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Oil and Gas Development in Illinois in 1942

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In 1942, Illinois produced 106,590,000 bbl. of crude oil, or 7.6 per cent of the entire amount produced in the United States. It ranked fifth among the oil-

June and to 246,000 for December. This steady decline was caused partly by the reduction in drilling resulting from Federal Conservation Order M-68 and partly

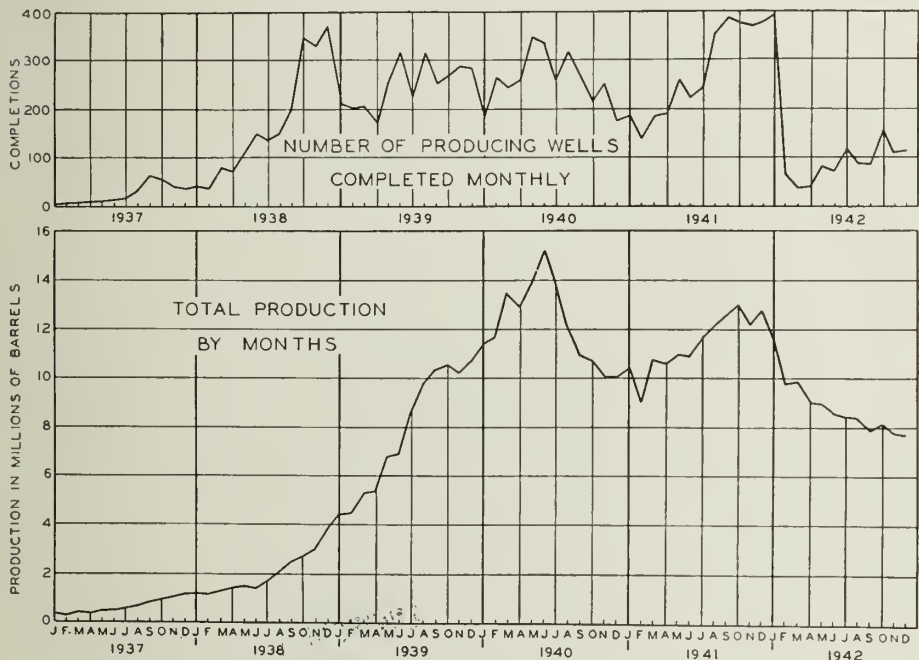


FIG. 1.—MONTHLY OIL PRODUCTION AND WELL COMPLETIONS IN ILLINOIS 1937-1942.

producing states. The production for 1942 declined 20.5 per cent from the previous year's total of 134,139,000 bbl. The daily average production for 1942 was approximately 292,000 bbl., or 74,000 bbl. less than the 366,000 daily average for 1941. At the beginning of 1942 the daily production was 367,000 bbl. This production declined steadily to 282,000 for

by the fact that no major pool was found during the year.

DISCOVERIES

Forty new fields (Fig. 2, Table 2), 48 extensions (Table 3), and 45 additional producing zones in existing fields (Table 4) were discovered in 23 counties in Illinois during 1942. Of the 40 new fields, three

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were abandoned before the end of 1942, 15 were one-well fields, 15 had not more than six wells, and the remaining 7 had

The average initial productions of the discovery wells of the 40 new fields amounted to 130 bbl. of oil and 23 bbl.

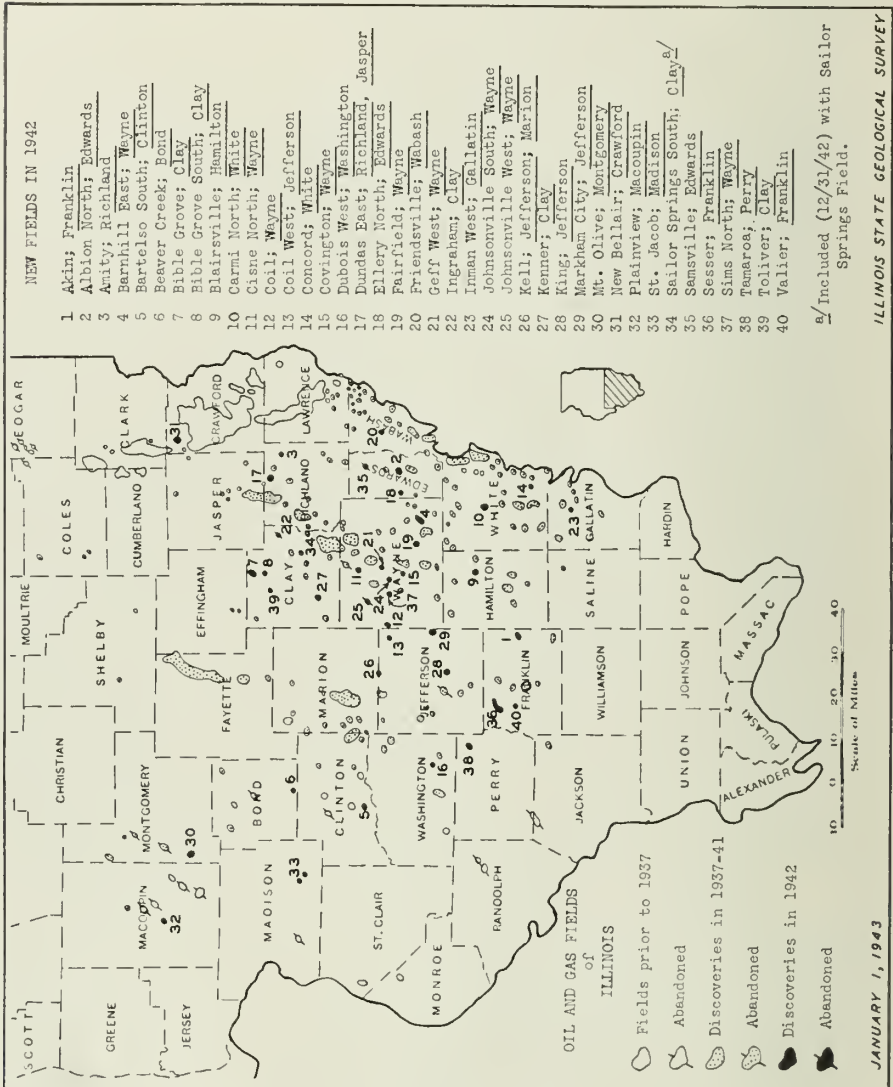


FIG. 2.—OIL AND GAS FIELDS OF ILLINOIS SHOWING DISCOVERIES OF THE YEAR 1942.

from 10 to 32 wells producing at the end of the year. In all, 200 wells were producing in these 37 fields by Jan. 5, 1943. In 1941, for contrast, 43 oil fields were discovered and 869 wells were producing in those fields at the end of that year.

of salt water. For the 43 oil discoveries of 1941 the comparable figure is 318 bbl. of oil.

In fields discovered since Jan. 1, 1937, a total of 11,404 wells were producing at the end of 1942 and this compares with 10,496 wells at the end of 1941.

PRODUCTIVE ACREAGE

The area proved for production in the new fields (discovered since 1936)

gas producers and dry holes and the other 32 were gas-input wells, salt-water-disposal wells, and stratigraphic tests. Of

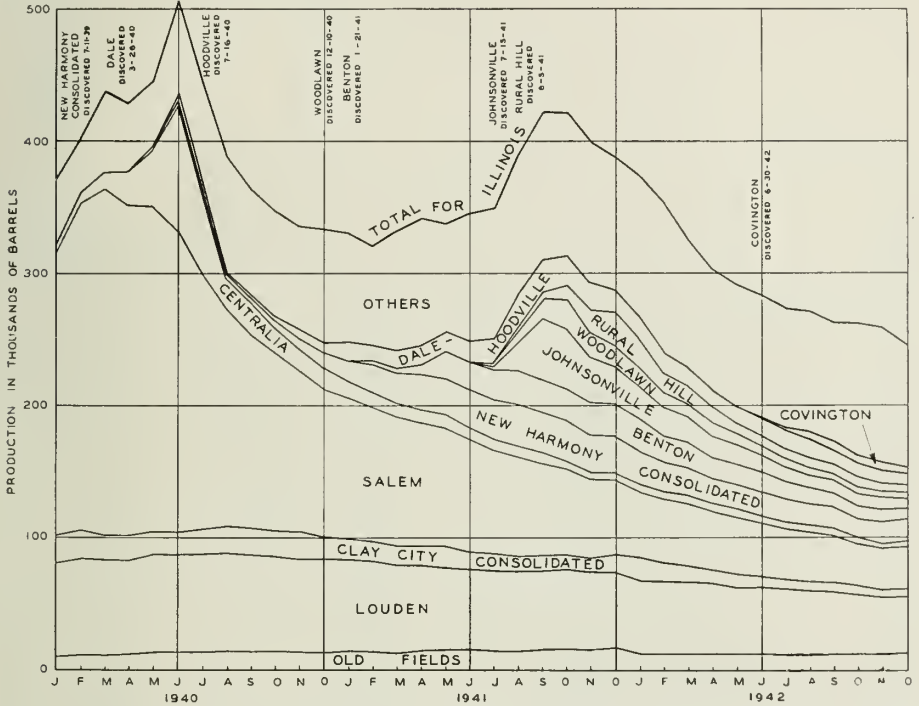


FIG. 3.—DAILY AVERAGE PRODUCTION IN ILLINOIS FOR THE YEARS 1940-1942, DIVIDED ACCORDING TO PRINCIPAL PRODUCING AREAS.

increased from 97,483 acres at the beginning of 1942 to 119,730 acres at the end of the year (Table I), an increase of 22,247 acres, of which 4540 acres are in fields discovered during the current year and 17,707 in extensions to pools drilled earlier. In 1941 a total of 19,433 acres were added, 9955 by fields discovered during that year and 9478 by extensions to older fields. The 40 new oil fields discovered during 1942 added an average of 114 acres per field whereas the 43 discovered during 1941 added an average of 232 acres per field by the end of that year.

DRILLING

During the past year 2048 wells were completed. Of these, 2016 were oil or

the 2016 wells drilled for oil or gas, 1166 were oil wells, 13 were gas wells and 837 were dry holes. The producers made up 58.5 per cent of the wells drilled. Of the total number drilled 549 are classified as "wildcat," and of these 88 were successful in obtaining production and 8 are either gas wells not connected to a pipe line or "edge wells," which might open new oil fields.

EXPLORATION METHODS

The results of an investigation to ascertain the reason for the locations of the wildcat wells are set forth in Table 6. Of the 549 wildcat wells, the 408 known to have been located by scientific methods were 19 per cent successful. The total

TABLE I.—Oil and Gas Production in Illinois

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells							
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942				
										Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas ^c		
															Completed	Abandoned
1	Warrenton-Borton, <i>Edgar</i>	1906	100	0	30,320	120	0	0	22	0	10	4	0	0		
2	Westfield, <i>Clark, Coles</i>	1904	9,000	75	z	z	z	0	1,628	0	0	16	291			
3			850	75	z	z	z	0	186	0	0	y	y			
4			9,000	0	z	z	z	0	1,449	0	0	y	y			
5			220	0	z	z	z	0	13	0	0	y	y			
6	Siggins, <i>Cumberland, Clark</i>	1906	3,530	105	z	z	z	0	996	0	0	0	802			
7			3,135	55	z	z	z	0	854	0	0	0	y			
8			433	15	z	z	z	0	90	0	0	1	y			
9			855	105	z	z	z	0	193	0	0	0	y			
10	York, <i>Cumberland, Clark</i>	y	310	40	z	z	z	0	70	0	0	0	44			
11	Casey, <i>Clark</i>	1906	1,925	55	z	z	z	0	535	0	0	0	488			
12			190	15	z	z	z	0	41	0	0	0	y			
13			400	0	z	z	z	0	82	0	0	0	y			
14			1,525	15	z	z	z	0	322	0	0	0	y			
15	Martinsville, <i>Clark</i>	1922	710	155	z	z	z	0	218	1	0	0	115			
16			15	20	z	z	z	0	7	0	0	0	y			
17			275	35	z	z	z	0	63	0	0	0	y			
18			710	0	z	z	z	0	23	0	0	0	y			
19			600	0	z	z	z	0	35	1	0	0	y			
20			640	0	z	z	z	0	40	0	0	0	y			
21			10	0	z	z	z	0	2	0	0	0	y			
22	North Johnson, <i>Clark</i>	1907	1,320	20	z	z	z	0	485	0	0	0	433			
23			1,115	0	z	z	z	0	296	0	0	0	y			
24			160	0	z	z	z	0	32	0	0	0	y			
25			820	5	z	z	z	0	177	0	0	0	y			
26			215	0	z	z	z	0	44	0	0	0	y			
27	South Johnson, <i>Clark</i>	1907	1,715	65	z	z	z	z	535	0	0	0	469			
28			185	5	z	z	z	z	38	0	0	0	y			
29			295	0	z	z	z	z	59	0	0	0	y			
30			1,675	35	z	z	z	z	402	0	0	0	y			
31			845	5	z	z	z	z	170	0	0	0	y			
32	Bellair, <i>Crawford, Jasper</i>	1907	1,300	5	z	z	z	z	486	0	13	20	362			
33			1,165	0	z	z	z	z	310	0	y	y	y			
34			315	0	z	z	z	z	65	0	y	y	y			
35			910	0	z	z	z	z	182	0	y	y	y			
36	Clark County Division ¹		19,960	520	53,491,000	374,000	z	z	4,953	1	13	37	3,004			
37	Main, ² <i>Crawford</i>	1906	35,135	515	z	z	z	z	7,324	0	58	53	4,821			
38			340	0	z	z	z	z	68	0	0	0	y			
39			33,795	510	z	z	z	z	7,143	0	58	53	y			
40			1,000	0	z	z	z	z	108	0	0	0	y			
41			10	0	z	z	z	z	1	0	0	0	1			
42	New Hebron, <i>Crawford</i>	1909	1,350	210	z	z	z	z	297	0	0	0	146			
43	Chapman, <i>Crawford</i>	1914	1,045	515	z	z	z	z	193	0	0	0	60			
44	Parker, <i>Crawford</i>	1907	1,310	30	z	z	z	z	256	0	1	0	219			
45	Allison-Weger, <i>Crawford</i>	y	1,075	20	z	z	z	z	148	1	0	0	66			
46	Flat Rock, ³ <i>Crawford</i>	y	1,375	545	z	z	z	z	289	0	6	0	130			
47	Birds, <i>Crawford, Lawrence</i>	y	4,370	115	z	z	z	z	684	0	4	2	424			
48	Crawford County Division ⁴		45,665	1,945	148,653,000	1,347,000	z	z	9,191	1	69	55	5,866			
49	Lawrence, <i>Lawrence, Crawford</i>	1906	24,150	1,550	z	z	z	z	4,415	2	42	23	3,155			
50			50	0	z	z	z	z	5	0	y	y	5			

^b Footnotes to column heads and explanation of symbols are given on page 36.

¹ Total of lines 2, 6, 10, 11, 15, 22, 27, 32.

² Includes Kibbie, Ohlong, Robinson and Hardinsville.

³ Includes Swearingen gas.

⁴ Total of lines 37, 42, 43, 44, 45, 46, 47.

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.		Repressuring Operations ^d	Character of Oil		Producing Formation										Deepest Zone Tested to End of 1942	
	Number of Wells		Initial	Avg. at End of 1942		Gravity A.P.I. at 60° F., Weighted Average ^e	Sulphur	Per Cent	Name	Age ^e	Character/ ^f	Porosity ^g	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure ^h	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift											Top Prod. Zone	Bottoms Prod. Wells					
1	0	0	x	x		x	x	Unnamed	Pen	S	Por	159	215	x	ML	Pen	715		
2	0	291	293±	x		34.0	x	See below							D	St. Peter	3,009		
3	0	y	x	x		30.0	x	Shallow gas	Pen	S	Por	281	376	36	D				
4	0	y	x	x		33.5	x	Westfield	Pen	MisL	Cav	334	446	x	D				
5	0	y	x	x		38.2	0.18	"Trenton"	Ord	L	Por	2,265	2,568	x	D				
6	0	802	x	x	RP	33.0	x	See below							D	Dev	2,010		
7	0	y	x	x		34.0	x	First Siggins	Pen	S	Por	367	465	x	D				
8	0	y	x	x		(33.6)	x	2nd and 3rd Siggins	Pen	S	Por	478	562	x	D				
9	0	y	x	x		(25.7)	x	Lower Siggins	Pen	S	Por	556	590	x	D				
10	0	44	x	x		(30.3)	x	York	Pen	S	Por	588	680	x	AM	Pen	960		
11	0	488	x	x	RP	29.2	x	See below							AM	MisL	808		
12	0	y	x	x		(31.9)	x	Upper gas	Pen	S	Por	263	358	x	AM				
13	0	y	x	x		(30.1)	x	Lower gas	Pen	S	Por	309	426	x	AM				
14	0	y	x	x		(33.6)	x	Casey	Pen	S	Por	444	505	x	AM				
15	0	115	x	x		36.8	x	See below							D	St. Peter	3,411		
16	0	y	x	x		y	x	Shallow	Pen	S	Por	255	411	x	D				
17	0	y	x	x		y	x	Casey	Pen	S	Por	499	511	x	D				
18	0	y	x	x		y	x	Martinsville	MisL	L	Por	477	506	x	D				
19	0	y	x	x		(38.9)	x	Carper	MisL	S	Por	1,340	1,418	x	D				
20	0	y	x	x		y	x	"Niagaran"	Dev	L	Por	1,553	1,596	x	D				
21	0	y	x	x		(39.6)	x	"Trenton"	Ord	L	Por	2,708	2,830	x	D				
22	0	433	x	x		31.0	x	See below							AM	Mis	965		
23	0	y	x	x		y	x	Claypool	Pen	S	Por	416	486	x	AM				
24	0	y	x	x		y	x	Shallow	Pen	S	Por	314	451	x	AM				
25	0	y	x	x		y	x	Casey	Pen	Por	465	508	x	AM					
26	0	y	x	x		y	x	Upper Partlow	Pen	S	Por	534	554	x	AM				
27	0	469	x	x		32.2	x	See below							AM	Dev	2,030		
28	0	y	x	x		y	x	Claypool	Pen	S	Por	392	549	x	AM				
29	0	y	x	x		y	x	Casey	Pen	Por	453	518	x	AM					
30	0	y	x	x		y	x	Upper Partlow	Pen	Por	489	570	x	AM					
31	0	y	x	x		28.5	x	Lower Partlow	Pen	S	Por	598	618	x	AM				
32	0	375	x	x	RP	33.7	x	See below							AM	MisL	1,471		
33	0	y	x	x		(32.4)	x	"500 Ft."	Pen	S	Por	561	725	x	AM				
34	0	y	x	x		y	x	"800 Ft."	Pen	Por	817	907	x	AM					
35	0	y	x	x		(37.0)	x	"900 Ft."	MisU	S	Por	886	920	x	AM				
36	0	3,017	x	x		33.0	x	See below								St. Peter	4,654		
37	0	4,821	425±	y	RP	33.0	x	Shallow	Pen	S	Por	508	822	x	ML				
38	0	y	x	x		y	x	Robinson	Pen	Por	900	960	25±	ML					
39	0	y	x	x		32.8	x	Oblong	Mis	SL	Por	1,337	1,416	x	ML				
40	0	y	x	x		y	x								A.				
41	0	1	x	x		y	x	Devonian	Dev	L	Por	2,794	2,805	11	ML				
42	0	146	x	x	RP	30.1	x	Robinson	Pen	Por	940	975	x	ML	Mis	2,056			
43	0	60	x	x		y	x	Robinson	Pen	Por	995	1,015	x	ML	Mis	2,279			
44	0	219	x	x		29.5	x	Robinson	Pen	Por	1,000	1,025	x	ML	Pen	1,127			
45	0	66	x	x		22.5	x	Robinson	Pen	Por	912	930	x	ML	Pen	1,041			
46	0	130	x	x	RP	31.8	x	Robinson (Flat Rock)	Pen	S	Por	935	945	x	ML	Dev	3,110		
47	0	424	x	x	RP	31.8	x	Robinson	Pen	S	Por	930	950	x	ML	MisL	1,731		
48	0	5,866	425±	x		32.3	x	See below							A	St. Peter	4,654		
49	0	3,155	650±	x	RP	32.9	x	See below							A	St. Peter	5,190		
50	0	5	x	x		y	x	Pennsylvanian	Pen	S	Por	290	320	x	A				

⁴ Pressures in Southeastern Illinois oil fields are estimated bottom hole pressures reported in previous Survey publications.

