

STATE OF ILLINOIS
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Oil and Gas Development in Illinois in 1943

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IN 1943, Illinois produced 82,256,000 bbl. of oil, or 5.5 per cent of the total for the United States, and ranked sixth in the nation in oil production. This represents a decline of 23 per cent from 1942, when the total Illinois production was 106,590,000

July.....	218,000	Oct.....	220,000
Aug.....	216,000	Nov.....	223,000
Sept.....	220,000	Dec.....	218,000

This shows that most of the decline during the year took place between March

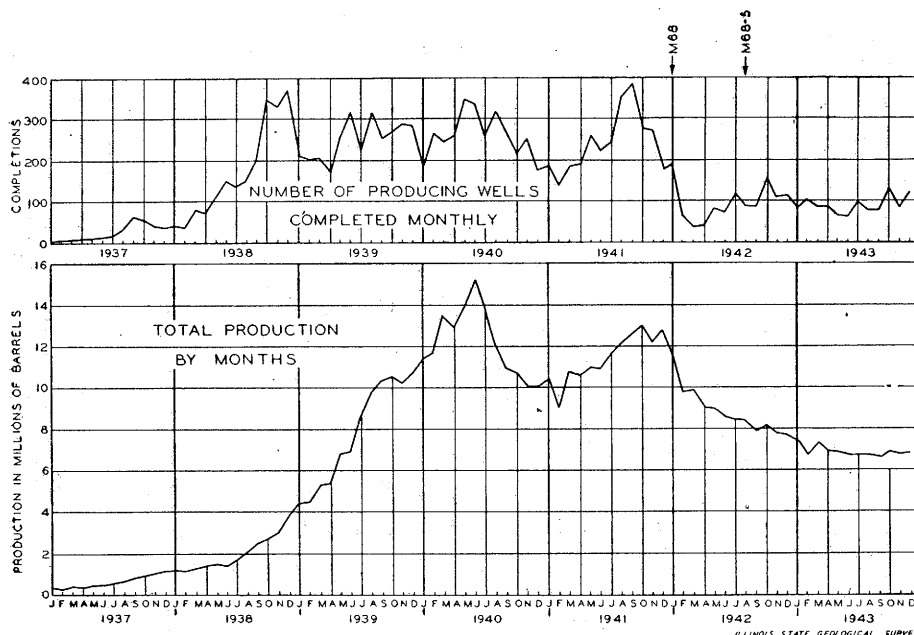


FIG. 1.—NUMBER OF PRODUCING WELLS COMPLETED MONTHLY AND OIL PRODUCTION BY MONTHS IN ILLINOIS, 1937-1943.

Dates of issue of Federal Conservation Order M-68 and M-68-5, regulating well spacing to save steel, are shown.

bbl. and Illinois ranked fifth. The daily average production for 1943 was approximately 225,000 bbl. Daily averages by months were as follows:

Jan.....	238,000	Apr.....	230,000
Feb.....	240,000	May.....	221,000
Mar.....	237,000	June.....	222,000

and May, and that for the last eight months of 1943 production has been essentially steady. This means that there has been enough production from new wells drilled to balance the natural decline of the older wells. The trends of drilling and production are shown in Fig. 1 and Table 3.

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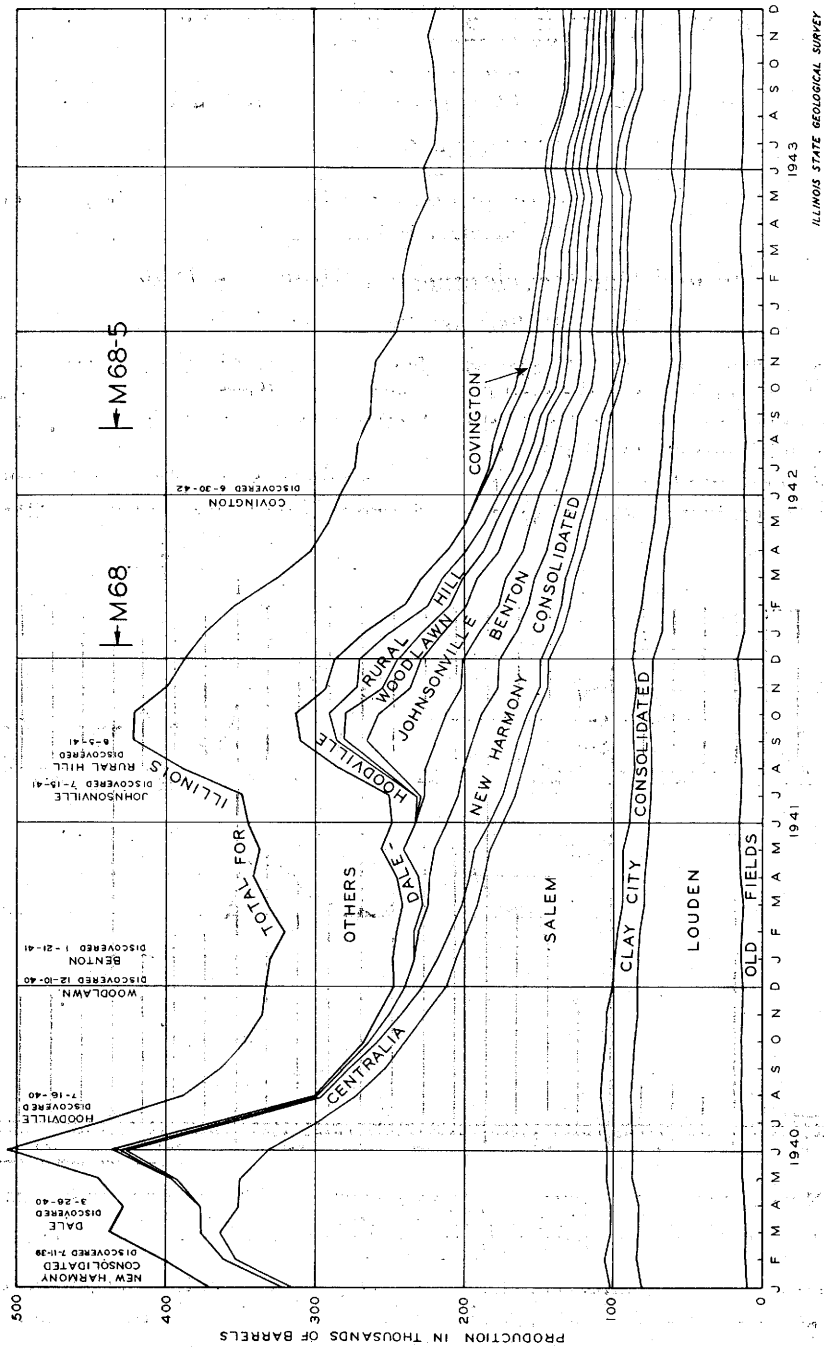


FIG. 2.—TOTAL DAILY OIL PRODUCTION BY MONTHS FOR ILLINOIS, SHOWING AMOUNTS CONTRIBUTED BY MAJOR FIELDS, 1940-1943. Dates of issue of Federal Conservation Order M-68 and M-68-5, regulating well spacing to save steel, are shown.

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During the past year, 1791 wells were drilled for oil and gas in Illinois as compared with 2016 in 1942, a reduction of 11 per cent. Of the former number, 461

DISCOVERIES

Twenty-eight new fields (Fig. 3, Table 2A), 66 extensions (Table 2B), and 49 additional producing zones in existing

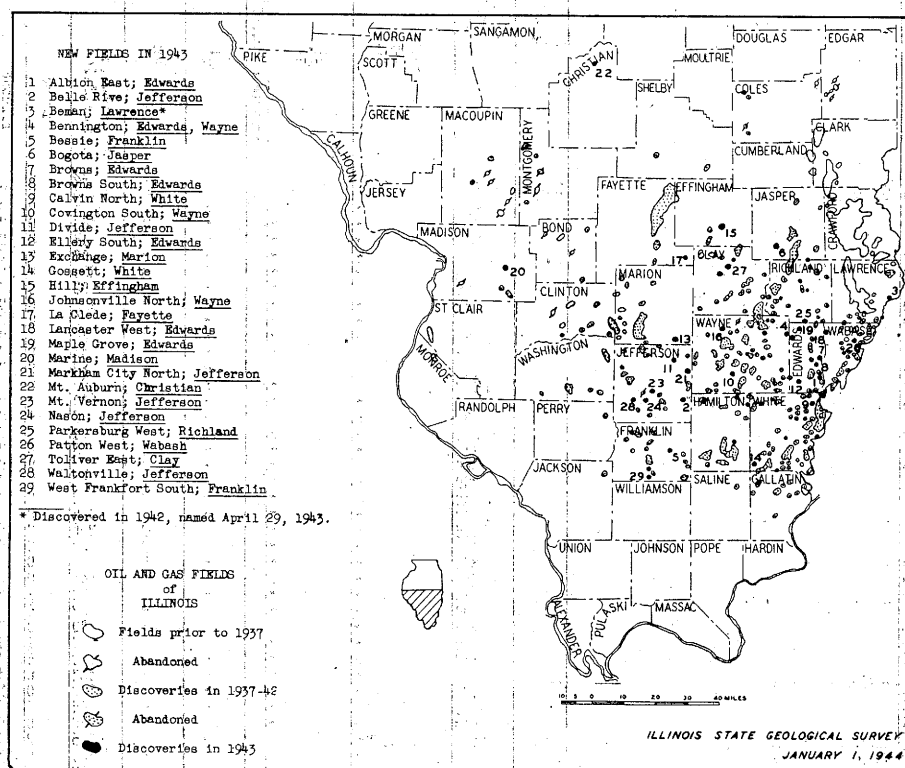


FIG. 3.—INDEX MAP OF NEW OIL FIELDS DISCOVERED IN ILLINOIS IN 1943. Older fields are also shown, except those in Colmar-Plymouth, McDonough and Hancock Counties, which are outside of the area of the map.

are classified as "wildcat" as compared with 549 in 1942. Twenty-eight new pools were discovered in 1943 as compared with 40 in 1942. No major pools have been discovered in Illinois since 1942. A graph of the productions of major fields in relation to the state total for the years 1940-1943 is shown in Fig. 2.

