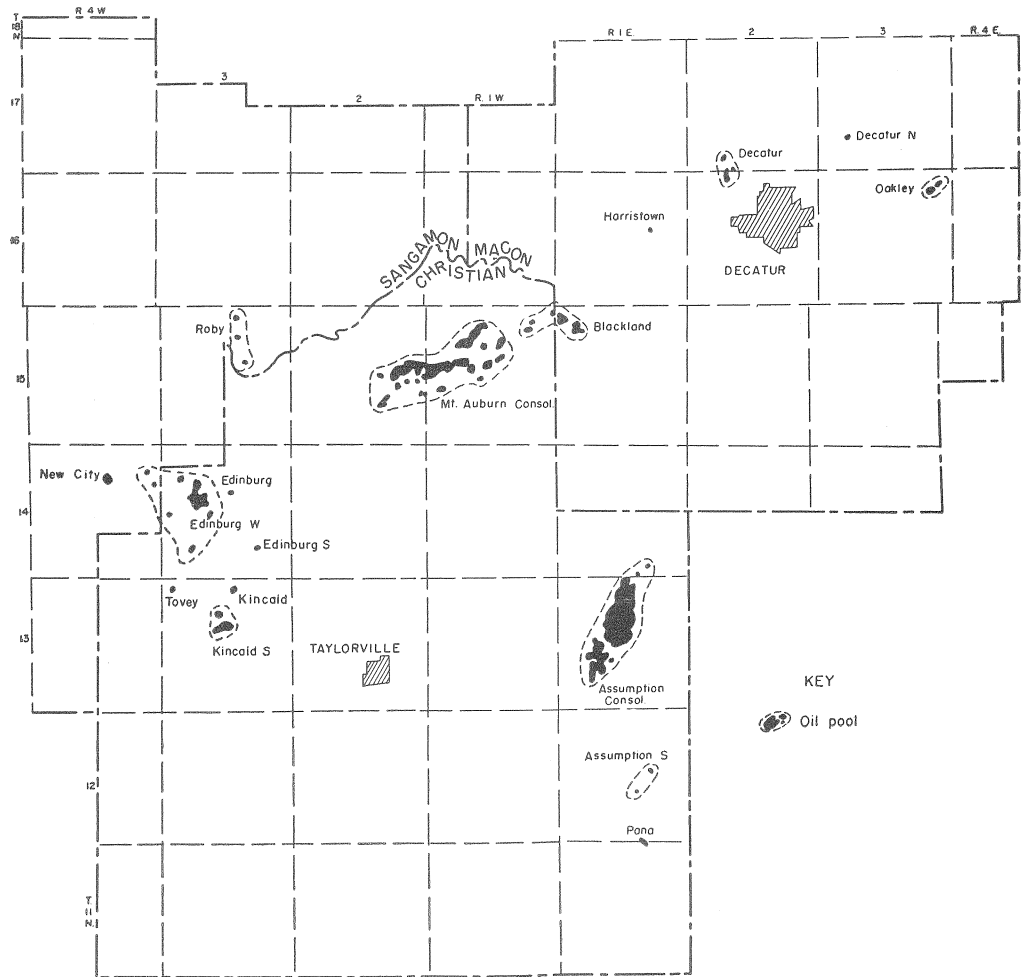


FIG. 18.—Area 13: Sangamon, Macon, and Christian counties.

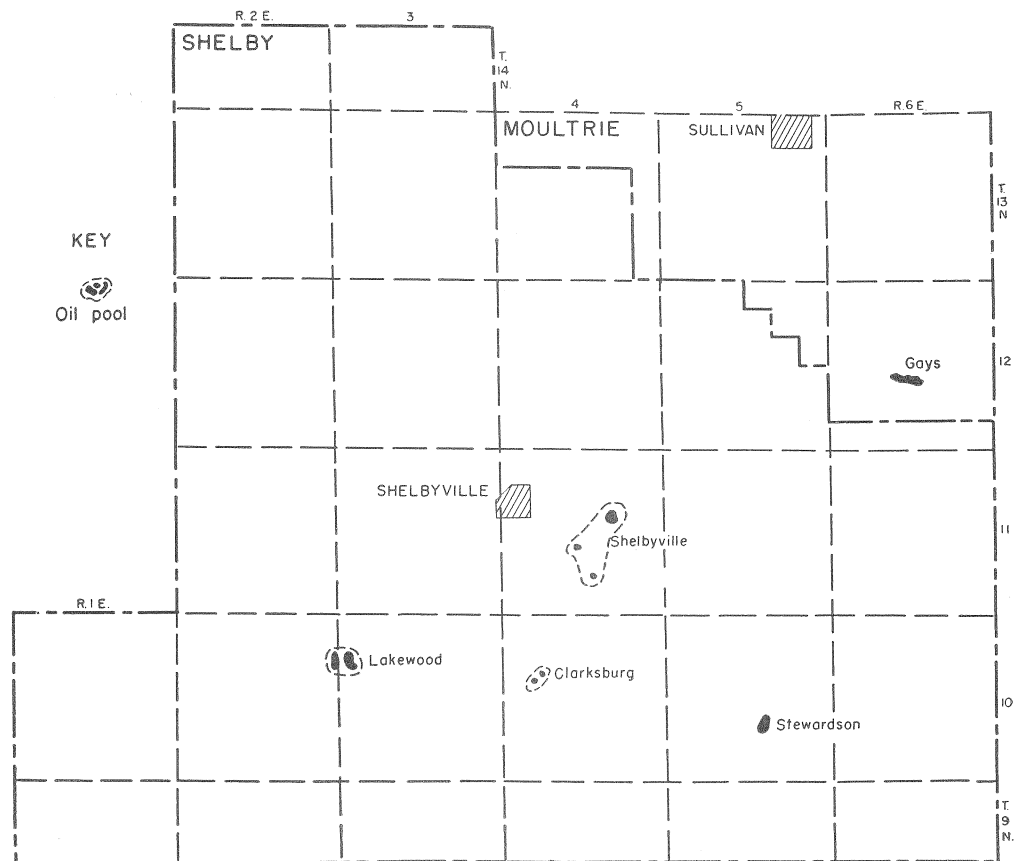


FIG. 19.—Area 14: Shelby and Moultrie counties.

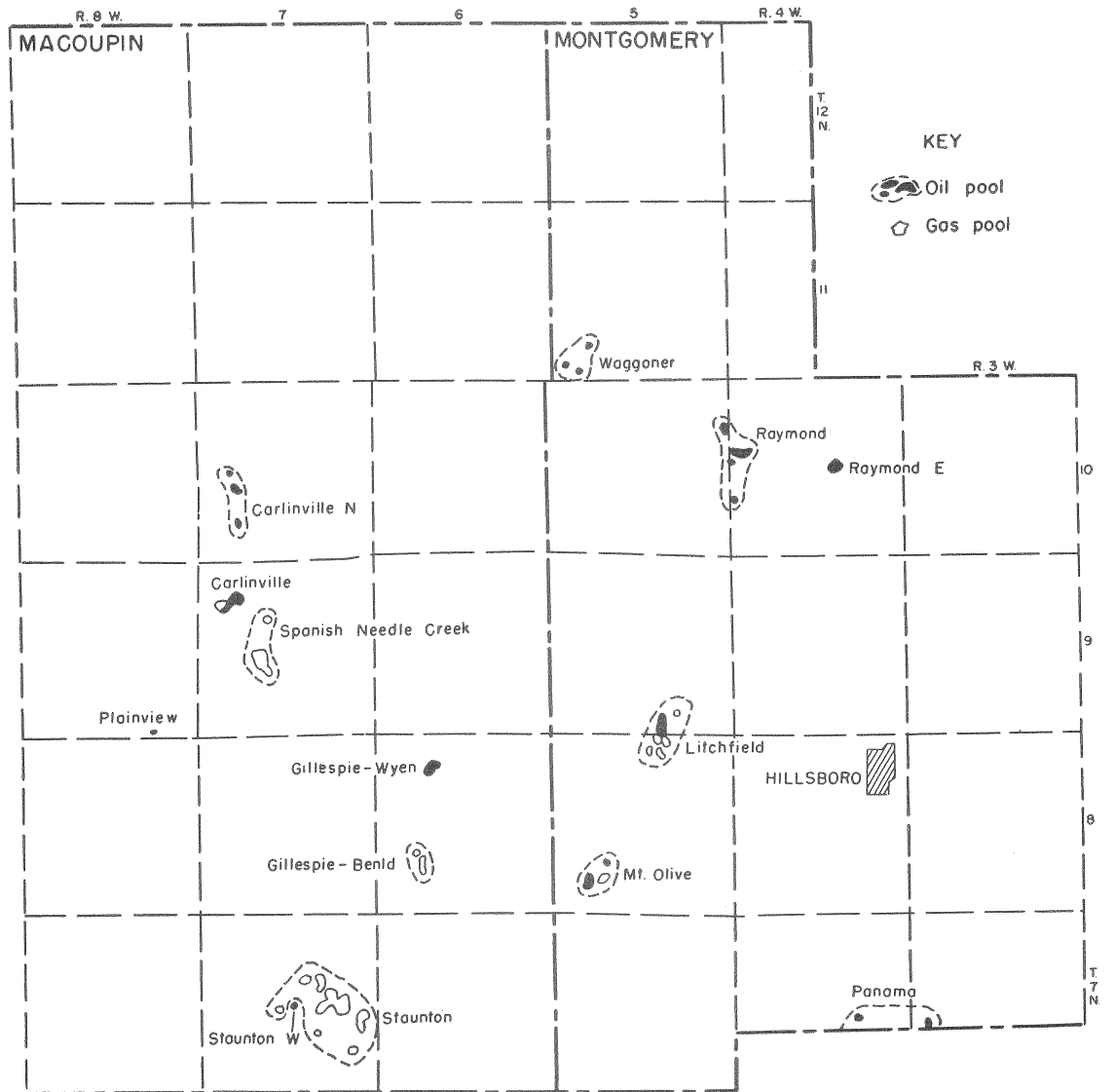


FIG. 20.—Area 15: Macoupin and Montgomery counties.



FIG. 21.—Area 16: Pike and Adams counties.

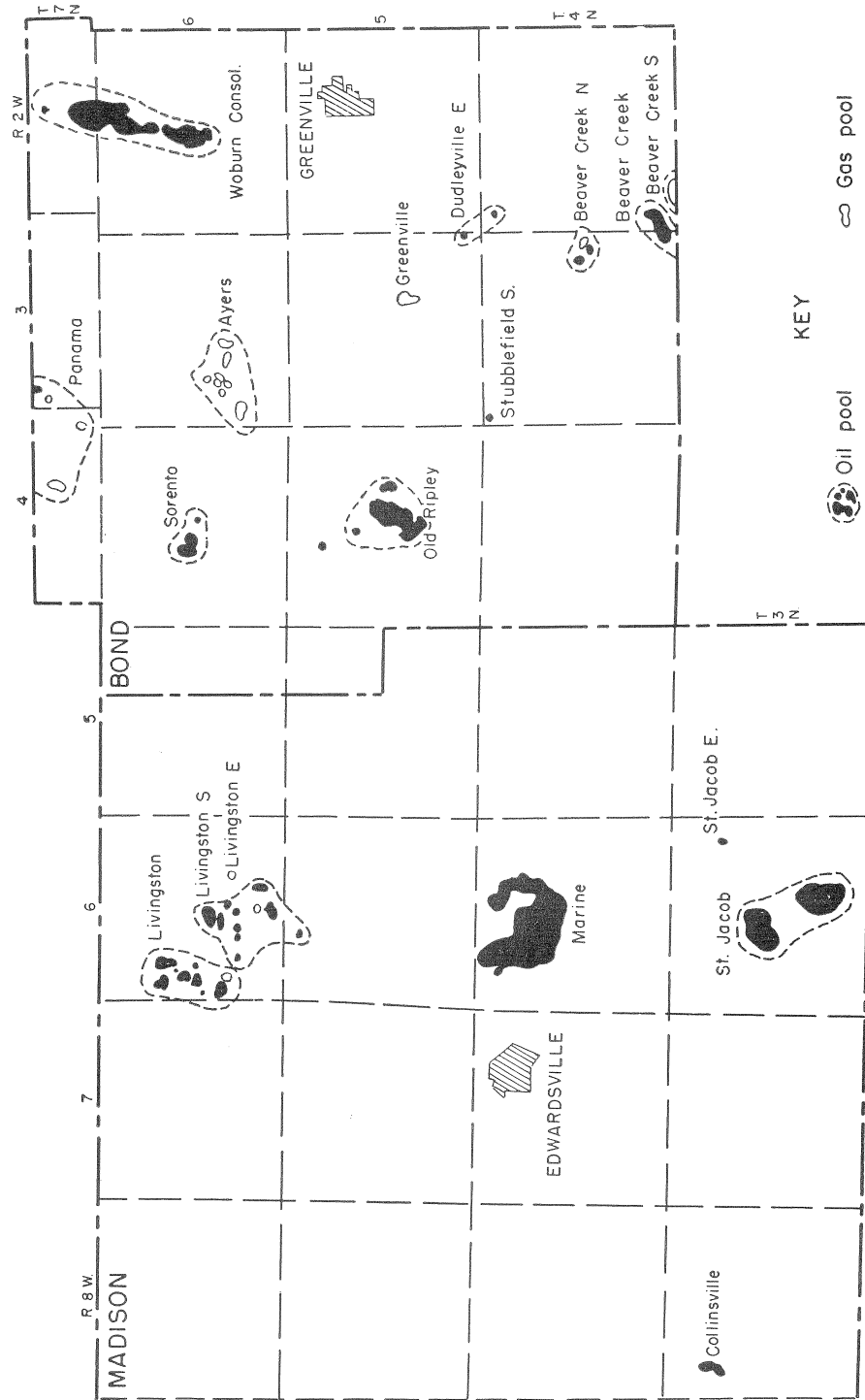


Fig. 22.—Area 17: Madison and Bond counties.

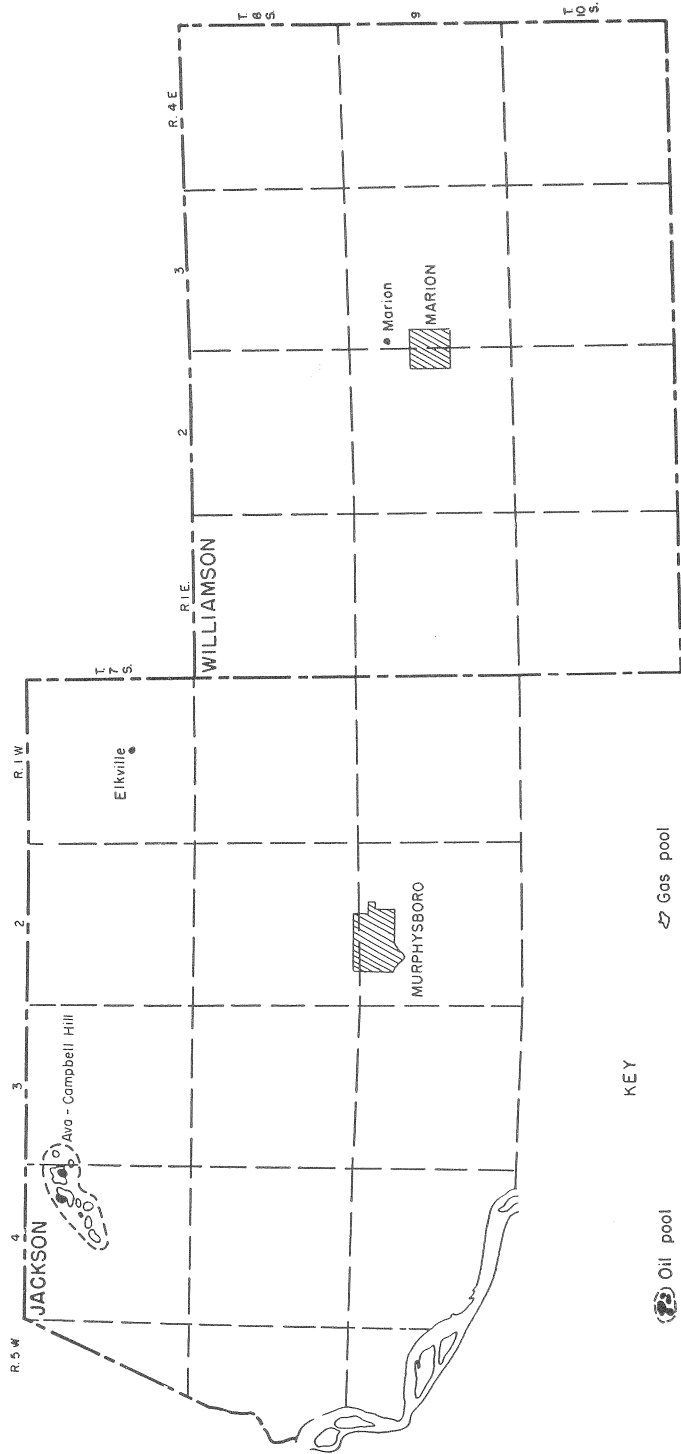


Fig. 23.—Area 18: Jackson and Williamson counties.

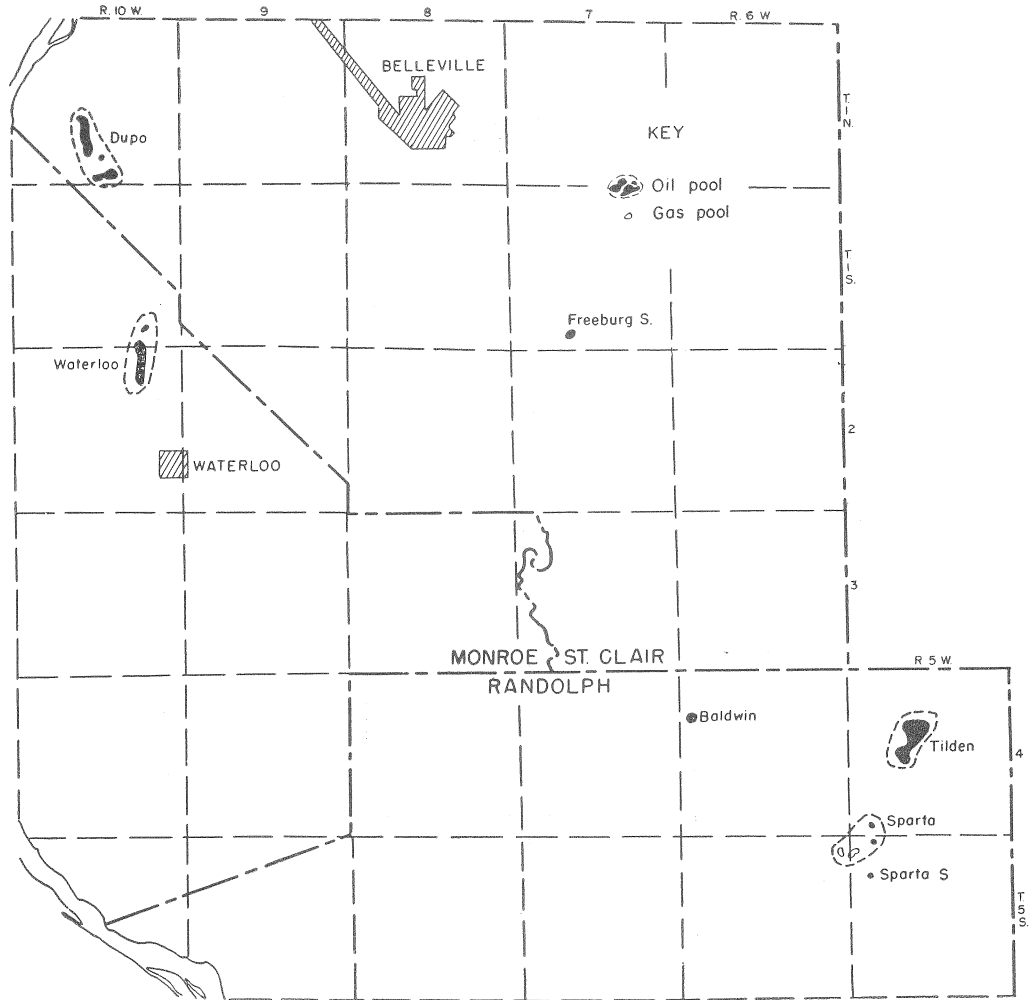


FIG. 24.—Area 19: Monroe, St. Clair, and Randolph counties.

COUNTY REPORTS

ADAMS COUNTY

(FIG. 21, AREA 16)

The first producing well ever drilled in Adams County was brought in in 1955, a 458-foot Silurian gas well in the Fishhook Gas pool. The rest of the pool is in Pike County. The Adams County well had an initial open-flow capacity of 857,000 cubic feet of gas. At the end of the year the gas was not yet being marketed.

A second well drilled in Adams County during 1955 was a dry wildcat. About 20 wells have been drilled in the county in the past 20 years, only one of which has been successful.

BOND COUNTY

(FIG. 22, AREA 17)

Bond County in 1955 produced more than 12 times as much oil as it had in 1954, and almost half of all the oil it has produced since its first oil field was discovered in 1938. Production for 1955 was 993,000 barrels; total production for the county since 1938 is 2,288,000 barrels.

Drilling for the year also set a new high, with 163 wells completed. The previous record for any year was 54 wells in 1940. One new pool was discovered, Stubblefield South, which had one Cypress oil well completed at the end of the year. Two shut-in Cypress gas wells were completed in the Bond County portion of the Beaver Creek South pool. The other 90 producing wells were located in three pools: Old Ripley, Sorrento, and Woburn Consolidated.

Old Ripley was discovered in 1954. Six wells were completed in Pennsylvanian sandstone that year, and 43 more Pennsylvanian sandstone oil wells were drilled in 1955. Production for 1954 was about 1,000 barrels, increasing to 53,000 barrels in 1955.

Two of the most important developments of 1955, for the state as well as Bond County, were the discoveries of Devonian sandstone pays at the northern end of the Sorrento and Woburn Consolidated pools. Both pools previously had had Devonian production, but the wells were small and comparatively un-

important. Seven Devonian wells in the Sorrento pool had produced about 36,000 barrels from 1938 to 1955, and only about 2,000 barrels of that had been produced during the last five years. The 13 new Devonian sandstone wells completed in 1955 had produced 184,000 barrels, more than five times the total produced since 1938, before the end of the year. The northern pool seemed by the end of the year to be almost developed. It was closely surrounded by dry holes.

The second, and apparently more important, new Devonian sandstone pay is on the northern edge of the Woburn Consolidated pool. The northern part of the pool previously had produced from Cypress and Bethel sandstones, and at the south end production had been from Devonian and Trenton limestones. The Mississippian sandstones were the important pays in the pool. In 1955, 33 Devonian sandstone wells were completed on the northern end of the pool, separated from the southern Devonian and Trenton production by the Cypress-Bethel sandstone pool.

In 1954 the Woburn Consolidated pool had produced 65,000 barrels of oil; in 1955 production increased to 746,000 barrels, or more than 11 times. At the end of the year the limits of the Devonian sandstone area had not been defined.

Two other pools, Beaver Creek and Dudleyville East, had a combined total of about 10,000 barrels of oil for 1955.

Until 1955 Bond County was among the least important oil-producing counties in Illinois. As a result of the two Devonian sandstone pool discoveries in 1955, it seems probable that drilling will be above normal in Bond County in 1956 as efforts are made to find additional pools in that pay.

CHRISTIAN COUNTY

(FIG. 18, AREA 13)

Crude oil production in 1955 in Christian County reached a record high of 1,608,000 barrels. The previous high of 1,219,000 barrels had been produced when the Assumption Consolidated pool was at peak production in 1950.

Drilling dropped off sharply during 1955. Only 95 wells were completed in 1955, compared with 152 wells in 1954 when the Mt. Auburn area was being developed. However, 1955 was the third highest drilling year for the county, the highest being 1949 when Assumption Consolidated pool was developed. Of the 95 wells drilled in 1955, 43 were successful oil wells.

A remarkable degree of success was attained in wildcat drilling for the year. Three out of 22 (about 1 in 7) wildcat wells drilled more than two miles from production discovered new pools, compared with a state average of 1 out of 3 far wildcats successful. One other new pool and two extensions were discovered by 16 wildcat wells drilled less than two miles from production.

Two of the new pools, Tovey and Edinburg South, were discovered at the end of the year. Each had only one well completed and little oil produced. Both pays were Silurian in age.

The other new pools, Kincaid and Kincaid South, were discovered earlier in the year. Kincaid produced 210,000 barrels and Kincaid South 75,000 barrels. Both produce from the Hibbard pay zone in the Devonian. The Hibbard, named after the discovery well of the Kincaid pool, is sandy dolomite.

Edinburg West, discovered late in 1954, produced 509,000 barrels of oil in 1955; Assumption Consolidated produced 455,000 barrels; and Mt. Auburn Consolidated 345,000 barrels, more than half the oil produced by that pool since its discovery in 1943.

The remaining pools, Assumption South, Pana, and the Christian County part of the Blackland pool, produced a combined total of about 12,000 barrels during the year.

The oil fields of Christian County are confined to the eastern and northern townships. Production in the northern pools (Blackland, Edinburg West, Edinburg South, Kincaid, Kincaid South, Mt. Auburn Consolidated, and Tovey) is all from Devonian or Silurian pays. In two of the three eastern pools, Assumption Consolidated and Pana, there is Mississippian production. The Bethel sandstone produces in both pools and the Rosiclare in Assumption Consolidated, al-

though the Devonian is the best pay in the Assumption Consolidated pool.

Development of and production from Christian County's new pools forecast a good year for the oil industry in that county in 1956.

CLARK AND CUMBERLAND COUNTIES

(FIG. 11, AREA 6)

Clark and Cumberland counties are treated as a unit because it is impossible to separate production for the two counties to give even a reasonable estimate. Most of the production is from a group of pools discovered between 1904 and 1907. Production figures are not available for the individual pools in this group, which includes Westfield, Casey, Martinsville, Johnson North, Johnson South, Siggins, and York in Cumberland and Clark counties, and also Bellair in Crawford and Jasper counties.

Production in these old pools has been increasing for several years, mainly as a result of waterflooding. In 1955 they produced 1,886,000 barrels of oil, an increase of almost 300,000 barrels over the 1954 total. Most of the wells are old and very little new acreage is being developed. Secondary recovery (waterflood) operations throughout the area must be given credit for most of the current production.

Both counties also have pools discovered during the past 10 years that are separate from the older pool area. Two of these are in Cumberland County, both dating back to 1946. Hidalgo North has made 11,000 barrels of oil and produces between one and two thousand barrels annually. Lillyville, which extends into Effingham County, produced 9,000 barrels in 1955, for a total production of 236,000 barrels.

Seven oil pools have been discovered in Clark County since 1937. Five of these (Melrose, Melrose South, Oak Point West, Westfield East and Inclose) have produced little oil.

A sixth pool, Oak Point, was discovered in 1952, abandoned in 1953, and revived in 1954. Prior to 1955 two wells had been drilled, one completed in the Carper sandstone and the other in a Pennsylvanian sand-

stone. Neither had marketed oil through a pipe line. In 1955 sixteen Aux Vases wells were completed which produced about 20,000 barrels of oil. At the end of 1955 this was one of the areas of most active development in the state.

Most of the new-pool production in Clark County comes from the Weaver pool, a Devonian pool. In 1955, production was 131,000 barrels. Total production was 1,193,000 barrels.

Sixty-seven wells were reported drilled in Clark County and 10 in Cumberland County. These included 33 oil wells (all in Clark County), 29 dry holes in pools, and 15 wildcats. Most of the wells drilled in the water-flood areas of the old pools are not reported, and the actual number of wells drilled may have been as high as 200 to 300.

CLAY COUNTY

(FIG. 12, AREA 7)

Clay is one of the few important Illinois oil producing counties that showed fewer wells completed in 1955 than in 1954. The number of wells drilled decreased from 225 in 1954 to 199 in 1955, and Clay County dropped from third to seventh place in drilling. One of the earliest counties in the basin to be developed, Clay has been extensively drilled and is unlikely to show any notable increase in drilling unless profitable new deeper pays are found.

Production, however, increased in 1955 to an estimated total of 4,945,000 barrels. Approximately half of this amount is the estimated production from the part of the Clay City Consolidated pool within Clay County. Cumulative production for Clay County is about 76,360,000 barrels.

Only two wildcat wells were drilled more than two miles from production during 1955, both of which were unsuccessful. The 37 wildcats drilled less than two miles from production discovered eight extensions to pools. There was no new pool in the county in 1955. Drilling was for the most part confined to two pools—Sailor Springs Consolidated and Clay City Consolidated. About a hundred of the 113 producing wells drilled were in those pools, and almost three-fourths of the oil

produced in Clay County during 1955 came from the two pools. Three other pools, Iola Consolidated, Oskaloosa, and Stanford South, produced 200,000 or more barrels each. Twenty-two other pools produced lesser amounts of oil in 1955.

No commercial Pennsylvanian or pre-Mississippian production exists yet in Clay County. A few pools produce from the Cypress and Bethel sandstones, but most of the oil is from the Aux Vases sandstone or pays in the Ste. Genevieve.

CLINTON COUNTY

(FIG. 17, AREA 12)

Crude oil production for 1955 in Clinton County increased about 175,000 barrels over the preceding year, from 1,725,000 to 1,900,000 barrels although drilling showed one of the biggest drops for any county in the state.

Only 93 wells were completed in 1955, compared with 121 the previous year. The percentage of successful wells was low, but many new wells had unusually high initial productions. Thirty-one oil wells and two shut-in gas wells were completed. Unsuccessful wells included 27 dry holes in pools and 33 dry wildcats. The 31 producing wells include three successful wildcats, two of which discovered extensions to pools, and the third discovered a new pool, Boulder East. Only one well had been completed in Boulder East at the end of the year.

Estimated production for 1955 for Clinton County was about 1,900,000 barrels. The Centralia pool extends into Marion County, and division of production between the two counties necessarily has been estimated. Cumulative production for Clinton County is estimated at 47,575,000 barrels.

Boulder and New Memphis produced the greatest amount of oil in 1955, each making about 445,000 barrels. Three other pools, Centralia, Bartelso East, and Frogtown North, each produced 200,000 or more barrels of oil. Sixteen other pools produced a combined total of about 250,000 barrels.

During the past five years, eight new pools have been discovered in Clinton County. One is a small Cypress sandstone pool; a second produced from the Cypress but has been

abandoned. The other six produce from the Devonian and/or Silurian, and include two of the five big pools—New Memphis and Frogtown North. One of the five big pools, Bartelso East, produces from the Devonian-Silurian, and both Centralia and Boulder have considerable Devonian production. At least half of the oil now being produced in Clinton County is of pre-Mississippian age (the Trenton produces in the Shattuc and Centralia pools) and that percentage is increasing. There is a little Pennsylvanian oil production in the eastern part of the county.

COLES COUNTY

(FIG. 10, AREA 5)

Coles County had 49 wells drilled for oil or gas in 1955, the largest number for any year since 1946 when development of the Mattoon pool resulted in the drilling of 378 wells. In 1954 only 12 wells were drilled. Most of the 1955 drilling was the result of discovery of commercial production in the Cooks Mills area.

The Cooks Mills pool, discovered in 1941, consisted of two small, widely separated Rosiclare wells. In 1946 the Cooks Mills North pool, a single Rosiclare well, was discovered. Both pools were abandoned before the end of 1950 after they had produced a combined total of about 6,000 barrels of oil. In 1953 one oil well was completed, and in 1954 another.

Toward the end of 1955 a good area of Rosiclare production was found. By the end of the year eleven new Rosiclare wells and one McClosky well had been completed in the Cooks Mills Consolidated pool, and six Rosiclare wells and one Aux Vases-Rosiclare well in Cooks Mills East.

One Aux Vases and three Cypress gas wells were completed in 1955 in the Cooks Mills Consolidated pool; one had an initial open-flow capacity of about 24,000,000 cubic feet, and is one of the biggest gas wells ever drilled in the state. All of the gas wells were shut in until an outlet could be found. At the end of the year the Cooks Mills area was one of the two being most actively developed in Illinois. New wells were being started almost daily, producing wells were scattered

over an area about three miles long and a mile wide, and the limits of production were not yet established. Production in the pool increased from 3,000 barrels in 1954 to 65,000 in 1955, and the Cooks Mills East pool, discovered at the end of 1954, produced 15,000 barrels in 1955.

The only other oil pool in Coles County is Mattoon, which produced 462,000 barrels of oil in 1955. Three producing wells were completed in the Mattoon pool, including one in the Carper sandstone, a new pay, the deepest in the pool.

The 49 wells drilled in Coles County included 22 oil wells, four shut-in gas wells, 13 dry holes in pools, and 10 unsuccessful wildcats. One new pool was discovered, Cooks Mills Gas, lying between Cooks Mills and Cooks Mills North. Before the end of the year the three pools had been consolidated to form the Cooks Mills Consolidated pool. Three extensions to pools also were discovered in the county.

Two old pools, Westfield and Warrenton-Borton, extend into Coles County, but now produce little or no oil there, so their complete production has been assigned to another county. Exclusive of these two pools, Coles County produced 542,000 barrels of oil in 1955, bringing total production for the county up to 11,704,000 barrels, 11,613,000 barrels of which has been produced by the Mattoon pool.

CRAWFORD COUNTY

(FIG. 9, AREA 4)

In 1955 Crawford County completed 233 wells to rank fifth in Illinois in number of wells drilled. This is an increase in drilling over 1954 (219 wells), but a drop in rank (from fourth place) because of the abnormal concentration of drilling in Saline County.

Crawford County has been one of the best producing counties in the state since 1906. Most of the drilling was done prior to 1937, about 9,000 producing wells being drilled in the 30-year period. When the Illinois basin was opened up in 1937, Crawford County drilling dropped off to about a dozen wells a year.

In 1953 a new period of development began and production rose to 2,427,000 barrels in 1954, and then to 2,599,000 barrels in 1955. Total production for the county is 179,660,000 barrels.

Only two new pools have been discovered since 1937, New Bellair and New Hebron East, and they have produced only about 10,000 barrels. Credit for stabilizing and increasing production should be given to secondary recovery operations, which are extensive and successful. The amount of new drilling is not sufficient to compensate for the drop in production caused by the depletion and abandonment of wells drilled 40 or 50 years ago. The 233 wells drilled in 1955 include 130 oil wells in pools, one gas well, 84 dry pool wells, and 18 wildcats, three of which were successful. About 65 of the new wells were in Pennsylvanian pays and 35 in Bethel; the remainder included both upper and lower Mississippian pays.

DOUGLAS COUNTY

(FIG. 10, AREA 5)

The first producing oil well in Douglas County was drilled in 1955. The Gallatin Drilling Company 1 John Wagner in sec. 26, T. 16 N., R. 10 E., completed November 1 as a shallow Pennsylvanian sandstone well, had an initial production of eight barrels per day. This was the discovery well of the Murdock pool. By the end of the year two dry holes had been completed in the pool, but no other producing well. It is doubtful that economically profitable production will be obtained in the Murdock pool.

The amount of exploratory drilling that has been done in Douglas County is small, varying from none in some years to a maximum of four a year until 1955. In addition to the Murdock discovery well and two dry holes drilled in 1955, nine wildcat wells were completed. The best prospects for 1956 in Douglas County are in its extreme southern part. At the end of 1955 producing wells in Cooks Mills East in Coles County were about half a mile from the Douglas County line.

Douglas County is near the northern edge of the most favorable area for oil produc-

tion, but as a result of the recent development in the Cooks Mills area it merits serious consideration for scientific exploratory drilling.

EDGAR COUNTY

(FIG. 10, AREA 5)

Drilling in Edgar County in 1955 was about normal, 23 wells having been drilled for oil or gas. Two were completed as oil wells in the Dudley pool, and one, a small Pennsylvanian sandstone gas well, discovered a new pool, Redmon North. The other 20 wells included five dry holes in pools and 15 unsuccessful wildcats.

Production in the Dudley pool showed an increase of about 6,000 barrels over 1954 figures, bringing it up to 63,000 barrels for 1955. Elbridge pool production dropped to 61,000 barrels in 1955, a decrease of 15,000 barrels. This is the first year in which Dudley, a Pennsylvanian sandstone pool, has produced more oil than Elbridge, a Fredonia limestone pool. Dudley, discovered a few months earlier than Elbridge, has produced 584,000 barrels compared with 1,226,000 barrels for Elbridge.

Production from other pools in Edgar County is insignificant. Warrenton-Borton, one of the oldest pools in the state, has produced about 32,000 barrels of oil since its discovery in 1907 and is currently producing a few hundred barrels annually. Oil production in the Inclose and Grandview pools has been insignificant.

Two pools, Redmon North and Dudley West, each consist of one gas well, and Inclose and Grandview are essentially gas pools. A few of the gas wells have been used by farmers, and two have furnished unmetered gas to the town of Grandview. However, none of the wells can be considered a truly commercial producer.

EDWARDS COUNTY

(FIG. 8, AREA 3)

Both drilling and production in Edwards County were higher in 1955 than in 1954, but neither was significantly so, corresponding to increases for the state as a whole. Eighty-four wells were drilled, an increase of 22, and production was estimated at

1,596,000 barrels, an increase of 165,000 barrels—less than one day's production for the state.

The 84 wells completed in 1955 include 35 oil wells and 29 dry holes in pools, and eight successful and 12 unsuccessful wildcats. Two new pools were discovered, Albion Central and Samsville Northwest. Both are in areas which have been extensively developed, so neither can become very large without being consolidated with an older pool. The other six successful wildcats were extensions to pools.

Changes in rate of production for most of the pools were small. The one big change was in the Albion Consolidated pool, which produced 881,000 barrels in 1955 in Edwards County (pool extends into White County), an increase of 182,000 barrels for the year. Albion Consolidated is now responsible for more than half the oil produced in Edwards County. During the past 10 years production has fluctuated between 6,000,000 and 9,000,000 barrels annually, secondary recovery and new well drilling having prevented normal decline.

Four other Edwards County pools made between 90,000 and 120,000 barrels each during 1955: Parkersburg Consolidated, Maple Grove Consolidated, Ellery Consolidated, and Ellery East. Most of the 17 other producing oil fields are small in size with little production. Albion East, Bone Gap Consolidated, Browns, Phillipstown Consolidated, and New Harmony Consolidated have all produced large quantities of oil, but are old, and production has dropped off considerably. Many of the pools in Edwards County extend into other counties. All data as given apply only to those portions of such pools as lie within Edwards County.

All production in Edwards County has been from Mississippian or Pennsylvanian pays, the latter being important only in Albion Consolidated. There has been very little testing of the pre-Mississippian formations. The Pennsylvanian and Mississippian probably have been more intensively tested in Edwards than in any other county except Wabash, so the future of Edwards

County depends to a great extent upon expansion of secondary recovery operations and possible development of deeper pays.

EFFINGHAM COUNTY

(FIG. 16, AREA 11)

Drilling and production both increased in Effingham County in 1955. One pool, Hill East, a 1954 discovery, must be given credit for both increases. The number of wells drilled increased from 39 in 1954 to 58 in 1955; 24 of the latter were producers. Twenty-three of these were in Hill East. The 34 dry holes included 22 in pools and 12 wildcats. No new pool was discovered, but three of the new producing wells in Hill East were drilled as wildcats and completed as pool extensions. Prior to 1955, production in Hill East was from the Ste. Genevieve; 21 of the 1955 wells were completed in the Cypress sandstone.

Effingham County production for 1955 was 553,000 barrels, 80 percent of which came from its three largest pools. One of these was Hill East. The other two, Sailor Springs Consolidated and Iola Consolidated, have their major area and production in Clay County. The Loudon pool, which has a small extension from Fayette into Effingham County, produced about 54,000 barrels of oil in 1955, or another 10 percent of the county's production. The remaining 10 percent came from eight small pools (Mason North, Evers, Lillyville, Eberle, Bible Grove North, Mason, Elliottstown East and Elliottstown North). Effingham County has produced a total of about 7,218,000 barrels of oil.

Oil production in Effingham County is limited to a small part of the stratigraphic section. There are no wells in strata younger than the Cypress sandstone or older than the Ste. Genevieve limestones.

FAYETTE COUNTY

(FIG. 16, AREA 11)

Although only 18 wells, 14 of which were dry, were drilled in Fayette County in 1955, production for the year increased and the county remained among the leading oil producers in Illinois.

Fayette County is unique in that although only five pools have been discovered and most of its production comes from one pool, yet it is habitually one of the four leading producing counties. Most of the drilling in the county was done between 1937 and 1942. Discovery of an extension to the Loudon pool brought a period of increased activity during 1949 and 1950. Except for these two periods, the normal rate of drilling has averaged about 20 to 30 wells per year. In 1955, with only four new producing wells for the year, Fayette County's production was the highest for any year since 1946.

Fayette County in 1955 produced 8,075,000 barrels of oil, making a total production of 202,140,000 barrels. The Loudon pool produced 7,654,000 barrels in 1955 for an all-time total of 188,041,000 barrels. St. James, the second largest pool, made 380,000 barrels in 1955 for a total of 13,336,000 barrels. St. Paul, Patoka West, and Laclede had a combined production of less than 40,000 barrels.

In 1955 a well in the Loudon pool was successfully deepened to the Trenton, becoming the first Trenton well in the county. The initial production was 21 barrels of oil and 400 of water, so the Trenton cannot yet be considered a commercial pay zone. Most of the oil in the county is being produced from the Cypress, Paint Creek, and Bethel sandstones and from the Devonian limestone (in Loudon only), but there is minor production from the Pennsylvanian and from other Mississippian pays.

FRANKLIN COUNTY

(FIG. 15, AREA 10)

The amount of drilling in Franklin County has fluctuated more than that in most counties. The 1955 total of 53 wells drilled is an increase of 17 wells over 1954 and is about the median rate since 1937. The 1955 wells included 27 oil wells, 12 dry holes in pools, and one successful and 13 unsuccessful wildcats. The one successful wildcat discovered a pool extension rather than a new pool.

Benton is the only big pool in the county. It is now producing about two-thirds of the Franklin County oil, and has produced about

three-quarters of the total production. The Benton pool was the first big waterflood project in the state; it is now producing a little less than half as much oil as at the peak of secondary recovery production. This, however, is almost three times higher than 1949 production, before the waterflood program was in effect. Production for 1955 was 1,441,000 barrels bringing total production for the pool up to 31,659,000 barrels.

Four other pools, Benton North, Christopher Consolidated, West Frankfort, and Whittington, each produced between 100,000 and 200,000 barrels for the year. Dale Consolidated and Sesser each made between 85,000 and 90,000 barrels. The nine other active pools had a combined 1955 production of 160,000 barrels. One of these, Thompsonville North, has produced more than 1½ million barrels of oil in the past 10 years, but production has now dropped to a low rate. Total production in the county for the year was 2,285,000 barrels of oil, bringing the cumulative total up to 41,887,000 barrels.

The Tar Springs sandstone is the best oil pay in the county and the only pay in the Benton pool. Most of the wells drilled in 1955 produce from the Aux Vases sandstone, which currently is the second most productive sandstone in Franklin County.

HANCOCK AND McDONOUGH COUNTIES

Hancock and McDonough counties share a single oil pool and are treated as a unit because production cannot be separated.

In 1955 there was a little more drilling than usual in the two counties. McDonough had 12 wells completed—two oil wells, three dry holes in pools, and seven wildcats. Hancock had only three wells—one dry pool test and two wildcats.

Oil production from the Colmar-Plymouth pool was 71,000 barrels in 1955, a slight increase over 1954. Total production for the two counties is 4,013,000 barrels.

There is no reason for anticipating any considerable variation in amount of drilling or production in the next few years.

GALLATIN COUNTY

(FIG. 7, AREA 2)

In 1955 drilling more than doubled and production almost doubled the 1954 figures in Gallatin County. More wells were drilled than in any other year except 1948, and production was higher than in any other year except 1949. The county ranked sixth in the state in drilling for 1955.

Two hundred wells were completed, including 118 oil wells, 55 dry holes in pools, and 27 unsuccessful wildcats. The 118 new oil wells include 14 successful wildcats that discovered one new pool (Elba) and 13 extensions to pools. The ratio of one out of every three wildcats successful is extremely high, but most of the wildcats were drilled within a mile of production.

There was no concentration of drilling in any one pool as in some other counties. Producing wells were drilled in 14 pools. Herald Consolidated had 35 new wells, Inman West Consolidated 30, and Inman East Consolidated 21. Most of the other pools had only two or three new wells.

The biggest production gain was in the Inman East Consolidated pool, which produced 1,034,000 barrels of oil for the year. Herald Consolidated and Roland Consolidated, both of which have most of their productive acreage in White County, produced about half a million barrels each. The three pools more than doubled their 1954 production. Inman West Consolidated, the only other big pool in the county, produced 379,000 barrels, very slightly increasing its 1954 mark.

The above four pools produced 2,418,000 barrels of the county's 1955 oil production of 2,675,000 barrels. About half of the remainder came from the Omaha pool and the rest from 10 small pools. Gallatin County has produced about 22,936,000 barrels of oil.

Three of the oil wells drilled in Gallatin County in 1955 produce from the Pennsylvanian. The others produce from all of the upper Mississippian pays and from the Ste. Genevieve. There is no older production in the county.

HAMILTON COUNTY

(FIG. 6, AREA 1)

Hamilton County made impressive gains in 1955. It jumped from fifteenth place with only 77 completions in 1954 to eighth place with 191 completions in 1955. In 1954 only 42 percent of Hamilton County wells were completed as producers; in 1955, 58 percent were successful. Production for 1955 was 3,846,000 barrels, an increase of about half a million barrels over 1954. Total production for the county rose to 75,588,000 barrels.

Of the 191 wells drilled in 1955, 110 were producing wells, 58 were dry holes in pools, and 23 were wildcats.

Most of the new production for 1955 was at the southwest end of the Dale Consolidated pool in the southwestern corner of the county. Almost all the new wells, including those in other pools, produce from the Aux Vases sandstone. Initial daily productions were high, averaging nearly 300 barrels per well compared with an average of less than 100 barrels for all new wells in the state. Many of the wells had daily initial productions of 500 barrels or more. Most of the wells were fractured during the completion process.

The Dale Consolidated pool had 94 new producers within the limits of Hamilton County, all but one of which were completed in the Aux Vases sandstone. Production of Dale Consolidated in 1955 increased almost half a million barrels, reaching 2,804,000 barrels and raising its total to 54,430,000 barrels. During the year Rural Hill West, Cantrell Consolidated, West End, and Flannigan were consolidated with Dale Consolidated.

One other pool, Bungay Consolidated, also showed noteworthy increases in 1955. Fourteen Aux Vases sandstone wells were completed. Production increased 300,000 barrels, the total for 1955 being 802,000 barrels, and the cumulative total 8,687,000 barrels.

Three other pools, Mill Shoals, Thackeray, and Walpole, produced over 100,000 barrels each in 1955, but in general there was little

drilling and production declined outside of the Dale Consolidated and Bungay Consolidated pools.

Although the southwestern end of the Dale Consolidated pool was still being developed at the end of the year, it seemed probable that much of this development in 1956 would be in Saline and Franklin Counties.

JACKSON COUNTY

(FIG. 23, AREA 18)

No oil production was reported for 1955 for Jackson County. There are two pools, one of which, Ava-Campbell Hill, was abandoned in 1943. Elkville, a one-well pool, has had no pipe line runs in the past four years.

Five wells, two of them dry holes in pools and the other three unsuccessful wildcats, were drilled in 1955. This is about the usual amount of drilling. There is no reason for anticipating any change in 1956.

JASPER COUNTY

(FIG. 13, AREA 8)

Jasper County showed outstanding gains in both drilling and production in 1955. In 1954 it had ranked twenty-third in drilling in Illinois, with only 27 wells completed; in 1955 it ranked ninth, with 165 wells completed.

Wells drilled in 1955 included 117 oil wells, 30 dry holes in pools, and 18 unsuccessful wildcats. Two wildcat wells were successfully completed as extensions to the Clay City Consolidated pool. All the new oil wells were in the Clay City Consolidated pool.

Part of the new drilling was development of a deeper pay zone under land already producing. A new Salem limestone producing area had been discovered at the end of 1954 underlying Rosiclare and McClosky production. In 1955, 53 Salem wells were drilled in the Clay City Consolidated pool, most of them in areas already producing. Most of the other wells were edge wells completed in the Ste. Genevieve. The Clay City Consolidated pool lies in four counties and the production noted for the Jasper County portion is an estimate. New drilling in 1955 is estimated to have increased production to

about 2,000,000 barrels, an increase of about half a million barrels. Total production for the Jasper County portion of Clay City Consolidated is estimated at 27,000,000 barrels.

There are nine other active oil pools in Jasper County. Combined production for the nine for 1955 was 104,000 barrels, a decrease of about 5,000 barrels from the 1954 total. Eight other pools are abandoned or shut down. Total production for all Jasper County pools, excluding Clay City Consolidated, amounts to 3,007,000 barrels.

By the end of 1955 the drilling peak appeared to have passed, indicating a decrease in drilling for 1956, but drilling should continue at a higher rate than in 1954.

JEFFERSON COUNTY

(FIG. 15, AREA 10)

Drilling dropped off a little in 1955 in Jefferson County after reaching a higher than normal rate in 1954. There were 85 wells drilled, 43 of which were completed as producers, 27 as dry holes in pools, and 15 as unsuccessful wildcats. No new pool was discovered, but two of the 43 successful wells were drilled as wildcats and completed as extensions to pools.

Production for Jefferson County in 1955 was 2,506,000 barrels, an increase of 235,000 barrels for the year. Total production to the end of 1955 was 47,515,000 barrels.

Most of the 1955 drilling was confined to two pools: King with 17 new oil wells and Irvington East with 16. The new wells in the King pool produce from the Aux Vases sandstone.

In the Irvington East pool, four Pennsylvanian sandstone wells had produced 7,000 barrels of oil in the four years from 1951 to 1954. In 1955 two new pays, the Cypress and Bethel sandstones, were discovered in Irvington East, and the sixteen 1955 wells produce from these two pays. Production for the year was 65,000 barrels.

About 2,000,000 barrels of the 1955 production came from the five largest pools, two of which had substantial increases. Boyd, which has the largest annual production, shows the results of waterflooding in its increase in production from 557,000 barrels in

1954 to 689,000 barrels in 1955. The Jefferson County portion of Salem Consolidated produced 403,000 barrels in 1955, an increase of 87,000 barrels.

Except for Irvington East, as noted above, all other pools showed declines or only minor increases in production. As most pools in Jefferson County are from eight to fifteen years old, declines in production are to be expected except where secondary recovery operations are effective.

LAWRENCE COUNTY

(FIG. 9, AREA 4)

Lawrence County pools and production are considered in two groups—pools discovered in 1906 (Lawrence and St. Francisville), and pools discovered since 1937.

Development of the Lawrence pool occurred for the most part within 10 or 15 years from the date of its discovery. For the following 30 years, and especially after 1937, there was only a small amount of drilling. Annual completions for Lawrence County averaged about 20 wells and rarely exceeded 50. In the last three or four years, however, interest in testing for new pays in the old Lawrence pool has grown. As a result, 157 new oil wells were added to the Lawrence pool in 1955. Clay City Consolidated is the only Illinois pool to exceed this number. Two new oil wells were drilled in the St. Francisville pool also. Production from the two pools in 1955 was 3,479,000 barrels, an increase of about 600,000 barrels over 1954. Total production for the two pools to the end of 1955 was 257,811,000 barrels.

Twelve pools have been discovered since 1937, including two discovered in 1955. The 1955 discoveries, Pinkstaff East and Russellville West, each consisted of a single well at the end of the year with no more drilling in prospect.

Three of the 12 pools have been abandoned, and most of the others are small. In Russellville Gas, once the biggest gas pool in Illinois, the Pennsylvanian gas has been depleted and one well, deepened to the McClosky, is producing about 1,000 barrels of oil per year.

Production from the post-1937 pools was about 355,000 barrels in 1955, making their cumulative production about 3,562,000 barrels, little more than the Lawrence pool produced in 1955. Most of the 355,000 barrels came from 4 pools: Ruark (117,000 barrels), Ruark West Consolidated (131,000 barrels), Lawrence West (71,000 barrels), and St. Francisville East (22,000 barrels).

Lawrence is one of the counties that showed large increases in drilling in 1955. The number of wells completed jumped from 141 in 1954 to 255 in 1955, putting Lawrence in third place in the state behind White and Saline counties. Of the 255 wells reported completed in Lawrence County, 175 were oil wells, 63 were dry holes in pools, and 17 were unsuccessful wildcats. Secondary recovery operations are extensive in the Lawrence pool, and the Basin Scout Association seldom reports wells drilled on such projects, so the number of wells actually drilled in Lawrence County may be much greater than the above figures indicate.

MACON COUNTY

(FIG. 18, AREA 13)

Macon County's "oil boom," which began in December 1953 and extended through 1954, almost ended in 1955. Well completions dropped from a high of 49 in 1954 to 17 in 1955. Only one of the 17 wells was successful. There were four unsuccessful pool tests and 12 unsuccessful wildcats. The producing well was in the Oakley pool.

Four pools in Macon County had production in 1955. The 10 wells in the Macon County part of the Blackland pool produced 93,000 barrels of oil for the year. The other three pools, Decatur, Oakley, and Harris-town, produced 11,000 barrels from a combined total of 13 wells. Total production for 1955 was 104,000 barrels, which brought the total production for the county to 191,000 barrels, 171,000 of which has come from the Blackland pool.

All the Macon County wells produce from the Silurian or Devonian. It seems doubtful that many of the wells producing in 1955 will pay for themselves. Unless a new and better pool is discovered, drilling in Macon

Marion County portion of the Salem Consolidated pool, increased to 7,210,000 barrels in 1955.

Production during 1955 was about 8,725,000 barrels from pools discovered since 1937 and about 50,000 barrels from old pools. Production in 1954 was about 6,500,000 barrels. Total production is about 284,725,000 barrels. Drilling dropped from 182 completions in 1954 to 92 completions in 1955, including 52 oil wells, 21 dry holes in pools, and 19 unsuccessful wildcats. A total of 24 wildcat wells were drilled, five of which were successful and discovered two new pools (Exchange East and Iuka West) and three extensions to pools. Most of the new oil wells were in the Iuka, Exchange East, and Salem Consolidated pools, and produce from the Ste. Genevieve or St. Louis formations.

The Exchange East pool is one of the best pools discovered in 1955 in Illinois. By the end of the year it had 12 oil wells and had produced 78,000 barrels of oil.

The Iuka pool, discovered in 1947, had little drilling or production before 1954. In 1954, 16 oil wells were completed and in 1955, 18 were completed. Production for 1955 was 306,000 barrels out of a total of 462,000 barrels cumulative production.

An unsuccessful Devonian test was drilled in the Iuka pool, but no new pre-Mississippian production was discovered in Marion County in 1955.

Marion County ranks first in the state in total production. Although many counties have more drilling and White County now leads in annual production, the size and success of the Salem secondary recovery project should keep Marion County in first place for cumulative production for several years more.

MONROE COUNTY

(FIG. 24, AREA 19)

Monroe County has been an oil producing county, but can scarcely be considered as such at present.

Its only pool, Waterloo, was discovered in 1920 and most of it converted into underground gas storage in 1951. Three producing wells were left at the south end of the

pool. Total production for the pool is about 37,000 barrels, and the amount produced since 1951 is insignificant.

One well, a dry hole, was drilled in the Waterloo pool in 1955.

MONTGOMERY COUNTY

(FIG. 20, AREA 15)

Montgomery County is the oldest oil producing county in Illinois, but its pools are small and the wells low in production. In about 75 years of production, Montgomery probably has produced less than 75,000 barrels of oil.

The two newest pools, Raymond East and Panama, produced about 5,000 barrels of oil in 1955. The other four pools, Litchfield, Mt. Olive, Raymond, and Waggoner, are abandoned or shut down for the most part, but occasionally produce a little oil.

Of the 15 wells drilled in Montgomery County in 1955, four were completed as dry holes in pools, and 11 as unsuccessful wildcats.

MORGAN COUNTY

Seven wells were drilled in Morgan County in 1955—one gas well in the Prentice pool, three pool dry holes, and three dry wildcat wells.

The Prentice pool, discovered in 1953, consists of six gas and two oil wells. No oil or gas has been marketed. The pay zone is a shallow Pennsylvanian sandstone.

The Waverly pool, discovered in 1946, has had one Devonian oil well and one Pennsylvanian and seven Devonian gas wells completed. No oil has been marketed. In 1954 an attempt was begun to use the Waverly pool for underground storage of gas. Earliest results were unsatisfactory, but experimental work continued in 1955.

Morgan County has had one other gas pool, Jacksonville, which was discovered in 1910 and abandoned in 1939. Amount of gas produced is not known.

There is no good oil or gas production within 20 miles of Morgan County at present. Although more wells similar to those at Waverly and Prentice may be drilled, it

County probably will revert to its pre-1954 rate with only five or six wells drilled per year.

MACOUPIN COUNTY

(FIG. 20, AREA 15)

Although oil was discovered in Macoupin County almost 50 years ago (in 1909), producing wells have been few in number and production insignificant.

Nineteen wells were drilled in 1955, 5 dry holes in pools and 14 wildcats. One of the pool dry holes was a Trenton test in the Carlinville pool. Carlinville, the oldest pool in the county, has some unplugged wells that occasionally are pumped. The other old oil pool, Gillespie-Wyen, also produces a little oil occasionally.

Three gas pools, Spanish Needle Creek, Staunton, and Gillespie-Benld, have been abandoned.

Four oil pools have been discovered in the past 15 years. Three of these, Plainview, Staunton, and Staunton West, consist of a single well each. Most of the wells in Carlinville North, the fourth pool, have been abandoned. Production from wells that have not been plugged in the four pools is intermittent and totals at most a few hundred barrels a year. Total production for the county is unknown, but it probably is only a few thousand barrels.

All production in Macoupin County is Pennsylvanian in age. Most of the county is outside the area believed to have the best prospects for future development, so it is doubtful that Macoupin will ever be an important oil-producing county.

MADISON COUNTY

(FIG. 22, AREA 17)

The year 1955 was one of the least successful for the oil industry in Madison County since 1943. Of 34 wells drilled, four were completed as shallow Pennsylvanian sandstone oil wells in the Livingston South pool, 15 were dry holes in pools, and 15 were unsuccessful wildcats.

One new pool was named in 1955. The discovery well originally was completed as a temporarily abandoned well, then put on

the pump in 1954. By the end of 1955 it had produced 1,000 barrels of oil and was named the discovery well of the St. Jacob East pool. Production is from the Sylamore sandstone in the Devonian system.

About three-fourths of the Madison County production comes from the Silurian reef and the overlying Devonian limestones of the Marine pool. The pool produced 349,000 barrels in 1955, bringing its total production up to 9,271,000 barrels.

The St. Jacob pool is second in importance, with a production record of 70,000 barrels for 1955 and a total of 2,741,000 barrels, all from the Trenton limestone.

The Livingston and Livingston South pools produce from a shallow Pennsylvanian sandstone. Their combined production was 68,000 barrels for 1955; cumulative production for the two pools is 454,000 barrels.

Livingston East consists of a single gas well that has been shut in since completion.

Madison County has produced 12,469,000 barrels of oil, including 1,000 barrels from the old abandoned Collinsville pool. Production in 1955 was 488,000 barrels.

There is no Mississippian oil production in Madison County. Three pools produce from the Pennsylvanian, two from the Devonian and/or Silurian, and one from the Trenton.

MARION COUNTY

(FIG. 17, AREA 12)

In 1955 Marion County recorded a decided increase in production, but one of the biggest decreases in drilling for any county in the state. The Salem Consolidated pool was almost entirely responsible for both changes.

During 1953 and 1954 a Rosiclare sandstone extension to the Salem Consolidated pool was being developed. By the end of 1954 it was almost drilled up, and only a few holes were completed in 1955. The 1954 drilling may be responsible for some of the increased production. Most of it, however, is due to expanded, highly successful waterflooding in the Salem Unit of the Salem Consolidated pool. Production, which had been about 5,000,000 barrels annually in the

is doubtful that Morgan County will ever be really productive.

MOULTRIE COUNTY

(FIG. 19, AREA 14)

Oil development in Moultrie County in 1955 was the most promising in its history. Previously the county had one pool, Gays, consisting of a single Aux Vases well. Discovered in 1946, Gays was abandoned in 1950 after producing less than 500 barrels of oil.

In 1955, nine wells were completed in the county, of which four were producing wells in the revived Gays pool. Three of these wells were reported as producing from the Aux Vases sandstone and one as a dual completion in the Aux Vases and the Devonian.

For the first few months of 1955 considerable interest was shown in Moultrie County. However, the four producing wells were small, their production for the year being only 11,000 barrels. Two dry holes were drilled in the pool, and three unsuccessful wildcats.

PERRY COUNTY

(FIG. 14, AREA 9)

Thirteen wells were drilled in Perry County in 1955, all of which were unsuccessful wildcats. This is slightly above the average amount of drilling for Perry County. In 1952, when the Tamaroa pool was being developed, 33 wells were drilled. However, the normal annual rate is between five and ten wells.