⁵ All gravities given prior to 1936 (except those in parentheses) were from data for the year 1925 furnished by the Illinois Pipe Line Co. Gravities in parentheses are for particular samples (see Illinois State Geol. Survey Bull. 54, Table 3). The values have been converted from Baume to A.P.I. gravities.

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^c
51			5,015	35	x	x	x	x	1,233	0	y	y	y	0
52			2,240	0	x	x	x	x	476	0	y	y	y	0
53			345	1,095	x	x	x	x	243	0	y	y	y	0
54			15,960	220	x	x	x	x	3,017	0	y	y	y	0
55			4,020	200	x	x	x	x	693	2	y	y	y	0
56			6,950	0	x	x	x	x	959	0	y	y	y	0
57	St. Francisville, Lawrence		420	0	x	x	x	x	55	0	0	0	0	30
58	Lawrence County Division ⁷		24,570	1,550	229,523,000	1,733,000	x	x	4,470	2	42	23	3,185	0
59	Allendale, Wabash	1912	2,100	0	5,530,000	424,000	x	x	503	30	1	3	278	0
60			y	0	x	x	x	x	448	18	0	0	227	0
61			y	0	x	x	x	x	3	0	1	2	0	0
62			y	0	x	x	x	x	5	2	0	0	5	0
63			y	0	x	x	x	x	6	0	0	0	6	0
64			y	0	x	x	x	x	32	9	0	1	32	0
65			y	0	x	x	x	x	8	1	0	0	8	0
66	Total Southeastern Fields ⁸		92,275	3,970	437,227,320	3,878,120	x	x	19,139	34	135	122	12,333	0
67	Ayers gas, Bond	1922	0	325	0	0	221.2	13.4	20	1	0	0	0	8
68	Greenville gas, Bond	1910 ⁹	0	160	0	0	990.0	0	4	0	0	0	0	0
69	Bartelso, Clinton	1936	580	0	1,202,000	185,000	0	0	72	0	0	4	66	0
70			320	0	782,000	105,000	0	0	47	0	0	1	44	0
71			230	0	420,000	80,000	0	0	25	0	0	3	22	0
72	Carlyle, Clinton	1911	915	0	3,451,000	23,000	0	0	165	0	45	10	88	0
73	Frogtown, Clinton	1918 ¹⁰	300	0	x	0	0	0	12	0	0	0	0	0
74	Ava-Campbell Hill, Jackson	1917 ¹¹	70	370	x	0	x	0	35	0	0	0	0	0
75	Colmar-Plymouth, McDonough, Hancock	1914	2,450	0	2,894,000	107,000	0	0	486	1	0	71	219	0
76	Carlinville, Macoupin	1909 ¹²	30	50	x	1,000	x	0	8	0	0	4	0	0
77	Gillespie-Bend gas, Macoupin	1923 ¹³	0	80	0	0	135.8	0	4	0	0	0	0	0
78	Gillespie-Wyen, Macoupin	1915	40	0	x	1,000	0	0	22	0	0	4	8	0
79	Spanish Needle Creek, Macoupin	1915 ¹⁴	0	80	0	0	14.4	0	7	0	0	0	0	0
80	Staunton gas, Macoupin	1916 ¹⁵	0	400	0	0	1,050.0	0	18	0	0	0	0	0
81	Collinsville, Madison	1909 ¹⁶	40	0	850	0	0	0	6	0	0	0	0	0
82	Brown-Langewisch Kuester-Junction City, Marion	1910	175	0	x	x	0	0	13	3	0	0	12	0
83			60	0	x	x	0	0	7	1	0	0	6	0
84			115	0	x	x	0	0	6	2	0	0	6	0
85	Sandoval, Marion	1909	770	0	4,894,000	263,000	0	0	150	0	3	0	25	0
86			770	0	2,695,000	5,000	0	0	123	0	3	0	8	0
87			380	0	2,199,000	258,000	0	0	27	0	0	0	17	0
88	Wamac, Marion, Clinton, Washington	1921	250	0	456,000	17,000	0	0	106	2	0	5	27	0
89	Litchfield, Montgomery	1879 ¹⁷	100	0	22,300	300	0	0	18	0	0	1	0	0
90	Waterloo, Monroe	1920 ¹⁸	230	0	220,000	6,000	0	0	41	0	1	12	0	0
91	Jacksonville gas, Morgan	1910 ¹⁹	30	1,290	2,100	0	x	0	53	0	0	0	0	0
92	Pittsfield (Pike County) gas	1886 ²⁰	0	8,960	0	0	x	0	68	0	0	0	0	0
93	Sparta, Randolph	1888 ²¹	65	100	x	0	x	0	20	0	0	0	0	0

⁷ Total of lines 49 and 57.⁸ Total of lines 1, 36, 48, 58, 59.⁹ Abandoned 1923.¹⁰ Abandoned 1933.¹¹ Abandoned 1934.¹² Abandoned 1925, revived 1942.¹³ Abandoned 1935.¹⁴ Abandoned 1934.¹⁵ Abandoned 1919.¹⁶ Abandoned 1921.¹⁷ Abandoned 1904, revived 1942.¹⁸ Abandoned 1930, revived 1939.¹⁹ Abandoned 1937.²⁰ Gas not used until 1905; abandoned 1930.²¹ Abandoned 1900.

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.		Character of Oil	Producing Formation										Deepest Zone Tested to End of 1942		
	Flowing	Artificial Lift	Initial	Avg. at End of 1942		Repressuring Operation ^d	Gravity A.P.I. at 60° F., Weighted Average ⁵	Sulphur, Per Cent	Name	Age ^e	Character/ ^g	Porosity ^g	Depth, Avg. Ft.			Structure ^h	Name	Depth of Hole, Ft.
													Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.			
51	0	y	x	x									y	x	Bridgeport			
52	0	y	x	x		y	x	Buchanan	Pen	S	Por	1,250	1,265	15	A			
53	0	y	x	x		y	x	"Gas"	MisU	S	Por	1,330	1,345	15	A			
54	0	y	600±	x		y	x	Kirkwood	MisU	S	Por	1,400	1,430	30	A			
55	0	y	650±	x		y	x	Tracey	MisU	S	Por	1,560	1,580	20	A			
56	0	y	x	x		y	x	McClosky	MisL	L	Por	1,700	1,710	10	A			
57	0	30	600	x		37.3	x	Bethel	MisU	S	Por	1,843	1,865	22	ML	Mis	1,900	
58	0	3,185	x	x	RP										AM	St. Peter	5,190	
59	0	278	x	x												MisL	2,367	
60	0	227	x	x		35.1	x	Biehli	Pen	S	Por	1,425	1,460	20				
61	0	0	x	x		y	x	Waltersburg	MisU	S	Por	1,540	1,560	15				
62	0	5	x	x		y	x	Tar Springs	MisU	S	Por	1,620	1,640	20				
63	0	6	x	x		y	x	Cypress	MisU	S	Por	1,920	1,930	10				
64	0	32	x	x		y	x	Bethel	MisU	S	Por	2,010	2,020	9				
65	0	8	900	x		y	x	McClosky	MisL	L	Por	2,280	2,290	8				
66	0	12,333	x	x														
67	0	8	335	y				Bethel	MisU	S	Por	940	945	5	A	Dev	2,181	
68	0	0	x	x				Lindley (1st., 2d)	MisU	S	Por	927	993	x	A	Dev	2,290	
69	0	66	x	x											D	St. Peter	4,213	
70	0	44	x	x		36.2	0.20	Carlyle	MisU	S	Por	984	1,008	24	D			
71	0	22	x	x		41.5	0.27	Devonian	Dev	L	Por	2,429	2,447	9	D			
72	0	88	x	x		35.2	0.26	Carlyle	MisU	S	Por	1,035	1,055	20	A	St. Peter	4,120	
73	0	0	x	x		31.9	x	Carlyle	MisU	S	Por	950	957	7	D	Cypress	962	
74	0	0	x	x		x	x	Cypress	MisU	S	Por	780	798	18	A	Dev	2,530	
75	0	219	x	x	RP	37.6	0.38	Hoing	Dev	S	Por	447	468	21	A	"Trenton"	805	
76	0	0	135	x		27.7	x	Unnamed	Pen	S	Por	380	398	x	A	Pen	410	
77	0	0	155	x				Unnamed	Pen	S	Por	542	555	x	A	Pen	575	
78	0	8	x	x		30.0	x	Unnamed	Pen	S	Por	650	670	x	T	"Trenton"	2,560	
79	0	0	x	x				Unnamed	Pen	S	Por	305	405	x	D	Pen	495	
80	0	0	145	x				Unnamed	Pen	S	Por	461	491	x	A	"Trenton"	2,371	
81	0	0	x	x		x	x	Devonian-Silurian	Dev-Sil	L	Por	1,305	1,400	20	ML	Sil	1,500	
82	0	12	x	x														
83	0	6	x	x		32.0	x	Dykstra, Wilson	Pen	S	Por	610	630	20	D	MisL	2,001	
84	0	6	x	x		32.0	x	Cypress	MisU	S	Por	1,658	1,673	15	D	Dev	3,344	
85	0	25	x	x											D	St. Peter	5,023	
86	0	8	x	x		34.5	x	Benoist	MisU	S	Por	1,540	1,560	20±	D			
87	0	17	x	x		38.0	0.38	Devonian	Dev	L	Por	2,924	2,969	9	D			
88	0	27	x	x		30.2	x	Petro	Pen	S	Por	720	760	20	D	MisL	1,760	
89	0	0	x	x		23.0	0.42	Unnamed	Pen	S	Por	664	674	x	D	Pen	681	
90	0	0	x	x		30.2	0.79	"Trenton"	Ord	L	Por	410	460	50	A	"Trenton"	845	
91	0	0	x	x		x	x	Gas	Pen, MisL	S, SL	Por	330	335	5	ML	"Trenton"	1,390	
92	0	0	x	x				"Niagaran"	Sil	L	Por	265	275	10	A	St. Peter	893	
93	0	0	x	x		x	x	Cypress	MisU	S	Por	850	857	7	D	MisU	985	

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas ^c
94	Dupo, St. Clair	1928	670	0	1,851,000	272,000	z	0	295	5	1	2	93	0
95	Total for fields discovered prior to Jan. 1, 1937 ²²		99,020	15,835	452,286,420	4,753,420	2,401	13.4	20,762	46	185	230	12,871	8
96	Beaver Creek, Bond	1942	30	0	3,000	3,000	0	0	2	2	0	0	2	0
97	Sorento, Bond	1938	30	0	4,000	0	0	0	3	0	0	1	0	0
98	Woburn, Bond	1940	210	0	343,000	86,000	0	0	28	1	0	0	28	0
99	Bible Grove, Clay	1942	820	0	290,000	290,000	0	0	33	33	0	0	32	0
100			z	0	z	z	0	0	26	26	0	1	25	0
101			z	0	z	z	0	0	7	7	0	0	7	0
102	Bible Grove South, Clay	1942	10	0	7,000	7,000	0	0	1	1	0	0	1	0
103	Clay City West, Clay	1941	320	0	849,000	800,000	0	0	14	12	0	0	14	0
104	Flora, Clay	1938	320	0	460,000	74,000	0	0	22	1	0	0	19	0
105			10	0	z	z	0	0	1	0	0	0	1	0
106			y	0	z	z	0	0	3	0	0	0	3	0
107			10	0	z	z	0	0	1	0	0	0	1	0
108			y	0	z	z	0	0	17	1	0	0	14	0
109	Ingrabam, Clay	1942 ²³	10	0	300	300	0	0	1	1	1	0	0	0
110	Iola, Clay	1939 ²⁴	100	0	13,000	2,000	0	0	8	3	0	0	6	0
111			z	0	z	z	0	0	1	1	0	0	1	0
112			z	0	z	z	0	0	6	1	0	0	4	0
113									1	1	0	0	1	0
114	Kenner, Clay	1942	10	0	600	600	0	0	1	1	0	0	1	0
115	Sailor Springs Consolidated, Clay	1941	540	0	521,000	356,000	0	0	42	17	2	0	40	0
116			z	0	z	z	0	0	22	2	1	0	21	0
117			z	0	z	z	0	0	15	11	0	0	15	0
118			z	0	z	z	0	0	5	4	1	0	4	0
119	Toliver, Clay	1942	10	0	2,000	2,000	0	0	1	1	0	0	1	0
120	Xenia, Clay	1941	10	0	7,000	5,500	0	0	1	1	0	0	1	0
121	Clay City Consolidated, Clay, Wayne	1937	13,420	0	27,643,000	2,752,000	0	0	718	18	10	5	683	0
122			z	0	z	z	0	0	28	5	2	0	26	0
123			z	0	z	z	0	0	1	0	0	0	1	0
124			z	0	z	z	0	0	12	3	1	0	11	0
125			z	0	z	z	0	0	4	1	0	0	4	0
126			z	0	z	z	0	0	661	5	7	5	629	0
127									12	4	0	0	12	0
128	Bartelso South, Clinton	1942	10	0	800	800	0	0	1	1	0	0	1	0
129	Boulder, Clinton	1941	210	10	375,000	375,000	z	z	26	25	0	0	25	1
130			z	z	z	z	0	0	24	24	0	0	24	0
131			z	z	z	z	z	z	2	1	0	0	1	1
132	Centralia West, Clinton	1940	90	0	56,000	43,000	0	0	9	3	0	0	9	0
133	Hoffman, Clinton	1939	300	0	363,000	97,000	0	0	44	0	0	0	44	0
134			z	0	z	z	0	0	10	0	0	0	10	0
135			z	0	z	z	0	0	34	0	0	0	34	0
136	Posey, Clinton	1941	20	0	3,500	1,500	0	0	2	0	0	0	2	0
137	Centralia, Clinton, Marion	1937	2,850	0	22,360,000	2,262,000	0	0	906	0	53	9	739	0
138			z	0	z	z	0	0	23	0	2	0	21	0
139			z	0	z	z	0	0	562	0	11	3	517	0
140			z	0	11,888,000	1,158,000	0	0	319	0	40	5	200	0
141			z	0	24,000	4,000	0	0	2	0	0	1	1	0
142	Cooks Mills, Coles	1941	20	0	4,000	3,000	0	0	2	1	0	1	1	0
143	Mattoon	1939 ²⁵	20	0	23,000	6,000	0	0	2	0	0	0	1	0
144			10	0	z	z	0	0	1	0	0	0	0	0

²² Total of lines 66 to 94 inclusive. Cumulative oil production total based on the U. S. Bureau of Mines monthly report.

²³ Abandoned 1942.

²⁴ Abandoned 1940; revived 1941.

²⁵ Abandoned 1939; revived 1940.

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.	Character of Oil	Producing Formation							Deepest Zone Tested to End of 1942			
	Number of Wells	Artificial Lift			Initial	Avg. at End of 1942	Repressuring Operations ^d	Name	Age ^e	Character/ Porosity ^g	Depth, Avg. Ft.			Name	Depth of Hole, Ft.
											Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.		
Flowing	Artificial Lift			Gravity A.P.I. at 60° F., Weighted Average ⁵	Sulphur, Per Cent										
94	0	93	z	z	32.7	0.70	"Trenton"	Ord	L Por	561	601	50	A	"Trenton"	819
95	0	12,871													
96	0	2	z	z	34.2	0.25	Bethel	MisU	S Por	1,116	1,123	7	A	Dev	2,526
97	0	0	z	z	35.4	z	Devonian	Dev	L Por	1,830	1,893	5	D	Dev	1,900
98	0	28	z	z	36.4	0.20	Bethel	MisU	S Por	1,008	1,024	11	A	Dev	2,454
99	0	32											A	MisL	2,971
100	0	25	z	z	38.0	0.13	Weiler	MisU	S Por	2,490	2,504	14	A		
101	0	7	z	z	36.2	z	McClosky	MisL	L Por	2,810	2,817	7			
102	0	1	z	z	z	z	Aux Vases	MisU	S Por	2,733	2,738	5	A	MisL	2,929
103	0	14	z	z	39.0	0.17	McClosky	MisL	L Por	3,050	3,080	15	A	MisL	3,080
104	0	19											A	MisL	3,100
105	0	1	z	z	z	z	Tar Springs	MisU	S Por	2,320	2,332	12			
106	0	3	z	z	z	z	Cypress	MisU	S Por	2,595	2,614	5			
107	0	1	z	z	37.4	z	Bethel	MisU	S Por	2,788	2,800	12			
108	0	14	z	z	37.2	0.24	McClosky	MisL	L Por	2,965	2,978	6			
109	0	0	z	z	z	z	McClosky	MisL	L Por	3,098	3,139	7	A	MisL	3,139
110	0	6											D	MisU	2,383
111	0	1	z	z	z	z	Bethel	MisU	S Por	2,292	2,306	14			
112	0	4	z	z	35.4	0.25	Aux Vases ²⁷	MisU	S Por	2,335	2,351	11			
113	0	1													
114	0	1	z	z	z	z	Bethel	MisU	S Por	2,661	2,672	7	A	MisL	2,955
115	0	40											D	MisL	3,083
116	0	21	z	z	39.5	0.17	Tar Springs	MisU	S Por	2,340	2,360	15			
117	0	15	z	1,000±	38.5	0.28	Cypress	MisU	S Por	2,590	2,610	10			
118	0	4	z	z	36.4	z	McClosky	MisL	L Por	3,009	3,047	5			
119	0	1	z	z	37.1	z	McClosky	MisL	L Por	2,790	2,800	9	A	MisL	2,887
120	0	1	z	z	35.2	z	Aux Vases	MisU	S Por	2,785	2,806	12	D	MisL	2,991
121	0	683											A	Dev	4,840
122	0	26	z	z	37.9	z	Cypress	MisU	S Por	2,670	2,680	10			
123	0	1	z	z	38.0	z	Bethel	MisU	S Por	2,880	2,885	5			
124	0	11	z	z	38.0	z	Aux Vases	MisU	S Por	2,910	2,935	15			
125	0	4	z	z	38.0	z	Rosiclare	MisL	S Por	2,970	2,974	4			
126	0	629	z	z	38.5	z	McClosky ²⁷	MisL	L Por	2,980	2,990	10			
127	0	12													
128	0	1	z	z	39.0	z	Devonian	Dev	L Por	2,463	2,478	15	D	Dev	2,478
129	0	25											D	Dev	2,670
130	0	24	z	z	36.0	z	Bethel	MisU	S Por	1,193	1,203	10			
131	0	1	z	z	z	z	Devonian	Dev	L Por	2,618	2,668	y			
132	0	9	z	z	37.8	0.17	Bethel	MisU	S Por	1,408	1,415	7	D	MisU	1,450
133	0	44											D	Dev	2,914
134	0	10	z	z	z	z	Cypress	MisU	S Por	1,185	1,201	9			
135	0	34	z	z	32.2	0.21	Bethel	MisU	S Por	1,319	1,326	7			
136	0	2	z	z	36.1	0.17	Cypress	MisU	S Por	1,105	1,110	5	D	MisU	1,144
137	0	739											A	"Trenton"	4,068
138	0	21	z	z	36.4	0.20	Cypress	MisU	S Por	1,200	1,215	15			
139	0	517	z	25±	37.7	0.17	Bethel	MisU	S Por	1,355	1,375	20			
140	0	200	z	275	37.4	0.38	Devonian	Dev	L Por	2,860	2,874	14			
141	0	1	z	z	43.2	0.28	Trenton	Ord	L Por	4,020	4,120	40			
142	0	1	z	z	36.4	0.40	Aux Vases	MisU	S Por	1,824	1,834	10	A	MisU	1,873
143	0	1											A	Shakopee	4,914
144	0	0	z	z	44.1	0.16	Cypress	MisU	S Por	1,835	1,919	25			