Prices of crude oil and federal regulations of well spacing in Illinois have remained unchanged throughout 1943.

Data on production and drilling by fields are given in Table 1.

fields (Table 2C) were discovered in 18 counties in Illinois during 1943. Of the 28 new fields, none were abandoned during the year, 10 were one-well fields, 13 had not more than 6 wells, two had 7 wells, one had 8, one had 10, and the largest new field, Calvin North in White County, was producing from 23 wells by the end of the year. In all, 110 wells were producing in these fields as of Jan. 4, 1944. In 1942, for comparison, 200 wells were producing from 37 new fields at the end of the year.

TABLE 1.—Oil and Gas Production in Illinois

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
1	Warrenton-Borton, Edgar.....	1906	100	30,000	0	0	0	22	0	0	
2	Westfield, Clark, Coles.....	1904	9,075	x	x	x	x	1,628	0	0	
3			925	x	x	x	x	186	0	0	
4			9,000	x	x	x	x	1,449	0	0	
5			220	x	x	x	x	13	0	0	
6	Siggins, Cumberland, Clark.....	1906	3,685	x	x	x	x	996	0	2	
7			3,190	x	x	x	x	854	0	0	
8			450	x	x	x	x	90	0	0	
9			960	x	x	x	x	193	0	0	
10	York, Cumberland, Clark.....	x	350	x	x	x	x	70	0	0	
11	Casey, Clark.....	1906	1,980	x	x	x	x	535	0	0	
12			205	x	x	x	x	41	0	0	
13			400	x	x	x	x	82	0	0	
14			1,540	x	x	x	x	322	0	0	
15	Martinsville, Clark.....	1922	865	x	x	x	x	219	1	0	
16			35	x	x	x	x	7	0	0	
17			310	x	x	x	x	64	1	0	
18			710	x	x	x	x	23	0	0	
19			600	x	x	x	x	35	0	0	
20			640	x	x	x	x	40	0	0	
21			10	x	x	x	x	2	0	0	
22	North Johnson, Clark.....	1907	1,440	x	x	x	x	485	0	0	
23			1,115	x	x	x	x	296	0	0	
24			180	x	x	x	x	32	0	0	
25			825	x	x	x	x	177	0	0	
26			215	x	x	x	x	44	0	0	
27	South Johnson, Clark.....	1907	1,780	x	x	x	x	536	1	8	
28			190	x	x	x	x	38	0	0	
29			295	x	x	x	x	59	0	0	
30			1,710	x	x	x	x	403	1	4	
31			850	x	x	x	x	170	0	4	
32	Bellair, Crawford, Jasper.....	1907	1,305	x	x	x	x	486	0	4	
33			1,165	x	x	x	x	310	0	2	
34			315	x	x	x	x	65	0	0	
35			910	x	x	x	x	182	0	0	
36	Clark County Division ¹		20,480	53,856,000	365,000	x	x	4,955	2	14	
37	Main, ² Crawford.....	1906	35,650	x	x	x	x	7,324	0	198	
38			340	x	x	x	x	68	0	0	
39			34,305	x	x	x	x	7,143	0	175	
40			1,000	x	x	x	x	108	0	23	
41			10	x	x	x	x	1	0	0	
42	New Hebron, Crawford.....	1909	1,560	x	x	x	x	297	0	0	
43	Chapman, Crawford.....	1914	1,560	x	x	x	x	193	0	0	
44	Parker, Crawford.....	1907	1,340	x	x	x	x	256	0	10	
45	Allison-Weger, Crawford.....	x	1,095	x	x	x	x	148	0	0	
46	Flat Rock, ³ Crawford.....	x	1,920	x	x	x	x	289	0	4	
47	Birds, Crawford, Lawrence.....	x	4,485	x	x	x	x	684	0	42	
48	Crawford County Division ⁴		47,610	149,956,000	1,303,000	x	x	9,191	0	268	
49	Lawrence, Lawrence, Crawford.....	1906	25,700	x	x	x	x	9,424	9	84	
50			50	x	x	x	x	5	0	x	
51			5,050	x	x	x	x	1,233	0	x	
52			2,240	x	x	x	x	481	5	x	
53			1,440	x	x	x	x	243	0	x	
54			16,180	x	x	x	x	3,017	0	x	
55			4,220	x	x	x	x	697	4	x	
56			6,950	x	x	x	x	959	0	x	
57	St. Francisville, Lawrence.....	x	420	x	x	x	x	55	0	0	
58	Lawrence County Division ⁵		26,120	231,249,000	1,726,000	x	x	4,479	9	84	

^b Footnotes to column heads and explanation of symbols are given on page 330a.¹ Total of lines 2, 6, 10, 11, 15, 22, 27, 32.² Includes Kibbie, Oblong, Robinson, and Hardinsville.³ Includes Swearingen gas.⁴ Total of lines 37, 42, 43, 44, 45, 46, 47.⁵ Total of lines 49 and 57.

TABLE 1.—(Continued)

Line Number	Wells Producing ² Dec. 1943			Reservoir Pressure, Lb. per Sq. In. ³	Character of Oil ¹	Producing Formation						Deepest Zone Tested ² to End of 1943			
	Oil					Name and Age ¹	Character ²	Porosity, Per Cent ²	Depth to Top of Producing Zone, Ft. ²	Productive Thickness, Avg. Ft., ² Net	Structure ²	Name	Depth of Hole, Ft.		
	Flowing	Artificial Lift	Gas												
1	0	2	0	293±	W	z	z	Unnamed; Pen	S	P	159	z	ML	"Trenton"	2,212
2	0	291	0	293±	W	z	z	Shallow gas; Pen	S	P	281	36	D	St. Peter	3,009
3	0	0	0	0	W	z	z	Westfield; MisL	L	Cav	334	z	D		
4	0	0	0	0	W	z	z	"Trenton"; Ord	L	P	2,265	z	D		
5	0	0	0	0	P	z	z	First Siggins; Pen	S	P	367	z	D	Dev	2,010
6	0	800	0	0	P	z	z	2nd & 3rd Siggins; Pen	S	P	478	z	D		
7	0	0	0	0	P	z	z	Lower Siggins; Pen	S	P	556	z	D		
8	0	0	0	0	P	z	z	York; Pen	S	P	588	z	AM	Pen	960
9	0	44	0	0	P	z	z	Upper gas; Pen	S	P	263	z	AM	MisL	808
10	0	488	0	0	P	z	z	Lower gas; Pen	S	P	309	z	AM		
11	0	0	0	0	P	z	z	Casey; Pen	S	P	444	z	AM		
12	0	0	0	0	P	z	z	Shallow; Pen	S	P	255	z	D	St. Peter	3,411
13	0	0	0	0	P	z	z	Casey; Pen	S	P	499	z	D		
14	0	0	0	0	P	z	z	Martinsville; MisL	S	P	477	z	D		
15	0	116	0	0	P	z	z	Carper; MisL	S	P	1,340	z	D		
16	0	0	0	0	P	z	z	"Niagaran"; Dev	S	P	1,553	z	D		
17	0	0	0	0	P	z	z	"Trenton"; Ord	L	P	2,708	z	D		
18	0	433	0	0	P	z	z	Claypool; Pen	S	P	416	z	AM	Mis	965
19	0	0	0	0	P	z	z	Shallow; Pen	S	P	314	z	AM		
20	0	0	0	0	P	z	z	Casey; Pen	S	P	465	z	AM		
21	0	0	0	0	P	z	z	Upper Partlow; Pen	S	P	534	z	AM	Dev	2,030
22	0	462	0	0	P	z	z	Claypool; Pen	S	P	392	z	AM		
23	0	0	0	0	P	z	z	Casey; Pen	S	P	453	z	AM		
24	0	0	0	0	P	z	z	Upper Partlow; Pen	S	P	489	z	AM		
25	0	0	0	0	P	z	z	Upper Partlow; Pen	S	P	598	z	AM		
26	0	371	0	0	P	z	z	"500 ft."; Pen	S	P	561	z	AM	MisL	1,471
27	0	0	0	0	P	z	z	"800 ft."; Pen	S	P	817	z	AM		
28	0	0	0	0	P	z	z	"900 ft."; MisU	S	P	886	z	AM		
29	0	3,005	0	425±	P	z	z	Shallow; Pen	S	P	508	z	ML	St. Peter	4,654
30	0	4,623	0	425±	P	z	z	Robinson; Pen	S	P	900	25±	ML		
31	0	0	0	0	P	z	z	Oblong; Mis	SL	P	1,337	z	A		
32	0	0	0	0	P	z	z	Devonian; Dev	L	P	2,794	11	ML		
33	0	146	0	0	P	z	z	Robinson; Pen	S	P	940	z	ML	Mis	2,056
34	0	60	0	0	P	z	z	Robinson; Pen	S	P	995	z	ML	Mis	2,279
35	0	209	0	0	P	z	z	Robinson; Pen	S	P	1,000	z	ML	Pen	1,127
36	0	66	0	0	P	z	z	Robinson; Pen	S	P	912	z	ML	Pen	1,041
37	0	126	0	0	P	z	z	Robinson (Flat Rock); Pen	S	P	935	z	ML	Dev	3,110
38	0	382	0	0	P	z	z	Robinson; Pen	S	P	930	z	ML	MisL	1,731
39	0	5,612	0	425±	P	z	z	Pennsylvanian; Pen	S	P	290	z	A	St. Peter	4,654
40	0	3,080	0	650±	P	z	z	Bridgeport; Pen	S	P	800	40	A	St. Peter	5,190
41	0	5	0	0	P	z	z	Buchanan; Pen	S	P	1,250	15	A		
42	0	0	0	0	P	z	z	"Gas"; MisU	S	P	1,330	15	A		
43	0	0	0	0	P	z	z	Kirkwood; MisU	S	P	1,400	30	A		
44	0	0	0	600+	P	z	z	Tracey; MisU	S	P	1,560	20	A		
45	0	0	0	650±	P	z	z	McClosky; MisL	L	P	1,700	10	A		
46	0	30	0	600	P	z	z	Bethel; MisU	S	P	1,843	22	ML	Mis	1,900
47	0	3,110	0	0	P	z	z							St. Peter	5,190