The Tamaroa pool, producing from the Cypress sandstone, made 20,000 barrels of oil in 1955 for a total of 167,000 barrels. There are two Cypress gas wells in the pool, but no gas has been marketed.

The only other pool in Perry County is the Craig pool, consisting of one abandoned Trenton well that made about 2,000 barrels of oil.

Although results of testing in Perry County have been disappointing, it lies within the area having the best possibilities for oil accumulation. Further exploratory drilling in Perry County is needed to determine its oil potential.

PIKE COUNTY

(FIG. 21, AREA 16)

The Pittsfield, or Pike County, gas pool was discovered in 1886 and is the second oldest pool in Illinois. Only Litchfield, in Montgomery County, is older. However the gas was not marketed until 1905, by which time several other pools had been discovered in the western part of the state.

The Pittsfield Gas pool consisted of 68 gas wells covering almost 9,000 acres, nearly half the total acreage of the state's gas pools. The pool was abandoned in 1930 and no production data are available. The pay was in the Silurian.

During the 25 years following the abandonment of the Pike County gas pool, an average of one or two dry holes was drilled annually in the county.

In 1955 a second gas pool, Fishhook, was discovered. By the end of the year six gas wells had been completed in the pool, five in Pike County and one in Adams. All were shut in. More wells were being drilled as 1955 ended, but no commercial outlet for the gas had been found. Production is from the Silurian at a depth of about 500 feet.

In addition to the gas wells, five dry wildcats also were completed in 1955. A sufficient number of wells were being drilled at the end of the year to indicate that 1956 would be one of Pike County's biggest drilling years.

RANDOLPH COUNTY

(FIG. 24, AREA 19)

As a result of the discovery of the Tilden pool in 1952, drilling in Randolph County had averaged between 20 and 25 wells annually for three years. Only 10 wells were drilled in Randolph in 1955, three of them producers—two in the Tilden pool and one in Baldwin. Seven were unsuccessful wildcats.

Randolph County production is almost entirely from the Tilden pool. Since its discovery in 1952, Tilden has produced 1,591,000 barrels of oil, including 300,000 barrels during 1955.

The only other oil pool in Randolph County is Baldwin, which has two wells and

has produced less than 4,000 barrels of oil, all of it during 1955.

The Sparta area produced a little Cypress gas and oil between 1888 and 1900 and again in 1949. Production data are lacking, but quantities of both oil and gas were negligible. The Silurian, which produces in both Tilden and Baldwin pools, is the only commercial pay in Randolph County.

RICHLAND COUNTY

(FIG. 13, AREA 8)

Richland County was one of the few important oil producing counties to show a decrease in drilling in 1955 in contrast to the increase for Illinois as a whole. The number of completions dropped from 122 in 1954 to 113 in 1955.

The percentage of successful completions was high, 78 of the 113 wells being completed as producers. Dry holes included 26 pool tests and 9 wildcats. One new pool, Wakefield South, was discovered. At the end of the year only one well had been completed in the new pool and no additional drilling had been started.

Most of the production in Richland County is from the Clay City Consolidated pool. Estimated production for 1955 in the Richland County part of the pool was 2,000,000 barrels, making an estimated cumulative total of 42,000,000 barrels.

Excluding the Clay City Consolidated pool, Richland County has produced about 16,555,000 barrels of oil, of which 645,000 barrels was produced in 1955. This oil has come from 21 pools, including five that produced no oil during 1955 and 10 that produced less than 15,000 barrels each. Most of the oil has come from six pools: Calhoun Consolidated, Dundas East, Olney Consolidated, Olney South, Parkersburg Consolidated, and Stringtown.

Most of the Richland County pools were discovered and developed in the late 1930's or early 1940's. New pool discoveries in the past 10 years have been rare and of minor importance. In 1955 only 12 wildcat wells were drilled. In proportion to total drilling, this is only about one-third as high as the rate for the entire state. All 12 were less

than two miles from production. Three were successful, discovering Wakefield South and two extensions to pools.

The future of Richland as an oil industry county appears to be in the expansion of secondary recovery operations and the development of new pay zones rather than in the discovery of new pools. Only a few wells now produce from pre-Ste. Genevieve pays in the Mississippian, and less than a dozen tests have been made to the Devonian or deeper pays.

ST. CLAIR COUNTY

(FIG. 24, AREA 19)

A new pool, Freeburg South, was discovered in St. Clair County in 1955. The discovery well had an initial production of eight barrels of oil and 11 of water from the Cypress sandstone. One dry offset well was drilled in December, and a well drilled prior to the discovery of the pool formed a second dry offset. Prospects for further development of the pool are slight.

Sixteen wells were drilled in St. Clair County in 1955, 14 of them unsuccessful wildcats, one the successful wildcat that discovered Freeburg South, and one a dry hole offsetting the latter well.

Dupo remains the only commercial pool in St. Clair County. Discovered in 1928, it had produced 2,810,000 barrels of oil by the end of 1955. The entire pool was shut down late in 1954, but 30 wells were put back into production in 1955 and produced 28,000 barrels during the year.

SALINE COUNTY

(FIG. 6, AREA 1)

Saline County, which ranked ninth in the state in number of wells drilled in 1954, moved up into second place in 1955. The number of wells completed increased from 140 in 1954 to 335 in 1955. Most of the 1955 drilling was in the Eldorado area, and was discussed above.

The 335 wells include 193 oil or gas wells, 87 dry holes, and 75 unsuccessful wildcats. Eight new pools were discovered: Cottage Grove, Eldorado West, Francis Mills South, Harco East, Harrisburg South, Long Branch South, Mitchellsville, and Raleigh South.

At the end of the year none of the new pools had more than two wells except Raleigh South, which had six. Harco East, with two wells completed, had others drilling and looked promising. There were also 13 new extensions to pools in Saline County during the year.

Saline County oil production showed a very great increase in 1955, most of it from the Eldorado Consolidated pool. Until 1953 peak production for the county had been 79,000 barrels in 1946. In 1953, when development of the Eldorado area began, production was 204,000 barrels. In 1954, it jumped to 791,000 barrels, and in 1955 to 4,099,000 barrels. Total production for the county, from 1941 when the first pool was discovered, through 1955, is 5,551,000 barrels.

Production was reported for 16 pools in 1955. Two others were abandoned, and two were late-year discoveries that had not yet marketed oil by the end of the year. Ten of the 16 pools reported production for the year of 1,000 to 16,000 barrels. The Eldorado Consolidated pool produced 3,523,000 barrels, or about 86 percent of the county's total production. The remaining $\frac{1}{2}$ million barrels came from the five other biggest pools in the county: Eldorado East, Dale Consolidated (formerly West End), Harrisburg, Raleigh, and Raleigh South.

Both drilling and production rates decreased in the latter part of 1955, but should remain comparatively high in 1956, although below the 1955 level unless a new Eldorado area of production is discovered.

SANGAMON COUNTY

(FIG. 18, AREA 13)

At the end of 1954 hopes were high for the discovery and development of oil pools in Sangamon County during 1955, although only three oil wells had previously been completed there. Two of these had been drilled in the Roby pool, one in 1949 (abandoned in 1951) and one in 1954. The third well was the discovery well of the New City pool, drilled in December of 1954, when exploratory drilling moved westward from the rap-

idly developing Decatur-Mt. Auburn area into Sangamon County.

In 1955 two more oil wells were added to the New City pool, one new pool (Glen-arm) was discovered, and four wells in the Edinburg West pool (a Christian County pool) were drilled in Sangamon County. In 1955 Sangamon County marketed its first oil through regular pipeline outlets. The Edinburg West wells produced 31,000 barrels and the New City pool 28,000, making a 1955 total of 59,000 for the county.

There was no drilling in Sangamon County in 1953. In 1954, seventeen wells were drilled, and in 1955 the number increased to 49. Only seven were successful; nine were dry holes in pools, and 33 were unsuccessful wildcats.

Sangamon County is outside the area of best prospects for oil. All production so far has been from the eastern part of the county, within five miles of Christian County. It remains doubtful that new pools will be discovered to the west or north.

All Sangamon County production is from Silurian limestones. There is no Mississippian or Pennsylvanian production in or near Sangamon.

SHELBY COUNTY

(FIG. 19, AREA 14)

Although Shelby County lies within the deep part of the Illinois basin where productive possibilities are best and most of its surrounding counties have at least one good pool and good production records, Shelby drilling and production both have been disappointing.

Four wells were drilled in 1955, all of them dry wildcats. This is about normal for Shelby County. In 1946, completions reached a high of 46 for the year, including nine producing wells. Only 26 producing wells ever have been drilled in Shelby County, seldom more than two in a year, and none since 1952.

Three pools, Stewardson, Shelbyville, and Shelbyville East (abandoned) have Aux Vases production only, Clarksburg has Bethel only, and Lakewood has both.

Lakewood is the largest pool in Shelby County. It has accounted for about 225,000

barrels of the 423,000 barrels of oil produced in the county, 11,000 of them in 1955. Stewardson, the oldest pool in the county, produced 9,000 barrels in 1955 for a total of 152,000 barrels. Shelbyville and Shelbyville East have produced 27,000 barrels, less than 2,000 of it during 1955, and Clarksburg about 19,000 barrels, including about 2,000 in 1955.

WABASH COUNTY

(FIG. 8, AREA 3)

Although Illinois as a whole showed big increases in both drilling and production in 1955, Wabash County showed fairly large decreases in both.

Wabash is one of the most densely drilled counties. Only 144 wells were drilled in 1955, compared with 203 in 1954. Of the 144 wells, 73 were oil wells, 61 were dry holes in pools, and only 10 were wildcats, all of them less than two miles from production. No successful wildcat was drilled in Wabash County in 1955 and new pool discoveries are certain to be rare in the future because of the comparatively small amount of untested acreage remaining.

Wabash County dropped from fifth place in the state in drilling in 1954 to tenth place in 1955. The future of Wabash County oil production will depend largely on developing new pay zones and expanding secondary recovery operations.

Production decreased from an estimated 3,623,000 barrels in 1954 to an estimated 3,214,000 barrels in 1955. About half the county's production is from the New Harmony Consolidated pool, which extends into White and Edwards counties. The breakdown of production figures among the three counties is estimated. Total production for the county is about 65,875,000 barrels.

Most of the 73 new oil wells drilled during 1955 were in the Allendale, Mt. Carmel, and New Harmony Consolidated pools. The Mt. Carmel pool showed an increase in production from 318,000 barrels in 1954 to 452,000 barrels in 1955. Production in the Allendale pool increased from 539,000 barrels to 570,000 barrels. The Allendale pool extends into Lawrence County, but no

attempt has been made to divide the production between the counties. Other pools in the county had little or no drilling and most showed a decrease in production.

WASHINGTON COUNTY

(FIG. 14, AREA 9)

Washington County was among the counties showing the largest increases in drilling in 1955. The number of wells drilled increased from 80 in 1954 to 131 in 1955, the second largest number in the history of the county.

High point in Washington County drilling was the discovery of the Cordes pool in 1939, which resulted in the drilling of 133 wells that year. Discovery of the Irvington pool the following year kept drilling up for a time, after which it dropped off to a low of 10 wells, all dry, in 1950. Since 1950 Washington County has shown a fairly consistent increase in drilling and an improved rate of production.

More important than the increase in drilling in 1955 was the increased percentage of successful completions. In 1954 less than one-third of the new wells were producers; in 1955, 67 out of 131, or more than half, were successful. The Dubois Consolidated pool is responsible for much of the new drilling, 42 of the 67 producing wells are in that pool.

Washington County pools produced 1,020,000 barrels of oil in 1955, making a cumulative production of 14,741,000 barrels. Most of the oil came from the five biggest pools, but a dozen small ones each made from less than 1,000 up to 23,000 barrels.

Cordes, the oldest and largest pool, produced 325,000 barrels in 1955 to bring its total production up to 7,027,000 barrels, all from the Bethel sandstone.

The Irvington pool ranks second. Its production until 1954 was from the Bethel sandstone and a few Cypress and Devonian wells. In 1954 and 1955, 23 Cypress and three Devonian wells were added to the pool. Production increased a little in 1954 and then spurted to 247,000 barrels in 1955. Total production for the Irvington pool is 5,747,000 barrels.

The Dubois Consolidated pool was discovered in 1939 and "rediscovered" in 1955. Up to the end of 1954, 21 oil wells and eight shut-in gas wells had been drilled. Annual production for the pool ranged from 9,000 to 36,000 barrels of oil. In 1955, 42 oil wells were drilled, twice as many as in the previous 16 years of the pool's existence. Production jumped to 147,000 barrels for 1955, boosting the total production to 431,000 barrels. The eight gas wells, drilled in 1947 and 1948, were still shut in, but prospects for marketing the gas seem to have improved. The gas is in the Cypress sandstone and the oil in the Cypress and Bethel sandstones.

The Irvington North pool, only three years old, has produced 360,000 barrels of oil, 134,000 during 1955. The Cypress sandstone was opened up as a new pay in 1955. Previously all production had been from the Bethel sandstone.

Beaucoup South produced 80,000 barrels of oil from the Bethel sandstone in 1955, bringing its total production up to 336,000 barrels.

The 64 dry holes drilled in Washington County during the year included 27 in pools and 37 wildcats.

WAYNE COUNTY

(FIG. 12, AREA 7)

Although drilling in Illinois increased 20 percent in 1955 over the 1954 rate, Wayne County drilling decreased 40 percent—from 419 wells completed in 1954 to 252 in 1955—the biggest decrease for any major oil producing county. Wayne had been among the three top drilling counties from 1941 through 1954, frequently ranking first or second. In 1955 Wayne dropped to fourth place, far behind White and Saline counties, but only three wells behind third-place Lawrence County.

There is no reason to anticipate an increase in drilling in Wayne County in 1956, but it probably will regain its place among the top three counties, as drilling was decreasing in Saline County by the end of 1955.

The 252 wells completed in Wayne County in 1955 included 166 oil wells, 65 pool

dry holes, and 21 unsuccessful wildcats. No new pool was discovered during the year, but five successful wildcats opened up extensions to pools. No new pays were discovered and no deep tests made.

Over half the oil produced in Wayne County has come from the Clay City Consolidated pool, which has produced an estimated 73,600,000 barrels of oil in Wayne County, including 3,600,000 barrels in 1955. County production excluding Clay City Consolidated was 3,233,000 barrels in 1955, making a cumulative total of about 56,500,000 barrels.

Wayne County has the second highest number of pools, being surpassed only by White County. During 1955, 29 pools in Wayne County produced oil; four other pools previously had been abandoned.

Nine Wayne County pools have produced over a million barrels of oil each. These include, besides Clay City Consolidated, Johnsonville Consolidated with 29,467,000 barrels, Aden Consolidated with 7,573,000 barrels, Goldengate Consolidated with 4,186,000 barrels, Barnhill with 3,704,000 barrels, and four pools with production between 1,000,000 and 2,000,000 barrels—Ellery Consolidated, Keenville, Coil, and Half Moon.

Wayne County in 1955 remained among the leading producing counties, although its total production is still greatly exceeded by that of half a dozen counties that had produced large quantities of oil before Wayne County development was well established.

WHITE COUNTY

(FIG. 7, AREA 2)

In 1955 White County ranked first in the state in both drilling and production. It had 478 wells completed, almost one-eighth of Illinois' total number of completions (3,885), and produced approximately 10,000,000 barrels of oil, or almost one-eighth of the state's total production (81,131,000 barrels).

In cumulative production White County is surpassed by Lawrence and Crawford counties, which had production 30 years earlier, and Fayette and Marion counties, where Loudon and Salem Consolidated were at peak production around 1940 before

White County development was well underway. White County has surpassed all four of these counties in annual production during recent years.

The 478 wells drilled in 1955 include 304 producing wells, 142 dry holes in pools, and 32 wildcats. One new pool, Centerville Northeast, was discovered; only one small well had been completed in the pool at the end of the year.

About half of the new producing wells were in the White County parts of Roland Consolidated, Maunie North Consolidated, and New Harmony Consolidated pools. The rest of the new wells were widely distributed among White County's 29 producing pools.

Approximately half of White County's production comes from two pools: the White County portions of Roland Consolidated and New Harmony Consolidated. This production in 1955 was estimated at almost half a million barrels. The 27 other pools in the county produced 5,051,000 barrels of oil in 1955.

Seven pools (Phillipstown Consolidated, Maunie North Consolidated, Maunie South, Herald Consolidated, Centerville East, Mill Shoals, and Storms Consolidated), each of which produced between 300,000 and 1,000,000 barrels for 1955, had a combined production of about 3,750,000 barrels; the county's remaining 1,300,000 barrels was produced by 20 smaller pools.

White is one of the most closely drilled counties. The present rate of drilling cannot continue many years more, but at the end of 1955 no decline was yet apparent.

WILLIAMSON COUNTY

(FIG. 23, AREA 18)

As a result of the very successful drilling in Saline County in 1955, Williamson County had its biggest year of drilling. Fifteen wells were drilled, one a dry hole in the Marion pool and the others unsuccessful wildcats.

The only oil so far produced in Williamson County has been a few hundred barrels from an Aux Vases sandstone well near Marion. However, there is good Aux Vases and Ste. Genevieve production in four pools within three miles of the northeast corner of Williamson County in Franklin (Thompsonville pool) and Saline (Dale Consolidated, Harco, and Harco East pools) counties. Most of the drilling in Saline County in these three pools was done in 1954 and 1955. If they continue to develop toward Williamson County, it is reasonable to anticipate continued exploratory drilling in Williamson County.

OTHER COUNTIES

Unsuccessful wildcat wells were drilled during 1955 in 16 counties that have had no oil or gas production. Four wells were drilled in Jersey County, three each in Kankakee and Schuyler counties, and two each in Iroquois, Johnson, and Mercer counties.

One unsuccessful wildcat was drilled in each of the following 10 counties: Cass, Champaign, Fulton, Hardin, Livingston, Logan, Piatt, Pope, Union, and Vermilion.

OIL PRODUCING STRATA OF
ILLINOIS

(SEE FIG. 3, PAGE 23)

Oil production from sandstones in the upper two groups of Pennsylvanian age, the McLeansboro and Carbondale groups, is very minor; Tradewater and Caseyville sandstones have yielded about one-sixth of the state's oil. The sand grains in Pennsylvanian sandstones are a little coarser and less well rounded than those lower in the section, but the majority are classed as subangular and fine to medium (averaging perhaps 1/60th of an inch in diameter). The sandstones are generally dirtier than the pre-Pennsylvanian sandstones; they have more mica flakes, more clay, and in general more minerals other than quartz. Some of these sandstones, particularly in the upper part of the Pennsylvanian, rank technically as subgraywackes rather than as high-quartz sandstones. Porosity is quite low in the Pennsylvanian sandstones in general but averages about 18 percent in the cleaner sandstones, including most of the oil reservoirs represented in the pools of the Southeastern Illinois field. Occasional spots in the basal Pennsylvanian beds have very high porosity—among the highest of any Illinois rocks—with values of about 30 percent. Permeability is in general moderate. The original low gas content of many Pennsylvanian oils resulted in rather low primary recovery and together with shallow depth makes the Pennsylvanian reservoirs particularly attractive for secondary recovery. Despite the fact that little oil has been found in the Pennsylvanian in 1954 and other recent years, Pennsylvanian production has been increasing, owing to the development of secondary recovery projects.

Chester sandstones have to date produced more than one-half of Illinois' oil and the proportion is mounting. The higher sandstones, the Degonia, Clore, and Palestine, are of little consequence and are productive only in the region of the lower Wabash Valley. The middle sandstones, Waltersburg, Tar Springs, and Hardinsburg, are more productive with some very prolific pools, but significant accumulations are confined to a relatively small area in the southern and east-

ern oil counties. The Jackson sandstone of Indiana and Kentucky barely enters Illinois.

The lower Chester sandstones in general, and the Cypress in particular, are productive nearly throughout the oil country and are the sinews of the Illinois oil industry.

Chester sandstones are physically quite similar to each other, except for the Aux Vases. The sand grains are largely very fine to fine (averaging about 1/100th of an inch in diameter) and subrounded to subangular. Mica, clay, and minerals other than quartz are less common than in the Pennsylvanian. Probably all productive sandstones are technically quartzose; a few tight, dirty, shaly sandstones are subgraywackes. Porosity is commonly around 20 percent and ranges in the productive sections from about 15 percent to about 25 percent.

The Aux Vases west of the principal meridian is similar to the other Chester sandstones but carries little oil. Where the Aux Vases is most prolific, in the central part and up the east flank of the basin, many of its properties contrast sharply with those of more typical Chester sandstones. The sand grains are smaller, in the very fine sand and coarse silt range, about 1/150 inch in diameter, and are well sorted. That is, there is relatively little difference between the smallest grains, about 1/200 of an inch, and the largest, about 1/100 of an inch. The fine grain is the key to most of the distinctive characteristics of the Aux Vases. Smaller grains tend to be less well rounded and have more non-quartz minerals than larger grains from the same source. A slight "peppering" of pink, green, and dark grains is characteristic of the Aux Vases under the usual oil-field binocular microscope, but careful laboratory measurements are needed to show its greater angularity. Almost all oil sands are preferentially water-wet, a film of water covering each sand grain. Even in the oil-bearing part of a reservoir, oil fills only the central parts of the pores. These water films occupy about 30 percent of the total porosity in the oil zone of most Chester sandstones; the water content of oil-bearing Aux Vases with smaller grains (and thus smaller but more numerous pores) is about 50 percent of the total porosity. The total porosity of the fine-grained and well-

sorted Aux Vases is a bit higher, averaging perhaps 22 percent, with a range of 15 percent to 30 percent, as compared to an average of 20 percent or less for other Chester sands. The high water content makes oil more difficult to recognize than in other sandstones, and Aux Vases production was sometimes passed by during the earlier stages of exploration. Fine-grained reservoirs react spectacularly to hydraulic fracturing. Although the Aux Vases has produced less oil in the past than the Benoist (Bethel) and Cypress sands, it is probably leading in current production and is by far the most important single horizon in current development.

Chester limestone production is insignificant, although a little oil has come from limestones in several formations.

The most prolific reservoirs in the lower Mississippian rocks are oolitic limestones, which have produced one-fifth of Illinois' oil. Most important is the McClosky zone, which consists of porous lenses of oolitic limestone in the Fredonia member of the Ste. Genevieve formation. The oolitic Ohara or Lower Ohara pay zone in the Levias member and oolitic streaks at the horizon of the Rosiclare member of the Ste. Genevieve are quite similar to the McClosky, as are oolites in the St. Louis and Salem formations.

Oolitic limestones are made up of small balls, about 1/25 of an inch in diameter, of chemically deposited layers of calcium carbonate. The layers, like onion rings, form around a nucleus—a sand grain, a silt grain, a small fossil, a fragment of rock, or a speck of dust. In much oolitic limestone the individual oolites are enclosed in fine-grained limestone and the rock is non-porous. The pay zones differ in having some free pore space between the oolites. There are minor differences between beds; Ohara oolites are typically large, about 1/20 of an inch in diameter; St. Louis oolites are small, about 1/50 of an inch; Rosiclare oolites tend to have fair-sized sand grains for centers; Salem oolites include many microscopic fossils covered with only thin rims of chemically precipitated calcium carbonate.

The typical oolite reservoir has about 15 percent porosity, less than most sandstones.

Permeability, the rate at which a fluid can flow through rock, is relatively high, so oil production tends to decline rather rapidly after a spectacular initial flush period of a few months. The water content in the oil zone is low, around 10 to 20 percent. Hydraulic fracturing is not particularly helpful, but in most instances productivity can be increased greatly by acidizing. Waterflooding of the oolitic reservoirs is simple, but as primary recovery is generally high, less oil is left for secondary recovery than in the sandstone reservoirs.

The two lower Mississippian productive sandstones have quite different characteristics. The Rosiclare zone is a typical oolite in the southern and eastern oil counties, with occasional sand grains accompanying the oolites. Toward the northwest the sand grains become more numerous and production is obtained from a slightly limy sandstone, a bit coarser than the average Chester sandstone. Present over much of the northern part of the basin is the Carper, an extremely fine grained sandstone, in most places actually a siltstone. It has had occasional oil shows, but at only one spot in Clark County has it been open enough to produce significant amounts of oil.

Devonian production comes from sandstones, limestones, dolomites, and cherts, and is difficult to characterize briefly. The sandstones, at three or four different horizons, produce only a fraction of a percent of Illinois' total oil. They contain relatively numerous large well-rounded grains 1/50 of an inch or more in diameter, although the average grain diameter may be little greater than that of Chester sandstones.

The Devonian dolomites, cherty dolomites, and dolomitic limestones are more prolific, producing perhaps 5 percent of the Illinois oil. The pure dolomites are composed of partially interlocked "sugary" lozenge-shaped crystals of the mineral dolomite, calcium magnesium carbonate. The crystals are generally 1/400 to 1/100 of an inch in diameter. Porosity between the crystals is about 20 to 25 percent in pure dolomites but less where only part of the rock is dolomite. Where extensive systems of large cavities, or vugs, are present, phenomenal initial production

has resulted. The existence of three types of porosity—that between the crystals, in vugs, and in fractures—has made the planning of secondary recovery programs difficult.

Silurian production, approaching one percent of Illinois' total, is from two quite different types of rock. Much Silurian dolomite in the southern part of Illinois is too fine-grained for production, but occasional streaks, generally purer, are coarse enough to approach the lower limit of productive dolomite rock. As might be expected, this fine-grained rock reacts favorably to fracturing but poses problems in waterflooding. Silurian "coral" reefs in the northern part of Illinois are dolomitized, porous, and very permeable. In the oil area the reefs are limestone with very low porosity but have a few vugs

and an extensive fracture system that may contain oil. Silurian reef rock produces oil from Marion County westward.

Intergranular porosity, between relatively large (in the 1/10-inch range) crystals of calcium carbonate and fossil fragments, is of greatest importance in the Trenton limestone, which has produced less than one percent of Illinois' oil. The limestone generally is quite dense and its porosity is in the 5 to 10 percent range, even in the scattered productive streaks. Porosity and permeability increase westward across the western part of the oil area, and fractures are of considerable importance in the westernmost pools. Acidizing is a common completion practice, and it seems likely that hydraulic fracturing will be of relatively little help.

TABLE 9.—ILLINOIS OIL AND GAS POOLS*
January 1, 1956

Pool: County	Township	Range
Ab Lake: Gallatin	8S	10E
Ab Lake West: Gallatin	8-9S	9-10E
Aden Consol.: Wayne, Hamilton	2-3S	7E
Aden South: Hamilton	3S	7E
Akin: Franklin	6S	4E
Akin West: Franklin	6S	4E
Albion Central: Edwards	2S	10E
Albion Consol.: Edwards, White	1-3S	10-11E, 14W
Albion East: Edwards	2S	14W
Albion West: Edwards	3S	10E
Allendale: Wabash, Lawrence	1-2N	11-13W
Alma: Marion	4N	2E
Amity: Richland	4N	14W
Amity South: Richland	4N	14W
Amity West: Richland	4N	14W
Ashley: Washington	2S	1W
Assumption Consol.: Christian	13-14N	1E
Assumption South: Christian	12N	1E
Ava-Campbell Hill: Jackson	7S	4W
Ayers gas: Bond	6N	3W
Baldwin: Randolph	4S	6W
Barnhill: Wayne	2-3S	8E
Bartelso: Clinton	1-2N	3W
Bartelso East: Clinton	1N	3W
Bartelso South: Clinton	1N	3W
Bartelso West: Clinton	1N	3-4W
Beaucoup: Washington	2S	2W
Beaucoup South: Washington	2S	2W
Beaver Creek: Bond, Clinton	3-4N	2-3W
Beaver Creek North: Bond	4N	3W
Beaver Creek South: Clinton, Bond	3-4N	2-3W
Bellair: Crawford, Jasper	8N	14W
Belle Prairie: Hamilton	4S	6E
Belle Rive: Jefferson	3S	4E
Bellmont: Wabash	1S	13-14W
Beman: Lawrence	3N	11W
Beman East: Lawrence	3N	10W
Bennington South: Edwards	1N	10E
Benton: Franklin	6S	2-3E
Benton North: Franklin	5-6S	2E
Berryville Consol.: Wabash, Edwards	1-2N	14W
Bessie: Franklin	6S	3E
Bible Grove North: Effingham	6N	7E
Bible Grove South: Clay	5N	7E
Blackland: Macon, Christian	15N	1E-1W
Black River: White	4S	13W
Blairsville West: Hamilton	4S	7E
Bogota: Jasper	6N	9E
Bogota North: Jasper	6N	9E
Bogota South: Jasper	5-6N	9E
Bone Gap Consol.: Edwards	1S	10-11E, 14W
Bone Gap East: Edwards	1S	14W
Bone Gap West: Edwards	1S	10E
Boulder: Clinton	2-3N	2W
Boulder East: Clinton	3N	1W
Boyd: Jefferson	1S	1-2E
Broughton: Hamilton	6S	7E
Broughton South: Saline	7S	7E
Brown: Marion	1N	1E
Browns: Edwards, Wabash	1-2S	14W
Browns East: Wabash	1-2S	14W
Browns South: Edwards	2S	14W
Bungay Consol.: Hamilton	4S	7E

*Includes abandoned pools.

TABLE 9.—(Continued)

Pool: County	Township	Range
Burnt Prairie South: White	4S	9E
Calhoun Central: Richland	2N	10E
Calhoun Consol.: Richland, Wayne	2-3N	9-10E
Calhoun East: Richland	2N	10-11E
Calhoun North: Richland	3N	10E
Calhoun South: Wayne	2N	9E
Cantrell North: Hamilton	6S	5E
Carlinville: Macoupin	9N	7W
Carlinville North: Macoupin	10N	7W
Carlyle: Clinton	2N	3W
Carlyle North: Clinton	3N	3W
Carlyle South: Clinton	1N	3W
Carmi: White	5S	9E
Carmi North: White	5S	9E
Casey: Clark	10-11N	14W
Centerville: White	4S	9E
Centerville East: White	3-4S	9-10E
Centerville North: White	3S	10E
Centerville Northeast: White	3S	10E
Centralia: Clinton, Marion	1-2N	1E, 1W
Centralia West: Clinton	1N	1W
Christopher Consol.: Franklin	6S	1E
Claremont: Richland	3N	14W
Clarksburg: Shelby	10N	4E
Clay City Consol.: Clay, Wayne, Richland, Jasper	1-7N, 1-2S	6-10E
Clay City West: Clay	2N	7E
Coil: Wayne	1S	5E
Coil West: Jefferson	1S	4E
Collinsville: Madison	3N	8W
Colmar-Plymouth: Hancock, McDonough	4N	4-5W
Concord Consol.: White	6S	10E
Concord East Consol.: White	6-7S	10E
Cooks Mills Consol.: Coles	13-14N	7-8E
Cooks Mills East: Coles	14N	7E
Cordes: Washington	3S	3W
Cottage Grove: Saline	9S	7E
Covington South: Wayne	2S	6E
Craig: Perry	4S	4W
Cravat: Jefferson	1S	1E
Crossville: White	4S	10E
Crossville West: White	4S	10E
Dahlgren: Hamilton	3S	5E
Dale Consol.: Hamilton, Saline, Franklin	5-7S	4-7E
Decatur: Macon	16N	2E
Decatur North: Macon	17N	3E
Divide: Jefferson	1S	3E
Divide East: Jefferson	1S	4E
Divide South: Jefferson	2S	3E
Divide West: Jefferson	1S	3E
Dix South: Jefferson	1S	2E
Dubois: Washington	3S	1-2W
Dubois Central: Washington	3S	1W
Dudley: Edgar	13-14N	13W
Dudley West gas: Edgar	13N	13W
Dudleyville East: Bond	4-5N	2-3W
Dundas East: Richland, Jasper	4-5N	10E
Dupo: St. Clair	1S, 1N	10W
Eberle: Effingham	6N	6E
Edinburg: Christian	14N	3W
Edinburg South: Christian	14N	3W
Edinburg West: Christian, Sangamon	14N	3-4W
Elba: Gallatin	8S	8E
Elbridge: Edgar	12-13N	11W

TABLE 9.—(Continued)

Pool: County	Township	Range
Eldorado Consol.: Saline	8S	6-7E
Eldorado East: Saline	8S	7E
Eldorado West: Saline	8S	6E
Elk Prairie: Jefferson	4S	2E
Elkton: Washington	2S	4W
Elkville: Jackson	7S	1W
Ellery Consol.: Edwards, Wayne	2S	9-10E
Ellery East: Edwards	2S	10E
Ellery North: Edwards	2S	10E
Ellery South: Edwards	2-3S	10E
Elliottstown: Effingham	7N	7E
Elliottstown East: Effingham	7N	7E
Elliottstown North: Effingham	7N	7E
Enfield: White	5S	8E
Epworth Consol.: White	5S	9-10E
Evers: Effingham	8N	7E
Evers South: Effingham	7N	7E
Ewing: Franklin	5S	3E
Exchange: Marion	1N	3E
Exchange East: Marion	1N	4E
Exchange North: Marion	1N	3E
Fairman: Marion, Clinton	3N	1E, 1W
Fishhook: Pike, Adams	3S	4-5W
Fitzgerrell: Jefferson	4S	1E
Flora South: Clay	2N	6E
Francis Mills: Saline	7S	7E
Francis Mills South: Saline	7S	7E
Freeburg South: St. Clair	1S	7W
Friendsville Central: Wabash	1N	13W
Friendsville North: Wabash	1N	12-13W
Frogtown: Clinton	2N	3-4W
Frogtown North: Clinton	2-3N	3-4W
Gards Point: Wabash	1N	14W
Gards Point North: Wabash	1N	14W
Gays: Moultrie	12N	6E
Gillespie-Wyen: Macoupin	8N	6W
Gillespie-Benld gas: Macoupin	8N	6W
Glenarm: Sangamon	14N	5W
Goldengate Consol: Wayne, White	2-4S	9E
Goldengate East: Wayne	3S	9E
Goldengate North Consol.: Wayne	2S	8-9E
Grandview: Edgar	12-13N	13W
Greenville gas: Bond	5N	3W
Half Moon: Wayne	1S	9E
Harco: Saline	8S	5E
Harco East: Saline	8S	5E
Harrisburg: Saline	8S	6E
Harrisburg South: Saline	9S	6E
Harristown: Macon	16N	1E
Herald Consol.: White, Gallatin	6-7S	9-10E
Hidalgo: Jasper	8N	10E
Hidalgo North: Cumberland	9N	9E
Hill: Effingham	6N	6E
Hill East: Effingham	6N	6E
Hoffman: Clinton	1N	2W
Hoodville East: Hamilton	5S	7E
Hord: Clay	5N	6E
Hord South: Clay	5N	6E
Hoyleton West: Washington	1S	2W
Huey: Clinton	2N	2W
Huey South: Clinton	1-2N	2W
Hunt City: Jasper	7N	10E
Hunt City East: Jasper	7N	14W
Hunt City South: Jasper	7N	11E
Ina: Jefferson	4S	2-3E

TABLE 9.—(Continued)

Pool: County	Township	Range
Ina North: Jefferson	4S	3E
Inclose: Edgar, Clark	12N	13-14W
Ingraham: Clay	4N	8E
Inman East Consol: Gallatin	7-8S	10E
Inman West Consol.: Gallatin	7-8S	9-10E
Iola Central: Clay	5N	5E
Iola Consol.: Clay, Effingham	5-6N	5E
Iola South: Clay	4N	5E
Iola West: Clay	5N	5E
Irvington: Washington	1S	1W
Irvington East: Jefferson	1S	1E
Irvington North: Washington	1N, 1S	1W
Iuka: Marion	2N	4E
Iuka West: Marion	2N	3E
Jacksonville gas: Morgan	15N	9W
Johnson North: Clark	9-10N	14W
Johnson South: Clark	9N	14W
Johnsonville Consol.: Wayne	1N, 1S	6-7E
Johnsonville North: Wayne	1N	6E
Johnsonville South: Wayne	1S	6E
Johnsonville West: Wayne	1N	5-6E
Junction: Gallatin	9S	9E
Junction City: Marion	2N	1E
Junction City South: Marion	2N	1E
Junction East: Gallatin	8-9S	9E
Junction North: Gallatin	8-9S	9E
Keensburg East: Wabash	2S	13W
Keensburg South: Wabash	2-3S	13W
Keenville: Wayne	1S	5E
Keenville East: Wayne	1S	5E
Kell: Jefferson	1S	3E
Kenner: Clay	3N	5-6E
Kenner North: Clay	3N	6E
Kenner West: Clay	3N	5E
Kenner South: Clay	2N	5E
Keyesport: Clinton	3N	2W
King: Jefferson	3-4S	3E
Kincaid: Christian	13N	3W
Kincaid South: Christian	13N	3W
Kinmundy: Marion	4N	3E
Kinmundy North: Marion	4N	3E
Laclede: Fayette	5N	4E
Lakewood: Shelby	10N	2-3E
Lancaster: Wabash, Lawrence	1-2N	13W
Lancaster Central: Wabash	1N	13W
Lancaster East: Wabash	2N	13W
Lancaster South: Wabash	1N	13W
Langewisch-Kuester: Marion	1N	1E
Lawrence: Lawrence, Crawford	2-5N	11-13W
Lawrence West: Lawrence	3N	13W
Lexington: Wabash	1S	14W
Lexington North: Wabash	1S	14W
Lillyville: Cumberland, Effingham	8-9N	6-7E
Litchfield: Montgomery	8-9N	5W
Livingston: Madison	6N	6W
Livingston East gas: Madison	6N	6W
Livingston South: Madison	5-6N	6W
Locust Grove: Wayne	1N	9E
Locust Grove South: Wayne	1S	9E
Long Branch: Saline, Hamilton	7S	6E
Long Branch South: Saline	8S	6E
Louden: Fayette, Effingham	6-9N	2-4E
Louisville North: Clay	4N	6E
Lynchburg: Jefferson	3S	4E
McKinley: Washington	3S	4W

TABLE 9.—(Continued)

Pool: County	Township	Range
Main: Crawford	5-8N	10-14W
Maple Grove Consol.: Edwards, Wayne	1N	9-10E
Maple Grove South: Edwards	1N	10E
Marcoe: Jefferson	3S	2E
Marine: Madison	4N	6W
Marion: Williamson	9S	3E
Markham City: Jefferson	2-3S	4E
Markham City North: Jefferson, Wayne	2S	4-5E
Markham City West: Jefferson	2-3S	4E
Martinsville: Clark	9-10N	13-14W
Mason: Effingham	6N	5E
Mason North: Effingham	6N	5E
Massilon: Wayne, Edwards	1S	9-10E
Massilon South: Edwards	1S	10E
Mattoon: Coles	11-12N	7-8E
Maunie East: White	6S	11E
Maunie North Consol.: White	5-6S	10-11E, 14W
Maunie South: White	6S	10-11E
Mayberry: Wayne	2-3S	6E
Mayberry North: Wayne	2S	6E
Melrose: Clark	9N	13W
Melrose South: Clark	9N	13W
Miletus: Marion	4N	4E
Mill Shoals: White, Hamilton, Wayne	2-4S	7-8E
Mills Prairie: Edwards	1N	14W
Mills Prairie North: Edwards	1N	14W
Mitchellsville: Saline	10S	6E
Mt. Auburn Consol.: Christian	15N	1-2W
Mt. Carmel: Wabash	1N, 1S	12W
Mt. Erie North: Wayne	1N	9E
Mt. Olive: Montgomery	8N	5W
Mt. Vernon: Jefferson	3S	3E
Murdock: Douglas	16N	10E
Nason: Jefferson	3S	2E
New Bellair: Crawford	8N	13W
New City: Sangamon	14N	4W
New Harmony Consol.: White, Wabash, Edwards	1N, 1-5S	13-14W
New Harmony South: White	5S	14W
New Harmony South (Ind.): White	5S	14W
New Haven Consol.: White	7S	10-11E
New Hebron East: Crawford	6N	12W
New Memphis: Clinton	1N, 1S	5W
New Memphis North: Clinton	1N	5W
New Memphis South: Clinton	1S	5W
Newton: Jasper	6N	9E
Newton North: Jasper	7N	10E
Newton West: Jasper	6-7N	9E
Noble West: Clay	3N	8E
Oakley: Macon	16N	3E
Oak Point: Clark	9N	14W
Oak Point West: Clark	9N	14W
Odin: Marion	2N	1-2E
Okawville: Washington	1S	4W
Okawville North: Washington	1S	4W
Old Ripley: Bond	5N	4W
Olney Consol.: Richland	4N	10E
Olney South: Richland	3N	10E
Omaha: Gallatin	7-8S	8E
Omaha East: Gallatin	8S	8E
Omaha South: Gallatin, Saline	8S	7-8E
Omaha West: Saline	7-8S	7E
Omega: Marion	3N	4E
Orchardville: Wayne	1N	5E
Oskaloosa: Clay	3-4N	5E
Oskaloosa East: Clay	3N	5-6E

TABLE 9.—(Continued)

Pool: County	Township	Range
Oskaloosa South: Clay	3N	5E
Pana: Christian	11-12N	1E
Panama: Bond, Montgomery	7N	3-4W
Parkersburg Consol.: Richland, Edwards	1-3N	10-11E, 14W
Parkersburg South: Edwards	1N	14W
Parkersburg West: Richland, Edwards	2N	10E
Passport: Clay	4N	8E
Passport South: Richland, Clay	4N	8-9E
Passport West: Clay	4N	8E
Patoka: Marion	4N	1E
Patoka East: Marion	4N	1E
Patoka South: Marion	3N	1E
Patoka West: Fayette	4N	1W
Phillipstown Consol.: White, Edwards	3-5S	10-11E, 14W
Phillipstown South: White	5S	10E
Pinkstaff: Lawrence	4N	11W
Pinkstaff East: Lawrence	4N	11W
Pittsfield gas: Pike	5S	4-5W
Plainview: Macoupin	9N	8W
Posen: Washington	3S	2W
Posen North: Washington	3S	2W
Posen South: Washington	3N	2W
Posey: Clinton	1N	2W
Posey East: Clinton	1N	2W
Posey West: Clinton	1N	3W
Prentice: Morgan	16N	8W
Raccoon Lake: Marion	1N	1E
Raleigh: Saline	7-8S	6E
Raleigh South: Saline	8S	6E
Raymond: Montgomery	10N	4-5W
Raymond East: Montgomery	10N	4W
Redmon North: Edgar	14N	13W
Reservoir: Jefferson	1S	3E
Richview: Washington	2S	1W
Ridgway: Gallatin	8S	8E
Rifle: Clay	4N	6E
Rinard: Wayne	2N	7E
Rinard North: Wayne	2N	7E
Ritter: Richland	3N	10-11E
Ritter North: Richland	3N	11E
Roaches: Jefferson	2S	1E
Roaches North: Jefferson	2S	1E
Roby: Sangamon	15N	3W
Rochester: Wabash	2S	13W
Roland Consol.: White, Gallatin	5-7S	8-9E
Roland West: Saline	7S	7E
Ruark: Lawrence	2N	12W
Ruark West Consol.: Lawrence	2N	13W
Rural Hill North: Hamilton	5S	5E
Russellville gas: Lawrence	4-5N	10-11W
Russellville West: Lawrence	5N	11W
St. Francisville: Lawrence	2N	11W
St. Francisville East: Lawrence	2N	11W
St. Jacob: Madison	3N	6W
St. Jacob East: Madison	3N	6W
St. James: Fayette	5-6N	2-3E
St. Paul: Fayette	5N	3E
Ste. Marie: Jasper	5N	11E-14W
Ste. Marie East: Jasper	6N	14W
Ste. Marie West: Jasper	5-6N	10E
Sailor Springs Central: Clay	4N	7-8E
Sailor Springs Consol.: Clay, Effingham	3-6N	6-7E
Sailor Springs East: Clay	4N	8E
Sailor Springs North: Clay	4N	8E
Salem Consol.: Marion, Jefferson	1-2N, 1S	1-2E

TABLE 9.—(Continued)

Pool: County	Township	Range
Samsville: Edwards	1N	11E
Samsville North: Edwards	1N	14W
Samsville Northwest: Edwards	1N	10E
Samsville West: Edwards	1N	10E
Sandoval: Marion	2N	1E
Sandoval West: Clinton	2N	1W
Santa Fe: Clinton	1N	3W
Schnell: Richland	2N	9E
Schnell East: Richland	2N	9E
Schnell South: Clay	2N	8E
Seminary: Richland	2N	10E
Sesser: Franklin	5-6S	1-2E
Shattuc: Clinton	2N	1W
Shawneetown: Gallatin	9S	9E
Shawneetown East: Gallatin	9S	10E
Shawneetown North: Gallatin	9S	10E
Shelbyville: Shelby	11N	4E
Shelbyville East: Shelby	11N	4E
Siggins: Cumberland, Clark	10-11N	10-11E, 14W
Sorento: Bond	6N	4W
Spanish Needle Creek gas: Macoupin	9N	7W
Sparta gas: Randolph	4-5S	5-6W
Sparta South: Randolph	5S	5W
Stanford South: Clay	2N	7E
Staunton: Macoupin	7N	7W
Staunton gas: Macoupin	7N	7W
Staunton West: Macoupin	7N	7W
Stewardson: Shelby	10N	5E
Storms Consol.: White	5-6S	9-10E
Stringtown: Richland	4-5N	11E-14W
Stringtown East: Richland	4N	14W
Stubblefield South: Bond	4N	3W
Sumner: Lawrence	4N	13W
Sumpter: White	4S	9E
Sumpter East: White	4-5S	10E
Sumpter North: White	4S	9E
Sumpter South: White	4-5S	9E
Sumpter West: White	4S	9E
Tamaroa: Perry	4S	1W
Taylor Hill: Franklin	5S	4E
Thackeray: Hamilton	5S	7E
Thompsonville: Franklin	7S	4E
Thompsonville East: Franklin	7S	4E
Thompsonville North: Franklin	7S	4E
Tilden: Randolph	4S	5W
Toliver East: Clay	5N	6-7E
Toliver South: Clay	4N	6E
Tonti: Marion	2-3N	2E
Tovey: Christian	13N	3W
Trumbull: White	5S	8-9E
Trumbull West: White	5S	8E
Valier: Franklin	6S	2E
Waggoner: Montgomery	11N	5W
Wakefield: Jasper	5N	9E
Wakefield North: Jasper	5N	9E
Wakefield South: Richland	5N	9E
Walpole: Hamilton	6-7S	6E
Walpole South: Hamilton	7S	6E
Waltonville: Jefferson	3S	2E
Wamac: Clinton, Marion, Washington	1N	1E
Wamac East: Marion	1N	1E
Warrenton-Borton: Edgar, Coles	13-14N	13-14W
Waterloo: Monroe	1-2S	10W
Waverly gas: Morgan	13N	8W
Weaver: Clark	11N	10W

TABLE 9.—(Continued)

Pool: County	Township	Range
West Frankfort: Franklin	7S	2-3E
Westfield: Clark, Coles	11-12N	11E-14W
Westfield East: Clark	11-12N	14W
Westfield North: Coles	12N	14W
Whittington: Franklin	5S	3E
Whittington South: Franklin	5-6S	3E
Whittington West: Franklin	5S	2E
Williams Consol.: Jefferson	3S	2E
Willow Hill East: Jasper	6-7N	10-11E
Woburn Consol.: Bond	6-7N	2W
Woodlawn: Jefferson	2-3S	1-2E
Xenia: Clay	2N	5E
Xenia East: Clay	2N	5E
York: Cumberland	9N	10-11E
Zenith: Wayne	2N	5E
Zenith North: Wayne	2N	6E
Zenith South: Wayne	1N	5E

TABLE 10.—POOLS INCORPORATED INTO OTHER POOLS BY CONSOLIDATION

Original pool name	Present pool assignment	Date of con-sol.	Original pool name	Present pool assignment	Date of con-sol.
Aden North	Aden Consol.	1944	Covington	Clay City Consol.	1944
Albion North	Albion Consol.	1944	Covington East	Clay City Consol.	1948
Allison-Weger	Main	1955	Cowling	New Harmony Consol.	1947
Assumption North	Assumption Consol.	1953	Dead River	New Haven Consol.	1950
Barnhill East	Goldengate Consol.	1944	Dix	Salem Consol.	1954
Bend	New Harmony Consol.	1952	Dubois West	Dubois	1955
Bennington	Maple Grove Consol.	1952	Dundas Consol.	Clay City Consol.	1948
Bible Grove Consol.	Sailor Springs Consol.	1949	Eldorado Central	Eldorado Consol.	1954
Bible Grove East	Sailor Springs Consol.	1948	Eldorado North	Eldorado Consol.	1955
Birds	Main	1955	Ellery West	Ellery Consol.	1952
Blairsville	Bungay Consol.	1951	Enterprise	Clay City Consol.	1941
Bone Gap South	Bone Gap Consol.	1952	Enterprise West	Clay City Consol.	1941
Bonpas	Parkersburg Consol.	1951	Epworth East	Epworth Consol.	1951
Bonpas East	Parkersburg Consol.	1944	Fairfield	Clay City Consol.	1953
Boos	Clay City Consol.	1941	Fairfield East	Clay City Consol.	1953
Boos East	Clay City Consol.	1947	Flannigan	Dale Consol.	1955
Boos North	Clay City Consol.	1948	Flat Rock	Main	1954
Boyleston Consol.	Clay City Consol.	1948	Flora	Sailor Springs Consol.	1955
Brownsville	Roland Consol.	1946	Friendsville	New Harmony Consol.	1949
Burnt Prairie	Goldengate Consol.	1947	Friendsville South	New Harmony Consol.	1949
Calvin	New Harmony Consol. and Phillipstown Consol.	1941	Gallagher	Calhoun Consol.	1946
Calvin North	Phillipstown Consol.	1948	Geff	Clay City Consol.	1947
Cantrell Consol.	Dale Consol.	1955	Geff West	Clay City Consol.	1948
Chapman	Main	1954	Goldengate West	Goldengate North Consol.	1953
Cisne	Clay City Consol.	1948	Gossett	Roland Consol.	1954
Cisne North	Clay City Consol.	1954	Grayville	Phillipstown Consol.	1948
Clay City North	Clay City Consol.	1954	Grayville West	Albion Consol.	1949
Concord Central	Herald Consol.	1955	Griffin	New Harmony Consol.	1941
Concord North	Concord Consol.	1955	Helena	Ruark West Consol.	1952
Concord South Consol.	Herald Consol.	1955	Herald East	Concord South Consol.	1953
Cooks Mills Gas	Cooks Mills Consol.	1955	Herald North	Storms Consol.	1953
Cooks Mills North	Cooks Mills Consol.	1955	Hoodville	Dale Consol.	1943
Cottonwood	Herald Consol.	1953	Hoosier	Sailor Springs Consol.	1948
Cottonwood North	Herald Consol.	1953	Hoosier North	Sailor Springs Consol.	1948
			Ingraham West	Sailor Springs Consol.	1948

TABLE 10.—(Continued)

Original pool name	Present pool assignment	Date of consol.	Original pool name	Present pool assignment	Date of consol.
Inman	Inman West Consol.	1950	Noble South	Clay City Consol.	1948
Inman Central	Inman West Consol.	1949	Norris City	Roland Consol.	1955
Inman North	Inman West Consol.	1949	North City	Christopher Consol.	1954
Inman South	Inman West Consol.	1950	Olney East	Olney Consol.	1949
Iron Consol.	Roland Consol.	1954	Parker	Main	1954
Keensburg Consol.	New Harmony Consol.	1948	Parkersburg North	Parkersburg Consol.	1951
Lancaster North	Ruark West Consol.	1952	Patton	Allendale	1948
Lancaster West	Berryville Consol.	1949	Patton West	Allendale	1948
Leech Consol.	Goldengate Consol.	1948	Roundprairie	Johnsonville Consol.	1941
Maple Grove East	Parkersburg Consol.	1952	Rural Hill	Dale Consol.	1951
Mason South	Iola Consol.	1948	Rural Hill West	Dale Consol.	1955
Maud Central	New Harmony Consol.	1949	Sailor Springs South	Sailor Springs Consol.	1942
Maud Consol.	New Harmony Consol.	1951	Sailor Springs West	Sailor Springs Consol.	1949
Maud North Consol.	New Harmony Consol.	1951	Sims	Johnsonville Consol.	1948
Maud West	New Harmony Consol.	1948	Sims North	Johnsonville Consol.	1945
Maunie	Maunie South	1948	Springerton	Bungay Consol.	1946
Maunie West	Maunie North Consol.	1955	Stanford	Clay City Consol. and Sailor Springs Con- sol.	1953
Merriam	Clay City Consol.	1953	Stanford West	Sailor Springs Consol.	1953
Mitchell	Ellery Consol.	1952	Stokes-Brownsville	Roland Consol.	1953
Mt. Auburn Central	Mt. Auburn Consol.	1954	Swearingen gas	Main	1955
Mt. Auburn East	Mt. Auburn Consol.	1954	Toliver	Hord South	1955
Mt. Carmel West	New Harmony Consol.	1948	West End	Dale Consol.	1955
Mt. Erie	Clay City Consol.	1944	West Frankfort South	West Frankfort	1948
Mt. Erie South	Clay City Consol.	1948	West Liberty	Clay City Consol.	1941
New Haven North	Concord East Consol.	1950	Williams South	Williams Consol.	1953
New Haven West	Inman East Consol.	1949	Willow Hill Consol.	Clay City Consol.	1948
New Hebron	Main	1955	Willow Hill North	Clay City Consol.	1947
Noble	Clay City Consol.	1948	Woburn South	Woburn Consol.	1950
Noble North	Clay City Consol.	1948			

TABLE 11.—OIL AND GAS PRODUCING STRATA, 1955

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Pennsylvanian System	McLeansboro	Trivoli	Trivoli	Lawrence: Lawrence, Crawford	290
		Anvil Rock	Anvil Rock Jamestown	Herald Consol.: White, Gallatin New Harmony Consol.: White, Wabash, Edwards	695
			Anvil Rock	Phillipstown Consol.: White, Edwards	720 795
	Carbondale	Cuba	Dykstra	Junction City: Marion	510
			Cuba "	Lawrence: Lawrence, Crawford Main: Crawford, Lawrence	450 510
		Jake Creek	Jake Creek	Omaha: Gallatin	385
		Pleasantview	Upper Gas	Allendale: Lawrence, Wabash	660
			Upper Dudley	Casey: Clark	240
			Gas	Dudley: Edgar	310
			"Shallow" First (Upper) Siggins	Grandview: Edgar Martinsville: Clark Siggins: Cumberland, Clark Westfield North: Coles	390 255 400 275
		Browning	Lower Gas	Casey: Clark	290
			Gas	Dudley West: Edgar	380
			Kickapoo Second or Lower Siggins Pennsylvanian Gas	Johnson North: Clark Siggins: Cumberland, Clark Warrenton-Borton: Edgar Westfield: Clark, Coles	315 460 200 280
		Isabel	Wilson	Brown: Marion	840
	Lower Dudley		Dudley: Edgar	400	
	Gas		Epworth Cons.: White	1090	
	Isabel		Inclose: Edgar, Clark	345	
Wilson	Junction City: Marion		610		
"	Junction City South: Marion		680		
Isabel	Melrose: Clark		840		
"	Melrose South: Clark	865			
"	New Bellair: Clark	650			
"	Oak Point: Clark	560			
Wilson	Wamac East: Marion	845			
Isabel	York: Cumberland, Clark	590			
Tradewater and Caseyville groups	Pennsylvanian	Ab Lake West: Gallatin	725		
	Several sands	Albion Consol.: Edwards, White	1490-2000		
	"	Allendale: Wabash, Lawrence	1070-1500		
	"500", "800"	Bellair: Crawford, Jasper	560, 815		
	Pennsylvanian	Benton: Franklin	1700		
	"	Bone Gap Consol.: Edwards	2110		
	"	Carlinville: Macoupin	380		
	"	Carlinville North: Macoupin	440		
	"	Carmi: White	1210		
	Casey	Casey: Clark	445		
	Pennsylvanian	Elbridge: Edgar	760		
	Several sands	Epworth Consol.: White	1320-1840		
Biehl	Friendsville North: Wabash	1620			
Pennsylvanian	*Gillespie-Benld gas: Macoupin	540			
"	Gillespie-Wyen: Macoupin	650			
"	Grandview: Edgar	560			
"	Herald Consol.: White, Gallatin	1090-1750			
"	Inclose: Edgar, Clark	540			

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Pennsylvanian System	Tradewater and Caseyville groups	Pennsylvanian	Inman East Consol.: Gallatin	780-1450
		"	Inman West Consol.: Gallatin	925
		"	Irvington East: Jefferson	1030
		"	*Jacksonville gas: Morgan	330
		Claypool	Johnson North: Clark	415
		Casey	" " "	465
		Upper Partlow	" " "	535
		Claypool	Johnson South: Clark	390
		Casey	" " "	450
		Upper Partlow	" " "	490
		Lower Partlow	" " "	600
		Pennsylvanian	Junction: Gallatin	1150
		"	Junction North: Gallatin	1565
		"	Keensburg South: Wabash	1150
		Biehl	Lancaster East: Wabash	1745
		Bridgeport	Lawrence: Lawrence, Crawford	800-950
		Buchanan	" "	1250
		Pennsylvanian	†Litchfield: Montgomery	660
		"	Livingston: Madison	535
		"	Livingston East gas: Madison	540
		"	Livingston South: Madison	530
		Burtschi	Louden: Fayette, Effingham	1000
		Several sands	Main: Crawford, Lawrence	900-1250
		Casey	Martinsville: Clark	500
		Pennsylvanian	Maunie North Consol.: White	1320
		"	Maunie South: White	1400
		Several sands	Mt. Carmel: Wabash	1370-1520
		Pennsylvanian	Mt. Olive: Montgomery	605
		"	Murdock: Douglas	370
		"	*New Bellair: Crawford	1165
		Several sands	New Harmony Consol.: White, Wabash, Edwards	1340-1850
		Pennsylvanian	Old Ripley: Bond	600
		"	Omaha: Gallatin	580-1335
		"	Panama: Bond, Montgomery	575
		"	Parkersburg South: Edwards	1400
		Several sands	Phillipstown Consol.: White, Edwards	1350-1875
		Pennsylvanian	Plainview: Macoupin	410
		"	Prentice: Morgan	270
		"	Raymond: Montgomery	590
		"	Raymond East: Montgomery	595
		"	Redmon North: Edgar	365
		"	Rochester: Wabash	1300
		"	Roland Consol.: White, Gallatin	1410
		"	Ruark: Lawrence	1600
		Bridgeport	Russellville gas: Lawrence	760
		Buchanan	" " "	1100
		Pennsylvanian	St. Francisville East: Lawrence	1305
3rd & 4th Siggins	Siggins: Cumberland, Clark	480-600		
Pennsylvanian	*Spanish Needle Creek: Macoupin	300		
"	*Staunton gas: Macoupin	460		
"	Staunton: Macoupin	515		
"	Staunton West: Macoupin	505		
"	Waggoner: Montgomery	610		
Petro	Wamac: Marion, Clinton, Washington	720		
Pennsylvanian	Waverly: Morgan	250		
"	Westfield East: Clark	400		
"	Westfield North: Coles	490		

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Chester (Upper Mississippian) series	Degonia	Degonia	Albion Consol.: Edwards, White	2125	
		"	Epworth Consol.: White	2090	
		"	Herald Consol.: White, Gallatin	1920	
		"	Inman East Consol.: Gallatin	1690	
		"	Maunie South: White	1900	
		"	Mitchellsville: Saline	1330	
		"	New Harmony Consol.: White, Wabash, Edwards	1925	
	Clare	Clare	Black River: White	1865	
		"	Epworth Consol.: White	2100	
		"	Herald Consol.: White, Gallatin	1965	
		"	Inman East Consol.: Gallatin	1725	
		"	New Harmony Consol.: White, Wabash, Edwards	1980	
	Palestine	Palestine	Ab Lake: Gallatin	1835	
		"	Centerville East: White	2225	
		"	Eldorado Consol.: Saline	1920	
		"	Eldorado East: Saline	1915	
		"	Epworth Consol.: White	2150	
		"	Herald Consol.: White, Gallatin	1940	
		"	Inman East Consol.: Gallatin	1840	
		"	Inman West Consol.: Gallatin	1765	
		"	Long Branch: Saline, Hamilton	2070	
		"	Maunie South: White	2010	
		"	Mt. Carmel: Wabash	1580	
		"	New Harmony Consol.: White, Wabash, Edwards	2000	
		Waltersburg	Waltersburg	New Harmony South (Ind.): White	1955
	"		Omaha: Gallatin	1700	
	"		Phillipstown Consol.: White, Edwards	2050	
	"		Ridgway: Gallatin	1730	
	"		Roland Consol.: White, Gallatin	2085	
	"		†Shawneetown: Gallatin	1720	
	Waltersburg		Waltersburg	Albion Consol.: Edwards, White	2365
			"	Allendale: Wabash, Lawrence	1540
			"	Bone Gap Consol.: Edwards	2310
			"	Clay City Consol.: Clay, Wayne, Richland, Jasper	2175
			"	Concord East Consol.: White	2140
			"	Eldorado Consol.: Saline	2125
			"	Epworth Consol.: White	2345
"			Harrisburg: Saline	2020	
"			Herald Consol.: White, Gallatin	2240	
"			Inman East Consol.: Gallatin	1980	
"		Inman West Consol.: Gallatin	2080		
"		Junction: Gallatin	1750		
"		Junction East: Gallatin	2000		
"		Maunie North Consol.: White	2305		
"		Maunie South: White	2210		
"		Mitchellsville: Saline	1505		
"	Mt. Carmel: Wabash	1690			
"	New Harmony Consol.: White, Wabash, Edwards	2155			
"	New Harmony South: White	2250			
"	New Harmony South (Ind.): White	2120			