²⁷ Wells producing from more than one sand, see Table 9.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^c
145			10	0	23,000	6,000	0	0	1	0	0	0	1	0
146	New Bellair, Crawford	1942	20	0	5,000	5,000	0	0	2	2	0	1	1	0
147	Albion, Edwards	1940	830	0	2,339,000	498,000	0	0	81	2	1	0	80	0
148			z	0	z	z	0	0	3	0	0	0	3	0
149			z	0	z	z	0	0	10	0	0	0	10	0
150			z	0	z	z	0	0						
151			z	0	z	z	0	0	2	2	0	0	2	0
152			z	0	z	z	0	0	61	0	1	0	60	0
153			z	0	z	z	0	0	5	0	0	0	5	0
154	Albion North, Edwards	1942	10	0	3,000	3,000	0	0	1	1	0	0	1	0
155	Bone Gap, Edwards	1941	340	0	293,000	227,000	0	0	18	14	0	0	18	0
156	Cowling, Edwards	1939	100	0	277,000	32,000	0	0	13	0	1	0	12	0
157	Ellery North, Edwards	1942	10	0	1,000	1,000	0	0	1	1	0	0	1	0
158	Sansville, Edwards	1942 ^{2a}	10	0	z	z	0	0	1	1	1	0	0	0
159	Ellery, Edwards, Wayne	1941	20	0	22,000	9,000	0	0	2	0	0	0	2	0
160	Grayville, Edwards, White	1939	80	0	142,000	18,000	0	0	8	0	1	0	8	0
161	Mason, Effingham	1940	100	0	143,000	35,000	0	0	9	1	0	0	9	0
162	Mason South, Effingham	1941	300	0	180,000	171,000	0	0	22	14	0	0	22	0
163			z	0	z	z	0	0	15	8	0	0	15	0
164			z	0	z	z	0	0						
165			z	0	z	z	0	0	1	0	0	0	1	0
166			z	0	z	z	0	0	6	6	0	0	6	0
167	Louden, Effingham, Fayette	1937	20,020	0	87,685,000	17,966,000	0	0	1,970	36	4	0	1,946	0
168			20,020	0	z	z	0	0	942	14	0	0	942	0
169			11,000	0	z	z	0	0	323	1	2	0	321	0
170			7,000	0	z	z	0	0	419	1	2	0	417	0
171			2,570	0	3,471,000	2,441,000	0	0	75	16	0	0	75	0
172									191	4	0	0	191	0
173	St. James, Fayette	1938	1,900	0	5,655,000	1,477,000	0	0	190	2	1	0	183	0
174	St. Paul, Fayette	1941	170	0	85,000	81,000	0	0	13	11	0	0	13	0
175	Akin, Franklin	1942	50	0	36,000	36,000	0	0	3	3	0	0	3	0
176	Benton, Franklin	1941	2,020	0	12,376,000	5,386,000	0	0	231	9	2	0	229	0
177	Benton North, Franklin	1941	90	0	129,000	96,000	0	0	11	5	0	0	11	0
178			z	0	z	z	0	0	3	3	0	0	3	0
179			z	0	z	z	0	0	2	0	0	0	2	0
180			z	0	z	z	0	0	2	0	0	0	2	0
181			z	0	z	z	0	0	1	1	0	0	1	0
182			z	0	z	z	0	0	1	1	0	0	1	0
183			z	0	z	z	0	0	2	0	0	0	2	0
184	Sesser, Franklin	1942	30	0	18,000	z	0	0	3	3	0	0	3	0
185	Thompsonville, Franklin	1940	220	0	222,000	34,000	0	0	19	0	4	0	15	0
186	Valier, Franklin	1942	10	0	500	500	0	0	1	1	0	0	1	0
187	West Frankfort	1941	20	0	z	z	0	0	3	2	0	0	3	0
188			z	0	z	z	0	0	2	1	0	0	2	0
189			z	0	z	z	0	0	1	1	0	0	1	0
190	Whittington, Franklin	1939	10	0	21,000	5,000	0	0	1	0	0	0	1	0
191	Inman, Gallatin	1940	60	0	28,000	11,000	0	0	5	1	0	0	5	0
192			z	0	z	z	0	0	2	0	0	0	2	0
193			z	0	z	z	0	0	1	1	0	0	1	0
194			z	0	z	z	0	0	1	0	0	0	1	0
195			z	0	z	z	0	0	1	0	0	0	1	0
196	Inman East, Gallatin	1940	530	0	982,000	526,000	0	0	61	22	0	0	61	0
197			z	0	z	z	0	0	3	0	0	0	3	0
198			z	0	z	z	0	0						
199			z	0	z	z	0	0	3	3	0	0	3	0
200			z	0	z	z	0	0	37	10	0	0	37	0

^{2a} Abandoned 1942.

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.		Repressuring Operation ^d (Gravity A.P.I. at 60° F., Weighted Average ^e , Sulphur, Per Cent	Character of Oil	Producing Formation							Deepest Zone Tested to End of 1942		
	Number of Wells		Initial	Avg. at End of 1942			Name	Age ^e	Character/ ^f	Porosity ^g	Depth, Avg. Ft.		Structure ^h	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift									Top Prod. Zone	Bottoms Prod. Wells				Net Thickness, Avg. Ft.
145	0	1	z	z	36.6	0.29	McClosky	MisL	L	Por	2,000	2,027	12			
146	0	1	z	z	z	z	Pennsylvanian	Pen	S	Por	1,169	1,200	30	A	Dev	2,760
147	0	80												A	Dev	5,185
148	0	3	z	z	34.0	z	Bridgeport	Pen	S	Por	1,571	1,622	10			
149	0	10	z	z	34.0	z	Waltersburg	MisU	S	Por	2,365	2,375	10			
150	0	3	z	z	38.0	z	Bethel ²⁸	MisU	S	Por	2,935	2,949	14			
151	0	2	z	z	39.0	z	Aux Vases	MisU	S	Por	3,040	3,056	16			
152	0	60	z	z	40.0	0.18	McClosky	MisL	L	Por	3,108	3,119	11			
153	0	5														
154	0	1	z	z	z	z	Aux Vases	MisU	S	Por	3,054	3,066	12	A	MisU	3,261
155	0	18	z	z	40.5	0.33	McClosky	MisL	L	Por	3,266	3,325	8	D	MisL	3,350
156	0	12	z	z	36.6	0.23	Cypress	MisU	S	Por	2,620	2,640	12	D	MisL	3,175
157	0	1	z	z	z	z	McClosky	MisL	L	Por	3,418	3,425	7	A	MisL	3,496
158	0	0	z	z	z	z	Waltersburg	MisU	S	Por	2,403	2,407	4	A	MisL	3,294
159	0	2	z	z	39.1	z	McClosky	MisL	L	Por	3,341	3,353	12	D	MisL	3,353
160	0	3	z	z	35.8	0.31	McClosky	MisL	L	Por	3,093	3,188	6	A	MisL	3,269
161	0	9	z	z	38.4	0.21	McClosky	MisL	L	Por	2,490	2,497	7	A	MisL	2,525
162	0	22												A	MisL	2,462
163	0	15	z	z	38.0	z	Bethel	MisU	S	Por	2,305	2,316	11			
164	0	z	z	z	z	z	Aux Vases ²⁸	MisU	S	Por	2,360	2,374	14			
165	0	1	z	z	38.4	0.21	McClosky	MisL	L	Por	2,451	2,462	7			
166	0	6														
167	231	1,715												A	St. Peter	4,679
168	62	880	z	280±	36.6	0.25	Cypress	MisU	S	Por	1,493	1,515	22			
169	1	322	z	335	37.8	0.24	Paint Creek	MisU	S	Por	1,530	1,545	15			
170	5	414	z	300	38.5	0.20	Bethel	MisU	S	Por	1,550	1,566	16			
171	30	45	z	1,280	28.2	0.48	Devonian	Dev	L	Por	3,000	3,025	15			
172	133	58														
173	0	183	z	z	34.4	0.31	Cypress	MisU	S	Por	1,581	1,600	16	A	Dev	3,375
174	0	13	z	z	34.0	0.23	Bethel	MisU	S	Por	1,885	1,906	6	D	MisU	1,906
175	0	3	z	z	32.0	z	Cypress	MisU	S	Por	2,839	2,860	10	A	MisL	3,263
176	0	229	z	z	41.7	0.12	Tar Springs	MisU	S	Por	2,100	2,150	34	A	MisL	3,203
177	0	11												D	MisL	2,890
178	0	3	z	z	z	z	Paint Creek	MisU	S	Por	2,595	2,605	10			
179	0	2	z	z	38.4	0.15	Bethel	MisU	S	Por	2,606	2,623	10			
180	0	2	z	z	39.0	0.15	Aux Vases	MisU	S	Por	2,689	2,700	10			
181	0	1	z	z	z	z	Leviata	MisL	L	Por	2,743	2,751	8			
182	0	1	z	z	z	z	Rosciata	MisL	S	Por	2,780	2,788	7			
183	0	2	z	z	z	z	McClosky	MisL	L	Por	2,783	2,792	5			
184	0	3	z	z	39.0	z	Aux Vases	MisU	S	Por	2,701	2,708	7	D	MisL	2,926
185	0	15	z	z	37.8	0.16	McClosky	MisL	L	Por	3,121	3,136	10	A	MisL	3,136
186	0	1	z	z	z	z	McClosky	MisL	L	Por	2,713	2,725	12	A	MisL	2,725
187	0	3												D	MisL	2,989
188	0	2	z	z	38.4	0.13	Tar Springs	MisU	S	Por	2,054	2,080	14			
189	0	1	z	z	z	z	Aux Vases	MisU	S	Por	2,698	2,713	15			
190	0	1	z	z	37.6	0.24	McClosky-St. Louis	MisL	L	Por	2,869	3,068	9	D	MisL	3,068
191	0	5												D	MisL	3,010
192	0	2	z	z	36.0	z	Palestine	MisU	S	Por	1,832	1,842	10			
193	0	1	z	z	z	z	Waltersburg	MisU	S	Por	1,990	2,001	10			
194	0	1	z	z	z	z	Aux Vases	MisU	S	Por	2,743	2,788	13			
195	0	1	z	z	z	z	McClosky	MisL	L	Por	2,730	2,742	10			
196	0	61												A	MisL	2,915
197	0	3	z	z	24.4	0.31	Pennsylvanian	Pen	S	Por	780	792	12			
198	0	z	z	z	z	z	Clore ²⁸	MisU	L	Por	1,725	1,737	12			
199	0	3	z	z	z	z	Waltersburg	MisU	S	Por	1,980	2,003	23			
200	0	37	z	z	34.6	0.24	Tar Springs	MisU	S	Por	2,082	2,097	15			

²⁸ Producing in combination wells.

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	During 1942		End of 1942			
									Completed to End of 1942	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas	
201			z	0	z	z	0	0	8	2	0	0	8	0
202			z	0	z	z	0	0	3	0	0	0	3	0
203			z	0	z	z	0	0	7	7	0	0	7	0
204	Inman North, Gallatin.....	1941	30	0	9,000	4,000	0	0	3	1	0	0	3	0
205			z	0	z	z	0	0	1	1	0	0	1	0
206			z	0	z	z	0	0	2	0	0	0	2	0
207	Inman West, Gallatin.....	1942	90	0	32,000	32,000	0	0	5	5	0	0	5	0
208	Junction, Gallatin.....	1939	150	0	177,000	9,000	0	0	14	0	0	0	14	0
209	Omaha, Gallatin.....	1940	260	10	626,000	256,000	z	z	21	1	0	0	20	1
210			z	0	z	z	0	0	17	0	0	0	17	0
211			z	10	z	z	z	z	4	1	0	0	3	1
212	Belle Prairie, Hamilton...	1940	20	0	59,000	24,000	0	0	2	0	0	0	2	0
213	Blairsville, Hamilton.....	1942	220	0	55,000	55,000	0	0	10	10	0	0	10	0
214			z	0	z	z	0	0	9	9	0	0	9	0
215			z	0	z	z	0	0						
216			z	0	z	z	0	0						
217			z	0	z	z	0	0						
218	Bungay, Hamilton.....	1941	10	0	5,500	2,500	0	0	1	1	0	0	1	0
219	Dahlgren, Hamilton.....	1941	540	0	808,000	127,000	0	0	42	0	2	0	40	0
220	Dale-Hoodville Consoli- dated, Hamilton	1940	4,310	0	12,226,000	5,273,000	0	0	364	73	0	0	363	0
221			z	0	z	z	0	0	35	8	0	0	35	0
222			z	0	z	z	0	0	87	3	0	0	87	0
223			z	0	z	z	0	0	172	58	0	0	172	0
224			z	0	z	z	0	0	1	1	0	0	1	0
225			z	0	z	z	0	0	24	0	0	0	23	0
226			z	0	z	z	0	0	45	3	0	0	45	0
227	Rural Hill, Hamilton.....	1941	1,780	0	5,341,000	3,726,000	0	0	172	77	1	0	171	0
228			z	0	z	z	0	0	1	1	0	0	1	0
229			z	0	z	z	0	0	78	39	1	0	77	0
230			z	0	z	z	0	0	8	3	0	0	8	0
231			z	0	z	z	0	0						
232			z	0	z	z	0	0	25	6	0	0	25	0
233			z	0	z	z	0	0	60	28	0	0	60	0
234	Walpole, Hamilton.....	1941	630	0	911,000	703,000	0	0	33	15	0	0	33	0
235			z	0	z	z	0	0	1	1	0	0	1	0
236			z	0	z	z	0	0	32	14	0	0	32	0
237	Elkville, Jackson.....	1941	10	0	1,000	500	0	0	1	0	0	0	1	0
238	Boos North, Jasper.....	1940	1,020	0	1,649,000	654,000	0	0	60	14	2	0	58	0
239	Hidalgo, Jasper.....	1940	20	0	9,000	2,000	0	0	1	0	0	0	1	0
240	Ste. Marie, Jasper.....	1941	430	0	330,000	314,000	0	0	20	17	0	0	20	0
241	Coil West, Jefferson.....	1942	10	0	1,000	1,000	0	0	1	1	0	0	1	0
242	Cravat, Jefferson.....	1939	100	0	166,000	41,000	0	0	11	0	0	0	11	0
243	King, Jefferson.....	1942	80	0	31,000	31,000	0	0	5	5	0	0	5	0
244			z	0	z	z	0	0	3	3	0	0	3	0
245			z	0	z	z	0	0						
246			z	0	z	z	0	0						
247			z	0	z	z	0	0	2	2	0	0	2	0
248	Markham City, Jefferson	1942	320	0	160,000	160,000	0	0	12	12	0	0	12	0
249			z	0	z	z	0	0						
250			z	0	z	z	0	0	11	11	0	0	11	0
251			z	0	z	z	0	0	1	1	0	0	1	0
252	Roaches, Jefferson.....	1938	160	0	388,000	54,000	0	0	10	0	0	0	10	0
253	Woodlawn, Jefferson.....	1940	1,210	0	5,531,000	2,998,000	0	0	148	11	2	0	146	0
254	Dix, Jefferson, Marion...	1938	1,470	0	3,011,000	651,000	0	0	81	5	0	0	81	0
255			z	0	z	z	0	0	80	4	0	0	80	0
256			z	0	z	z	0	0	1	1	0	0	1	0
257	Kell, Jefferson, Marion...	1942	10	0	z	z	0	0	1	1	0	0	1	0

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.	Character of Oil	Producing Formation	Deepest Zone Tested to End of 1942										
	Number of Wells						Repressuring Operations ^d	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.			Name	Depth of Hole, Ft.
	Flowing	Artificial Lift										Initial	Avg. at End of 1942	Gravity A.P.I. at 60° F., Weighted Average ⁵		
201	0	8	z	z	35.2	0.23	Cypress	MisU	S	Por	2,430	2,440	10			
202	0	3	z	z	z	z	McClosky	MisL	L	Por	2,804	2,910	10			
203	0	7														
204	0	3														
205	0	1	z	z	z	z	Aux Vases	MisU	S	Por	2,816	2,841	25	D	MisL 3,020	
206	0	2	z	z	36.6	0.19	McClosky	MisL	L	Por	2,850	3,020	15			
207	0	5	z	z	38.0	z	Weiler	MisU	S	Por	2,452	2,500	17	D	MisL 2,990	
208	0	14	z	z	37.2	0.22	Waltersburg	MisU	S	Por	1,763	1,804	15	D	MisL 2,711	
209	0	20												D	MisL 3,578	
210	0	17	z	z	25.9	0.23	Palestine	MisU	S	Por	1,690	1,710	20			
211	0	3	z	z	27.0	0.24	Tar Springs	MisU	S	Por	1,880	1,890	10			
212	0	2	z	z	37.0	0.12	McClosky	MisL	L	Por	3,467	3,578	6	D	MisL 3,578	
213	0	10												D	MisL 3,531	
214	0	9	z	z	38.1	z	Aux Vases	MisU	S	Por	3,290	3,312	12			
215	0	3	z	z	z	z	Levias ²⁸	MisL	L	Por	3,340	3,350	10			
216	0	1	z	z	z	z	McClosky ²⁸	MisL	L	Por	3,440	3,447	7			
217	0	1	z	z	z	z										
218	0	1	z	z	z	z	Aux Vases	MisU	S	Por	3,275	3,290	15	D	MisL 3,513	
219	0	40	z	z	38.7	0.18	McClosky	MisL	L	Por	3,337	3,359	10	A	MisL 3,382	
220	22	341												D	MisL 3,314	
221	0	35	z	z	37.6	0.25	Cypress	MisU	S	Por	2,678	2,708	18			
222	0	87	z	z	39.0	0.19	Bethel	MisU	S	Por	2,890	2,910	20			
223	20	152	z	z	38.5	0.39	Aux Vases	MisU	S	Por	2,970	3,000	30			
224	0	1	z	z	z	z	Levias	MisL	L	Por	3,140	3,163	13			
225	0	2	z	z	39.0	z	McClosky	MisL	L	Por	3,150	3,224	10			
226	2	43														
227	25	146												A	MisL 3,451	
228	0	1	z	z	z	z	Cypress	MisU	S	Por	2,707	2,729	22			
229	9	68	z	z	38.0	0.15	Aux Vases	MisU	S	Por	3,135	3,160	25			
230	0	8	z	z	z	z	Levias	MisL	L	Por	3,200	3,230	30			
231	0	1	z	z	38.6	z	Rosiclare ²⁸	MisL	L	Por	3,230	3,260	15			
232	4	21	z	z	38.6	0.19	McClosky	MisL	L	Por	3,260	3,320	22			
233	12	48														
234	0	33												A	MisL 3,289	
235	0	1	z	z	36.1	z	Tar Springs	MisU	S	Por	2,464	2,478	8			
236	0	32	z	z	36.3	z	Aux Vases	MisU	S	Por	3,050	3,085	30			
237	0	1	z	z	35.8	0.22	Paint Creek Stray	MisU	S	Por	2,000	2,011	11	D	MisL 2,387	
238	0	58	z	z	38.6	0.20	McClosky	MisL	L	Por	2,791	2,834	8	A	MisL 2,950	
239	0	1	z	z	38.6	0.20	McClosky	MisL	L	Por	2,560	2,607	8	N	Dev 4,139	
240	0	20	z	z	40.2	0.14	McClosky	MisL	L	Por	2,823	2,833	8	A	MisL 2,935	
241	0	1	z	z	z	z	Levias-McClosky	MisL	L	Por	2,791	2,856	16	A	MisL 2,981	
242	0	11	z	z	35.4	0.23	Bethel	MisU	S	Por	2,066	2,077	11	D	MisL 2,356	
243	0	5												A	MisL 2,928	
244	0	3	z	z	38.6	0.17	Aux Vases	MisU	S	Por	2,740	2,762	22			
245	0	1	z	z	z	z	Levias ²⁸	MisL	S	Por	2,771	2,782	11			
246	0	1	z	z	z	z	McClosky ²⁸	MisL	L	Por	2,823	2,830	7			
247	0	2														
248	0	12														
249	0	1	z	z	z	z	Levias ²⁸	MisL	L	Por	3,060	3,065	5	A	MisL 3,214	
250	0	11	z	z	38.0	z	McClosky	MisL	L	Por	3,065	3,070	5			
251	0	1														
252	0	10	z	z	37.0	0.22	Rosiclare-McClosky	MisL	L	Por	2,187	2,257	22	D	MisL 2,326	
253	0	146	z	z	37.8	0.16	Bethel	MisU	S	Por	1,960	1,984	24	A	MisL 2,366	
254	0	81												A	Dev 3,650	
255	0	80	z	275	39.0	0.23	Bethel	MisU	S	Por	1,948	1,961	13			
256	0	1	z	z	z	z	Rosiclare	MisL	S	Por	2,101	2,109	8			
257	0	1	z	z	z	z	McClosky	MisL	L	Por	2,625	2,627	2	A	MisL 2,720	