¹ Pressures in Southeastern Illinois oil fields are estimated bottom-hole pressures reported in previous Survey publications.² Gravities given prior to 1936 (except those in parentheses) were from data for the year 1925 furnished by the Ohio Pipe Line Company (formerly called the Illinois Pipe Line Company). Gravities in parentheses are for particular samples (see Ill. State Geol. Survey Bull. 54, Table 3). The values have been converted from Baumé to A. F. I. gravities.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^e	Gas Production, Millions Cu. Ft. ^c		Number of Oil and/or Gas Wells ^d		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
59	Allendale, Wabash.....	1912	2,400	6,339,000	809,000		x	x	528	25	5
60			x	x	x		x	x	467	19	2
61			x	x	x		x	x	3	0	0
62			x	x	x		x	x	6	1	0
63			x	x	x		x	x	6	0	0
64			x	x	x		x	x	36	4	3
65			x	x	x		x	x	9	1	0
66	Total Southeastern Fields ⁸		96,710	441,430,000	4,203,000		x	x	19,175	36	371
67	Ayers gas, Bond.....	1922	325	0	0		221.2	14.1	21	1	0
68	Greenville gas, Bond.....	1910 ⁹	160	0	0		990.0	0	4	0	0
69	Bartelso, Clinton.....	1936	580	1,356,000	154,000		0	0	73	1	1
70			320	861,000	79,000		0	0	48	1	1
71			230	495,000	75,000		0	0	25	0	0
72	Carlyle, Clinton.....	1911	915	3,481,000	30,000		0	0	165	0	36
73	Frogtown, Clinton.....	1918 ¹⁰	300	x	0		0	0	12	0	0
74	Ava-Campbell Hill, Jackson.....	1917 ¹¹	440	x	0		x	0	35	0	0
75	Colmar-Plymouth, McDonough, Hancock.....	1914	2,450	2,991,000	97,000		0	0	486	0	0
76	Carlinville, Macoupin.....	1909 ¹²	80	x	500		x	0	8	0	0
77	Gillespie-Benld gas, Macoupin.....	1923 ¹³	80	0	0		135.8	0	4	0	0
78	Gillespie-Wyen, Macoupin.....	1915	40	x	1,000		0	0	22	0	0
79	Spanish Needle Creek, Macoupin.....	1915 ¹⁴	80	0	0		14.4	0	7	0	0
80	Staunton gas, Macoupin.....	1916 ¹⁵	400	0	0		1,050.0	0	18	0	0
81	Collinsville, Madison.....	1909 ¹⁶	40	850	0		0	0	6	0	0
82	Brown, Langewisch-Kuester, Junction City, Marion.....	1910	175	x	x		0	0	14	1	1
83			60	x	x		0	0	7	0	1
84			115	x	x		0	0	7	1	0
85	Sandoval, Marion.....	1909	770	5,038,000	144,000		0	0	150	0	1
86			770	2,700,000	5,000		0	0	123	0	1
87			380	2,338,000	139,000		0	0	27	0	0
88	Wamac, Marion, Clinton, Washington.....	1921	250	469,000	13,000		0	0	106	0	7
89	Litchfield, Montgomery.....	1879 ¹⁷	100	22,800	500		0	0	18	0	0
90	Waterloo, Monroe.....	1920 ¹⁸	230	224,000	4,000		0	0	41	0	2
91	Jacksonville gas, Morgan.....	1910 ¹⁹	1,320	2,000	0		x	0	53	0	0
92	Pittsfield (gas), Pike.....	1886 ²⁰	8,960	0	0		x	0	68	0	0
93	Sparta, Randolph.....	1888 ²¹	165	x	0		x	0	20	0	0
94	Dupo, St. Clair.....	1928	670	1,879,000	28,000		x	0	255	0	8
95	Total for fields discovered prior to Jan. 1, 1937 ²²		114,240	456,894,000	4,675,000		2,415.5	14.1	20,801	39	427
96	Beaver Creek, Bond.....	1942	30	8,000	5,000		0	0	2	0	0
97	Sorento, Bond.....	1938	30	4,000	0		0	0	3	0	0
98	Woburn, Bond.....	1940	210	402,000	59,000		0	0	28	0	0
99	Mt. Auburn, Christian.....	1943	40	3,000	3,000		0	0	1	1	0
100	Bible Grove South, Clay.....	1942	20	18,000	11,000		0	0	1	0	0
101	Clay City West, Clay.....	1941	320	958,000	109,000		0	0	14	0	0
102	Flora, Clay.....	1938	450	454,000	110,000		0	0	28	6	0
103			10	x	x		0	0	1	0	0
104			x	x	x		0	0	3	0	0
105			10	x	x		0	0	1	0	0
106			x	x	x		0	0	23	6	0
107	Ingraham, Clay.....	1942 ²³	80	2,000	1,700		0	0	2	1	0

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 1934.²⁰ Gas not used until 1905, abandoned 1930.²¹ Abandoned 1900.²² Total of lines 66 to 94 inclusive. Cumulative oil production total based on U. S. Bureau of Mines monthly report.²³ Abandoned 1942, revived 1943.¹⁵ Abandoned 1919.¹⁶ Abandoned 1921.¹⁷ Abandoned 1904, revived 1942.¹⁸ Abandoned 1930, revived 1939.¹⁹ Abandoned 1937.

TABLE I.—(Continued)

Line Number	Wells Producing ^a Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Secondary Recovery ^a	Character of Oil ^c		Producing Formation					Deepest Zone Tested ^d to End of 1943		
	Oil			Initial	Avg./End 1943		Gravity A.P.L. at 60°F.	Sulphur, Per Cent	Name and Age ^e	Character ^f	Porosity, Per Cent ^g	Depth to Top of Producing Zone, Ft. ^h	Productive Thickness, Avg. Ft., ⁱ Net	Structure ^j	Name	Depth of Hole, Ft.
	Flowing	Artificial Lift	Gas													
59	0	298	0				35.1		Biehl; Pen		P	1,425	20	AM	MisL	2,367
60	0	244	0						Waltersburg; MisU		P	1,540	15			
61	0	0	0						Tar Springs; MisU		P	1,620	20			
62	0	6	0						Cypress; MisU		P	1,920	10			
63	0	33	0						Bethel; MisU		P	2,010	9			
64	0	9	0	900					McClosky; MisL	L	P	2,280	8			
65	0	12,027	0													
66	0	0	9	335					Bethel; MisU	S	P	940	5	A	"Trenton"	3,044
67	0	0	0						Lindley (1st., 2d); MisU	S	P	927		A	Dev	2,290
68	0	66	0											D	St. Peter	4,213
69	0	44	0				36.2	0.20	Carlyle; MisU	S	P	984	24	D		
70	0	22	0				41.5	0.27	Devonian; Dev	L	P	2,429	9	D		
71	0	26	0				35.2	0.26	Carlyle; MisU	S	P	1,035	20	A	St. Peter	4,120
72	0	0	0				31.9		Carlyle; MisU	S	P	950	7	D	Cypress	962
73	0	0	0						Cypress; MisU	S	P	780	18	A	Dev	2,530
74	0	219	0				37.6	0.38	Hoing; Dev	S	P	447	21	A	"Trenton"	805
75	0	0	0	135			27.7		Unnamed; Pen	S	P	380		A	Pen	410
76	0	0	0	155					Unnamed; Pen	S	P	542		A	Pen	575
77	0	8	0				30.0		Unnamed; Pen	S	P	650		T	"Trenton"	2,560
78	0	0	0						Unnamed; Pen	S	P	305		D	Pen	495
79	0	0	0	145					Unnamed; Pen	S	P	461		A	"Trenton"	2,371
80	0	0	0						Dev-Sil	L	P	1,305	20	ML	Sil	1,500
81	0	12	0													
82	0	5	0				32.0		Dykstra, Wilson; Pen	S	P	610	20	D	MisL	2,001
83	0	7	0				32.0		Cypress; MisU	S	P	1,658	15	D	Dev	3,344
84	0	24	0											D	St. Peter	5,023
85	0	7	0				34.5		Benoist; MisU	S	P	1,540	20±	D		
86	0	17	0				38.0	0.38	Devonian; Dev	L	P	2,924	9	D		
87	0	20	0				30.2		Petro; Pen	S	P	720	20	D	MisL	1,760
88	0	1	0				23.0	0.42	Unnamed; Pen	S	P	664		D	Pen	681
89	0	4	0				30.2	0.79	"Trenton"; Ord	L	P	410	50	A	"Trenton"	845
90	0	0	0						Gas; Pen, MisL	S	P	330	5	ML	"Trenton"	1,390
91	0	0	0													
92	0	0	0						"Niagaran"; Sil	L	P	265	10	A	St. Peter	893
93	0	0	0						Cypress; MisU	S	P	850	7	D	MisU	985
94	0	85	0				32.7	0.70	"Trenton"; Ord	L	P	561	50	A	New Richmond	1,800
95	0	12,491	9													
96	0	2	0				34.2	0.25	Bethel; MisU	S	P	1,116	7	A	Dev	2,526
97	0	1	0				35.4		Dev	L	P	1,830	5	D	Dev	1,900
98	0	28	0				36.4	0.20	Bethel, MisU	S	P	1,010	11	A	Dev	2,455
99	0	1	0				36.6	0.28	Sil	L	P	1,900	5	A	Sil	1,905
100	0	1	0						Aux Vases, MisU	S	P	2,735	5	A	MisL	2,930
101	0	14	0				39.0	0.17	McClosky, MisL	L	P	3,050	15	A	MisL	3,080
102	0	22	0											D	MisL	3,100
103	0	1	0						Tar Springs; MisU	S	P	2,320	12			
104	0	3	0						Cypress; MisU	S	P	2,595	5			
105	0	1	0				37.4		Bethel; MisU	S	P	2,790	12			
106	0	17	0				37.2	0.24	McClosky; MisL	L	P	2,965	6			
107	0	1	0						McClosky; MisL	L	P	3,100	7	A	MisL	3,140