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Waltersburg	Waltersburg	Parkersburg Consol.: Richland, Edwards	2430
		"	Phillipstown Consol: White, Edwards	2280
		"	Rochester: Wabash	1940
		"	Roland Consol: White, Gallatin	2200
		"	Ruark West Consol.: Lawrence	1780
		"	St. Francisville East: Lawrence	1300
		"	*Samsville: Edwards	2420
		"	†Shawneetown: Gallatin	1900
		"	Shawneetown East: Gallatin	1855
	"	Storms Consol: White	2230	
	Tar Springs	Tar Springs	Albion Consol.: Edwards, White	2460
		"	Allendale: Wabash, Lawrence	1600
		"	Benton: Franklin	2100
		"	Browns: Edwards, Wabash	2365
		"	Centerville East: White	2500
		"	Clay City Consol.: Clay, Wayne, Richland, Jasper	2560
		"	Concord Consol.: White	2270
		"	Concord East Consol.: White	2175
		"	Dale Consol.: Hamilton, Saline, Franklin	2430
		"	Eldorado Consol.: Saline	2200
		"	Eldorado East: Saline	2190
		"	Epworth Consol.: White	2360
		"	Harrisburg Gas: Saline	2115
		"	Herald Consol.: White, Gallatin	2260
		"	Inman East Consol.: Gallatin	2080
		"	Inman West Consol.: Gallatin	2140
		"	Iola Consol.: Clay, Effingham	1890
		"	Kenner: Clay	2200
		"	Lawrence: Lawrence, Crawford	1410
		"	Louden: Fayette, Effingham	1170
		"	Maunie North Consol.: White	2350
		"	Maunie South: White	2270
		"	Mt. Carmel: Wabash	1690
		"	New Harmony Consol.: White, Wabash, Edwards	2215
		"	New Harmony South: White	2350
		"	New Haven Consol.: White	2105
		"	Omaha: Gallatin	1900
"		Phillipstown Consol.: White, Edwards	2295	
"	Phillipstown South: White	2345		
"	Raleigh: Saline	2235		
"	Roland Consol.: White, Gallatin	2300		
"	Sailor Springs Central: Clay	2330		
"	Sailor Springs Consol.: Clay, Effingham	2340		
"	†Shawneetown: Gallatin	1960		
"	Storms Consol.: White	2340		
"	Sumpter: White	2575		
"	Sumpter South: White	2580		
"	Walpole: Hamilton	2465		
"	West Frankfort: Franklin	2060		
"	Woodlawn: Jefferson	x		
Glen Dean	Glen Dean	Sailor Springs Consol.: Clay, Effingham	2390	
Hardinsburg	Hardinsburg	Albion Consol.: Edwards, White	2635	
	"	Allendale: Wabash, Lawrence	1780	
	"	Centerville East: White	2615	
	"	Concord Consol.: White	2485	
		Dale Consol.: Hamilton, Saline, Franklin	2480	

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Hardinsburg	Hardinsburg	Eldorado Consol: Saline	2350
		"	Inman East Consol.: Gallatin	2135
		"	Inman West Consol.: Gallatin	2300
		"	Junction: Gallatin	2120
		"	Lawrence: Lawrence, Crawford	1570
		"	Main: Crawford	1075
		"	Maunie North Consol.: White	2565
		"	New Haven Consol.: White	2245
		"	Roland Consol.: White, Gallatin	2550
		"	St. Francisville East: Lawrence	1460
	"	Sumpter: White	2655	
	"	Whittington: Franklin	2310	
	Golconda	Golconda ls.	Carlyle: Clinton	900
		Jackson	Lawrence: Lawrence, Crawford	1370
		"	Mt. Carmel: Wabash	2020
		Golconda ls.	Panama: Bond, Montgomery	705
		"	Roland Consol.: White, Gallatin	2505
	"	St. James: Fayette	1555	
	"	"Barlow" ls.	Irvington: Washington	1525
	Cypress	Cypress-Weiler	Ab Lake West: Gallatin	2425
		"	Akin: Franklin	2840
		"	Akin West: Franklin	2715
		"	Albion Consol.: Edwards, White	2860
		"	Albion East: Edwards	2800
		"	Allendale: Wabash, Lawrence	1920
		"	Alma: Marion	1805
		"	*Ava-Campbell Hill: Jackson	780
		Carlyle	Bartelso: Clinton	985
		Cypress-Weiler	Bartelso West: Clinton	960
		"	Beaver Creek South: Clinton, Bond	1015
		Bellair 900	Bellair: Crawford, Jasper	885
		Cypress-Weiler	Benton North: Franklin	2460
		"	Bible Grove North: Effingham	2535
"		Bible Grove South: Clay	2500	
"		Bone Gap Consol.: Edwards	2710	
"		Brown: Marion	1660	
"		Browns: Edwards, Wabash	2640	
"		Browns East: Wabash	2570	
Carlyle		Carlyle: Clinton	1035	
Cypress-Weiler		*Carlyle South: Clinton	1075	
"		Carmi: White	2800	
"		Carmi North: White	2940	
"	Centerville East: White	2915		
Stein	Centralia: Clinton, Marion	1200		
Cypress-Weiler	Clay City Consol.: Clay, Wayne, Richland, Jasper	2635		
"	Clay City West: Clay	2700		
"	Concord Consol.: White	2625		
"	Concord East Consol.: White	2540		
"	Cooks Mills Consol.: Coles	1600		
"	Dale Consol.: Hamilton, Saline, Franklin	2700		
"	Dubois: Washington	1230		
"	Eberle: Effingham	2475		
"	Eldorado Consol.: Saline	2575		
"	Eldorado East: Saline	2515		
"	Elliottstown East: Effingham	2485		
"	Elliottstown North: Effingham	2430		
"	Epworth Consol.: White	2730		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Cypress	Cypress-Weiler	Francis Mills: Saline	2675
		"	Freeburg South: St. Clair	385
		Carlyle	†Frogtown: Clinton	950
		Upper Lindley	*Greenville Gas: Bond	925
		Cypress-Weiler	Harco East: Saline	2555
		"	Harrisburg South: Saline	2301
		"	Herald Consol.: White, Gallatin	2660
		"	Hill East: Effingham	2460
		"	Hoffman: Clinton	1190
		"	Huey South: Clinton	1080
		"	Inman East Consol.: Gallatin	2390
		"	Inman West Consol.: Gallatin	2475
		"	Iola Consol.: Clay, Effingham	2125
		"	Irvington: Washington	1380
		"	Irvington East: Jefferson	1750
		"	Irvington North: Washington	1340
		"	Junction: Gallatin	2275
		"	Junction North: Gallatin	2450
		"	Keensburg South: Wabash	2385
		"	Kenner West: Clay	2600
		"	Langewisch-Kuester: Marion	1600
		Kirkwood	Lawrence: Lawrence, Crawford	1400
		Cypress-Weiler	Lexington: Wabash	2585
		"	Long Branch: Saline, Hamilton	2745
		"	Long Branch South: Saline	2660
		"	Louden: Fayette, Effingham	1500
		"	Main: Crawford, Lawrence	1480
		"	Mattoon: Coles	1750
		"	Maunie South: White	2590
		"	Mt. Carmel: Wabash	2025
		"	New Harmony Consol.: White, Wabash, Edwards	2570
		"	New Harmony South: White	2670
		"	New Haven Consol.: White	2445
		"	Odin: Marion	1750
		"	Omaha South: Gallatin, Saline	2535
		"	Omaha West: Saline	2600
		"	Parkersburg Consol.: Richland, Edwards	2830
		"	Passport South: Richland	2665
		"	Patoka: Marion	1280
		"	Patoka East: Marion	1340
		"	Patoka South: Marion	1350
		"	Phillipstown Consol.: White, Edwards	2720
		"	Posey: Clinton	1105
		"	Raccoon Lake: Marion	1625
		"	Raleigh: Saline	2550
		"	Richview: Washington	1520
		"	Roland Consol.: White, Gallatin	2700
"	Ruark West Consol.: Lawrence	2165		
"	St. Francisville East: Lawrence	1605		
"	St. James: Fayette	1580		
"	Sailor Springs Consol.: Clay, Effingham	2550		
"	*Sailor Springs East: Clay	2695		
"	Sandoval West: Clinton	1420		
"	*Santa Fe: Clinton	955		
"	Sesser: Franklin	2455		
"	Shattuc: Clinton	1280		
Sparta Gas	*Sparta: Randolph	850		
Cypress-Weiler	*Sparta South: Randolph	880		
"	Storms Consol.: White	2700		
"	Stubblefield South: Bond	985		
"	Sumpter: White	2860		

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Cypress	Cypress-Weiler	Sumpter East: White	2795
		"	Tamaroa: Perry	1120
		"	Thackeray: Hamilton	3030
		"	Thompsonville North: Franklin	2750
		"	Toliver East: Clay	2510
		"	Trumbull: White	2845
		"	Whittington: Franklin	2535
		"	Whittington South: Franklin	2580
		"	Woburn Consol.: Bond	865
	"	Woodlawn: Jefferson	1800	
	"	Xenia East: Clay	2500	
	Paint Creek	Paint Creek	Albion East: Edwards	2910
		Stray	Benton North: Franklin	2595
		Paint Creek	Carmi North: White	3080
		"	Centerville East: White	2980
		"	Dale Consol.: Hamilton, Saline, Franklin	2950
		"	Eldorado Consol.: Saline	2680
		"	Harco: Saline	2675
		"	Herald Consol.: White, Gallatin	x
		"	Iola Consol.: Clay, Effingham	2255
		"	Lancaster: Wabash, Lawrence	2530
		"	Lawrence: Lawrence, Crawford	1600
		"	Lawrence West: Lawrence	2040
		Stray	Louden: Fayette, Effingham	1540
	Paint Creek	Maunie North Consol.: White	2830	
	"	Mt. Carmel: Wabash	2095	
	"	New Harmony Consol.: White, Wabash, Edwards	2660	
	"	Parkersburg Consol.: Richland, Edwards	2955	
	"	Phillipstown Consol.: White, Edwards	2780	
	"	Roland Consol.: White, Gallatin	2800	
	Bethel	Bethel or Benoist	Albion Consol.: Edwards, White	2960
		"	Albion East: Edwards	2920
		"	Allendale: Wabash, Lawrence	2010
"		Alma: Marion	1945	
"		Ashley: Washington	1430	
"		Assumption Consol.: Christian	1050	
"		*Ayers Gas: Bond	940	
"		Beaucoup South: Washington	1430	
"		Beaver Creek: Bond, Clinton	1130	
"		*Beaver Creek North: Bond	1115	
"		Beaver Creek South: Clinton, Bond	1140	
"		Bellmont: Wabash	2650	
"		Benton North: Franklin	2600	
"		Bone Gap Consol.: Edwards	2880	
"		Boulder: Clinton	1190	
"		Boyd: Jefferson	2060	
"		Browns: Edwards, Wabash	2785	
"		Browns South: Edwards	2850	
"		Carlyle North: Clinton	1150	
"		Centerville East: White	2990	
"		*Centerville North: White	2990	
"		Centerville Northeast: White	3055	
"		Centralia: Clinton, Marion	1355	
"		Centralia West: Clinton	1440	
"	Clarksburg: Shelby	1770		
"	Clay City Consol.: Clay, Wayne, Richland, Jasper	2800		
"	Cordes: Washington	1260		
"	Cravat: Jefferson	2070		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Chester (Upper Mississippian) series	Bethel	Bethel or Benoist	*Crossville: White	2880	
		"	Dale Consol.: Hamilton, Saline, Franklin	2975	
		"	*Dix South: Jefferson	1950	
		"	Dubois: Washington	1325	
		"	Dubois Central: Washington	1335	
		"	Elba: Gallatin	2660	
		"	Elkville: Jackson	2000	
		"	Ellery Consol.: Edwards, Wayne	3110	
		"	†Ellery North: Edwards	3100	
		"	Fairman: Marion, Clinton	1435	
		"	*Fitzgerrell: Jefferson	2760	
		"	Friendsville Central: Wabash	2330	
		"	Goldengate North Consol.: Wayne	3095	
		"	Herald Consol.: White, Gallatin	2790	
		"	Hoffman: Clinton	1320	
		"	Huey: Clinton	1260	
		"	Iola Central: Clay	2420	
		"	Iola Consol.: Clay, Effingham	2290	
		"	Iola South: Clay	2490	
		"	Irvington: Washington	1535	
		"	Irvington East: Jefferson	1950	
		"	Irvington North: Washington	1470	
		"	Johnsonville Consol.: Wayne	2950	
		"	Johnsonville West: Wayne	2925	
		"	Kenner: Clay	2690	
		"	Kenner North: Clay	2755	
		"	Kenner West: Clay	2705	
		"	Keyesport: Clinton	1180	
		"	Kinmundy: Marion	1915	
		"	*Kinmundy North: Marion	2040	
		"	Laclede: Fayette	2335	
		"	Lakewood: Shelby	1690	
		"	Lancaster: Wabash, Lawrence	2540	
		"	Lancaster South: Wabash	2520	
		"	Tracey	Lawrence: Lawrence, Crawford	1650
		"	Bethel or Benoist	Lawrence West: Lawrence	2050
		"	"	Louden: Fayette, Effingham	1550
		"	"	McKinley: Washington	1000
		"	"	Main: Crawford, Lawrence	1580
		"	"	Mason: Effingham	2295
		"	"	Mason North: Effingham	2290
		"	"	Maunie North Consol.: White	2820
		"	"	Maunie South: White	2735
		"	"	Miletus: Marion	2140
		"	"	Mt. Carmel: Wabash	2110
		"	"	New Harmony Consol.: White, Wabash, Edwards	2700
		"	"	New Harmony South: White	2815
		"	"	Omaha: Gallatin	2570
		"	"	Oskaloosa: Clay	2595
		"	"	Pana: Christian	1470
		"	"	Panama: Bond, Montgomery	865
		"	"	Parkersburg Consol.: Richland, Edwards	2930
		"	"	Parkersburg South: Edwards	2815
		"	"	Patoka: Marion	1410
		"	"	Patoka East: Marion	1465
		"	"	Patoka West: Fayette	1380
		"	"	Phillipstown Consol.: White, Edwards	2810
		"	"	Posen South: Washington	1255
"	"	Roaches: Jefferson	2000		
"	"	Roaches North: Jefferson	1925		
"	"	Roland Consol.: White, Gallatin	2800		
"	"	Ruark: Lawrence	2065		

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Bethel	Bethel or Benoist	Ruark West Consol.: Lawrence	2220
		"	St. Francisville: Lawrence	1845
		"	St. Francisville East: Lawrence	1750
		"	St. Paul: Fayette	1900
		"	Sailor Springs Consol.: Clay, Effingham	2740
		"	Salem Consol.: Marion, Jefferson	1780
		"	Samsville North: Edwards	2900
		"	Sandoval: Marion	1540
		"	Shattuc: Clinton	1420
		"	Shawneetown East: Gallatin	2480
		"	Storms Consol.: White	2810
		"	Tonti: Marion	1930
		"	Waltonville: Jefferson	2460
		"	Whittington West: Franklin	2615
	"	Williams Consol.: Jefferson	2490	
	"	Woburn Consol.: Bond	1020	
	"	Woodlawn: Jefferson	1960	
	"	Xenia East: Clay	2710	
	Renault	Renault	Ab Lake: Gallatin	2735
		"	Albion Consol.: Edwards, White	3000
		"	Albion East: Edwards	2925
		"	Bungay Consol.: Hamilton	3270
		"	Eldorado West: Saline	2910
		"	Epworth Consol.: White	2990
		"	†Ina: Jefferson	2725
		"	Inman West Consol.: Gallatin	2775
		"	Iola Consol.: Clay, Effingham	2320
		"	Lawrence: Lawrence, Crawford	1695
	"	Salem Consol.: Marion, Jefferson	x	
	"	Sesser: Franklin	2690	
	Aux Vases	Aux Vases	Ab Lake: Gallatin	2770
		"	Ab Lake West: Gallatin	2735
		"	Aden Consol.: Wayne, Hamilton	3200
		"	Aden South: Hamilton	3245
		"	Akin: Franklin	3100
		"	Albion Consol.: Edwards, White	3045
"		Albion East: Edwards	3020	
"		Allendale: Wabash, Lawrence	2280	
"		*Amity West: Richland	2925	
"		Barnhill: Wayne	3325	
"		Bellair: Crawford, Jasper	1200	
"		Belle Prairie: Hamilton	3250	
"		Beman: Lawrence	1805	
"		Beman East: Lawrence	1805	
"		Benton North: Franklin	2685	
"		Bible Grove South: Clay	2740	
"		Bone Gap Consol.: Edwards	3020	
"		Boyd: Jefferson	2130	
"		Browns: Edwards, Wabash	2965	
"		Browns South: Edwards	2950	
"		Bungay Consol.: Hamilton	3295	
"		Burnt Prairie South: White	3330	
"		*Calhoun South: Wayne	3175	
"		Cantrell North: Hamilton	3270	
"		Carmi: White	3145	
"		Carmi North: White	3270	
"	Centerville: White	3240		
"	Centerville East: White	3075		
"	Christopher Consol.: Franklin	2605		
"	Clay City Consol.: Clay, Wayne, Richland, Jasper	2940		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Aux Vases	Aux Vases	Clay City West: Clay	2950
		"	Coil: Wayne	2700
		"	Coil West: Jefferson	2720
		"	Concord Consol.: White	2905
		"	Concord East Consol.: White	2825
		"	†Cooks Mills Consol.: Coles	1765
		"	Cooks Mills East: Coles	1740
		"	*Crossville West: White	3030
		"	Dale Consol.: Hamilton, Saline, Franklin	3150
		"	Divide East: Jefferson	2620
		"	Eldorado Consol.: Saline	2900
		"	Eldorado East: Saline	2885
		"	Eldorado West: Saline	2960
		"	Ellery Consol.: Edwards, Wayne	3235
		"	Ellery East: Edwards	3180
		"	†Ellery North: Edwards	3230
		"	†Ellery South: Edwards	3200
		"	†Enfield: White	3250
		"	Epworth Consol.: White	3000
		"	Ewing: Franklin	2835
		"	*Fitzgerrell: Jefferson	2800
		"	†Gays: Moultrie	1970
		"	Goldengate Consol.: Wayne, White	3180
		"	Goldengate North Consol.: Wayne	3235
		"	Half Moon: Wayne	3190
		"	Harco: Saline	2860
		"	Herald Consol.: White, Gallatin	2920
		"	Hord South: Clay	2735
		"	†Ingraham: Clay	2915
		"	Inman East Consol.: Gallatin	2715
		"	Inman West Consol.: Gallatin	2790
		"	Iola Consol.: Clay, Effingham	2325
		"	Johnsonville Consol.: Wayne	3020
		"	Johnsonville South: Wayne	3060
		"	Johnsonville West: Wayne	2900
		"	Junction North: Gallatin	2725
		"	Keenville: Wayne	2960
		"	Kenner: Clay	2835
		"	King: Jefferson	2725
		"	Lakewood: Shelby	1720
		"	Lawrence: Lawrence, Crawford	1775
		"	Lawrence West: Lawrence	2110
		"	Locust Grove: Wayne	3215
		"	Long Branch: Saline, Hamilton	3095
		"	Louden: Fayette, Effingham	1600
		"	Louisville North: Clay	2760
		"	Main: Crawford, Lawrence	1530
		"	Maple Grove Consol.: Edwards, Wayne	3145
		"	Marion: Williamson	2385
		"	Markham City North: Jefferson, Wayne	2950
"	Markham City West: Jefferson	2905		
"	Mason North: Effingham	2355		
"	Mattoon: Coles	1900		
"	*Maunie East: White	2870		
"	Maunie North Consol.: White	2930		
"	Maunie South: White	2845		
"	Miletus: Marion	2200		
"	Mill Shoals: White, Hamilton, Wayne	3245		
"	Mt. Erie North: Wayne	3110		
"	Mt. Vernon: Jefferson	2665		
"	New Harmony Consol.: White, Wabash, Edwards	2800		
"	New Harmony South: White	3005		

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Chester (Upper Mississippian) series	Aux Vases	Aux Vases	New Haven Consol.: White	2720
		"	New Hebron East: Crawford	1555
		"	Oak Point: Clark	1185
		"	Oak Point West: Clark	1190
		"	Omaha: Gallatin	2730
		"	Omaha East: Gallatin	2790
		"	Omaha South: Gallatin, Saline	2870
		"	Omaha West: Saline	2800
		"	Orchardville: Wayne	2800
		"	Oskaloosa East: Clay	2820
		"	Phillipstown Consol.: White, Edwards	2880
		"	Phillipstown South: White	2985
		"	Raleigh: Saline	2905
		"	Raleigh South: Saline	2860
		"	Roland Consol.: White, Gallatin	2880
		"	Roland West: Saline	2935
		"	Ste. Marie West: Jasper	2720
		"	Sailor Springs Consol.: Clay, Effingham	2825
		"	Salem Consol.: Marion, Jefferson	1825
		"	Sesser: Franklin	2700
		"	†Shawneetown: Gallatin	2650
		"	Shawneetown East: Gallatin	2660
		"	†Shawneetown North: Gallatin	2750
		"	Shelbyville: Shelby	1860
		"	Shelbyville East: Shelby	1810
		"	Stanford South: Clay	2970
		"	Stewardson: Shelby	1945
		"	Storms Consol.: White	2900
		"	Sumpter East: White	3020
		"	Sumpter North: White	3185
		"	Sumpter West: White	3165
		"	Thackeray: Hamilton	3360
		"	Thompsonville East: Franklin	3150
		"	Thompsonville North: Franklin	3100
"	Toliver South: Clay	2765		
"	Tonti: Marion	2005		
"	Trumbull: White	3170		
"	Trumbull West: White	3120		
"	Walpole: Hamilton	3070		
"	Walpole South: Hamilton	3125		
"	West Frankfort: Franklin	2710		
"	Whittington: Franklin	2735		
"	Whittington West: Franklin	2680		
"	Williams Consol.: Jefferson	2550		
"	Woodlawn: Jefferson	1975		
"	Xenia: Clay	2785		
Iowa (Lower Mississippian) series	Ste. Genevieve Levias member	Ohara "lime"	Aden Consol.: Wayne, Hamilton	3290
		"	Aden South: Hamilton	3310
		"	Akin West: Franklin	3050
		"	Albion Central: Edwards	3370
		"	Albion Consol.: Edwards, White	3110
		"	Albion East: Edwards	3100
		"	Allendale: Wabash, Lawrence	2300
		"	Barnhill: Wayne	3370
		"	Bellair: Crawford, Clark	860
		"	Bellmont: Wabash	2840
		"	Benton North: Franklin	2730
		"	Berryville Consol.: Wabash, Edwards	2900
		"	Bessie: Franklin	2895
		"	Bone Gap Consol.: Edwards	3040
"	Bone Gap East: Edwards	2980		
"	Bone Gap West: Edwards	3290		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Iowa (Lower Mississippian) series	Ste. Genevieve	Levias member	Ohara "lime"	Boyd: Jefferson	2230
			"	Browns: Edwards, Wabash	2965
			"	Bungay Consol.: Hamilton	3335
			"	Burnt Prairie South: White	3415
			"	Calhoun Consol.: Richland, Wayne	3140
			"	Centerville: White	3310
			"	Centerville East: White	3175
			"	Christopher Consol.: Franklin	2675
			"	Clay City Consol.: Clay, Wayne, Richland, Jasper	3020
			"	Coil West: Jefferson	2790
			"	Concord Consol.: White	2930
			"	Concord East Consol.: White	2895
			"	Cottage Grove: Saline	2770
			"	*Crossville: White	3100
			"	Dale Consol.: Hamilton, Saline, Franklin	3110
			"	Divide: Jefferson	2705
			"	Divide West: Jefferson	2680
			"	Dundas East: Richland, Jasper	2905
			"	Elba: Gallatin	2820
			"	Eldorado Consol.: Saline	2900
			"	Ellery Consol.: Edwards, Wayne	3300
			"	Ellery East: Edwards	3250
			"	†Enfield: White	3310
			"	Epworth Consol.: White	3095
			"	Exchange: Marion	2695
			"	Exchange East: Marion	2775
			"	Francis Mills South: Saline	3010
			"	Gards Point: Wabash	2840
			"	Gards Point North: Wabash	2850
			"	Goldengate Consol.: Wayne, White	3250
			"	Goldengate East: Wayne	3290
			"	Goldengate North Consol.: Wayne	3300
			"	Half Moon: Wayne	3280
			"	Harco East: Saline	2880
			"	Herald Consol.: White, Gallatin	2965
			"	Inman East Consol.: Gallatin	2795
			"	Inman West Consol.: Gallatin	2815
			"	Iuka: Marion	2650
			"	Johnsonville Consol.: Wayne	3120
			"	Johnsonville North: Wayne	3190
			"	Johnsonville West: Wayne	2930
			"	*Keensburg East: Wabash	2705
			"	Keensburg South: Wabash	2715
			"	Keenville: Wayne	3050
			"	King: Jefferson	2765
			"	Lancaster: Wabash, Lawrence	2670
			"	Lancaster Central: Wabash	2750
			"	Lancaster South: Wabash	2670
			"	Lawrence: Lawrence, Crawford	1750
			"	Lexington North: Wabash	2915
			"	Locust Grove: Wayne	3240
			"	Maple Grove Consol.: Edwards, Wayne	3230
			"	*Massilon: Wayne, Edwards	3255
			"	*Massilon South: Edwards	3315
"	Maunie North Consol.: White	2995			
"	Mill Shoals: White, Hamilton, Wayne	3320			
"	*Mills Prairie: Edwards	2925			
"	Mills Prairie North: Edwards	2925			
"	Mt. Carmel: Wabash	2320			
"	Mt. Erie North: Wayne	3170			
"	Mt. Vernon: Jefferson	2750			

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Iowa (Lower Mississippian) series	Ste. Genevieve	Ohara "lime"	New Harmony Consol.: White, Wabash, Edwards	2900	
		"	Olney Consol.: Richland	3005	
		"	Omaha East: Gallatin	2855	
		"	Orchardville: Wayne	2880	
		"	Parkersburg Consol.: Richland, Edwards	3100	
		"	Parkersburg West: Richland, Edwards	3220	
		"	Phillipstown Consol.: White, Edwards	3010	
		"	Raccoon Lake: Marion	1885	
		"	Roaches: Jefferson	2170	
		"	Roland Consol.: White, Gallatin	3020	
		"	Ruark: Lawrence	2275	
		"	Ruark West Consol.: Lawrence	2350	
		"	Sailor Springs Consol.: Clay, Effingham	2900	
		"	Salem Consol.: Marion, Jefferson	2075	
		"	Samsville Northwest: Edwards	3190	
		"	Samsville West: Edwards	3260	
		"	Sumpter East: White	3115	
		"	Taylor Hill: Franklin	3055	
		"	Thackeray: Hamilton	3435	
		"	Trumbull: White	3230	
	"	West Frankfort: Franklin	2760		
	"	Whittington: Franklin	2835		
	"	Whittington West: Franklin	2800		
	"	Zenith South: Wayne	2920		
		Rosiclare member	Rosiclare	Aden Consol.: Wayne, Hamilton	3320
			"	Aden South: Hamilton	3330
			"	Akin West: Franklin	3080
			"	Albion Consol.: Edwards, White	3130
			"	Albion East: Edwards	3125
			"	Allendale: Wabash, Lawrence	2300
			"	Alma: Marion	2085
			"	*Amity South: Richland	2890
			"	Assumption Consol.: Christian	1170
			"	Barnhill: Wayne	3400
			"	Beman: Lawrence	1850
			"	Beman East: Lawrence	1860
			"	Benton North: Franklin	2775
			"	Berryville Consol.: Wabash, Edwards	2850
			"	Bible Grove North: Effingham	2835
			"	Blairsville West: Hamilton	3345
	"		Bogota: Jasper	3090	
	"		Bone Gap Consol.: Edwards	3045	
	"		Browns: Edwards, Wabash	2975	
	"		Bungay Consol.: Hamilton	3400	
	"	*Calhoun Central: Richland	3245		
	"	Calhoun Consol.: Richland, Wayne	3160		
	"	Calhoun North: Richland	3155		
	"	Centerville: White	x		
	"	Centerville East: White	3185		
	"	*Claremont Gas: Richland	3200		
	"	Clay City Consol.: Clay, Wayne, Richland, Jasper	3030		
	"	Coil West: Jefferson	2805		
	"	Concord Consol.: White	3035		
	"	Concord East Consol.: White	2875		
	"	†Cooks Mills Consol.: Coles	1820		
	"	Cooks Mills East: Coles	1800		
	"	Dale Consol.: Hamilton, Saline, Franklin	3130		
	"	Divide East: Jefferson	2700		
	"	Divide West: Jefferson	2700		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Iowa (Lower Mississippian) series	Ste. Genevieve	Rosiclare	Dubois Central: Washington	1525
		"	Dundas East: Richland, Jasper	2920
		"	Eberle: Effingham	2680
		"	Eldorado Consol.: Saline	2900
		"	Eldorado East: Saline	2975
		"	Ellery Consol.: Edwards, Wayne	3320
		"	Ellery East: Edwards	3255
		"	†Ellery North: Edwards	3345
		"	*Elliottstown: Effingham	2730
		"	Epworth Consol.: White	3115
		"	*Evers: Effingham	2610
		"	*Evers South: Effingham	2650
		"	Exchange East: Marion	2780
		"	Goldengate Consol.: Wayne, White	3275
		"	Goldengate North Consol.: Wayne	3325
		"	Half Moon: Wayne	3280
		"	Herald Consol.: White, Gallatin	3005
		"	Hidalgo North: Cumberland	2655
		"	Hill East: Effingham	2660
		"	*Hunt City: Jasper	2540
		"	†Ingraham: Clay	3000
		"	Inman East Consol.: Gallatin	2790
		"	Inman West Consol.: Gallatin	2815
		"	Iola Consol.: Clay, Effingham	2400
		"	Iola South: Clay	2590
		"	Iuka: Marion	2660
		"	Johnsonville Consol.: Wayne	3150
		"	Johnsonville North: Wayne	3220
		"	Johnsonville South: Wayne	3160
		"	Johnsonville West: Wayne	3015
		"	Junction North: Gallatin	2860
		"	Keenville: Wayne	3060
		"	Kenner: Clay	2875
		"	King: Jefferson	2815
		"	Lancaster Central: Wabash	2810
		"	Lancaster East: Wabash	2660
		"	Lawrence: Lawrence, Crawford	1860
		"	Locust Grove South: Wayne	3300
		"	Maple Grove Consol.: Edwards, Wayne	3250
		"	Mason North: Effingham	2390
		"	Mattoon: Coles	1950
		"	Maunie North Consol.: White	3025
		"	Maunie South: White	2900
		"	Mill Shoals: White, Hamilton, Wayne	3345
		"	Mt. Carmel: Wabash	2350
		"	Nason: Jefferson	2790
		"	New Harmony Consol.: White, Wabash	
"	Edwards	2910		
"	Olney Consol.: Richland	3050		
"	†Olney South: Richland	3100		
"	Omaha South: Gallatin, Saline	2865		
"	Parkersburg Consol.: Richland, Edwards	3150		
"	Passport: Clay	3005		
"	Passport South: Richland	3025		
"	Passport West: Clay	3030		
"	Patoka: Marion	1550		
"	Phillipstown Consol.: White, Edwards	2960		
"	Raccoon Lake: Marion	1930		
"	Riffle: Clay	2735		
"	Rinard North: Wayne	3135		
"	Ritter: Richland	3210		
"	Roaches: Jefferson	2190		
"	Roaches North: Jefferson	2115		

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Iowa (Lower Mississippian) series	Ste. Genevieve	Rosiclare	Roland Consol.: White, Gallatin	3050	
		"	Ruark West Consol.: Lawrence	2390	
		"	*Rural Hill North: Hamilton	3325	
		"	Russellville West: Lawrence	1560	
		"	St. James: Fayette	1860	
		"	St. Paul: Fayette	2080	
		"	Sailor Springs Central: Clay	3015	
		"	Sailor Springs Consol.: Clay, Effingham	2900	
		"	*Sailor Springs North: Clay	2985	
		"	Salem Consol.: Marion, Jefferson	2100	
		"	Samsville West: Edwards	3275	
		"	Schnell South: Clay	3005	
		"	Sesser: Franklin	2810	
		"	Sumpter East: White	3140	
		"	Toliver East: Clay	2815	
		"	Tonti: Marion	2125	
		"	Trumbull: White	3270	
		"	*Wakefield: Jasper	3100	
		"	Walpole: Hamilton	3195	
		"	West Frankfort: Franklin	2810	
	"	Whittington: Franklin	2880		
	"	Whittington West: Franklin	2780		
	"	Woodlawn: Jefferson	2205		
	"	Zenith North: Wayne	3080		
		Rosiclare member			
		Fredonia member	McClosky "lime"	Ab Lake West: Gallatin	2830
			"	Aden Consol.: Wayne, Hamilton	3350
			"	Aden South: Hamilton	3395
			"	Akin: Franklin	3270
			"	Akin West: Franklin	3130
			"	Albion Consol.: Edwards, White	3200
			"	Albion East: Edwards	3155
			"	*Albion West: Edwards	3375
			"	Allendale: Wabash, Lawrence	2300
			"	Amity: Richland	2960
			"	Barnhill: Wayne	3450
			"	Belle Prairie: Hamilton	3420
			"	Belle Rive: Jefferson	3085
			"	*Bennington South: Edwards	3240
			"	Benton North: Franklin	2800
	"		Berryville Consol.: Wabash, Edwards	2890	
	"		Bible Grove North: Effingham	2875	
	"		Blairsville West: Hamilton	3405	
	"		Bogota: Jasper	3110	
	"		*Bogota North: Jasper	3080	
	"	Bogota South: Jasper	3075		
	"	Bone Gap Consol.: Edwards	3200		
	"	Bone Gap East: Edwards	3050		
	"	*Broughton: Hamilton	3275		
	"	*Broughton South: Saline	3215		
	"	Browns: Edwards, Wabash	3000		
	"	Bungay Consol.: Hamilton	3425		
	"	Burnt Prairie South: White	3460		
	"	*Calhoun Central: Richland	3280		
	"	Calhoun Consol.: Richland, Wayne	3180		
	"	Calhoun East: Richland	3265		
	"	Calhoun North: Richland	3170		
	"	Carmi: White	3150		
	"	Centerville: White	3370		
	"	Centerville East: White	3230		
	"	Clay City Consol.: Clay, Wayne, Richland, Jasper	3050		
	"	Clay City West: Clay	3065		

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Iowa (Lower Mississippian) series	Stc. Genevieve	Fredonia member	McClosky "lime"	Coil: Wayne	3065
			"	Coil West: Jefferson	2880
			"	Concord Consol.: White	2990
			"	Concord East Consol.: White	2960
			"	†Cooks Mills Consol.: Coles	1840
			"	Covington South: Wayne	3310
			"	*Crossville: White	3120
			"	Dahlgren: Hamilton	3300
			"	Dale Consol.: Hamilton, Saline, Franklin	3150
			"	Divide: Jefferson	2750
			"	Divide East: Jefferson	2750
			"	Divide South: Jefferson	2880
			"	Divide West: Jefferson	2750
			"	Dundas East: Richland, Jasper	2950
			"	Eberle: Effingham	2820
			"	Elbridge: Edgar	950
			"	Eldorado Consol.: Saline	2975
			"	*Elk Prairie: Jefferson	2735
			"	Ellery Consol.: Edwards, Wayne	3350
			"	†Ellery North: Edwards	3420
			"	†Ellery South: Edwards	3300
			"	†Enfield: White	3385
			"	*Evers: Effingham	2660
			"	Ewing: Franklin	2970
			"	Exchange: Marion	2730
			"	Exchange East: Marion	2840
			"	*Exchange North: Marion	2715
			"	Flora South: Clay	2985
			"	Goldengate Consol.: Wayne, White	3310
			"	Goldengate North Consol.: Wayne	3350
			"	Half Moon: Wayne	3300
			"	Herald Consol.: White, Gallatin	3010
			"	†Hidalgo: Jasper	2575
			"	*Hill: Effingham	2565
			"	Hill East: Effingham	2700
			"	*Hoodville East: Hamilton	3365
			"	Hord: Clay	2800
			"	Hord South: Clay	2790
			"	*Hunt City East: Jasper	1845
			"	Hunt City South: Jasper	2445
			"	Ina North: Jefferson	2940
			"	†Ingraham: Clay	3075
			"	Inman East Consol.: Gallatin	2800
			"	Inman West Consol.: Gallatin	2940
			"	Iola Consol.: Clay, Effingham	2425
			"	Iola South: Clay	2650
			"	*Iola West: Clay	2495
			"	Iuka: Marion	2750
			"	Iuka West: Marion	2700
			"	Johnsonville Consol.: Wayne	3170
			"	Johnsonville North: Wayne	3250
			"	Johnsonville South: Wayne	3200
			"	Johnsonville West: Wayne	3100
			"	Junction: Gallatin	2730
			"	*Keensburg East: Wabash	2710
			"	Keenville: Wayne	3100
			"	Keenville East: Wayne	3140
"	*Kell: Jefferson	2625			
"	Kenner: Clay	2930			
"	Kenner North: Clay	2970			
"	*Kenner South: Clay	2870			
"	Kenner West: Clay	2870			

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet		
Iowa (Lower Mississippian) series	Ste. Genevieve	Fredonia member	McClosky "lime"	King: Jefferson	2840	
			"	Lancaster: Wabash, Lawrence	2690	
			"	Lancaster Central: Wabash	2815	
			"	Lancaster South: Wabash	2720	
			"	Lawrence: Lawrence, Crawford	1860	
			"	Lawrence West: Lawrence	2225	
			"	Lexington: Wabash	2970	
			"	Lillyville: Cumberland, Effingham	2425	
			"	Locust Grove: Wayne	3280	
			"	Long Branch: Saline, Hamilton	3220	
			"	Louden: Fayette, Effingham	1785	
			"	Lynchburg: Jefferson	3045	
			"	Oblong "sand"	Main: Crawford, Lawrence	1400
			"	McClosky "lime"	Maple Grove Consol.: Edwards, Wayne	3260
			"	"	*Maple Grove South: Edwards	3250
			"	"	*Marco: Jefferson	2745
			"	"	Markham City: Jefferson	3070
			"	"	Markham City North: Jefferson, Wayne	3075
			"	"	Markham City West: Jefferson	3035
			"	"	Mason: Effingham	2500
			"	"	Mason North: Effingham	2475
			"	"	Mattoon: Coles	2010
			"	"	Maunie North Consol.: White	3035
			"	"	Maunie South: White	2920
			"	"	Mayberry: Wayne	3350
			"	"	*Mayberry North: Wayne	3330
			"	"	Miletus: Marion	2350
			"	"	Mill Shoals: White, Hamilton, Wayne	3375
			"	"	Mt. Carmel: Wabash	2360
			"	"	Mt. Erie North: Wayne	3240
			"	"	Mt. Vernon: Jefferson	2800
			"	"	New Harmony Consol.: White, Wabash, Edwards	2925
			"	"	New Harmony South: White	3010
			"	"	New Haven Consol.: White	2820
			"	"	Newton: Jasper	2950
			"	"	*Newton North: Jasper	2855
			"	"	†Newton West: Jasper	3000
			"	"	Noble West: Clay	3035
			"	"	Olney Consol.: Richland	3100
			"	"	†Olney South: Richland	3115
			"	"	Omaha West: Saline	2910
			"	"	*Omega: Marion	2490
			"	"	Orchardville: Wayne	2905
			"	"	Oskaloosa East: Clay	2895
			"	"	Oskaloosa South: Clay	2770
			"	"	Parkersburg Consol.: Richland, Edwards	3175
			"	"	Parkersburg West: Richland, Edwards	3260
			"	"	Passport: Clay	3020
			"	"	Passport South: Richland	3030
			"	"	Patoka East: Marion	1635
"	"	Phillipstown Consol.: White, Edwards	3000			
"	"	*Pinkstaff: Lawrence	1735			
"	"	Pinkstaff East: Lawrence	1640			
"	"	Raccoon Lake: Marion	1950			
"	"	Reservoir: Jefferson	2700			
"	"	Ridgway: Gallatin	2840			
"	"	*Rinard: Wayne	3145			
"	"	Rinard North: Wayne	3140			
"	"	Ritter North: Richland	3215			
"	"	Roaches: Jefferson	2250			
"	"	Roland Consol.: White, Gallatin	3070			
"	"	Ruark West Consol.: Lawrence	2400			

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet	
Iowa (Lower Mississippian) series	Ste. Genevieve	Fredonia member	McClosky "lime"	Russellville: Lawrence	1560
			"	Ste. Marie: Jasper	2860
			"	*Ste. Marie East: Jasper	2685
			"	Ste. Marie West: Jasper	2815
			"	Sailor Springs Consol.: Clay, Effingham	2925
			"	Sailor Springs East: Clay	3020
			"	*Sailor Springs North: Clay	3030
			"	Salem Consol.: Marion, Jefferson	2050
			"	Samsville West: Edwards	3275
			"	Schnell: Richland	3000
			"	*Schnell East: Richland	3115
			"	Seminary: Richland	3195
			"	Sesser: Franklin	2840
			"	†Shawneetown North: Gallatin	3045
			"	Stanford South: Clay	3090
			"	Storms Consol.: White	3055
			"	Stringtown: Richland	3025
			"	*Stringtown East: Richland	3010
			"	Sumner: Lawrence	2260
			"	Sumpter East: White	3150
			"	Thackeray: Hamilton	3500
			"	*Thompsonville: Franklin	3120
			"	Toliver East: Clay	2840
			"	Tonti: Marion	2130
			"	Trumbull: White	3290
			"	Valier: Franklin	2715
			"	Wakefield North: Jasper	3000
			"	Wakefield South: Jasper	3040
			"	West Frankfort: Franklin	2825
			"	Whittington: Franklin	2870
			"	Whittington West: Franklin	2900
			"	Williams Consol: Jefferson	x
			"	Willow Hill East: Jasper	2645
"	Woodlawn: Jefferson	2200			
"	Zenith: Wayne	2970			
"	Zenith North: Wayne	3140			
"	Zenith South: Wayne	2985			
		St. Louis ls.	Clay City Consol.: Clay, Wayne, Richland, Jasper	3025	
		"	Divide: Jefferson	2850	
		"	Ellery Consol: Edwards, Wayne	3430	
		"	Exchange East: Marion	2940	
		"	Frogtown North: Clinton	1200	
		"	†Ina: Jefferson	3000	
		"	Iuka: Marion	2775	
		"	Lawrence: Lawrence, Crawford	1660	
		Martinsville "sand"	Martinsville: Clark	480	
		St. Louis ls.	New Harmony Consol.: White, Wabash, Edwards	3140	
		"	Roland Consol.: White, Gallatin	x	
		"	Salem Consol.: Marion, Jefferson	2100	
		"	Whittington: Franklin	3080	
	St. Louis-Salem	Westfield ls.	Westfield: Clark, Coles	335	

*Abandoned.

†Abandoned, revived.

xUndetermined.

TABLE 11.—(Continued)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Iowa (Lower Mississippian) series	Salem	Salem ls.	Aden Consol.: Wayne, Hamilton	3735
		"	Barnhill: Wayne	3795
		"	Clay City Consol.: Clay, Wayne, Richland, Jasper	3590
		"	Grandview: Edgar	570
		"	*Jacksonville Gas: Morgan	330
		"	Lawrence: Lawrence, Crawford	1955
		"	Main: Crawford, Lawrence	1815
	Warsaw	Warsaw ls.	Clay City Consol.: Clay, Wayne, Richland, Jasper	3600
	Osage group	Osage group	Carper	Casey: Clark
"			Johnson North: Clark	1325
"			Louden: Fayette, Effingham	2830
"			Martinsville: Clark	1340
"			Mattoon: Coles	2950
"			Oak Point: Clark	2220
Cole			Weaver: Clark	1565
Carper	Westfield: Clark, Coles	875		
Kinderhook (Lower Mississippian) series		Sylamore "Hardin"	Marine: Madison	1700
		"	St. Jacob East: Madison	1840
Devonian system		Cedar Valley ls.	Assumption Consol.: Christian	2300
		"	Assumption South: Christian	2630
		Devonian ls.	Bartelso South: Clinton	2475
		Clear Creek chert	Beaucoup: Washington	3050
		Geneva dol.	Boulder: Clinton	2630
		Devonian ls.	Boulder East: Clinton	2850
		Several ls.	Centralia: Clinton, Marion	2870
		Clear Creek chert	Christopher Consol.: Franklin	4430
		Devonian ls.	Clay City Consol.: Clay, Wayne, Richland, Jasper	4350
		Hoing ss.	Colmar-Plymouth: Hancock, McDonough	450
		Devonian ls.	Dudleyville East: Bond	2370
		Cedar Valley ls.	*Edinburg: Christian	1810
		Hibbard "sand"	Edinburg South: Christian	1790
		Devonian ls.	Edinburg West: Christian, Sangamon	1690
		"	Elbridge: Edgar	1950
		Bailey ls.	Elkton: Washington	2340
		Devonian ls.	Gays: Moultrie	3205
		Clear Creek chert	Hoyleton West: Washington	2895
		"	Irvington: Washington	3090
		Hibbard "sand"	Kincaid: Christian	1780
		"	Kincaid South: Christian	1850
		Geneva dol.	Louden: Fayette, Effingham	3000
		Devonian ls.	Main: Crawford, Lawrence	2795
"	Martinsville: Clark	1550		
Cedar Valley ls.	Oakley: Macon	2285		
Geneva dol.	Patoka: Marion	2835		
"	Patoka East: Marion	2950		
Devonian ls.	Posey East: Clinton	2740		
"	*Posey West: Clinton	2585		
Several ls.	Salem Consol.: Marion, Jefferson	3440		

TABLE 11.—(Concluded)

System or series	Group and/or formation	Producing strata (sandstone unless otherwise noted)	Pool: county	Approximate depth in feet
Devonian system		Geneva dol.	Sandoval: Marion	2920
		Clear Creek chert	Sesser: Franklin	4360
		Lingle ss.	†Sorento: Bond	1850
		Devonian ls.	Tonti: Marion	3500
		"	Weaver: Clark	2030
		Lingle ss.	Woburn Consol.: Bond	2275
		"	Woodlawn: Jefferson	3690
Devonian-Silurian		Devonian-Silurian ls.	Frogtown North: Clinton	2250
		"	New Memphis North: Clinton	2050
		"	Raccoon Lake: Marion	3330
		"	Waverly Gas: Morgan	1020
Silurian system		Silurian ls.	Baldwin: Randolph	1535
		"	Bartelso: Clinton	2420
		"	Bartelso East: Clinton	2550
		"	Blackland: Macon, Christian	1935
		"	Boulder: Clinton	2630
		"	*Collinsville: Madison	1305
		"	Decatur: Macon	2000
		"	*Decatur North: Macon	2220
		"	Edinburg West: Christian, Sangamon	1690
		Edgewood dol.	Fishhook Gas: Pike, Adams	450
		Silurian ls.	Glenarm: Sangamon	1680
		"	Harristown: Macon	2050
		"	McKinley: Washington	2240
		"	Marine: Madison	1700
		"	Mt. Auburn Consol.: Christian	1890
		"	New City: Sangamon	1730
		"	New Memphis: Clinton	1980
		"	*New Memphis South: Clinton	2000
		"	Okawville: Washington	2325
		"	Okawville North: Washington	2235
	"	*Pittsfield Gas: Pike	265	
	"	†Roby: Sangamon	1775	
	"	Tilden: Randolph	2160	
	"	Tovey: Christian	1850	
Ordovician system		"Trenton" ls.	Beaucoup: Washington	4095
		"	Centralia: Clinton, Marion	3930
		"	*Craig: Perry	3650
		"	Dupo: St. Clair	700
		"	Louden: Fayette, Effingham	3905
		"	Martinsville: Clark	2700
		"	Posen: Washington	3900
		"	Posen North: Washington	4015
		"	St. Jacob: Madison	2260
		"	Salem Consol.: Marion, Jefferson	4500
		"	Shattuc: Clinton	4020
		"	†Waterloo: Monroe	410
		"	Westfield: Clark, Coles	2300
	"	Woburn Consol.: Bond	3170	

*Abandoned.

†Abandoned, revived.

xUndetermined.

Footnotes to Tables 12 and 13, pp. 98-153

- ^a Cam, Cambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; Mis L, Lower Mississippian; Mis U, Upper Mississippian; Pen, Pennsylvanian.
- ^b L, Limestone; LS, sandy limestone; OL, oolitic limestone; D, dolomite; DS, sandy dolomite; S, sandstone.
- ^c A, anticlinal; AC, anticline with accumulation due to change in character of rock; AF, anticline with faulting as an important factor; Af, anticline with faulting as a minor factor; AL, anticline-lens; AM, accumulation due to both anticlinal and monoclinical structures; D, dome; H, strata horizontal or nearly horizontal; MC, monocline with accumulation due to change in character of rock; MF, monocline-fault; ML, monocline-lens; MU, monocline-unconformity; R, reef.
- ^x Not determinable.
- ¹ Wells producing from 2 or more pays.
- ² Abandoned 1945; revived 1950.
- ³ Total of lines 2, 8, 12, 13, 18, 25, 31, and 36.
- ⁴ Includes Allison-Weger, Birds, Chapman, Flat Rock, Hardinsville, Kibbe, New Hebron, Oblong, Parker, Robinson, and Swearingen Gas.
- ⁵ Pool also listed in table 13.
- ⁶ Pool also listed in table 12.
- ⁷ Total of lines 52 and 67.
- ⁸ Total of lines 1, 41, 42, 68, and 69.
- ⁹ Abandoned 1943.
- ¹⁰ Reef structure.
- ¹¹ Abandoned 1925; revived 1942.
- ¹² Anticline with accumulation due to change in character of rock.
- ¹³ Anticline lens.
- ¹⁴ Abandoned 1921.
- ¹⁵ Abandoned 1933; revived 1949.
- ¹⁶ Abandoned 1950.
- ¹⁷ Abandoned 1935.
- ¹⁸ Abandoned 1923.
- ¹⁹ Abandoned 1937.
- ²⁰ Abandoned 1904; revived 1942.
- ²¹ Gas not used until 1905; abandoned 1930.
- ²² Abandoned 1934.
- ²³ Abandoned 1900.
- ²⁴ Abandoned 1919.
- ²⁵ Abandoned 1930; revived 1939; converted in part to gas storage 1951.
- ²⁶ Total of lines 93 to 119, inclusive.
- ²⁷ Total of lines 1-12.
- ²⁸ Has produced in multiple pay or workover wells only.
- ²⁹ Abandoned 1953.
- ³⁰ Abandoned 1953.
- ³¹ Abandoned 1954.
- ³² Abandoned 1954.
- ³³ Abandoned 1946.
- ³⁴ Abandoned 1950.
- ³⁵ Abandoned 1955.
- ³⁶ Abandoned 1954.
- ³⁷ Abandoned 1952.
- ³⁸ Abandoned 1952.
- ³⁹ Abandoned 1953.
- ⁴⁰ Abandoned 1954.
- ⁴¹ Abandoned 1953.
- ⁴² Abandoned 1949; revived 1952.
- ⁴³ Abandoned 1948.
- ⁴⁴ Abandoned 1951; revived 1953.
- ⁴⁵ Abandoned 1952.
- ⁴⁶ Includes Concord North.
- ⁴⁷ Includes Cooks Mills, Cooks Mills North and Cooks Mills Gas.
- ⁴⁸ Abandoned 1951.
- ⁴⁹ Abandoned 1952.
- ⁵⁰ Abandoned 1953.
- ⁵¹ Includes Cantrell Consolidated, Flannigan, Rural Hill West, and West End.
- ⁵² Abandoned 1955.
- ⁵³ Abandoned 1946.
- ⁵⁴ Includes Dubois West.
- ⁵⁵ Abandoned 1951.
- ⁵⁶ Includes Eldorado Central and Eldorado North.
- ⁵⁷ Abandoned 1940.
- ⁵⁸ Abandoned 1943; revived and abandoned 1951; revived 1954.
- ⁵⁹ Abandoned 1952; revived 1953.
- ⁶⁰ Abandoned 1951.
- ⁶¹ Abandoned 1951; revived 1952.
- ⁶² Abandoned 1949; revived 1953.
- ⁶³ Abandoned 1951.
- ⁶⁴ Abandoned 1952; revived 1955.
- ⁶⁵ Abandoned 1952.
- ⁶⁶ Abandoned 1950; revived 1955.
- ⁶⁷ Includes Concord South Consolidated.
- ⁶⁸ Abandoned 1943; revived 1949; abandoned 1952.
- ⁶⁹ Abandoned 1950.
- ⁷⁰ Abandoned 1944.
- ⁷¹ Includes Toliver.
- ⁷² Abandoned 1950.
- ⁷³ Abandoned 1954.
- ⁷⁴ Abandoned 1946; revived 1954.
- ⁷⁵ Abandoned 1945; revived 1950.
- ⁷⁶ Abandoned 1945.
- ⁷⁷ Abandoned 1947.
- ⁷⁸ Abandoned 1946.
- ⁷⁹ Abandoned 1952.
- ⁸⁰ Abandoned 1954.
- ⁸¹ Abandoned 1950.
- ⁸² Abandoned 1941.
- ⁸³ Abandoned 1953.
- ⁸⁴ Abandoned 1947.
- ⁸⁵ Abandoned 1952; revived 1955.
- ⁸⁶ Includes Maunie West.
- ⁸⁷ Abandoned 1950.
- ⁸⁸ Abandoned 1950.
- ⁸⁹ Abandoned 1948; revived 1952; abandoned 1954.
- ⁹⁰ Illinois portion only.
- ⁹¹ Abandoned 1952.
- ⁹² Abandoned 1948.
- ⁹³ Abandoned 1953.
- ⁹⁴ Abandoned 1940; revived 1949.
- ⁹⁵ Abandoned 1949.
- ⁹⁶ Abandoned 1947; revived 1951; abandoned 1954.
- ⁹⁷ Abandoned 1951.
- ⁹⁸ Abandoned 1954.
- ⁹⁹ Abandoned 1946; revived 1955.
- ¹⁰⁰ Abandoned 1942.
- ¹⁰¹ Abandoned 1951; revived 1954.
- ¹⁰² Includes Norris City.
- ¹⁰³ Abandoned 1950.
- ¹⁰⁴ Abandoned 1951.
- ¹⁰⁵ Abandoned 1952; revived 1955.
- ¹⁰⁶ Abandoned 1951; revived 1955.
- ¹⁰⁷ Abandoned 1942; revived 1951; abandoned 1952.
- ¹⁰⁸ Abandoned 1947.
- ¹⁰⁹ Abandoned 1954.
- ¹¹⁰ Abandoned 1950; revived 1955.
- ¹¹¹ Abandoned 1953; revived 1955.
- ¹¹² Abandoned 1955.
- ¹¹³ Abandoned 1940; revived 1947.
- ¹¹⁴ Abandoned 1950.
- ¹¹⁵ Abandoned 1950.
- ¹¹⁶ Abandoned 1947.
- ¹¹⁷ Abandoned 1947; revived 1953; abandoned 1954.
- ¹¹⁸ Includes Flora.