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas ^c
258	Elk Prairie, Jefferson	1938 ²⁹	10	0	700	0	0	0	1	0	0	0	0	0
259	Ina, Jefferson	1938 ³⁰	10	0	15,000	0	0	0	1	0	0	0	0	0
260	Marcoc, Jefferson	1938 ³¹	20	0	12,500	0	0	0	2	0	0	0	0	0
261	Ruark, Lawrence	1941	10	0	x	x	0	0	1	0	0	0	1	0
262	Russellville gas, Lawrence	1937	0	1,670	0	0	4,290	1,472	54	5	0	0	0	53
263			0	1,600	0	0	x	x	11	3	0	0	0	11
264			0	270	0	0	x	x	43	2	0	0	0	42
265	St. Francisville East, Lawrence	1941	90	0	47,000	x	x	x	9	6	0	0	0	9
266	Carlinville North, Macoupin	1941	30	0	x	350	0	0	3	0	0	0	3	0
267	Plainview, Macoupin	1942	10	0	500	500	0	0	1	1	0	0	1	0
268	St. Jacob, Madison	1942	720	0	261,000	261,000	0	0	23	23	0	0	23	0
269	Alma, Marion	1941	20	0	27,000	19,000	0	0	3	1	1	0	2	0
270	Patoka, Marion	1937	910	0	2,839,000	343,000	0	0	130	0	0	0	105	0
271			885	0	x	x	0	0	127	0	0	0	102	0
272			25	0	x	x	0	0	3	0	0	0	3	0
273	Patoka East, Marion	1941	430	0	1,343,000	680,000	0	0	56	0	0	0	56	0
274			x	0	x	x	0	0	51	0	0	0	51	0
275			x	0	x	x	0	0	5	0	0	0	5	0
276	Salem, Marion	1938	9,120	0	167,052,000	14,786,000	0	0	2,418	2	24	51	2,312	0
277			9,120	0	x	x	0	0	460	1	9	6	441	0
278			x	0	x	x	0	0	152	0	5	0	145	0
279			x	0	x	x	0	0	1	1	0	0	1	0
280			x	0	x	x	0	0	550	0	5	16	505	0
281			x	0	x	x	0	0	8	0	0	0	8	0
282			5,000	0	32,821,000	1,291,000	0	0	541	0	5	12	424	0
283			1,000	0	1,713,000	795,000	0	0					99	0
284									706	0	0	17	689	0
285	Tonti, Marion	1939	380	0	5,589,000	859,000	0	0	55	0	1	0	54	0
286			x	0	x	x	0	0	5	0	0	0	5	0
287			x	0	x	x	0	0	15	0	0	0	15	0
288			x	0	x	x	0	0	29	0	1	0	28	0
289			x	0	1,378,000	128,000	0	0	6	0	0	0	6	0
290	Fairman, Marion, Clinton	1939	490	0	741,000	205,000	0	0	25	0	0	0	24	0
291	Mt. Olive, Montgomery	1942	10	0	x	x	0	0	1	1	0	0	1	0
292	Raymond, Montgomery	1940	30	0	3,000	500	0	0	3	0	0	0	2	0
293	Waggoner, Montgomery	1940	40	0	4,000	1,000	0	0	4	0	0	0	4	0
294	Tamaroa, Perry	1942	50	0	2,000	2,000	0	0	3	3	0	1	2	0
295	Amity, Richland	1942	10	0	1,000	1,000	0	0	1	1	0	0	1	0
296	Bonpas, Richland	1941	20	0	45,000	26,000	0	0	1	1	0	0	1	0
297	Bonpas West, Richland	1941	160	0	81,000	34,000	0	0	10	3	1	0	8	0
298			10	0	x	x	0	0	1	0	0	0	1	0
299			10	0	x	x	0	0	1	0	0	0	1	0
300			140	0	x	x	0	0	8	3	1	0	8	6
301	Noble, Richland	1937	4,200	10	14,660,000	2,548,000	x	x	291	27	0	9	285	1
302			x	0	x	x	0	0	114	25	0	4	109	0
303			x	10	x	x	x	x	177	2	0	5	148	1
304	Olney, Richland	1937	430	0	1,218,000	123,000	0	0	39	2	2	0	34	0
305	Snell, Richland	1938	40	0	174,000	11,000	0	0	4	0	0	0	4	0
306	Stringtown, Richland	1941	140	0	116,000	101,000	0	0	8	5	0	0	8	0
307	Parkersburg, Richland, Edwards	1941	630	0	2,109,000	1,366,000	0	0	36	12	0	0	36	0
308			x	0	x	x	0	0	1	1	0	0	1	0
309			x	0	x	x	0	0	35	11	0	0	35	0
310	Dundas Consolidated, Richland, Jasper	1939	6,540	0	9,442,000	2,353,000	0	0	279	39	1	0	275	0

²⁹ Abandoned 1940.³⁰ Abandoned 1941.³¹ Abandoned 1941.

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells						
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942			Eod of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^d	
311			30	0	z	z	0	0	4	3	0	0		4	0
312			20	0	z	z	0	0	2	1	0	0		2	0
313			z	0	z	z	0	0							
314			6,500	0	z	z	0	0	268	32	1	0	264	0	
315			60	0	z	z	0	0	5	3	0	0	5	0	
316	Dundas East, Richland, Jasper	1942	240	0	113,000	113,000	0	0	11	11	0	0	11	0	
317	Eldorado, Saline.....	1941	20	0	4,000	3,000	0	0	2	0	0	0	2	0	
318	Lakewood, Shelby.....	1941	20	0	16,000	8,000	0	0	2	0	0	0	2	0	
319			10	0	z	z	0	0	1	0	0	0	1	0	
320			10	0	z	z	0	0	1	0	0	0	1	0	
321	Stewardsoo, Shelby.....	1939	30	0	31,000	9,000	0	0	3	0	0	0	3	0	
322	Friedonsville, Wabash.....	1942	60	0	10,000	10,000	0	0	7	7	1	0	6	0	
323			z	0	z	z	0	0	3	3	1	0	2	0	
324			z	0	z	z	0	0	3	3	0	0	3	0	
325			z	0	z	z	0	0	1	1	0	0	1	0	
326	Keensburg Consolidated, Wabash	1939	2,630	0	7,766,000	1,704,000	0	0	330	23	4	5	314	0	
327			z	0	z	z	0	0	18	2	0	2	16	0	
328			z	0	z	z	0	0	2	0	0	0	2	0	
329			z	0	z	z	0	0	4	0	0	0	4	0	
330			z	0	z	z	0	0	9	2	0	0	9	0	
331			z	0	z	z	0	0	247	9	4	2	234	0	
332			z	0	z	z	0	0	1	1	0	0	1	0	
333			z	0	z	z	0	0	8	2	0	0	8	0	
334			z	0	z	z	0	0	4	2	0	0	4	0	
335			z	0	z	z	0	0	23	4	0	1	22	0	
336			z	0	z	z	0	0	14	6	0	0	14	0	
337	Keensburg East, Wabash	1939	20	0	z	z	0	0	3	0	1	0	2	0	
338	Maud, Wabash.....	1940	250	0	298,000	50,000	0	0	20	0	1	0	17	0	
339			z	0	z	z	0	0	2	0	0	0	2	0	
340			z	0	z	z	0	0	1	0	0	0	1	0	
341			z	0	z	z	0	0	1	0	0	0	1	0	
342			z	0	z	z	0	0	15	0	1	0	12	0	
343			z	0	z	z	0	0	1	0	0	0	1	0	
344	Mt. Carmel, Wabash.....	1940	1,260	0	2,739,000	1,019,000	0	0	199	10	3	1	193	0	
345			z	0	z	z	0	0	30	1	1	0	27	0	
346			z	0	z	z	0	0	1	0	0	0	1	0	
347			z	0	z	z	0	0	1	0	0	0	1	0	
348			z	0	z	z	0	0	130	8	2	1	127	0	
349			z	0	z	z	0	0	1	0	0	0	1	0	
350			z	0	z	z	0	0	2	0	0	0	2	0	
351			z	0	z	z	0	0	23	0	0	0	23	0	
352			z	0	z	z	0	0	11	1	0	0	11	0	
353	Mt. Carmel West, Wabash	1939	20	0	z	z	0	0	2	0	0	0	1	0	
354	Pattoo, Wabash.....	1940 ³²	40	0	3,500	1,500	0	0	4	0	1	0	3	0	
355			30	0	z	z	0	0	3	0	1	0	2	0	
356			10	0	z	z	0	0	1	0	0	0	1	0	
357	Laocaster, Wabash, Lawrence	1940	340	0	485,000	45,000	0	0	30	2	2	3	20	0	
358			z	0	z	z	0	0	1	1	0	0	1	0	
359			z	0	z	z	0	0	29	1	2	3	19	0	
360	Cordes, Washington.....	1939	1,440	0	2,161,000	437,000	0	0	131	3	1	1	129	0	
361	Dubois, Washington.....	1939	140	0	84,000	27,000	0	0	10	1	0	0	10	0	
362	Dubois West, Washington	1942	10	0	2,000	2,000	0	0	1	1	0	0	1	0	
363	Irvingtoo, Washington....	1940	800	0	2,303,000	749,000	0	0	83	9	1	0	82	0	
364			z	0	z	z	0	0	1	1	0	0	1	0	
365			z	0	z	z	0	0	74	8	1	0	73	0	
366			z	0	z	157,000	0	0	7	0	0	0	7	0	
367			z	0	z	z	0	0	1	0	0	0	1	0	
368	McKioley, Washington....	1940	60	0	136,000	45,000	0	0	6	0	1	0	5	0	
369			50	0	z	39,000	0	0	5	0	1	0	4	0	
370			10	0	z	6,000	0	0	1	0	0	0	1	0	
371	Aden North, Wayne.....	1938	1,100	0	2,758,000	272,000	0	0	66	1	1	0	61	0	

³² Bieh sand production since 1936, formerly included in the Alleedale pool.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.		Character of Oil		Producing Formation							Deepest Zone Tested to End of 1942		
	Flowing	Artificial Lift	Initial	Avg. at End of 1942	Gravity A.P.I. at 60° F., Weighted Averages	Sulphur, Per Cent	Name	Age ^e	Character/ ^f	Porosity	Depth, Avg. Ft.		Net Thickness, Avg. Ft.	Structure ^h	Name	Depth of Hole, Ft.
											Top Prod. Zone	Bottoms Prod. Wells				
311	0	4	z	z	37.0	z	Cypress	MisU	S	Por	2,570	2,590	23			
312	0	2	z	z	38.0	z	Aux Vases	MisU	S	Por	2,705	2,738	10			
313	0		z	z	z	z	Rosiclare ²⁸	MisL	S	Por	2,847	2,860	6			
314	0	264	z	z	38.4	0.17	McClosky	MisL	L	Por	2,869	2,920	13			
315	0	5	z	z	z	z										
316	0	11	z	z	z	z	McClosky	MisL	L	Por	2,999	3,007	8	A	MisL	3,106
317	0	2	z	z	z	z	McClosky	MisL	L	Por	2,943	2,950	5	A	MisL	3,000
318	0	2	z	z	z	z								D	MisL	1,875
319	0	1	z	z	29.6	z	Bethel	MisU	S	Por	1,692	1,700	8			
320	0	1	z	z	31.7	0.23	Aux Vases	MisU	S	Por	1,723	1,735	9			
321	0	3	z	z	37.8	0.18	Aux Vases	MisU	S	Por	1,942	1,969	5	D	MisU	1,969
322	0	6	z	z	z	z								A	MisU	2,686
323	0	2	z	z	z	z	Biehl	Pen	S	Por	1,759	1,785	21			
324	0	3	z	z	37.0	z	Cypress	MisU	S	Por	2,289	2,301	12			
325	0	1	z	z	z	z	Bethel	MisU	S	Por	2,464	2,480	10			
326	0	314	z	z	z	z								A	MisL	3,065
327	0	16	z	z	38.0	z	Biehl	Pen	S	Por	1,719	1,733	14			
328	0	2	z	z	z	z	Clore	MisU	S	Por	1,811	1,823	9			
329	0	4	z	z	z	z	Palestine	MisU	S	Por	1,830	1,846	16			
330	0	9	z	z	z	z	Tar Springs	MisU	S	Por	2,060	2,075	15			
331	0	234	z	z	38.6	0.29	Cypress	MisU	S	Por	2,444	2,462	18			
332	0	1	z	z	z	z	Paint Creek	MisU	S	Por	2,550	2,570	12			
333	0	8	z	z	36.6	z	Bethel	MisU	S	Por	2,570	2,588	18			
334	0	4	z	z	z	z	Aux Vases	MisU	S	Por	2,760	2,790	30			
335	0	22	z	z	37.9	0.38	McClosky	MisL	L	Por	2,790	2,797	7			
336	0	14	z	z	z	z										
337	0	2	z	z	37.6	0.26	McClosky	MisL	L	Por	2,703	2,714	6	D	MisL	2,714
338	0	17	z	z	z	z								D	MisL	2,671
339	0	2	z	z	37.7	z	Waltersburg	MisU	S	Por	1,935	1,956	21			
340	0	1	z	z	z	z	Mississippian U	MisU	S	Por	2,120	2,132	12			
341	0	1	z	z	z	z	Rosiclare	MisL	S	Por	2,639	2,650	9			
342	0	12	z	z	38.0	0.30	McClosky	MisL	L	Por	2,650	2,658	8			
343	0	1	z	z	z	z										
344	0	193	z	z	z	z								A	MisL	2,477
345	0	27	z	z	32.0	z	Biehl	Pen	S	Por	1,450	1,464	14			
346	0	1	z	z	z	z	Palestine	MisU	S	Por	1,540	1,550	10			
347	0	1	z	z	z	z	Tar Springs	MisU	S	Por	1,790	1,794	4			
348	0	127	z	z	38.4	z	Cypress	MisU	S	Por	2,033	2,048	15			
349	0	1	z	z	z	z	Bethel	MisU	S	Por	2,100	2,115	15			
350	0	2	z	z	36.6	0.36	Rosiclare	MisL	S	Por	2,360	2,364	4			
351	0	23	z	z	38.4	0.42	McClosky	MisL	L	Por	2,370	2,380	10			
352	0	11	z	z	z	z										
353	0	1	z	z	z	z	Tar Springs	MisU	S	Por	1,940	1,955	15	D	MisL	2,556
354	0	3	z	z	z	z								A	MisL	2,313
355	0	2	z	z	z	z	Biehl	Pen	S	Por	1,470	1,485	15			
356	0	1	z	z	z	z	McClosky	MisL	L	Por	2,309	2,313	4			
357	0	20	z	z	z	z								A	MisL	2,765
358	0	1	z	z	z	z	Bethel	MisU	S	Por	2,533	2,550	11			
359	0	18	z	z	39.8	0.28	McClosky	MisL	L	Por	2,683	2,700	9			
360	1	128	z	z	37.4	0.19	Bethel	MisU	S	Por	1,259	1,285	17	A	MisL	1,550
361	0	10	z	z	38.0	0.26	Bethel	MisU	S	Por	1,359	1,370	11	D	Dev	3,537
362	0	1	z	z	z	z	Bethel	MisU	S	Por	1,346	1,352	6	A	MisL	1,685
363	0	82	z	z	z	z								A	Dev	3,150
364	0	1	z	z	z	z	Weiler	MisU	S	Por	1,386	1,410	14			
365	0	73	z	z	37.6	0.16	Bethel	MisU	S	Por	1,537	1,550	10			
366	0	7	z	z	39.0	0.27	Devonian	Dev	L	Por	3,092	3,150	5			
367	0	1	z	z	z	z										
368	0	5	z	z	z	z								D	Dev	2,567
369	0	4	z	z	44.1	0.18	Renault	MisU	S	Por	982	996	14			
370	0	1	z	z	41.7	z	Devonian	Dev	L	Por	2,250	2,272	4			
371	0	61	z	z	39.0	0.17	McClosky	MisL	L	Por	3,321	3,341	12	A	Dev	5,393

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil	Producing Gas ^c
372	Barnhill, Wayne	1939	880	0	1,582,000	122,000	0	0	64	0	3	0	59	0
373			x	0	x	x	0	0	61	0	0	0	56	0
374			x	0	x	x	0	0	1	0	0	0	1	0
375									2	0	0	0	2	0
376	Barnhill East, ³³ Wayne	1939	60	0	35,000	x	0	0	5	1	0	0	4	0
377			x	0	x	x	0	0	2	1	0	0	1	0
378			x	0	x	x	0	0	1	0	0	0	1	0
379			x	0	x	x	0	0	2	0	0	0	2	0
380	Boyleston, Wayne	1938	1,920	0	3,023,000	672,000	0	0	114	14	3	0	111	0
381			x	0	x	x	0	0	1	1	0	0	1	0
382			x	0	x	x	0	0	1	0	0	0	1	0
383			x	0	x	x	0	0	109	11	3	0	106	0
384									3	2	0	0	3	0
385	Cisoe, Wayne	1937	920	0	2,640,000	178,000	0	0	48	1	0	0	46	0
386					x	x	0	0	2	0	0	0	2	0
387					x	x	0	0	1	0	0	0	1	0
388					x	x	0	0	45	1	0	0	43	0
389	Cisoe North, Wayne	1942	20	0	2,000	2,000	0	0	1	1	0	0	1	0
390	Coil, Wayne	1942	340	0	253,000	253,000	0	0	14	14	1	0	13	0
391			x	0	x	x	0	0	12	12	1	0	11	0
392			x	0	x	x	0	0	2	2	0	0	2	0
393	Covington, Wayne	1942	890	0	1,070,000	1,070,000	0	0	32	32	0	0	32	0
394			x	0	x	x	0	0	1	1	0	0	1	0
395			x	0	x	x	0	0	4	4	0	0	4	0
396			x	0	x	x	0	0	25	25	0	0	25	0
397									2	2	0	0	2	0
398	Fairfield, Wayne	1942	10	0	1,000	1,000	0	0	1	1	0	0	1	0
399	Geff, Wayne	1941	290	0	120,000	116,000	0	0	15	14	0	0	15	0
400			x	0	x	x	0	0	12	12	0	0	12	0
401			x	0	x	x	0	0	3	2	0	0	3	0
402	Geff West, Wayne	1942	240	0	12,000	12,000	0	0	3	3	0	0	3	0
403	Goldengate, Wayne	1939	40	0	17,000	x	0	0	3	1	0	2	1	0
404			x	0	x	x	0	0	1	1	0	0	1	0
405			x	0	x	x	0	0	2	1	0	0	2	0
406	Johnsonville, Wayne	1941	3,790	0	10,668,000	5,136,000	0	0	247	30	0	0	247	0
407			x	0	x	x	0	0	33	14	0	0	33	0
408			x	0	x	x	0	0						
409			x	0	x	x	0	0	207	11	0	0	207	0
410									7	5	0	0	7	0
411	Johnsonville South, Wayne	1942	20	0	2,000	2,000	0	0	2	2	0	0	2	0
412			x	0	x	x	0	0	1	1	0	0	1	0
413			x	0	x	x	0	0	1	1	0	0	1	0
414	Johnsonville West, ³⁴ Wayne	1942	10	0	x	x	0	0	1	1	1	0	0	0
415	Leech Township, Wayne	1938	240	0	353,000	51,000	0	0	14	0	0	0	14	0
416	Mt. Erie, Wayne	1938	320	0	97,000	86,000	0	0	11	10	0	0	11	0
417			x	0	x	x	0	0	3	3	0	0	3	0
418			x	0	x	x	0	0	1	1	0	0	1	0
419			x	0	x	x	0	0	6	5	0	0	6	0
420									1	1	0	0	1	0
421	Mt. Erie South, ³⁵ Wayne	1939	10	0	9,000	2,000	0	0	2	1	0	0	1	0
422			x	0	x	x	0	0	1	1	0	0	1	0
423			x	0	x	x	0	0	1	0	0	0	0	0
424	Mayberry, Wayne	1941	330	0	106,000	100,000	0	0	6	2	0	0	6	0
425	Rinard, ³⁶ Wayne	1937	10	0	15,000	0	0	0	1	0	0	0	0	0
426	Sims, Wayne	1941	1,610	0	1,664,000	1,623,000	0	0	56	52	1	0	55	0
427			x	0	x	x	0	0	10	6	0	0	10	0
428			x	0	x	x	0	0						
429			x	0	x	x	0	0						
430			x	0	x	x	0	0	28	28	1	0	27	0
431									18	18	0	0	18	0
432	Sims North, Wayne	1942	190	0	75,000	75,000	0	0	7	7	1	0	6	0

³³ Barnhill East wells formerly part of Goldegate Pool.³⁴ Abandoned 1942.³⁵ Abandoned 1941, revived 1942.³⁶ Abandoned 1939, revived August 1940.