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Gas Production, Millions Cu. Ft. ^c		Number of Oil and/or Gas Wells ^d			
				To End of 1943	During 1943	Producing Days, 1943 ^d	To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
108	Iola, Clay.....	1939 ²⁴	940	1,021,000	1,008,000		0	0	76	68	1
109			x	x	x		0	0			
110			x	x	x		0	0	4	4	0
111			x	x	x		0	0	4	3	0
112			x	x	x		0	0	34	28	1
113			x	x	x		0	0	9	9	0
114			x	x	x		0	0			
115			x	x	x		0	0	25	24	0
116	Kenner, Clay.....	1942	320	12,000	11,400		0	0	8	7	0
117			x	x	x		0	0	1	1	0
118	Sailor Springs Consolidated, Clay.....	1941	1,490	1,128,000	491,000		0	0	71	28	0
119			x	x	x		0	0			
120			x	x	x		0	0	31	8	0
121			x	x	x		0	0	34	19	0
122			x	x	x		0	0	5	0	0
123			x	x	x		0	0	1	1	0
124	Toliver, Clay.....	1942	40	5,000	3,000		0	0	1	0	0
125	Toliver East, Clay.....	1943	40	10,000	10,000		0	0	1	1	0
126	Xenia, Clay.....	1941	40	11,000	4,000		0	0	1	0	0
127	Clay City Consolidated, Clay, Wayne.....	1937	14,380	30,454,000	2,811,000		0	0	772	54	1
128			x	x	x		0	0	32	4	1
129			x	x	x		0	0	1	0	0
130			x	x	x		0	0	37	25	0
131			x	x	x		0	0	5	1	0
132			x	x	x		0	0	682	21	0
133			x	x	x		0	0	15	3	0
134	Bartelso South, Clinton.....	1942	50	7,000	6,000		0	0	2	1	0
135	Boulder, Clinton.....	1941	470	1,001,000	626,000		x	x	35	9	0
136			x	x	x		0	0	24	0	0
137			x	x	x		x	x	11	9	0
138	Centralia West, Clinton.....	1940	90	165,000	109,000		0	0	10	1	1
139	Hoffman, Clinton.....	1939	300	431,000	68,000		0	0	44	0	0
140			x	x	x		0	0	10	0	0
141			x	x	x		0	0	34	0	0
142	Posey, Clinton.....	1941	20	4,000	500		0	0	2	0	0
143	Centralia, Clinton, Marion.....	1937	2,850	24,066,000	1,706,000		0	0	906	0	35
144			x	x	x		0	0	23	0	0
145			x	x	x		0	0	562	0	10
146			x	12,830,000	942,000		0	0	319	0	25
147			x	28,000	4,000		0	0	2	0	0
148	Cooks Mills, Coles.....	1941 ²⁷	20	5,000	1,000		0	0	2	0	1
149	Mattoon, Coles.....	1939 ²⁸	40	33,000	10,000		0	0	3	1	0
150			10	x	x		0	0	1	0	0
151			10	x	x		0	0	1	1	0
152			20	x	x		0	0	1	0	0
153	New Bellair, Crawford.....	1942	20	7,000	2,000		0	0	2	0	0
154	Albion, Edwards.....	1940	900	2,708,000	369,000		0	0	90	9	1
155			x	x	x		0	0	3	0	0
156			x	x	x		0	0	14	4	1
157			x	x	x		0	0	3	3	0
158			x	x	x		0	0	2	0	0
159			x	x	x		0	0			
160			x	x	x		0	0	61	0	0
161			x	x	x		0	0	7	2	0
162	Albion East, Edwards.....	1943	250	35,000	35,000		0	0	6	6	0
163			x	x	x		0	0	1	1	0
164			x	x	x		0	0	3	3	0
165			x	x	x		0	0	1	1	0
166			x	x	x		0	0			
167			x	x	x		0	0	1	1	0
168	Albion North, Edwards.....	1942	20	5,000	2,000		0	0	1	0	0
169	Bone Gap, Edwards.....	1941	340	472,000	179,000		0	0	18	0	1

²⁴ Abandoned 1940, revived 1941.²⁷ Abandoned 1943.²⁸ Abandoned 1939, revived 1940.

TABLE 1.—(Continued)

Line Number	Wells Producing ^a Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Secondary Recovery ^b	Character of Oil ^c		Producing Formation					Deepest Zone Tested ^d to End of 1943			
	Oil		Gas	Initial	Avg./End 1943		Gravity A.P.I. at 60°F.	Sulphur, Per Cent	Name and Age ^e	Character ^f	Porosity, Per Cent ^g	Depth to Top of Producing Zone, Ft. ^h	Productive Thickness, Avg. Ft., ⁱ Net	Structure ^j	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift															
108	0	74	0			W			Tar Springs; MisU ²⁵	S	P	1,890	9	D	MisL	2,590	
109									Weiler; MisU	S	P	2,125	20				
110	0	4	0						Bethel; MisU	S	P	2,290	14				
111	0	4	0					36.0	0.14	Aux Vases; MisU	S	P	2,335	11			
112	0	32	0					35.4	0.25	McClosky; MisL	L	P	2,425	10			
113	0	9	0							Paint Creek; MisU ²⁵	S	P	2,240	15			
114																	
115	0	25	0														
116	0	8	0					36.8	0.22	Bethel; MisU	S	P	2,660	7	A	MisL	2,975
117	0	1	0							Aux Vases; MisU ²⁵	S	P	2,810	20			
118	0	71	0												D	MisL	3,085
119										Glen Dean; MisU ²⁵	L	P	2,390	15			
120	0	31	0					39.5	0.17	Tar Springs; MisU	S	P	2,340	15			
121	0	34	0					38.5	0.28	Cypress; MisU	S	P	2,590	10			
122	0	5	0					36.4		McClosky; MisL	L	P	3,010	5			
123	0	1	0														
124	0	1	0					37.1		McClosky; MisL	L	P	2,790	9	A	MisL	2,890
125	0	1	0							McClosky; MisL	L	P	2,840	10	A	MisL	2,850
126	0	1	0					35.2		Aux Vases; MisU	S	P	2,785	12	D	Dev	4,970
127	0	739	0												A	Dev	4,840
128	0	29	0					37.9		Cypress; MisU ⁱ	S	P	2,670	10			
129	0	1	0					38.0		Bethel; MisU	S	P	2,880	5			
130	0	36	0					38.0		Aux Vases; MisU	S	P	2,910	15			
131	0	5	0					38.0		Rosiclare; MisL	S	P	2,970	4			
132	0	653	0					38.5		McClosky; MisL	L	P	2,980	10			
133	0	15	0														
134	0	2	0					40.0	0.15	Dev	L	P	2,465	15	D	Dev	2,480
135	0	32	3												D	Dev	2,670
136	0	24	0					36.0		Bethel; MisU	S	P	1,195	10			
137	0	8	3					28.2	0.33	Dev	L	P	2,620				
138	0	9	0					37.8	0.17	Bethel; MisU	S	P	1,410	7	D	MisU	1,450
139	0	44	0												D	Dev	2,914
140	0	10	0							Cypress; MisU	S	P	1,185	9			
141	0	34	0					32.2	0.21	Bethel; MisU	S	P	1,320	7			
142	0	2	0					36.1	0.17	Cypress; MisU	S	P	1,105	5	D	MisU	1,265
143	0	704	0												A	"Trenton"	4,070
144	0	21	0					36.4	0.20	Cypress; MisU	S	P	1,200	15			
145	0	507	0					37.7	0.17	Bethel; MisU	S	P	1,355	20			
146	0	175	0					37.4	0.38	Dev	L	P	2,860	14			
147	0	1	0					43.2	0.28	"Trenton"; Ord	L	P	4,020	40			
148	0	0	0				36.4	0.40	Aux Vases; MisU	S	P	1,825	10	A	MisU	1,873	
149	0	2	0											A	Shakopee	4,915	
150	0	0	0				44.1	0.16	Cypress; MisU	S	P	1,835	25				
151	0	1	0						Aux Vases; MisU	S	P	2,010	15				
152	0	1	0				36.6	0.29	McClosky; MisL	L	P	2,000	12				
153	0	2	0						Pen	S	P	1,170	30	A	Dev	2,760	
154	0	87	0											A	Dev	5,185	
155	0	3	0				34.0		Bridgeport; Pen	S	P	1,570	10				
156	0	13	0				34.0		Waltersburg; MisU	S	P	2,365	10				
157	0	3	0				38.0		Bethel; MisU	S	P	2,935	14				
158	0	2	0				39.0		Aux Vases; MisU	S	P	3,040	16				
159	0								Levias; MisL ²⁵	L	P	3,100	10				
160	0	59	0				40.0	0.18	McClosky; MisL	L	P	3,110	11				
161	0	7	0														
162	0	6	0														
163	0	1	0						Weiler; MisU	S	P	2,785	20	A	MisL	3,195	
164	0	3	0						Aux Vases; MisU	S	P	2,990	15				
165	0	1	0						Levias; MisL	L	P	3,090	8				
166	0								McClosky; MisL ²⁵	L	P	3,145	8				
167	0	1	0														
168	0	1	0						Aux Vases; MisU	S	P	3,055	12	A	MisU	3,260	
169	0	17	0				40.5	0.33	McClosky; MisL	L	P	3,265	8	D	MisL	3,350	

²⁵ Producing in combination wells only.²⁶ Wells producing from more than one sand, see Table 6.