TABLE 12.—OIL PRODUCTION

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1	Warrenton-Borton: Edgar, Coles	1906	0	x	0	32,000
2	Westfield: Clark,	1904	7,000	x	38,000	x
3	Coles		7,000	x	38,000	x
4			0	x	0	x
5			0	x	0	x
6			0	x	0	x
7						
8	Siggins: Cumberland,	1906	934,000	x	8,765,000	x
9	Clark		x	x	x	x
10			x	x	x	x
11			x	x	x	x
12	York: Cumberland, Clark ²	1907	1,000	x	11,000	x
13	Casey: Clark	1906	48,000	x	327,000	x
14			0	x	0	x
15			0	x	0	x
16			48,000	x	327,000	x
17			0	x	0	x
18	Martinsville: Clark	1907	500	x	13,000	x
19			0	x	0	x
20			0	x	0	x
21			0	x	0	x
22			500	x	13,000	x
23			0	x	0	x
24			0	x	0	x
25	Johnson North: Clark	1907	47,000	x	412,000	x
26			0	x	0	x
27			0	x	0	x
28			47,000	x	412,000	x
29			0	x	0	x
30			0	x	0	x
31	Johnson South: Clark	1907	479,000	x	1,273,000	x
32			0	x	0	x
33			0	x	0	x
34			479,000	x	1,273,000	x
35			0	x	0	x
36	Bellair: Crawford, Jasper	1907	159,000	x	1,364,000	x
37			159,000	x	1,364,000	x
38			0	x	0	x
39			0	x	0	x
40			0	x	0	x
41			0	x	0	x
42			0	x	0	x
43	Clark County Division ³		1,675,000	1,886,000	12,203,000	68,602,000
44	Main: Crawford, Lawrence ^{4, 5}	1906	1,610,000	2,599,000	5,392,000	169,660,000
45			0	x	0	x
46			0	x	0	x
47			1,610,000	x	5,392,000	x
48			0	x	0	x
49			0	x	0	x
50			0	x	0	x
51			0	x	0	x
52			0	x	0	x
53			0	x	0	x
54			0	x	0	x
55			0	x	0	x
56	Lawrence: Lawrence, Crawford	1906	2,069,000	x	6,096,000	x
57			0	x	0	x

TION IN ILLINOIS, 1955

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
150	Unnamed: Pen	S	200	20	29	0	0	2	ML	Trenton	2,212
10,000					1,665	2	6	185	D	St. Peter	3,009
9,050	Gas: Pen	S	280	25	208	0	4		D		
9,000	Westfield: MisL	L	335	x	1,450	0	2		D		
50	Carper: MisL	S	875	18	5	2	0		D		
300	Trenton: Ord	L	2,300	40	19	0	0		D		
4,000					3	0	0				
3,200	1st (Upper) Siggins: Pen	S	400	25	888	0	x	474	D	Dev	2,010
500	2nd (Lower) Siggins: Pen	S	480	x	93	0	x		D		
1,000	3rd Siggins: Pen	S	580	40	202	0	x		D		
350	Isobel: Pen	S	590	15	71	0	0	7	AM	Dev	2,622
2,100					442	0	12	293	AM	Dev	1,717
200	Upper Gas: Pen	S	265	x	42	0	0		AM		
400	Lower Gas: Pen	S	310	x	82	0	4		AM		
1,540	Casey: Pen	S	445	10	326	0	8		AM		
20	Carper: MisL	S	1,300	50	2	0	0		AM		
1,500					255	10	3	134		St. Peter	3,411
40	Shallow: Pen	S	255	x	8	1	0		D		
380	Casey: Pen	S	500	x	83	8	2		D		
780	Martinsville: MisL	L	480	x	23	0	1		D		
720	Carper: MisL	S	1,340	40	48	1	0		D		
680	Devonian: Dev	L	1,550	x	43	0	0		D		
20	Trenton: Ord	L	2,700	x	2	0	0		D		
2,400					499	1	0	272	AM	Dev	2,260
1,200	Claypool: Pen	S	415	x	298	0	0		AM		
200	Kickapoo: Pen	S	315	x	33	0	0		AM		
900	Casey: Pen	S	465	x	183	1	0		AM		
250	Upper Partlow: Pen	S	535	x	47	0	0		AM		
20	Carper: MisL	S	1,325	x	2	0	0		AM		
2,200					565	2	45	232	AM	Dev	2,030
200	Claypool: Pen	S	390	x	38	0	x		AM		
300	Casey: Pen	S	450	x	60	0	x		AM		
1,700	Upper Partlow: Pen	S	490	48	426	2	x		AM		
850	Lower Partlow: Pen	S	600	x	175	0	x		AM		
1,540					499	7	3	100	AM	MisL	1,471
x	"500 ft.": Pen	S	560	30	311	1	x		AM		
x	"800 ft.": Pen	S	815	x	71	4	x		AM		
x	"900 ft.": MisU	S	885	x	183	0	0		AM		
20	Renault: MisU	S	830	6	2	2	0		AM		
20	Aux Vases: MisU	S	1,200	x	1	0	0		AM		
20	Ohara: MisL	L	860	4	1	1	0		A		
24,090					5,038	22	78	1,697		St. Peter	3,411
84,200					9,556	117	37	4,563	ML	St. Peter	4,654
x	Cuba: Pen	S	510	x	74	2	0		ML		
10	Unnamed: Pen	S	750	5	1	1	0		ML		
x	Robinson: Pen	S	950	25	9,230	50	34		ML		
x	Pennsylvanian: Pen	S	1,250	x	14	14	0		ML		
x	Cypress: MisU	S	1,480	15	31	5	0		ML		
x	Bethel: MisU	S	1,580	18	56	35	0		ML		
x	Aux Vases: MisU	S	1,530	15	22	8	0		ML		
x	McClosky (Oblong): MisL	L	1,400	x	111	2	3		MC		
x	Salem: MisL	L	1,815	5	12	0	0		MC		
x	Devonian: Dev	L	2,795	11	2	0	0		MC		
38,500					4,835	157	51	2,117	A	St. Peter	5,190
x	Trivoli: Pen	S	290	x	10	0	0		A		

TABLE 12.—

Line No.	Pool: County	Year of dis-covery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
58			0	x	0	x
59			x	x	x	x
60			0	x	0	x
61			0	x	0	x
62			0	x	0	x
63			x	x	x	x
64			x	x	x	x
65			x	x	x	x
66			x	x	x	x
67			x	x	x	x
68			0	x	0	x
69			0	x	0	x
70			0	x	0	x
71			0	x	0	x
72			0	x	0	x
73			0	x	0	x
74			0	x	0	x
75	St. Francisville: Lawrence	x	0	x	0	x
76	Lawrence County Division ⁷		2,069,000	3,479,000	6,096,000	257,811,000
77	Allendale: Wabash, Lawrence	1912	163,000	570,000	211,000	14,892,000
78			0	x	0	x
79			0	x	0	x
80			0	x	0	x
81			132,000	x	173,000	x
82				x		x
83			0	x	0	x
84			0	x	0	x
85			0	x	0	x
86			31,000	x	38,000	x
87			0	x	0	x
88			0	x	0	x
89			0	x	0	x
90			0	x	0	x
91			0	x	0	x
92			0	x	0	x
93	Total Southeastern Fields ⁸		5,517,000	8,534,000	23,902,000	510,997,000
94	Ava-Campbell Hill: Jackson ^{5, 9}	1916	0	0	0	x
95	Bartelso: Clinton	1936	243,000	115,000	468,000	2,465,000
96			243,000	x	468,000	x
97			0	x	0	x
98	Brown, Junction City,	1910	0	6,000	0	x
99	Langewisch-Kuester: Marion		0	x	0	x
100			0	x	0	x
101			0	x	0	x
102	Carlinville: Macoupin ¹¹	1909	0	x	0	x
103	Carlyle: Clinton	1911	0	22,000	0	3,837,000
104			0	x	0	x
105			0	x	0	x
106			0	x	0	x
107	Collinsville: Madison ¹⁴	1909	0	0	0	1,000
108	Colmar-Plymouth: Hancock-McDonough	1914	0	71,000	0	4,013,000
109	Dupo: St. Clair	1928	0	28,000	0	2,810,000
110	Frogtown: Clinton ¹⁵	1918	0	0	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
x	Cuba: Pen	S	450	x	1	0	0		A		
x	Bridgeport: Pen	S	800	40	1,259	4	x		A		
x	Buchanan: Pen	S	1,250	15	509	2	x		A		
x	Tar Springs: MisU	S	1,410	10	1	0	x		A		
x	Hardinsburg: MisU	S	1,570	10	1	0	x		A		
x	Jackson ("gas"): MisU	S	1,370	15	245	0	x		A		
x	Cypress (Kirkwood): MisU	S	1,400	30	3,106	20	x		A		
x	Paint Creek: MisU	S	1,600	8	3	3	0		A		
x	Bethel (Tracey): MisU	S	1,650	20	827	85	x		A		
x	Renault: MisU	S	1,695	7	3	3	0		A		
x	Aux Vases: MisU	S	1,770	8	14	8	x		A		
x	Ohara: MisL	L	1,750	8	3	2	x		A		
x	Rosiclare: MisL	LS	1,860	4	18	3	x		A		
x	McClosky: MisL	L	1,860	10	1,012	5	x		A		
x	St. Louis: MisL	L	1,660	10	1	1	0		A		
x	Salem: MisL	L	1,955	2	1	0	x		A		
600	Bethel: MisU	S	1,845	6	72	2	1	37	ML	MisL	2,164
39,100					4,908	159	52	2,154		St. Peter	5,190
7,650					858	31	20	407	AM	MisL	2,571
x	Pleasantview: Pen	S	650	30	3	0	0		AM		
x	Bridgeport: Pen	S	1,070	12	x	0	x		AM		
x	Buchanan: Pen	S	1,290	15	x	0	x		AM		
x	Biehl: Pen	S	1,450	20	604	15	x		AM		
x	Jordan: Pen	S	1,490	10	5	0	x		AM		
x	Waltersburg: MisU	S	1,540	15	22	1	x		AM		
x	Tar Springs: MisU	S	1,600	20	11	0	x		AM		
x	Hardinsburg: MisU	S	1,780	10	1	0	x		AM		
x	Cypress: MisU	S	1,920	10	16	5	x		AM		
x	Bethel: MisU	S	2,010	10	76	3	x		AM		
x	Aux Vases: MisU	S	2,280	12	3	0	0		AM		
x	Ohara: MisL	L	2,300	10	6	4	x		AM		
x	Rosiclare: MisL	LS	2,300	5	3	0	0		AM		
x	McClosky: MisL	L	2,300	8	14+	1	x		AM		
155,190					20,389	329	187	8,823			
70	Cypress: MisU	S	780	18	15	0	0	0	A	Trenton	3,582
600					78	1	6	43	D	St. Peter	4,212
350	Carlyle (Cypress): MisU	S	985	15	51	0	6		D		
250	Silurian: Sil	L	2,420	12	27	1	0		R ¹⁰		
205					21	0	0	7	M	Dev	3,405
60	Dykstra: Pen	S	510	20	7	0	0		MF		
30	Wilson: Pen	S	845	7	5	0	0		MF		
115	Cypress: MisU	S	1,660	15	9	0	0		N		
80	Unnamed: Pen	S	380	x	8	0	0	3	A	Mis	1,380
940					185	5	2	37	A	St. Peter	2,177
30	Golconda: MisU	L	900	10	5	3	0		AC ¹²		
940	Carlyle (Cypress): MisU	S	1,035	20	179	2	2		AL ¹³		
40					1	0	0				
2,500	Silurian: Sil	L	1,305	20	6	0	0	0	ML	St. Peter	2,177
	Hoing: Dev	S	450	21	496	2	1	200	AL	Ord	805
1,000	Trenton: Ord	L	700	50	320	0	0	30	A	Ord	1,800
300	Carlyle (Cypress): MisU	S	950	7	14	0	0	0	ML	Trenton	3,290

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
111	Gillespie-Wyen: Macoupin	1915	0	x	0	x
112	Jacksonville (gas): Morgan ^{5, 19}	1910	0	0	0	2,000
113	Litchfield: Montgomery ²⁰	1879	0	x	0	24,000
114	Sandoval: Marion	1909	0	35,000	0	5,736,000
115			0	0	0	2,705,000
116			0	35,000	0	3,031,000
117	Sparta: Randolph ^{5, 23}	1888	0	0	0	x
118	Wamac: Marion, Clinton Washington	1921	3,000	10,000	3,000	597,000
119	Waterloo: Monroe ²⁵	1920	0	x	0	237,000
120	Total of fields discovered prior to January 1, 1937 ²⁶		5,763,000	9,115,000	24,373,000	531,275,000
121	Ab Lake: Gallatin	1947	0	4,000	0	23,000
122			0	4,000	0	5,000
123			0	0	0	x
124			0	0	0	x
125	Ab Lake West: Gallatin	1950	0	9,000	0	22,000
126			0	x	0	x
127			0	x	0	x
128			0	x	0	x
129			0	500	0	2,500
130						
131	Aden Consolidated: Wayne,	1938	299,000	469,000	859,000	7,598,000
132	Hamilton		189,000	x	532,000	x
133			0	x	0	x
134			0	x	0	x
135			110,000	x	327,000	x
136			0	x	0	x
137						
138	Aden South: Hamilton	1945	0	53,000	0	451,000
139			0	x	0	x
140			0	x	0	x
141			0	x	0	x
142			0	x	0	x
143						
144	Akin: Franklin	1942	0	26,000	0	674,000
145			0	x	0	x
146			0	x	0	x
147			0	x	0	x
148						
149	Akin West: Franklin	1948	0	5,000	0	72,000
150			0	x	0	x
151			0	x	0	x
152			0	x	0	x
153			0	x	0	x
154						
155	Albion Central: Edwards	1955	0	29,000	0	29,000
156	Albion Consolidated: Edwards,	1940	283,000	1,204,000	1,593,000	15,201,000
157	White ⁵		0	x	0	x
158			4,000	x	238,000	x
159			x	x	x	x
160			0	x	0	x
161			x	x	x	x
162			9,000	x	24,000	x
163			0	x	0	x
164			85,000	x	214,000	x
165			0	x	0	x

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
45	Unnamed: Pen	S	650	x	23	0	2	4	T	Ord	1,390
60	Gas: Pen, MisL	LS	330	5	8	0	0	0	ML	Ord	1,390
100	Unnamed: Pen	S	660	x	18	0	0	0	D	St. Peter	3,000
480					151	0	0	16	D	St. Peter	5,023
460	Benoist: MisU	S	1,540	20	123	0	0	0	D		
390	Geneva: Dev	D	2,920	9	28	0	0	0	R		
20	Cypress: MisU	S	850	7	2	0	0	0	D	Trenton	3,130
250	Petro: Pen	S	720	20	108	0	0	10	DF	MisL	1,760
230	Trenton: Ord	L	410	50	41	0	0	3	A	Pre-Cam	2,768
162,110					21,883	337	198	9,176			
50					3	0	0	1	M	MisL	2,941
10	Palestine: MisU	S	1,835	5	1	0	0	0	MF		
40	Renault: MisU	L	2,735	8	2	0	0	0	MF		
40	Aux Vases: MisU ²⁸	S	2,770	9	0	0	0	0	MF		
110					7	0	1	5	M	MisL	2,964
10	Pennsylvanian: Pen	S	725	10	1	0	1	0	ML		
10	Cypress: MisU ²⁸	S	2,425	9	0	0	0	0	ML		
80	Aux Vases: MisU	S	2,735	6	4	0	0	0	ML		
20	McClosky: MisL	L	2,830	2	1	0	0	0	MC		
2,360					98	1	0	78	A	Dev	5,395
1,240	Aux Vases: MisU	S	3,200	10	10	0	0	0	A		
140	Ohara: MisL ²⁸	L	3,290	7	0	0	0	0	A		
100	Rosiclare: MisL	LS	3,320	5	2	0	0	0	AC		
2,340	McClosky: MisL	L	3,350	4	74	0	0	0	A		
80	Salem: MisL ²⁸	L	3,735	16	0	0	0	0	AC		
380					12	1	0	0			
100	Aux Vases: MisU	S	3,245	8	20	1	0	18	A	MisL	3,466
20	Ohara: MisL ²⁸	L	3,310	7	0	0	0	0	AL		
160	Rosiclare: MisL	LS	3,330	8	1	0	0	0	AC		
320	McClosky: MisL	L	3,395	9	8	0	0	0	AC		
280					9	1	0	0			
180	Cypress: MisU	S	2,840	10	17	2	0	16	A	MisL	3,515
120	Aux Vases: MisU	S	3,100	9	11	0	0	0	AL		
20	McClosky: MisL ²⁸	L	3,270	9	0	0	0	0	AL		
100					1	0	0	0	AC		
20	Cypress: MisU	S	2,715	8	6	0	0	6	A	MisL	3,435
20	Ohara: MisL ²⁸	L	3,050	10	2	0	0	0	AL		
20	Rosiclare: MisL ²⁸	L	3,080	12	0	0	0	0	AC		
60	McClosky: MisL	L	3,130	4	3	0	0	0	AC		
120					1	0	0	0			
5,420	Ohara: MisL	L	3,370	5	3	3	0	3	X	MisL	3,479
60	Mansfield: Pen	S	1,650	5	419	22	1	363	AM	Dev	5,185
300	Bridgeport: Pen	S	1,900	15	4	0	0	0	MF		
1,500	Biehl: Pen	S	2,000	15	19	0	0	0	MF		
20	Degonia: MisU	S	2,125	9	100	4	0	0	MF		
630	Waltersburg: MisU	S	2,365	16	1	0	0	0	MF		
90	Tar Springs: MisU	S	2,460	5	37	0	0	0	AL		
60	Hardinsburg: MisU	S	2,635	10	5	4	0	0	AL		
360	Cypress: MisU	S	2,860	15	3	0	0	0	A		
410	Bethel: MisU	S	2,960	14	30	1	0	0	A		
					26	3	0	0	Af		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
166			0	x	0	x
167			0	x	0	x
168			0	x	0	x
169			0	x	0	x
170			3,000	x	34,000	x
171						
172	Albion East: Edwards	1943	0	33,000	0	950,000
173			0	x	0	x
174			0	x	0	x
175			0	x	0	x
176			0	x	0	x
177			0	x	0	x
178			0	x	0	x
179			0	x	0	x
180			0	x	0	x
181						
182	Albion West: Edwards ²⁹	1953	0	0	0	1,000
183	Alma: Marion	1941	0	2,000	0	78,000
184			0	0	0	x
185			0	2,000	0	x
186			0	0	0	x
187	Amity: Richland	1942	0	1,000	0	25,000
188	Amity South: Richland ³⁰	1953	0	0	0	100
189	Amity West: Richland ³¹	1953	0	0	0	0
190	Ashley: Washington	1953	0	23,000	0	30,000
191	Assumption Consolidated:	1948	163,000	455,000	751,000	5,042,000
192	Christian		157,000	x	745,000	x
193			6,000	x	6,000	x
194			0	x	0	x
195	Assumption South: Christian	1951	0	1,000	0	8,000
196	Baldwin: Randolph	1954	0	3,000	0	3,000
197	Barnhill: Wayne	1939	209,000	386,000	735,000	3,704,000
198			0	x	0	x
199			0	x	0	x
200			0	x	0	x
201			209,000	x	735,000	x
202			0	x	0	x
203						
204	Bartelso East: Clinton	1950	0	199,000	0	351,000
205	Bartelso South: Clinton	1942	0	1,000	0	23,000
206	Bartelso West: Clinton	1945	0	2,000	0	15,000
207	Beaucoup: Washington	1951	0	21,000	0	282,000
208			0	x	0	x
209			0	x	0	x
210						
211	Beaucoup South: Washington	1951	0	80,000	0	336,000
212	Beaver Creek: Bond, Clinton	1942	0	10,000	0	174,000
213	Beaver Creek North: Bond ³²	1949	0	0	0	1,000
214	Beaver Creek South: Clinton,	1946	0	35,000	0	284,000
215	Bond ⁵		0	0	0	0
216			0	35,000	0	284,000
217	Belle Prairie: Hamilton	1940	0	18,000	0	582,000
218			0	x	0	x
219			0	x	0	x
220						
221	Belle Rive: Jefferson	1943	0	11,000	0	306,000
222	Bellmont: Wabash	1951	0	5,000	0	61,000
223			0	2,000	0	9,000

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
100	Renault: MisU	L	3,000	13	1	0	0		Af		
900	Aux Vases: MisU	S	3,045	18	65	10	1		Af		
160	Ohara: MisL	L	3,110	5	7	1	0		AC		
40	Rosiclare: MisL	L	3,130	10	2	0	0		AC		
1,600	McClosky: MisL	L	3,200	12	82	0	0		AC		
590					39	3	0				
120	Cypress: MisU	S	2,800	7	36	1	2	23	A	MisL	3,254
10	Paint Creek: MisU ²⁸	S	2,910	6	0	0	0		A		
20	Bethel: MisU	S	2,920	6	1	0	0		AL		
40	Renault: MisU	LS	2,925	10	3	1	0		AC		
100	Aux Vases: MisU	S	3,020	17	6	0	1		AL		
140	Ohara: MisL	L	3,100	7	6	0	0		A		
60	Rosiclare: MisL	L	3,125	7	2	0	0		A		
180	McClosky: MisL	L	3,155	7	6	0	0		A		
20	McClosky: MisL	L	3,375	5	5	0	0		X	MisL	3,520
60					5	0	1	1	A	Dev	3,692
10	Cypress: MisU ²⁸	S	1,805	7	0	0	0		AL		
50	Bethel: MisU	S	1,945	8	3	0	1		AL		
40	Rosiclare: MisL	L	2,085	10	2	0	0		AC		
160	McClosky: MisL	OL	2,960	5	4	0	0	1	MC	MisL	3,089
20	Rosiclare: MisL	L	2,890	4	1	0	0	0	X	MisL	3,010
10	Aux Vases: MisU	S	2,925	12	1	0	0	0	X	MisL	3,100
80	Bethel: MisU	S	1,430	7	8	6	0	8	X	Dev	3,116
2,870					171	0	5	153	A	Ord	3,070
430	Bethel: MisU	S	1,050	13	43	0	1		A		
320	Rosiclare: MisL	S	1,170	4	16	0	0		AL		
2,840	Cedar Valley: Dev	L	2,300	8	112	0	4		A		
60	Cedar Valley: Dev	L	2,630	15	3	0	1	1	X	Dev	2,740
60	Silurian: Sil	L	1,535	x	2	1	0	2	R	Trenton	2,234
1,600					120	2	2	72	A	MisL	3,878
520	Aux Vases: MisU	S	3,325	15	36	2	1		AL		
120	Ohara: MisL	OL	3,370	6	2	0	0		AC		
160	Rosiclare: MisL	LS	3,400	9	3	0	0		AC		
1,100	McClosky: MisL	OL	3,450	15	68	0	1		AC		
40	Salem: MisL	L	3,795	8	1	0	0		AC		
320	Silurian: Sil	L	2,550	7	16	6	0	16	D	Sil	2,788
100	Devonian: Dev	L	2,475	3	3	0	0	1	A	Dev	2,652
140	Cypress: MisU	S	960	15	12	0	0	5	A	Dev	2,520
280					14	0	0	14	A	Trenton	4,192
280	Clear Creek: Dev	L	3,050	12	13	0	0		A		
20	Trenton: Ord ²⁸	L	4,095	5	0	0	0		A		
230	Bethel: MisU	S	1,430	9	1	0	0	20	AL	Dev	3,122
160	Bethel: MisU	S	1,130	6	16	0	0	13	A	Dev	2,526
40	Bethel: MisU	S	1,115	4	4	0	0	0	A	Dev	2,556
420					42	4	0	27	A	Dev	2,539
10	Cypress: MisU	S	1,005	20	1	1	0		A		
410	Bethel: MisU	S	1,140	5	41	3	0		A		
230					12	1	1	9	A	MisL	3,580
20	Aux Vases: MisU	S	3,250	8	1	1	0		AL		
220	McClosky: MisL	L	3,420	6	10	0	1		AC		
200	McClosky: MisL	L	3,085	6	1	0	0	3	AC	MisL	3,201
70					4	0	0	3	M	MisL	3,006
10	Bethel: MisU	S	2,650	7	1	0	0		ML		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)					
			During 1955		To End of 1955			
			Secondary recovery	Total	Secondary recovery	Total		
224	Beman: Lawrence	1942	0	3,000	0	52,000		
225			0	7,000	0	234,000		
226			0	x	0	x		
227			0	x	0	x		
228								
229	Beman East: Lawrence	1947	0	3,000	0	102,000		
230			0	x	0	x		
231			0	x	0	x		
232								
233	Bennington South: Edwards ³³	1944	0	0	0	10,000		
234	Benton: Franklin	1941	1,088,000	1,441,000	8,716,000	31,659,000		
235			0	0	0	x		
236			1,088,000	1,441,000	8,716,000	31,659,000		
237	Benton North: Franklin	1941	0	102,000	0	1,712,000		
238			0	x	0	x		
239			0	x	0	x		
240			0	x	0	x		
241			0	x	0	x		
242			0	x	0	x		
243			0	x	0	x		
244			0	x	0	x		
245								
246			Berryville Consolidated: Wabash, Edwards	1943	0	17,000	0	907,000
247	0	x			0	x		
248	0	x			0	x		
249	0	x			0	x		
250								
251	Bessie: Franklin	1943	0	5,000	0	72,000		
252	Bible Grove North: Effingham	1947	0	3,000	0	75,000		
253			0	2,000	0	x		
254			0	0	0	x		
255			0	1,000	0	x		
256								
257			Bible Grove South: Clay	1942	0	5,000	0	98,000
258	0	1,000			0	5,000		
259	0	4,000			0	93,000		
260	0	97,000			0	178,000		
261	Blackland: Macon, Christian	1953	0	2,000	0	10,000		
262	Black River: White	1952	0	9,000	0	310,000		
263	Blairsville West: Hamilton	1951	0	x	0	x		
264			0	x	0	x		
265								
266	Bogota: Jasper	1943	0	8,000	0	458,000		
267			0	x	0	x		
268			0	x	0	x		
269			0	0	0	0		
270	Bogota North: Jasper ³⁴	1949	0	24,000	0	399,000		
271	Bogota South: Jasper	1944	0	72,000	0	1,787,000		
272	Bone Gap Consolidated: Edwards	1941	0	0	0	2,000		
273			0	x	0	x		
274			0	4,000	0	240,000		
275			0	x	0	x		
276			0	0	0	10,000		
277			0	x	0	x		
278			0	x	0	x		
279			0	x	0	x		
280								
281			Bone Gap East: Edwards	1951	0	1,000	0	12,000

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
60	Ohara: MisL	L	2,840	7	3	0	0		MC		
500					23	1	2	13	A	MisL	2,000
40	Aux Vases: MisU	S	1,805	20	2	1	1		AL		
480	Ste. Genevieve: MisL ₁	L	1,850	7	19	0	1		AC		
100					2	0	0	3	A	MisL	1,907
20	Aux Vases: MisU	S	1,805	20	1	0	0		AL		
90	Ste. Genevieve: MisL ₁	L	1,860	7	3	0	0		AC		
20	McClosky: MisL	L	3,240	8	1	0	0	0	MC	MisL	3,420
2,400					243	0	0	132	A	MisL	3,205
20	Pennsylvanian: Pen ²⁸	S	1,700	9	0	0	0		AL		
2,400	Tar Springs: MisU	S	2,100	10	243	0	0		A		
720					56	3	0	49	A	MisL	2,906
130	Cypress: MisU	S	2,460	17	12	1	0		A		
140	Paint Creek: MisU	S	2,595	9	7	0	0		A		
30	Bethel: MisU	S	2,600	20	3	0	0		AL		
100	Aux Vases: MisU	S	2,685	10	3	0	0		A		
200	Ohara: MisL	L	2,730	8	5	1	0		A		
140	Rosiclare: MisL	S	2,775	6	4	1	0		A		
360	McClosky: MisL ₁	L	2,800	10	9	0	0		A		
520					13	0	0				
100	Ohara: MisL	L	2,900	6	4	0	0	6	M	MisL	3,125
20	Rosiclare: MisL	L	2,850	12	1	0	0		MC		
420	McClosky: MisL ₁	L	2,890	10	12	0	0		MC		
40	Ohara: MisL	L	2,895	10	1	0	0	1	MC	MisL	3,457
130					7	0	1	3	M	MisL	2,999
50	Cypress: MisU	S	2,535	7	3	0	1		M		
40	Rosiclare: MisL	LS	2,835	5	1	0	0		ML		
60	McClosky: MisL ₁	L	2,875	5	2	0	0		M		
50					1	0	0				
10	Cypress: MisU	S	2,500	10	3	0	1	2	M	MisL	2,953
40	Aux Vases: MisU	S	2,740	10	1	0	0		ML		
470	Silurian: Sil	L	1,935	12	15	1	3	12	MU	Ord	3,780
10	Clore: MisU	S	1,865	6	1	0	0	1	x	MisL	3,071
200					10	0	0	6	A	MisL	3,507
20	Rosiclare: MisL ²⁸	L	3,345	6	0	0	0		AC		
200	McClosky: MisL ₁	L	3,405	8	9	0	0		AC		
260					1	0	0				
20	Rosiclare: MisL	L	3,090	4	8	0	0	7	A	MisL	3,234
240	McClosky: MisL	L	3,110	7	1	0	0		AC		
10	McClosky: MisL	L	3,080	3	7	0	0		A		
480	McClosky: MisL	L	3,075	8	1	0	0	0	x	MisL	3,150
1,200					23	0	0	17	MC	MisL	3,182
10					57	1	4	31	A	MisL	3,350
150	Pennsylvanian: Pen	S	2,110	8	1	0	0		AL		
70	Waltersburg: MisU	S	2,310	20	15	0	0		A		
20	Cypress: MisU	S	2,710	10	7	0	2		A		
10	Bethel: MisU	S	2,880	14	2	0	0		AL		
80	Aux Vases: MisU	S	3,020	9	1	0	0		AL		
80	Ohara: MisL	L	3,040	5	2	0	0		AC		
80	Rosiclare: MisL	L	3,045	5	3	1	0		AC		
800	McClosky: MisL ₁	L	3,200	6	24	0	2		AC		
40					2	0	0				
					2	0	0	1	M	MisL	3,156

ILLINOIS STATE GEOLOGICAL SURVEY

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)				
			During 1955		To End of 1955		
			Secondary recovery	Total	Secondary recovery	Total	
282			0				
283			0	1,000	0	12,000	
284	Bone Gap West: Edwards ³⁵	1954	0	0	0	0	
285	Boulder: Clinton	1941	0	1,000	0	2,000	
286			0	444,000	0	5,640,000	
287			0	x	0	x	
288	Boulder East: Clinton	1955	0	x	0	x	
289	Boyd: Jefferson	1944	0	3,000	0	3,000	
290			114,000	689,000	114,000	10,431,000	
291			x	x	x	x	
292			x	x	x	x	
293			0	x	0	x	
294	Broughton: Hamilton ³⁶	1951	0	0	0	6,000	
295	Broughton South: Saline ³⁷	1951	0	0	0	0	
296	Browns: Edwards, Wabash	1943	0	54,000	0	1,507,000	
297			0	x	0	x	
298			0	x	0	x	
299			0	x	0	x	
300			0	x	0	x	
301			0	x	0	x	
302			0	x	0	x	
303			0	x	0	x	
304			0	x	0	x	
305	Browns East: Wabash	1946	105,000				
306	Browns South: Edwards	1943	0	105,000	1,391,000	2,213,000	
307			0	2,000	0	15,000	
308			0	x	0	x	
309			0	x	0	x	
310	Bungay Consolidated: Hamilton	1941	171,000				
311			0	802,000	271,000	8,687,000	
312			171,000	x	0	x	
313			0	x	271,000	x	
314			0	x	0	x	
315			0	x	0	x	
316			0	x	0	x	
317	Burnt Prairie South: White	1947	0	2,000	0	13,000	
318			0	0	0	0	
319			0	1,000	0	10,000	
320			0	1,000	0	3,000	
321	Calhoun Central: Richland ³⁸	1950	0	0	0	500	
322			0	0	0	x	
323			0	0	0	x	
324	Calhoun Consolidated: Richland, Wayne	1944	59,000	0	0	3,224,000	
325			0	126,000	271,000	x	
326			0	x	0	x	
327			0	x	0	x	
328			59,000	x	271,000	x	
329	Calhoun East: Richland	1950	0				
330	Calhoun North: Richland	1944	0	6,000	0	201,000	
331			0	3,000	0	54,000	
332			0	x	0	x	
333			0	x	0	x	
334	Calhoun South: Wayne ³⁹	1953	0	0	0	1,000	
335	Cantrell North: Hamilton	1951	0	19,000	0	300,000	
336	Carlinville North: Macoupin ^{5, 40}	1941	0	0	0	1,000	
337	Carlyle North: Clinton	1950	0	0	0	396,000	
338	Carlyle South: Clinton ⁴¹	1951	0	50,000	0	2,000	
339	Carmi: White ⁴²	1939	0	0	0	38,000	
			0	7,000	0		

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
20	Ohara: MisL	L	2,980	10	1	0	0		MC		
20	McClosky: MisL	L	3,050	5	1	0	0		MC		
20	Ohara: MisL	L	3,290	5	1	0	1	0	x	MisL	3,388
720					46	2	0	36	D	Trenton	3,813
520	Bethel: MisU	S	1,190	20	26	1	0		D		
540	Geneva: Dev	D	2,630	7	20	1	0		R		
20	Devonian: Dev	L	2,850	5	1	1	0	1	x	Dev	2,946
1,430					115	0	0	110	A	Dev	3,870
1,430	Bethel: MisU	S	2,060	19	73	0	0		A		
680	Aux Vases: MisU	S	2,130	15	6	0	0		A		
40	Ohara: MisL ²³	L	2,230	2	0	0	0		AC		
					36	0	0				
20	McClosky: MisL	L	3,275	5	1	0	0	0	x	MisL	3,355
20	McClosky: MisL	L	3,215	4	1	0	0	0	x	MisL	3,300
910					49	1	0	38	A	MisL	3,147
10	Tar Springs: MisU ²³	S	2,365	14	0	0	0		AL		
270	Cypress: MisU	S	2,640	13	9	1	0		A		
50	Bethel: MisU	S	2,785	12	1	0	0		AL		
10	Aux Vases: MisU	S	2,965	7	1	0	0		AL		
40	Ohara: MisL	L	2,965	4	2	0	0		AC		
20	Rosiclare: MisL ²³	L	2,975	3	0	0	0		AC		
600	McClosky: MisL	L	3,000	6	27	0	0		A		
					9	0	0				
540	Cypress: MisU	S	2,570	13	52	2	0	39	ML	MisL	3,113
30					3	0	0	2	N	MisL	3,095
20	Bethel: MisL	S	2,850	15	1	0	0		NL		
20	Aux Vases: MisU	S	2,950	8	1	0	0		NL		
					1	0	0				
3,060					195	14	1	160	A	MisL	3,565
100	Renault: MisU	S	3,270	10	7	0	0		AL		
2,800	Aux Vases: MisU	S	3,295	15	168	14	1		AL		
80	Ohara: MisL	L	3,335	8	2	0	0		AC		
80	Rosiclare: MisL	L	3,400	8	2	0	0		AC		
260	McClosky: MisL	L	3,425	8	10	0	0		AC		
					6	0	0				
50					3	1	0	3	x	MisL	3,565
10	Aux Vases: MisU	S	3,330	24	1	1	0		x		
20	Ohara: MisL	L	3,415	6	1	0	0		x		
20	McClosky: MisL	L	3,460	4	1	0	0		x		
40					2	0	0	0	M	MisL	3,335
20	Rosiclare: MisL	L	3,245	6	1	0	0		MC		
20	McClosky: MisL	L	3,280	3	1	0	0		MC		
2,400					100	0	3	66	A	MisL	3,900
x	Ohara: MisL	OL	3,140	9	19	0	0		A		
x	Rosiclare: MisL	OL	3,160	6	11	0	0		A		
x	McClosky: MisL	OL	3,180	10	56	0	2		A		
					14	0	1				
160	McClosky: MisL	L	3,265	5	5	0	0	5	MC	MisL	3,380
40					2	0	0	1	A	MisL	3,280
20	Rosiclare: MisL ²³	LS	3,155	10	0	0	0		A		
40	McClosky: MisL	OL	3,170	11	1	0	0		A		
					1	0	0				
10	Aux Vases: MisU	S	3,175	5	1	0	0	0	x	MisL	3,350
100	Aux Vases: MisU	S	3,270	10	9	0	0	9	AL	MisL	3,521
120	Pottsville: Pen	S	440	10	6	0	0	0	x	Trenton	1,970
460	Bethel: MisU	S	1,150	6	40	0	1	34	AL	Dev	2,558
20	Cypress: MisU	S	1,075	4	2	0	0	0	x	MisU	1,194
100					8	0	1	3	M	MisL	3,340

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
340			0	500	0	1,000
341			0	6,500	0	32,000
342			0	0	0	x
343			0	0	0	x
344	Carmi North: White	1942	0	17,000	0	194,000
345			0	x	0	x
346			0	x	0	x
347			0	x	0	x
348						
349	Centerville: White	1940	0	19,000	0	449,000
350			0	0	0	x
351			0	x	0	x
352			0	x	0	x
353			0	x	0	x
354						
355	Centerville East: White	1941	7,000	355,000	40,000	4,135,000
356			0	x	0	x
357			4,000	x	36,000	x
358			0	x	0	x
359			0	x	0	x
360			0	x	0	x
361			0	x	0	x
362			0	x	0	x
363			0	x	0	x
364			3,000	x	4,000	x
365			0	x	0	x
366						
367	Centerville North: White ⁴³	1947	0	0	0	0
368	Centerville Northeast: White	1955	0	1,000	0	1,000
369	Centralia: Clinton, Marion	1937	0	565,000	48,000	38,878,000
370			0	x	0	x
371			0	x	0	x
372			0	x	0	x
373			0	x	48,000	x
374						
375	Centralia West: Clinton	1940	0	3,000	0	383,000
376	Christopher Consolidated:	1951	0	100,000	0	184,000
377	Franklin ⁴⁴		0	x	0	x
378			0	0	0	0
379			0	x	0	x
380						
381	Clarksburg: Shelby	1946	0	2,000	0	19,000
382	Clay City Consolidated: Clay,	1937	611,000	10,171,000	846,000	179,275,000
383	Wayne, Richland, Jasper		0	x	0	x
384			0	x	0	x
385			0	x	0	x
386			0	x	0	x
387			58,000	x	58,000	x
388			0	x	0	x
389			37,000	x	105,000	x
390			516,000	x	683,000	x
391			0	x	0	x
392			0	x	0	x
393			0	x	0	x
394			0	0	0	x
395						
396	Clay City West: Clay	1941	0	58,000	0	1,622,000

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
10	Pennsylvanian: Pen	S	1,210	10	1	0	0		ML		
40	Cypress: MisU	S	2,800	15	4	0	1		ML		
10	Aux Vases: MisU	S	3,145	8	1	0	0		ML		
40	McClosky: MisL	OL	3,150	6	2	0	0		MC		
110					6	0	0		A	MisL	3,352
20	Cypress: MisU	S	2,940	13	1	0	0		Af		
10	Paint Creek: MisU ²⁸	S	3,080	12	0	0	0		Af		
100	Aux Vases: MisU ₁	S	3,270	14	4	0	0		Af		
200					1	0	0				
10	Aux Vases: MisU ²⁸	S	3,240	6	0	0	2	6	N	MisL	3,919
100	Ohara: MisL	L	3,310	10	4	0	2		NL		
20	Rosiclare: MisL ²⁸	L	x	x	0	0	0		NC		
120	McClosky: MisL ₁	OL	3,370	4	5	0	0		NC		
1,350					1	0	0				
20	Palestine: MisU	S	2,225	3	120	1	1	106	A	MisL	3,427
400	Tar Springs: MisU	S	2,500	24	2	0	0		ALf		
10	Hardinsburg: MisU	S	2,615	22	1	0	0		ALf		
390	Cypress: MisU	S	2,915	6	29	1	1		ALf		
20	Paint Creek: MisU ²⁸	S	2,980	40	0	0	0		ALf		
180	Bethel: MisU	S	2,990	20	9	0	0		ALf		
340	Aux Vases: MisU	S	3,075	21	26	0	0		ALf		
40	Ohara: MisL	OL	3,175	5	1	0	0		ACf		
20	Rosiclare: MisL ²⁸	LS	3,185	6	0	0	0		ACf		
240	McClosky: MisL ₁	OL	3,230	7	10	1	0		ACf		
10	Bethel: MisU	S	2,990	13	1	0	0	0	ML	MisL	3,290
10	Bethel: MisU	S	3,055	14	1	1	0	1	x	MisL	3,407
3,360					995	0	11	433	A	Ord	4,170
500	Cypress: MisU	S	1,200	12	50	0	0		A		
1,400	Bethel: MisU	S	1,355	20	566	0	0		A		
2,500	Devonian: Dev	L	2,870	9	319	0	11		A		
1,400	Trenton: Ord	L	3,930	22	59	0	0		A		
90	Bethel: MisU	S	1,440	9	1	0	0				
270					9	0	0	2	N	Dev	3,021
250	Aux Vases: MisU	S	2,605	15	16	2	0	15	A		4,600
20	Ohara: MisL	L	2,675	8	2	0	0		A		
20	Clear Creek: Dev ²⁸	L	4,430	x	1	0	0		A		
20	Bethel: MisU	S	1,770	6	1	0	0	1	A	MisL	2,454
81,000					2	0	0			St. Peter	7,205
10	Waltersburg: MisU	S	2,175	6	4,115	340	31	3,105	A		
160	Tar Springs: MisU	S	2,560	15	1	0	0		AL		
5,650	Cypress: MisU	S	2,635	15	8	0	x		AL		
90	Bethel: MisU	S	2,800	15	401	13	x		AL		
13,500	Aux Vases: MisU	S	2,940	15	2	0	x		AL		
x	Ohara: MisL	OL	3,020	5	1,158	166	x		AL		
x	Rosiclare: MisL	LS	3,030	8	108	1	x		AC		
x	McClosky: MisL	OL	3,050	10	263	45	x		AC		
180	St. Louis: MisL	L	3,025	3	1,977	34	x		AC		
1,200	Salem: MisL	L	3,590	10	7	6	x		A		
10	Warsaw: MisL ²⁸	L	3,600	17	55	51	x		A		
20	Devonian: Dev ²⁸	L	4,350	10	0	0	0		A		
560					0	0	0				
					235	24	x				
					22	0	1	16	A	Dev	4,974

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
397			0	0	0	20,000
398			0	x	0	x
399			0	x	0	x
400	Coil: Wayne	1942	0	35,000	0	1,362,000
401			0	35,000	0	1,361,000
402			0	0	0	1,000
403	Coil West: Jefferson	1942	0	17,000	0	568,000
404			0	x	0	x
405			0	x	0	x
406			0	x	0	x
407			0	x	0	x
408						
409	Concord Consolidated: White ⁴⁶	1942	37,000	202,000	109,000	4,230,000
410			0	x	0	x
411			0	11,000	0	20,000
412			0	x	0	x
413			16,000	x	26,000	x
414			0	x	0	x
415			21,000	x	109,000	x
416				x		x
417						
418	Concord East Consolidated: White	1942	0	47,000	0	216,000
419			0	x	0	x
420			0	x	0	x
421			0	x	0	x
422			0	x	0	x
423			0	x	0	x
424			0	x	0	x
425			0	x	0	x
426						
427	Cooks Mills Consolidated: Coles ⁴⁷	1941	0	65,000	0	76,000
428			0	x	0	x
429			0	x	0	x
430			0	x	0	x
431	Cooks Mills East: Coles	1954	0	15,000	0	15,000
432			0	x	0	x
433			0	x	0	x
434						
435	Cordes: Washington	1939	187,000	329,000	1,984,000	7,027,000
436	Cottage Grove: Saline	1955	0	3,000	0	3,000
437	Covington South: Wayne	1943	0	2,000	0	168,000
438	Craig: Perry ⁴⁸	1948	0	0	0	2,000
439	Cravat: Jefferson	1939	0	6,000	0	326,000
440	Crossville: White ⁴⁹	1946	0	0	0	16,000
441			0	0	0	x
442			0	0	0	x
443			0	0	0	x
444	Crossville West: White ⁵⁰	1952	0	0	0	1,500
445	Dahlgren: Hamilton	1941	0	5,000	0	1,174,000
446	Dale Consolidated: Hamilton, Saline, Franklin ⁵¹	1940	128,000	2,996,000	437,000	54,957,000
447			0	x	0	x
448			0	x	0	x
449			0	x	0	x
450			0	x	0	x
451			0	x	0	x
452			128,000	x	437,000	x
453			0	x	0	x
454			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
10	Cypress: MisU	S	2,700	10	1	0	0		AL		
80	Aux Vases: MisU	S	2,950	7	1	0	0		AL		
540	McClosky: MisL	OL	3,065	15	20	0	1		AL	MisL	3,250
480					17	0	0	12	A		
460	Aux Vases: MisU	S	2,700	10	16	0	0		A		
20	McClosky: MisL	OL	3,065	15	1	0	0		AC		
300					16	0	0	8	A	MisL	3,022
100	Aux Vases: MisU	S	2,720	15	4	0	0		AL		
100	Ohara: MisL	L	2,790	7	1	0	0		AC		
x	Rosiclare: MisL ²⁸	L	2,805	x	0	0	0		AC		
200	McClosky: MisL	L	2,880	8	6	0	0		AC		
					5	0	0				
1,560					121	7	0	107	A	MisL	3,138
220	Tar Springs: MisU	S	2,270	11	20	0	0		AL		
10	Hardinsburg: MisU	S	2,485	7	1	0	0		A		
230	Cypress: MisU	S	2,625	10	15	5	0		AL		
450	Aux Vases: MisU	S	2,905	14	24	0	0		AL		
40	Ohara: MisL	L	2,930	8	2	1	0		AC		
40	Rosiclare: MisL	L	3,035	8	1	0	0		AC		
1,120	McClosky: MisL	L	2,990	10	44	0	0		AC		
					14	1	0				
220					19	10	2	14	A	MisL	3,125
30	Waltersburg: MisU	S	2,140	10	3	0	0		A		
30	Tar Springs: MisU	S	2,175	4	3	1	0		A		
70	Cypress: MisU	S	2,540	6	5	5	0		A		
50	Aux Vases: MisU	S	2,825	12	2	1	0		A		
40	Ohara: MisL	L	2,895	6	2	0	0		AC		
60	Rosiclare: MisL ²⁸	S	2,895	5	0	0	0		AC		
30	McClosky: MisL	L	2,965	2	1	0	1		AC		
					3	3	1				
260					17	12	1	13	A	Dev	2,888
10	Aux Vases: MisU	S	1,765	15	1	0	1		A		
230	Rosiclare: MisL	S	1,820	6	15	11	0		A		
20	McClosky: MisL	L	1,840	4	1	1	0		A		
120					8	7	0	8	A	Dev	3,065
10	Aux Vases: MisU ²⁸	S	1,740	7	0	0	0		A		
120	Rosiclare: MisL	S	1,800	10	7	6	0		A		
					1	1	0				
1,200	Bethel: MisU	S	1,260	14	142	0	3	86	A	Dev	2,887
20	Ohara: MisL	L	2,770	x	1	1	0	1	x	MisL	2,977
320	McClosky: MisL	L	3,310	5	8	0	0	2	AC	MisL	3,397
20	Trenton: Ord	L	3,650	20	1	0	0	0	A	Ord	3,735
120	Bethel: MisU	S	2,070	10	11	0	0	7	A	MisL	2,363
100					6	0	0	0	M	MisL	3,251
20	Bethel: MisU	S	2,880	9	2	0	0		ML		
20	Ohara: MisL	L	3,100	3	1	0	0		MC		
60	McClosky: MisL	L	3,120	5	3	0	0		MC		
10	Aux Vases: MisU	S	3,030	8	1	0	0	0	ML	MisL	3,242
700	McClosky: MisL	L	3,300	11	43	0	2	1	A	MisL	3,493
15,000					1,123	115	17	897	A	Dev	5,345
400	Tar Springs: MisU	S	2,430	25	25	0	0		A		
100	Hardinsburg: MisU ²⁸	S	2,480	10	0	0	0		A		
860	Cypress: MisU	S	2,700	15	48	0	0		A		
200	Paint Creek: MisU	S	2,950	18	9	0	0		A		
2,000	Bethel: MisU	S	2,975	18	109	1	5		A		
10,800	Aux Vases: MisU	S	3,150	20	691	109	7		A		
2,000	Ohara: MisL	L	3,110	10	53	2	0		A		
400	Rosiclare: MisL	LS	3,130	7	10	0	1		A		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
455			0	x	0	x
456						
457	Decatur: Macon	1953	0	4,000	0	10,000
458	Decatur North: Macon ⁵²	1954	0	0	0	100
459	Divide: Jefferson	1943	0	15,000	0	421,000
460			0	x	0	x
461			0	x	0	x
462			0	x	0	x
463						
464	Divide East: Jefferson	1947	0	71,000	0	1,261,000
465			0	x	0	x
466			0	x	0	x
467			0	x	0	x
468						
469	Divide South: Jefferson	1948	0	7,000	0	174,000
470	Divide West: Jefferson	1944	0	170,000	0	3,084,000
471			0	x	0	x
472			0	x	0	x
473			0	x	0	x
474						
475	Dix South: Jefferson ⁵³	1941	0	0	0	13,000
476	Dubois: Washington ^{5, 54}	1939	0	147,000	0	431,000
477			0	x	0	x
478			0	x	0	x
479						
480	Dubois Central: Washington	1954	0	17,000	0	24,000
481			0	0	0	0
482			0	17,000	0	24,000
483	Dudley: Edgar ⁵	1948	0	63,000	0	584,000
484			0	x	0	x
485			0	x	0	x
486	Dudleyville East: Bond	1954	0	1,000	0	2,000
487	Dundas East: Richland, Jasper	1942	2,000	58,000	2,000	1,973,000
488			0	x	0	x
489			0	x	0	x
490			2,000	x	2,000	x
491						
492	Eberle: Effingham	1947	0	3,000	0	70,000
493			0	x	0	x
494			0	x	0	x
495			0	x	0	x
496	Edinburg: Christian ⁵⁵	1949	0	0	0	0
497	Edinburg South: Christian	1955	0	0	0	0
498	Edinburg West: Christian,	1954	0	540,000	0	600,000
499	Sangamon		0	x	0	x
500			0	x	0	x
501						
502	Elba: Gallatin	1955	0	3,000	0	3,000
503			0	x	0	x
504			0	x	0	x
505	Elbridge: Edgar	1949	0	61,000	0	1,226,000
506			0	x	0	x
507			0	x	0	x
508			0	0	0	x
509	Eldorado Consolidated: Saline ^{5, 56}	1941	0	3,523,000	0	4,074,000
510			0	x	0	x
511			0	x	0	x
512			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
2,000	McClosky: MisL ₁	L	3,150	7	50	1	2		A		
120	Silurian: Sil	L	2,000	7	128	2	2		MU	Ord	2,800
20	Silurian: Sil	L	2,200	10	6	0	0	6	MU	Sil	2,240
280					13	2	0	7	A	MisL	2,951
20	Ohara: MisL ²⁸	L	2,705	11	0	0	0		AC		
260	McClosky: MisL	L	2,750	6	11	0	0		AC		
40	St. Louis: MisL ₁	L	2,850	7	1	1	0		AC		
700					1	1	0				
110	Aux Vases: MisU	S	2,620	10	41	0	1	29	A	MisL	2,911
60	Rosiclare: MisL	L	2,700	10	9	0	0		AL		
600	McClosky: MisL ₁	L	2,750	5	3	0	0		AL		
80	McClosky: MisL	L	2,880	5	28	0	1		AC		
1,200					1	0	0				
120	Ohara: MisL	L	2,680	10	1	0	0		x	MisL	2,981
260	Rosiclare: MisL	LS	2,700	6	4	0	0	51	A	MisL	2,902
1,100	McClosky: MisL ₁	L	2,750	6	59	3	0		AC		
20	Bethel: MisU	S	1,950	8	1	0	0		AC		
690					9	0	0		AC		
400	Cypress: MisU	S	1,230	10	62	42	1	56	N	MisL	2,283
310	Bethel: MisU ₁	S	1,325	10	2	0	0		A	Ord	4,217
50					34	27	1		AL		
10	Bethel: MisU	S	1,335	12	27	14	0		AL		
40	Rosiclare: MisL	L	1,530	8	2	1	0				
580					3	2	0	3	x	Dev	3,100
260	Upper Dudley: Pen	S	310	20	74	2	1	62	x		
560	Lower Dudley: Pen	S	410	50	2	1	0		M	St. Peter	2,997
40	Devonian: Dev	L	2,370	5	20	0	0		ML		
1,660					54	2	1		ML		
x	Ohara: MisL	OL	2,905	10	2	0	0	1	A	Ord	3,397
x	Rosiclare: MisL	OL	2,920	8	60	1	0	52	A	MisL	3,158
x	McClosky: MisL ₁	OL	2,950	10	7	0	0		A		
110					19	1	0		A		
10	Cypress: MisU	S	2,475	10	33	0	0		A		
20	Rosiclare: MisL	LS	2,680	5	1	0	0	5	N	MisL	2,882
80	McClosky: MisL	L	2,820	7	6	0	0		NL		
20	Cedar Valley: Dev	L	1,810	2	1	0	0		NC		
20	Hibbard: Dev	LS	1,795	13	4	0	0		N		
660					1	1	0		A	Dev	1,853
60	Devonian: Dev	S	1,660	6	1	1	0	28	x	Sil	1,902
640	Silurian: Sil ₁	L	1,690	8	30	15	2		A	Ord	2,285
50					1	1	0		A		
20	Bethel: MisU	S	2,660	10	2	2	0	3	A	MisL	2,991
40	Ohara: MisL	L	2,820	11	2	1	0		x		
360					3	3	0		x		
20	Pennsylvanian: Pen	S	760	3	38	0	0	27	D	Dev	2,093
360	Fredonia: MisL	L	950	3	2	0	0		D		
20	Devonian: Dev ²⁸	L	1,950	20	36	0	0		D		
2,200					0	0	0		R		
80	Palestine: MisU	S	1,920	20	208	147	0	206	A	MisL	3,606
1,340	Waltersburg: MisU	S	2,120	25	14	12	0		AL		
130	Tar Springs: MisU	S	2,200	15	130	119	0		AL		
					9	7	0		AL		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
513			0	x	0	x
514			0	x	0	x
515			0	x	0	x
516			0	x	0	x
517			0	x	0	x
518			0	x	0	x
519			0	x	0	x
520			0	x	0	x
521	Eldorado East: Saline	1953	0	69,000	0	162,000
522			0	x	0	x
523			0	x	0	x
524			0	x	0	x
525			0	x	0	x
526			0	x	0	x
527			0	x	0	x
528	Eldorado West: Saline	1955	0	2,000	0	2,000
529			0	x	0	x
530			0	x	0	x
531	Elk Prairie: Jefferson ⁵⁷	1938	0	0	0	1,000
532	Elkton: Washington	1955	0	2,000	0	2,000
533	Elkville: Jackson	1941	0	0	0	4,000
534	Ellery Consolidated: Edwards,	1941	0	567,000	0	2,346,000
535	Wayne		0	x	0	x
536			0	x	0	x
537			0	x	0	x
538			0	x	0	x
539			0	x	0	x
540			0	x	0	x
541			0	x	0	x
542	Ellery East: Edwards	1952	0	92,000	0	367,000
543			0	x	0	x
544			0	x	0	x
545			0	x	0	x
546	Ellery North: Edwards ⁵⁸	1942	0	8,000	0	18,000
547			0	x	0	x
548			0	x	0	x
549			0	x	0	x
550			0	0	0	3,000
551			0	0	0	0
552	Ellery South: Edwards ⁵⁹	1943	0	4,000	0	156,000
553			0	4,000	0	17,000
554			0	0	0	138,000
555	Elliottstown: Effingham ⁶⁰	1947	0	0	0	14,000
556	Elliottstown East: Effingham	1954	0	2,000	0	2,000
557	Elliottstown North: Effingham	1953	0	1,000	0	9,000
558	Enfield: White ⁶¹	1950	0	45,000	0	235,000
559			0	x	0	x
560			0	x	0	x
561			0	x	0	x
562	Epworth Consolidated: White ⁵	1941	0	177,000	0	1,122,000
563			0	x	0	x
564			0	x	0	x
565			0	x	0	x
566			0	x	0	x
567			0	x	0	x
568			0	x	0	x
569			0	x	0	x
570			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
130	Hardinsburg: MisU	S	2,350	8	8	0	0		AL		
40	Cypress: MisU	S	2,575	8	1	1	0		AL		
60	Paint Creek: MisU	S	2,680	18	2	1	0		AL		
460	Aux Vases: MisU	S	2,900	12	32	2	0		AL		
40	Ohara: MisL	L	2,900	5	1	1	0		AC		
20	Rosiclare: MisL ²⁸	LS	2,900	4	0	0	0		AC		
40	McClosky: MisL	L	2,975	5	2	0	0		AC		
					15	4	0				
260					20	3	1	19	A	MisL	3,102
10	Palestine: MisU	S	1,915	10	1	0	0		AL		
20	Tar Springs: MisU	S	2,180	10	1	1	0		AL		
30	Cypress: MisU	S	2,515	20	2	0	0		AC		
190	Aux Vases: MisU	S	2,885	6	14	2	0		AL		
20	Rosiclare: MisL	L	2,975	4	1	0	1		AC		
					1	0	0				
20					2	2	0	2	x	MisL	3,138
10	Renault: MisU ²⁸	L	2,910	6	0	0	0		x		
20	Aux Vases: MisU	L	2,960	6	2	2	0		x		
20	McClosky: MisL	L	2,735	7	1	0	0	0	x	MisL	2,956
40	Bailey: Dev	L	2,340	30	2	2	0	2	x	Dev	2,485
10	Bethel: MisU	S	2,000	10	1	0	0	0	x	MisL	2,387
2,600					174	35	2	160	H	MisL	3,556
250	Bethel: MisU	S	3,110	11	20	1	1		HL		
950	Aux Vases: MisU	S	3,235	20	56	16	0		HL		
620	Ohara: MisL	L	3,300	10	15	0	0		HC		
740	Rosiclare: MisL	L	3,320	11	13	5	0		HC		
900	McClosky: MisL	L	3,350	4	27	5	1		HC		
40	St. Louis: MisL	L	3,430	10	1	0	0		HL		
					42	8	0				
320					24	6	0	24	M	MisL	3,390
160	Aux Vases: MisU	S	3,180	35	13	4	0		ML		
180	Ohara: MisL	L	3,255	6	11	2	0		MC		
40	Rosiclare: MisL	L	3,255	4	2	0	0		MC		
140					6	0	0	3	M	MisL	3,496
20	Bethel: MisU	S	3,100	35	1	0	0		ML		
10	Aux Vases: MisU ²⁸	S	3,280	12	0	0	0		ML		
80	Rosiclare: MisL	S	3,345	8	3	0	0		ML		
40	McClosky: MisL	L	3,420	7	1	0	0		MC		
					1	0	0				
200					8	0	0	3	M	MisL	3,434
40	Aux Vases: MisU	S	3,200	15	4	0	0		ML		
160	McClosky: MisL	L	3,300	9	4	0	0		MC		
20	Rosiclare: MisL	S	2,730	8	1	0	0	0	HL	MisL	2,884
10	Cypress: MisU	S	2,485	5	1	0	0	1	HL	MisL	2,867
20	Cypress: MisU	S	2,430	4	2	0	0	1	HL	MisL	2,865
280					16	0	0	16	A	MisL	4,259
140	Aux Vases: MisU	S	3,250	10	9	0	0		AL		
40	Ohara: MisL	L	3,310	4	2	0	0		AC		
100	McClosky: MisL	L	3,385	8	5	0	0		AC		
760					67	18	1	62	A	MisL	3,240
40	Pennsylvanian: Pen	S	1,320	10	4	1	0		A		
50	Biehl: Pen	S	1,840	4	5	2	1		Af		
60	Degonia: MisU	S	2,090	10	5	0	0		AL		
120	Clare: MisU	S	2,100	10	11	1	0		AL		
30	Palestine: MisU	S	2,150	12	2	0	0		AL		
30	Waltersburg: MisU	S	2,345	6	1	0	0		AL		
70	Tar Springs: MisU	S	2,360	15	5	0	0		Af		
50	Cypress: MisU	S	2,730	10	3	1	0		Af		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
571			0	x	0	x
572			0	x	0	x
573			0	x	0	x
574			0	x	0	x
575			0	x	0	x
576	Evers: Effingham ⁶²	1948	0	14,000	0	46,000
577			0	14,000	0	45,000
578			0	0	0	1,000
579	Evers South: Effingham ⁶³	1948	0	0	0	2,000
580	Ewing: Franklin	1944	0	15,000	0	481,000
581			0	2,000	0	51,000
582			0	13,000	0	430,000
583	Exchange: Marion	1943	0	1,000	0	59,000
584			0	x	0	x
585			0	x	0	x
586	Exchange East: Marion	1955	0	78,000	0	78,000
587			0	x	0	x
588			0	x	0	x
589			0	x	0	x
590			0	x	0	x
591			0	x	0	x
592	Exchange North: Marion ⁶⁴	1951	0	0	0	2,000
593	Fairman: Marion, Clinton	1939	0	24,000	0	1,583,000
594	Fitzgerrell: Jefferson ⁶⁵	1944	0	0	0	16,000
595			0	0	0	x
596			0	0	0	x
597	Flora South: Clay	1946	0	7,000	0	144,000
598	Francis Mills: Saline	1952	0	7,000	0	44,000
599	Francis Mills South: Saline	1955	0	3,000	0	3,000
600	Freeburg South: St. Clair	1955	0	x	0	x
601	Friendsville Central: Wabash	1946	0	1,000	0	31,000
602	Friendsville North: Wabash	1946	6,000	9,000	140,000	197,000
603	Frogtown North: Clinton	1951	0	210,000	0	1,339,000
604			0	x	0	x
605			0	x	0	x
606	Gards Point: Wabash	1951	0	4,000	0	56,000
607	Gards Point North: Wabash	1952	0	1,000	0	19,000
608	Gays: Moultrie ⁶⁶	1946	0	11,000	0	12,000
609			0	x	0	x
610			0	x	0	x
611			0	x	0	x
612	Glenarm: Sangamon	1955	0	500	0	500
613	Goldengate Consolidated:	1938	3,000	463,000	8,000	7,036,000
614	Wayne, White		0	x	0	x
615			x	x	x	x
616			0	x	0	x
617			x	x	x	x
618			0	x	0	x
619	Goldengate East: Wayne	1951	0	1,000	0	5,000
620	Goldengate North Consolidated:	1945	0	52,000	0	231,000
621	Wayne		0	x	0	x
622			0	x	0	x
623			0	x	0	x
624			0	x	0	x
625			0	x	0	x
626			0	x	0	x
627	Grandview: Edgar ⁵	1945	0	100	0	100
628	Half Moon: Wayne	1947	0	226,000	0	1,355,000

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
10	Renault: MisU	L	2,990	5	1	1	0		A		
270	Aux Vases: MisU	S	3,000	13	22	10	0		Af		
20	Ohara: MisL ²⁸	L	3,095	10	0	0	0		AC		
80	Rosiclare: MisL	L	3,115	2	3	1	0		AC		
70					5	1	0				
60	Rosiclare: MisL	L	2,610	7	4	0	0	3	A	MisL	2,808
10	McClosky: MisL	L	2,660	4	3	0	0		AL		
10	Rosiclare: MisL	LS	2,650	8	1	0	0	0	AC		
150					8	0	0	3	AL	MisL	2,771
10	Aux Vases: MisU	S	2,835	8	1	0	0		A		
140	McClosky: MisL	L	2,970	7	7	0	0		AL		
80					2	0	0	1	A		
40	Ohara: MisL ²⁸	L	2,695	10	0	0	0		M	MisL	2,869
80	McClosky: MisL	L	2,730	8	2	0	0		MC		
240					12	12	0	12	MC		
20	Ohara: MisL	L	2,775	14	1	1	0		x		
100	Rosiclare: MisL	S	2,780	11	3	0	0		x		
180	McClosky: MisL	L	2,840	4	6	6	0		x		
20	St. Louis: MisL	L	2,940	8	1	1	0		x		
40	McClosky: MisL	L	2,715	6	2	1	0	1	MC	MisL	2,831
460	Bethel: MisU	S	1,435	10	41	0	0	22	A	Ord	4,100
10					1	0	0	0	x	MisL	3,012
10	Bethel: MisU	S	2,760	5	1	0	0		x		
10	Aux Vases: MisU ²⁸	S	2,800	x	0	0	0		x		
100	McClosky: MisL	L	2,985	6	4	0	0	3	AC	MisL	3,361
10	Cypress: MisU	S	2,675	5	1	0	0	1	x	MisL	3,238
20	Ohara: MisL	L	3,010	11	1	1	0	1	x	MisL	3,180
10	Cypress: MisU	S	385	x	1	1	0	1	x	Ord	2,000
50	Bethel: MisU	S	2,330	15	5	0	1	2	MC	MisL	2,630
120	Biehl: Pen	S	1,620	12	13	0	0	8	MC	MisL	2,592
580					34	2	1	31	D	Sil	2,456
100	St. Louis	L	1,200	10	5	0	0		D		
580	Devonian-Silurian	L	2,250	8	29	2	1		R		
20	Ohara: MisL	L	2,840	6	1	0	0	1	MC	MisL	2,961
20	Ohara: MisL	L	2,850	3	1	0	0	1	MC	MisL	2,955
100					5	4	0	4	M	Dev	3,305
100	Aux Vases: MisU	S	1,970	5	4	3	0		ML		
20	Devonian: Dev ²⁸	L	3,205	3	0	0	0		MC		
20					1	1	0				
3,800	Silurian: Sil	L	1,680	9	1	1	0	1	x	Sil	1,720
730					205	7	5	157	A	MisL	3,607
800	Aux Vases: MisU	S	3,180	15	66	4	2		AL		
1,000	Ohara: MisL	OL	3,250	6	13	2	0		AC		
2,000	Rosiclare: MisL	LS	3,275	7	16	0	1		AC		
	McClosky: MisL	OL	3,310	7	69	0	2		AC		
20					41	1	0				
400	Ohara: MisL	L	3,290	3	1	0	0	1	x	MisL	3,420
10					27	1	0	23	M	MisL	3,509
160	Bethel: MisU ²⁸	S	3,095	3	0	0	0		ML		
120	Aux Vases: MisU	S	3,235	25	11	0	0		ML		
160	Ohara: MisL ²⁸	L	3,300	4	0	0	0		MC		
60	Rosiclare: MisL	L	3,325	5	5	1	0		MC		
	McClosky: MisL	L	3,350	6	2	0	0		MC		
10					9	0	0				
700	Pennsylvanian: Pen	S	560	10	1	0	0	1	M	Ord	2,694
					35	11	0	32	M	MisL	3,510