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.		Character of Oil	Producing Formation							Deepest Zone Tested to End of 1942			
	Number of Wells		Initial	Avg. at End of 1942		Repressuring Operations ²	Name	Age ^c	Character/ ^o	Porosity ^o	Depth, Avg. Ft.		Structure ^a	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift									Top Prod. Zone	Bottoms Prod. Wells				Net Thickness, Avg. Ft.
372	0	59														
373	0	56	x	x	37.6	0.17	McClosky	MisL	L	Por	3,385	3,411	11	A	MisL	3,855
374	0	1	x	x	x	x	Salem	MisL	L	Por	3,792	3,855	y			
375	0	2	x	x	x	x	²⁷									
376																
377	0	1	x	x	x	x	Aux Vases	MisU	S	Por	3,238	3,350	12	D	MisL	3,532
378	0	1	x	x	x	x	Rosiclare	MisL	S	Por	3,318	3,345	5			
379	0	2	x	x	34.4	0.18	McClosky	MisL	L	Por	3,377	3,399	7			
380	0	111														
381	0	1	x	x	x	x	Levias	MisL	L	Por	3,214	3,235	11	A	MisL	3494
382	0	1	x	x	40.2	0.14	Rosiclare	MisL	S	Por	3,250	3,260	4			
383	0	106	x	x	40.2	0.14	McClosky	MisL	L	Por	3,260	3,280	14			
384	0	3					²⁷									
385	0	46														
386	0	2	x	x	38.5	x	Aux Vases	MisU	S	Por	2,982	3,029	13	A	St. Peter	7,207
387	0	1	x	x	x	x	Rosiclare	MisL	S	Por	3,010	3,160	4			
388	0	43	x	x	35.8	0.24	McClosky	MisL	L	Por	3,121	3,178	15			
389	0	1	x	x	39.0	x	McClosky	MisL	L	Por	3,170	3,185	10	A	MisL	3,237
390	0	13												A	MisL	3,180
391	0	11	x	x	37.1	0.20	Aux Vases	MisU	S	Por	2,860	2,876	16			
392	0	2	x	x	37.5	x	McClosky	MisL	L	Por	2,971	2,974	3			
393	0	32												D	MisL	3,324
394	0	1	x	x	x	x	Aux Vases	MisU	S	Por	3,115	3,133	18			
395	0	4	x	x	40.0	x	Levias	MisL	L	Por	3,209	3,220	5			
396	0	25	x	x	40.0	x	McClosky	MisL	L	Por	3,238	3,246	8			
397	0	2					²⁷									
398	0	1	x	x	x	x	Aux Vases	MisU	S	Por	3,236	3,255	14	A	MisL	3,389
399	0	15												D	MisL	3,319
400	0	12	x	x												
401	0	3	x	x	29.4	x	Aux Vases	MisU	S	Por	3,065	3,080	14			
402	0	3	x	x	x	x	McClosky	MisL	L	Por	3,135	3,180	3			
403	0	3	x	x	x	x	Aux Vases	MisU	S	Por	3,129	3,150	12	D	MisL	3,320
404	0	1	x	x	x	x	Rosiclare	MisL	S	Por	3,318	3,345	5	D	Dev	5,645
405	0	0	x	x	34.4	0.18	McClosky	MisL	L	Por	3,377	3,399	7			
406	0	247												A	MisL	3,389
407	0	33	x	x	39.4	0.41	Aux Vases	MisU	S	Por	2,980	3,040	12			
408	0	1	x	x	x	x	Levias ²⁸	MisL	L	Por	3,040	3,070	10			
409	0	207	x	x	39.4	0.16	McClosky	MisL	L	Por	3,070	3,150	15			
410	0	7					²⁷									
411	0	2												A	MisL	3,237
412	0	1	x	x	39.0	x	Aux Vases	MisU	S	Por	3,032	3,052	20			
413	0	1	x	x	x	x	McClosky	MisL	L	Por	3,212	3,215	3			
414	0	0	x	x	x	x	McClosky	MisL	L	Por	3,107	3,115	6	A	MisL	3,185
415	0	14	x	x	39.0	0.19	McClosky	MisL	L	Por	3,413	3,453	11	D	MisL	3,485
416	0	11												D	MisL	3,215
417	0	3	x	x	39.2	0.11	Aux Vases	MisU	S	Por	2,973	2,990	17			
418	0	1	x	x	x	x	Rosiclare	MisL	S	Por	3,068	3,075	7			
419	0	6	x	x	39.8	0.18	McClosky	MisL	L	Por	3,080	3,092	y			
420	0	1					²⁷									
421	0	1												D	MisL	3,380
422	0	1	x	x	x	x	Rosiclare	MisL	S	Por	3,255	3,264	9			
423	0	0	x	x	31.7	x	McClosky	MisL	L	Por	3,265	3,279	11			
424	0	6	x	x	38.0	0.16	McClosky	MisL	L	Por	3,340	3,380	7	D	MisL	3,380
425	0	0	x	x	38.5	x	McClosky	MisL	L	Por	3,144	3,154	5	D	MisL	3,154
426	0	55												A	MisL	3,306
427	0	10	x	x	40.4	0.20	Aux Vases	MisU	S	Por	3,030	3,045	15			
428			x	x	39.1	x	Levias ²⁸	MisL	L	Por	3,112	3,117	5			
429			x	x	x	x	Rosiclare ²⁸	MisL	S	Por	3,130	3,145	8			
430	0	27	x	x	39.1	x	McClosky	MisL	L	Por	3,170	3,220	8			
431	0	18					²⁷									
432	0	6												A	MisL	3,209

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^c
433			x	0	x	x	0	0	1	1	0	0	1	0
434			x	0	x	x	0	0	3	3	1	0	2	0
435			x	0	x	x	0	0	2	2	0	0	2	0
436									1	1	0	0	1	0
437	Aden, Wayne, Hamilton...	1938	370	0	530,000	141,000	0	0	10	1	1	0	9	0
438			x	0	x	x	0	0						
439			x	0	x	x	0	0	9	0	1	0	8	0
440									1	1	0	0	1	0
441	Burnt Prairie, White.....	1940	270	0	327,000	73,000	0	0	20	0	0	0	20	0
442			x	0	x	x	0	0	2	2	0	0	2	0
443			x	0	x	x	0	0	18	0	0	0	18	0
444	Carmi, White.....	1940	30	0	4,000	2,000	0	0	2	1	1	0	1	0
445			x	0	x	x	0	0	1	1	0	0	1	0
446			x	0	x	x	0	0	1	0	1	0	1	0
447	Carmi North, White.....	1942	50	0	21,000	21,000	0	0	3	3	0	0	3	0
448	Centerville, White.....	1940	60	0	156,000	41,000	0	0	5	0	0	0	5	0
449	Centerville East, White....	1941	500	0	503,000	485,000	0	0	36	30	1	0	35	0
450			x	0	x	x	0	0	20	16	1	0	19	0
451			x	0	x	x	0	0	1	0	0	0	1	0
452			x	0	x	x	0	0	1	1	0	0	1	0
453			x	0	x	x	0	0	4	4	0	0	4	0
454			x	0	x	x	0	0						
455			x	0	x	x	0	0	9	8	0	0	9	0
456									1	1	0	0	1	0
457	Concord, White.....	1942	10	0	8,000	8,000	0	0	1	1	0	0	1	0
458	Epworth, White.....	1941	100	0	100,000	86,000	0	0	10	6	1	0	9	0
459			x	0	x	x	0	0	2	1	0	0	2	0
460			x	0	x	x	0	0	7	5	1	0	6	0
461			x	0	x	x	0	0	1	0	0	0	1	0
462	Grayville West, White....	1941	30	0	23,000	14,000	0	0	3	0	1	0	2	0
463			10	0	x	x	0	0	1	0	0	0	1	0
464			20	0	x	x	0	0	2	0	1	0	1	0
465	Herald, White.....	1940	80	0	49,000	26,000	0	0	8	3	3	0	5	0
466			x	0	x	x	0	0	2	0	0	0	2	0
467			x	0	x	x	0	0	3	0	1	0	2	0
468			x	0	x	x	0	0	1	1	0	0	1	0
469			x	0	x	x	0	0	2	2	0	0	0	0
470	Iron, White.....	1940	770	0	2,390,000	472,000	0	0	64	1	3	0	61	0
471			x	0	x	x	0	0	5	0	1	0	4	0
472			x	0	x	x	0	0	33	0	1	0	32	0
473			x	0	x	x	0	0	2	0	0	0	2	0
474			x	0	x	x	0	0	1	1	0	0	1	0
475			x	0	x	x	0	0	20	0	1	0	19	0
476									3	0	0	0	3	0
477	Maunie, White.....	1941	20	0	13,000	9,000	0	0	2	0	0	0	2	0
478	Maunie North, White.....	1941	40	0	20,000	14,000	0	0	5	2	0	1	4	0
479			x	0	x	x	0	0	1	0	0	0	1	0
480			x	0	x	x	0	0	4	2	0	1	3	0
481	Maunie South, White.....	1939	670	0	982,000	608,000	0	0	69	17	2	0	67	0
482			x	0	x	x	0	0	5	1	0	0	5	0
483			x	0	x	x	0	0	34	4	2	0	32	0
484			x	0	x	x	0	0	1	0	0	0	1	0
485			x	0	x	x	0	0	17	9	0	0	17	0
486			x	0	x	x	0	0	1	0	0	0	1	0
487			x	0	x	x	0	0	6	1	0	0	6	0
488			x	0	x	x	0	0	1	1	0	0	1	0
489			x	0	x	x	0	0	1	0	0	0	1	0
490									3	1	0	0	3	0
491	New Harmony Consolidated, White	1939	6,760	0	18,957,000	7,251,000	0	0	710	61	5	0	704	0
492			x	0	x	x	0	0	7	6	0	0	7	0

TABLE I.—(Continued)

Line Number	Oil-production Methods, End of 1942		Reservoir Pressure, ⁴ Lb. per Sq. In.	Character of Oil	Producing Formation							Deepest Zone Tested to End of 1942					
	Number of Wells	Flowing			Artificial Lift	Initial	Avg. at End of 1942	Repressuring Operations ^d	Name	Age ^e	Character/ ^f	Porosity ^g	Depth, Avg. Ft.		Name	Depth of Hole, Ft.	
													Top Prod. Zone	Bottoms Prod. Wells			Net Thickness, Avg. Ft.
					Gravity A.P.I. at 60° F., Weighted Average ³	Sulphur Per Cent											
433	0	1	z	z	z	z	Aux Vases	MisU	z	Por	3,131	3,141	10				
434	0	2	z	z	z	z	Rosciclare	MisL	z	Por	3,150	3,160	8				
435	0	2	z	z	z	37.5	0.19	McClosky	MisL	L	Por	3,183	3,190	4			
436	0	1															
437	0	9															
438			z	z	z	z	Aux Vases ²⁸	MisU	S	Por	3,177	3,192	15	A	MisL	3,460	
439	0	8	z	z	z	40.0	z	McClosky	MisL	L	Por	3,287	3,337	7			
440	0	1															
441	0	20												D	MisL	3,432	
442	0	2	z	z	z	z	Rosciclare	MisL	S	Por	3,260	3,404	9				
443	0	18	z	z	z	37.0	0.28	McClosky	MisL	L	Por	3,425	3,436	11			
444	0	1												D	MisL	3,236	
445	0	1	z	z	z	z	Levias	MisL	L	Por	3,130	3,140	8				
446	0	0	z	z	z	z	McClosky	MisL	L	Por	3,148	3,167	4				
447	0	3	z	z	z	37.0	0.14	Aux Vases	MisU	S	Por	3,228	3,250	14	D	MisU	3,250
448	0	5	z	z	z	36.8	0.17	McClosky	MisL	L	Por	3,355	3,373	4	D	MisL	3,373
449	0	35												D	MisL	3,366	
450	0	19	z	z	z	37.2	0.20	Tar Springs	MisU	S	Por	2,530	2,545	15			
451	0	1	z	z	z	z	Cypress	MisU	S	Por	2,915	2,925	10				
452	0	1	z	z	z	z	Bethel	MisU	S	Por	2,960	2,974	14				
453	0	4	z	z	z	z	Aux Vases	MisU	S	Por	3,083	3,094	11				
454	0	z	z	z	z	z	Levias ²⁸	MisL	L	Por	3,177	3,182	5				
455	0	9	z	z	z	40.0	z	McClosky	MisL	L	Por	3,264	3,276	12			
456	0	1															
457	0	1	z	z	z	z	Aux Vases	MisU	S	Por	2,904	2,914	10	A	MisU	3,080	
458	0	9												D	MisL	3,195	
459	0	2	z	z	z	z	Degonia	MisU	S	Por	2,092	2,108	6				
460	0	6	z	z	z	36.2	z	Clore	MisU	S	Por	2,072	2,109	18			
461	0	1	z	z	z	z	Palestine	MisU	S	Por	2,099	2,188	14				
462	0	2												D	MisL	3,273	
463	0	1	z	z	z	37.0	z	Cypress	MisU	S	Por	2,870	2,890	20			
464	0	1	z	z	z	z	McClosky	MisL	L	Por	3,172	3,273	8				
465	0	5												A	MisL	3,173	
466	0	2	z	z	z	28.0	z	Pennsylvanian	Pen	S	Por	1,565	1,571	6			
467	0	2	z	z	z	37.2	0.24	Tar Springs	MisU	S	Por	2,259	2,276	18			
468	0	1	z	z	z	z	Cypress	MisU	S	Por	2,654	2,664	10				
469	0	0	z	z	z	z	Bethel	MisU	S	Por	2,792	2,800	8				
470	0	61												A	MisL	3,142	
471	0	4	z	z	z	36.4	z	Tar Springs	MisU	S	Por	2,425	2,440	6			
472	0	32	z	z	z	38.4	0.30	Hardinsburg	MisU	S	Por	2,537	2,556	18			
473	0	2	z	z	z	38.0	z	Cypress	MisU	S	Por	2,708	2,753	24			
474	0	1	z	z	z	z	Bethel	MisU	S	Por	2,792	2,800	8				
475	0	19	z	z	z	39.0	0.20	McClosky	MisL	L	Por	3,061	3,142	10			
476	0	3															
477	0	2	z	z	z	38.0	z	Palestine	MisU	S	Por	2,012	2,018	6	D	MisL	3,049
478	0	4												D	MisL	3,107	
479	0	1	z	z	z	36.5	z	Bethel	MisU	S	Por	2,826	2,847	21			
480	0	3	z	z	z	z	McClosky	MisL	L	Por	3,075	3,092	6				
481	0	67												A	MisL	3,028	
482	0	5	z	z	z	37.0	z	Pennsylvanian	Pen	S	Por	1,455	1,480	25			
483	0	32	z	z	z	33.8	0.28	Palestine	MisU	S	Por	2,020	2,038	18			
484	0	1	z	z	z	z	Waltersburg	MisU	S	Por	2,208	2,217	9				
485	0	17	z	z	z	38.0	z	Tar Springs	MisU	S	Por	2,254	2,268	14			
486	0	1	z	z	z	39.0	z	Cypress	MisU	S	Por	2,561	2,569	8			
487	0	6	z	z	z	z	Aux Vases	MisU	S	Por	2,844	2,866	22				
488	0	1	z	z	z	z	Levias	MisL	L	Por	2,865	2,880	3				
489	0	1	z	z	z	z	McClosky	MisL	L	Por	2,871	2,873	2				
490	0	3															
491	0					PM								A	MisL	3,219	
492	0	7	z	z	z	z	Biehl	Pen	S	Por	1,830	1,870	40				

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1942	During 1942	To End of 1942	During 1942	Completed to End of 1942	During 1942		End of 1942		
										Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^c
493			x	0	x	x	0	0	19	3	1	0	18	0
494			x	0	x	x	0	0	27	5	0	0	27	0
495			x	0	x	x	0	0	86	6	0	0	86	0
496			x	0	x	x	0	0	11	0	0	0	11	0
497			x	0	x	x	0	0	125	8	0	0	124	0
498			x	0	x	x	0	0	165	20	3	0	162	0
499			x	0	x	x	0	0	2	0	0	0	2	0
500			x	0	x	x	0	0	98	4	0	0	98	0
501			x	0	x	x	0	0	170	9	1	0	169	0
502	New Harmony South, White	1941	60	0	35,000	11,000	0	0	4	0	2	0	2	0
503			x	0	x	x	0	0	1	0	0	0	1	0
504			x	0	x	x	0	0	1	0	1	0	0	0
505			x	0	x	x	0	0	1	0	0	0	1	0
506			x	0	x	x	0	0	1	0	1	0	0	0
507	New Haven, White.....	1941	210	0	299,000	127,000	0	0	21	2	0	0	21	0
508			x	0	x	x	0	0	4	0	0	0	4	0
509			x	0	x	x	0	0	1	0	0	0	1	0
510			x	0	x	x	0	0	7	1	0	0	7	0
511			x	0	x	x	0	0	4	1	0	0	4	0
512			x	0	x	x	0	0	1	0	0	0	1	0
513			x	0	x	x	0	0	4	0	0	0	4	0
514	Phillipstown, White.....	1939	490	0	330,000	205,000	0	0	39	28	0	0	39	0
515			x	0	x	x	0	0	2	1	0	0	2	0
516			x	0	x	x	0	0	2	2	0	0	2	0
517			x	0	x	x	0	0	2	2	0	0	2	0
518			x	0	x	x	0	0	23	22	0	0	23	0
519			x	0	x	x	0	0	2	0	0	0	2	0
520			x	0	x	x	0	0	3	0	0	0	3	0
521			x	0	x	x	0	0	4	0	0	0	4	0
522			x	0	x	x	0	0	1	1	0	0	1	0
523	Stokes, White.....	1939	640	0	670,000	414,000	0	0	28	12	0	0	27	0
524			x	0	x	x	0	0	7	4	0	0	7	0
525			x	0	x	x	0	0	7	6	0	0	7	0
526			x	0	x	x	0	0	1	1	0	0	1	0
527			x	0	x	x	0	0	12	0	0	0	11	0
528			x	0	x	x	0	0	1	1	0	0	1	0
529			x	0	x	x	0	0	156	1	4	0	152	0
530	Storms, White.....	1939	1,510	0	3,676,000	729,000	0	0	152	1	4	0	148	0
531			x	0	x	x	0	0	1	0	0	0	1	0
532			x	0	x	x	0	0	3	0	0	0	3	0
533			x	0	x	x	0	0	68	25	4	0	64	0
534	Roland, White, Gallatin.....	1940	1,820	0	2,983,000	1,887,000	0	0	141	49	6	0	135	0
535			x	0	x	x	0	0	4	1	0	0	4	0
536			x	0	x	x	0	0	5	1	1	0	4	0
537			x	0	x	x	0	0	15	8	1	0	14	0
538			x	0	x	x	0	0	17	6	0	0	17	0
539			x	0	x	x	0	0	1	1	0	0	1	0
540			x	0	x	x	0	0	31	7	0	0	31	0
541			x	0	x	x	0	0	109	16	0	0	109	0
542	Mill Shoals, White, Hamilton	1939	1,090	0	2,564,000	906,000	0	0	87	14	0	0	87	0
543			x	0	x	x	0	0	19	2	0	0	19	0
544			x	0	x	x	0	0	3	0	0	0	3	0
545			x	0	x	x	0	0	3	0	0	0	3	0
546			x	0	x	x	0	0	3	0	0	0	3	0
547	Total fields after Jan. 1, 1937 ²⁷		119,730	1,700	487,362,000	101,837,000	4,291	1,472	12,032 ²⁸	1,133 ²⁸	173	94	11,404	56
548	Total for Illinois ²⁷		218,750	17,535	939,648,000	106,590,000	6,692	1,485	32,794 ²⁸	1,179 ²⁸	358	324	24,275	64

²⁷ Total from U. S. Bureau of Mines monthly reports. Includes oil marketed in addition to that shown above.
²⁸ Includes six small capped gas wells not shown above.