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
170	Browns, Edwards.....	1943	20	4,000	4,000		0	0	1	1	0
171	Browns South, Edwards.....	1943	20	500	500		0	0	1	1	0
172	Cowling, Edwards.....	1939	100	297,000	20,000		0	0	13	0	1
173	Ellery North, Edwards.....	1942 ²⁹	20	3,000	2,000		0	0	1	0	1
174	Ellery South, Edwards.....	1943	80	7,000	7,000		0	0	2	2	0
175	Maple Grove, Edwards.....	1943	460	224,000	224,000		0	0	13	13	3
176	Samsville, Edwards.....	1942 ³⁰	20	x	x		0	0	1	0	0
177	Lancaster West, Edwards, Wabash.....	1943	40	48,000	48,000		0	0	2	2	0
178			x	x	x		0	0	1	1	0
179			x	x	x		0	0	1	1	0
180	Bennington, Edwards, Wayne.....	1943	40	12,000	12,000		0	0	2	2	0
181	Ellery, Edwards, Wayne.....	1941	40	30,000	8,000		0	0	2	0	0
182	Grayville, Edwards, White.....	1939	160	438,000	296,000		0	0	20	0	0
183	Grayville West, Edwards, White.....	1941	30	40,000	17,000		0	0	3	0	0
184			10	x	x		0	0	1	0	0
185			20	x	x		0	0	2	0	0
186	Hill, Effingham.....	1943	40	9,000	9,000		0	0	2	2	0
187	Mason, Effingham.....	1940	100	160,000	17,000		0	0	9	0	1
188	Mason South, Effingham.....	1941	500	434,000	254,000		0	0	42	20	1
189			x	x	x		0	0	19	4	1
190			x	x	x		0	0	3	3	0
191			x	x	x		0	0	3	3	0
192			x	x	x		0	0	3	2	0
193			x	x	x		0	0	14	8	0
194	Bible Grove, Effingham, Clay.....	1942	1,710	1,039,000	749,000		0	0	68	35	1
195			x	x	x		0	0	60	34	1
196			x	x	x		0	0	8	1	0
197	Louden, Effingham, Fayette.....	1937	20,650	101,336,000	13,651,000		0	0	1,986	16	11
198			20,080	x	x		0	0	948	6	6
199			11,000	x	x		0	0	323	0	2
200			7,010	x	x		0	0	420	1	2
201			3,130	4,263,000	792,000		0	0	84	9	1
202									211	0	0
203	La Clede, Fayette.....	1943	40	500	500		0	0	1	1	0
204	St. James, Fayette.....	1938	1,900	6,783,000	1,128,000		0	0	191	1	1
205	St. Paul, Fayette.....	1941	170	175,000	90,000		0	0	13	0	0
206	Akin, Franklin.....	1942	140	141,000	105,000		0	0	7	4	0
207			x	x	x		0	0	3	0	0
208			x	x	x		0	0	3	3	0
209			x	x	x		0	0			
210									1	1	0
211	Benton, Franklin.....	1941	2,020	14,710,000	2,334,000		0	0	234	3	0
212	Benton North, Franklin.....	1941	110	199,000	70,000		0	0	12	1	0
213			x	x	x		0	0	3	0	0
214			x	x	x		0	0	2	0	0
215			x	x	x		0	0	2	0	0
216			x	x	x		0	0	1	0	0
217			x	x	x		0	0	1	0	0
218			x	x	x		0	0	2	0	0
219									1	1	0
220	Bessie, Franklin.....	1943	20	8,000	8,000		0	0	1	1	0
221	Sesser, Franklin.....	1942	40	31,000	13,000		0	0	3	0	0
222	Thompsonville, Franklin.....	1940	220	241,000	19,000		0	0	19	0	5
223	Valier, Franklin.....	1942	20	1,000	500		0	0	1	0	0
224	West Frankfort, Franklin.....	1941	60	137,000	137,000		0	0	10	7	0
225			x	x	x		0	0	9	7	0
226			x	x	x		0	0	1	0	0
227	West Frankfort South, Franklin.....	1943	100	52,000	52,000		0	0	8	8	0
228			x	x	x		0	0	6	6	0
229			x	x	x		0	0	2	2	0
230	Whittington, Franklin.....	1939	40	29,000	8,000		0	0	2	1	0
231			x	x	x		0	0	1	1	0
232			x	x	x		0	0	1	0	0

²⁹ Abandoned 1943.³⁰ Abandoned 1942.

TABLE I.—(Continued)

Line Number	Wells Producing ^o Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ⁱ		Producing Formation						Deepest Zone Tested ^p to End of 1943		
	Flowing	Artificial Lift	Gas	Initial	Avg./End 1943	Secondary Recovery ^a	Gravity A.P.L. at 60° F.	Sulphur, Per Cent	Name and Age ^j	Character ^k	Porosity, Per Cent ^l	Depth to Top of Producing Zone, Ft. ^m	Productive Thickness, Avg. Ft., ⁿ Net	Structure ^o	Name	Depth of Hole, Ft.
170	0	1	0	s	s		s	s	Cypress; MisU	S	P	2,690	15	A	MisL	3,115
171	0	11	0	s	s		s	s	Bethel; MisU	S	P	2,835	18	A	MisL	3,140
172	0	11	0	s	s		36.6	0.23	Cypress; MisU	S	P	2,620	12	D	MisL	3,175
173	0	0	0	s	s		37.6	0.19	McClosky; MisL	L	P	3,420	7	A	MisL	3,495
174	0	2	0	s	s		s	s	McClosky; MisL	L	P	3,305	11	A	MisL	3,355
175	0	10	0	s	s		s	s	McClosky; MisL	L	P	3,270	8	A	MisL	3,300
176	0	0	0	s	s		s	s	Waltersburg; MisU	S	P	2,405	4	A	MisL	3,295
177	0	2	0	s	s		s	s						A	MisL	2,875
178	0	1	0	s	s		s	s	Levias; MisL	L	P	2,855	8			
179	0	1	0	s	s		s	s	Rosiclare; MisL	S	P	2,860	8			
180	0	2	0	s	s		s	s	Aux Vases; MisU	S	P	3,150	20	A	MisL	3,350
181	0	2	0	s	s		39.1	s	McClosky; MisL	L	P	3,340	12	D	MisL	3,355
182	0	15	0	s	s		35.8	0.31	McClosky; MisL	L	P	3,095	6	A	MisL	3,270
183	0	2	0	s	s									D	MisL	3,275
184	0	1	0	s	s		37.0	s	Cypress; MisU	S	P	2,870	20			
185	0	1	0	s	s		s	s	McClosky; MisL	L	P	3,170	8			
186	0	2	0	s	s		s	s	McClosky; MisL	L	P	2,570	9	A	MisL	2,655
187	0	8	0	s	s		38.4	0.21	McClosky; MisL	L	P	2,490	7	A	MisL	2,525
188	0	41	0	s	s									A	MisL	2,460
189	0	13	0	s	s		38.0	s	Bethel; MisU	S	P	2,305	11			
190	0	3	0	s	s		s	s	Aux Vases; MisU	S	P	2,360	14			
191	0	3	0	s	s		s	s	Rosiclare; MisL	S	P	2,435	8			
192	0	3	0	s	s		38.4	0.21	McClosky; MisL ²⁵	L	P	2,450	7			
193	0	14	0	s	s											
194	0	66	0	s	s		38.0	0.13	Weiler; MisU	S	P	2,490	14	D	MisL	2,970
195	0	58	0	s	s		36.2	s	McClosky; MisL	L	P	2,810	7			
196	0	8	0	s	s									A	St. Peter	4,680
197	185	1,766	0			P										
198	35	907	0	s	268±		36.6	0.25	Cypress; MisU	S	P	1,495	22			
199	1	320	0	s	315±		37.8	0.24	Paint Creek; MisU	S	P	1,530	15			
200	1	413	0	s	319±		38.5	0.20	Bethel; MisU	S	P	1,550	16			
201	23	60	0	s	1,268		28.2	0.48	Dev	L	P	3,000	15			
202	125	66	0	s												
203	0	1	0	s	s		x	x	Bethel; MisU	S	P	2,335	20	A	MisU	2,360
204	0	183	0	s	s		34.4	0.31	Cypress; MisU	S	P	1,580	16	A	Dev	3,375
205	0	13	0	s	s		34.0	0.23	Bethel; MisU	S	P	1,885	6	D	MisU	1,905
206	3	7	0	s	s					A				A	MisL	3,280
207	0	3	0	s	s		32.0	x	Cypress; MisU	S	P	2,840	10			
208	0	3	0	s	s		37.8	0.12	Aux Vases; MisU	S	P	3,120	15			
209	0		0	s	s		x	x	McClosky; MisL ²⁶	L	P	3,270	9			
210	0	1	0	s	s											
211	0	232	0	s	s		41.7	0.12	Tar Springs; MisU	S	P	2,100	34	A	MisL	3,205
212	0	12	0	s	s					D				MisL		2,890
213	0	3	0	s	s		x	x	Paint Creek; MisU	S	P	2,595	10			
214	0	2	0	s	s		38.4	0.15	Bethel; MisU	S	P	2,605	10			
215	0	2	0	s	s		39.0	0.15	Aux Vases; MisU	S	P	2,690	10			
216	0	1	0	s	s		37.4	0.17	Levias; MisL	L	P	2,745	8			
217	0	1	0	s	s		38.4	0.15	Rosiclare; MisL	S	P	2,780	7			
218	0	2	0	s	s		x	x	McClosky; MisL	L	P	2,783	5			
219	0	1	0	s	s											
220	0	1	0	s	s		38.8	0.15	Levias; MisL	L	P	3,020	11	A	MisL	3,460
221	0	3	0	s	s		39.2	0.17	Aux Vases; MisU	S	P	2,700	7	D	MisL	2,925
222	0	10	0	s	s		37.8	0.16	McClosky; MisL	L	P	3,120	10	A	MisL	3,135
223	0	1	0	s	s		x	x	McClosky; MisL	L	P	2,715	12	A	MisL	2,725
224	0	10	0	s	s					D				MisL		2,995
225	0	9	0	s	s		38.4	0.13	Tar Springs; MisU	S	P	2,055	14			
226	0	1	0	s	s		x	x	Aux Vases; MisU	S	P	2,700	15			
227	0	8	0	s	s					A				MisL		2,930
228	0	6	0	s	s		x	x	Tar Springs; MisU	S	P	2,040	15			
229	0	2	0	s	s		37.2	0.23	Levias; MisL	L	P	2,765	8			
230	0	2	0	s	s					D				MisL		3,115
231	0	1	0	s	s		x	x	Cypress; MisU	S	P	2,540	15			
232	0	1	0	s	s		37.6	0.24	McClosky-St. Louis; MisL	L	P	2,870	9			