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
629			0	x	0	x
630			0	x	0	x
631			0	x	0	x
632			0	x	0	x
633						
634	Harco: Saline	1954	0	3,000	0	3,000
635			0	3,000	0	3,000
636			0	500	0	500
637	Harco East: Saline	1955	0	9,000	0	9,000
638			0	2,000	0	2,000
639			0	7,000	0	7,000
640	Harrisburg: Saline ⁵	1954	0	77,000	0	77,000
641			0	77,000	0	77,000
642			0	500	0	500
643	Harrisburg South: Saline	1955	0	0	0	0
644	Harristown: Macon	1954	0	2,000	0	4,000
645	Herald Consolidated: White,	1939	0	1,044,000	0	7,685,000
646	Gallatin ^{67, 5}		0	x	0	x
647			0	x	0	x
648			0	x	0	x
649			0	x	0	x
650			0	x	0	x
651			0	x	0	x
652			0	x	0	x
653			0	x	0	x
654			0	x	0	x
655			0	x	0	x
656			0	x	0	x
657			0	x	0	x
658			0	x	0	x
659			0	x	0	x
660			0	x	0	x
661						
662	Hidalgo: Jasper ⁶⁸	1940	0	0	0	10,000
663	Hidalgo North: Cumberland	1946	0	1,000	0	11,000
664	Hill: Effingham ⁶⁹	1943	0	0	0	41,000
665	Hill East: Effingham	1954	0	177,000	0	275,000
666			0	92,000	0	92,000
667			0	x	0	x
668			0	x	0	x
669						
670	Hoffman: Clinton	1939	0	11,000	0	701,000
671			0	x	0	x
672			0	x	0	x
673						
674	Hoodville East: Hamilton ⁷⁰	1944	0	0	0	1,000
675	Hord: Clay	1950	0	81,000	0	221,000
676	Hord South: Clay ⁷¹	1942	0	69,000	0	877,000
677			0	x	0	x
678			0	x	0	x
679	Hoyleton West: Washington	1955	0	1,000	0	1,000
680	Huey: Clinton	1945	0	0	0	3,000
681	Huey South: Clinton	1953	0	13,000	0	26,000
682	Hunt City: Jasper ⁷²	1945	0	0	0	1,000
683	Hunt City East: Jasper ⁷³	1952	0	0	0	4,000
684	Hunt City South: Jasper	1947	0	2,000	0	30,000
685	Ina: Jefferson ⁷⁴	1938	0	0	0	16,000
686			0	0	0	0

OIL PRODUCTION

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(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
20	Aux Vases: MisU	S	3,190	18	1	0	0		ML		
240	Ohara: MisL	L	3,280	11	11	10	0		MC		
80	Rosiclare: MisL	L	3,280	4	2	0	0		MC		
400	McClosky: MisL	L	3,300	10	19	0	0		MC		
30					2	1	0				
10	Paint Creek: MisU	S	2,675	8	3	2	0	3	x	MisL	3,107
20	Aux Vases: MisU	S	2,860	15	1	0	0		x		
30					2	2	0		x		
10	Cypress: MisU	S	2,555	20	2	2	0	2	x	MisL	3,031
20	Ohara: MisL	L	2,880	14	1	1	0		x		
90					9	9	0	9	x	MisL	2,930
80	Waltersburg: MisU	S	2,020	14	8	8	0		x		
10	Tar Springs: MisU	S	2,115	6	1	1	0		x		
10	Cypress: MisU	S	2,301	x	1	1	0	1	x	MisL	2,352
20	Silurian: Sil	L	2,050	3	1	0	0	1	MU	Sil	2,080
4,500					426	56	14	356	A	MisL	3,394
10	Pennsylvanian: Pen	S	1,060	10	1	0	0		AL		
160	Pennsylvanian: Pen	S	1,500	15	12	1	0		AL		
20	Pennsylvanian: Pen	S	1,750	18	2	1	1		AL		
30	Degonia: MisU	S	1,920	12	3	2	1		AL		
20	Clore: MisU ²⁸	S	1,965	10	0	0	0		AL		
10	Palestine: MisU	S	1,940	20	1	1	0		AL		
420	Waltersburg: MisU	S	2,240	10	39	0	1		A		
400	Tar Springs: MisU	S	2,260	13	33	6	2		A		
1,450	Cypress: MisU	S	2,660	14	139	5	3		A		
10	Paint Creek: MisU ²⁸	S	x	x	0	0	0		AL		
200	Bethel: MisU	S	2,790	11	14	4	0		AL		
1,650	Aux Vases: MisU	S	2,920	6	143	36	5		AL		
140	Ohara: MisL	L	2,965	6	5	0	0		AC		
120	Rosiclare: MisL	L	3,005	4	3	0	0		AC		
400	McClosky: MisL	L	3,010	10	14	0	1		AC		
60	McClosky: MisL	L	2,575	4	3	0	0	0	MC	Dev	4,140
40	Rosiclare: MisL	S	2,655	12	2	0	0	1	x	MisL	2,776
80	McClosky: MisL	L	2,565	5	2	0	0	0	N	MisL	2,710
390					30	23	0	30	x	MisL	3,251
210	Cypress: MisU	S	2,460	8	21	21	0		x		
40	Rosiclare: MisL	L	2,660	5	1	0	0		x		
160	McClosky: MisL	L	2,700	7	7	2	0		x		
260					1	0	0				
120	Cypress: MisU	S	1,190	11	12	0	0	27	A	Dev	2,914
180	Bethel: MisU	S	1,320	7	35	0	0		A		
20	McClosky: MisL	L	3,365	3	1	0	0	0	N	MisL	3,411
180	Ste. Genevieve: MisL	L	2,800	5	9	2	0	9	M	MisL	2,954
550					25	2	0	24	N	MisL	2,975
10	Aux Vases: MisU	S	2,735	8	1	1	0		N		
540	Ste. Genevieve: MisL	L	2,790	7	24	1	0		NC		
20	Clear Creek: Dev	L	2,895	12	1	1	0	1	x	Sil	2,965
100	Bethel: MisU	S	1,260	6	7	0	0	0	AL	Dev	2,720
110	Cypress: MisU	S	1,080	5	12	2	0	11	x	Sil	2,675
20	Rosiclare: MisL	S	2,540	10	1	0	0	0	ML	MisL	2,715
20	Fredonia: MisL	L	1,845	6	1	0	0	0	x	MisL	1,855
80	McClosky: MisL	L	2,445	7	4	0	0	2	MC	MisL	2,559
50					3	0	0	0	A	MisL	3,498
10	Renault: MisU	S	2,725	14	1	0	0		AL		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
687			0	0	0	16,000
688	Ina North: Jefferson	1949	0	0	0	1,000
689	Inclose: Edgar, Clark ⁵	1941	0	x	0	x
690	Ingraham: Clay ⁷⁵	1942	0	16,000	0	531,000
691			0	x	0	x
692			0	x	0	x
693			0	x	0	x
694	Inman East Consolidated:	1940	801,000	1,034,000	929,000	11,993,000
695	Gallatin		0	x	0	x
696			0	x	0	x
697			0	x	0	x
698			0	x	0	x
699			0	x	0	x
700			0	x	0	x
701			493,000	x	569,000	x
702			0	x	0	x
703			308,000	x	360,000	x
704			0	x	0	x
705			0	x	0	x
706			0	x	0	x
707			0	x	0	x
708						
709	Inman West Consolidated:	1940	0	379,000	0	3,430,000
710	Gallatin		0	x	0	x
711			0	x	0	x
712			0	x	0	x
713			0	x	0	x
714			0	x	0	x
715			0	x	0	x
716			0	x	0	x
717			0	x	0	x
718			0	x	0	x
719			0	x	0	x
720			0	x	0	x
721						
722	Iola Central: Clay		1954	0	1,000	0
723	Iola Consolidated: Clay,	1939	0	428,000	0	8,719,000
724	Efingham		0	x	0	x
725			0	x	0	x
726			0	x	0	x
727			0	x	0	x
728			0	x	0	x
729			0	x	0	x
730			0	x	0	x
731			0	x	0	x
732						
733	Iola South: Clay		1947	0	14,000	0
734		0		x	0	x
735		0		x	0	x
736		0		x	0	x
737						
738	Iola West: Clay ⁷⁶	1945	0	0	0	500
739	Irvington: Washington	1940	0	247,000	0	5,747,000
740			0	x	0	x
741			0	x	0	x
742			0	x	0	x
743			0	x	0	x
744						

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
40	St. Louis: MisL	L	3,000	4	2	0	0		AC		
20	McClosky: MisL	L	2,940	4	1	0	0	0	x	MisL	3,150
50	Isabel: Pen	S	345	8	6	0	0	2	AL	MisL	1,600
660					32	0	0	26	M	MisL	3,148
10	Aux Vases: MisU ²⁸	S	2,915	15	0	0	0		ML		
620	Rosiclare: MisL	L	3,000	7	28	0	0		MC		
80	McClosky: MisL	L	3,075	8	4	0	0		MC		
3,320					336	21	3	306	A	MisL	3,020
10	Pennsylvanian: Pen	S	780	10	4	0	0		AF		
40	Pennsylvanian: Pen	S	1,450	4	1	0	0		AF		
50	Degonia: MisU	S	1,690	10	1	0	0		AF		
60	Clare: MisU	S	1,725	8	1	0	0		AF		
50	Palestine: MisU	S	1,840	13	1	0	0		AF		
540	Waltersburg: MisU	S	1,980	18	33	2	0		AF		
1,500	Tar Springs: MisU	S	2,080	13	127	0	2		AF		
220	Hardinsburg: MisU	S	2,135	10	9	3	0		AF		
1,380	Cypress: MisU	S	2,390	14	98	4	0		AF		
110	Aux Vases: MisU	S	2,715	8	12	5	1		AF		
20	Ohara: MisL	L	2,795	5	1	0	0		AF		
20	Rosiclare: MisL	L	2,790	7	1	0	0		AF		
140	McClosky: MisL	L	2,800	8	4	0	0		AF		
2,900					43	7	0				
40	Pennsylvanian: Pen	S	925	8	238	30	1	205	T	MisL	3,094
40	Palestine: MisU	S	1,765	13	3	0	0		NL		
90	Waltersburg: MisU	S	2,080	10	7	1	0		NL		
760	Tar Springs: MisU	S	2,140	8	46	1	0		TL		
190	Hardinsburg: MisU	S	2,300	10	7	0	0		TL		
1,220	Cypress: MisU	S	2,475	10	78	13	0		T		
20	Renault: MisU	L	2,775	7	1	0	0		T		
470	Aux Vases: MisU	S	2,790	15	34	10	1		TL		
80	Ohara: MisL	L	2,815	12	1	0	0		TC		
40	Rosiclare: MisL	L	2,815	8	1	0	0		TC		
280	McClosky: MisL	L	2,940	6	7	0	0		TC		
10	Bethel: MisU	S	2,420	5	49	5	0				
2,900					220	8	1	179	x	MisL	2,723
10	Tar Springs: MisU ²⁸	S	1,890	9	0	0	0		A	Dev	4,227
470	Cypress: MisU	S	2,125	15	27	0	0		AL		
30	Paint Creek: MisU ²⁸	S	2,255	10	0	0	0		A		
810	Bethel: MisU	S	2,290	12	29	1	0		AL		
10	Renault: MisU	L	2,320	x	0	0	0		A		
1,420	Aux Vases: MisU	S	2,325	10	76	1	0		AC		
820	Rosiclare: MisL	LS	2,400	7	18	6	1		A		
700	McClosky: MisL	OL	2,435	10	16	0	0		A		
200					54	0	0				
120	Bethel: MisU	S	2,490	10	15	0	1	13	A	Dev	4,325
100	Rosiclare: MisL	L	2,590	6	4	0	0		AL		
40	McClosky: MisL	L	2,650	3	1	0	0		AC		
20	McClosky: MisL	L	2,495	11	1	0	0	0	AC		
1,120					119	15	2	99	MC	MisL	2,613
10	Barlow: MisU ²⁸	L	1,525	3	0	0	0		A	Dev	3,412
280	Cypress: MisU	S	1,380	12	25	12	0		A		
870	Bethel: MisU	S	1,535	12	82	0	2		A		
280	Clear Creek: Dev	L	3,090	12	10	3	0		A		
					2	0	0				

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
745	Irvington East: Jefferson	1951	0	65,000	0	72,000
746			0	2,000	0	9,000
747			0	x	0	x
748			0	x	0	x
749	Irvington North: Washington	1953	0	134,000	0	360,000
750			0	x	0	x
751			0	x	0	x
752			0	x	0	x
753	Iuka: Marion	1947	0	306,000	0	462,000
754			0	x	0	x
755			0	x	0	x
756			0	x	0	x
757			0	x	0	x
758			0	x	0	x
759	Iuka West: Marion	1955	0	1,000	0	1,000
760	Johnsonville Consolidated: Wayne	1940	223,000	871,000	233,000	29,467,000
761			0	x	0	x
762			0	x	0	x
763			0	x	0	x
764			0	x	0	x
765			223,000	x	233,000	x
766			0	x	0	x
767			Johnsonville North: Wayne	1943	0	1,000
768	0	x			0	x
769	0	x			0	x
770	0	x			0	x
771	Johnsonville South: Wayne	1942	0	38,000	0	463,000
772			0	x	0	x
773			0	x	0	x
774			0	x	0	x
775	Johnsonville West: Wayne	1942	0	51,000	0	489,000
776			0	x	0	x
777			0	x	0	x
778			0	x	0	x
779			0	x	0	x
780			0	x	0	x
781			0	x	0	x
782			Junction: Gallatin	1939	58,000	60,000
783	0	1,000			0	15,000
784	58,000	56,000			58,000	427,000
785	0	0			0	5,000
786	0	x			0	x
787	0	x			0	x
788	0	x			0	x
789	Junction East: Gallatin	1953			0	7,000
790	Junction North: Gallatin	1946	0	21,000	0	51,000
791			0	2,000	0	21,000
792			0	x	0	x
793			0	5,000	0	16,000
794			0	x	0	x
795			0	3,000	0	4,000
796	Keensburg East: Wabash ⁷⁷	1939	0	0	0	9,000
797			0	0	0	x
798			0	0	0	x
799			8,000	50,000	9,000	458,000
800	Keensburg South: Wabash	1944	0	x	0	x
801			8,000	x	9,000	x
802			0	1,000	0	65,000
			0			

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
200	Pennsylvanian: Pen	S	1,030	15	20	16	0	20	x	MisL	2,222
40	Cypress: MisU	S	1,750	15	4	0	0		x		
60	Bethel: MisU	S	1,950	x	4	4	0		x		
120	Bethel: MisU ₁	S	1,950		10	10	0		x		
250	Cypress: MisU	S	1,340	16	25	3	0	25	A	Ord	4,334
30	Bethel: MisU	S	1,470	6	3	3	0		AL		
220	Bethel: MisU	S	1,470	6	22	0	0		AL		
760	Ohara: MisL	L	2,650	5	38	19	0	36	M	MisL	2,911
120	Rosiclare: MisL ²⁸	L	2,660	15	1	1	0		MC		
100	McClosky: MisL	L	2,750	10	0	0	0		MC		
600	St. Louis: MisL	L	2,775	5	17	6	0		MC		
300	St. Louis: MisL ₁	L	2,775	5	6	3	0		MC		
20	McClosky: MisL	L	2,700	5	14	9	0				
8,900	McClosky: MisL	L	2,700	5	1	1	0	1	x	MisL	2,801
30	Bethel: MisU ²⁸	S	2,950	12	404	6	2	327	A	Dev	5,198
2,400	Aux Vases: MisU	S	3,020	20	0	0	0		AL		
600	Ohara: MisL	OL	3,120	10	85	4	0		AL		
120	Rosiclare: MisL	OL	3,150	8	6	0	0		AC		
8,200	McClosky: MisL ₁	OL	3,170	15	5	0	0		AC		
80	Ohara: MisL ²⁸	OL	3,190	3	271	2	2		AC		
40	Rosiclare: MisL	L	3,220	8	37	0	0				
40	McClosky: MisL ²⁸	OL	3,250	3	3	2	0	3	A	MisL	3,335
40	McClosky: MisL ²⁸	OL	3,250	3	0	0	0		AC		
440	Aux Vases: MisU	S	3,060	15	1	0	0		AC		
270	Rosiclare: MisL	L	3,160	4	33	1	0	25	A	MisL	3,300
20	McClosky: MisL	L	3,200	5	26	1	0		A		
160	McClosky: MisL	L	3,200	5	6	0	0		AC		
370	Bethel: MisU	S	2,925	7	28	4	1	18	AC	MisL	3,251
10	Aux Vases: MisU	S	2,900	6	1	0	0		M		
170	Ohara: MisL	L	2,930	6	28	4	1		ML		
60	Rosiclare: MisL	L	3,015	4	17	0	0		ML		
20	McClosky: MisL	L	3,100	7	3	1	1		MC		
120	McClosky: MisL	L	3,100	7	1	0	0		MC		
210	Pennsylvanian: Pen	S	1,150	7	21	2	1	18	MC	MisL	2,818
30	Waltersburg: MisU	S	1,750	14	3	0	1		M		
140	Hardinsburg: MisU	S	2,120	5	15	1	0		ML		
10	Cypress: MisU	S	2,275	12	1	0	0		ML		
20	McClosky: MisL ²⁸	L	2,730	9	1	0	0		ML		
20	Waltersburg: MisU	S	2,000	14	0	1	0		MC		
150	Pennsylvanian: Pen	S	1,565	16	1	1	0	2	x	MisL	2,970
50	Cypress: MisU	S	2,450	10	13	5	0	11	M	MisL	2,983
30	Aux Vases: MisU	S	2,725	4	5	0	0		ML		
20	Rosiclare: MisL	L	2,860	6	3	3	0		ML		
60	Wilson: Pen	S	685	8	3	3	0		MC		
10	Ohara: MisL	L	2,705	10	1	0	0	0	NL	MisL	2,007
120	McClosky: MisL	L	2,710	6	3	0	0		M	MisL	2,802
40	McClosky: MisL	L	2,710	6	2	0	0		MC		
80	McClosky: MisL	L	2,710	6	2	0	0		MC		
230	Pennsylvanian: Pen	S	1,145	15	18	3	0	16	A	MisL	2,879
60	Cypress: MisU	S	2,385	9	6	3	0		AL		
130	Ohara: MisL	L	2,715	10	11	0	0		AL		
40	Ohara: MisL	L	2,715	10	1	0	0		AC		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
803	Keenville: Wayne	1945	69,000	112,000	100,000	1,398,000
804			69,000	x	100,000	x
805			0	x	0	x
806			0	x	0	x
807			0	x	0	x
808			0	x	0	x
809	Keenville East: Wayne	1951	0	6,000	0	42,000
810	Kell: Jefferson ⁷⁸	1942	0	0	0	3,000
811	Kenner: Clay	1942	0	30,000	0	880,000
812			0	0	0	x
813			0	x	0	x
814			0	x	0	x
815			0	0	0	x
816			0	0	0	x
817			0	0	0	x
818	Kenner North: Clay	1947	0	28,000	0	766,000
819			0	x	0	x
820			0	x	0	x
821	Kenner South: Clay ⁷⁹	1950	0	0	0	3,000
822	Kenner West: Clay	1947	85,000	131,000	99,000	1,479,000
823			85,000	x	99,000	x
824			0	x	0	x
825			0	x	0	x
826			0	x	0	x
827	Keyesport: Clinton	1949	0	14,000	0	72,000
828	Kincaid: Christian	1955	0	210,000	0	210,000
829	Kincaid South: Christian	1955	0	75,000	0	75,000
830	King: Jefferson	1942	0	352,000	0	2,218,000
831			0	x	0	x
832			0	x	0	x
833			0	x	0	x
834			0	x	0	x
835			0	x	0	x
836	Kinmundy: Marion	1950	0	2,000	0	17,000
837	Kinmundy North: Marion ⁸⁰	1953	0	0	0	500
838	LaClede: Fayette	1943	0	1,000	0	16,000
839	Lakewood: Shelby	1941	0	11,000	0	225,000
840			0	x	0	x
841			0	x	0	x
842	Lancaster: Wabash, Lawrence	1940	0	43,000	0	2,655,000
843			0	x	0	x
844			0	x	0	x
845			0	x	0	x
846			0	x	0	x
847			0	x	0	x
848	Lancaster Central: Wabash	1946	0	6,000	0	356,000
849			0	x	0	x
850			0	x	0	x
851			0	x	0	x
852			0	x	0	x
853	Lancaster East: Wabash	1944	0	2,500	0	34,000
854			0	2,000	0	14,500
855			0	500	0	20,000
856	Lancaster South: Wabash	1946	9,000	31,000	9,000	209,000
857			9,000	31,000	9,000	193,000
858			0	0	0	500
859			0	0	0	16,000
860	Lawrence West: Lawrence	1952	0	71,000	0	290,000

OIL PRODUCTION

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(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
720					53	0	0	45	A	MisL	3,267
250	Aux Vases: MisU	S	2,960	20	25	0	0		AL		
80	Ohara: MisL	L	3,050	8	2	0	0		AC		
20	Rosiclare: MisL	L	3,060	10	1	0	0		AC		
400	McClosky: MisL ₁	L	3,100	7	23	0	0		AC		
60	McClosky: MisL	L	3,140	10	3	0	0	3	x	MisL	3,220
40	McClosky: MisL	L	2,625	6	1	0	0	0	A	MisL	2,720
640					46	0	0	40	A	MisL	3,082
10	Tar Springs: MisU	S	2,200	7	1	0	0		AL		
590	Bethel: MisU	S	2,690	10	42	0	0		A		
10	Aux Vases: MisU ²⁸	S	2,835	9	0	0	0		AL		
20	Rosiclare: MisL	LS	2,875	5	1	0	0		AC		
20	McClosky: MisL ₁	L	2,930	7	1	0	0		AC		
300					32	0	0	28	A	MisL	3,076
280	Bethel: MisU	S	2,755	8	27	0	0		AC		
120	McClosky: MisL	L	2,970	6	5	0	0		AC		
20	McClosky: MisL	L	2,870	10	1	0	0	0	AC	MisL	3,000
310					30	0	0	26	A	Dev	4,800
300	Cypress: MisU	S	2,600	26	14	0	0		A		
200	Bethel: MisU	S	2,705	9	2	0	0		A		
40	McClosky: MisL ²⁸ ₁	L	2,870	4	0	0	0		A		
140	Bethel: MisU	S	1,180	8	13	0	0	8	AL	MisL	1,358
20	Hibbard: Dev	DS	1,780	19	1	1	0	1	MU	Dev	1,804
200	Hibbard: Dev	DS	1,815	12	10	10	0	10	MU	Dev	1,855
1,100					95	17	5	78	A	Dev	4,759
1,000	Aux Vases: MisU	S	2,725	15	77	17	4		AL		
160	Ohara: MisL	L	2,765	10	1	0	0		AC		
140	Rosiclare: MisL	LS	2,815	10	4	0	1		AC		
120	McClosky: MisL ₁	L	2,840	5	2	0	0		AC		
20	Bethel: MisU	S	1,915	3	2	0	0	2	A	MisL	2,389
10	Bethel: MisU	S	2,040	6	1	0	0	0	x	MisL	2,301
30	Bethel: MisU	S	2,335	15	4	0	0	2	A	MisL	2,608
130					12	0	0	11	A	MisL	1,794
80	Bethel: MisU	S	1,690	7	7	0	0		AL		
50	Aux Vases: MisU	S	1,720	8	5	0	0		AL		
1,400					100	0	0	58	A	MisL	2,908
10	Paint Creek: MisU	S	2,530	5	1	0	0		AL		
880	Bethel: MisU	S	2,540	14	67	0	0		AL		
40	Ohara: MisL	L	2,670	10	1	0	0		AC		
500	McClosky: MisL ₁	L	2,690	7	30	0	0		AC		
300					14	0	0	5	M	MisL	2,888
100	Ohara: MisL	L	2,750	7	2	0	0		MC		
260	Rosiclare: MisL	L	2,810	7	8	0	0		MC		
40	McClosky: MisL ²⁸ ₁	L	2,815	8	0	0	0		MC		
50					4	0	0	3	M	MisL	2,750
30	Biehl: Pen	S	1,745	10	3	0	0		ML		
20	Rosiclare: MisL	L	2,660	6	1	0	0		MC		
110					13	1	0	11	M	MisL	2,817
70	Bethel: MisU	S	2,520	6	11	1	0		ML		
20	Ohara: MisL	L	2,670	6	1	0	0		MC		
20	McClosky: MisL	L	2,720	12	1	0	0		MC		
270					25	7	1	23	x	MisL	2,324

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
861			0	x	0	x
862			0	x	0	x
863			0	500	0	2,500
864			0	x	0	x
865						
866	Lexington: Wabash	1947	0	11,000	0	359,000
867			0	2,000	0	8,000
868			0	9,000	0	351,000
869	Lexington North: Wabash	1951	0	500	0	6,000
870	Lillyville: Cumberland, Effingham	1946	0	13,000	0	321,000
871	Livingston: Madison	1948	1,000	51,000	1,000	337,000
872	Livingston South: Madison ⁵	1950	0	17,000	0	118,000
873	Locust Grove: Wayne	1951	0	12,000	0	106,000
874			0	x	0	x
875			0	x	0	x
876			0	x	0	x
877						
878	Locust Grove South: Wayne	1953	0	3,000	0	8,000
879	Long Branch: Saline, Hamilton	1950	0	19,000	0	125,000
880			0	7,000	0	63,000
881			0	x	0	x
882			0	x	0	x
883			0	x	0	x
884						
885	Long Branch South: Saline	1955	0	2,000	0	2,000
886	Louden: Fayette, Effingham ⁵	1937	4,027,000	7,709,000	7,446,000	188,607,000
887			x	x	x	x
888			x	x	x	x
889			x	x	x	x
890			0	x	0	x
891			0	x	0	x
892			0	x	0	x
893			0	x	0	x
894			0	x	0	x
895						
896	Louisville North: Clay	1953	0	500	0	2,000
897	Lynchburg: Jefferson	1951	0	34,000	0	187,000
898	McKinley: Washington	1940	0	8,000	0	420,000
899			0	x	0	x
900			0	x	0	x
901	Maple Grove Consolidated:	1943	30,000	143,000	68,000	3,446,000
902	Edwards, Wayne		0	x	0	x
903			0	x	0	x
904			0	x	0	x
905			30,000	x	68,000	x
906						
907	Maple Grove South: Edwards ⁸¹	1945	0	0	0	9,000
908	Marcoe: Jefferson ⁸²	1938	0	0	0	13,000
909	Marine: Madison	1943	0	349,000	0	9,271,000
910	Marion: Williamson	1950	0	0	0	500
911	Markham City: Jefferson	1942	0	26,000	0	1,218,000
912	Markham City North:	1943	0	36,000	0	941,000
913	Jefferson, Wayne		0	x	0	x
914			0	x	0	x
915	Markham City West: Jefferson	1945	14,000	56,000	18,000	1,513,000
916			14,000	x	18,000	x
917			0	x	0	x
918						

OIL PRODUCTION

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(continued)

Total proved area (acres)	Producing Formation					Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955			Name		Depth of hole (ft.)	
						Completed	Abandoned	Producing end of year				
10	Paint Creek: MisU ²⁸	S	2,040	4	0	0	0			x		
240	Bethel: MisU	S	2,050	15	21	7	1			x		
10	Aux Vases: MisU	S	2,110	8	1	0	0			x		
40	McClosky: MisL	L	2,225	11	1	0	0			x		
					2	0	0					
200					11	0	0	4	A	MisL	3,031	
10	Cypress: MisU	S	2,585	10	1	0	0		AL			
200	McClosky: MisL	L	2,970	8	10	0	0		AC			
40	Ste. Genevieve: MisL	L	2,915	4	2	0	0	1	MC	MisL	3,045	
160	McClosky: MisL	L	2,425	10	8	0	0	8	A	Dev	4,000	
380	Pennsylvanian: Pen	S	535	15	48	0	1	38	ML	Ord	2,378	
330	Pennsylvanian: Pen	S	530	7	35	4	1	29	ML	MisL	845	
80					6	0	0	6	x	MisL	3,420	
40	Aux Vases: MisU	S	3,215	10	4	0	0		x			
40	Ohara: MisL	L	3,240	4	1	0	0		x			
20	McClosky: MisL ²⁸	L	3,280	6	0	0	0		x			
					1	0	0					
20	Rosiclare: MisL	L	3,300	10	1	0	0	1	x	MisL	3,394	
100					8	0	1	5	A	MisL	3,389	
20	Palestine: MisU	S	2,070	8	2	0	0		AL			
30	Cypress: MisU	S	2,745	13	2	0	1		AL			
20	Aux Vases: MisU	S	3,095	9	1	0	0		AL			
40	McClosky: MisL	L	3,220	5	2	0	0		AC			
					1	0	0					
10	Cypress: MisU	S	2,660	8	1	1	0	1	x	MisL	3,210	
23,200					2,171	4	2	1,983	A	St. Peter	4,680	
23,000	Cypress: MisU	S	1,500	30	1,196	3	0		A			
4,000	Paint Creek: MisU	S	1,540	15	172	0	0		A			
9,000	Bethel: MisU	S	1,550	10	428	0	2		A			
50	Aux Vases: MisU	S	1,600	6	1	0	0		AL			
20	McClosky: MisL	L	1,785	4	1	1	0		AC			
20	Carper: MisL ²⁸	S	2,830	9	0	0	0		AL			
2,800	Geneva: Dev	D	3,000	15	85	0	0		A			
20	Trenton: Ord ²⁸	L	3,905	12	0	0	0		A			
					288	0	0					
20	Aux Vases: MisU	S	2,755	10	2	1	1	1	ML	MisL	2,977	
40	McClosky: MisL	L	3,045	8	2	0	0	2	AC	MisL	3,169	
220					17	0	0	7	D	Ord	3,983	
70	Bethel: MisU	S	1,000	5	7	0	0		D			
200	Silurian: Sil	L	2,240	40	10	0	0		R			
2,160					97	4	3	71	A	MisL	3,385	
220	Aux Vases: MisU	S	3,145	15	15	2	1		A			
60	Ohara: MisL	L	3,230	3	1	0	0		AC			
20	Rosiclare: MisL ²⁸	L	3,250	1	0	0	0		AC			
2,040	McClosky- MisL	L	3,260	6	76	2	2		A			
					5	0	0					
20	McClosky: MisL	L	3,250	10	1	0	0	0	MC	MisL	3,358	
40	McClosky: MisL	L	2,745	15	2	0	0	0	MC	MisL	3,066	
3,100	Devonian-Silurian	L	1,740	5	146	0	0	135	R	Ord	2,619	
10	Aux Vases: MisU	S	2,385	5	1	0	0	0	x	MisL	2,560	
760	Ste. Genevieve: MisL	L	3,070	10	19	0	0	11	A	MisL	3,215	
500					18	0	1	9	A	MisL	3,169	
80	Aux Vases: MisU	S	2,950	6	4	0	1		AL			
500	McClosky: MisL	L	3,075	8	14	0	0		AC			
600					34	0	1	29	A	MisL	3,182	
320	Aux Vases: MisU	S	2,905	15	16	0	0		AL			
360	McClosky: MisL	L	3,035	7	15	0	1		AC			
					3	0	0					

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
919	Mason: Effingham	1940	0	2,000	0	226,000
920			0	x	0	x
921			0	x	0	x
922	Mason North: Effingham	1951	0	23,000	0	158,000
923			0	x	0	x
924			0	x	0	x
925			0	x	0	x
926			0	x	0	x
927			0	x	0	x
928	Massilon: Wayne, Edwards ⁸³	1946	0	0	0	91,000
929	Massilon South: Edwards ⁸⁴	1947	0	0	0	500
930	Mattoon: Coles	1939	136,000	462,000	220,000	11,613,000
931			x	x	x	x
932			0	x	0	x
933			x	x	x	x
934			0	x	0	x
935			0	x	0	x
936			0	x	0	x
937	Maunie East: White ⁸⁵	1951	0	15,000	0	19,000
938	Maunie North Consolidated: White ⁸⁶	1941	0	758,000	0	2,014,000
939			0	x	0	x
940			0	x	0	x
941			0	x	0	x
942			0	x	0	x
943			0	x	0	x
944			0	x	0	x
945			0	x	0	x
946			0	x	0	x
947			0	x	0	x
948			0	x	0	x
949			0	x	0	x
950	Maunie South: White	1941	546,000	620,000	2,029,000	5,217,000
951			0	x	0	x
952			0	x	0	x
953			532,000	x	1,183,000	x
954			0	x	0	x
955			14,000	x	846,000	x
956			0	x	0	x
957			0	x	0	x
958			0	x	0	x
959			0	x	0	x
960			0	x	0	x
961			0	x	0	x
962	Mayberry: Wayne	1941	0	4,000	0	312,000
963	Mayberry North: Wayne ⁸⁷	1948	0	0	0	1,000
964	Melrose: Clark	1953	0	1,000	0	4,000
965	Melrose South: Clark	1953	0	0	0	0
966	Miletus: Marion	1947	0	15,000	0	225,000
967			0	x	0	x
968			0	x	0	x
969			0	x	0	x
970			0	x	0	x
971	Mill Shoals: White, Hamilton, Wayne	1939	86,000	458,000	224,000	7,437,000
972			86,000	x	224,000	x
973			0	x	0	x
974			0	x	0	x
975			0	x	0	x
976			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
140					12	0	0	3	A	MisL	2,584
10	Bethel: MisU	S	2,295	8	1	0	0		AL		
130	McClosky: MisL	L	2,500	6	11	0	0		AC		
120					10	0	0	10	A	MisL	2,553
100	Bethel: MisU	S	2,290	13	7	0	0		AL		
10	Aux Vases: MisU ²⁸	S	2,355	5	0	0	0		AL		
60	Rosiclare: MisL	L	2,390	18	2	0	0		AC		
20	McClosky: MisL ²⁸	L	2,475	5	0	0	0		AC		
					1	0	0				
120	Ohara: MisL	L	3,255	6	3	0	0	0	MC	MisL	3,472
20	Ohara: MisL	L	3,315	9	1	0	0	0	MC	MisL	3,391
5,110					423	3	0	362	A	St. Peter	4,915
2,000	Cypress: MisU	S	1,750	13	96	1	0		A		
200	Aux Vases: MisU	S	1,900	15	5	0	0		AL		
3,700	Rosiclare: MisL	S	1,950	12	217	1	0		A		
20	McClosky: MisL	L	2,010	5	1	0	0		AC		
10	Carper: MisL	S	2,950	10	1	1	0		A		
					103	0	0				
40	Aux Vases: MisU	S	2,870	20	4	3	0	3	AF	MisL	3,032
1,800					151	65	3	132	A	MisL	3,260
10	Pennsylvanian: Pen	S	1,320	20	1	0	0		AL		
100	Waltersburg: MisU	S	2,305	12	9	0	0		AL		
110	Tar Springs: MisU	S	2,350	10	8	1	0		AL		
10	Hardinsburg: MisU ²⁸	S	2,565	10	0	0	0		A		
40	Paint Creek: MisU	S	2,830	13	2	0	0		AL		
400	Bethel: MisU	S	2,820	13	22	0	0		AL		
840	Aux Vases: MisU	S	2,930	13	61	49	2		AL		
160	Ohara: MisL	L	2,995	4	5	2	0		AC		
340	Rosiclare: MisL	L	3,025	6	9	0	0		AC		
360	McClosky: MisL	L	3,035	10	11	1	1		AC		
					20	12	0				
1,450					136	5	5	107	A	MisL	3,160
70	Bridgeport: Pen	S	1,400	7	7	0	0		AL		
90	Degonia: MisU	S	1,900	10	6	0	0		AL		
480	Palestine: MisU	S	2,010	17	39	0	0		AL		
20	Waltersburg: MisU	S	2,210	19	2	0	0		AL		
480	Tar Springs: MisU	S	2,270	16	39	2	3		AF		
260	Cypress: MisU	S	2,590	10	22	1	1		AL		
10	Bethel: MisU ²⁸	S	2,735	x	0	0	0		AL		
120	Aux Vases: MisU	S	2,845	12	10	2	1		AL		
20	Rosiclare: MisL ²⁸	L	2,900	8	0	0	0		AC		
40	McClosky: MisL	L	2,920	6	1	0	0		AC		
					10	0	0				
240	McClosky: MisL	L	3,350	8	7	0	0	2	AC	Dev	5,377
20	McClosky: MisL	L	3,330	2	1	0	0	0	x	MisL	3,463
50	Isabel: Pen	S	840	10	5	1	0	5	x	Pen	878
10	Isabel: Pen	S	865	7	1	0	0	0	x	Pen	880
210					15	0	1	11	A	Dev	3,950
90	Bethel: MisU	S	2,140	7	6	1	0		A		
100	Aux Vases: MisU	S	2,200	7	5	0	0		A		
60	McClosky: MisL	L	2,350	5	1	0	1		A		
					3	0	0				
2,600					217	16	3	161	A	MisL	4,311
2,400	Aux Vases: MisU	S	3,245	11	167	13	2		A		
120	Ohara: MisL	OL	3,320	11	2	0	0		AC		
200	Rosiclare: MisL	LS	3,345	8	7	0	0		AC		
700	McClosky: MisL	OL	3,375	5	28	0	0		AC		
					13	3	1				

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
977	Mills Prairie: Edwards ⁸⁸	1948	0	0	0	2,000
978	Mills Prairie North: Edwards	1953	0	1,000	0	5,000
979	Mitchellsville: Saline	1955	0	3,000	0	3,000
980			0	x	0	x
981			0	3,000	0	3,000
982	Mt. Auburn Consolidated: Christian	1943	0	345,000	0	598,000
983	Mt. Carmel: Wabash	1940	196,000	452,000	326,000	10,226,000
984			0	x	0	x
985			12,000	x	89,000	x
986			0	x	0	x
987			0	x	0	x
988			0	x	0	x
989			23,000	x	62,000	x
990			0	x	0	x
991			161,000	x	175,000	x
992			0	x	0	x
993			0	x	0	x
994			0	x	0	x
995			0	x	0	x
996			0	x	0	x
997						
998	Mt. Erie North: Wayne	1944	0	32,000	0	353,000
999			0	x	0	x
1000			0	x	0	x
1001			0	x	0	x
1002	Mt. Olive: Montgomery ⁵	1942	0	x	0	x
1003	Mt. Vernon: Jefferson	1943	0	13,000	0	304,000
1004			0	2,000	0	x
1005			0	0	0	x
1006			0	11,000	0	x
1007						
1008	Murdock: Douglas	1955	0	x	0	x
1009	Nason: Jefferson	1943	0	2,000	0	23,000
1010	New Bellair: Crawford ⁸⁹	1942	0	0	0	10,000
1011			0	0	0	0
1012			0	0	0	10,000
1013	New City: Sangamon	1954	0	28,000	0	28,000
1014	New Harmony Consolidated:	1939	1,907,000	4,488,000	4,771,000	83,012,000
1015	White, Wabash, Edwards ⁹⁰		0	x	0	x
1016			0	x	0	x
1017			0	x	0	x
1018			0	x	0	x
1019			0	x	0	x
1020			0	x	0	x
1021			0	x	0	x
1022			0	x	0	x
1023			1,093,000	x	2,259,000	x
1024			310,000	x	515,000	x
1025			62,000	x	218,000	x
1026			0	x	0	x
1027			330,000	x	1,450,000	x
1028			98,000	x	189,000	x
1029			0	x	0	x
1030			0	x	0	x
1031			14,000	x	139,000	x
1032			0	x	0	x
1033						

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
20	Ohara: MisL	L	2,925	5	1	0	0	0	MC	MisL	3,010
40	Ohara: MisL	L	2,925	5	2	0	0	22	MC	MisL	3,003
20					2	2	0	2		MisL	2,452
10	Degonia: MisU	S	1,330	6	1	1	0		x		
10	Waltersburg: MisU	S	1,505	9	1	1	0		x		
1,800	Silurian: Sil	L	1,890	15	87	19	0	85	MU	Sil	2,020
4,500					437	10	3	296	A	Dev	4,237
60	Bridgeport: Pen	S	1,370	20	5	1	0		AL		
700	Biehl: Pen	S	1,470	20	46	0	0		AL		
50	Jordan: Pen	S	1,520	15	2	0	0		AL		
40	Palestine: MisU	S	1,580	10	3	0	0		AL		
10	Waltersburg: MisU ²⁸	S	1,690	10	0	0	0		AL		
290	Tar Springs: MisU	S	1,790	13	17	3	0		AL		
10	Jackson: MisU ²⁸	S	2,020	25	0	0	0		AL		
3,360	Cypress: MisU	S	2,025	15	256	4	1		AL		
20	Paint Creek: MisU	S	2,095	7	1	0	0		AL		
60	Bethel: MisU	S	2,110	16	3	0	0		AL		
260	Ohara: MisL	OL	2,320	5	9	0	2		AC		
240	Rosiclare: MisL	S	2,350	5	6	0	0		AL		
1,300	McClosky: MisL	OL	2,360	6	44	0	0		AC		
180					45	0	0				
50	Aux Vases: MisU	S	3,110	8	11	0	1	5	M	MisL	3,354
40	Ohara: MisL	L	3,170	6	2	0	0		ML		
100	McClosky: MisL	L	3,240	5	5	0	0		MC		
50	Pottsville: Pen	S	605	6	5	0	0	0	A	Pen	905
220					9	0	1	4	A	MisL	3,009
40	Aux Vases: MisU	S	2,665	8	4	0	0		A		
20	Ohara: MisL ²⁸	L	2,750	6	0	0	0		AC		
180	McClosky: MisL	L	2,800	7	4	0	1		AC		
20					1	0	0				
20	Pennsylvanian: Pen	S	370	16	1	1	0	1	x	Pen	395
20	Rosiclare: MisL	S	2,790	12	1	0	0	1	ML	MisL	3,925
30					3	0	0	0	M	Dev	2,760
10	Isabel: Pen	S	650	3	1	0	0		ML		
20	Pennsylvanian: Pen	S	1,165	10	2	0	0		ML		
60	Silurian: Sil	L	1,730	11	3	2	0	3	MU	Sil	1,855
23,500					2,080	57	11	1,637	A	Shakopee	7,682
x	Jamestown: Pen	S	720	13	2	0	0		AL		
x	Mansfield: Pen ²⁸	S	x	x	0	0	0		AL		
x	Bridgeport: Pen	S	1,340	7	3	1	0		AL		
x	Biehl: Pen	S	1,850	20	76	1	0		AL		
x	Jordan: Pen ²⁸	S	1,760	x	0	0	0		AL		
x	Degonia: MisU	S	1,925	10	4	0	0		AL		
x	Clare: MisU	S	1,980	10	3	0	0		AL		
220	Palestine: MisU	S	2,000	10	16	0	0		AL		
850	Waltersburg: MisU	S	2,155	20	32	0	0		AL		
1,300	Tar Springs: MisU	S	2,215	26	97	5	3		ALf		
7,900	Cypress: MisU	S	2,570	20	522	7	1		ALf		
x	Paint Creek: MisU	S	2,660	20	18	0	0		ALf		
x	Bethel: MisU	S	2,700	27	482	15	3		ALf		
5,000	Aux Vases: MisU	S	2,800	15	289	8	1		ALf		
x	Ohara: MisL	OL	2,900	6	22	0	0		AC		
x	Rosiclare: MisL	LS	2,910	10	16	1	0		AC		
x	McClosky: MisL	OL	2,925	8	164	4	3		AC		
40	Salem: MisL	L	3,755	6	1	0	0		AC		
					343	15	0				

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1034	New Harmony South (Ill.):	1941	0	2,000	0	77,000
1035	White		0	x	0	x
1036			0	x	0	x
1037			0	0	0	0
1038			0	0	0	x
1039			0	0	0	2,000
1040			0	x	0	x
1041						
1042	New Harmony South (Ind.):	1946	0	24,000	0	443,000
1043	White ⁹⁰		0	x	0	x
1044			0	x	0	x
1045			0	x	0	x
1046						
1047	New Haven Consolidated: White ⁹⁰	1941	70,000	82,000	80,000	913,000
1048			3,000	x	8,000	x
1049			0	x	0	x
1050			67,000	x	72,000	x
1051			0	x	0	x
1052			0	x	0	x
1053						
1054	New Hebron East: Crawford	1954	0	x	0	x
1055	New Memphis: Clinton	1952	0	443,000	0	718,000
1056	New Memphis North: Clinton	1954	0	6,000	0	6,000
1057	New Memphis South: Clinton ⁹¹	1952	0	0	0	1,000
1058	Newton: Jasper	1944	0	1,000	0	73,000
1059	Newton North: Jasper ⁹²	1945	0	0	0	7,000
1060	Newton West: Jasper ⁹³	1947	0	0	0	1,000
1061	Noble West: Clay	1951	0	1,000	0	7,000
1062	Oakley: Macon	1954	0	4,000	0	6,000
1063	Oak Point: Clark	1952	0	20,000	0	20,000
1064			0	0	0	0
1065			0	20,000	0	20,000
1066			0	0	0	x
1067	Oak Point West: Clark	1955	0	x	0	x
1068	Odin: Marion	1945	77,000	77,000	1,093,000	1,498,000
1069	Okawville: Washington	1951	0	3,000	0	26,000
1070	Okawville North: Washington	1955	0	3,000	0	3,000
1071	Old Ripley: Bond	1954	0	53,000	0	54,000
1072	Olney Consolidated: Richland	1938	31,000	129,000	58,000	3,634,000
1073			0	x	0	x
1074			0	x	0	x
1075			31,000	x	58,000	x
1076						
1077	Olney South: Richland ⁹⁴	1937	0	50,000	0	615,000
1078			0	x	0	x
1079			0	x	0	x
1080						
1081	Omaha: Gallatin ⁵	1940	0	131,000	0	2,494,000
1082			0	x	0	x
1083			0	x	0	x
1084			0	x	0	x
1085			0	x	0	x
1086			0	x	0	x
1087			0	x	0	x
1088			0	x	0	x
1089						
1090	Omaha East: Gallatin	1946	0	0	0	10,000
1091			0	0	0	0

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
90	Waltersburg: MisU	S	2,250	18	7	0	0	1	A	MisL	3,207
20	Tar Springs: MisU	S	2,350	16	1	0	0		AF		
10	Cypress: MisU	S	2,670	8	1	0	0		AF		
20	Bethel: MisU	S	2,815	10	1	0	0		AF		
10	Aux Vases: MisU	S	3,005	7	1	0	0		AF		
40	McClosky: MisL	L	3,010	5	1	0	0		AF		
	1				1	0	0				
60					6	0	0	6	T	MisL	3,068
20	Degonia: MisU ²⁸	S	1,850	8	0	0	0		TF		
30	Palestine: MisU	S	1,955	10	1	0	0		TF		
30	Waltersburg: MisU	S	2,120	30	3	0	0		TF		
	1				2	0	0				
360					31	0	0	29	A	MisL	2,980
130	Tar Springs: MisU	S	2,105	12	8	0	0		Af		
10	Hardinsburg: MisU	S	2,245	8	1	0	0		Af		
200	Cypress: MisU	S	2,445	12	11	0	0		Af		
70	Aux Vases: MisU	S	2,720	15	4	0	0		Af		
60	McClosky: MisL	OL	2,820	6	1	0	0		AC		
	1				6	0	0				
30	Aux Vases: MisU	S	1,555	4	3	2	1	0	x	MisL	1,571
700	Silurian: Sil	L	1,980	x	34	10	0	34	R	Sil	2,240
60	Devonian-Silurian	L	2,050	15	3	0	0	3	x	Dev	2,272
20	Silurian: Sil	L	2,000	25	1	0	0	0	x	Sil	2,131
80	Ste. Genevieve: MisL	L	2,950	6	4	0	0	2	MC	MisL	3,040
20	McClosky: MisL	L	2,855	5	1	0	0	0	MC	MisL	2,889
60	McClosky: MisL	L	3,000	7	3	0	0	0	MC	MisL	3,102
20	McClosky: MisL	L	3,035	8	1	0	0	1	x	MisL	3,149
120	Cedar Valley: Dev	L	2,285	5	6	1	2	4	x	Dev	2,321
200					18	16	0	16	M	Dev	2,691
10	Isabel: Pen	S	560	10	1	0	0		ML		
180	Aux Vases: MisU	S	1,185	17	16	16	0		x		
10	Carper: MisL	L	2,220	x	1	0	0		ML		
10	Aux Vases: MisU	S	1,190	8	1	1	0	1	x	MisL	1,560
290	Cypress: MisU	S	1,750	13	29	0	0	28	AL	Dev	3,597
60	Silurian: Sil	L	2,325	3	3	0	0	3	R	Sil	2,603
20	Silurian: Sil	L	2,235	x	1	1	0	1	x	Sil	2,498
610	Pennsylvanian: Pen	S	600	17	49	43	0	49	A	Dev	2,221
2,260					91	1	2	44	A	MisL	3,289
x	Ohara: MisL	L	3,005	6	7	0	0		A		
x	Rosiclare: MisL	L	3,050	5	2	0	0		A		
x	McClosky: MisL	L	3,100	6	80	1	2		A		
	1				2	0	0				
800					36	0	1	32	M	Dev	4,910
700	Rosiclare: MisL	L	3,100	4	15	0	0		MC		
460	McClosky: MisL	L	3,115	3	5	0	0		MC		
	1				16	0	1				
720					54	7	4	45	D	MisL	2,941
210	Jake Creek: Pen	S	375	20	15	1	0		D		
30	Pennsylvanian: Pen	S	580	10	3	2	0		D		
60	Biehl: Pen	S	1,335	10	4	0	0		D		
360	Palestine: MisU	S	1,700	15	24	0	1		D		
80	Tar Springs: MisU	S	1,900	15	6	2	1		D		
10	Bethel: MisU ²⁸	S	2,570	14	0	0	0		D		
20	Aux Vases: MisU	S	2,730	20	1	1	1		D		
	1				1	1	1				
30					2	1	1	0	M	MisL	3,000
10	Aux Vases: MisU	S	2,790	x	1	1	1		M		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1092			0	0	0	10,000
1093	Omaha South: Gallatin, Saline	1951	0	5,000	0	13,000
1094			0	5,000	0	8,000
1095			0	0	0	0
1096			0	500	0	5,000
1097	Omaha West: Saline	1950	0	16,000	0	111,000
1098			0	x	0	x
1099			0	x	0	x
1100			0	0	0	1,000
1101						
1102	Omega: Marion ⁹⁵	1946	0	0	0	5,000
1103	Orchardville: Wayne	1950	0	22,000	0	76,000
1104			0	19,000	0	53,000
1105			0	2,000	0	2,000
1106			0	1,000	0	21,000
1107	Oskaloosa: Clay	1950	194,000	261,000	464,000	1,222,000
1108	Oskaloosa East: Clay ⁹⁶	1947	0	0	0	35,000
1109			0	0	0	7,000
1110			0	0	0	28,000
1111	Oskaloosa South: Clay	1951	0	4,000	0	17,000
1112	Pana: Christian	1951	0	7,000	0	39,000
1113	Panama: Bond, Montgomery ⁵	1940	0	2,000	0	12,000
1114			0	1,000	0	5,000
1115			0	1,000	0	7,000
1116	Parkersburg Consolidated:	1941	32,000	319,000	32,000	9,229,000
1117	Richland, Edwards		0	x	0	x
1118			0	x	0	x
1119			0	x	0	x
1120			0	x	0	x
1121			0	x	0	x
1122			0	x	0	x
1123			32,000	x	32,000	x
1124						
1125	Parkersburg South: Edwards	1948	0	6,000	0	50,000
1126			0	5,000	0	38,000
1127			0	1,000	0	12,000
1128	Parkersburg West: Richland,	1943	0	12,000	0	176,000
1129	Edwards		0	0	0	x
1130			0	12,000	0	x
1131	Passport: Clay	1945	0	77,000	0	2,089,000
1132			0	0	0	x
1133			0	77,000	0	x
1134						
1135	Passport South: Richland	1948	0	5,000	0	58,000
1136			0	5,000	0	39,000
1137			0	0	0	19,000
1138			0	x	0	x
1139	Passport West: Clay	1954	0	14,000	0	39,000
1140	Patoka: Marion	1937	153,000	180,000	7,451,000	11,464,000
1141			10,000	x	46,000	x
1142			78,000	x	6,151,000	x
1143			65,000	x	1,254,000	x
1144			0	x	0	x
1145	Patoka East: Marion	1941	0	100,000	0	3,989,000
1146			0	x	0	x
1147			0	x	0	x
1148			0	x	0	x
1149			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
20	Ohara: MisL	L	2,855	8	1	0	0		MCf		
90					7	4	1	5	N		
20	Cypress: MisU	S	2,535	15	5	3	0		NL	MisL	3,035
10	Aux Vases: MisU	S	2,870	11	1	1	0		N		
20	Rosiclare: MisL	L	2,865	1	1	0	1		NC		
70					6	0	0	4	A	MisL	3,016
50	Cypress: MisU	S	2,600	14	4	0	0		AL		
10	Aux Vases: MisU ²⁸	S	2,800	30	0	0	0		AL		
20	McClosky: MisL	L	2,910	8	1	0	0		AC		
					1	0	0				
40	McClosky: MisL	L	2,490	10	2	0	0	0	D	MisL	2,584
100					8	1	0	8	A	MisL	3,000
60	Aux Vases: MisU	S	2,800	16	5	0	0		AL		
20	Ohara: MisL	L	2,880	3	1	1	0		AC		
40	McClosky: MisL	L	2,905	5	2	0	0		AC		
360	Bethel: MisU	S	2,595	15	36	0	0	35	A	MisL	2,961
40					3	0	0	0	A	MisL	3,050
20	Aux Vases: MisU	S	2,820	5	2	0	0		AL		
20	McClosky: MisL	L	2,895	4	1	0	0		AC		
60	McClosky: MisL	L	2,770	4	3	0	0	3	AC	MisL	2,883
50	Bethel: MisU	S	1,470	8	4	0	0	4	x	Dev	2,847
40					4	0	0	3	A	Dev	2,016
30	Golconda: MisU	L	705	12	3	0	0		A		
10	Bethel: MisU	S	865	12	1	0	0		A		
6,300					273	1	10	159	A	MisL	3,333
80	Waltersburg: MisU	S	2,430	10	8	0	1		A		
160	Cypress: MisU	S	2,830	12	8	0	0		A		
70	Paint Creek: MisU	S	2,955	17	2	0	0		A		
140	Bethel: MisU	S	2,930	12	4	0	0		A		
x	Ohara: MisL	L	3,100	10	2	0	0		A		
x	Rosiclare: MisL	L	3,150	10	42	0	2		A		
5,000	McClosky: MisL	OL	3,175	10	182	0	7		A		
					25	1	0				
80					8	0	0	6	x	MisL	3,187
60	Pennsylvanian: Pen	S	1,400	10	6	0	0		x		
20	Bethel: MisU	S	2,815	5	2	0	0		x		
240					10	0	0	6	A	MisL	3,331
40	Ohara: MisL	L	3,220	5	1	0	0		AC		
200	McClosky: MisL	L	3,260	6	9	0	0		AC		
1,040					56	0	1	39	A	MisL	3,140
40	Rosiclare: MisL	L	3,005	5	1	0	0		AC		
1,040	McClosky: MisL	L	3,020	10	54	0	1		A		
					1	0	0				
70					5	1	0	4	A	MisL	3,692
30	Cypress: MisU	S	2,665	15	3	0	0		AL		
20	Rosiclare: MisL	L	3,025	6	1	0	0		AC		
20	McClosky: MisL	L	3,030	8	1	1	0		AC		
100	Ste. Genevieve: MisL	L	3,030	5	5	0	0	5	AC	MisL	3,130
960					171	0	0	85	D	Dev	3,142
60	Cypress: MisU ²⁸	S	1,280	10	0	0	0		D		
920	Bethel: MisU	S	1,410	27	163	0	0		D		
440	Rosiclare: MisL	S	1,550	9	7	0	0		D		
20	Geneva: Dev	D	2,835	10	1	0	0		D		
600					64	0	1	51	D	Ord	4,178
500	Cypress: MisU	S	1,340	16	54	0	0		D		
60	Bethel: MisU	S	1,465	10	5	0	0		D		
80	McClosky: MisL	L	1,635	8	3	0	1		D		
40	Geneva: Dev	D	2,950	30	2	0	0		R		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1150	Patoka South: Marion	1953	0	90,000	0	199,000
1151	Patoka West: Fayette	1950	0	23,000	0	197,000
1152	Phillipstown Consolidated: White,	1939	196,000	963,000	1,425,000	15,044,000
1153	Edwards		0	x	0	x
1154			0	x	0	x
1155			0	x	0	x
1156			108,000	x	918,000	x
1157			41,000	x	417,000	x
1158			17,000	x	47,000	x
1159			0	x	0	x
1160			0	x	0	x
1161			0	x	0	x
1162			0	x	0	x
1163			30,000	x	43,000	x
1164			0	x	0	x
1165			0	x	0	x
1166			0	x	0	x
1167			0	x	0	x
1168			0	x	0	x
1169			0	x	0	x
1170						
1171	Phillipstown South: White	1951	0	x	0	x
1172			0	x	0	x
1173			0	x	0	x
1174	Pinkstaff: Lawrence ⁹⁷	1951	0	0	0	100
1175	Pinkstaff East: Lawrence	1955	0	0	0	0
1176	Plainview: Macoupin	1942	0	0	0	2,000
1177	Posen: Washington	1952	0	8,000	0	40,000
1178	Posen North: Washington	1953	0	1,000	0	2,000
1179	Posen South: Washington	1955	0	0	0	0
1180	Posey: Clinton	1941	0	0	0	8,000
1181	Posey East: Clinton	1952	0	3,000	0	10,000
1182	Posey West: Clinton ⁹⁸	1954	0	0	0	1,000
1183	Prentice: Morgan ⁵	1953	0	0	0	0
1184	Raccoon Lake: Marion	1949	0	194,000	0	2,438,000
1185			0	x	0	x
1186			0	x	0	x
1187			0	x	0	x
1188			0	x	0	x
1189			0	x	0	x
1190						
1191	Raleigh: Saline	1953	0	212,000	0	475,000
1192			0	x	0	x
1193			0	x	0	x
1194			0	x	0	x
1195						
1196	Raleigh South: Saline	1955	0	55,000	0	55,000
1197	Raymond: Montgomery	1940	0	1,000	0	17,000
1198	Raymond East: Montgomery	1951	0	3,000	0	17,000
1199	Reservoir: Jefferson	1950	0	17,000	0	211,000
1200	Richview: Washington	1946	0	2,000	0	12,000
1201	Ridgway: Gallatin ⁹⁹	1946	0	0	0	100
1202			0	0	0	0
1203			0	0	0	100
1204	Rifle: Clay	1948	0	2,000	0	72,000
1205	Rinard: Wayne ¹⁰⁰	1937	0	0	0	7,000
1206	Rinard North: Wayne	1952	0	26,000	0	172,000
1207			0	0	0	0