TABLE 2.—Discovery Wells in Illinois in 1942

Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbl. ^a	Date of Completion or Discovery of Well	Number of Wells Producing in Field Jan. 5, 1943
1	Akin.....	Seaboard Oil, U. S. Coal & Coke Co. No. 1	C SW SE 14-6S-4E	2,860	2,839	Cypress ss.	113 + 85	3-24-42	3
2	Albion North.....	Taylor Drilling, Odle No. 1	S SE SW 30-1S-11E	3,261	3,054	Aux Vases ss.	19	3-31-42	1
3	Amity.....	Boles Bros., W. C. Petty No. 1	NE SE NE 10-4S-14W	2,997	2,961	McClosky ls.	80 + 54	9-29-42	4
4	Barnhill East ^b	New Penn Dev. Corp., J. L. Wagner No. 1	NW SW NE 30-5S-9E	3,441	3,432	McClosky ls.	20	3-7-39	1
5	Bartlesville South.....	J. F. Ashoff, Jr., Huelmann No. 1	SE NE NE 20-1N-3W	2,478	2,463	Devonian ls.	100	12-8-42	1
6	Beauregard Creek.....	W. C. McBride, Inc., V. Jacobs No. 1	SE SW NW 31-4N-2W	2,526	1,116	Bethel ss.	24 + 28	6-23-42	1
7	Bible Grove.....	Cameron Bros., Landwehr No. 1	NW NW NE 4-5N-7E	2,825	2,810	McClosky ls.	695	3-24-42	32
8	Bible Grove South.....	Kingwood et al., J. E. Essen No. 1	NW NW SE 20-5N-7E	2,929	2,733	Aux Vases ss.	64 + 6	9-1-42	1
9	Blairsville.....	The Texas, S. Minton No. 1	E SE NE 20-4S-7E	3,531	3,294	Aux Vases ss.	123	3-25-42	10
10	Carmi North.....	Seaboard Oil, Gates No. 1	SW NW SW 35-5S-9E	3,240	3,228	Aux Vases ss.	62 + 38	3-24-42	3
11	Casne North.....	Shell Oil, Rauter No. 1	E NE NE 17-1N-7E	3,237	3,170	McClosky ls.	35 + 33	9-1-42	1
12	Coal.....	First Nat. Petr. Trust, Ellis No. 1	CW NE SE 18-1S-5E	2,940	2,918	McClosky ls.	450 + 25	3-31-42	13
13	Coal West.....	Gulf Refining, Bradford No. 1	NW SE SW 14-1S-4E	2,981	2,918	Aux Vases ss.	15 + 30	10-13-42	1
14	Concord.....	N. S. W. Co., White	NW NE SW 30-1S-2W	3,290	2,904	Aux Vases ss.	28 + 4	3-17-42	1
15	Covington.....	Deep Rock Oil, Blackburn No. 1	NW NE NE 13-3S-2W	1,685	1,346	McClosky ls.	871	6-30-42	32
16	Dubuon West.....	Gulf Refining, Lefner No. 1	NW NE NE 35-5N-10E	3,011	2,999	McClosky ls.	212	7-14-42	11
17	Dundas East.....	Helmreich & Payne, Stiff Hens No. 1	SE NE NE 7-2S-10E	3,496	3,418	McClosky ls.	35 + 70	11-10-42	1
18	Elery North.....	Stammond Oil & Gas, Broster No. 1	SE NE SE 17-2S-10E	3,389	3,236	Aux Vases ss.	16 + 77	9-29-42	1
19	Fairfield.....	Robinson & Continental, Osborn No. 1	C W NE SW 17-2S-8E	2,477	2,464	Bethel ss.	35	9-22-42	6
20	Friendsville.....	Skites et al., Wheatly No. 1	E NE SE 3-4S-13W	2,344	2,344	Bethel ss.	100	9-15-42	2
21	Gift West.....	V. A. Thompson, Whitlock No. 1	NW NW SW 9-1S-7E	3,520	3,129	Aux Vases ss.	5 + 28	6-23-42	0
22	Ingram ^c	Nat. Petroleum, Rintschner No. 1	SE SE SE 10-4S-8E	3,139	3,098	McClosky ls.	17 + 65	5-19-42	5
23	Inman West.....	R. Martin, Bath No. 1	SE SE NE 13-4S-6E	2,452	2,432	Cypress ss.	75	2-10-42	2
24	Johnsonville South.....	B. B. Duncan, Anderson, Rogers No. 1	SW NE SE 15-4S-6E	3,429	3,402	McClosky ls.	102	3-20-42	0
25	Johnsonville West ^b	Bell Bros., Jones No. 1	W NE SE 24-1N-5E	3,113	3,072	McClosky ls.	182	4-21-42	1
26	Kell.....	L. & W. Drilling, Rogers, Howard No. 1	NE NE NW 5-1S-3E	2,923	2,693	Bethel ss.	95 + 20	5-26-42	1
27	Kemper.....	Lewis Prod. State Gas, Thompson No. 1	NW NE SW 30-2N-6E	2,717	2,663	McClosky ls.	153 + 15	6-23-42	5
28	King.....	Lorio Oil & Gas, Starr Bros. No. 1	SW SW SE 21-3S-3E	2,762	2,740	Aux Vases ss.	190 + 90	8-4-42	12
29	Markham City.....	W. R. Holmes, Niemann No. 1	NW SW SE 29-3N-5W	3,214	3,077 + 3,122	Levias ls.; McClosky ls.	150 + 45	12-15-42	2
30	Mt. Olive.....	Krohn, Wiman No. 1	NW SE SW 19-3N-13W	1,380	1,669	Pennsylvanian ss.	55 + 75	9-10-42	2
31	New Bellair.....	Whipple, Rhoades No. 1	SW SE SW 35-9N-8W	4,251	4,000	Pennsylvanian ss.	10 + 10	1-27-42	1
32	Pianview.....	M. D. Bryant, H. Meyer No. 1	NW SE SE 16-3N-9W	2,958	2,278	"Trenton" ls.	118	6-2-42	23
33	St. Jacob.....	J. H. Jones, Neeley No. 1	SW NE NE 11-3N-7E	2,524	2,940	McClosky ls.	508	6-2-42	4
34	Sailsville South ^b	M. E. Jones, Neeley No. 2	SW SE NE 31-1N-11E	2,437	2,403	Waltersburg ss.	20 + 100	1-20-42	0
35	Samsville ^b	M. E. Jones, McDowell No. 1	E NW NE 19-6S-2E	2,716	2,701	Aux Vases ss.	132	6-2-42	6
36	Sesser.....	I. W. Taylor, Old Ben Coal No. 1	S SW SE 17-1S-6E	3,209	3,183	McClosky ls.	303	1-6-42	3
37	Sims North.....	The Texas, Talbert No. 2	S SW SE 17-1S-6E	1,150	1,127	Cypress ss.	16	3-24-42	1
38	Talmer.....	Harsh, Newborn No. 1	SW SE NW 22-4S-1W	2,887	2,790	McClosky ls.	216	9-15-42	3
39	Tolover.....	Big Chief Drilling, Barbee No. 1	SW SE SE 35-5N-6E	2,887	2,790	McClosky ls.	15 + 24	5-26-42	1
40	Valer.....	Menhall, Valer Coal No. 2	NE NE SE 7-6S-2E	2,725	2,713	McClosky ls.			

^a Wells in secs. 29 and 30, T. 2 S., R. 9 E., Wayne County, formerly included in Goldengate pool assigned name Barnhill East 11/17/42.

^b Abandoned 1942.

^c This pool was extended and is now (12/31/42) included with Sailor Springs pool.

^d Oil and water.

TABLE 3.—Extensions to Pools in Illinois in 1942

Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Completion, Bbl.	Date of Completion
1 Bible Grove.....	Clay	Illinois Producers, Veith No. 1	SE SW NE 5-5N-7E	2,837	2,808	McClosky ls.	66	6-2-42
2 Bone Gap.....	Edwards	C. F. Steele, C. Couch No. 1	SW frac. 6-1S-11E	3,261	3,254	McClosky ls.	10+75 ^b	6-9-42
3 Bonpas West.....	Richland	Bonpas Development, Woods No. 2	W SW SE 21-2N-14W	3,097	3,090	McClosky ls.	1,086	2-17-42
4 Boyleston.....	Wayne	H. H. Weibert, Syncort Commun. No. 1	E NE NE 11-2S-7E	3,330	3,318	McClosky ls.	15+200	6-23-42
5 Centerville East.....	Wayne	Pure Oil, Reynolds No. 1	C SE NW 25-1S-7E	3,494	3,346	McClosky ls.	20+6	7-7-42
6 Clay City Consolidated.....	Wayne	S. SE NW 13-4S-9E	S SE NW 13-4S-9E	3,264	3,259	McClosky ls.	90	4-7-42
7 Coal.....	Wayne	Pure Oil, Welster No. 1	C SW NW 14-1N-3E	3,080	3,065	McClosky ls.	260	10-20-42
8 Cooks Mills.....	Coles	W. C. McBride, Youngblood-Gregory No. 1	SE SW NE 19-1S-5E	2,893	2,860	Aux Vases ss.	221	9-15-42
9 Dix.....	Marion	Brauner et al., Hatfield No. 1	C SW SE 28-1N-2E	1,872	1,806	Aux Vases ss.	220	7-21-42
10 Dundas East.....	Clasper	Helmerich & Payne et al., Stiff No. 1	SE NW SE 28-1N-2E	2,109	2,101	Rosiclare ss.	10	9-8-42
11 Flora.....	Jasper	Kingwood Oil, Gatewood No. 1	SE NW SE 23-2N-10E	3,065	2,940	Levias ls.	316+300	10-6-42
12 Friendsville.....	Wabash	W. E. Bailor, R. Liddle No. 3	W NE NE 23-3N-6E	3,074	2,983	McClosky ls.	205+9	1-5-43
13 Gelf.....	Wayne	Deep Rock Oil, St. Louis Bank No. 1	N NW SW 36-1N-13W	1,771	1,759	Biebl ss.	50+20	12-22-42
14 Goldengate.....	Wayne	Pure Oil, G. W. Pike No. 1	C NW NE 13-1S-7E	3,212	3,182	McClosky ls.	237	7-28-42
15 Herald.....	White	New Penn Development, Harris No. 1	C NW NW 35-6S-9E	3,311	3,305	Aux Vases ss.	201	4-14-42
16 Herald East.....	White	Carter Oil, E. A. Martin No. 1	C NW NW 35-6S-9E	2,798	2,792	Rosiclare ss.	77+58	3-10-42
17 Inman North.....	Gallatin	Sinclear-Wyoming Oil, E. O. Porter No. 1	SW NW NE 17-7S-9E	3,173	2,841	Bethel ss.	25+30	11-10-42
18 Inman East.....	White	Cherry & Kidd, Kerwin No. 1	SE NE SW 11-5S-10E	1,851	1,840	Palatine ss.	180+54	9-29-42
19 Inman North.....	Gallatin	Aetna Oil, Foster No. 1	SE SE NE 10-5S-9E	3,060	2,816	Aux Vases ss.	12+2	8-25-42
20 Iowa.....	Clay	H. Luttrell, Reed Heirs No. 1	SE NW NE 15-5N-5E	2,306	2,292	Bethel ss.	82	11-24-42
21 Johnsonville South.....	Wayne	Shell Oil, Montgomery No. 1	C NW SW 14-1S-9E	3,237	2,292	Bethel ss.	19+8	8-25-42
22 King.....	Jefferson	Oil Carriers, Inc., Mace No. 1	C NE SE 33-3S-3E	2,848	2,848	Aux Vases ss.	19+82	11-24-42
23 Lancaster.....	Wabash	Nash Redwine, Willmore et al. No. 1	SW NW SW 27-3S-8E	2,812	2,717	McClosky ls.	103	9-15-42
24 Lawrence South.....	Lawrence	Hayes Drilling, Nelker Heirs No. 1	S NW NW 9-1N-13W	2,765	2,740	Bethel ss.	40+200	8-18-42
25 Mason South.....	Effingham	Ohio Oil, Lingle No. 1	SE SW SE 36-2S-4E	3,087	3,094	Bethel ss.	126	5-5-42
26 Markham City.....	Wayne	W. R. White, Hershey No. 1	SE SW SE 36-2S-4E	2,023	2,014	Bethel ss.	84+74	7-14-42
27 Mason South.....	Wayne	Luttrell, See No. 1	NW NW NE 34-0N-5E	2,309	2,296	McClosky ls.	23+13	2-10-42
28 Maunie North.....	White	Dawson et al., Clark No. 1	NE NW NE 36-5S-10E	3,094	3,048	McClosky ls.	90	6-16-42
29 Maunie South.....	Wayne	Magnolia Petroleum, Pearce Trust No. 1	NE NW SW 35-6S-10E	3,028	2,878	Levias ls.	40	11-17-42
30 Mc. Berry.....	Wayne	Pure Oil, Marvel No. 1	C SE NW 26-1N-3E	3,379	3,373	McClosky ls.	92	7-7-42
31 Mt. Erie.....	Wayne	Pure Oil, Allen No. 1	C SE SE 11-1S-3E	3,215	3,068	Aux Vases ss.	9+22	9-28-42
32 Mt. Erie South.....	Wayne	B. H. Wemert, Crews No. 1 ^a	S SE SE 25-1S-3E	3,380	3,355	Rosiclare ss.	20+20	7-5-42
33 Noble.....	Richland	Pure Oil, W. G. Murvin, "B" No. 1	SW NW NW 27-4N-9E	2,710	2,697	Cypress ss.	165	4-14-42
34 Noble.....	Richland	Pure Oil, Berger Cons. No. 1	SW SE SW 26-4N-9E	2,588	2,547	Weller ss.	41+7	12-15-42
35 Roland.....	White	Sinclear-Wyoming Oil, Cobbel No. 1	SW SW SW 36-6S-5E	3,158	2,836;	Bethel ss.; Aux Vases ss.;	159	7-7-42
36 Roland.....	White	D. Ring, Craddock No. 1	NE SE NW 22-6S-5E	3,225	3,189	McClosky ls.	180+14	1-6-42
37 Rural Hill.....	Hamilton	D. Ring, Lopez No. 1	C NW SE 21-6S-9E	3,257	3,170	Aux Vases ss.	11+43	3-31-42
38 Rural Hill.....	Hamilton	Ohio Oil, M. C. Moore No. 1	NE SE NW 25-6S-9E	3,315	3,286	Aux Vases ss.	146+6	7-23-42
39 St. Jacob.....	Madison	W. C. Brudman, W. F.	SW NW SE 27-3N-7E	3,337	2,269	Trenton ^a ls.	147	9-1-42
40 Sailor Springs.....	Clay	W. C. Brudman, W. F.	SW NW SE 27-3N-7E	3,603	2,582	Weller ss.	71+4	10-13-42
41 Salem.....	Marion	Big Chief Drilling, A. Boles No. 1	W NW NW 15-1N-2E	2,069	2,061	Rosiclare ss.	48	5-5-42
42 Sesser.....	Franklin	J. W. Menhall, Old Ben Coal No. 1	NW NE NW 26-1S-2E	2,742	2,700	Aux Vases ss.	50	6-9-42
43 Sesser.....	Franklin	J. Donnell, Old Ben Coal No. 1	SE SE NW 26-1S-2E	2,716	2,705	Aux Vases ss.	39+11	6-16-42
44 Walpole.....	Franklin	Nash Redwine, L. Terry No. 1	E SE NW 35-6S-9E	3,148	3,134	Aux Vases ss.	311	10-13-42
45 Walpole.....	Franklin	E. S. Adkins, Orient "B" No. 1	SE SE SW 19-7S-9E	2,945	2,899	Aux Vases ss.	15	8-23-42
46 West Frankfort.....	Franklin	E. S. Adkins, Orient "B" No. 1	SE SE SW 19-7S-9E	2,945	2,899	Aux Vases ss.	15	8-23-42
47 West Frankfort.....	Franklin	E. S. Adkins, Peabody Coal No. 1	SW NW SW 18-7S-3E	2,655	2,637	Tar Springs ss.	108	12-8-42

^a Included (11-16-42) with Allendale.
^b Oil + water.

TABLE 4.—Discovery Wells of Additional Producing Zones in Pools in Illinois in 1942

	Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbl.	Date of Completion
1	Aden.....	Wayne	The Texas, H. Silverman No. 5	16-3S-7E	3,340	3,331	McClosky ls.	141	10-20-42
2	Alma.....	Marion	The Texas, J. Mazanek No. 1	36-4N-2E	1,939	1,930	Bethel ss.	15 + 3 ^b	1-20-42
3	Benton North...	Franklin	A. W. Torbett, Isaacs No. 1-A	1-6S-2E	2,626	2,600	Paint Creek ss.	30 + 25	3-24-42
4	Bible Grove.....	Clay	The Texas, W. Landwehr No. 1	8-5N-7E	2,501	2,490	Cypress ss.	132	4-28-42
5	Blairsville.....	Hamilton	The Texas, Minton No. 5	20-4S-7E	3,458	3,440	McClosky ls.	2,128	1-5-43
6	Boos North.....	Jasper	Pure, Swick Cons. "A" No. 1	20-6N-10E	2,858	2,807	Rosiclare ss.	748	11-3-42
7	Boulder.....	Clinton	E. F. Jones, Harrison No. 2	2-2N-2W	2,670	2,584	Devonian ls.	341 + 38	10-6-42
8	Boyleston.....	Wayne	Gulf Ref., P. Carter No. 1	2-2S-7E	3,236	3,214	Levias ls.	19 + 1	12-1-42
9	Centerville E....	White	Sun Oil, G. Spencer No. 1	8-4S-10E	2,976	2,960	Bethel ss.	64	6-16-42
10	Coil.....	Wayne	W. C. McBride, S. Gregory No. 1	30-1S-5E	3,056	2,971	McClosky ls.	4 + 11	12-1-42
11	Covington.....	Wayne	Gulf Ref., Blackburn-Thomas No. 3	19-1S-7E	3,240	3,219	Rosiclare ss.	151	8-25-42
12	Covington.....	Wayne	Kewanee O. & G. Co., Beck et al. No. 1	29-1S-7E	3,225	3,209	Levias ls.	139	7-21-42
13	Covington.....	Wayne	Pure, L. C. Finley No. 1	25-1S-6E	3,153	3,115	Aux Vases ss.	10 + 16	9-1-42
14	Dale-Hoodville..	Hamilton	Magnolia Petr., Betts et al. No. 1	11-6S-6E	3,163	3,150	Levias ls.	32 + 6	4-21-42
15	Friendsville.....	Wabash	Skiles, Smalley No. 2	3-1S-13W	2,325	2,289	Cypress ss.	176	11-17-42
16	Geff.....	Wayne	Pure Oil, G. W. Pike No. 1	13-1S-7E	3,147	3,065	Aux Vases ss.	237	7-28-42
17	Grayville.....	White	Skelly Oil, S. Fearn No. 1	19-3S-14W	1,842	1,836	Biehl ss.	12 + 30	5-26-42
18	Inman East.....	Gallatin	Cherry & Kidd, Kerwin No. 1	11-8S-10E	1,851	1,840	Palestine ss.	180 + 54	9-29-42
19	Inman East.....	Gallatin	Cherry & Kidd, Kerwin No. 5	11-8S-10E	2,057	1,725	Clore ss.	177 + 15	11-3-42
20	Inman East.....	Gallatin	Skelly Oil, Egyptian T. & T. No. 1	21-8S-10E	2,002	1,980	Waltersburg ss.	210 + 36	6-23-42
21	Iola.....	Clay	H. Luttrell, Reed Heirs No. 1	15-5N-5E	2,306	2,292	Bethel ss.	82	11-24-42
22	Irvington.....	Washington	Gulf, Brink No. 4	14-1S-1W	1,389	1,386	Weiler ss.	14	1-5-43
23	King.....	Jefferson	Oil Carriers Inc., Mace No. 1	33-3S-3E	2,848	2,771	Levias ls.	103	9-15-42
24	King.....	Jefferson	Oil Carriers Inc., Mace No. 1	33-3S-3E	2,848	2,823	McClosky ls.		
25	Lawrence South ^a	Lawrence	W. R. White, A. Hershey No. 1	27-2N-12W	2,023	2,014	Bethel ss.	126	5-5-42
26	Maunie.....	White	McElvain et al., Poole-Parr No. 3	13-6S-10E	2,855	2,843	Aux Vases ss.	185	7-14-42
27	Maunie.....	White	McElvain et al., Poole-Parr No. 6-C	13-6S-10E	2,203	2,190	Tar Springs ss.	192	9-8-42
28	Maunie.....	White	H. K. Riddle, E. P. Huhele No. 1	7-6S-11E	1,335	1,315	Pennsylvanian ss.	58	5-12-42
29	Maunie South...	White	B. Lambert, Sisson-Higgins No. 1	24-6S-10E	1,925	1,904	Degonia ss.	19	6-16-42
30	Mt. Erie.....	Wayne	Jablonski & Duncan, Garrison No. 1	35-1N-8E	2,988	2,973	Aux Vases ss.	180	9-8-42
31	Mt. Erie South..	Wayne	H. H. Weiner, J. Crews No. 1	28-1S-8E	3,380	3,255	Rosiclare ss.	20 + 20	7-28-42
32	Parkersburg.....	Edwards	Magnolia Petr., C. C. Brake No. 1	31-2N-14W	2,970	2,953	Paint Creek ss.	47	6-2-42
33	Parkersburg.....	Edwards	Sinclair-Wyoming, A. Bierhaus No. 1	6-1N-14W	2,870	2,832	Weiler ss.	23	7-28-42
34	Phillipstown.....	White	Jarvis Bros., K. & E. Spencer No. 1	31-4S-11E	2,034	2,019	Clore ss.	40	7-21-42
35	Phillipstown.....	White	Jarvis Bros., Spencer No. 2	31-4S-11E	2,059	2,052	Palestine ss.	30 + 70	6-23-42
36	Roaches.....	Jefferson	E. M. Self, J. German No. 1	16-2S-1E	2,200	2,160	Levias ls.	10 + 50	10-13-42
37	Roland.....	White	King wood-Sinclair, Hale "B" No. 1	1-7S-8E	3,050	2,997	McClosky ls.	203 + 10	7-28-42

^a Included (11-16-42) with Allendale pool^b Oil + water.

footage of wildcat wells drilled in 1942 was 1,367,291 ft., of which a total of 253,125 ft. was drilled in successful wells.