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
233	Inman, Gallatin.....	1940	60	47,000	19,000		0	0	8	3	0
234			x	x	x		0	0	3	1	0
235			x	x	x		0	0	2	1	0
236			x	x	x		0	0	2	1	0
237			x	x	x		0	0	1	0	0
238	Inman East, Gallatin.....	1940	810	1,692,000	710,000		0	0	81	20	1
239			x	x	x		0	0	3	0	0
240			x	x	x		0	0			
241			x	x	x		0	0			
242			x	x	x		0	0	1	1	0
243			x	x	x		0	0	6	3	0
244			x	x	x		0	0	44	7	1
245			x	x	x		0	0			
246			x	x	x		0	0	10	2	0
247			x	x	x		0	0	4	1	0
248			x	x	x		0	0	13	6	0
249	Inman North, Gallatin.....	1941	50	10,000	1,000		0	0	3	0	2
250			x	x	x		0	0	1	0	1
251			x	x	x		0	0	2	0	1
252	Inman West, Gallatin.....	1942	275	205,000	173,000		0	0	20	15	0
253			x	x	x		0	0	1	1	0
254			x	x	x		0	0	13	8	0
255			x	x	x		0	0			
256									6	6	0
257	Junction, Gallatin.....	1939	150	192,000	15,000		0	0	14	0	0
258	Omaha, Gallatin.....	1940	260	809,000	183,000		x	x	21	0	0
259			x	x	x		0	0	17	0	0
260			x	x	x		x	x	4	0	0
261	Belle Prairie, Hamilton.....	1940	40	86,000	27,000		0	0	2	0	0
262	Blairsville, Hamilton.....	1942	650	658,000	603,000		0	0	24	14	0
263			x	x	x		0	0	18	8	0
264			x	x	x		0	0	1	1	0
265			x	x	x		0	0			
266			x	x	x		0	0	3	3	0
267									2	2	0
268	Bungay, Hamilton.....	1941	410	106,000	100,000		0	0	13	12	0
269	Dahlgren, Hamilton.....	1941	540	862,000	54,000		0	0	42	0	4
270	Dale-Hoodville Consolidated, Hamilton.....	1940	4,640	16,108,000	3,882,000		0	0	402	38	10
271					x		0	0	21	21	0
272			x	x	x		0	0	37	2	0
273			x	x	x		0	0	87	0	5
274			x	x	x		0	0	185	13	5
275			x	x	x		0	0	2	1	0
276			x	x	x		0	0	24	0	0
277									46	1	0
278	Rural Hill, Hamilton.....	1941	2,535	7,052,000	1,711,000		0	0	195	23	1
279			x	x	x		0	0	1	0	0
280			x	x	x		0	0	94	16	1
281			x	x	x		0	0	12	4	0
282			x	x	x		0	0	2	2	0
283			x	x	x		0	0	25	0	0
284									61	1	0
285	Walpole, Hamilton.....	1941	1,100	1,811,000	900,000		0	0	58	25	0
286			x	x	x		0	0	2	1	0
287			x	x	x		0	0	56	24	0
288	Elkville, Jackson.....	1941	10	2,000	1,000		0	0	1	0	0
289	Bogota, Jasper.....	1943	125	53,000	53,000		0	0	6	6	0
290	Boos North, Jasper.....	1940	1,075	2,245,000	596,000		0	0	63	3	1
291	Hidalgo, Jasper.....	1940 ¹	20	10,000	1,000		0	0	1	0	1
292	Ste. Marie, Jasper.....	1941	430	428,000	98,000		0	0	20	0	2
293	Belle Rive, Jefferson.....	1943	100	70,000	70,000		0	0	5	5	0
294	Coil West, Jefferson.....	1942	100	36,000	35,000		0	0	4	3	0
295	Cravat, Jefferson.....	1939	100	195,000	29,000		0	0	11	0	0
296	Divide, Jefferson.....	1943	110	26,000	26,000		0	0	3	3	0

¹ Abandoned 1943.

TABLE I.—(Continued)

Line Number	Wells Producing ⁷ Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ¹		Producing Formation						Deepest Zone Tested ⁶ to End of 1943			
	Oil			Initial	Avg./End 1943	Secondary Recovery ⁴	Gravity A.P.I. at 60°F.	Sulphur, Per Cent	Name and Age ²	Character ³	Porosity, Per Cent ¹	Depth to Top of Producing Zone, Ft. ²	Productive Thickness, Avg. Ft., ² Net	Structure ⁵	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift	Gas														
233	0	8	0												D	MisL	3,010
234	0	3	0	z	z		36.0	z	Palestine; MisU	S	P	1,830	10				
235	0	2	0	z	z		z	z	Waltersburg; MisU	S	P	1,990	10				
236	0	2	0	z	z		z	z	Aux Vases; MisU	S	P	2,745	13				
237	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,730	10				
238	0																
239	0	80	0	z	z		24.4	0.31	Pen	S	P	780	12	A	MisL	2,915	
240	0	3	0	z	z		z	z	Degonia; MisU ²⁵	S	P	1,690	5				
241				z	z		z	z	Clore; MisU ²⁵	L	P	1,725	12				
242	0	1	0	z	z		z	z	Palestine; MisU	S	P	1,840	13				
243	0	6	0	z	z		z	z	Waltersburg; MisU	S	P	1,980	23				
244	0	43	0	z	z		34.6	0.24	Tar Springs; MisU	S	P	2,080	15				
245				z	z		z	z	Hardinsburg; MisU ²⁵	S	P	2,135	8				
246	0	10	0	z	z		35.2	0.23	Cypress; MisU	S	P	2,430	10				
247	0	4	0	z	z		z	z	McClosky; MisL	L	P	2,805	10				
248	0	13	0														
249	0	1	0											D	MisL	3,020	
250	0	0	0	z	z		z	z	Aux Vases; MisU	S	P	2,815	25				
251	0	1	0	z	z		36.6	0.19	McClosky; MisL	L	P	2,850	15				
252	0	20	0											D	MisL	2,990	
253	0	1	0	z	z		z	z	Tar Springs; MisU	S	P	2,175	13				
254	0	13	0	z	z		38.0	z	Weller; MisU	S	P	2,480	17				
255				z	z		z	z	McClosky; MisL ²⁵	L	P	2,875	8				
256	0	6	0														
257	0	14	0	z	z		37.2	0.22	Waltersburg; MisU	S	P	1,765	15	D	MisL	2,710	
258	0	20	1											D	MisL	3,580	
259	0	17	0	z	z		25.9	0.23	Palestine; MisU	S	P	1,690	20				
260	0	3	1	z	z		27.0	0.24	Tar Springs; MisU	S	P	1,880	10				
261	0	2	0	z	z		37.0	0.12	McClosky; MisL	L	P	3,465	6	D	MisL	3,580	
262	0	24	0											D	MisL	3,530	
263	0	18	0	z	z		38.1	z	Aux Vases; MisU	S	P	3,290	12				
264	0	1	0	z	z		z	z	Levias; MisL	L	P	3,340	10				
265				z	z		z	z	Rosiclare; MisL ²⁵	S	P	3,365	7				
266	0	3	0	z	z		38.6	0.13	McClosky; MisL	S	P	3,440	7				
267	0	2	0														
268	0	13	0	z	z		36.8	0.24	Aux Vases; MisU	S	P	3,275	15	D	MisL	3,515	
269	0	36	0	z	z		38.7	0.18	McClosky; MisL	L	P	3,337	10	A	MisL	3,380	
270	1	390	0			P								D	MisL	3,314	
271	0	21	0	z	z		z	z	Tar Springs; MisU	S	P	2,430	6				
272	0	37	0	z	z		37.6	0.25	Cypress; MisU	S	P	2,680	18				
273	0	82	0	z	z		39.0	0.19	Bethel; MisU	S	P	2,890	20				
274	1	179	0	z	z		38.5	0.39	Aux Vases; MisU	S	P	2,970	30				
275	0	2	0	z	z		36.0	0.20	Levias; MisL	S	P	3,140	13				
276	0	23	0	z	z		39.0	z	McClosky; MisL	L	P	3,150	10				
277	0	46	0														
278	0	193	0											A	MisL	3,450	
279	0	1	0	z	z		z	z	Cypress; MisU	S	P	2,705	22				
280	0	92	0	z	z		38.0	0.15	Aux Vases; MisU	S	P	3,135	25				
281	0	12	0	z	z		z	z	Levias; MisL	L	P	3,200	30				
282	0	2	0	z	z		38.6	z	Rosiclare; MisL	S	P	3,230	15				
283	0	25	0	z	z		38.6	0.19	McClosky; MisL	L	P	3,260	22				
284	0	61	0														
285	0	58	0											A	MisL	3,300	
286	0	2	0	z	z		36.1	z	Tar Springs; MisU	S	P	2,465	8				
287	0	56	0	z	z		38.4	0.13	Aux Vases; MisU	S	P	3,050	30				
288	0	1	0	z	z		35.8	0.22	Paint Creek; MisU	S	P	2,000	11	D	MisL	2,387	
289	0	6	0	z	z		z	z	McClosky; MisL	S	P	3,110	11	A	MisL	3,210	
290	0	60	0	z	z		38.6	0.20	McClosky; MisL	L	P	2,790	8	A	MisL	2,950	
291	0	0	0	z	z		38.6	0.20	McClosky; MisL	L	P	2,560	8	N	Dev	4,140	
292	0	18	0	z	z		40.2	0.14	McClosky; MisL	L	P	2,825	8	A	MisL	2,985	
293	0	5	0	z	z		39.4	0.15	McClosky; MisL	L	P	3,080	11	A	MisL	3,095	
294	0	4	0	z	z		z	z	Levias-McClosky; MisL	L	P	2,790	16	A	MisL	2,980	
295	0	11	0	z	z		35.4	0.23	Bethel; MisU	S	P	2,065	11	D	MisL	2,355	
296	0	3	0	z	z		z	z	McClosky; MisL	L	P	2,725	9	A	MisL	2,880	