OIL PRODUCTION

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(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
320	Cypress: MisU	S	1,350	10	27	2	0	26	A	MisL	1,728
180	Bethel: MisU	S	1,380	6	17	0	0	13	A	MisL	1,735
5,700					424	40	6	340	A	Dev	5,350
10	Anvil Rock: Pen	S	795	10	1	0	0		Af		
x	Clark-Bridgeport: Pen	S	1,350	10	13	0	0		Af		
x	Pennsylvanian: Pen	S	1,450	10	9	0	0		Af		
x	Buchanan: Pen	S	1,550	15	23	0	1		Af		
x	Biehl: Pen	S	1,875	15	43	1	1		Af		
450	Degonia: MisU	S	1,975	15	35	2	0		Af		
120	Clore: MisU	S	2,010	12	4	0	0		Af		
60	Palestine: MisU	S	2,050	11	1	0	1		Af		
50	Waltersburg: MisU	S	2,280	11	4	0	0		Af		
900	Tar Springs: MisU	S	2,295	15	60	0	0		Af		
430	Cypress: MisU	S	2,720	12	21	3	1		Af		
50	Paint Creek: MisU	S	2,780	9	4	1	0		Af		
670	Bethel: MisU	S	2,810	15	45	13	0		Af		
660	Aux Vases: MisU	S	2,880	15	30	1	0		Af		
400	Ohara: MisL	L	3,010	10	14	5	0		ACf		
360	Rosiclare: MisL	LS	2,960	10	12	4	0		ACf		
1,040	McClosky: MisL	L	3,000	6	44	0	2		ACf		
					61	10	0				
20					2	0	0	1	M	MisL	3,161
10	Tar Springs: MisU	S	2,345	10	1	0	0		Mf		
10	Aux Vases: MisU	S	2,985	10	1	0	0		Mf		
20	McClosky: MisL	L	1,735	4	1	0	0	0	x	MisL	1,797
20	McClosky: MisL	L	1,640	6	1	1	0	1	x	MisL	1,644
10	Pennsylvanian: Pen	S	410	5	1	0	0	0	x	Pen	421
80	Trenton: Ord	L	3,900	25	4	0	0	4	A	Ord	3,954
10	Trenton: Ord	L	4,015	15	1	0	0	1	AC	Ord	4,112
10	Bethel: MisU	S	1,255	2	1	1	0	1	x	MisU	1,300
20	Cypress: MisU	S	1,105	5	2	0	0	1	M	Sil	2,729
40	Devonian: Dev	L	2,740	8	2	0	0	2	x	Dev	2,770
10	Devonian: Dev	L	2,585	15	1	0	0	0	x	Dev	2,604
20	Pennsylvanian: Pen	S	270	10	2	0	0	0	x	Pen	325
400					47	0	2	44	D	Sil	3,530
190	Cypress: MisU	S	1,625	10	18	0	2		D		
20	Ohara: MisL ²⁸	L	1,885	5	0	0	0		DC		
200	Rosiclare: MisL	S	1,930	12	2	0	0		DC		
260	McClosky: MisL	L	1,950	10	4	0	0		DC		
300	Devonian and Silurian	L	3,330	10	15	0	0		R		
					8	0	0				
380					36	0	0	36	A	MisL	3,106
10	Tar Springs: MisU ²⁸	S	2,235	20	0	0	0		A		
380	Cypress: MisU	S	2,550	12	34	0	0		A		
10	Aux Vases: MisU ²⁸	S	2,905	5	0	0	0		A		
					2	0	0				
60	Aux Vases: MisU	S	2,860	16	6	6	0	6	x	MisL	3,092
100	Pottsville: Pen	S	590	10	10	0	1	2	ML	Dev	2,049
60	Pennsylvanian: Pen	S	595	10	5	0	0	5	x	MisL	1,008
200	McClosky: MisL	L	2,700	6	10	0	1	7	MC	MisL	2,808
20	Cypress: MisU	S	1,520	7	3	1	1	1	AL	MisL	1,932
30					2	1	0	0	MC	MisL	2,938
10	Palestine: MisU	S	1,730	18	1	1	0		ML		
20	McClosky: MisL	L	2,840	6	1	0	0		MC		
100	Rosiclare: MisL	L	2,735	7	5	0	0	4	MC	MisL	2,848
20	McClosky: MisL	L	3,145	5	1	0	0	0	AC	MisL	3,280
200					10	0	0	8	M	MisL	3,280
20	Rosiclare: MisL	L	3,135	6	1	0	0		MC		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1208			0	26,000	0	172,000
1209	Ritter: Richland	1950	0	5,000	0	106,000
1210	Ritter North: Richland	1951	0	4,000	0	25,000
1211	Roaches: Jefferson	1938	0	8,000	0	586,000
1212			0	x	0	x
1213			0	x	0	x
1214			0	x	0	x
1215			0	x	0	x
1216	Roaches North: Jefferson	1944	0	30,000	0	1,296,000
1217			0	x	0	x
1218			0	x	0	x
1219						
1220	Roby: Sangamon ¹⁰¹	1949	0	x	0	x
1221	Rochester: Wabash ⁹⁰	1948	0	79,000	0	740,000
1222			0	x	0	x
1223			0	x	0	x
1224						
1225	Roland Consolidated: White, Gallatin ^{5,102}	1940	512,000	2,775,000	1,442,000	28,663,000
1226			0	x	0	x
1227			0	x	0	x
1228			187,000	x	307,000	x
1229			0	x	0	x
1230			325,000	x	1,135,000	x
1231			0	x	0	x
1232			0	x	0	x
1233			0	x	0	x
1234			0	x	0	x
1235			0	x	0	x
1236			0	x	0	x
1237			0	x	0	x
1238			0	x	0	x
1239			0	x	0	x
1240						
1241	Roland West: Saline	1950	0	0	0	22,000
1242	Ruark: Lawrence	1941	0	117,000	0	2,050,000
1243			0	x	0	x
1244			0	x	0	x
1245			0	0	0	0
1246	Ruark West Consolidated: Lawrence	1947	0	131,000	0	566,000
1247			0	x	0	x
1248			0	x	0	x
1249			0	x	0	x
1250			0	x	0	x
1251			0	x	0	x
1252			0	x	0	x
1253						
1254	Rural Hill North: Hamilton ¹⁰³	1949	0	0	0	1,000
1255	Russellville (gas): Lawrence ⁵	1937	0	1,000	0	11,000
1256	Russellville West: Lawrence	1955	0	1,000	0	1,000
1257	St. Francisville East: Lawrence	1941	0	22,000	0	290,000
1258			0	x	0	x
1259			0	x	0	x
1260			0	x	0	x
1261			0	x	0	x
1262			0	x	0	x
1263	St. Jacob: Madison	1942	0	70,000	0	2,741,000
1264	St. Jacob East: Madison	1955	0	1,000	0	1,000
1265	St. James: Fayette	1938	29,000	380,000	55,000	13,336,000

OIL PRODUCTION

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
200	McClosky: MisL	L	3,140	5	9	0	0	0	MC		
80	Ste. Genevieve: MisL	L	3,215	5	5	0	0	2	x	MisL	3,288
40	McClosky: MisL	L	3,215	5	2	0	0	1	x	MisL	3,288
200					13	0	0	4	A	Dev	3,840
30	Bethel: MisU ²⁸	S	2,000	x	0	0	0		AL		
60	Ohara: MisL	L	2,170	5	2	0	0		AC		
160	Rosiclare: MisL	L	2,190	12	5	0	0		AC		
120	McClosky: MisL	L	2,250	4	6	0	0		AC		
350					34	0	0	29	A	MisL	2,283
350	Bethel: MisU	S	1,925	7	32	0	0		A		
60	Rosiclare: MisL	L	2,115	8	1	0	0		AC		
40	Silurian: Sil	L	1,775	5	2	0	0	1	MU	Sil	1,822
270					36	2	1	26	M	MisL	2,810
130	Pennsylvanian: Pen	S	1,300	16	11	0	1		MCF		
180	Waltersburg: MisU	S	1,940	20	22	1	0		ML		
8,600					3	1	0				
50	Pennsylvanian: Pen	S	1,410	10	794	88	7	664	A	Dev	5,225
20	Palestine: MisU	S	2,085	2	4	0	0		A		
2,000	Waltersburg: MisU	S	2,200	15	2	0	0		A		
320	Tar Springs: MisU	S	2,300	15	111	0	0		AL		
1,500	Hardinsburg: MisU	S	2,300	15	20	0	0		AL		
10	Golconda: MisU ²⁸	S	2,550	20	137	2	0		AL		
1,300	Cypress: MisU	S	2,505	5	0	0	0		A		
300	Paint Creek: MisU	S	2,700	15	87	11	4		AL		
1,000	Bethel: MisU	S	2,800	12	18	3	0		AL		
2,250	Aux Vases: MisU	S	2,800	12	56	7	1		AL		
500	Ohara: MisL	OL	2,880	13	175	46	1		AL		
600	Rosiclare: MisL	L	3,020	6	13	4	0		AC		
1,500	McClosky: MisL	L	3,050	6	15	2	0		AC		
20	St. Louis: MisL ²⁸	L	3,070	6	59	5	0		AC		
10					x	x	0		AC		
290	Aux Vases: MisU	S	2,935	15	97	8	1	0	ML	MisL	3,161
250					29	3	0	21	A	MisL	2,442
20	Pennsylvanian: Pen	S	1,600	10	26	2	0		AL		
20	Bethel: MisU	S	2,065	11	2	1	0		AL		
550	Ohara: MisL	L	2,275	5	1	0	0		AC		
50	Waltersburg: MisU	S			50	5	0	45	M	MisL	2,633
10	Cypress: MisU ²⁸	S	1,780	10	6	2	0		ML		
380	Bethel: MisU	S	2,165	9	0	0	0		ML		
80	Ohara: MisL ²⁸	L	2,220	20	27	2	0		ML		
40	Rosiclare: MisL	S	2,350	5	0	0	0		MC		
280	McClosky: MisL	L	2,390	5	1	0	0		MC		
20					3	5	1	0	MC		
40	Rosiclare: MisL	L	3,325	8	11	0	0	0	MC	MisL	3,468
20	McClosky: MisL ²⁸	L	1,560	7	0	0	0	1	AC	Dev	3,133
240	Rosiclare: MisL	L	1,565	22	1	1	0	1	x	MisL	1,646
10					19	1	0	19	A	MisL	1,960
10	Pennsylvanian: Pen	S	1,305	2	1	0	0		AL		
40	Waltersburg: MisU	S	1,300	6	1	1	0		AL		
220	Hardinsburg: MisU	S	1,460	6	3	0	0		AL		
1,120	Cypress: MisU	S	1,605	15	1	0	0		AL		
20	Bethel: MisU	S	1,750	20	13	0	0		A		
20	Trenton: Ord	L	2,260	17	53	0	0	40	A	Ord	2,549
1,860	Hardin: MisL	S	1,840	x	1	1	0	1	x	Ord	2,600
					191	0	0	135	A	Dev	3,457

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1266			0	0	0	x
1267			29,000	x	55,000	x
1268			0	x	0	x
1269						
1270	St. Paul: Fayette	1941	0	15,000	0	550,000
1271			0	15,000	0	550,000
1272			0	0	0	0
1273	Ste. Marie: Jasper	1941	21,000	37,000	126,000	834,000
1274	Ste. Marie East: Jasper ¹⁰⁴	1949	0	0	0	1,000
1275	Ste. Marie West: Jasper	1949	0	9,000	0	97,000
1276			0	x	0	x
1277			0	x	0	x
1278	Sailor Springs Central: Clay	1948	0	0	0	1,500
1279			0	0	0	500
1280			0	0	0	1,000
1281	Sailor Springs Consolidated: Clay, Effingham ¹¹⁸	1938	38,000	1,688,000	67,000	25,896,000
1282			0	x	0	x
1283			0	x	0	x
1284			12,000	x	29,000	x
1285			0	x	0	x
1286			11,000	x	20,000	x
1287			0	x	0	x
1288			x	x	x	x
1289			x	x	x	x
1290						
1291	Sailor Springs East: Clay ¹⁰⁵	1944	0	0	0	62,000
1292			0	0	0	62,000
1293			0	0	0	0
1294	Sailor Springs North: Clay ¹⁰⁶	1948	0	1,000	0	2,000
1295			0	0	0	500
1296			0	1,000	0	1,500
1297	Salem Consolidated: Marion, Jefferson	1938	5,523,000	7,610,000	9,007,000	245,824,000
1298			4,606,000	x	6,906,000	x
1299			120,000	x	283,000	x
1300				x		x
1301			0	x	0	x
1302			6,000	x	62,000	x
1303			701,000	x	1,433,000	x
1304			0	x	0	x
1305			0	x	0	x
1306			85,000	x	323,000	x
1307			0	x	0	x
1308						
1309	Samsville: Edwards ¹⁰⁷	1942	0	0	0	1,000
1310	Samsville North: Edwards	1945	3,000	14,000	3,000	208,000
1311	Samsville Northwest: Edwards	1955	0	3,000	0	3,000
1312	Samsville West: Edwards	1951	0	9,000	0	124,000
1313			0	x	0	x
1314			0	x	0	x
1315			0	x	0	x
1316	Sandoval West: Clinton	1946	0	1,000	0	24,000
1317	Santa Fe: Clinton ¹⁰⁸	1944	0	0	0	2,000
1318	Schnell: Richland	1938	0	4,000	0	237,000
1319	Schnell East: Richland ¹⁰⁹	1954	0	0	0	500
1320	Schnell South: Clay	1951	0	1,000	0	10,000
1321	Seminary: Richland	1945	6,000	13,000	14,000	199,000
1322	Sesser: Franklin	1942	0	88,000	0	923,000

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
10	Golconda: MisU ²⁸	L	1,555	15	0	0	0		A		
1,860	Cypress: MisU	S	1,580	16	189	0	0		A		
20	Rosiclare: MisL	L	1,860	16	1	0	0		A		
					1	0	0				
260					18	0	0	14	A	Dev	3,570
240	Bethel: MisU	S	1,900	9	17	0	0		A		
20	Rosiclare: MisL	L	2,080	6	1	0	0		A		
800	McClosky: MisL	L	2,860	8	25	0	0	17	AC	MisL	3,034
80	McClosky: MisL	L	2,685	10	4	0	0	0	MC	MisL	3,018
80					4	0	0	4	M	MisL	2,968
10	Aux Vases: MisU ²⁸	S	2,720	25	0	0	0		ML		
80	McClosky: MisL	L	2,815	6	4	0	0		MC		
40					3	1	1	0	M	Mis	3,128
20	Tar Springs: MisU	S	2,330	6	2	1	1		ML		
20	Rosiclare: MisL	L	3,015	4	1	0	0		MC		
13,000					820	65	17	691	A	MisL	3,460
700	Tar Springs: MisU	S	2,340	12	46	0	0		A		
10	Glen Dean: MisU ²⁸	L	2,390	8	0	0	0		A		
7,800	Cypress: MisU	S	2,550	12	426	38	4		A		
330	Bethel: MisU	S	2,740	20	17	2	2		A		
700	Aux Vases: MisU	S	2,825	13	53	12	2		A		
240	Ohara: MisL	OL	2,900	6	4	0	0		A		
1,500	Rosiclare: MisL	LS	2,900	8	54	3	3		A		
3,800	McClosky: MisL	OL	2,925	8	162	0	6		A		
					58	10	0				
110					10	1	0	1	D	MisL	3,168
90	Cypress: MisU	S	2,695	8	9	0	0		D		
20	McClosky: MisL	L	3,020	7	1	1	0		D		
60					3	1	0	1	M	MisL	3,126
20	Rosiclare: MisL	L	2,985	2	1	0	0		MC		
20	McClosky: MisL	L	3,030	2	2	1	0		MC		
14,400					2,759	19	10	2,194	A	St. Peter	5,655
x	Bethel: MisU	S	1,780	40	599	1	0		A		
x	Renault: MisU ²⁸	S	x	x	0	0	0		A		
x	Aux Vases: MisU	S	1,825	40	154	0	0		A		
x	Ohara: MisL	L	2,075	3	2	0	0		A		
x	Rosiclare: MisL	LS	2,100	15	132	11	3		A		
x	McClosky: MisL	L	2,050	17	586	2	5		A		
x	St. Louis: MisL ²⁸	L	2,100	x	0	0	0		A		
x	Salem: MisL	L	2,160	17	8	0	0		A		
5,860	Devonian: Dev	L	3,440	40	541	0	0		A		
2,160	Trenton: Ord	L	4,500	50	2	0	0		A		
					735	5	2				
30	Waltersburg: MisU	S	2,420	7	3	0	0	0	A	MisL	3,303
180	Paint Creek-Bethel: MisU	S	2,900	6	16	2	0	6	A	MisL	3,220
20	Ohara: MisL	L	3,190	4	1	1	0	1	x	MisL	3,248
120					5	0	0	5	x	MisL	3,425
60	Ohara: MisL	L	3,260	6	3	0	0		x		
40	Rosiclare: MisL ²⁸	L	3,275	6	0	0	0		x		
40	McClosky: MisL	L	3,275	6	2	0	0		x		
10	Cypress: MisU	S	1,420	4	1	0	0	1	A	MisU	1,560
10	Cypress: MisU	S	955	10	1	0	0	0	A	Dev	2,512
80	McClosky: MisL	OL	3,000	5	4	0	0	2	AC	MisL	3,130
20	McClosky: MisL	L	3,115	4	1	0	0	0	AC	MisL	3,150
60	Rosiclare: MisL	L	3,005	4	3	0	1	1	AC	MisL	3,109
160	McClosky: MisL	L	3,195	8	8	0	0	6	MC	MisL	3,330
450					36	2	0	28	A	Dev	4,688

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1323			0	x	0	x
1324			0	x	0	x
1325			0	x	0	x
1326			0	x	0	x
1327			0	x	0	x
1328			0	x	0	x
1329						
1330	Shattuc: Clinton	1945	0	28,000	0	478,000
1331			0	x	0	x
1332			0	x	0	x
1333			0	x	0	x
1334	Shawneetown: Gallatin ¹¹⁰	1945	0	1,000	0	1,000
1335			0	x	0	x
1336			0	x	0	x
1337			0	x	0	x
1338			0	0	0	500
1339						
1340	Shawneetown East: Gallatin	1952	0	2,000	0	10,000
1341			0	x	0	x
1342			0	1,000	0	1,000
1343			0	2,000	0	10,000
1344	Shawneetown North: Gallatin ¹¹¹	1948	0	18,000	0	25,000
1345			0	18,000	0	18,000
1346			0	0	0	6,000
1347	Shelbyville: Shelby	1946	0	2,000	0	24,000
1348	Shelbyville East: Shelby ¹¹²	1952	0	0	0	2,000
1349	Sorento: Bond ¹¹³	1938	0	184,000	0	220,000
1350	Sparta South: Randolph ¹¹⁴	1949	0	0	0	0
1351	Stanford South: Clay	1946	197,000	200,000	275,000	595,000
1352			197,000	x	275,000	x
1353			0	x	0	x
1354	Staunton: Macoupin	1952	0	500	0	1,000
1355	Staunton West: Macoupin	1954	0	500	0	500
1356	Stewardson: Shelby	1939	0	9,000	0	152,000
1357	Storms Consolidated: White ⁵	1939	0	254,000	0	7,780,000
1358			0	x	0	x
1359			0	x	0	x
1360			0	x	0	x
1361			0	x	0	x
1362			0	x	0	x
1363			0	x	0	x
1364			0	x	0	x
1365			0	x	0	x
1366						
1367	Stringtown: Richland	1941	9,000	50,000	28,000	1,329,000
1368	Stringtown East: Richland ¹¹⁵	1948	0	0	0	2,000
1369	Stubblefield South: Bond	1955	0	x	0	x
1370	Sumner: Lawrence	1944	0	0	0	16,000
1371	Sumpter: White	1945	0	22,000	0	142,000
1372			0	x	0	x
1373			0	x	0	x
1374			0	x	0	x
1375						
1376	Sumpter East: White	1951	0	153,000	0	470,000
1377			0	x	0	x
1378			0	x	0	x
1379			0	x	0	x
1380			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Character ^b	Depth to top (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
						Completed	Abandoned	Producing end of year			
20	Cypress: MisU	S	2,455	5	2	0	0		AL		
120	Renault: MisU	L	2,960	10	10	0	0		AC		
200	Aux Vases: MisU	S	2,700	10	15	2	0		AL		
80	Rosiclare: MisL	L	2,810	10	2	0	0		AC		
100	McClosky: MisL	L	2,840	5	2	0	0		AC		
60	Clear Creek: Dev	L	4,360	x	2	0	0		AC		
340					3	0	0				
160	Cypress: MisU	S	1,280	7	28	0	0	25	A	Ord	4,078
10	Bethel: MisU	S	1,420	13	12	0	0		AL		
240	Trenton: Ord	L	4,020	13	15	0	0		A		
30					3	2	0	2	M	MisL	2,837
10	Palestine: MisU ²⁸	S	1,720	28	0	0	0		M		
10	Waltersburg: MisU ²⁸	S	1,900	12	0	0	0		M		
20	Tar Springs: MisU	S	1,960	x	1	1	0		M		
10	Aux Vases: MisU	S	2,650	10	1	0	0		MF		
30					1	1	0				
10	Waltersburg: MisU	S	1,855	10	3	2	0	3	x	MisL	2,830
10	Bethel: MisU	S	2,480	x	1	1	0		x		
10	Aux Vases: MisU	S	2,660	9	1	0	0		x		
50					4	3	0	3	MF	MisL	3,091
30	Aux Vases: MisU	S	2,750	20	3	3	0		MF		
20	McClosky: MisL	L	3,045	6	1	0	0		MF		
60	Aux Vases: MisU	S	1,860	15	5	0	0	1	A	MisL	3,119
10	Aux Vases: MisU	S	1,810	8	1	0	1	0	A	MisL	3,301
270	Lingle: Dev	S	1,850	4	20	13	0	14	AL	Ord	2,680
10	Cypress: MisU	S	880	8	1	0	0	0	A	MisU	900
240					20	2	0	14	A	MisL	3,247
160	Aux Vases: MisU	S	2,970	12	15	2	0		AL		
100	McClosky: MisL	L	3,090	3	5	0	0		AC		
10	Pennsylvanian: Pen	S	515	11	1	0	0	1	A	Ord	2,371
10	Pennsylvanian: Pen	S	505	10	1	0	0	1	x	Pen	535
60	Aux Vases: MisU	S	1,945	9	6	0	0	5	A	MisL	2,138
3,340					223	5	1	162	AM	MisL	3,267
30	Degonia: MisU	S	1,990	7	1	0	1		Mf		
10	Clare: MisU ²⁸	S	2,035	8	0	0	0		Mf		
2,120	Waltersburg: MisU	S	2,230	15	196	2	0		AL		
70	Tar Springs: MisU	S	2,340	10	4	0	0		Mf		
80	Cypress: MisU	S	2,700	10	4	1	0		Mf		
10	Bethel: MisU	S	2,810	x	1	0	0		Mf		
100	Aux Vases: MisU	S	2,900	10	6	1	0		Mf		
120	Ste. Genevieve: MisL	L	3,055	5	6	1	0		MC		
800					6	0	0				
20	Ste. Genevieve: MisL	OL	3,025	8	32	0	1	26	AC	MisL	3,401
20	McClosky: MisL	L	3,010	4	1	0	0	0	x	MisL	3,144
10	Cypress: MisU	S	985	4	1	1	0	1	x	Dev	2,455
40	McClosky: MisL	L	2,260	4	2	0	0	0	MC	MisL	2,365
120					11	0	0	9	A	MisL	3,379
80	Tar Springs: MisU	S	2,575	18	6	0	0		Af		
10	Hardinsburg: MisU	S	2,655	14	1	0	0		Af		
40	Cypress: MisU	S	2,860	15	3	0	0		Af		
400					1	0	0				
20	Cypress: MisU	S	2,795	16	29	0	1	27	A	MisL	3,305
200	Aux Vases: MisU	S	3,020	15	2	0	1		AL		
120	Ohara: MisL	L	3,115	12	10	0	0		AL		
200	Rosiclare: MisL	L	3,140	4	3	0	0		AC		
					4	0	0		AC		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1381			0	x	0	x
1382						
1383	Sumpter North: White	1952	0	79,000	0	119,000
1384	Sumpter South: White	1948	0	13,000	0	135,000
1385	Sumpter West: White	1952	0	3,000	0	11,000
1386	Tamaroa: Perry ⁵	1942	0	20,000	0	167,000
1387	Taylor Hill: Franklin	1949	0	5,000	0	34,000
1388	Thackeray: Hamilton	1944	0	123,000	0	2,527,000
1389			0	2,000	0	2,000
1390			0	x	0	x
1391			0	x	0	x
1392			0	x	0	x
1393						
1394	Thompsonville: Franklin ¹¹⁶	1940	0	0	0	285,000
1395	Thompsonville East: Franklin	1949	13,000	27,000	11,000	223,000
1396	Thompsonville North: Franklin	1944	18,000	42,000	19,000	1,577,000
1397			0	0	0	x
1398			0	42,000	0	x
1399	Tilden: Randolph	1952	0	300,000	0	1,591,000
1400	Toliver East: Clay	1943	0	4,000	0	206,000
1401			0	x	0	x
1402			0	1,000	0	12,000
1403			0	3,000	0	194,000
1404	Toliver South: Clay	1953	0	4,000	0	9,000
1405	Tonti: Marion	1938	26,000	194,000	36,000	10,563,000
1406			26,000	x	36,000	x
1407			0	x	0	x
1408			0	x	0	x
1409			0	x	0	x
1410			0	x	0	x
1411						
1412	Tovey: Christian	1955	0	1,000	0	1,000
1413	Trumbull: White	1944	0	68,000	0	724,000
1414			0	x	0	x
1415			0	x	0	x
1416			0	x	0	x
1417			0	x	0	x
1418			0	x	0	x
1419						
1420	Trumbull West: White	1953	0	1,000	0	3,000
1421	Valier: Franklin	1942	0	0	0	2,000
1422	Waggoner: Montgomery	1940	0	x	0	11,000
1423	Wakefield: Jasper ¹¹⁷	1946	0	0	0	2,000
1424	Wakefield North: Jasper	1953	0	2,000	0	17,000
1425	Wakefield South: Jasper	1955	0	0	0	0
1426	Walpole: Hamilton	1941	0	137,000	0	5,647,000
1427			0	x	0	x
1428			0	x	0	x
1429			0	2,000	0	6,000
1430	Walpole South: Hamilton	1951	0	11,000	0	102,000
1431	Waltonville: Jefferson	1943	0	3,000	0	101,000
1432	Wamac East: Marion	1952	0	4,000	0	15,000
1433	Waverly: Morgan ⁵	1946	0	0	0	0
1434	Weaver: Clark	1949	0	131,000	0	1,193,000
1435			0	x	0	x
1436			0	x	0	x
1437	West Frankfort: Franklin	1941	0	117,000	0	2,782,000
1438			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
40	McClosky: MisL ₁	L	3,150	5	1	0	0		AC		
120	Aux Vases: MisU	S	3,185	3	11	7	0	10	NL	MisL	3,425
110	Tar Springs: MisU	S	2,580	8	9	0	0	9	Af	MisL	3,430
10	Aux Vases: MisU	S	3,165	5	1	0	0	1	NL	MisL	3,336
150	Cypress: MisU	S	1,120	13	14	0	0	11	AL	MisL	1,630
60	Ohara: MisL	L	3,055	4	3	0	0	2	x	MisL	3,227
660	Cypress: MisU	S	3,030	24	59	3	0	52	A	MisL	3,660
10	Aux Vases: MisU	S	3,360	15	55	2	0		AL		
640	Ohara: MisL ²³	L	3,435	5	0	0	0		AC		
x	McClosky: MisL ₁	L	3,500	10	2	1	0		AC		
240	McClosky: MisL	L	3,120	10	19	0	0	0	A	MisL	3,455
80	Aux Vases: MisU	S	3,150	8	8	2	0	8	ML	MisL	3,371
550	Cypress: MisU	S	2,750	10	71	0	0	50	A	MisL	3,365
20	Aux Vases: MisU	S	3,100	20	1	0	0		AL		
540	Silurian: Sil	L	2,160	60	70	0	0		AL		
500	Cypress: MisU	S	2,510	14	24	2	0	24	R	Ord	3,093
90	Rosiclare: MisL	L	2,815	6	5	1	0	5	M	MisL	2,965
10	McClosky: MisL	OL	2,840	8	1	0	0		MC		
20	Aux Vases: MisU	S	2,765	x	3	0	0		MC		
670	Bethel: MisU	S	1,930	20	95	0	0	79	D	MisL	2,880
x	Aux Vases: MisU	S	2,005	30	0	0	0		D	Ord	4,900
x	Rosiclare: MisL	LS	2,125	12	1	0	0		D		
x	McClosky: MisL	OL	2,130	15	56	0	0		D		
80	Devonian: Dev ₁	L	3,500	7	7	0	0		R		
20	Silurian: Sil	L	1,850	10	6	0	0				
460	Cypress: MisU	S	2,845	10	34	3	1	23	A	MisL	1,881
140	Aux Vases: MisU	S	3,170	9	13	2	0		A		3,462
110	Ohara: MisL ²³	L	3,230	15	0	0	0		A		
40	Rosiclare: MisL	L	3,270	6	1	0	0		AC		
220	McClosky: MisL ₁	L	3,290	5	9	0	1		AC		
10	Aux Vases: MisU	S	3,120	x	3	1	0	1	x	MisL	3,330
20	McClosky: MisL	L	2,715	12	1	0	0	0	ML	MisL	2,725
40	Pottsville: Pen	S	610	10	4	0	0	0	x	Dev	1,893
40	Rosiclare: MisL	L	3,100	5	2	0	0	0	x	MisL	3,207
20	McClosky: MisL	L	3,000	6	1	0	0	1	x	MisL	3,204
20	McClosky: MisL	L	3,040	4	1	1	1	0	x		
1,740	Tar Springs: MisU	S	2,465	15	98	0	1	93	A	MisL	3,390
90	Aux Vases: MisU	S	3,070	20	6	0	0		AL		
1,640	Rosiclare: MisL	L	3,195	7	91	0	1		A		
20	Aux Vases: MisU	S	3,120	6	1	0	0	2	AC		
20	Bethel: MisU	S	2,460	9	2	0	0	2	AL	MisL	3,362
40	Wilson: Pen	S	845	15	4	0	0	3	A	MisL	2,905
40	Devonian-Silurian	L	1,020	10	4	0	0	4	ML	MisL	2,216
680	Cole: MisL	L	1,565	5	1	0	0	0	A	Ord	1,534
20	Devonian: Dev	L	2,030	10	38	0	1	29	R	Dev	2,135
680	Tar Springs: MisU	S	2,060	20	37	0	1	63	R		
1,040					70	4	1		A	MisL	3,156
470					35	0	0		A		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1439			0	x	0	x
1440			0	x	0	x
1441			0	x	0	x
1442			0	x	0	x
1443						
1444	Westfield East: Clark	1947	0	x	0	x
1445	Westfield North: Coles	1949	0	0	0	400
1446			0	0	0	400
1447			0	0	0	0
1448	Whittington: Franklin	1939	0	189,000	0	653,000
1449			0	x	0	x
1450			0	x	0	x
1451			0	x	0	x
1452			0	x	0	x
1453			0	x	0	x
1454			0	x	0	x
1455			0	x	0	x
1456						
1457	Whittington South: Franklin	1950	0	29,000	0	273,000
1458	Whittington West: Franklin	1943	0	7,000	0	195,000
1459			0	x	0	x
1460			0	x	0	x
1461			0	x	0	x
1462			0	x	0	x
1463			0	x	0	x
1464						
1465	Williams Consolidated: Jefferson	1948	0	108,000	0	563,000
1466			0	x	0	x
1467			0	x	0	x
1468			0	x	0	x
1469						
1470	Willow Hill East: Jasper	1946	0	6,000	2,000	224,000
1471	Woburn Consolidated: Bond	1940	1,000	746,000	11,000	1,841,000
1472			0	x	0	x
1473			1,000	x	11,000	x
1474			0	x	0	x
1475			0	x	0	x
1476	Woodlawn: Jefferson	1940	0	367,000	0	13,895,000
1477			0	x	0	x
1478			0	x	0	x
1479			0	x	0	x
1480			0	x	0	x
1481			0	x	0	x
1482			0	x	0	x
1483			0	x	0	x
1484	Xenia: Clay	1941	0	1,000	0	31,000
1485	Xenia East: Clay	1951	0	49,000	0	340,000
1486			0	x	0	x
1487			0	x	0	x
1488	Zenith: Wayne	1948	0	1,000	0	24,000
1489	Zenith North: Wayne	1951	0	68,000	0	688,000
1490			0	x	0	x

(continued)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^c	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Comple-ted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
80	Aux Vases: MisU	S	2,710	20	6	4	0		AL		
480	Ohara: MisL	L	2,760	8	11	0	1		AC		
60	Rosiclare: MisL ²⁸	L	2,810	8	0	0	0		AC		
280	McClosky: MisL ₁	L	2,825	14	6	0	0		AC		
110	Pennsylvanian: Pen	S	400	11	12	0	0				
20					13	0	4	5	ML	Pen	678
10	Pleasantview: Pen	S	275	5	2	0	0	0	x	Pen	611
10	Pennsylvanian: Pen	S	490	10	1	0	0	0	x		
480					31	6	0	27	x		
80	Hardinsburg: MisU	S	2,310	10	6	0	0		A	MisL	3,130
60	Cypress: MisU	S	2,535	10	5	0	0		A		
30	Aux Vases: MisU	S	2,735	15	3	2	0		A		
160	Ohara: MisL	L	2,835	10	8	2	0		AC		
20	Rosiclare: MisL	L	2,880	10	1	0	0		AC		
100	McClosky: MisL	L	2,870	9	5	2	0		AC		
40	St. Louis: MisL ₁	L	3,080	6	1	0	0		AC		
100					2	0	0				
240	Cypress: MisU	S	2,580	10	10	0	0	10	A	Dev	4,810
10					13	0	0	4	A	MisL	2,942
140	Bethel: MisU	S	2,615	10	1	0	0		AL		
100	Aux Vases: MisU	S	2,680	15	4	0	0		AL		
20	Ohara: MisL	L	2,800	5	1	0	0		AC		
40	Rosiclare: MisL ²⁸	L	2,780	4	0	0	0		AC		
40	McClosky: MisL ₁	L	2,900	6	1	0	0		AC		
380					6	0	0				
170	Bethel: MisU	S	2,490	10	39	4	0	38	A	Dev	4,578
260	Aux Vases: MisU	S	2,550	5	11	0	0		AL		
20	McClosky: MisL ²⁸	L	x	x	25	4	0		AL		
320					3	0	0		AC		
1,420	McClosky: MisL	L	2,645	6	18	0	0	8	A	MisL	3,281
220					106	34	0	92	A	Ord	3,279
270	Cypress: MisU	S	865	8	20	0	0		AL		
820	Bethel: MisU	S	1,020	10	31	1	3		AL		
320	Lingle: Dev	S	2,275	8	39	33	0		AC		
1,980	Trenton: Ord	L	3,170	12	15	0	0		AC		
20					190	2	7	126	A	Ord	5,101
80	Tar Springs: MisU ²⁸	S	x	x	0	0	0		AL		
1,900	Cypress: MisU	S	1,800	10	3	0	0		AL		
240	Bethel: MisU	S	1,960	25	172	0	7		A		
300	Aux Vases: MisU ²⁸	S	1,975	10	0	0	0		A		
20	Rosiclare: MisL	LS	2,205	15	4	2	0		A		
240	McClosky: MisL ²⁸	L	2,200	3	0	0	0		A		
10	Lingle: Dev	S	3,690	6	11	0	0		A		
160	Aux Vases: MisU	S	2,785	13	1	0	0	1	A	Dev	4,698
150					15	0	0	15	A	MisL	3,011
10	Cypress: MisU	S	2,500	6	14	0	0		AL		
40	Bethel: MisU	S	2,710	6	1	0	0		AL		
260	McClosky: MisL	L	2,970	7	2	0	0	1	AC	MisL	3,059
240					13	0	0	13	N	MisL	3,210
	Rosiclare: MisL	L	3,080	6	8	0	0		NC		

TABLE 12.—

Line No.	Pool: County	Year of discovery	Oil Production (bbls.)			
			During 1955		To End of 1955	
			Secondary recovery	Total	Secondary recovery	Total
1491	Zenith South: Wayne	1949	0	x	0	x
1492						
1493			0	13,000	0	728,000
1494			0	x	0	x
1495			0	x	0	x
1496						
1497	Total of fields discovered after January 1, 1937		18,817,000	72,016,000	56,635,000	1,305,301,000
1498	Total for Illinois		24,580,000	81,131,000	81,008,000	1,836,576,000

TABLE 13.—GAS PRODUC-

Line Number	Pool: county	Year of discovery	Gas Production Million cu. ft.		Proved area (acres)
			During 1955	To End of 1955	
1	Main: Crawford ⁶	1906	x	x	x
2			x	x	x
3			0	0	160
4			x	x	320
5	Ava-Campbell Hill: Jackson ^{6, 9}	1916	0	x	370
6	Ayers (Gas): Bond ¹⁶	1922	0	298.7	325
7	Gillespie-Benld (Gas): Macoupin ¹⁷	1923	0	135.8	80
8	Greenville (Gas): Bond ¹⁸	1910	0	990.0	160
9	Jacksonville (Gas): Morgan ^{6, 19}	1910	0	x	1,320
10	Pittsfield (Gas): Pike ²¹	1886	0	x	8,960
11	Spanish Needle Creek (Gas): Macoupin ²²	1915	0	14.4	80
12	Sparta: Randolph ^{6, 23}	1888	0	x	160
13	Staunton (Gas): Macoupin ²⁴	1916	0	1,050.0	400
14	Total of fields discovered prior to January 1, 1937 ²⁷		x	2,506.5	12,335
15	Albion Consolidated: Edwards, White ⁶	1940	0	0	40
16	Beaver Creek South: Clinton, Bond ⁶	1946	0	0	160
17	Boulder: Clinton ⁶	1941	0	0	320
18	Carlinville North: Macoupin ^{6, 40}	1941	0	0	40
19	Claremont: Richland ⁴⁵	1950	0	0	160
20	Cooks Mills Consolidated:				
21	Coles ^{6, 47}	1941	0	0	120
22			0	0	40
23	Dubois: Washington ⁶	1939	0	0	320
24	Dudley: Edgar ⁶	1948	0	0	80
25	Dudley West: Edgar	1953	0	0	40
26	Eldorado Consol.: Saline ⁶	1941	0	0	80
27			0	0	40
28			0	0	40

OIL AND GAS PRODUCTION

(concluded)

Total proved area (acres)	Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
	Name: Age ^a	Char-acter ^b	Depth to top (ft.)	Av. thick-ness (ft.)	Com-pleted to end of 1955	1955				Name	Depth of hole (ft.)
						Com-pleted	Aban-doned	Produc-ing end of year			
160	McClosky: MisL ₁	L	3,140	4	1	0	0	0	NC	MisL	3,116
280					4	0	0		M		
40	Ohara: MisL ²⁸	L	2,920	6	14	0	0	0	MC		
280	McClosky: MisL ₁	L	2,985	7	0	0	0	0	MC		
359,090					27,325	1765	286	21,270			
521,200					49,208	2102	484	30,446			

PRODUCTION IN ILLINOIS, 1955

Name: Age ^a	Producing Formation			Number of Wells				Structure ^e	Deepest Zone Tested	
	Character ^b	Depth to top, (ft.)	Av. thick-ness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
					Com-pleted	Aban-doned	Produc-ing end of year			
Robinson: Pen	S	1,000	x	x	1	0	x	ML	St. Peter	4,654
Hardinsburg: MisU	S	1,075	40	1	1	0		ML		
Cypress: MisU	S	1,425	6	2	0	0		ML		
Cypress: MisU	S	780	18	20	0	0	0	A	Trenton	3,582
Bethel: MisU	S	940	5	21	0	0	0	A	Ord	3,044
Unnamed: Pen	S	540	x	4	0	0	0	A	Pen	603
Lindley (1st and 2nd): MisU	S	925	x	4	0	0	0	A	Dev	2,373
Gas: Pen, MisL	LS	330	5	45	0	0	0	ML	Ord	1,390
Niagaran: Sil	L	265	10	68	0	0	0	A	Pre-Cam	2,226
Unnamed: Pen	S	305	x	7	0	0	0	D	Trenton	2,070
Cypress: MisU	S	850	7	18	0	0	0	D	Trenton	3,130
Unnamed: Pen	S	460	x	18	0	0	0	A	Ord	2,371
				209	1	0	x			
Pennsylvanian: Pen	S	1,490	6	1	0	0	0	MF	Dev	5,185
Cypress: MisU	S	1,015	20	4	4	0	0	A	Dev	2,539
Devonian: Dev	L	2,600	7	4	0	0	0	R	Trenton	3,813
Pottsville: Pen	S	440	10	1	0	0	0	x	Trenton	1,970
Rosiclare: MisL	L	3,200	5	1	0	0	0	MC	MisL	3,340
				4	4	0	0	A	Dev	2,888
Cypress: MisU	S	1,600	10	3	3	0	0	A		
Aux Vases: MisU	S	1,800	8	1	1	0	0	A		
Cypress: MisU	S	1,220	10	8	0	0	0	AL	Ord	4,217
Pennsylvanian: Pen	S	300	20	2	0	0	0	M	St. Peter	2,997
Gas: Pen	S	380	11	1	0	0	0	x	Pen	428
				2	2	0	0	A	MisL	3,606
Waltersburg: MisU	S	2,055	20	1	1	0	0	AL		
Tar Springs: MisU	S	2,225	17	1	1	0	0	AL		

TABLE 13.—

Line Number	Pool: county	Year of discovery	Gas Production Million cu. ft.		Proved area (acres)
			During 1955	To End of 1955	
29	Epworth Consol.: White ⁶	1941	0	0	160
30	Fishook: Pike, Adams	1955	0	0	240
31	Grandview: Edgar ⁶	1945	x	x	400
32			x	x	360
33			x	x	40
34	Harrisburg: Saline ⁶	1952	25.0	93.2	160
35	Herald Consol.: White, Gallatin ⁶	1939	117.8	x	1,080
36			92.8	x	360
37			0	x	120
38			0	x	120
39			25.0	591.0	480
40	Inclose: Edgar, Clark ⁶	1941	x	x	320
41	Livingston East: Madison	1951	0	0	40
42	Livingston South: Madison ⁶	1950	0	0	40
43	Louden: Fayette, Effingham ⁶	1937	0	x	1,760
44			0	x	320
45			0	0.9	1,440
46	Mt. Olive: Montgomery ⁶	1942	0	0	80
47	Omaha: Gallatin ⁶	1940	0	0	120
48	Panama: Bond,	1940	0	x	280
49	Montgomery ⁶		0	x	160
50			0	x	120
51	Prentice: Morgan ⁶	1953	0	0	240
52	Redmon North: Edgar	1955	0	0	40
53	Roland Consol.: White, Gallatin ⁶	1940	0	0	160
54	Russellville (Gas): Lawrence ⁶	1937	0	7,081.6	1,800
55			0	x	x
56			0	x	x
57	Storms Consol.: White ⁶	1937	0	0	280
58	Tamaroa: Perry ⁶	1942	0	0	320
59	Waverly: Morgan ⁶	1946	0	0	860
60			0	0	160
61			0	0	700
62	Westfield East: Clark ⁶	1947	0	0	40
63	Total for fields discovered after January 1, 1937		143.1	8,322.0	9,820
64	Total for Illinois		143.1	10,828.5	22,155

(continued)

Producing Formation				Number of Wells				Structure ^e	Deepest Zone Tested	
Name: Age ^a	Character ^b	Depth to top, (ft.)	Av. thickness (ft.)	Completed to end of 1955	1955				Name	Depth of hole (ft.)
					Completed	Abandoned	Producing end of year			
Gas: Pen	S	1,090	40	1	0	0	0	Af	MisL	3,238
Edgewood: Sil	L	450	5	6	6	0	0	x	Sil	813
				11	0	0	2	M	Ord	2,694
Gas: Pen	S	400	x	10	0	0	2	ML		
Salem: MisL	L	570	2	1	0	0	0	MC		
Tar Springs: MisU	S	2,085	6	1	0	1	0	x	MisL	2,789
				19	0	2	8	A	MisL	3,394
Anvil Rock: Pen	S	700	25	9	0	2		AL		
Pennsylvanian: Pen	S	1,750	18	0	0	0		AL		
Waltersburg: MisU	S	2,240	10	3	0	0		A		
Tar Springs: MisU	S	2,315	6	4	0	0		AL		
Pennsylvanian: Pen	S	540	12	8	0	0	0	x	Mis	815
Pennsylvanian: Pen	S	540	12	1	0	0	0	x	MisL	815
Pennsylvanian: Pen	S	530	2	1	0	0	0	ML	MisL	845
				14	0	0	0	A	St. Peter	4,680
Burtschi: Pen	S	1,000	20	5	0	0		AL		
Tar Springs: MisU	S	1,170	2	9	0	0		AL		
Pottsville: Pen	S	605	6	2	0	0	0	A	Pen	905
Tar Springs: MisU	S	1,900	15	2	0	0	0	D	Mis	2,941
				7	0	0	0	A	Dev	2,016
Pennsylvanian: Pen	S	575	30	4	0	0		A		
Bethel: MisU	S	865	12	3	0	0		A		
Pennsylvanian: Pen	S	260	15	5	1	0	0	x	Pen	325
Pennsylvanian: Pen	S	365	3	1	1	0	0	x	Mis	450
Waltersburg: MisU	S	2,150	19	1	0	0	0	AL	Dev	5,225
				60	0	0	0	A	Dev	3,133
Bridgeport: Pen	S	760	15	18	0	0		AL		
Buchanan: Pen	S	1,100	12	42	0	0		AL		
Waltersburg: MisU	S	2,230	15	7	0	0	0	AL	MisL	3,267
Cypress: MisU	S	1,120	13	2	0	0	0	AL	MisL	1,630
				7	0	0	0	A	Ord	2,070
Pennsylvanian: Pen	S	250	13	1	0	0		AL		
Devonian: Dev	L	1,000	10	6	0	0		A		
Pennsylvanian: Pen	S	400	11	1	0	0	0	ML	Pen	678
				185	18	3	10			
				394	19	4	10			

PART II

WATERFLOOD OPERATIONS

PAUL A. WITHERSPOON AND DONALD A. PIERRE

ABSTRACT

During 1955, waterflooding produced approximately 26,560,000 barrels of oil in Illinois. There were 284 waterfloods reported in operation, and these projects recovered 24,585,000 barrels of oil. An additional 1,978,000 barrels are estimated to have been produced by "dump" flooding. At the end of 1955, the cumulative waterflood recovery was 100,800,000 barrels. Tables of statistics are included in the report.

INTRODUCTION

This report is the result of a joint effort by the Illinois State Geological Survey and the Illinois Secondary Recovery and Pressure Maintenance Study Committee of the Interstate Oil Compact Commission. The following persons were appointed to the study committee by Governor William G. Stratton to assist in the compilation of data on the waterflood and pressure maintenance projects that were in operation in Illinois during 1955.

Paul A. Witherspoon, Chairman
Illinois State Geological Survey
Urbana, Illinois

Frederick Squires, honorary member
(Deceased)

R. N. Ayars
The Ohio Oil Company
Terre Haute, Indiana

Hugh S. Barger
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J. S. Bottler
Carter Oil Company
Mattoon, Illinois

Paul Phillippi
Forest Oil Corporation
Casey, Illinois

Mark Plummer
The Pure Oil Company
Olney, Illinois

C. E. Skiles
Skiles Oil Corporation
Mt. Carmel, Illinois

W. G. Sole
Magnolia Petroleum Company
Salem, Illinois

Allen Calvert
Calvert Drilling Company
Olney, Illinois

W. H. Davison
Tekoil Corporation
Robinson, Illinois

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Calvan American, Inc.
Robinson, Illinois

T. F. Lawry
Mahutska Oil Company
Robinson, Illinois

R. W. Love
The Texas Company
Salem, Illinois

E. A. Milz
Shell Oil Company
Centralia, Illinois

Fred A. Noah
The Noah Petroleum Company
Albion, Illinois

T. W. George
George & Wrather
Mt. Carmel, Illinois

C. H. Kallenberger
The Texas Company
Salem, Illinois

Harry F. Swannack
Gulf Refining Company
Centralia, Illinois

Carl R. Temple
Sohio Petroleum Company
Centralia, Illinois

R. R. Vincent
C. L. McMahon, Inc.
Evansville, Indiana

R. A. Wilson
Tide Water Associated Oil Company
Robinson, Illinois

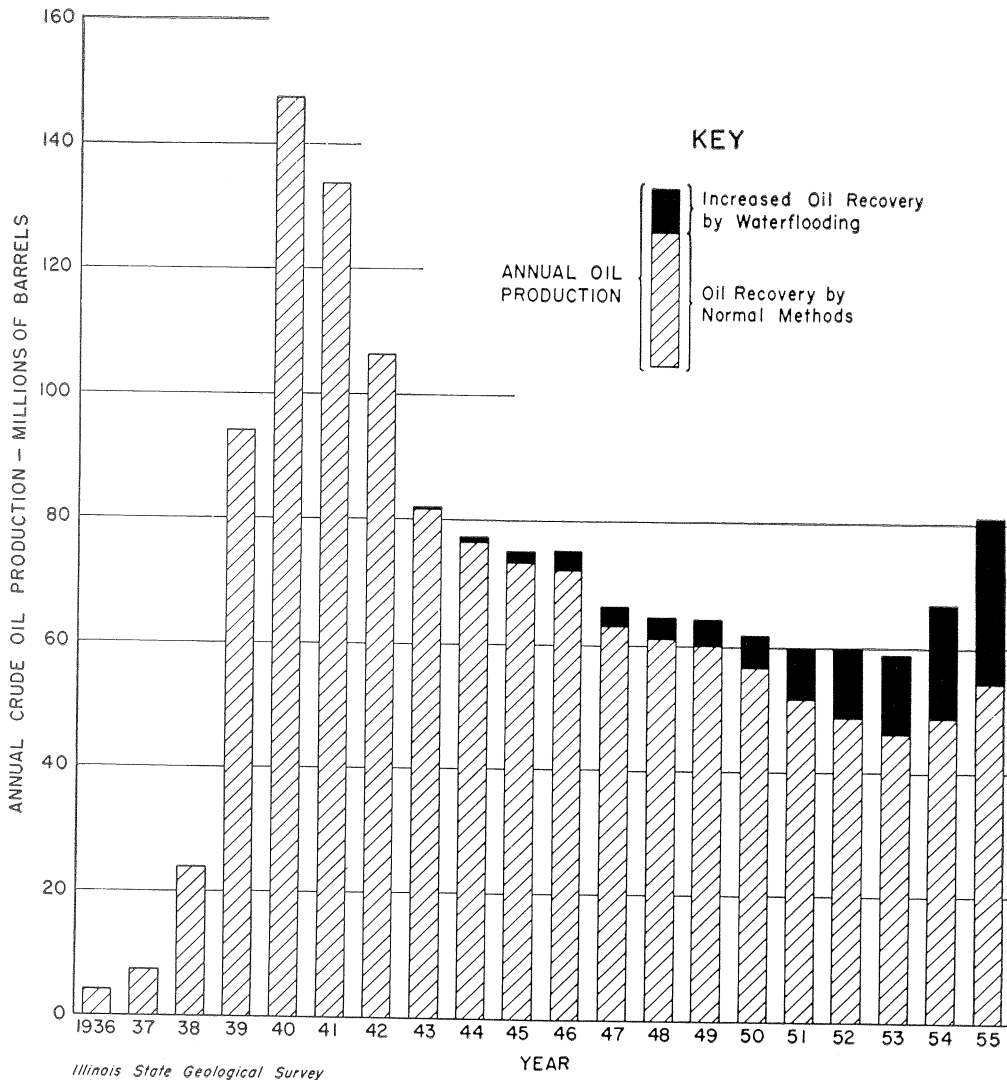


FIG. 25.—Annual crude oil production in Illinois.

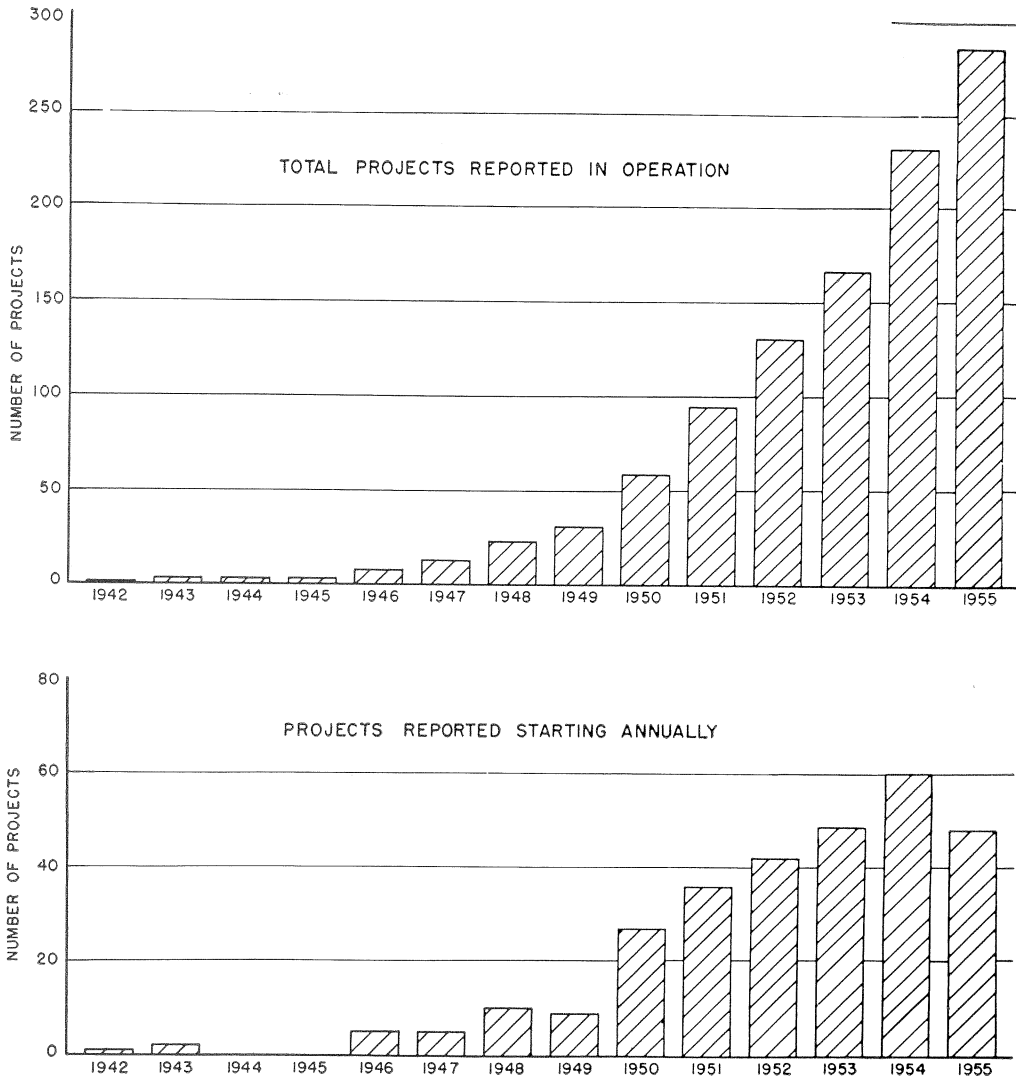
In order to collect information on water injection and pressure maintenance projects, the study committee met in Robinson, Illinois, and set up a questionnaire on January 13, 1955. The Geological Survey sent the questionnaire to all waterflood operators in Illinois and compiled the data returned.

This report supplements six previous summaries of waterflood operations listed below.

- (1) "Summary of Water Flooding Operations in Illinois, 1950," which reported operations during 1949. Pub-

lished by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Circular 165.

- (2) "Summary of Water Flooding Operations in Illinois to 1951," which reported operations during 1950. Published by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Circular 176.



ILLINOIS STATE GEOLOGICAL SURVEY

FIG. 26.—Reported development of waterflood projects in Illinois.

- (3) "Summary of Water Flooding Operations in Illinois Oil Pools During 1951." Published by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Circular 182.
- (4) "Summary of Water Flooding Operations in Illinois Oil Pools During 1952." Published by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Circular 185.
- (5) "Summary of Water Flooding Operations in Illinois Oil Pools During 1953." Published by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Circular 193.
- (6) "Summary of Water Flood Operations in Illinois Oil Pools During 1954." Published by Interstate Oil Compact Commission and reprinted by Illinois State Geological Survey as Illinois Petroleum 73.