Subsurface geology and geophysics, largely the reflection seismograph, are still the principal methods used in exploration and development in Illinois. The number of seismograph parties operating throughout the year was as follows: 15 on Jan. 1, 1942; 11 on Apr. 1; 13 on Oct. 1; and 12 on Jan. 1, 1943.

Although the amount of seismograph work done in 1942 seems to have been as great as that in 1941, it is noteworthy that the number of well locations made on the basis of seismograph surveys decreased from 90 in 1941 to 38 in 1942, and of these 28 discovered new pools or extensions in 1941 as compared with 10 in 1942. On the other hand, the number of wildcat locations and successful wildcats found by the use of only geology increased in 1942 as compared with 1941.

DEEP TESTS DURING 1942 (TABLE 7)

Five St. Peter sandstone tests were drilled during 1942 but none was found to be productive. Thirty-one "Trenton" tests were drilled in the state. One of these opened the Madison County St. Jacob pool, which produced 261,000 bbl. of oil from 23 wells by the end of the year. Of

the 18 Devonian tests drilled one was productive—discovering the Devonian oil pay in the Boulder gas field.

DEVELOPMENT

Most of the new discoveries and development during 1942 took place in White, Wayne, Hamilton, Clay, and Jasper Counties in the southeastern part of the state. In White County 302 wells were drilled, of which 213 were producing wells (Table 8). Field development during the year was principally in the Rural Hill (White County), New Harmony Consolidated (White County), Sims (Wayne County), and Roland (White County) fields.

PROSPECTS FOR 1943

It is anticipated that fewer wells will be drilled in 1943 than in 1942, but reduction probably will be in pool wells rather than in "wildcat" drilling. The abundance of geologic data available from the many wells previously drilled, the large areas yet untested to the deeper formations, and the need for more oil, are factors that should stimulate "wildcat" drilling.

ECONOMIC DATA

On the basis of posted prices, the total value of the oil produced in 1942 was

TABLE 4.—(Continued)

	Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbl.	Date of Completion
38	Rural Hill.....	Hamilton	Gulf, B. W. Johnson No. 1	17-6S-7E	2,755	2,707	Cypress ss.	30	10-27-42
39	Sailor Springs S. e	Clay	W. C. McBride, Harrison et al. No. 1	3-3N-7E	2,608	2,597	Weiler ss.	34 + 9	9-15-42
40	Salem.....	Marion	Big Chief Drilling, H. Boles No. 1	15-1N-2E	2,085	2,061	Rosiclare ss.	48	5-5-42
41	Sims.....	Wayne	The Texas, H. O. Fuhrer No. 2	28-1S-6E	3,185	3,070	Levias ls.	30	1-20-42
42	Sims North.....	Wayne	Pure Oil, W. L. Reed No. 1	17-1S-6E	3,178	3,150	Rosiclare ss.	243	3-17-42
43	Stokes.....	White	Pure, Pyle Cons. No. 2	18-6S-9E	2,915	2,890	Aux Vases ss.	152	12-8-42
44	Walpole.....	Hamilton	The Texas, R. Hall No. 3	27-6S-6E	2,472	2,464	Tar Springs ss.	94 + 4	5-26-42
45	Woodlawn.....	Jefferson	J. B. Jackson, T. Myers No. 4	34-2S-1E	1,829	1,815	Weiler ss.	10 + 3	9-1-42

* Included (12-31-42) with Sailor Springs pool.

TABLE 5.—*Completions and Production in Illinois since January 1, 1936*

	Number of Completions ^a	Number of Producing Wells	Production, Thousands of Barrels		
			New Fields ^b	Old Fields ^{b,c}	Total ^d
1936.....	93	82			4,445
1937.....	449	292	2,884	4,542	7,426
1938.....	2,541	2,010	19,771	4,304	24,075
1939.....	3,075	2,970	99,908	4,004	94,912
1940.....	3,829	3,080	142,969	4,678	147,647
1941.....	3,838	2,925	128,993	5,145	134,138
1942:					
January.....	272	190	11,176	409	11,585
February.....	103	64	9,450	374	9,824
March.....	71	37	9,579	407	9,986
April.....	95	41	8,650	398	9,048
May.....	149	85	8,646	396	9,042
June.....	160	74	8,127	393	8,520
July.....	223	119	8,077	406	8,483
August.....	179	92	8,075	373	8,448
September.....	163	91	7,563	395	7,958
October.....	246	163	7,731	405	8,136
November.....	176	111	7,424	377	7,801
December.....	179	112	7,339	420	7,759
	2,016	1,179	101,837	4,753	106,590

^a Includes only oil or gas producers and dry holes.

^b Production figures based on information furnished by oil companies and pipe line companies.

^c Includes Devonian production at Sandoval and Bartelo.

^d From the U. S. Bureau of Mines.

approximately \$145,315,350. Posted prices for Illinois crude oil in 1942 were \$1.37 for the central basin fields, Salem area and Griffin area, and \$1.22 per barrel for oil in the old fields.

TABLE 6.—*Wildcat Wells Drilled in Illinois in 1942*

CLASSIFIED ACCORDING TO METHOD OF LOCATION

Method	Number of Wells	Number of Producers	Percentage of Wells Successful
Geology.....	360	68	19
Seismograph.....	29	5	17
Seismograph and geology.....	19	5	26
Total scientific.....	408	78	19
Nonscientific.....	90	7	8
Unknown.....	51	11	20
Total.....	549	96 ^a	17

^a Includes six small gas producers from which no gas has been marketed and two small oil wells that were not commercial but that may be "edge wells."

In 1942 a total of 5,339,504 ft. of hole was drilled in the state. Of this amount 3,194,564 ft. represents producing wells. With an assumed average cost of \$4.00

per foot, the total investment in drilling was \$21,358,016, including both producing wells and dry holes. In the 549 (1942) "wildcats," 1,367,291 ft. of hole was drilled. At \$4.00 per foot, the drilling cost of these "wildcats" amounted to \$5,469,7164. The average depth of all wells drilled in the state in 1942 was 2607 ft., as compared with 2480 ft. in 1941.

The average initial production of the oil wells for 1942 was 182 bbl. as against 278 bbl. for 1941.

PIPE LINES

Construction of pipe lines in Illinois in 1942 was limited principally to lines connecting new pools with existing trunk lines, as follows:

Crude Oil

Ashland Oil and Refining Co., Inc.—5 miles 4-in., Sims field northeast to Johnsonville (Sohio) pump station, Wayne County; 9 miles 4-in., Coil field northeast to the Johnsonville station, Wayne County.

Central Pipe Line Co.—3 miles 4-in., Bonpas field to Parkersburg field pump station,

TABLE 7.—*Important Tests in 1942*

	County	Pool or Wildcat	Location	Company and Farm	Total Depth, Ft.	Deepest Formation Tested	Top, Ft.	Remarks	Date Completed
1	Adams.....	Wildcat	26-2S-8W	Ohio Oil, G. Fingerlin No. 1	675	St. Peter	666	Dry	3/3/42
2	Adams.....	Wildcat	35-1S-6W	A. L. Williams, Pieper No. 1	987	"Trenton"	789	Dry	10/6/42
3	Alexander....	Wildcat	4-1S-3W	Whitebread & Kippings, R. W. Menton No. 1	609	"Trenton"	?	Dry	10/6/42
4	Bond.....	Wildcat	8-6N-4W	E. J. Huhbert et al., Shideler No. 1	2,051	Devonian	1,910	Dry	2/24/42
5	Bond.....	Wildcat	31-7N-4W	Downing & George, Sorento Bank No. 1	2,025	Devonian	1,914	Dry	3/24/42
6	Champaign...	Wildcat	20-20N-8E	Barber & Sievers, Lindsey No. 1	2,054	St. Peter	2,027	Dry	11/10/42
7	Clark.....	Wildcat	32-9N-14W	C. R. Craft, W. Finney No. 1	2,691	Devonian	2,504	Dry	6/23/42
8	Clark.....	Wildcat	7-10N-11W	Craft et al., Imle No. 1	2,623	Devonian	2,464	Dry	6/23/42
9	Clinton.....	Wildcat	19-2N-1W	Texas, C. Zimmerman No. 1	2,970	Devonian	2,835	Dry	8/4/42
10	Clinton.....	Wildcat	23-2N-5W	E. J. Ruwaldt, Twiss No. 1	3,044	"Trenton"	2,944	Dry	8/25/42
11	Clinton.....	Boulder	2-2N-2W	E. Frank Jones, Harrison No. 2	2,670	Devonian	2,584	341 + 38 ^a	10/6/42
12	Clinton.....	Wildcat	29-2N-4W	Olson Oil, H. B. Alberterst No. 1	3,250	"Trenton"	3,105	Dry	12/1/42
13	Clinton.....	Wildcat	33-3N-1W	Gulf, E. Martin No. 1	2,953	Devonian	2,836	Dry	12/22/42
14	Coles.....	Wildcat	26-14N-9E	W. L. Topf, T. D. Basler No. 1	1,054	Devonian	1,050	Dry	8/25/42
15	Crawford....	Crawford main	35-6N-13W	Ohio Oil, C. L. Ducommun No. 28	4,654	St. Peter	4,650	Dry	3/17/42
16	Crawford....	Crawford main	4-6N-13W	W. A. Waymire, W. R. Buck No. 1	2,817	Devonian	2,780	Dry	8/25/42
17	Crawford....	Wildcat	26-8N-13W	G. Moulton, Lamb Unit No. 1	2,842	Devonian	2,796	Dry	9/8/42
18	Edgar.....	Wildcat	14-13N-14W	D. Russell, Whiteside No. 1	1,228	Devonian	1,199	Dry	8/25/42
19	Edgar.....	Wildcat	12-15N-14W	Olson Oil, Morrow No. 1	929	Devonian	897	Dry	9/22/42
20	Fulton.....	Wildcat	28-4N-2E	Lagers & Webb, Clear No. 1	1,165	"Trenton"	976	Dry	1/20/42
21	Fulton.....	Wildcat	19-5N-4E	Bowton et al., P. J. McNally No. 1	1,110	"Trenton"	1,097	Dry	4/28/42
22	Hancock....	Wildcat	24-4N-7W	W. C. Cain, Tobias No. 1	865	"Trenton"	730	Dry	3/3/42
23	Henderson...	Wildcat	22-11N-5W	C. M. Stotts, Stotts-Richmond No. 1	900	Glenwood	865	Dry	1/5/43
24	Iroquois....	Wildcat	7-25N-13W	Robinson-Puckett, Inc., Behrens No. 1	935	Silurian	313	Dry	1/6/43
25	Iroquois....	Wildcat	17-26N-12W	Detrick & Stuart, Lockhart No. 1	1,032	"Trenton"	940	Dry	2/24/42
26	Jefferson....	Wildcat	8-3S-1E	Magnolia Petroleum, Riddle Bros. No. 1	3,860	Devonian	3,705	Dry	2/3/42
27	Jefferson....	Wildcat	16-3S-3E	Texas, H. P. Crouch No. 1	4,759	Devonian	4,520	Dry	9/15/42
28	McDonough..	Wildcat	4-4N-4W	J. B. Bushnell, Newland No. 1	535	Maquoketa	535	Dry	2/10/42
29	McDonough..	Wildcat	20-4N-4W	C. B. Talhot, F. W. Powell No. 1	725	"Trenton"	700 Est.	Dry	2/17/42
30	McDonough..	Wildcat	2-4N-4W	D. K. Degenther, E. W. Hagon No. 1	782	"Trenton"	650	Dry	6/16/42
31	McDonough..	Wildcat	30-5N-4W	H. J. Hensley, Bushnell No. 1	851	"Trenton"	750	Dry	7/14/42
32	McLean.....	Wildcat	33-24N-5E	J. M. McLaughlin, J. McGowan No. 1	2,261	St. Peter	2,125	Dry	11/3/42
33	Madison.....	Wildcat	33-5N-6W	Aleh & Carroll, Rinkel No. 1	2,584	"Trenton"	2,457	Dry	3/10/42
34	Madison.....	Wildcat	16-3N-6W	M. D. Bryant et al., H. Meyer No. 1	2,354	"Trenton"	2,319	118	6/2/42
35	Madison.....	Wildcat	19-3N-6W	J. W. Menhall, Holtgrave No. 1	2,403	"Trenton"	2,379	Dry	9/22/42
36	Madison.....	Wildcat	21-4N-8W	Gulf Oil, Stewart No. 1	2,136	"Trenton"	1,976	Dry	9/8/42
37	Madison.....	Wildcat	28-3N-6W	Oils Inc., Noll No. 1	2,506	"Trenton"	2,481	Dry	11/3/42
38	Madison.....	Wildcat	2-4N-6W	L. Sloan, Kiser No. 1	2,619	"Trenton"	2,517	Dry	11/3/42

^a Oil + water.

- Edwards County; 5 miles 4-in., Lancaster station south to Friendsville field, Wabash County; 3 miles 4-in., Benton North field south to Benton field, Franklin County.
- Gulf Pipe Line Co.—2 miles 3-in., Mason field to the Edgewood station, Clay County.
- Illinois Pipe Line Co.—18 miles 6-in. and 4-in. combination, Bible Grove field to Montrose Station, Effingham County; 8 miles 8-in. Parkersburg field east to Lancaster Station, Wabash County.
- Louden Pipe Line Co.—2 miles 2-in., Kell field northwest to the C. & E. I. R. R. near Kell, Marion County.
- Magnolia Pipe Line Co.—3 miles 4-in., Roaches field to Woodlawn field, Jefferson County.
- Pure Oil Co.—3 miles 4-in. Sainte Marie field to (Sohio) trunk line, Jasper County; 6 miles 6-in. Johnsonville field to Cisne Station, Wayne County; 8 miles 6-in. loop in Cisne field to Clay City field line, Clay County.
- Shell Pipe Line Corp.—3 miles 6-in., Rural Hill field north to Illinois Pipe Line, Hamilton County.
- Slater Oil and Grease Co.—3 miles 3-in., King field south to C. and E. I. R. R. at Bonnie, Jefferson County.
- Sohio Pipe Line Co.—6 miles 4-in., St. Jacob field north to Magnolia trunk line near Marine, Ill.; 5 miles 2-in., St. James field to St. Paul field, Fayette County; 1 mile 2-in., Dundas East field southeast to the Sohio Pipe Line trunk line, Richland County; 20 miles 4-in. and 6-in., Johnsonville field to Flora pump station (Sohio), Clay County; 6 miles 6-in., Covington pump station to

TABLE 7.—(Continued)

	County	Pool or Wildcat	Location	Company and Farm	Total Depth, Ft.	Deepest Formation Tested	Top, Ft.	Remarks	Date Completed
39	Madison	Wildec	20-4N-7W	Ledbetter & Gardenhire, Holtman No. 1	2,320	"Trenton"	2,207	Dry	11/10/42
40	Madison	Wildec	7-6N-7W	E. C. Stout et al., Goebel et al., No. 1	2,079	"Trenton"	1,987	Dry	12/15/42
41	Montgomery	Wildec	29-8N-5W	W. R. Holmes, Niemann No. 1	602	Pennsylvanian	600	15	12/15/42
42	Morgan	Wildec	25-13N-10W	G. L. Hills et al., J. W. Sharp No. 1	952	Devonian	807	Dry	7/28/42
43	Morgan	Wildec	29-14N-10W	Allan J. Coe, Robinson No. 1	1,041	Devonian	937	Dry	7/21/42
44	Ferry	Wildec	23-4S-2W	Shell Oil, J. Schubert No. 1	3,014	Devonian	2,853	Dry	3/17/42
45	Ferry	Wildec	1-5S-2W	Texas, W. Malinski No. 1	3,087	Devonian	2,889	Dry	6/9/42
46	Pulaski	Wildec	9-15S-1E	R. G. Williams et al., W. L. Richey No. 1	3,885	St. Peter	3,872	Dry	7/28/42
47	St. Clair	Wildec	24-1S-10W	W. Payne, W. Ehlers No. 1	1,097	"Trenton"	983	Dry	6/23/42
48	St. Clair	Wildec	5-2N-6W	Weinert et al., North No. 1	2,471	"Trenton"	2,440	Dry	9/22/42
49	St. Clair	Wildec	23-2S-8W	T. R. Kerwin, Harbaugh No. 1	1,396	"Trenton"	1,356	Dry	9/15/42
50	St. Clair	Wildec	5-1N-8W	Mid-Sun Oil, Schneppe Community No. 1	2,001	"Trenton"	1,930	Dry	10/27/42
51	St. Clair	Wildec	17-2N-7W	L. L. Benoist, Hobrein No. 1	2,095	"Trenton"	2,021	Dry	11/3/42
52	St. Clair	Wildec	31-2N-7W	P. S. Pritchard et al., Holiday No. 1	2,039	"Trenton"	1,920	Dry	10/27/42
53	St. Clair	Wildec	14-1N-6W	Smokey Oil, E. Morris Community No. 1	2,765	"Trenton"	2,672	Dry	1/5/43
54	St. Clair	Wildec	2-1N-8W	Mid-Sun Oil, Randle No. 1	1,977	"Trenton"	1,875	Dry	12/15/42
55	St. Clair	Wildec	26-2N-6W	V. J. Nolan, J. D. Schoene No. 1	2,689	"Trenton"	2,648	Dry	1/5/43
56	St. Clair	Wildec	16-2N-8W	Smokey Oil, A. Kinsella No. 1	2,009	"Trenton"	1,925	Dry	1/5/43
57	Schuyler	Wildec	25-3N-4W	W. Vette, Prudential Life Ins. No. 1	924	"Trenton"	764	Dry	5/5/42
58	Tazewell	Wildec	24-25N-3W	R. Bartelmay, Mathis No. 1-A	1,675	"Trenton"	1,672	Dry	3/24/42
59	White	Maunie	7-6S-11E	H. K. Riddle, E. P. Hubele No. 1	1,335	Pennsylvanian	?	58	5/12/42
60	White	Storms	27-6S-9E	Green-Johnston, Aud No. 1	89	Pennsylvanian	?	Dry	11/24/42

Johnsonville pump station, Wayne County; 7 miles 2-in., Bone Gap field south to Albion field, Edwards County; 2 miles 3-in., Barnhill East field south to Sohio trunk line, Wayne County; 12 miles 4-in. Woodlawn field to Dix to Centralia (Sohio) line and 6 miles 6-in. from there to Centralia field to