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
297	Elk Prairie, Jefferson.....	1938 ³²	10	700	0		0	0	1	0	0
298	Ina, Jefferson.....	1938 ³³	20	16,000	500		0	0	2	1	0
299	King, Jefferson.....	1942	1,100	289,000	258,000		0	0	23	18	0
300			x	x	x		0	0	16	13	0
301			x	x	x		0	0			
302			x	x	x		0	0			
303			x	x	x		0	0	1	1	0
304			x	x	x		0	0			
305	Marcoe, Jefferson.....	1938 ³⁴	20	12,500	0		0	0	6	4	0
306	Markham City, Jefferson.....	1942	320	576,000	416,000		0	0	17	5	0
307			x	x	x		0	0			
308			x	x	x		0	0	16	5	0
309			x	x	x		0	0	1	0	0
310	Markham City North, Jefferson.....	1943	150	75,000	75,000		0	0	7	7	0
311	Mt. Vernon, Jefferson.....	1943	100	20,000	20,000		0	0	5	5	0
312			x	x	x		0	0	3	3	0
313			x	x	x		0	0	1	1	0
314			x	x	x		0	0			
315			x	x	x		0	0	1	1	0
316	Nason, Jefferson.....	1943	20	500	500		0	0	1	1	0
317	Roaches, Jefferson.....	1938	160	428,000	40,000		0	0	11	1	2
318	Waltonville, Jefferson.....	1943	20	5,000	5,000		0	0	1	1	0
319	Woodlawn, Jefferson.....	1940	1,320	6,967,000	1,436,000		0	0	162	14	1
320			x	x	x		0	0	1	1	0
321			x	x	x		0	0	161	13	1
322	Dix, Jefferson, Marion.....	1938	1,510	3,541,000	530,000		0	0	84	3	1
323			x	x	x		0	0	83	3	1
324			x	x	x		0	0	1	0	0
325	Kell, Jefferson, Marion.....	1942	10	1,000	x		0	0	1	0	0
326	Beman, Lawrence.....	1942	20	2,000	2,000		0	0	1	0	0
327	Ruark, Lawrence.....	1941	10	2,000	1,500		0	0	1	0	0
328	Russellville gas, Lawrence.....	1937	1,720	0	0	5,526	1,236	59	5	0	0
329			270	0	0	x	x	16	5	0	0
330			1,650	0	0	x	x	43	0	0	0
331	St. Francisville East, Lawrence.....	1941	90	80,000	33,000		0	0	9	0	0
332	Carlinville North, Macoupin.....	1941	30	500	200		0	0	3	0	0
333	Plainview, Macoupin.....	1942	10	800	300		0	0	1	0	0
334	Marine, Madison.....	1943	120	18,000	18,000		0	0	4	4	0
335	St. Jacob, Madison.....	1942	1,040	685,000	424,000		0	0	33	10	0
336	Alma, Marion.....	1941	20	39,000	12,000		0	0	4	1	1
337	Exchange, Marion.....	1943	80	8,000	8,000		0	0	2	2	0
338	Patoka, Marion.....	1937	910	3,137,000	298,000		0	0	133	3	6
339			890	x	x		0	0	129	2	6
340			30	x	x		0	0	3	0	0
341			40	x	x		0	0	1	1	0
342	Patoka East, Marion.....	1941	430	1,813,000	470,000		0	0	59	3	1
343			x	x	x		0	0	54	3	1
344			x	x	x		0	0	5	0	0
345			x	x	x		0	0	1	1	0
346	Salem, Marion.....	1938	9,270	177,241,000	10,659,000		0	0	2,444	26	0
347			9,270	x	x		0	0	481	21	0
348			x	x	x		0	0	152	0	0
349			x	x	x		0	0	5	4	0
350			x	x	x		0	0	551	1	0
351			x	x	x		0	0	8	0	0
352			5,000	33,738,000	917,000		0	0	541	0	0
353			1,000	2,049,000	336,000		0	0			
354									706	0	0
355	Tonti, Marion.....	1939	430	6,278,000	689,000		0	0	58	3	0
356			x	x	x		0	0	5	0	0
357			x	x	x		0	0	15	0	0
358			x	x	x		0	0	31	2	0
359			x	1,466,000	88,000		0	0	6	0	0
360									1	1	0

³² Abandoned 1940.³³ Abandoned 1941.³⁴ Abandoned 1941.

TABLE I.—(Continued)

Line Number	Wells Producing Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ¹		Producing Formation					Deepest Zone Tested ² to End of 1943			
	Oil		Gas	Initial	Avg./End 1943	Secondary Recovery ⁴	Gravity A.P.L. at 60°F.	Sulphur, Per Cent	Name and Age ³	Character ⁵ , Porosity, Per Cent ⁶	Depth to Top of Producing Zone, Ft. ⁷	Productive Thickness, Avg. Ft., ⁸ Net	Structure ⁹	Name	Depth of Hole, Ft.	
	Flowing	Artificial Lift														
297	0	0	0	x	x		x	x	McClosky; MisL	L	P	2,720	7	D	MisL	2,960
298	0	1	0	x	x		36.4	0.20	St. Louis; MisL	L	P	3,000	5	D	MisL	3,065
299	0	23	0	x	x									A	Dev	4,760
300	0	16	0	x	x		38.6	0.17	Aux Vases; MisU	S	P	2,740	22			
301				x	x		x	x	Levias; MisL ²⁵	L	P	2,770	11			
302	0	1	0	x	x		39.6	0.16	Rosiclare; MisL	S	P	2,815	10			
303				x	x		x	x	McClosky; MisL ²⁶	L	P	2,840	7			
304	0	6	0	x	x											
305	0	0	0	x	x		23.2	0.54	McClosky; MisL	L	P	2,745	11	D	MisL	3,066
306	0	17	0	x	x									A	MisL	3,215
307				x	x		x	x	Levias; MisL ²⁵	L	P	3,060	5			
308	0	16	0	x	x		38.2	0.08	McClosky; MisL ²⁶	L	P	3,065	5			
309	0	1	0	x	x											
310	0	7	0	x	x		x	x	McClosky; MisL	L	P	3,115	7	A	MisL	3,130
311	0	5	0	x	x									A	MisL	2,905
312	0	3	0	x	x		x	x	Aux Vases; MisU	S	P	2,685	9			
313	0	1	0	x	x		x	x	McClosky; MisL	L	P	2,800	7			
314				x	x		x	x	Levias; MisL ²⁵	L	P	2,750	6			
315	0	1	0	x	x											
316	0	1	0	x	x		x	x	Rosiclare; MisL	S	P	2,765	7	A	MisL	2,805
317	0	9	0	x	x		37.0	0.22	Rosiclare-McClosky; MisL	L	P	2,185	22	D	Dev	3,840
318	0	1	0	x	x		37.8	0.14	Bethel; MisU	S	P	2,465	12	A	MisL	2,765
319	0	159	0	x	x									A	MisL	2,365
320	0	1	0	x	x		x	x	Cypress; MisU	S	P	1,730	11			
321	0	158	0	x	x		37.8	0.16	Bethel; MisU	S	P	1,960	24			
322	0	83	0	x	x											
323	0	82	0	x	275		39.0	0.23	Bethel; MisU	S	P	1,950	13	A	Dev	3,650
324	0	1	0	x	x		x	x	Rosiclare; MisL	S	P	2,100	8			
325	0	1	0	x	x		36.2	0.26	McClosky; MisL	L	P	2,625	2	A	MisL	2,720
326	0	1	0	x	x		x	x	McClosky; MisL	L	P	1,835	6	A	MisL	1,845
327	0	1	0	x	x		32.0	x	Buchanan; Pen	S	P	1,515	14	D	MisL	2,320
328	0	058		x	x									A	Dev	3,133
329	0	016	x	x	x				Bridgeport; Pen	S	P	760	15			
330	0	042	x	x	x				Buchanan; Pen	S	P	1,110	11			
331	0	9	0	x	x		39.8	0.21	Bethel; MisU	S	P	1,765	8	A	MisL	1,960
332	0	3	0	x	x		20.3	0.35	Pen	S	P	495	10	D	Pen	530
333	0	1	0	x	x		x	x	Pen	S	P	400	5	A	Pen	420
334	0	4	0	x	x		x	x	Sil	L	P	1,735		A	Ord	2,590
335	0	23	0	x	x		40.0	0.23	"Trenton"; Ord	L	P	2,280	30	A	Ord	2,485
336	0	2	0	x	x		37.1	x	Bethel-Rosiclare; MisU-L	S	P	1,930	21	A	Dev	3,662
337	0	2	0	x	x		x	x	McClosky; MisL	L	P	2,735	8	A	MisL	2,765
338	0	102	0	x	x									A	Dev	2,955
339	0	98	0	x	30		39.5	0.16	Bethel; MisU	S	P	1,425	25			
340	0	3	0	x	50		40.9	0.31	Rosiclare; MisL	S	P	1,560	10			
341	0	1	0	x	x		40.0	0.28	Dev	L	P	2,835	10			
342	0	58	0	x	x											
343	0	53	0	x	x		36.1	0.23	Cypress; MisU	S	P	1,340	20	A	MisL	1,740
344	0	5	0	x	x		36.1	0.23	Bethel; MisU ²⁶	S	P	1,465	12			
345	0	1	0	x	x											
346	0	2,408	0	x	x											
347	0	468	0	x	x		38.5	0.20	Bethel; MisU	S	P	1,795	40	A	Prairie du Chien	5,655
348	0	145	0	x	x		38.6	0.21	Aux Vases; MisU	S	P	1,815	28			
349	0	5	0	x	x		39.0	x	Rosiclare; MisL	S	P	1,950	5			
350	0	530	0	x	x		39.0	x	McClosky; MisL	L	P	1,975	17			
351	0	8	0	x	x		39.0	x	Salem; MisL	L	P	2,155	17			
352	0	454	0	x	x		42.1	0.28	Dev	L	P	3,350	60			
353	0	99	0	x	x		42.0	x	"Trenton"; Ord ²⁶	L	P	4,500	50			
354	0	699	0	x	x											
355	0	57	0	x	x									D	Dev	3,550
356	0	5	0	x	x		39.0	x	Bethel; MisU	S	P	1,930	20			
357	0	15	0	x	x		39.0	x	Aux Vases; MisU	S	P	2,005	30			
358	0	30	0	x	x		39.4	0.21	McClosky; MisL	L	P	2,135	15			
359	0	6	0	x	x		41.0	x	Dev ²⁶	L	P	3,490	15			
360	0	1	0	x	x											