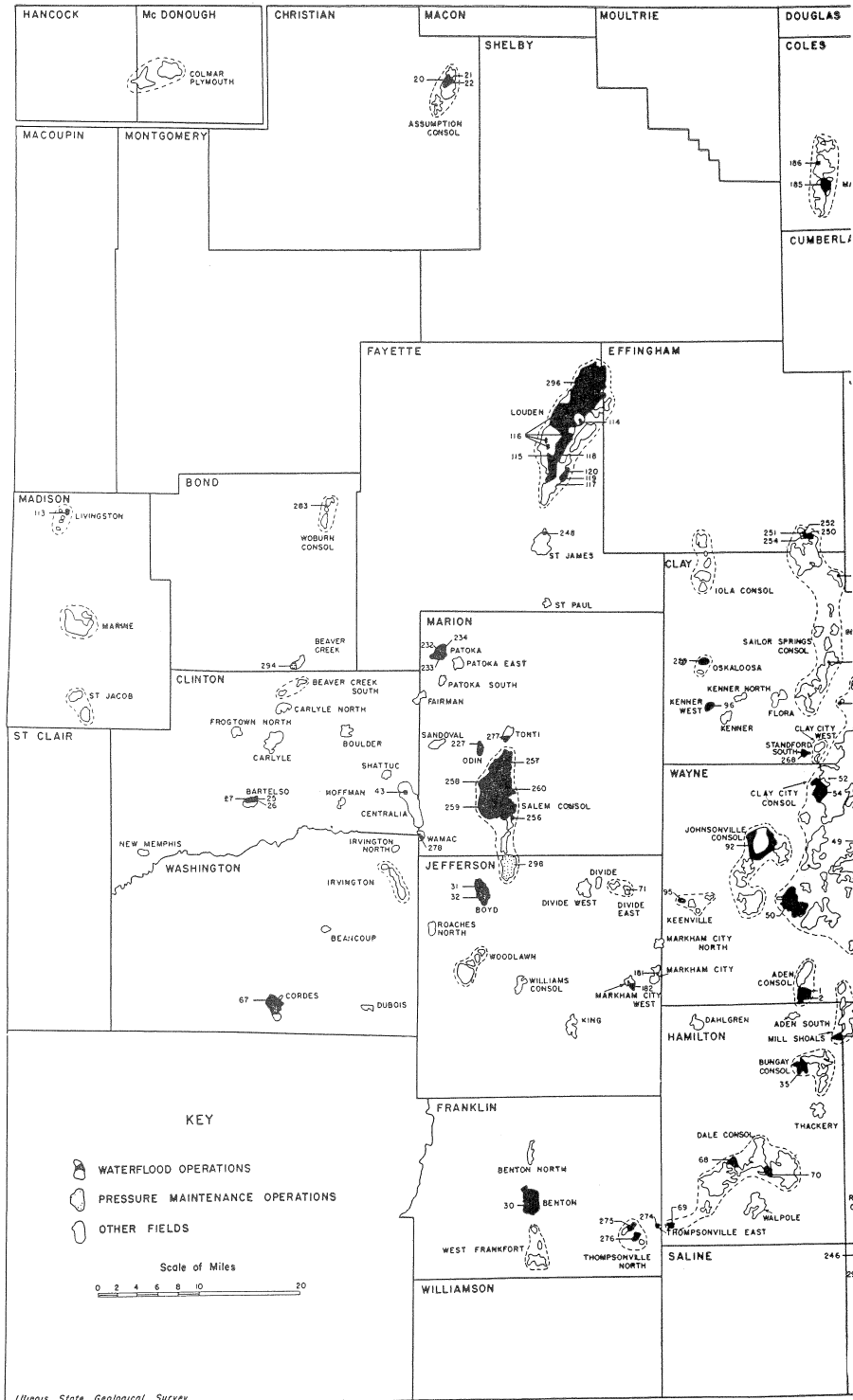
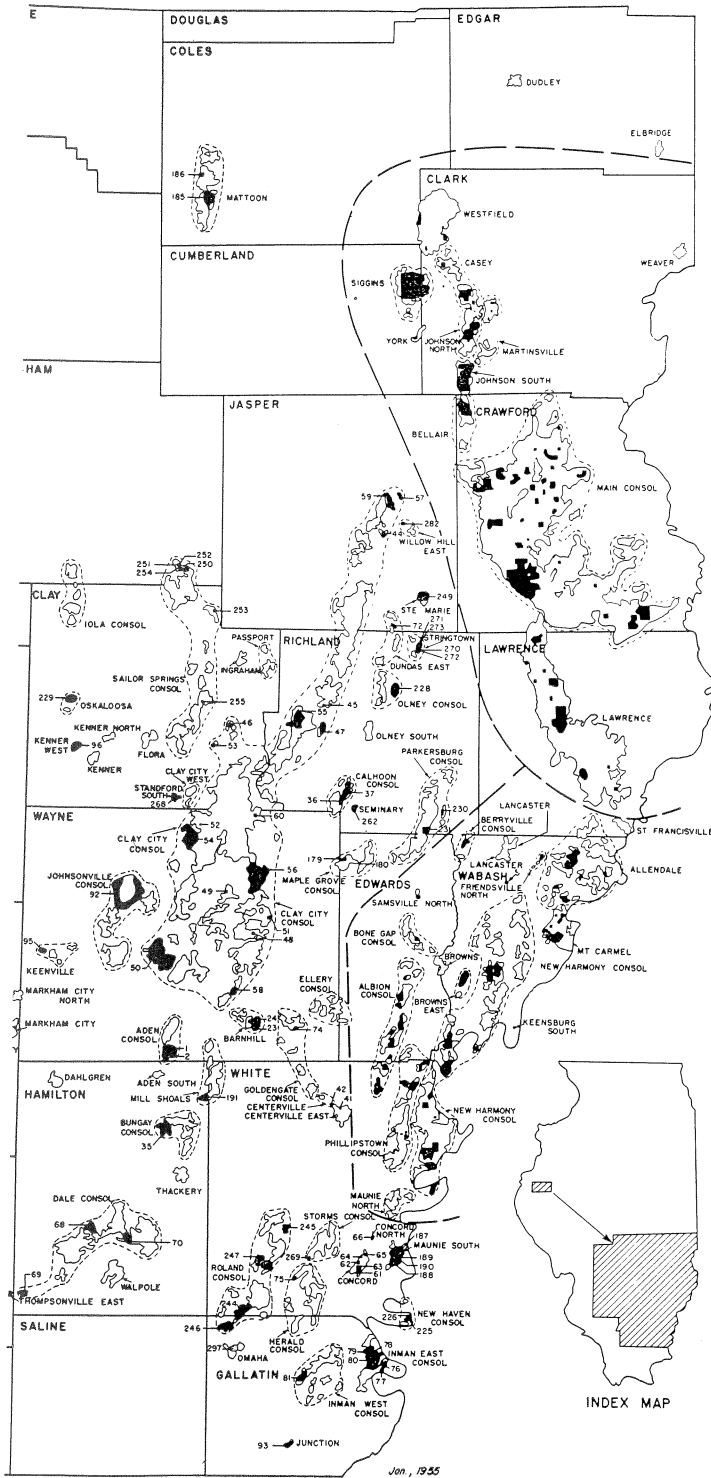


FIG. 27.—Waterflood and pressure maintenance operations in Illinois during



1955. Areas outlined by heavy dashes are shown in detail in figs. 28 and 29.

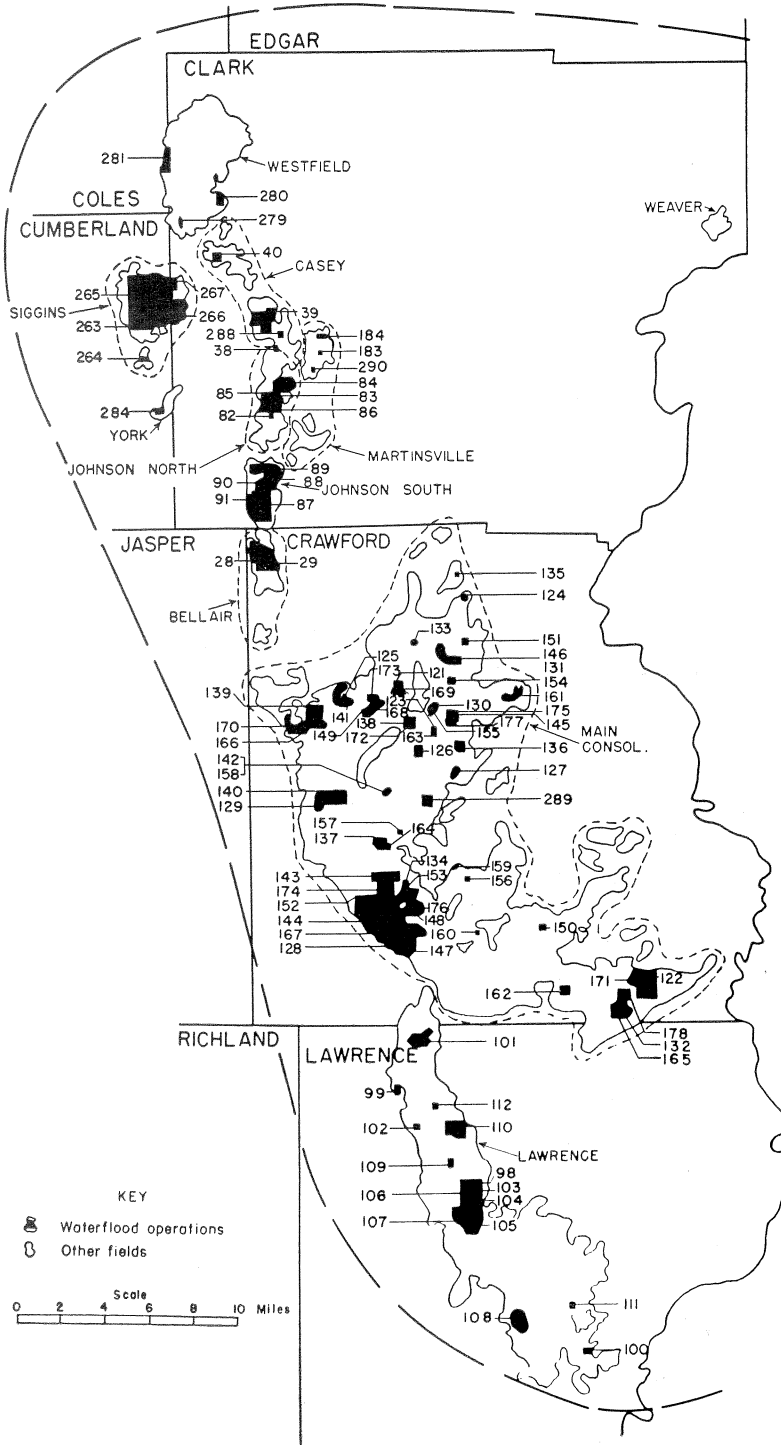


FIG. 28.—Detail of waterflood operations in Clark, Crawford, and Lawrence counties.

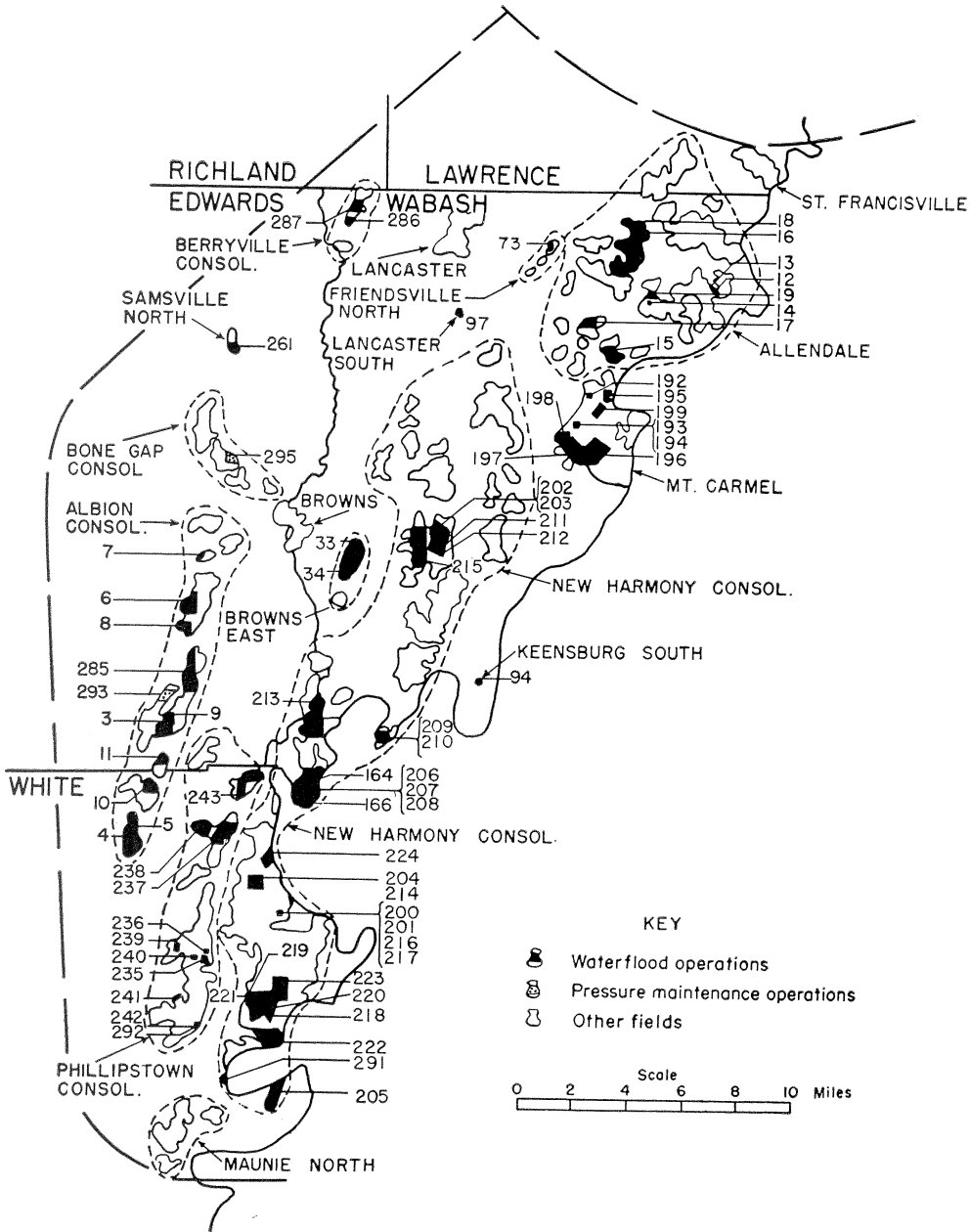
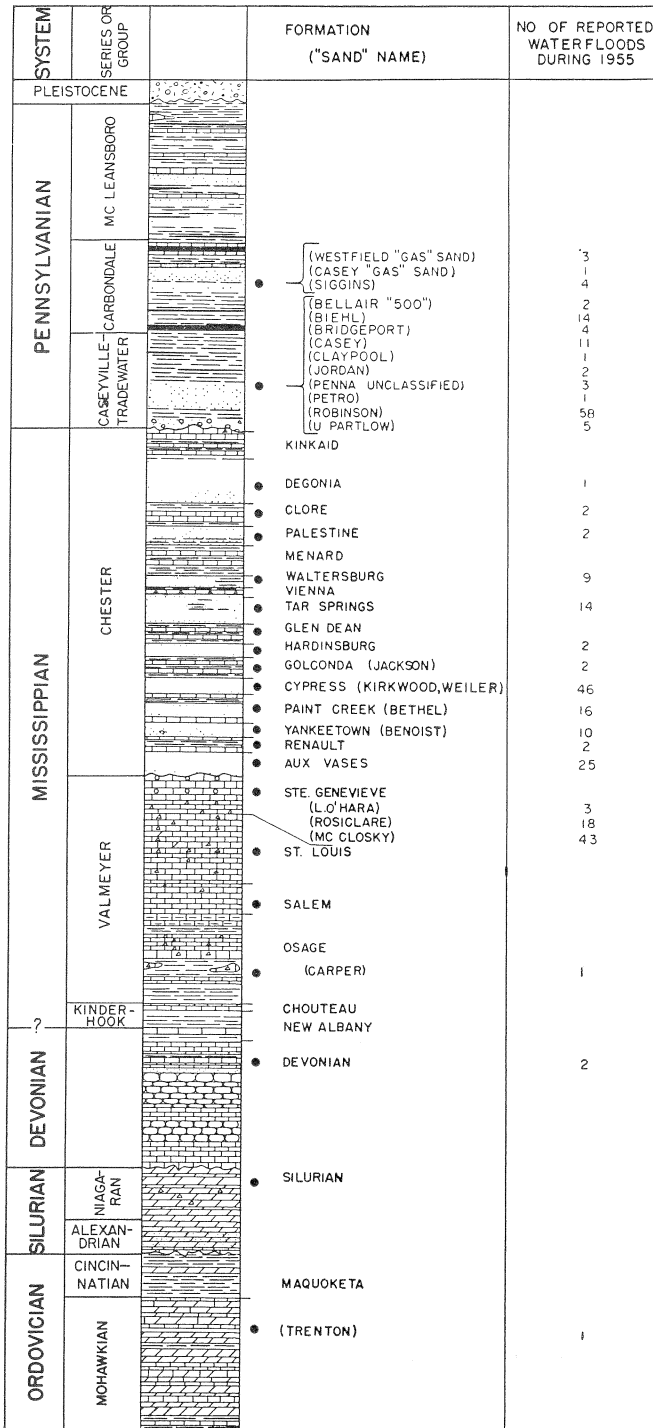


FIG. 29.—Detail of waterflood and pressure maintenance operations in Wabash, Edwards, and White counties.



(● OIL PRODUCING FORMATIONS)

FIG. 30.—Generalized geologic column showing formations subjected to waterflooding in the Illinois basin.

SUMMARY OF RESULTS

During the last two years, oil production in Illinois has been consistently increasing. This rise in production is attributed mainly to the large increase in oil recovered by means of waterflooding. This method of secondary recovery produced approximately 26,560,000 barrels of oil during 1955, or 32.7 percent of the state's total recovery of 81,131,000 bbls. Of this waterflood oil, 24,585,000 barrels are reported in table 14 and an additional 1,978,000 barrels are estimated to have been recovered by "dump" flooding. The 1955 waterflood recovery is 32 percent higher than the 1954 recovery of approximately 18,000,000 barrels.

Figure 25 shows the effect of waterflood (including "dump" flood) operations on the state's annual oil production since 1936. The cumulative waterflood recovery at the end of 1955 was approximately 100,800,000 barrels, which includes 19,800,000 barrels of "dump" flood oil.

Table 14 presents a summary of the information collected on waterflood projects in operation during 1955. The data are arranged alphabetically by fields and include 284 projects. Excluding the "dump" floods, there were approximately 300 waterfloods in operation during 1955. Table 14 provides data on 95 percent of these projects, although in terms of cumulative figures, this summary approaches 100 percent coverage.

According to data reported in table 14, a total of 224,579,000 barrels of water was injected during 1955 in recovering 24,585,000 barrels of waterflood oil, or a ratio of 9.13 barrels of water for each barrel of oil. A cumulative total of 745,573,000 barrels of water had been injected by the end of 1955

in recovering 81,010,000 barrels of oil, or an over-all input water-well ratio of 9.2.

Figure 26 shows the reported development of waterflood projects in Illinois by years since 1942. The rapid increase in the number of projects since 1949 is evident. As a result, the number of projects has increased by a factor of nine in the past six years from 33 projects at the end of 1949 to 284 projects at the end of 1955. As shown in table 14, these 284 projects had developed 72,832 acres for waterflooding, or 15 percent of the state's total oil-productive acreage.

Table 15 presents data on the waterflood projects that have been reported abandoned by the end of 1955. Only five projects were abandoned during 1955, bringing to thirteen the total number of projects reported abandoned.

Table 16 includes data on the six pressure maintenance operations that used water injection during 1955. The oil-production statistics in table 16 include both primary recovery and any additional oil obtained by pressure maintenance operations.

Each project listed in tables 14, 15, and 16 has been numbered, and corresponding numbers on figures 27, 28, and 29 show the locations of the waterflood and pressure maintenance operations. Figure 27 shows all reported projects, while figures 28 and 29 are details of portions of the old oil fields and the Wabash Valley fields, respectively.

A generalized geologic column is given in figure 30 which indicates the stratigraphic sequence of oil-producing formations in the Illinois basin. Listed opposite these oil-producing formations are the number of reported waterfloods as taken from table 14. An index map of counties, townships, and ranges in Illinois is shown in figure 5.

TABLE 14.—ILLINOIS WATERFLOOD PROJ-

Map No.					General
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
1	Aden Consol.	Texas	Aden	Aux Vases(S)	Wayne
2	Aden Consol.	Texas	Aden	McClosky(L)	Wayne
3	Albion Consol.	Carter	Albion	Bridgeport(S)	Edwards
4	Albion Consol.	Concho	—	Tar Springs(S)	White
5	Albion Consol.	Concho	—	Cypress(S)	White
6	Albion Consol.	Continental	Stafford	McClosky(L)	Edwards
7	Albion Consol.	First National Petroleum Trust	Brown Lease	Aux Vases(S)	Edwards
8	Albion Consol.	Jarvis Bros. & Marcel	A. C. Wick	McClosky(L)	Edwards
9	Albion Consol.	Superior	South Albion S.R.P. # 1	Biehl (S) Waltersburg(S)	Edwards
10	Albion Consol.	Yingling	Biehl Unit # 1	Biehl(S)	White
11	Albion Consol.	Yingling	Biehl Unit # 2	Biehl(S)	Edwards
12	Allendale	Ashland	Allendale	Biehl(S)	Lawrence
13	Allendale	Bass and Hamman	Gilliate	Biehl(S)	Wabash
14	Allendale	Bass and Hamman	White	Biehl(S)	Wabash
15	Allendale	G. S. Engle	Patton	Cypress(S)	Wabash
16	Allendale	Forest	Allendale	Biehl & Jordan(S)	Wabash
17	Allendale	Indiana Farm Bureau	Woods	Biehl(S)	Wabash
18	Allendale	B. Kidd	Allendale	Biehl & Jordan (S)	Wabash
19	Allendale	F. C. Luecking	Mataliano et al.	Biehl(S)	Wabash
20	Assumption Consol.	Continental	Benoist	Benoist(S)	Christian
21	Assumption Consol.	Continental	Devonian	Devonian(L)	Christian
22	Assumption Consol.	Continental	Rosiclare	Rosiclare(S)	Christian
23	Barnhill	Ashland	Barnhill	McClosky(L)	Wayne
24	Barnhill	Wayne Devel. Corp.	Walter	McClosky(L)	Wayne
25	Bartelso	T. R. Kerwin	Belle Oil Company	Cypress(S)	Clinton
26	Bartelso	Robben Oil Company	Robben Oil Unit	Cypress(S)	Clinton
27	Bartelso	H. S. Woodard	H. S. Woodard	Cypress(S)	Clinton
28	Bellair	Forest	Bellair	Bellair "500"(S)	Crawford
29	Bellair	Pure Oil Co.	Fulton	Bellair "500"(S)	Crawford
30	Benton	Shell	Benton Unit	Tar Springs(S)	Franklin
31	Boyd	Superior	Boyd Field Unit	Aux Vases(S)	Jefferson
32	Boyd	Superior	Boyd Field Unit	Benoist(S)	Jefferson
33	Browns East	George & Wrather	Bellmont	Cypress(S)	Wabash
34	Browns East	Magnolia	Bellmont	Cypress(S)	Wabash
35	Bungay Consol.	Texas	Blairsville	Aux Vases(S)	Hamilton
36	Calhoun Consol.	Ashland	Calhoun	McClosky(L)	Richland
37	Calhoun Consol.	Phillips	Bohlander Unit	McClosky(L)	Richland
38	Casey	F. A. Bridge	States Oil	Casey(S)	Clark
39	Casey	Forest	Casey	Casey(S)	Clark
40	Casey	Franchot	North Casey Flood	Casey(S)	Clark

TABLE 14.—

Map No.	Development as of 12-31-55						Injection Water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
1	12	19	Perimeter	—	640	1,050	Penn. Sand	Brine	14.2	1,239
2	11	20	Perimeter	—	520	920	Penn. Sand	Brine	44.0	1,162
3	1	5	Flank	—	60	60	Produced	Brine	—	200
4	4	—	Perimeter	—	—	—	River	Fresh	16.83	1,100
5	8	21	Perimeter	—	250	300	River	Fresh	17.11	1,100
6	1	1	—	—	80	80	Produced	Brine	107.5	0
7	1	1	Spot	10	30	50	Hardinsburg	Brine	—	—
8	1	6	—	—	140	140	—	Brine	—	*
9	5	21	Flank	—	325	325	Shallow Sand	Fresh & Brine	—	1,200
10	3	13	Flank	—	222	222	Shallow Sand & Produced	Fresh & Brine	—	1,200
					220	220	River & Produced	Fresh & Brine	—	911
11	1	6	Flank	—	90	90	Pennsylvanian Sand	Brine	51.25	865
12	1	2	Irregular	—	20	20	Pennsylvanian Sand	Brine	6.1	0
13	3	1	Perimeter	—	20	30	Well 100'-150'	Fresh	2.9	25
14	2	1	None	—	30	70	600'-700' Sand	Fresh Brine	—	—
15	4	7	—	25	130	130	—	Fresh	6.4	795
16	25	24	Modified 5-Spot	25	300	—	Gravel Beds & Produced	Fresh & Brine	10.5	314
17	5	7	—	10	147	147	Produced	Brine	—	50
18	2	4	Irregular	30	60	75	Shallow Sand	Fresh	—	103
19	1	2	—	—	44	44	Shallow Sand	Fresh	—	—
20	14	28	Perimeter	—	450	450	Creek & Produced	Fresh & Brine	14.9	883
21	4*	8	5-Spot	—	140	140	Creek & Produced	Fresh & Brine	12.3	90
22	1*	9	Line Drive	—	80	100	Creek & Produced	Fresh & Brine	14.8	282
23	8	16	Irregular	—	260	320	Cypress	Brine	22.8	*
24	1	2	—	10	40	40	Cypress	Brine	—	—
25	5	5	5-Spot	5	40	40	Tar Springs	Brine	5.3	550
26	12	19	5-Spot	10	200	200	Bethel	Brine	6.2	550
27	5	10	5-Spot	10	80	75	Bethel & Produced	Brine	8.3	506
28	56	51	5-Spot	4.4	200	—	Gravel Bed	Fresh	1.9	284
29	131	125	5-Spot	4.4	443	443	Gravel Bed	Fresh	3.8	265
30	107	119	5-Spot	20	2,200	2,200	Lake & Produced	Fresh & Brine	8.5	474
31	12	85	Peripheral	—	569	569	Surface Produced	Fresh & Brine	21.7	250
32	8	85	Peripheral	—	1,564	1,564	Surface & Produced	Fresh & Brine	—	650
33	15	18	5-Spot	20	290	330	Shallow Sand	Fresh & Brine	6.2	1,400
34	3	11	Line Drive	10	184	184	Tar Springs	Brine	—	—
35	10	17	—	20	640	640	Penn. Sand	Brine	20.9	1,217
36	3	7	Irregular	—	140	195	Cypress	Brine	41.7	*
37	3	9	Irregular	—	160	280	Upper Sand & Produced	Brine	30.5	1,349
38	2	0	—	4.4	—	—	Shallow Sand	Fresh	—	—
39	76	66	5-Spot	4.4	280	—	Gravel Bed	Fresh	3.1	220
40	15	6	5-Spot	4.4	48	560	Water Well	Fresh	2.31	115

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
3,200	10	22	150	35.4	—	*Includes water production from McClosky (see map No. 2).	1
3,350	3.6	—	—	35.4	6.5 @ 100°F.	*Included in water production from Aux Vases (see map No. 1).	2
1,900	13	20	305	35	6.0 @ 111°F.		3
2,460	6	18	—	37	—		4
2,850	12	18	—	37	—		5
3,222	4	16.3	898	39	—	*This is total production, as increased production is not known.	6
3,005	21	—	—	—	—	*Dump flood.	7
3,150	30	—	—	37	—	*Dump flood. †Estimated figure.	8
2,025	7.1	18.6	807	36	5.4 @ 85°F.		9
2,400	12.3	18.5	74	36.1	4.7 @ 90°F.		
2,000	17	20.2	265	37.6	5.3 @ 88°F.	*Injection shut down approximately four months.	10
1,950	22	19.3	303	35.8	6.0 @ 84°F.		11
1,475	15	—	—	36	—		12
1,490	17	—	—	—	—		13
1,450	17	—	—	—	—	*Since 7-1-55. Does not include dump flood injection.	14
2,000	16	—	—	34.8	—	†Since 1-1-54.	
						*Includes primary production since 1-1-54.	15
1,500	{14 13	17.7 14.9	390 100}	37	12.3 @ 60°F.	*Since 6-1-55.	16
1,520	15	—	—	28.4	8-9 @ 32°F.	*Includes primary production since 1-1-54.	17
1,490	32	16.5	600	37	7.6 @ 79°F.	*Corrected figures.	18
1,385	15	—	—	34.5	—	*As of 1-1-54.	19
1,050	12.7	19.4	102.5	39.8	—		20
2,280	13	12	—	39.3	1.8 @ 88°F.	*Pilot flood.	21
1,150	12	22	561	39.3	2.61 @ 78°F.	*Pilot flood.	22
3,350	3	—	—	39	—	*Controlled dump flood. †Corrected figure.	23
3,450	18	—	—	—	—	*Abandoned Jan., 1955.	24
971	15	22.2	165	37	6.3 @ 71°F.	*Corrected figure. †Includes primary production since start of flood.	25
980	12	20	110	36.9	6.3 @ 71°F.	*Includes primary production since start of flood.	26
970	15	21	210	36	—	*Includes primary production since start of flood.	27
550	38	17.1	148	32.4	16 @ 77°F.	Previously subjected to gas injection.	28
560	21	18.6	149	32	18.7 @ 77°F.		29
2,100	35	19	65	40.4	3.5 @ 86°F.		30
2,130	11.9	21.4	240	36.8	4.4 @ 90°F.	*Included with Boyd field unit Benoit.	31
2,065	17.3	17.5	173	39.5	3.2 @ 90°F.	*Pressure maintenance 6-45 to 1-1-55.	32
						†Includes Aux Vases production.	
2,570	13	—	—	—	—	*Includes primary production since start of flood.	33
2,570	—	—	—	36	4.6 @ 90°F.	*Includes primary production since start of flood.	34
3,330	15.5	19.6	92	35-40	1.8 @ 99°F.		35
3,150	6	—	—	37	—	*Dump flood. †Includes primary production since start of flood.	36
3,130	10	11.2	67.5	36	—		37
444	20	—	—	—	—	*As of 1-1-55.	38
450	10	17.4	173	31.9	16.6 @ 70°F.	Previously subjected to gas injection.	39
290	20	21.5	400	26.6	50 @ 60°F.	*Negligible.	40

TABLE 14.—

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
41	Centerville East	Sun	East Centerville	Tar Springs(S)	White
42	Centerville East	Lesh Drilling	Centerville East Flood	Rosiclare(L)	White
43	Centralia	Sohio	Copple Trenton	Trenton(L)	Clinton
44	Clay City Consol.	Ashland	Boos East	McClosky(L)	Jasper
45	Clay City Consol.	Ashland	Noble North	McClosky(L)	Richland
46	Clay City Consol.	Calvert	N. Clay City Unit	Rosiclare(L)	Clay
47	Clay City Consol.	Calvert	East Noble Unit	Rosiclare(L)	Richland
48	Clay City Consol.	Calvert	Wilson	Rosiclare(L)	Wayne
49	Clay City Consol.	F. & W.	Miller Lambrich Unit	Ohara, Rosiclare & McClosky(L)	Wayne
50	Clay City Consol.	General American	Covington Unit	St. Genevieve Series(L)	Wayne
51	Clay City Consol.	Gulf	Winona	McClosky(L)	Wayne
52	Clay City Consol.	I. J. Neal	—	Aux Vases(S)	Wayne
53	Clay City Consol.	Phillips	Minnie Lease	Rosiclare(S)	Clay
54	Clay City Consol.	Pure	Jordan School Pool Unit	Aux Vases(S)	Wayne
55	Clay City Consol.	Pure	Old Noble Area	McClosky(L)	Richland
56	Clay City Consol.	Pure	Van Fossan Unit	McClosky(L)	Wayne
57	Clay City Consol.	Robinson & Puckett	N.E. McClosky Unit # 1	McClosky(L)	Jasper
58	Clay City Consol.	Robinson & Puckett	S. Puckett Unit #1	Aux Vases(S)	Wayne
59	Clay City Consol.	Robinson & Puckett	S.W. McClosky Unit #2	McClosky(L)	Jasper
60	Clay City Consol.	Slagter	—	Rosiclare(L)	Wayne
61	Concord	Great Lakes Carbon	McClosky	Rosiclare & McClosky(L)	White
62	Concord	B. Kidd	Kerwin-Concord	McClosky(L)	White
63	Concord	Phillips	Dallas	Rosiclare & McClosky(L)	White
64	Concord	Phillips	Kerwin	Rosiclare & McClosky(L)	White
65	Concord	Phillips	Tuley	McClosky(L)	White
66	Concord North	C. E. Brehm	Concord North	Aux Vases(S)	White
67	Cordes	Shell	Cordes Co-op.*	Benoist(S)	Washington
68	Dale Consol.	Inland	N. Rural Hill	Aux Vases(S)	Hamilton
69	Dale Consol.	Phillips	Cantrell	Aux Vases(S)	Hamilton
70	Dale Consol.	Texas	West Dale Unit	Aux Vases(S)	Hamilton
71	Divide East	Gulf	Holloway	McClosky(L)	Jefferson
72	Dundas East	Gulf	Dundas East	McClosky(L)	Jasper
73	Friendsville North	Magnolia	Litherland	Biehl (S)	Wabash
74	Goldengate Consol.	Cities Service	Goldengate Unit	McClosky & Ohara (L)	Wayne
75	Herald Consol.	C. E. Brehm	Herald West	Waltersburg(S)	White
76	Inman East Consol.	Carter	Big Barn	Upper Cypress(S)	Gallatin
77	Inman East Consol.	Carter	Kerwin-Crawford	Clore, Palestine, Waltersburg, Tar Springs, & Cypress (S)	Gallatin
78	Inman East Consol.	Natural Resources, Inc.	Big Barn*	Cypress(S)	Gallatin
79	Inman East Consol.	Nat'l Resources, Inc.	Big Barn*	Tar Springs(S)	Gallatin
80	Inman East Consol.	Sun	Inman East	Tar Springs(S)	Gallatin

(Continued)

Information				Production and Injection Statistics (Barrels)						Map No.
Location			Date first injection	Secondary recovery						
Section	Twp.	Rng.		Water injection		Oil production		Water production		
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
7	4S	10E	Oct., 1950	44,332	232,876	4,082	35,852	34,642	94,730	41
12	4S	9E	June, 1954	*	*	3,379	4,437†	3,650	—	42
35	2N	1W	Nov., 1951	None*	236,134	None*	48,276†	None*	20,779	43
2	6N	10E	Sept., 1953	47,091	102,133	4,317	8,213	—	—	44
35	4N	9E	July, 1954	91,250*	135,775*	1,563	2,536†	—	—	45
5, 8	3N	8E	June, 1955	66,430	66,430	4,001	4,001	3,284	3,284	46
2, 10, 11	3N	9E	May, 1955	120,969*	120,969*	313	313	4,675	4,675	47
15	1S	8E	April, 1955	55,200	55,200	1,984*	1,984*	—	—	48
29	1N	8E	Aug., 1950	—	500,000*	—	—	—	—	49
32, 33, 19, 20, 31, 30, 29, 28, 25	1S	7E	June, 1955	2,052,844	2,052,844	1,681	1,681	21,100	21,100	50
	1S	6E								
12	1S	8E	Aug., 1955	16,000*	16,000*	None	None	122	122	51
26	2N	7E	April, 1953	*	*	—	—	—	—	52
24	3N	7E	July, 1953*	36,618	96,948*	5,188	73,480*	36,762	380,398*	53
27, 34, 35	2N	7E	Oct., 1955	448,176	448,176	None	None	15,916	15,916	54
3	1N	7E								
32, 33, 34	4N	9E	Aug., 1954	3,466,740*	4,635,551*	278,812*	285,842*	435,733*	443,896*	55
4, 5, 8, 9	3N	9E								
14, 15, 22, 23	1N	8E	Jan., 1953	1,672,882	5,536,607	91,134	141,121	358,227	543,108	56
13, 14, 24	7N	10E	May, 1953	178,778	465,486	37,475	82,076	12,063	32,098	57
16	2S	8E	Aug., 1954	732,922	946,966	57,738	57,738	37,363	38,069	58
23, 26	7N	10E	May, 1953	525,093	1,313,725	98,798	161,477	103,383	179,942	59
22	2N	8E	Feb., 1954	67,000*	67,000*	25,556*	25,556*	—	—	60
28	6S	10E	June, 1953	—	233,490*	—	5,132*	—	44,366	61
21	6S	10E	Jan., 1955	50,420*	53,413*	1,768	1,768	11,950	13,350	62
28	6S	10E	Aug., 1953	69,535	191,233	502	2,480	16,839	23,895	63
21	6S	10E	Feb., 1953	113,500	373,552	7,687	9,786	29,584	84,773	64
21	6S	10E	July, 1951	158,733	1,135,626	10,540	64,040	166,009	968,508	65
10	6S	10E	Dec., 1952	55,000	181,921	15,906	25,707	—	—	66
14, 15, 22, 23	3S	3W	Aug., 1950	1,063,117	6,714,254	187,395	1,984,263	949,096	4,114,902†	67
5, 6, 7, 8	6S	6E	Feb., 1952	814,706	2,645,554	44,839	257,870*	611,429	958,941*	68
5, 6, 7	7S	5E	Aug., 1955	132,034	132,034	None	None	None	None	69
11	6S	6E	July, 1951	448,306	1,791,657	83,056	179,301	206,733	445,900	70
21	1S	4E	May, 1955	51,091	51,091	None	None	None	None	71
23	5N	10E	May, 1954	105,728*	158,190†	1,618	1,618	486	486	72
1, 12	1N	13W	July, 1947	77,483	527,119	5,644	140,091*	58,390	246,442	73
28, 32, 33	2S	9E	Oct., 1953	154,326	410,810	3,243	7,926*	109,330	111,623	74
28, 33	6S	9E	Jan., 1955	56,359	56,359	None	None	—	—	75
11	8S	10E	April, 1954	14,010	27,891	25,522	25,239*	257	501	76
11, 14	8S	10E	June, 1955	211,052	211,052	None	None	15,611	15,611	77
2, 3, 4, 10, 11	8S	10E	Mar., 1954	476,697	994,498	282,849	334,888†	22,306	31,325	78
34	7S	10E								
2, 3, 4, 10, 11	8S	10E	Mar., 1954	2,094,841	4,074,832	444,779†	516,838†	376,444	453,270	79
34	7S	10E								
3	8S	10E	Mar., 1954	213,181	408,778	47,786	51,849	14,625	21,626	80

TABLE 14.—

Map No.	Development as of 12-31-55						Injection Water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well per ft.	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
41	1	5	Flank	—	80	—	Gravel Bed	Fresh	20.2	1,200
42	1	1	—	—	20	20	Tar Springs	Brine	—	0
43	0*	12	—	20	160	200	Devonian	Brine	*	*
44	2	4	Flank	—	40	80	Gravel Bed & Produced	Fresh & Brine	8.1	257
45	1	1	—	—	20	40	Cypress	Brine	50	*
46	2	8	Peripheral	20	460	460	Cypress	Brine	31.6	0
47	3	19	Peripheral	20	280	280	Cypress	Brine	15.3	*
48	1	2	Peripheral	20	40	40	Cypress	Brine	20.4	—
49	4	11	Irregular	10	120	180	Cypress & Produced	Brine	—	—
50	28	23	5-Spot	40	1,967	2,100	Cypress & Penn. Sand	Brine	28.7	—
51	1	1	—	20	12.5	50	Tar Springs	Brine	13.3	*
52	1	2	—	—	—	30	Cypress	Brine	—	*
53	1	1	—	—	10	20	Produced	Brine	3.3	—
54	34	39	5-Spot	17.6	695	695	Penn. Sand	Brine	20.0	600
55	13	48	Line Drive	100	1,200	1,200	Cypress	Brine	—	0
56	16	29	Line Drive	113	1,810	1,810	Chester Sands	Brine	28.6	0
57	2	6	Modified Line	—	235	235	Shallow Sand & Produced	Fresh & Brine	39.5	1,440
58	7	11	Altered Peripheral	—	243	243	Sewage Effluent & Produced	Fresh & Brine	19.38	560
59	5	15	Modified Line	—	415	415	Shallow Sand & Produced	Fresh & Brine	35.1	1,500
60	1	2	—	20	60	—	—	Brine	—	—
61	3	8	Modified Peripheral	—	140	150	Gravel Bed & Cypress	Fresh	—	—
62	1	3	—	10	30	40	Cypress & Shallow Sand	Fresh & Brine	8.6	*
63	1	3	—	—	40	60	Shallow Sand & Produced	Fresh & Brine	6.4	35
64	1	4	—	—	50	100	Shallow Sand & Produced	Fresh & Brine	10.4	0
65	1	5	Irregular	—	65	120	Upper Sand & Produced	Brine	14.5	0
66	1	3	Irregular	—	40	40	Gravel Bed	Fresh	12.6	909
67	36	67	5-Spot	20	640	640	Pottsville	Brine	5.8	400
68	11	14	5-Spot	20	310	325	Cypress	Brine	13.8	977
69	3	6	5-Spot	10	50	110	Penn. 1700'	Brine	19.6	106
70	3	14	Flank	—	295	295	Shallow Sand & Produced	Fresh & Brine	29.2	676
71	1	2	Edge Well	20	20	150	Produced	Brine	30.9	0
72	1	2	—	—	20	20	Cypress	Brine	22.5	—
73	2	3	5-Spot	10	12	50	Shallow Sand	Fresh	—	—
74	1	15	—	—	116	340	Penn. Sand	Brine	52.8	253
75	1	19	Pilot	—	40	250	Pennsylvanian	Brine	8.0	—
76	2	1	5-Spot	10	15	30	River	Fresh	3.3	979
77	27	31	5-Spot	10	278	381	River	Fresh	—	—
78	50	50	Modified 5-Spot	20	664	664	Gravel Bed	Fresh	2.7	1,100
79	50	50	Modified 5-Spot	20	750	796	Gravel Bed	Fresh	8.8	900
80	2	2	5-Spot	10	40	40	Gravel Bed	Fresh	10.1	540

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,530	6	—	—	36.6	—		41
3,366	7	—	—	43	—	*Dump flood. †Includes primary production since start of flood.	42
3,950	22	10	—	39.8	2.7—	*Temporarily shut down as of 3-31-53. †Includes primary production since start of flood.	43
2,645	8	—	—	40	3.2 @ 75°F.		44
3,000	5	—	—	38	—	*Controlled dump flood. †Includes primary production since start of flood.	45
3,010	5	—	—	36.4	—		46
2,950	11	—	—	38	—	*Dump flood.	47
3,159	10	—	—	—	—	*Includes primary production since start of flood.	48
3,060	5	—	—	—	—	*As of 1-1-54. Dump flood.	49
3,200	14	5-23	80+	—	—		50
3,115	8	12	—	40.1	3.69 @ 100°F.	*Dump flood.	51
2,496	10	—	—	39	—	*Dump flood.	52
2,990	30	—	—	—	—	*Previously affected by dump flood, surface injection began 7-9-53.	53
2,950	14.6	19	73	35	—	Previously subjected to gas injection.	54
2,930	10	—	—	36	—	*Includes data of adjacent Ohio flood.	55
3,070	10	13	1 to 300	36	—		56
2,530	6.2	14	—	39.8	3.7 @ 100°F.		57
3,200	14.8	20	80	39	3.7 @ 100°F.		58
2,580	8.2	14	—	39.8	2.9 @ 92°F.		59
3,033	10	—	—	—	—	*From 1-1-55 through 10-30-55. Operated by De-Mier Oil during Nov. and Dec., 1955.	60
2,980	22	—	—	37.5	—	*As of 1-1-55.	61
3,003	16	—	—	—	—	*Dump flood.	62
2,960	30	—	—	—	—		63
2,960	30	—	—	—	—		64
2,960	30	—	—	—	—		65
2,950	12	21.1	218	35.1	5 @ 103°F.		66
1,230	14	20	250	37	—	*Cooperative: Shell, Magnolia, McBride, Horton. †Corrected figure.	67
3,125	14.7	23.9	—	—	—	*Total production since 1-1-53.	68
3,200	15	—	—	—	—		69
3,050	14	17	125	38	—	Previously subjected to gas injection.	70
2,805	6.9	18	—	36.6	3.35 @ 97°F.	*Dump flood. †Corrected figure.	71
2,941	14	16.6	775	37.8	2.47		72
1,620	—	—	—	35.6	7.5 @ 86°F.	*Includes primary production since start of flood.	73
3,308	8	—	—	34	—	*Corrected figure.	74
1,866	20	19.5	200	38	3.5 @ 60°F.		75
2,400	5.9	16.5	58	36.4	4.2 @ 92°F.	*1954 production 283 bbls. below normal.	76
2,400	16	15.5-19.6	75-959	—	—		77
2,400	9.6	16.8	50	38	3.6 @ 63°F.	*Also includes J. L. Crawford, Sohio, Sun, Carter leases. †Includes primary production since start of flood.	78
2,100	15	17.5	137	37.7	3.6 @ 63°F.	*Also includes J. L. Crawford, Sohio, Sun, Carter leases. †Includes primary production since start of flood.	79
2,100	29	17.9	133	35.5	—	Producing wells flowing.	80

TABLE 14.—

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
81	Inman West	Gulf	Inman West Unit	Cypress(S)	Gallatin
82	Johnson North	Bass & Hamman	North Johnson	Casey(S)	Clark
83	Johnson North	McMahon	Block "A"	Casey(S)	Clark
84	Johnson North	McMahon	Block "B"	Casey(S)	Clark
85	Johnson North	H. V. Sherrill	V. Jones*	Casey(S)	Clark
86	Johnson North	Tide Water	Clark County #1	Casey(S)	Clark
87	Johnson South	Forest	South Johnson	Upper Partlow (S)	Clark
88	Johnson South	Pure	Johnson Extension #1	Upper Partlow(S)	Clark
89	Johnson South	Pure	Johnson Extension #2	Claypool, Casey, Upper Partlow(S)	Clark
90	Johnson South	Pure	Pure-Kewanee	Upper Partlow(S)	Clark
91	Johnson South	Pure	Weaver-Bennett	Upper Partlow(S)	Clark
92	Johnsonville Consol.	Texas	Johnsonville	McClosky(L)	Wayne
93	Junction	J. A. Lewis Eng. Inc.	Junction	Waltersburg(S)	Gallatin
94	Keensburg South	White & Vickery	A. P. Garst	Cypress(S)	Wabash
95	Keenville	W. Duncan	Keenville Unit	Aux Vases(S)	Wayne
96	Kenner West	Phillips	West Kenner Unit	Cypress(S)	Clay
97	Lancaster South	Ashland	Lancaster South	Bethel(S)	Wabash
98	Lawrence	Bradley	C. M. Perkins	Bridgeport(S)	Lawrence
99	Lawrence	Calvan American	Piper	Kirkwood(S)	Lawrence
100	Lawrence	Calvan American	Waller	Cypress(S)	Lawrence
101	Lawrence	George & Wrather	Klondike	Bethel(S)	Lawrence
102	Lawrence	W. W. Holden	Gray	Jackson, Bethel, Renault(S)	Lawrence
103	Lawrence	Murphy	Stoltz	Kirkwood(S)	Lawrence
104	Lawrence	Murphy Oil	Stoltz	Main (Second) Bridgeport(S)	Lawrence
105--					
108	Lawrence	Ohio	4 Projects	Bridgeport(S)	Lawrence
109--					
110	Lawrence	Ohio	2 Projects	Kirkwood&PaintCreek(S)	Lawrence
111	Lawrence	Ree	Snyder	Cypress(S)	Lawrence
112	Lawrence	H. V. Sherrill	Applegate*	Jackson & Cypress(S)	Lawrence
113	Livingston	W. H. Krohn	—	Pennsylvanian Sand(S)	Madison
114	Louden	J. P. Babcock	Rhodes & McCloy	Paint Creek & Benoist(S)	Fayette
115	Louden	Burtschi Motor Co.	—	Cypress(S)	Fayette
116	Louden	Carter	Louden	Cypress(S) Paint Creek(S) Benoist(S)	Fayette
117	Louden	Jarvis Bros. & Marcel	Homan	Cypress(S)	Fayette
118	Louden	B. Kidd	Louden	Weiler(S)	Fayette
119	Louden	Mabee	Louden	Cypress(S)	Fayette

WATERFLOOD OPERATIONS

(Continued)

Information				Production and Injection Statistics (Barrels)						Map No.								
Location			Date first injection	Secondary recovery														
Section	Twp.	Rng.		Water injection		Oil production		Water production										
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55									
15, 16	8S	9E	May, 1955	371,996	371,996	None	None	530	530	81								
2, 11	9N	14W	June, 1953	247,890	726,181*	9,272	27,852	—	—	82								
2	9N	14W	April, 1949	453,492	5,426,490	10,284	240,322	128,237*	2,713,041*	83								
35, 36	10N	14W	May, 1951	175,779	895,968	11,424	47,991	38,515*	200,865*	84								
1, 3	9N	14W	Sept., 1951	—	75,475*	—	1,235*	—	2,438*	85								
2	9N	14W	Feb., 1950	313,531	1,455,517	16,055	94,533*	277,550	887,547*	86								
27, 34, 35	9N	14W	Mar., 1949	4,251,791	19,379,558	155,807	661,382	—	—	87								
23, 26	9N	14W	Jan., 1954	1,757,197	2,808,193	175,939	204,290	921,112	1,093,487	88								
23, 26	9N	14W	Nov., 1955	7,241	7,241	None	None	None	None	89								
22, 27	9N	14W	Jan., 1954	478,832	802,011	48,656	53,273	147,918	156,460	90								
27	9N	14W	Jan., 1953	1,464,219	4,690,857	98,617	353,865	1,354,714	2,420,062	91								
21, 26, 27, 28	1N	6E	Nov., 1954	3,264,550	3,339,522	223,186	233,148*	867,361	994,949*	92								
3, 4	1S	6E	May, 1951	195,598	743,911	57,824	138,816*	82,031	189,778	93								
16	9S	9E																
27	2S	13W									Nov., 1954	15,062*	24,656*	8,359	8,501	—	—	94
28, 29	1S	5E									April, 1954	347,139	511,439	68,947	99,647*	29,150	35,600	95
23	3N	5E	Feb., 1952	1,548,918	3,547,212	85,007	98,583	116,235	178,774	96								
21	1N	13W	Jan., 1955	23,444	23,444	8,614	8,614	—	—	97								
32	4N	12W	Feb., 1955	141,626*	141,626	7,682	7,682†	130,000	130,000	98								
2, 11	4N	13W	Dec., 1953	273,533*	273,533	1,069	5,304*	15,695	15,695†	99								
	5, 6	2N	11W	Mar., 1953	60,554	129,977	2,092	12,299†	—	—	100							
25, 26, 35, 36	5N	13W	June, 1952	1,407,629	2,800,276	149,977	372,406	324,000	—	101								
	13	4N	13W	May, 1953	203,635	422,478	32,510	37,821*	61,050	69,665	102							
32	4N	12W	Jan., 1955	247,681	247,681	38,070	38,070	15,195	15,195	103								
32	4N	12W	Jan., 1955	190,739	190,739	34,085	34,085	14,529	14,529	104								
—	—	—	Aug., 1948	6,991,061	27,894,776	961,729	4,350,166	4,061,375	10,864,379	105-108								
—	—	—	Jan., 1952	4,042,254	7,658,334	841,440	1,234,932*	735,582	1,089,808	109-110								
30	3N	11W	Oct., 1952	—	15,796*	—	567*	—	69,350*	111								
7	4N	12W	Sept., 1952	—	162,495*	—	3,008*	—	3,600*	112								
17	6N	6W	July, 1954	12,705*	17,205	834	834	—	—	113								
27, 34	8N	3E	Jan., 1954	495,312	833,350*	10,785	12,135	—	—	114								
18	7N	3E	Oct., 1953	58,822	168,365	34,861	72,224	—	—	115								
	7, 8N	3E	Oct., 1950	32,408,114	63,921,592	3,883,731	7,262,343	3,035,422	4,211,577	116								
29, 32	7N	3E	Mar., 1954	68,550	109,598	None	None	—	—	117								
8	7N	3E	Sept., 1954	82,608	121,210	11,535	12,910	25,220	25,420	118								
29	7N	3E	Aug., 1955	56,462	56,462	100	100	9,105	9,105	119								

TABLE 14.—

Map No.	Development as of 12-31-55					Injection Water				
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
81	10	7	5-Spot	20	110	170	Penn. Sand	Brine	9.4	681
82	14	9	5-Spot	4.5	36	87	Produced & Gravel Bed	Brine & Fresh	2.2	187
83	27	18	3-Spot	4.4	125	—	Shallow & Produced	Fresh & Brine	2.3	350
84	29	13	5-Spot	4.4	80	—	Shallow Sand & Produced	Fresh & Brine	0.8	350
85	3*	2	5-Spot	4.4	15	65	Shallow Sand	Fresh	—	—
86	18	25	5-Spot	4.4	81	102	Shallow Sand & Produced	Fresh & Brine	2.8	365
87	86	75	5-Spot	4.4	400	—	Produced	Brine	2.8	267
88	66	60	5-Spot	5.0	243	243	Produced	Brine	3.7	245
89	69	56	5-Spot	4.5	234	234	Produced	Brine	—	245
90	20	13	5-Spot	4.4	53	67	Produced	Brine	2.0	245
91	38	34	5-Spot	4.4	114	151	Produced	Brine	3.0	245
92	10	142	Perimeter	20	3,400	3,400	Weiler Sand	Brine	89.4	—
93	11	7	Irregular 5-Spot	10	263	263	Water Well	Fresh	3.5	900
94	1	1	—	60	60	60	Surface Gravel	Fresh	—	—
95	3	9	Perimeter	—	120	120	Shallow Sand	Fresh	24.4	1,250
96	11	18	Edge	10	329	329	Penn. Sand & Produced	Brine	14.8	660
97	1	3	Irregular	—	30	30	Tar Springs	Brine	6.4	405
98	9	17	5-Spot	10	45	100	Buchanan & Produced	Brine	2.7	210
99	4	8	5-Spot	10	12.5	143.6	Shallow Sand	Brine	4.3	0
100	8	8	5-Spot	10	35	625	Shallow Gravel	Brine	1.7	616
101	37	34	5-Spot	13.5	750	900	Shallow Sand	Fresh	5.8	935
102	4	2	5-Spot	10	10	120	Penn. Sand	Brine	—	617
103	10	8	5-Spot	3	25	25	Gravel Beds & Produced	Fresh & Brine	3.7	129
104	9	10	5-Spot	3	25	25	Gravel Beds & Produced	Fresh & Brine	2.3	215
105-108	138	203	5-Spot	10	1,218	—	Gravel Beds & Produced	2-Proj.—Fresh 2-Proj.—Brine	—	—
109-110	98	116	5-Spot	10	938	—	Gravel Bed	Fresh	—	—
111	1*	2	—	2.5	10	230	Tar Springs	Brine	—	—
112	4*	1	5-Spot	10	10	225	Gravel Bed	Fresh	—	—
113	1	5	—	160	160	80	Benoist & Aux Vases	Fresh & Brine	3.8	769
114	7	8	—	10	140	140	Tar Springs	Brine	5.3	350
115	1	3	—	10	20	—	—*	Brine	5.4	—
116	330	707	5-Spot	20	10,294	16,000	Tar Springs	Brine	9.0	333
117	4*	22	5-Spot	20	35	400	Source Well & Produced	Brine	2.4	5
118	1	4	5-Spot	20	40	50	Tar Springs	Brine	8.4	495
119	3	4	5-Spot	—	80	80	Tar Springs	Brine	4.2	70

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,500	16.5	13.5	40	38.6	3.88 @ 100°F.		81
400	22	19.2	225	33	13.6—	*Corrected figure.	82
450	10-30	20.8	399	33.9	19	*As of April 30, 1955. Previously subjected to gas injection.	83
480	22	18.3	66	33	10 @ 70°F.	*As of April 30, 1955. Previously subjected to gas injection.	84
440	19	19.8	252	34.5	17 @ 67°F.	*Project temporarily shut down since 2-15-54. Sold to Dearborn Oil and Gas Co.	85
425	17	20.6	415	33.9	10.7 @ 70°F.	*Corrected figure. Subjected to gas injection 1946-47.	86
490	48	16.6	319	29.2	14.7 @ 77°F.	Previously subjected to gas injection.	87
465	35	18.91	312	29.7	21 @ 65°F.		88
420-500	19-15-30	20.6	294	—	—		89
507	33	18.2	277	29.7	25.5 @ 65°F.	Previously subjected to air injection.	90
467	35.5	18.6	285	29.7	25.5 @ 65°F.		91
3,100	10	15.5	850	—	—	*Corrected figure.	92
1,750	14	13.4	21.9	34.7	6.7 @ 81°F.	*Corrected figure.	93
2,403	15	20.6	134	37.5	4.6 @ 91°F.	*Injection temporarily shut down Sept., 1955.	94
2,950	13	20	155	39	3.5 @ 97°F.	*Includes primary production since start of flood.	95
2,600	26	18	125	—	—		96
2,520	10	—	—	—	—		97
900	18-20	18	125	36	—	*Includes 6 line wells with Ohio. †Includes primary production since 2-1-55.	98
1,375	22-24	14.2	28	36	—		
1,520	25	20.8	33	38.6	3.5 @ 86°F.	*Corrected figure. †Since 1-1-55.	99
1,535	50	18.5	70	39.5	5 @ 85°F.	*Injection shut down June, 1955. †Corrected figure.	100
1,625	18	17.2	60	37.8	5.2 @ 80°F.		101
{ J. 1,428	J. 8	J. 18.4	J. 95	—	5 @ 85°F.	*Includes primary production since start of flood.	102
{ B. 1,611	B. 14.5	B. 14.6	B. 13				
{ R. 1,632	R. 15	R. 18.5	R. 17.2	37	—		103
1,400	18.5	17.3	17.5				
860	25	22.3	148	37	—		104
—	—	20	Varied	—	—	*Includes primary production since start of floods. Previously subjected to gas injection.	105-108
—	—	20	—	—	—	*Includes primary production since start of floods.	109-
1,580	25	21.2	125	38.6	4.1 @ 85°F.	*Temporarily shut down since start of flood. Dump flood.	110-111
{ 1,320	22.7	20.1	62	34.7	4.3 @ 81°F.	*Project temporarily shut down since 8-24-54. Pilot flood. Sold to Oldfield Oil.	112
{ 1,384	10	20.8	29				
520	15	—	—	33.5	—	*Shut down from 10-15-54 to 5-15-55.	113
1,558 & 1,584	25	—	—	37	—	*Corrected figure, previously subjected to gas injection.	114
1,492	30	—	—	—	—	*Water supplied by Carter, previously subjected to gas injection.	115
1,500	30	20	105	38	2.6 @ 79°F.	Previously subjected to gas injection.	116
1,560	20	18	—	36	—	*Increased from 1 to 4 inputs in Oct., 1955.	117
1,450	27	—	—	38	—		118
1,550	30	—	—	36	—		119

TABLE 14.—

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
120	Louden	Shell	Louden S. Flood Unit	Cypress(S)	Fayette
121	Main Consol.	Arkansas Fuel	North Morris	Robinson(S)	Crawford
122	Main Consol.	Ashland	Birds #1	Robinson(S)	Crawford
123	Main Consol.	Bell Bros.	Barrick	Robinson(S)	Crawford
124	Main Consol.	Calvan American	Bishop	Robinson(S)	Crawford
125	Main Consol.	Calvan American	Grogan	Robinson(S)	Crawford
126	Main Consol.	Calvan American	Mitchell	Robinson(S)	Crawford
127	Main Consol.	E. Constantine	J. S. Kirk	Robinson(S)	Crawford
128	Main Consol.	E. Constantine	Sanders	Robinson(S)	Crawford
129	Main Consol.	E. Constantine	Short	Robinson(S)	Crawford
130	Main Consol.	E. Constantine	Smith	Robinson(S)	Crawford
131	Main Consol.	E. Constantine	Wood	Robinson(S)	Crawford
132	Main Consol.	D. W. Franchot	Birds Flood*	Robinson(S)	Crawford
133	Main Consol.	G. M. J.	Porterville	Robinson(S)	Crawford
134	Main Consol.	Kewanee	Wright	Robinson(S)	Crawford
135	Main Consol.	A. J. Leverton	Stanfield	Robinson(S)	Crawford
136	Main Consol.	Logan	Alexander, Reynolds	Robinson(S)	Crawford
137	Main Consol.	Mahutska Oil	Center	Robinson(S)	Crawford
138-					
149	Main Consol.	Ohio	12 Projects	Robinson(S)	Crawford
150	Main Consol.	Partlow & Cochonour	Rich	Robinson(S)	Crawford
151	Main Consol.	Petroleum Producing	—	Robinson(S)	Crawford
152	Main Consol.	W. L. Pickens	Hughes-Robinson	Robinson(S)	Crawford
153	Main Consol.	Red Head	"DIM"	Robinson(S)*	Crawford
154	Main Consol.	Ree*	Culver	Robinson(S)	Crawford
155	Main Consol.	Ree	Culver (Extension)	Robinson(S)	Crawford
156	Main Consol.	Ree*	Little John	Robinson(S)	Crawford
157	Main Consol.	Ree*	Meserve†	Robinson(S)	Crawford
158	Main Consol.	E. C. Reeves	Billingsley	Robinson(S)	Crawford
159	Main Consol.	Shakespeare	McIntosh Unit	Robinson(S)	Crawford
160	Main Consol.	Shakespeare	Montgomery Unit	Robinson(S)	Crawford
161	Main Consol.	Skiles	Correll-Gurley*	Robinson #4(S)	Crawford
162	Main Consol.	Skiles	Weger	Robinson(S)	Crawford
163	Main Consol.	Tide Water	Barrick-Walters	Robinson(S)	Crawford
164	Main Consol.	Tide Water	Birch #1	Robinson(S)	Crawford
165	Main Consol.	Tide Water	Birds Area	Robinson(S)	Crawford

(Continued)

Information				Production and Injection Statistics (Barrels)						Map No.
Location			Date first injection	Secondary recovery						
Section	Twp.	Rng.		Water injection		Oil production		Water production		
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
21, 28, 29	7N	3E	Mar., 1955	878,616	878,616	85,053	85,053	199,386	199,386	120
2	7N	13W	April, 1951	93,481	664,551	1,022	26,276	66,300	417,283	121
9, 10, 15, 16	5N	11W	May, 1954	3,035,097	5,036,208	88,936	115,234	1,136,800	1,210,048	122
13	7N	13W	Oct., 1954	67,101	80,126	None	None	None	None	123
20	8N	12W	Nov., 1953	151,958	238,883	4,173	4,608*	39,420	39,420†	124
4, 9	7N	13W	Oct., 1953	57,568	193,513	377	1,098*	5,110	5,110†	125
24, 25	7N	13W	June, 1953	116,798	268,130*	11,618	22,803†	22,844	31,127	126
29, 30, 31, 32	7N	12W	Aug., 1951	234,209	466,522	10,315	23,030	76,230	148,230*	127
1, 2, 3	5N	13W	Aug., 1952	1,546,814	4,026,450	22,833	56,973	589,400	949,400*	128
26, 34, 35, 36	6N	13W	Feb., 1952	1,004,465	2,534,107	67,903	143,667	233,380	341,380*	129
5, 6	6N	13W								
31, 32	7N	13W								
7	7N	12W	Mar., 1954	126,037	276,522	640	797	365	665	130
12	7N	13W								
31, 32	8N	12W	Aug., 1952	795,358	2,279,783	20,856	64,350	209,870	333,870*	131
21, 22	5N	11W	June, 1951	1,765,674	4,875,187	116,008	252,837	—	400,000	132
25, 36	8N	13W	May, 1954	188,246	267,719*	2,789	3,879†	—	—	133
23, 26	6N	13W	Jan., 1953	340,770	1,004,641	766	1,760	82,779	187,978	134
17	8N	12W	June, 1952	—	46,800*	—	430*	—	5,300*	135
20	7N	12W	Dec., 1951	535,343	1,073,799	65,537	133,833	139,310	216,960	136
10 & 15	6N	13W	Jan., 1954	1,064,900	1,530,900	93,695	99,907	78,000*	—	137
—	—	—	—, 1948	12,262,392	40,954,520	634,567	2,945,433	4,081,047	12,810,379	138-
35	6N	12W	Oct., 1954	72,000	78,000	4,930	5,000	2,400	2,580	149
29, 32	8N	12W	Sept., 1951	90,000	354,855	None	None	None	None	151
22, 27, 28	6N	13W	June, 1951	863,268	2,202,288	42,730	131,655	197,637	412,743	152
25, 26	6N	13W	July, 1953	710,155	1,086,135	16,336	20,175	—	—	153
5, 6, 7	7N	12W	Feb., 1953	213,511	682,676	* 688	2,497†	28,733	66,203	154
18	7N	12W	Mar., 1954	*	72,206	*	None	*	None	155
20	6N	12W	Oct., 1952	111,542	257,022	5,331	6,094	18,796	25,414	156
11	6N	12W	Nov., 1953	60,535	250,500	355	1,183	12,673	39,083	157
34, 35	7N	13W	Dec., 1953	437,324	809,152	12,964	23,387	6,240	6,885	158
17, 18, 19, 20	6N	12W	July, 1954	64,675	92,965	2,881	2,881	20,000	22,675*	159
4	5N	12W	May., 1954	79,517	121,864	2,455	2,504*	11,750	17,450†	160
32, 33	6N	12W								
10	7N	12W	July, 1951	203,556*	1,207,325*	4,319*	29,756*	71,650*	226,810*	161
18, 19	5N	11W	Nov., 1952	281,691	724,798	4,035	5,882	56,800	96,800*	162
13, 24	5N	12W								
19	7N	12W	Mar., 1954	258,452	447,835	18,212	25,168*	24,640	38,440*	163
14	6N	13W	Aug., 1954	145,818	201,002	22,459	27,782*	8,175	10,455*	164
16, 20, 21	5N	11W	Feb., 1952	272,260	755,195	51,308	89,460*	547,400	788,445*	165