Robinson, Ill. trunk line (Sohio); 1 mile 2-in., Sailor Springs Cons. field to the Sohio trunk line, Clay County; 3 miles 2-in., Friendsville field to Maud field, Wabash County; 2 miles 4-in., Concord field northeast to Sohio trunk line, White County; 5 miles 4-in., Rural Hill field north to Sohio trunk line, Hamilton

TABLE 8.—Summary of Drilling and Initial Production in Illinois for 1942

	County	Number of Wells Drilled		Total Initial Production		Footage Drilled ^a		
		Total Completions	Total Producing		Oil, Bbl.	Gas, Millions Cu. Ft.	Total	Producing Wells
			Oil	Gas				
1	Adams.....	2	0	0	0	2,237	0	
2	Alexander.....	1	0	0	0	609	0	
3	Bond.....	16	3	1	43	18,870	4,597	
4	Champaign.....	1	0	0	0	577	0	
5	Christian.....	2	0	0	0	2,997	0	
6	Clark.....	11	1	0	5	13,470	1,568	
7	Clay.....	137	74	0	12,387	387,891	201,824	
8	Clinton.....	59	28	0	3,890	86,002	37,079	
9	Coles.....	12	1	0	10	17,749	1,872	
10	Crawford.....	16	3	0	73	31,871	5,122	
11	Cumberland.....	5	0	0	0	10,171	0	
12	Edgar.....	3	0	0	0	3,016	0	
13	Edwards.....	49	30	0	8,850	156,230	95,541	
14	Effingham.....	38	16	0	1,316	84,500	35,758	
15	Fayette.....	69	47	0	6,125	147,146	103,837	
16	Franklin.....	65	23	0	1,700	178,300	57,779	
17	Fulton.....	2	0	0	0	2,275	0	
18	Gallatin.....	53	30	1	3,233	130,315	70,827	
19	Hamilton.....	256	185	0	47,341	810,785	581,231	
20	Hancock.....	1	0	0	0	865	0	
21	Hardin.....	1	0	0	0	1,822	0	
22	Henderson.....	1	0	0	0	900	0	
23	Iroquois.....	2	0	0	0	1,067	0	
24	Jackson.....	5	0	0	0	6,493	0	
25	Jasper.....	101	71	0	18,398	289,045	202,763	
26	Jefferson.....	84	32	0	4,524	216,626	80,409	
27	Johnson.....	1	0	0	0	705	0	
28	La Salle.....	1	0	0	0	420	0	
29	Lawrence.....	58	37	5	3,779	98,799	66,746	
30	Livingston.....	1	0	0	0	315	0	
31	McDonough.....	5	1	0	2	3,340	447	
32	McLean.....	1	0	0	0	2,261	0	
33	Macon.....	1	0	0	0	1,333	0	
34	Macoupin.....	20	1	4	10	9,477	2,577	
35	Madison.....	35	23	0	5,034	85,323	54,617	
36	Marion.....	42	13	0	512	94,644	21,156	
37	Monroe.....	1	0	0	0	242	0	
38	Montgomery.....	4	1	1	45	2,536	602	
39	Morgan.....	3	0	0	0	2,403	0	
40	Peoria.....	1	0	0	0	966	0	
41	Perry.....	14	3	0	50	22,793	3,422	
42	Pulaski.....	1	0	0	0	3,885	0	
43	Putnam.....	1	0	0	0	375	0	
44	Randolph.....	2	0	0	0	2,707	0	
45	Richland.....	92	49	1	7,231	271,856	142,205	
46	St. Clair.....	24	5	0	155	13,210	3,359	
47	Saline.....	12	0	0	0	37,600	0	
48	Schuyler.....	1	0	0	0	924	0	
49	Shelby.....	4	0	0	0	7,765	0	
50	Tazewell.....	1	0	0	0	1,675	0	
51	Wabash.....	95	61	0	6,076	220,307	139,938	
52	Washington.....	29	14	0	576	43,811	20,724	
53	Wayne.....	297	201	0	52,292	955,420	645,581	
54	White.....	302	213	0	27,982	830,614	612,983	
55	Williamson.....	7	0	0	0	19,160	0	
		2,048	1,166	13	211,639	13.92	5,339,504	3,194,564

^a Includes old wells deepened.

TABLE 9.—Fields with Wells Producing from More than One Formation

Field	County	Total Number of Combination Wells	Number of Wells and Producing Formations ^a
1 Iola.....	Clay	1	1BA
2 Clay City Consolidated.....	Clay, Wayne	12	6RM, 1ARM, 1AM, 1CR, 1CB, 2AR
3 Albion.....	Edwards	5	2BA, 1BM, 2BAM
4 Mason South.....	Effingham	6	6BA
5 Louden.....	Effingham, Fayette	191	101CP, 45CB, 14PB, 31CPB
6 Inman East.....	Gallatin	7	2CW, 1CiT, 2TW, 1PaW, 1PWT
7 Blairsville.....	Hamilton	1	1ALM
8 Dale-Hoodville Consolidated.....	Hamilton	45	1CA, 1CM, 1LA, 1CB, 40BA, 1RM
9 Rural Hill.....	Hamilton	60	20AL, 19ALM, 8LM, 12AM, 1RA
10 King.....	Jefferson	2	1ALM, 1LM
11 Markham City.....	Jefferson	1	1LM
12 Salem.....	Marion	689	470BA, 215MS, 2BAM, 1AM, 1MD
13 Dundas Consolidated.....	Richland, Jasper	5	1AM, 4RM
14 Keensburg Consolidated.....	Wabash	14	2BiC, 6BC, 2BA, 2AM, 1CBA, 1CA
15 Maud.....	Wabash	1	1WM
16 Mt. Carmel.....	Wabash	11	1RM, 2BiC, 2BiCM, 6CM
17 Irvington.....	Washington	1	1CB
18 Barnhill.....	Wayne	2	2RM
19 Boyleston.....	Wayne	3	2LM, 1RM
20 Covington.....	Wayne	2	2LM
21 Johnsonville.....	Wayne	7	5AM, 2AL
22 Mt. Erie.....	Wayne	1	1RM
23 Sims.....	Wayne	18	1AL, 4LM, 1RM, 3LAM, 9AM
24 Sims North.....	Wayne	1	1RM
25 Aden.....	Wayne, Hamilton	1	1AM
26 Centerville East.....	White	1	1LT
27 New Haven.....	White	4	2TC, 2CM
28 Phillipstown.....	White	1	1CT
29 Stokes.....	White	1	1TP
30 Roland.....	White	31	1WP, 1WCP, 1WP, 3BA, 1BAM, 1WCA, 3CB, 9WB, 9WA, 1CBA, 1CA
31 Iron.....	White	3	1TC, 1TH, 1BM
32 Maunie South.....	White	3	3PaT
33 New Harmony Consolidated.....	White	169	5CP, 1TPB, 30PB, 1TB, 7CBM, 7WCBA, 3CBAM, 1TCM, 2WC, 27CB, 28CBA, 2WA, 3TCA, 3TA, 1TCB, 5AM, 13BA, 1WB, 1TM, 1CM, 2WCBAM, 1WCB, 1CPM, 13CA, 2TC, 1CPB, 1BM, 1CPBAM, 1BiCA, 1PA, 1WM, 1WBM, 1RM
34 Mills Shoals.....	White, Hamilton	3	3AM
		1,303	

^a Names of sands indicated as follows:

Bi, Biehl	T, Tar Springs	A, Aux Vases
Bu, Buchanan	H, Hardinsburg	L, Levias
Pa, Palestine	C, Cypress	R, Rosiclare
Cl, Clore	P, Paint Creek Stray	M, McClosky
W, Waltersburg	B, Bethel	S, Salem
		D, Devonian

TABLE 10.—Natural Gas Produced and Marketed in Illinois in 1942

Field	County	Where Marketed	Amount Produced and Marketed, M Cu. Ft.
Russellville gas.....	Lawrence	Illinois, Indiana, Kentucky	1,472,183
Ayers gas.....	Bond	Greenville, Illinois	13,454
Salem ^a	Marion	Centralia, Salem and Mt. Vernon, Illinois	284,584
Louden ^a	Fayette	Brownstown, St. Elmo, Vandalia, Illinois	703,216
Albion ^b	Edwards	Albion, Illinois	100,000
Total Illinois.....			2,573,437

^a Residue gas from natural-gasoline plants.

^b Used in brick plants until latter shut down 3/31/42.

County; 4 miles 4-in., Walpole field north to Dale-Hoodville Consolidated field, Hamilton County; 3 miles 6-in. loop on Storms to Indiana line.

Sun Oil Co.—2 miles 4-in., Centerville East field west to Centerville Station, White County; 5 miles 4-in., Rural Hill field northeast to Illinois Pipe Line line, Hamilton County.

Texas Pipe Line Co.—4 miles 4-in., 4 miles 6-in., Rural Hill field northeast to pump station and 33 miles 6-in. from there north to Sims field and northeast to Johnsonville pump station, Wayne County; 7 miles 6-in., Blairsville field north to Aden field, Hamilton County.

War Emergency Pipeline—107 miles 24-in., Mississippi River near Thebes, Ill. northeast to the Wabash River at sec. 23, T. 4 S., R. 14 W., White County.

Natural Gas

Illinois Iowa Power Co.—4 miles 6-in., Salem field southwest to Centralia to Mt. Vernon line; 20 miles 4-in., Centralia, Ill. to Mt. Vernon, Ill.; 14 miles 4-in., Monmouth, Ill. to Galesburg, Ill.; 2 miles 4-in., Oglesby, Ill. north to La Salle, Ill.; 2 miles 4-in., La Salle, Ill. west to Peru, Ill.; 2 miles 4-in., Spring Valley, Ill. east to Peru, Ill.; 4 miles 3-in., Peru, Ill. north to trunk line.

Illinois St. Louis Gas Line Co.—9 miles 4-in., Salem field to Centralia, Ill.

Industrial Natural Gas Co.—12 miles 4-in., 8 miles 6-in., Salem field to Mt. Vernon, Ill.

Natural Gas Pipe Line Co. of America.—2 miles 2-in., Geneseo, Ill. southeast to trunk line; 10 miles 6-in., Sterling, Ill. south to trunk line; 10 miles 8-in., Rockford, Ill. southeast to trunk line; 18 miles 4-in., Sycamore, Ill. northwest to trunk line.

Texas Pipe Line Co.—75 miles 6-in., Salem field to Lawrenceville Station, Lawrence County.

REFINERIES

No new refineries were constructed in Illinois during 1942, but the total daily refinery capacity was increased from 275,450 to 281,100 barrels.

During the year, 33.1 per cent of Illinois crude oil production was sent to refineries

in the Central refining district (Illinois, Indiana, Kentucky, Michigan and western Ohio) and to the Appalachian refining district (eastern Ohio, western New York, western Pennsylvania and West Virginia). For December 1942, the runs to stills in the Central and the Appalachian refining districts were 26,967,000 bbl. Of this amount, Illinois production was 28.8 per cent. Stocks of crude petroleum on hand in Illinois on Dec. 31, 1942 were 9,170,000 bbl., as compared with 18,280,000 bbl. on Dec. 31, 1941. Stocks of refined products in the Central and Appalachian refining districts compared with the previous year, according to the U. S. Bureau of Mines, are as follows:

Product	Dec. 31, 1942, Bbl.	Dec. 31, 1941, Bbl.
Gasoline.....	19,026,000	22,011,000
Gas oil and distillate fuel..	6,643,000	4,763,000
Residual fuel oil.....	3,025,000	4,479,000

PRODUCTION OF NATURAL GAS

The amount of natural gas produced and marketed in Illinois during 1941 was 2,573,437 M cu. ft. The amount sold from each field is given in Table 10.

Russellville Gas Field.—Five new wells were drilled within proved territory in the Russellville gas field during 1942, bringing the total number of producing wells in the field to 53. Three of these wells produce from the Bridgeport sand and two from the Buchanan sand. To the end of 1942 the productive area of Buchanan sand proved by drilling was 1600 acres, and of the Bridgeport, 270 acres. The initial productions of the wells was of the order of 2,000,000 cu. feet.

Ayers Gas Field.—One well was completed in the Ayers gas field, Bond County, during the year and brought the number of producing wells in that field to 8. The field was discovered in 1922, covers 335 acres and has produced a total of approximately 221,000,000 cu. ft. of gas from the

Bethel sandstone at a depth of about 950 feet.

NATURAL GASOLINE PLANTS

Natural gas accompanying oil production in the Louden field during 1942 is estimated at 8,400,000,000 cu. ft. The average daily production at the end of the year was approximately 20,000,000 cu. ft. The greater part of this gas is processed daily by the Carter Oil Company's two repressuring plants and 6,000,000 cu. ft. of residue gas is injected into the producing sands. Residue gas from the two plants is furnished also to the G. H. and G. Pipe Line Co. for the towns of St. Elmo, Brownstown, and Vandalia, Ill., at the rate of 1,900,000 cu. ft. per day. The pipe-line company also receives 50,000 cu. ft. of gas daily from a well in the Louden field, which is producing from a basal Pennsylvanian sandstone.

The production of natural gas in the Salem field for 1942 is estimated at 23,700,000,000 cu. ft. At the end of the year the estimated daily production was 63,000,000 cu. ft. Of this amount 40,800,000 cu. ft. per day is processed by the four natural-gasoline plants in the field. The Texas Company returns approximately 5,000,000 cu. ft. of residue gas daily to the producing sands in its repressuring operations in the Salem field. Residue gas from the Warren Petroleum Company's plant is supplied to the cities of Salem, Centralia, and Mt. Vernon, Illinois. This consumption at the end of the year was approximately 800,000 cu. ft. per day.

Two new natural-gasoline plants were built in Illinois during 1942. The Warren Petroleum Corporation's plant at Crossville began operation in July and the Texas Company's plant near Hoodville began operation in December. A small amount of gas was returned to the producing sands of this field through several input wells during 1942, marking the beginning of a large-scale pressure-maintenance system there.

The Warren Petroleum Corporation's Crossville plant is in the New Harmony Consolidated field, White County. This field made an estimated 8,700,000,000 cu. ft. of gas during 1942. At the end of the year the estimated daily production was 21,000,000 cu. ft. Part of this was processed by the Crossville plant; an average of approximately 1,500,000 cu. ft. of residue gas was returned to the producing sands daily during the latter half of 1942. An estimated 100,000,000 cu. ft. of natural gas produced with the oil in the Albion pool, Edwards County, was marketed to brick-manufacturing plants at Albion, Ill., during the first quarter of 1942. Daily average production for the Albion field for 1942 was approximately 2,000,000 cu. feet.

New oil fields and further extension of the productive acreage of the older oil fields increased the production of natural gas accompanying oil production during 1942. The total gas production for 1942 for the fields discovered after Jan. 1, 1937, is estimated at 84,400,000,000 cu. ft. A large part of this production is burned in flares.

NATURAL GASOLINE AND LIQUEFIED PETROLEUM GASES

Natural gasoline is produced in 40 plants in the old Southeastern field, with a total capacity of approximately 10,000 gal. daily; seven plants, including two in the Louden field, one in the New Harmony Consolidated field and four in the Salem field, have a total capacity of approximately 280,000 gal. daily. According to the U. S. Bureau of Mines,* 66,616,000 gal. of natural gasoline was produced in Illinois in 1942. In January, the amount was 5,582,000 and there was not much fluctuation from this figure throughout the year. The production of liquefied petroleum gases for 1942 amounted to 73,619,000 gal., according to the U. S. Bureau of Mines.

* G. R. Hopkins, personal communication, February 1943

In January the amount was 5,325,000 gal. and there was a steady increase to 7,680,000 for December.

SECONDARY RECOVERY

The most important event in secondary recovery in Illinois in 1942 was the inauguration of two water-flooding projects by the Forest Producing Corporation, one in Cumberland County and one in Clark. This company brought to Illinois the wide experience gained in successful operations in Pennsylvania and Oklahoma. Water input began in July 1942 following the drilling of some 34 input wells and 20 oil wells. Later the Pure Oil Co. started three "circle" floods in the "McClosky" in the Clay City area, by converting former oil wells into water-input wells. The Adams Corners Oil Co. continued its successful flooding operations on the Biehl sand in the Allendale field. More than 50 water-input wells are being operated in the state. Two important flooding operations in the Patoka field (Marion County) and in the Colmar-Plymouth field (McDonough County), planned in 1942 were not started until 1943. These projects have aroused great interest among producers throughout the state and the results so far obtained encourage the hope that through this process many fields will have a new lease on life.

The practice of repressuring with gas, air, or a combination of the two, was somewhat extended over that of 1941, the principal companies reporting more than 500 input wells in operation. The skillfully engineered pressure-maintenance operation conducted by the Carter Oil Co. in the Loudon field was expanded by the addition of six new input wells. An operation was started at New Harmony covering a large part of the pool. The Warren Petroleum Co. erected a combined gasoline and repressuring plant near Crossville, extracting gasoline and liquefied petroleum gases by pressure and absorption from the casing-head gas. A large part of the residue gas

from this plant is being injected into the oil sands. These large operations at Loudon, Salem, and New Harmony are doing much to make use of the gas and to conserve the reservoir energy of their respective territories. Repressuring in the old field showed little change, except that new operations were planned which did not begin until 1943.

LEGISLATION AND REGULATION

Federal Conservation Order M-68, which restricted drilling to one well to 40 acres in order to save steel, was in effect during the first eight months of 1942. Order M-68-5 superseded it Aug. 31 and was in effect for the last four months of the year. The latter permitted a well spacing of one well to 10 acres for wells producing from sandstone formations less than 2500 ft. deep and one well to 20 acres for wells producing from sandstone formations 2500 ft. deep or more. The spacing of one well to 40 acres for limestone formations was continued.

Rules and regulations for water-flooding of oil properties and rules and regulations relating to wells to be drilled for oil, gas, coal, or water, the plugging of wells, issuance of permits therefor, prevention of waste, etc., were issued by the Department of Mines and Minerals, Springfield, Ill. during 1942. The former were approved Feb. 20, 1942; the latter were adopted Aug. 26, 1942. The rules and regulations were issued pursuant to Section 6 of the Illinois Act entitled "An Act in Relation to the Conservation of the Oil, Gas, and Coal Resources in this State," which was effective July 29, 1941.

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FOOTNOTES TO COLUMN HEADINGS—TABLE I

^a All fields to be listed alphabetically for the district; or alphabetically by counties in alphabetical order.

^b Areas where both oil and gas are produced, unless gas is marketed outside the field, are included in column headed "Oil." Manufacture of casinghead gasoline and carbon black is interpreted as outside marketing of gas.

^c Wells producing both oil and gas are classified as "Producing Oil." Gas wells are those producing gas, but include those producing wet gas, from which casinghead gasoline may be produced.

^d State by letters, as indicated, type of operation: PM, pressure maintenance from early life of field; RP, field repressuring in its later life; SR, repressuring operations of secondary recovery type.

^e Cam, Cambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; MisL, Lower Mississippian; MisU, Upper Mississippian; Pen, Pennsylvanian; Per, Permian; Tri, Triassic; Jur, Jurassic; CreL, Lower Cretaceous; CreU, Upper Cretaceous; Eoc, Eocene; Olig, Oligocene; Mio, Miocene; Pli, Pliocene.

^f S, sandstone; H, shale; L, limestone; OL, oolitic limestone; LS, limestone, sandy; C, chalk; A, anhydrite; D, dolomite; Da, arkosic dolomite; Gw, granite wash; P, serpentine; Cgl, conglomerate.

^g Figures are entered only for fields where the reservoir rock is of pore type. Figures represent ratio of pore space to total volume of net reservoir rock expressed in per cent. "Por" indicates that the reservoir rock is of pore type but said ratio is not known by the author. "Cav" indicates that the reservoir rock is of cavernous type; "Fis," fissure type.

^h A, anticline; AF, anticline with faulting as important feature; Af, anticline with faulting as minor feature; AM, accumulation due to both anticlinal and monoclin structure; H, strata are horizontal or near horizontal; MF, monocline-fault; MU, monocline-unconformity; ML, monocline-lens; MC, monocline with accumulation due to change in character of stratum; MI, monocline with accumulation against igneous barrier; MUP, monocline with accumulation due to sealing at outcrop by asphalt; D, dome; Ds, salt dome; T, terrace; TF, terrace with faulting as important feature; N, nose; S, syncline.

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