TABLE 14.—

Map No.	Development as of 12-31-55						Injection Water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
120	20	21	5-Spot	20	350	590	Tar Springs	Brine	8.5	24
121	5	7	Modified 5-Spot	4.4	44	100	Buchanan	Brine	4.3	485
122	67	53	5-Spot	10	530	580	Penn. Sand	Brine	4.1	508
123	1	6	5-Spot	—	20	40	Cypress Sand & Produced	Fresh & Brine	3.3	116
124	6	3	5-Spot	10	20	474	Penn. Sand	Brine	3.1	313
125	8	5	5-Spot	10	27.5	231	Penn. Sand	Brine	0.9	146
126	13	18	5-Spot	10	62.5	240.3	Penn. Sand	Brine	—	368
127	14	23	5-Spot	10	80	540	City Water	Fresh	0.9	285
128	72	101	5-Spot	10	650	1,640	Lower Penn.	Brine	2.9	304
129	26½	33	5-Spot	10	160	533	Lower Penn. 300' Sand	Brine	3.5	308
130	6	5	5-Spot	10	50	280	Surface Water	Fresh	2.3	321
131	24	30	5-Spot	10	210	425	Lower Penn.	Brine	2.9	342
132	58	57	5-Spot	10	440	1,600	Gravel Bed & Wabash R.	Fresh	—	290
133	3	13	5-Spot	—	40	550	Lake & Produced	Fresh & Brine	5.7	546
134	15	34	5-Spot	10	113	210	Lake & Produced	Fresh & Brine	4.1	446
135	3	3	5-Spot	4.4	20	140	Shallow Sand & Produced	Fresh & Brine	—	—
136	20	23	5-Spot	—	90	330	Cypress	Brine	3.3	420
137	35	45	5-Spot	4.45	170	650	Surface & Produced	Fresh & Brine	4.3	292
138-149	342	406	5-Spot	10	2,210	—	Gravel Beds & Produced	Brine & Fresh	—	—
150	3	7	Line	5	40	100	Penn. Sand	Brine	5.5	200
151	4	2	5-Spot	10	40	700	Shallow Sand & Pond	Fresh	4.1	300
152	15	12	5-Spot	10	40	298	Shallow Sand	Fresh	5.3	450
153	18	14	5-Spot	10	103	—	230' Sand & Surface	Fresh & Brine	10.8	400
154	8	8	5-Spot	10	20	710	Lake	Fresh	—	—
155	2	0	5-Spot	4.5	6	114	Lake	Fresh	—	—
156	3	9	Irregular	4.5	13	100	Lake & Water Well	Fresh	—	—
157	4	4	5-Spot	10	10	525	Penn. Sand	Brine	—	—
158	6	7	5-Spot	10	115	350	Base of Penn.	Brine	10.0	187
159	2	9	Peripheral	4.7	16	88	Penn. Sand	Brine	8.8	95
160	2	8	Modified 5-Spot	6-10	20	85	Robinson(S)	Brine	—	352
161	18*	17	5-Spot	10	180	—	Creek & Penn. Sand	Fresh & Brine	3.1*	—
162	9	11	5-Spot	10	90	110	Creek & Produced	Fresh & Brine	4.3	450
163	8	27	5-Spot	10	64	300	Mississippian	Brine	4.7	366
164	4	11	5-Spot	10	35	60	Gravel Bed	Fresh	7.1	268
165	15	49	5-Spot	10	137	277	Tar Springs	Brine	2.8	421

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
1,550	18.4	20.4	164.2	36.6	4.7 @ 60°F.	Previously subjected to gas injection.	120
983	12	21	243	32	73 @ 65°F.		121
950	30	21	136	31	15 @ 75°F.		122
960	56	19.2	126	—	—	Previously subjected to gas injection.	123
950	22.4	22.1	156	35.7	10 @ 78°F.	*Corrected figure and includes primary production since 1-1-54. †Since 1-1-55.	124
950	22.4	22.1	156	35	10 @ 78°F.	*Corrected figure and includes primary production since 1-1-53. †Since 1-1-55.	125
880	22	23.8	94	33.2	10 @ 78°F.	*Corrected figure. †Includes primary production since 1-1-53.	126
900	50	17.0	170	34	—	Previously subjected to gas injection. *Since 1-1-54.	127
880	20	21	205	32	—	Previously subjected to gas injection. *Since 1-1-54.	128
850	30	22	130	32	—	Previously subjected to gas injection. *Since 1-1-54.	129
900	25	18	70	34	—	Previously subjected to gas injection.	130
850	30	21	105	32	—	Previously subjected to gas injection. *Since 1-1-54.	131
950	24	18.9	162	31.7	21 @ 60°F.	*Includes Yingling Lindsay flood since 4-1-55 (see Map No. 178).	132
900	30	17.2	45	38.6	—	*Corrected figure. †Includes primary production since start of flood.	133
900	15	20	245	—	—	Previously subjected to gas injection.	134
977	30	23	57	36	—	*As of 1-1-54.	135
940	22	20.5	167	36	7 @ 80°F.	*Estimated. Previously subjected to gas injection.	136
925	20	19	70	33	—		137
—	—	20	—	—	—	Previously subjected to gas injection.	138-149
1,006	12	24.3	240	26	—		150
1,000	15	20	75	—	—		151
850	30	19.5	125	32	10 @ 80°F.		152
830	10	—	—	31	—	*Upper and lower Robinson flooded together. Previously subjected to gas injection.	153
950	50	22.7	101	—	10 @ 78°F.	*Operated by National Cylinder & Gas prior to 12-1-55. †Includes primary production since 1-1-53.	154
945	14	20.8	154	32.4	—	*Temporarily shut down during 1955.	155
850	24	20	50	—	10 @ 70°F.	*Operated by Davison & Ryerson prior to 12-1-55. Previously subjected to gas injection.	156
950	22.7	21.9	89	—	10 @ 79°F.	*Operated by National Cylinder & Gas prior to 12-1-55. †Temporarily shut down since May, 1955.	157
925	20	30	45	35	—		158
900-950	12	—	—	32.6	11 @ 75°F.	*Estimated. Previously subjected to gas injection.	159
975	25.8	22.6	150	28.3	23 @ 71°F.	*Corrected figure. †Estimated.	160
1,035	20	22.2	100	33	13.5—	*Abandoned 9-55. Previously subjected to gas inj.	161
900	20	17	37	—	—	*Estimated.	162
950	19	20	152	35	7 @ 60°F.	*Corrected figure.	163
881	14	19.1	108	32	—	*Corrected figure.	164
950	18	19.4	197	30.1	—	*Corrected figure. Subjected to gas injection 1946-52.	165

TABLE 14.—

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
166	Main Consol.	Tide Water	Clark-Hulse	Robinson(S)	Crawford
167	Main Consol.	Tide Water	Dennis-Hardin	Robinson(S)	Crawford
168	Main Consol.	Tide Water	Henry-Ikemire	Robinson(S)	Crawford
169	Main Consol.	Tide Water	W. A. Howard	Robinson(S)	Crawford
170	Main Consol.	Tide Water	Lefever-Musgrave	Robinson(S)	Crawford
171	Main Consol.	Tide Water	Montgomery & Seitzinger	Robinson(S)	Crawford
172	Main Consol.	Tide Water	Stahl-Walters	Robinson(S)	Crawford
173	Main Consol.	Tide Water	Stifle-Drake	Robinson(S)	Crawford
174	Main Consol.	Tide Water	G. L. Thompson	Robinson(S)	Crawford
175	Main Consol.	G. H. Wickham	J. C. Wilson	Robinson(S)	Crawford
176	Main Consol.	Wilson	Hughes-Walker	Robinson(S)	Crawford
177	Main Consol.	Wiser	H. J. Musgrave	Robinson(S)	Crawford
178	Main Consol.	Yingling*	Lindsay	Robinson(S)	Crawford
179	Maple Grove Consol.	Ashland	Bennington	McClosky(L)	Edwards
180	Maple Grove Consol.	Investment Oil	—	McClosky(L)	Edwards
181	Markham City	Tide Water	Newton	McClosky(L)	Jefferson
182	Markham City West	Gulf	W. Markham City Unit	Aux Vases(S) McClosky(L)	Jefferson
183	Martinsville	Magnolia	Carper*	Carper(S)	Clark
184	Martinsville	Magnolia	Casey*	Casey(S)	Clark
185	Mattoon	Carter	Mattoon	Cypress(S), Rosiclare(S)	Coles
186	Mattoon	Noknil*	Mattoon	Rosiclare(S)	Coles
187	Maunie South	Magnolia	Maunie Co-op.*	Tar Springs(S)	White
188	Maunie South	Magnolia	Palestine	Palestine(S)	White
189	Maunie South	Magnolia	Tar Springs	Tar Springs(S)	White
190	Maunie South	Magnolia	Tar Springs Unit # 2*	Tar Springs(S)	White
191	Mill Shoals	Sohio	B. R. Gray, Trustee	Aux Vases(S)	Hamilton
192	Mt. Carmel	G. S. Engle	G. Dunkel	Biehl(S)	Wabash
193	Mt. Carmel	First Nat'l Pet. Trust	Shaw Courter	Biehl(S)	Wabash
194	Mt. Carmel	First Nat'l Pet. Trust	Shaw Courter	Cypress(S)	Wabash
195	Mt. Carmel	T. W. George	North Mt. Carmel	Cypress(S)	Wabash
196	Mt. Carmel	O'Meara Brothers	Mt. Carmel	Cypress(S)	Wabash
197	Mt. Carmel	Shell	Mt. Carmel	Cypress(S)	Wabash
198	Mt. Carmel	Skiles	Chapman-Courter	Cypress(S)	Wabash
199	Mt. Carmel	Texas	Stein	Tar Springs(S)	Wabash
200	New Harmony Consol.	Calstar	Ford "B"*	Aux Vases(S)	White

WATERFLOOD OPERATIONS

(Continued)

Information				Production and Injection Statistics (Barrels)						Map No.
Location			Date first injection	Secondary recovery						
Section	Twp.	Rng.		Water injection		Oil production		Water production		
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
18	7N	13W	Jan., 1952	387,656	910,279*	55,599	122,824*	144,950	280,767*	166
27, 34	6N	13W	Aug., 1950	480,255	2,114,478*	117,191	376,875*	344,700	998,187*	167
10, 15	7N	13W	Feb., 1948	367,296	2,645,463*	32,888	366,804*	227,530	1,815,311*	168
11	7N	13W	Dec., 1952	98,484	290,952*	5,414	23,494*	32,815	123,425*	169
13	7N	14W	Feb., 1954	125,306	267,862	30,024	34,339*	10,830	18,355*	170
15, 16	5N	11W	May, 1954	42,610	85,593	2,362	3,454	22,875	37,455	171
13, 14	7N	13W	Nov., 1954	47,136	55,542	2,792	2,956	8,845	9,090*	172
10	7N	13W	June, 1952	184,618	654,387	10,357	22,140*	56,280	152,706	173
26, 27	6N	13W	Sept., 1952	305,441	598,914*	22,356	36,918*	53,680	74,122*	174
7, 8, 17, 18	7N	12W	—, 1955	*	—	None	None	—	—	175
26	6N	13W	Aug., 1950	—	—	—	39,604*	—	56,290*	176
18	7N	12W	Oct., 1955	18,383	18,383	None	None	None	None	177
16	5N	11W	Aug., 1950	—	2,252,848†	—	91,900†	—	—	178
7	1N	10E	Sept., 1952	65,700	215,780*	30,009	68,073†	—	—	179
8, 9	1N	10E	July, 1955	*	*	80	80	220	220	180
1	3S	4E	Aug., 1955	*	*	None	None	None	None	181
3, 4, 9, 10	3S	4E	April, 1954	184,419	327,860	14,081	18,023*	83,589	116,565	182
30	10N	13W	Jan., 1951	*	1,110,949*	321*	10,376*	1,239*	9,605*	183
19	10N	13W	Aug., 1950	*	872,185*	*	2,345*	*	33,505*	184
35	12N	7E	May, 1952	1,657,010	2,777,496	135,850	215,399	266,370	442,363*	185
22	12N	7E	Nov., 1950	—	248,682†	—	3,571†	—	86,926†	186
24	6S	10E	Nov., 1955	32,340	32,340	1,522†	1,522	19,573	19,573	187
19	6S	11E	Feb., 1953	1,889,804	4,222,185	532,529	1,182,557*	1,430,400	1,706,527	188
13, 24	6S	10E								
24	6S	10E								
19	6S	11E								
24	6S	10E	Aug., 1947	441,957	4,504,829	12,296	784,563*	343,136	1,981,159	189
19	6S	11E	Nov., 1949	*	639,215*	*	60,344*	*	208,636*	190
24	6S	10E								
19	6S	11E								
1	4S	7E	May, 1952	270,301	876,524	85,937	223,781*	81,720	151,081	191
5	1S	12W	June, 1952	56,944	132,554*	6,458	23,100†	10,950	20,950*	192
7	1S	12W	Feb., 1950	44,808	306,486	5,360	65,602	18,980	148,325	193
7	1S	12W	April, 1953	54,405	212,742	12,252	26,271	3,916	9,463	194
4, 5	1S	12W	Aug., 1955	45,532	45,532	None	None	None	None	195
17	1S	12W	July, 1954	354,451	547,403	19,794	19,819	73,652	73,652*	196
17, 18	1S	12W	July, 1954	943,597	1,331,297	90,161	90,040*	61,025	63,018	197
7, 18	1S	12W	Jan., 1955	208,136	208,136	39,098	39,098*	9,120	9,120	198
5, 8	1S	12W	Feb., 1952	118,683	339,140	22,399	61,833	108,876	170,573	199
21	4S	14W	Mar., 1953	47,214	152,020	8,844	8,844	1,375	1,375	200

TABLE 14.—

Map No.	Development as of 12-31-55					Injection Water				
	No. of wells		Injection pattern	Spacing acres per input well	Producing acreage		Source	Type	Avg. bbls. per day per well	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
166	13	19	5-Spot	7	59	98	Gravel Bed	Fresh	4.1	373
167	10	18	5-Spot	10	89	93.5	—	Fresh	3.9	375
168	22	44	5-Spot	4.4	91	115	Gravel Bed & Penn. Sand	Fresh & Brine	3.3	472
169	7	10	5-Spot	10	50	90	Gravel Bed & Penn. Sand	Fresh & Brine	3.0	438
170	10	14	5-Spot	10	50	110	—	Fresh	1.7	368
171	2	11	—	—	20	40	Tar Springs	Brine	4.2	535
172	3	7	—	—	35	80	Gravel Bed	Fresh	2.3	422
173	6	22	5-Spot	10	22	160	Penn. Sand	Brine	5.6	439
174	4	8	5-Spot	10	40	40	Gravel Bed	Fresh	10.0	432
175	4	5	Line Wells	10	50	—	Gravel Beds & Produced	Fresh & Brine	—	—
176	8†	8	—	—	40†	40	Gravel Beds & Produced	Fresh & Brine	—	—
177	2	7	5-Spot	10	40	160	Gravel Beds	Fresh	3.4	87
178	—	—	5-Spot	4.4	—	—	1,300' Sand	Brine	—	—
179	1	6	Flank	—	110	110	Produced	Brine	37.1	—
180	1	4	—	—	20	118	Perf. 542-48, 573-85, 600-606	Fresh	—	—
181	1	1	—	—	40	40	Cypress	Brine	—	—
182	4†	21	Flank	—	A.V.-154 McCL.- 100	A.V.-302 McCL.- 230	Cypress	Brine	—	347 0
183	4*	1	5-Spot	10	10	50	Gravel Bed	Fresh	—	—
184	8*	3	5-Spot	10	23	110	Gravel Bed	Fresh	—	—
185	28	32	5-Spot	20	451	570	Sewage Effluent & Produced	Fresh & Brine	12.5	669
186	2†	5	Irregular	—	30	60	Produced	Brine	—	—
187	2	5	Irregular	—	30	30	Gravel Bed	Fresh & Brine	—	—
188	21	22	5-Spot	20	237	430	Gravel Bed	Fresh	—	—
189	12	12	5-Spot	20	230	240	Gravel Bed & Produced	Fresh & Brine	—	—
190	3*	2	5-Spot	20	50	50	Gravel Bed	Fresh & Brine	—	—
191	8	7	5-Spot	20	170	170	Gravel Bed	Fresh	8.4	243
192	2	3	Modified	29	87	68	Shallow Sand	Fresh	11.6	625
193	1	2	Spot	10	30	30	Shallow Sand & Produced	Fresh & Brine	7.7	—
194	1	4	Spot	10	50	50	—	Fresh	12.4	—
195	3	4	5-Spot	20	70	70	Penn. Sand @ 800'	Brine	8.7	283
196	6	15	—	—	234	—	Shallow Sand	Fresh	12.4	499
197	20	27	5-Spot	20	325	570	Gravel Bed	Fresh	9.5	250
198	4	7	Peripheral	—	100	100	River & Produced	Fresh & Brine	7.5	337
199	2	8	Flank	—	30	73	Shallow Sand & Produced	Fresh & Brine	14.0	973
200	1	4	—	20	20	80	Gravel Bed	Fresh	3.2	1,346

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
910	20	19.9	278	34	—	*Corrected figure. Subjected to gas injection since 1941.	166
875	34	19.8	178	32.7	—	*Corrected figure. Subjected to gas injection 1932-50.	167
935	14	21	175	35	7 @ 60°F.	*Corrected figure. Subjected to gas injection 1934-48.	168
950	13	19.6	184	35.3	—	*Corrected figure. Subjected to gas injection 1935-53.	169
910	20	20.0	250	34	—	*Corrected figure.	170
979	14	19	144	32	—		171
987	19	—	—	—	—	*Corrected figure.	172
980	15	18.2	221	33.5	—	*Corrected figure. Subjected to gas injection since 1934.	173
860	21	19.8	108	33	—	*Corrected figure.	174
—	—	—	—	—	—	*Included in Ohio Oil Co. figures. Previously subjected to gas injection.	175
880	25	19	83	32	—	*As of 1-1-55. †Due to Ohio line input wells. Previously subjected to gas injection.	176
1,010	30	21.1	334	—	—		177
960	31	19.1	135	31.6	17 @ 80°F.	*Sold to D. W. Franchot. †As of 1-1-55.	178
3,100	5	—	—	38	—	*Corrected figure. †Includes primary production since start of flood.	179
3,275	5	—	—	36	—	*Dump flood.	180
3,080	6	—	—	—	—	*Dump flood.	181
A.-2,900	A.-11.8	A.-22.1	A.-269	A.-38	A.-3.2 @ 99° F.	*Corrected figure. †Three dual injection wells.	182
M.-3,000	M.-7	M.-15.4	M.-230	M.-38	M.-2.8 @ 104°F.		
1,334	—	—	—	—	—	*Project abandoned Feb., 1955.	183
464	—	—	—	—	—	*Project abandoned Feb., 1955.	184
{1,750	13	16	84	39	1.7 @ 85°F.	*Corrected figure.	185
1,950	—	—	—	—	—		
1,952	10	15	990	37	—	*Operated by Phillips prior to 1-1-55. †As of 1-1-55.	186
2,275	—	—	—	—	—	*Cooperative flood with Skelly. †Includes primary production since start of flood.	187
2,010	—	—	—	—	—	*Includes primary production since start of flood.	188
2,270	—	—	—	37.3	4.6 @ 89°F.	*Corrected figure includes primary production since start of flood.	189
2,275	—	—	—	—	—	*Project abandoned.	190
3,245	11	21	—	—	—	*Includes primary production since 1-1-53.	191
1,500	6.7	15.3	310	36.6	3.9 @ 104°F.	*Does not include 1954 data.	192
1,375	16	—	—	40.2	4.7 @ 70°F.	†Includes primary production since start of flood.	193
2,050	12	—	—	—	—		194
2,000	14	—	—	35.4	—		195
2,140	13	—	—	33	—	*Since 1-1-55.	196
2,075	13.6	19	182	38.8	—	*Corrected figure. 1954 production 121 bbls. below normal.	197
2,230	19	18.2	147	—	—	*Includes primary production since start of flood.	198
2,040	11.6	18.9	221	36	4.0		199
2,850	40	—	—	33.1	3.7 @ 98°F.	*Cooperative pilot flood with Sun.	200

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
201	New Harmony Consol.	Calstar	Ford "B"*	Bethel(S)	White
202	New Harmony Consol.	T. W. George	East Maud	Bethel(S)	Wabash
203	New Harmony Consol.	T. W. George	East Maud	Cypress(S)	Wabash
204	New Harmony Consol.	Herndon & Ashland	Calvin	Aux Vases(S)	White
205	New Harmony Consol.	Inland	Bowman's Bend Unit	Tar Springs(S)	White
206	New Harmony Consol.	Luboil	Helm	Waltersburg(S)	Wabash
207	New Harmony Consol.	Luboil	Helm	Bethel(S)	Wabash
208	New Harmony Consol.	Luboil	Helm	Aux Vases(S)	Wabash
209	New Harmony Consol.	Phillips	Schultz	Upper Cypress(S)	Wabash
210	New Harmony Consol.	Phillips	Schultz	Lower Cypress(S)	Wabash
211	New Harmony Consol.	Skiles	East Maud	Bethel(S)	Wabash
212	New Harmony Consol.	Skiles	East Maud	Cypress(S)	Wabash
213	New Harmony Consol.	Skiles	Siegert Bottoms	Bethel(S)	Wabash- Edwards
214	New Harmony Consol.	Skiles	Smith-Davenport	Cypress(S)	White
215	New Harmony Consol.	Skiles	West Maud	Bethel(S)	Wabash
216	New Harmony Consol.	Sun	Ford "B"*	Aux Vases(S)	White
217	New Harmony Consol.	Sun	Ford "B"*	Bethel(S)	White
218	New Harmony Consol.	Sun	Greathouse	Bethel(S)	White
219	New Harmony Consol.	Sun	Greathouse	Cypress(S)	White
220	New Harmony Consol.	Sun	Greathouse	McClosky(L)	White
221	New Harmony Consol.	Superior	Kern-Hon Unit	Upper Tar Springs(S)	White
222	New Harmony Consol.	Superior	Waltersburg Sand Unit	Waltersburg(S)	White-Ill. Posey-Ind.
223	New Harmony Consol.	Tide Water	E. S. Dennis "A"	Bethel(S)	White
224	New Harmony Consol.	Tide Water	O. R. Evans	Aux Vases(S)	White
225	New Haven Consol.	Hiawatha	New Haven Unit	Cypress(S)	White
226	New Haven Consol.	Hiawatha	New Haven Unit	Tar Springs(S)	White
227	Odin	Ashland	Odin	Cypress(S)	Marion
228	Olney	Texas	East Olney Unit	McClosky(L)	Richland
229	Oskaloosa	Texas	Oskaloosa Unit	Benoist(S)	Clay
230	Parkersburg Consol.	Calvert	Parkersburg	McClosky(L)	Richland
231	Parkersburg Consol.	Ohio	Parkersburg Unit*	McClosky(L)	Richland
232	Patoka	Sohio	Patoka-Benoist	Benoist(S)	Marion
233	Patoka	Sohio	Patoka-Rosiclare	Rosiclare(S)	Marion
234	Patoka	Sohio	Stein Unit	Cypress(S)	Marion
235	Phillipstown Consol.	C. E. Brehm	Phillipstown Unit "A"	Pennsylvanian	White
236	Phillipstown Consol.	C. E. Brehm	Phillipstown Unit "B"	Cypress(S)	White
237	Phillipstown Consol.	British American	North Calvin	Penn # 7(S)	White
238	Phillipstown Consol.	Magnolia	Schmidt-Seifried	Biehl(S)	White
239	Phillipstown Consol.	Phillips	Flora	Degonia(S)	White
240	Phillipstown Consol.	Phillips	Laura	Bethel(S)	White
241	Phillipstown Consol.	Skiles	L. O. Cleveland	Tar Springs(S)	White
242	Phillipstown Consol.	Sun	Phillipstown	Clore(S)	White
243	Phillipstown Consol.	Yingling	Gravville Unit	Cypress(S)	White
244	Roland Consol.	Carter	S. W. Roland Unit	Waltersburg(S)	White
245	Roland Consol.	Carter	Stokes Unit	Hardinsburg(S)	White

(Continued)

Information				Production and Injection Statistics (Barrels)						Map No.
Location			Date first injection	Secondary recovery						
Section	Twp.	Rng.		Water injection		Oil production		Water production		
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
21	4S	14W	Mar., 1953	90,884	273,014	31,645	52,853	54,840	67,939	201
32, 33	1S	13W	July, 1952	12,298	83,045	14,984	42,668*	—	—	202
32, 33	1S	13W	Jan., 1955	5,845	5,845	14,984	42,664*	—	—	203
8	4S	14W	Nov., 1952	691,120	1,187,474	67,784	89,133*	—	—	204
15, 16, 21, 22	5S	14W	Dec., 1953	747,465	1,240,057	202,405	333,498*	182,241	260,080	205
22	3S	14W	Dec., 1950	—	—	—	—	—	—	206
22	3S	14W	Dec., 1951	—	—	—	—	—	—	207
22	3S	14W	Dec., 1951	—	—	—	—	—	—	208
7	3S	13W	May, 1952	138,418	618,792	2,707	39,643	61,603	241,888	209
7	3S	13W	July, 1951	490,219	1,780,341	19,715	95,597	398,827	1,170,217	210
4, 5	2S	13W	April, 1952	187,427	566,521	43,936	156,436	18,250	60,700	211
32, 33	1S	13W	Nov., 1952	74,575	288,026	24,263	40,648	54,900	140,300*	212
4, 5	2S	13W	Nov., 1952	74,575	288,026	24,263	40,648	54,900	140,300*	212
32, 33	1S	13W	Nov., 1952	74,575	288,026	24,263	40,648	54,900	140,300*	212
34	2S	14W	Oct., 1951	298,987	1,395,267	81,452	309,898*	47,510	96,190	213
2, 3, 10	3S	14W	Oct., 1951	298,987	1,395,267	81,452	309,898*	47,510	96,190	213
15	4S	14W	May, 1955	90,757	90,757*	None	None	None	None	214
5	2S	13W	Oct., 1950	329,515	1,265,570	32,107	295,937	59,360	195,160	215
32	1S	13W	Oct., 1950	329,515	1,265,570	32,107	295,937	59,360	195,160	215
21	4S	14W	Mar., 1953	25,531	110,996	2,752	2,752	184	184	216
21	4S	14W	Mar., 1953	90,526	223,134	23,824	28,741	19,580	21,296	217
33	4S	14W	Jan., 1949	314,011	2,223,126	38,460	177,293	131,200	1,645,085	218
4	5S	14W	Jan., 1949	314,011	2,223,126	38,460	177,293	131,200	1,645,085	218
33	4S	14W	Jan., 1953	122,391	330,446	—	—	13,980	13,980	219
33	4S	14W	Aug., 1947	115,993	989,362	13,564	124,938	30,340	198,123	220
4	5S	14W	Aug., 1947	115,993	989,362	13,564	124,938	30,340	198,123	220
32, 33	4S	14W	Feb., 1954	184,528	346,154	107,813	182,474	39,687	49,027	221
4, 5, 9, 10	5S	14W	Aug., 1946	3,687,040*	13,285,094*	1,093,554*	2,259,128*	613,162*	1,607,348*	222
28, 33	4S	14W	July, 1951	1,583,557	6,082,829	63,662	386,286	379,051	910,421	223
4 & 5	4S	14W	Oct., 1949	192,769	817,408	18,627	95,475	56,679	175,052	224
17	7S	11E	July, 1954	175,246	276,589	66,943	71,845*	2,931	3,531	225
17	7S	11E	July, 1954	12,894	16,810	2,790	7,875*	954	1,254	226
1, 12, 13	2N	1E	Oct., 1949	527,221	2,607,245	76,858	1,092,891	—	—	227
6, 7, 18	2N	2E	Oct., 1949	527,221	2,607,245	76,858	1,092,891	—	—	227
23, 24, 25, 26	4N	10E	Mar., 1951	308,573	906,953	31,420	58,217*	53,453	116,022*	228
26, 27, 34, 35	4N	5E	Jan., 1953	786,240	2,180,701*	194,308	464,468	215,778	353,728*	229
16, 21	2N	14W	Jan., 1955	107,440	107,440	26,458	26,458*	43,025	43,025	230
29	2N	14W	Mar., 1955	704,090	704,090	5,723	5,723	6,241	6,242	231
20, 21, 28, 29	4N	1E	Sept., 1943	3,788,652	39,169,107	78,439	6,150,897	2,402,572	28,245,479	232
21, 28, 29	4N	1E	—, 1948	675,186	4,320,138	64,675	1,254,569*	221,407	1,259,973	233
28	4N	1E	Aug., 1951	118,267	398,601	9,603	45,728*	67,296	234,012	234
19, 30	4S	14W	June, 1952	64,046	235,355	11,254	51,090*	—	—	235
19	4S	14W	Jan., 1954	52,101	80,048	12,289	25,085	—	—	236
31	3S	14W	June, 1951	305,958	1,586,644*	108,623	917,774	226,773	566,284	237
30, 31	3S	11E	May, 1951	138,010	830,521	30,217	365,798*	64,522	244,988	238
24	4S	10E	Sept., 1953	121,121	268,771	16,693	47,332	47,608	121,345	239
19	4S	11E	Mar., 1952	*	30,550*	*	None*	*	None*	240
36	4S	10E	Nov., 1955	6,527	6,527	None	None	None	None	241
6	5S	11E	Dec., 1955	4,189	4,189	None	None	None	None	242
20	3S	14W	Aug., 1954	113,049	166,236	17,371	17,581	500	500	243
14, 15, 16	7S	8E	June, 1955	703,349	703,349	None	None	42,616	42,616	244
5	6S	9E	July, 1954	466,651	674,750	37,334	34,584*	5,530	5,711	245

TABLE 14.—

Map No.	Development as of 12-31-55						Injection Water			
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well per ft.	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
201	1	3	—	20	20	35	Gravel Bed	Fresh	20.7	798
202	2	7	5-Spot	20	90	70	Surface	Fresh	1.1	1,500
203	1	3	5-Spot	20	40	50	Surface	Fresh	1.3	1,500
204	14	18	5-Spot	10	200	250	—	Fresh	—	—
205	4	18	Peripheral	—	200	200	Gravel Bed & Produced	Mixture	26.2	82
206	3	4	Irregular	3.3	10	15	Shallow Sand	Fresh	—	—
207	15	17	5-Spot	12	180	300	Shallow Sand	Fresh	—	—
208	8	10	Irregular 5-Spot	12	50	150	Shallow Sand	Fresh	—	—
209	1	2	—	—	9	30	Shallow Sand & Produced	Fresh & Brine	37.9	758
210	2	5	Irregular	—	21	70	Shallow Sand & Produced	Fresh & Brine	33.6	766
211	8	20	5-Spot	20	250	280	Creek & Shallow Sand	Fresh	7.6	1,442
212	2	12	5-Spot	20	20	100	Creek & Shallow Sand	Fresh	12.8	1,442
213	19	24	5-Spot	20	380	430	Gravel Bed & Produced	Fresh & Brine	2.4	1,483
214	1	2	Irregular	—	30	30	Tar Springs	Brine	37.0	None
215	20	23	5-Spot	20	340	430	Creek & Shallow Sand	Fresh	3.8	1,319
216	1	4	—	—	20	80	Gravel Bed	Fresh	7.0	1,345
217	1	1	—	—	10	20	Gravel Bed	Fresh	20.7	550
218	6	18	5-Spot	20	180	—	Gravel Bed	Fresh	6.2	1,280
219	1*	—	—	—	10	—	Gravel Bed	Fresh	—	1,150
220	1	2	—	—	100	—	Gravel Bed	Fresh	63.5	1,450
221	3	7	Modified Split Line	—	121	121	Gravel Bed	Fresh	12.7	1,150
222	7	24†	Split Line	—	725	725	Shallow Sand & Produced	Fresh & Brine	33.6	1,100
223	18	18	5-Spot	10	160	185	Gravel Bed & Produced	Fresh & Brine*	8.0	1,263
224	4	9	5-Spot	20	140	160	Shallow Sand	Fresh	5.5	1,383
225	6	6	—	—	—	—	Water Well	Fresh	8.0	—
226	3	5	—	—	—	—	Water Well	Fresh	—	—
227	10	20	Perimeter	—	230	290	Tar Springs	Brine	9.6	571
228	3	19	Flank	—	460	515	Weiler Sand & Produced	Brine	53.2	925
229	8	25	Perimeter	10	407	407	Penn. Sand	Brine	19.0	1,377
230	2	7	Random	20	160	160	McClosky	Brine	14.7	—
231	4†	3	Line	—	200	—	—	Brine	—	—
232	65	65	5-Spot	10	527	—	Tar Springs	Brine	5.9	434
233	16	11	Perimeter	—	445	445	Tar Springs	Brine	12.5	590
234	5	5	Peripheral	—	61	61	Tar Springs	Brine	6.5	531
235	1	5	Irregular	—	90	90	Penn. Sand	Brine	7.6	—
236	2	6	Irregular	—	80	80	Penn. Sand	Brine	5.9	722
237	9	15	5-Spot	10	130	130	Produced	Brine	3.2	795
238	5	9	5-Spot	10	60	140	Shallow Sand	Fresh	—	—
239	2	5	5-Spot	10	25	70	Shallow Sand & Produced	Fresh & Brine	11.1	1,119
240	1	3	—	—	16	40	Produced	Brine	—	—
241	1	2	Irregular	—	30	30	Penn. Sand	Brine	9.1	—
242	1	4	—	—	40	135	Produced	Brine	14.0	520
243	3	6	Flank	10	128	128	Grayville City Water	Fresh	10.8	1,029
244	7	24	Flank	40	587	591	Penn. Sand	Brine	—	62.1
245	7	7	5-Spot	10	94	209	Bridgeport	Brine	15.7	359

(Continued)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,695	12	—	—	37.5	3.7 @ 96°F.	*Cooperative pilot flood with Sun.	201
2,500	15	17	57	36.1	5.1 @ 94°F.	*Includes primary production since start of flood.	202
2,400	12	—	—	—	—	*Total production including 27,684 bbls. due to injection since 1952 on adjacent leases.	203
2,800	30	14	10	41	—	*Includes primary production since start of flood. Does not include 1954 production.	204
2,260	19.5	17.9	120	35.5	—	*Includes primary production since 1-1-54.	205
2,115	25	20.1	171	—	—		206
2,640	14	17.1	44	—	—		207
2,750	12	16	20	—	—		208
2,500	10	—	—	—	—		209
2,500	20	18	50	—	—		210
2,520	8.5	17	57	36.1	5.1 @ 94°F.		211
2,400	8	18.5	75	36.2	5.0 @ 90°F.	*Corrected figure.	212
2,680	18	17	75	36.5	3.8 @ 81°F.	*Corrected figure.	213
2,630	10	17.7	145	—	—	*Dump flood.	214
2,620	12	17.2	57	37	4.6		215
2,855	10	13	30	32.5	—	*Cooperative pilot flood with Calstar.	216
2,696	12	—	—	32.5	—	*Cooperative pilot flood with Calstar.	217
2,750	23.2	18	20	36.9	—	Previously subjected to gas injection.	218
2,650	10	—	—	36.9	—	*Pilot flood.	219
2,900	5	—	—	36.9	—		220
2,250	13.3	17.3	44	38	5.5 @ 85°F.		221
2,200	43	19.2	475	36.8	2.9 @ 86°F.	*Includes Indiana data. †All flowing. Previously subjected to gas injection.	222
2,700	30	16	50	39	2.2 @ 92°F.	*Two separate injection systems. Previously subjected to gas injection.	223
2,800	24	14.5	50	39	—	Previously subjected to gas injection.	224
2,445	10	—	—	—	—	*Includes primary production since start of flood.	225
2,110	11	—	—	—	—	*Includes primary production since start of flood.	226
1,700	15	20	78	38	8.3 @ 69°F.		227
3,100	5.3	13.8	522	36	2.6 @ 99°F.	*Corrected figure.	228
2,600	14.2	15.6	54	37.8	6.4 @ 60°F.	*Corrected figures.	229
3,062	10	—	—	—	—	*Includes primary production since start of flood.	230
3,150	5	20	—	—	—	*Cooperative with Sinclair. †Dump flood.	231
1,410	27	19	110	39	—		232
1,550	9	18.8	223	40	4.1	*Includes primary production since start of flood.	233
1,280	10	21	32	39	5.5 @ 60°F.	*Includes primary production since start of flood.	234
1,912	23	13	36	38	4.5 @ 84°F.	*Includes primary production since start of flood.	235
2,750	12	—	—	—	—		236
1,550	29	17.6	86	32	20 @ Res. Temp.	*Includes estimated 300,000 bbls. in pilot flood from 4-49 to 5-51.	237
1,830	—	—	—	32.2	11.2 @ 78°F.	*Includes primary production since start of flood. Pilot flood (1-input) from 9-47 to 5-51.	238
2,000	15	—	—	—	—		239
2,800	10	15	46	—	—	*Temporarily shut down 8-16-54.	240
2,300	12	—	—	—	—		241
2,000	10	—	—	—	—		242
2,800	9.6	18.6	64	34.5	5.2 @ 95°F.		243
2,175	13	19.5	292	30	9.2 @ 83°F.		244
2,530	11.6	18.8	259	38.5	—	*1954 production 2750 bbls. below normal.	245

TABLE 14.—

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
246	Roland Consol.	Indiana Farm Bureau	Omaha	Waltersburg(S)	Gallatin
247	Roland Consol.	Shell	Iron Unit	Hardinsburg(S)	White
248	St. James	Rosenthal	Washburn	Cypress(S)	Fayette
249	Ste. Marie	J. R. Randolph	Ste. Marie	McClosky(L)	Jasper
250	Sailor Springs Consol.	Ashland	Bible Grove (Stortzum)	Rosiclare(L)	Effingham
251	Sailor Springs Consol.	Ashland	Bible Grove (Weibking)	McClosky(L)	Effingham
252	Sailor Springs Consol.	Ashland	Bible Grove (Wood)	McClosky(L)	Effingham
253	Sailor Springs Consol.	Cities Service	Wyatt	Aux Vases(S)	Clay
254	Sailor Springs Consol.	Kingwood Oil	Nadler	Rosiclare & McClosky(L)	Effingham
255	Sailor Springs Consol.	W. C. McBride	Duff-Cypress	Cypress(S)	Clay
256	Salem Consol.	Texas	Rosiclare Sand Unit	Rosiclare(S)	Marion
257	Salem Consol.	Texas	Salem Unit	Benoist(S)	Marion
258	Salem Consol.	Texas	Salem Unit	Devonian(L)	Marion
259	Salem Consol.	Texas	Salem Unit	McClosky(L)	Marion
260	Salem Consol.	Texas	Salem Unit	Renault & Aux Vases(S)	Marion
261	Samsville North	Ashland	West Salem	Bethel(S)	Edwards
262	Seminary	Pure	Seminary Pool Flood	McClosky(L)	Richland
263	Siggins	Bell Brothers	Flood #1	Upper Siggins(S)	Cumberland
264	Siggins	L. Fikes	Vevay Park	Siggins(S)	Cumberland
265	Siggins	Forest	Siggins	1st Siggins(S)	Cumberland
266	Siggins	Pure	Union Group	1st & 2nd Siggins(S)	Clark & Cumberland
267	Siggins	Ree*	Siggins	Casey(S)	Clark & Cumberland
268	Stanford South	Gulf	South Stanford Unit	Aux Vases(S)	Clay
269	Storms Consol.	Mabee	—	Waltersburg(S)	White
270	Stringtown	N. C. Davies	Stringtown	McClosky(L)	Richland
271	Stringtown	Helmerich & Payne	Stringtown	McClosky(L)	Richland
272	Stringtown	Noknil	—	McClosky(L)	Richland
273	Stringtown	Skelly	Stringtown	McClosky(L)	Richland
274	Thompsonville East	Carter	E. Thompsonville	Aux Vases(S)	Franklin
275	Thompsonville North	Carter	N. Thompsonville	Aux Vases(S)	Franklin
276	Thompsonville North	J. & W. Production	Thompsonville Unit	Aux Vases(S)	Franklin
277	Tonti South	Slagter	—	Benoist(S)	Marion
278	Wamac	D. Stinson	Wamac	Petro(S)	Marion
279	Westfield	Forest	Parker	Gas Sand	Clark
280	Westfield	Ree*	Hawkins	Gas Sand	Clark
281	Westfield	Ree*	Johnson	Gas Sand	Coles, Clark
282	Willow Hill East	M. M. Spickler	—	McClosky(L)	Jasper
283	Woburn Consol.	Arrow Drilling	Spindler	Benoist(S)	Bond
284	York	Trans-Southern	York	Casey(S)	Cumberland

(Concluded)

Information				Production and Injection Statistics (Barrels)						Map No.
Location			Date first injection	Secondary recovery						
Section	Twp.	Rng.		Water injection		Oil production		Water production		
				Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
20, 21, 28, 29	7S	8E	Mar., 1953	1,005,076	2,514,494	187,343	306,668*	288,000	—	246
23, 24, 25	6S	8E	Dec., 1950	1,139,788	5,637,941	287,792	1,100,495	592,457	1,243,365*	247
30	6N	3E	Mar., 1954	66,000	136,000	28,800	55,400	66,000	136,000	248
5, 6, 7, 8	5N	14W	Oct., 1948	150,000	1,511,500*	21,067	125,975	—	—	249
28	6N	7E	June, 1955	53,260	53,260	1,156*	1,156*	—	—	250
29	6N	7E	July, 1954	63,830	112,780*	7,492	11,540†	—	—	251
28	6N	7E	June, 1955	26,920	26,920	49	49	—	—	252
13	5N	7E	Sept., 1953	76,508	168,780	11,475	19,749	59,662	92,457	253
28	6N	7E	June, 1955	92,750	92,750	5,096	5,096*	3,780	3,780	254
35	4N	7E	July, 1953	41,347	105,526	12,379	29,262	12,426*	—	255
15	1N	2E	April, 1950	197,637	1,035,084	6,444	61,885	33,173	120,383	256
—	1&2N	2E	Oct., 1950	30,591,705	75,177,064*	4,605,458	6,905,791*	8,061,559	12,404,921†	257
—	1&2N	2E	Oct., 1950	6,310,073	32,153,900	84,824	323,284	1,228,169	9,844,030*	258
—	1&2N	2E	April, 1951	11,849,722	32,248,805*	700,601	1,432,565*	3,972,205	8,346,402†	259
—	1&2N	2E	Oct., 1950	2,366,315	6,660,016	125,347	283,375	2,015,386	3,451,361*	260
30	1N	14W	Sept., 1954	66,478	83,215	2,695	3,485*	—	—	261
17, 20	2N	10E	Feb., 1954	267,990	584,607*	6,342	14,355	104,155	155,631	262
13	10N	10E	Sept., 1950	39,399*	279,969*	24,121	82,477	25,000	85,000	263
25	10N	14W	Dec., 1950	15,106	240,932	275	1,558	33,244	79,080	264
11, 12, 13, 14	10N	10E)	June, 1942	3,901,332	38,605,137	740,691	6,505,606	—	—	265
7	10N	11E)								
18	10N	14W)	Dec., 1946	1,217,307	11,833,116	126,007	2,081,275	1,168,604	8,355,955	266
18	10N	11E)								
7	10N	14W)	Dec., 1951	357,885	1,204,170	42,643	48,901	67,194	109,608	267
7	10N	11E)								
8, 9, 16, 17	2N	7E	May, 1954	673,432	1,091,110*	197,155	275,481*	113,504	113,614	268
22	6S	9E	July, 1951	None*	90,110*	None*	None*	None*	None*	269
31	5N	14W	Dec., 1953	32,351	85,151	1,789	3,949*	32,351	82,751	270
31	5N	14W	Oct., 1954	48,074	53,538	1,750	1,750	4,100	4,100	271
31	5N	14W	Dec., 1953	—	—	—	—	—	—	272
31	5N	14W	Dec., 1953	48,427	58,153	5,798	22,104*	39,135	108,319*	273
12	7S	4E	July, 1954	116,349	181,469	13,265	11,413*	14,200	18,245	274
3, 9, 10	7S	4E	Oct., 1955	91,324	91,324	None	None	2,314	2,314	275
10, 15	7S	4E	Mar., 1954	196,893	339,831	18,291	19,212	14,643	16,184	276
4	2N	2E	Dec., 1953	72,000*	72,000*	25,756	35,655	90,000*	90,000*	277
30	1N	1E	May, 1954	12,531	31,731	2,828	2,828*	None	None	278
30	11N	14W	June, 1950	55,840	620,292	4,512	29,756	—	—	279
20, 21	11N	14W	Aug., 1951	None†	265,199	None†	1,982†	None†	44,000	280
7, 18	11N	11E)	June, 1951	122,267	786,466	2,757	6,004	17,962	23,750	281
18	11N	14W)								
36	7N	10E	June, 1952	*	*	—	2,121†	—	—	282
10	6N	2W	Sept., 1951	73,000*	194,247*	823†	10,507†	73,000*	194,247	283
6	9N	11E	Oct., 1950	46,813	501,295	1,494	11,309	39,830	131,107	284
Totals of Reported Figures.				224,578,759	744,161,130	24,584,720	80,821,429			

TABLE 14.—

Map No.	Development as of 12-31-55					Injection Water				
	No. of wells		Injection pattern	Spacing acres per input well	Productive acreage		Source	Type	Avg. bbls. per day per well per ft.	Avg. well-head pressure PSI
	Inj.	Prod.			Sub-jected to inj.	Total				
246	9	22	Flank	10	336	336	Produced	Brine	21.8	—
247	20	24	5-Spot	20	390	430	Tar Springs	Brine	6.2	466
248	3	9	—	—	95	95	Produced	Brine	3.0	200
249	1	14	Spot	—	400	500	Cypress	Brine	58.7	0
250	1†	2	Irregular	—	60	60	Cypress	Brine	61.9	—
251	1‡	3	—	—	30	55	Cypress	Brine	35.0	—
252	1*	1	Irregular	—	20	20	Tar Springs	Brine	25.0	—
253	1	3	—	—	9.4	30	Penn. Sand	Brine	22.8	510
254	2	3	Perimeter	20	120	120	Cypress	Brine	27.1	—
255	1*	4	5-Spot	20	50	160	Tar Springs & Cypress	Brine	9.4	844
256	3	5	Flank	—	100	100	Penn. Sand	Brine	12.9	692
257	163	650	Peripheral & 25% 5-Spot	20	7,975	7,975	Gravel Bed & Produced	Fresh & Brine	18.4	147
258	27	40	Peripheral	—	5,414	5,414	Gravel Bed & Produced	Brine	33.7	—
259	121	412	—	—	7,712	7,712	Gravel Bed & Produced	Fresh & Brine	13.4	236
260	27	284	Peripheral	—	4,881	4,881	Gravel Bed & Produced	Fresh & Brine	7.3	154
261	1	1	—	—	20	35	Produced	Brine	36.4	400
262	2	4	—	—	173	173	Cypress	Brine	45.9	—
263	9	7	5-Spot	4.4	80	80	Surface & Produced	Fresh & Brine	0.7	210
264	2	4	5-Spot	4.4	10	—	Surface & Produced	Fresh & Brine	1.3	—
265	493	407	5-Spot	4.4	1,800	—	Gravel Bed & Produced	Fresh & Brine	0.7	240
266	127	121	5-Spot	4.4	468	575	Surface & Produced	Fresh & Brine	0.8	245
267	27	20	5-Spot	4.4	135	227	Produced & Lake	Fresh & Brine	0.6	190
268	8	7	Modified 5-Spot	20	105	130	Penn. Sand	Brine	19.5	1,198
269	1	2	—	—	40	40	Penn. Sand	Brine	—	—
270	2	3	—	—	80	80	Tar Springs	Brine	4.4	—
271	1	2	—	10	91.5	50	Cypress	Brine	18.8	8
272	1	2	—	—	—	—	—	—	—	—
273	1	2	—	10	80	80	McClosky & Tar Springs	Brine	11.1	0
274	3	3	5-Spot	10	30	117	Cypress	Brine	5.9	80.4
275	4	6	5-Spot	—	76	155	Cypress	Brine	—	—
276	4	8	Modified Peripheral	10	175	190	Lake & Produced	Fresh & Brine	8.4	1,158
277	1	3	—	10	25	—	—	Brine	21.7	—
278	4	24	5-Spot	10	10	200	City Water	Fresh	0.4	40
279	9	12	5-Spot	2.5	20	—	Gravel Bed	Fresh	0.7	125
280	15	8	5-Spot	4.4	40	360	Devonian & Produced	Fresh & Brine	—	—
281	26	13	5-Spot	4.4	70	467	Lake & Produced	Fresh & Brine	0.4	171
282	1*	1	—	—	20	20	Produced	Brine	—	—
283	1	4	—	—	20	20	Produced	Brine	14.3	210
284	3	7	Line Drive	4.4	15	125	Shallow Sand & Produced	Fresh & Brine	4.3	77
					72,832†					

(Concluded)

Reservoir Statistics (Average Values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
1,695	14	19	200-250	29.2	8 @ 32°F.	*Includes primary production since start of flood. Previously subjected to gas injection.	246
2,500	25	17.6	152	38.5	—	*Corrected figure.	247
1,595	20	—	—	34	—		248
2,860	7	—	—	—	—	*Dump flood (estimated).	249
2,870	4	—	—	37	—	*Includes primary production since start of flood. †Controlled dump flood.	250
2,850	5	—	—	37	—	*Corrected figure. †Includes primary production since start of flood. ‡Controlled dump flood.	251
2,850	5	—	—	37	—	*Controlled dump flood.	252
2,771	9.2	21.9	164	34.2	—		253
2,863	9	—	—	37	—	*Includes primary production since start of flood.	254
2,600	12	19	60	38	—	*Pilot flood.	255
2,093	14	11.5	43	36.5	—		256
1,770	28	17.9	150	37	3.9 @ 93°F.	*Corrected figures. †Since 1-1-52.	257
3,400	19	16.8	300	36.5	—	*Since 1-1-52.	258
1,950	20	15.8	700	37	—	*Corrected figures. †Since 1-1-52.	259
1,825	R.-7' A.-26'	R.-16.5 A.-16.3	R.-18 A.-28	37	R.-4.8 A.-4.4 @ 93° F.	*Since 1-1-52.	260
2,930	5	—	—	—	—	*Includes primary since start of flood.	261
3,000	8	—	—	36	—	*Corrected figure.	262
320	16	18.9	73	34	12 @ 63°F.	*Does not include line injection by Forest. Previously subjected to gas injection.	263
600	16	20.3	349	30.1	—		264
400	32	17.5	56	36.6	8 @ 60°F.	Previously subjected to gas injection.	265
{1-404 2-464	1-25 2-6	1-18.5 2-18.3	1-45 2-66	36	8.8 @ 68°F.		266
447	56	21.5	40.2	33.8	10.5 @ 68°F.	*Since 9-1-54. Previously subjected to gas injection.	267
2,975	11.8	19.8	97	38.8	3.7—	*Corrected figures.	268
2,241	15	—	—	—	—	*Temporarily abandoned since 6-18-53.	269
3,000	10	18	—	—	—	*Includes primary production since 1-1-54.	270
3,026	7	—	—	38	—		271
3,002	12	—	—	36	—	*Corrected figure.	272
3,200	18	21.1	98	38	—	*1954 production 1852 bbls. below normal.	273
3,075	25	22	170	—	—		274
3,120	16	19.5	50	38.6	3.5 @ 90°F.		275
1,940	9	—	—	—	—	*Since 1-1-55.	276
750	20	21.3	220	35	18.7 @ 60°F.	*Since 1-1-55.	277
270	25	17.9	153	28.1	54 @ 60°F.	Previously subjected to gas injection.	278
290	30	22	120	30	28 @ 62°F.	*Since 9-1-54. †Project temporarily shut down during 1954. ‡Includes primary production since start of flood.	279
320	35	21.5	86	29	—	*Since 9-1-54.	280
2,615	10+	—	—	—	—	*Dump flood. †As of 1-1-55.	281
1,006	14	—	—	—	—	*Estimated. †Includes primary production since start of flood.	282
590	10	21.9	231.2	30.3	10 @ 75°F.		283
†Includes only 8,800 acres for the Salem unit.							284

TABLE 15.—ILLINOIS WATERFLOOD PRO-

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
285	Albion Consol.	Superior	South Albion	Bridgeport(S)	Edwards
24	Barnhill Consol.	Wayne Development	Walter	McClosky(L)	Wayne
286	Berryville Consol.	Phillips	Tarpley	McClosky(L)	Wabash
287	Berryville Consol.	Phillips	Townsend	McClosky(L)	Wabash
288	Casey	Calvan American	Shawver	Casey(S)	Clark
161	Main Consol.	Skiles	Correll-Gurley	Robinson #4(S)	Crawford
289	Main Consol.	Skiles	Walter Community	Robinson #1 & #3(S)	Crawford
290	Martinsville	J. B. Buchman	—	Carper(S)	Clark
183	Martinsville	Magnolia	Carper	Carper(S)	Clark
184	Martinsville	Magnolia	Casey	Casey(S)	Clark
190	Maunie South	Magnolia	Tar Springs, Unit #2	Tar Springs(S)	White
291	New Harmony Consol.	Sun	Ford "A"	McClosky(L)	White
292	Phillipstown Consol.	Sun	Phillipstown	Tar Springs(S)	White

TABLE 15.—

Map No.	Maximum development during operation						Injection water	
	Number of wells		Injection	Spacing acres per input well	Productive acreage		Source	Type
	Injection	Producers			Subjected to injection	Total		
285	3	14	—	—	203	—	Produced	Brine
24	1	2	—	10	40	40	Cypress	Brine
286	1	2	—	—	14	30	Produced & Tar Springs	Brine
287	1	2	—	—	27	30	Produced & Tar Springs	Brine
288	9	4	5-Spot	4.4	13	215	Shallow Sand	Fresh
161	18	17	5-Spot	10	180	—	Creek & Penn. Sand	Fresh & Brine
289	5	6	5-Spot	10	40	—	Upper Penn. Sand	Fresh & Brine
290	2	6	5-Spot	20	40	40	Shallow Sand	Brine
183	4	1	5-Spot	10	10	50	Gravel Bed	Fresh
184	8	3	5-Spot	10	23	110	Gravel Bed	Fresh
190	3	2	5-Spot	20	50	50	Gravel Bed	Fresh & Brine
291	1	1	Spot	—	40	40	Gravel Bed	Fresh
292	1*	9	—	—	10	—	Produced	Brine

JECTS REPORTED ABANDONED

Information				Production and injection statistics				Map No.
Location			Date first injection	Date abandoned	Cumulative water injection	Cumulative secondary recovery oil production	Cumulative water production	
Section	Twsp.	Rng.						
1, 11, 12	3S	10E	Aug., 1946	1952	854,511*	173,502*	789,679*	285
26	2S	8E	Dec., 1950	Jan., 1955	143,565	—	118,901	24
2	1N	14W	Sept., 1952	Feb., 1953	34,688	None	102,551	286
35	2N	14W	Feb., 1952	July, 1953	49,834	None	86,354	287
23, 24	10N	14W	Aug., 1953	July, 1954	48,586	1,814	—	288
10	7N	12W	July, 1951	Sept., 1955	1,207,325	29,756	226,810	161
1	6N	13W	Dec., 1951	Dec., 1952	25,821	None	29,000	289
36	7N	13W						
31	10N	13W	Oct., 1952	1954	282,697*	None*	4,800*	290
30	10N	13W	Jan., 1951	Feb., 1955	1,110,949	10,376	9,605	183
19	10N	13W	Aug., 1950	Feb., 1955	872,185	2,345	33,505	184
24	6S	10E	Nov., 1949	1955	639,215	60,344	208,636	190
19	6S	11E						
18	5S	14W	May, 1948	July, 1952	57,823	13,076	626	291
6	5S	11E	Jan., 1953	May, 1954	57,598	None	251,333	292
Totals of reported figures					5,384,797	291,213	1,861,800	

(Concluded)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
1,900	20	19.7	304	32.5	6.3 @ 95°F.	*As of 6-1-52. Stopped injection early in 1952. Now disposal project.	285
3,450	18	—	—	—	—		24
2,890	10	—	—	—	—		286
2,890	10	—	—	—	—		287
450	21.5	22.4	108	31.8	13.6 @ 65°F.		288
1,035	20	22.2	100	33	13.5	*As of 12-31-53.	161
950	10	20.1	93	36	12.5 @ Reservoir Temperature		289
1,010	15	—	—	—	—		
1,346	40	16	11	30	—		290
1,334	—	—	—	—	—		183
464	—	—	—	—	—		184
2,275	—	—	—	—	—	*Abandoned after unsuccessful input well fracture treatment.	190
2,900	7	—	—	38	—		291
2,248	10	—	—	34.5	—		292

TABLE 16.—ILLINOIS PRESSURE MAINTENANCE

Map No.	General				
	Field	Operator	Project	Formation Sand(S), Lime(L)	County
293	Albion Consol.	Calvert	South Albion	Biehl(S)	Edwards
294	Beaver Creek	Conrey & Conrey	Lower Biehl	Benoist(S)	Bond
295	Bone Gap Consol.	Gallagher	Wrone	Waltersburg(S)	Edwards
32	Boyd	Superior	Boyd Repressure*	Benoist(S)	Jefferson
296	Louden	Carter	Louden-Devonian	Devonian(L)	Fayette
297	Omaha	Carter	Omaha	Palestine(S)	Gallatin
298	Salem Consol.	Carter	Dix	Benoist(S)	Jefferson

TABLE 16.—

Map No.	Development of 12-31-55					Injection water		
	No. of wells		Injection pattern	Productive acres		Source	Type	Avg. wellhead pressure PSI
	Inj.	Prod.		Sub-jected to inj.	Total			
293	2	7	Peripheral	60	119	Produced	Brine Brine Brine Fresh & Brine	950
294	1	4	—	40	50	Benoist Sand		610
295	1	11	—	40	120	Produced		450
32	4	85	Peripheral	1,564	1,564	Surface & Produced		—
296	6	68	Peripheral	2,600	2,600	Produced	Brine	125
297	1	15	Flank	260	260	Produced	Brine	250
298	4	64	Peripheral	1,200	1,200	Tar Springs & Produced	Brine	120

PROJECTS USING WATER INJECTION DURING 1955

Information				Production and injection statistics (barrels)						Map No.
Location			Date first injection	Water injection		Oil production		Water production		
Section	Twp.	Rng.		Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	Total 1955	Cumulative 12-31-55	
35, 36 1	2S 3S	10E 10E	April, 1951	211,041	594,321*	63,717	486,551	186,666	517,419*	293
36	4N	3W	July, 1953	8,124	26,609	2,682	14,477	263	—	294
18	1S	14W	June, 1952	196,853	542,789	33,396	258,800	196,853	542,789	295
13, 24, 25 18, 19, 20, 30	1S 1S	1E 2E	June, 1945	*	9,714,450*	*	9,776,513†	*	10,865,715*	32
—	8N	3E	Sept., 1943	11,772,223	110,242,616	501,925	15,388,344	10,215,393	106,909,105	296
{33 4	7S 8S	8E 8E	Oct., 1944	157,090	1,052,777	85,608	1,807,828	123,009	1,119,405	297
3, 4, 9, 10, 15, 16	1S	2E	Jan., 1948	875,059	3,724,891	397,411	7,556,555	357,740	3,486,188	298
Totals of reported figures				13,220,390	126,898,453	1,084,739	35,289,068	11,079,924	123,440,621	

(Concluded)

Reservoir statistics (average values)						Remarks	Map No.
Depth feet	Net pay thickness feet	Porosity per cent	Permeability millidarcys	Oil gravity API	Oil viscosity centipoises		
2,080	9.2	16.8	384	32.3	10.4 @ 85°F.	*Since May 1952. *Converted to water flood status 1-1-55. †Includes Aux Vases production up to 1-1-55. ‡Includes both primary and any additional oil obtained by pressure maintenance.	293
1,140	8	20.7	208	32.4	—		294
2,310	20	18	120	34.6	5.6 @ 85°F.		295
2,065	17.3	17.5	173	39.5	3.2 @ 90°F.		32
3,100	—	—	—	29	6.5 @ 96°F.		296
1,700	17	18.9	427	27	17 @ 76°F.		297
1,950	12	16.4	128	39	2.5 @ 87°F.		298

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