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
361	Fairman, Marion, Clinton.....	1939	490	905,000	164,000	0	0	25	0	0	
362	Mt. Olive, Montgomery.....	1942	20	2,000	1,500	0	0	2	1	1	
363	Raymond, Montgomery.....	1940	60	3,500	1,500	0	0	4	1	1	
364	Waggoner, Montgomery.....	1940	40	5,500	1,500	0	0	4	0	0	
365	Tamaroa, Perry.....	1942	50	3,000	1,000	0	0	3	0	0	
366	Amity, Richland.....	1942	20	3,000	2,000	0	0	1	0	0	
367	Bonpas, Richland.....	1941	40	63,000	18,000	0	0	1	0	0	
368	Bonpas West, Richland.....	1941	260	101,000	20,000	0	0	12	2	2	
369			10	x	x	0	0	1	0	0	
370			10	x	x	0	0	1	0	0	
371			140	x	x	0	0	10	2	2	
372	Noble, Richland.....	1937	4,650	17,167,000	2,509,000	x	x	307	16	0	
373			x	x	x	0	0	129	15	0	
374			x	x	x	0	0	178	1	0	
375	Olney, Richland.....	1937	585	1,370,000	152,000	x	x	42	3	4	
376			x	x	x	0	0	1	1	0	
377			x	x	x	0	0	41	2	4	
378	Schnell, Richland.....	1938	160	275,000	101,000	0	0	11	7	0	
379	Stringtown, Richland.....	1941	140	159,000	43,000	0	0	8	0	0	
380	Parkersburg, Richland, Edwards.....	1941	710	2,783,000	674,000	0	0	36	0	0	
381			x	x	x	0	0	1	0	0	
382			x	x	x	0	0	35	0	0	
383	Parkersburg West, Richland, Edwards.....	1943	80	11,000	11,000	0	0	2	2	0	
384	Dundas Consolidated, Richland, Jasper.....	1939	6,580	10,406,000	964,000	0	0	281	2	9	
385			100	x	x	0	0	5	1	0	
386			20	x	x	0	0	2	0	0	
387			x	x	x	0	0				
388			6,500	x	x	0	0				
389			100	x	x	0	0	269	1	9	
390	Dundas East, Richland, Jasper.....	1942	360	430,000	317,000	0	0	14	3	1	
391	Eldorado, Saline.....	1941	40	6,000	2,000	0	0	2	0	0	
392	Lakewood, Shelby.....	1941	20	23,000	7,000	0	0	2	0	0	
393			10	x	x	0	0	1	0	0	
394			10	x	x	0	0	1	0	0	
395	Stewardson, Shelby.....	1939	70	40,000	9,000	0	0	5	2	2	
396	Friendsville, Wabash.....	1942	320	143,000	133,000	0	0	29	22	1	
397			x	x	x	0	0	9	6	0	
398			x	x	x	0	0	1	1	0	
399			x	x	x	0	0	9	6	1	
400			x	x	x	0	0	2	1	0	
401			x	x	x	0	0	5	5	0	
402			x	x	x	0	0	1	1	0	
403			x	x	x	0	0	2	2	0	
404	Keensburg Consolidated, Wabash.....	1939	2,725	8,908,000	1,142,000	0	0	336	6	5	
405			x	x	x	0	0	19	1	0	
406			x	x	x	0	0	2	0	0	
407			x	x	x	0	0	4	0	0	
408			x	x	x	0	0	9	0	0	
409			x	x	x	0	0	250	3	5	
410			x	x	x	0	0	1	0	0	
411			x	x	x	0	0	8	0	0	
412			x	x	x	0	0	4	0	0	
413			x	x	x	0	0	24	1	0	
414			x	x	x	0	0	15	1	0	
415	Keensburg East, Wabash.....	1939 ^{as}	20	x	x	0	0	3	0	2	
416	Maud, Wabash.....	1940	250	336,000	38,000	0	0	20	0	0	
417			x	x	x	0	0	2	0	0	
418			x	x	x	0	0	1	0	0	
419			x	x	x	0	0	1	0	0	
420			x	x	x	0	0	15	0	0	
421			x	x	x	0	0	1	0	0	

^{as} Abandoned 1943.

TABLE 1.—(Continued)

Line Number	Wells Producing ² Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ¹		Producing Formation						Deepest Zone Tested ³ to End of 1943		
	Flowing	Oil		Initial	Avg./End 1943	Secondary Recovery ⁴	Gravity A.P.I. at 60°F.	Sulphur, Per Cent	Name and Age ¹	Character ²	Porosity, Per Cent ¹	Depth to Top of Producing Zone, Ft. ²	Productive Thickness, Avg. Ft., ² Net	Structure ³	Name	Depth of Hole, Ft.
		Artificial Lift	Gas													
361	0	24	0	z	z		38.2	0.21	Bethel; MisU	z	P	1,460	8	D	"Trenton"	4,100
362	0	1	0	z	z		33.2	0.16	Pen	z	P	600	2	D	Pen	602
363	0	2	0	z	z		34.8	0.22	Pen	z	P	580	18	D	Pen	600
364	0	4	0	z	z		28.0	0.21	Pen	z	P	610	14	D	Dev	1,785
365	0	3	0	z	z		z	z	Weiler; MisU	z	P	1,125	10	A	MisL	1,530
366	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,960	7	A	MisL	3,090
367	0	1	0	z	z		37.8	0.23	McClosky; MisL	L	P	3,120	8	D	MisL	3,200
368	0	10	0	z	z		z	z	McClosky; MisL	L	P	3,120	8	D	MisL	3,200
369	0	1	0	z	z		z	z	Bethel; MisU	z	P	2,930	10			
370	0	1	0	z	z		z	z	Levias; MisL ¹	L	P	3,070	10			
371	0	8	0	z	z		38.1	z	McClosky; MisL	L	P	3,130	6			
372	0	279	1	z	z		38.0	0.27	Cypress; MisU	z	P	2,545	20	A	MisL	3,200
373	0	128	0	z	z		39.0	0.17	McClosky; MisL	L	P	2,955	10			
374	0	151	1	z	z		z	z	McClosky; MisL	L	P	2,955	10	A	MisL	3,220
375	0	33	0	z	z		z	z	Levias; MisL	L	P	3,060	8			
376	0	32	0	z	z		37.2	0.19	McClosky; MisL	L	P	3,050	9			
377	0	11	0	z	z		37.0	0.19	McClosky; MisL	L	P	3,010	6	D	MisL	3,175
378	0	8	0	z	z		39.8	0.24	McClosky; MisL	L	P	3,025	8	D	MisL	3,080
379	0	36	0	z	z		z	z	McClosky; MisL	L	P	3,025	8	A	MisL	3,200
380	0	1	0	z	z		z	z	Weiler; MisU	z	P	2,830	18			
381	0	1	0	z	z		38.0	0.31	McClosky; MisL	L	P	3,120	12			
382	0	35	0	z	z		z	z	McClosky; MisL	L	P	3,250	5	A	MisL	3,260
383	0	2	0	z	z		z	z	McClosky; MisL	L	P	3,250	5	A	Dev	4,585
384	0	268	0	z	z		37.0	z	Cypress; MisU	z	P	2,570	23			
385	0	5	0	z	z		38.0	z	Aux Vases; MisU	z	P	2,705	10			
386	0	2	0	z	z		z	z	Rosiclar; MisL ²⁵	z	P	2,845	6			
387	0	256	0	z	z		38.4	0.17	McClosky; MisL	L	P	2,870	13			
388	0	5	0	z	z		z	z	McClosky; MisL	L	P	3,000	8	A	MisL	3,105
389	0	13	0	z	z		34.2	0.14	McClosky; MisL	L	P	2,945	5	A	MisL	3,000
390	0	2	0	z	z		z	z	McClosky; MisL	L	P	2,945	5	D	MisL	1,875
391	0	2	0	z	z		29.6	z	Bethel; MisU	z	P	1,690	8			
392	0	1	0	z	z		31.7	0.23	Aux Vases; MisU	z	P	1,725	9			
393	0	1	0	z	z		37.8	0.18	Aux Vases; MisU	z	P	1,940	5	D	MisL	1,970
394	0	3	0	z	z		z	z	McClosky; MisL	L	P	2,625	10	A	MisL	2,685
395	0	27	0	z	z		31.0	0.22	Biehl; Pen	z	P	1,760	21			
396	0	8	0	z	z		27.3	0.25	Palestine; MisU	z	P	1,785	13			
397	0	1	0	z	z		35.2	0.17	Cypress; MisU	z	P	2,295	12			
398	0	8	0	z	z		36.7	0.18	Bethel; MisU	z	P	2,465	10			
399	0	2	0	z	z		z	z	Levias; MisL	L	P	2,625	10			
400	0	5	0	z	z		z	z	McClosky; MisL	L	P	2,650	11			
401	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,650	11			
402	0	2	0	z	z		z	z	McClosky; MisL	L	P	2,650	11			
403	0	315	0	z	z		38.0	z	Biehl; Pen	z	P	1,720	14	A	MisL	3,065
404	0	17	0	z	z		z	z	Clore; MisU	z	P	1,810	9			
405	0	2	0	z	z		z	z	Palestine; MisU	z	P	1,830	16			
406	0	4	0	z	z		z	z	Tar Springs; MisU	z	P	2,060	15			
407	0	9	0	z	z		38.6	0.29	Cypress; MisU	z	P	2,445	18			
408	0	232	0	z	z		z	z	Paint Creek; MisU	z	P	2,550	12			
409	0	1	0	z	z		36.6	z	Bethel; MisU	z	P	2,570	18			
410	0	8	0	z	z		z	z	Aux Vases; MisU	z	P	2,760	30			
411	0	4	0	z	z		37.9	0.38	McClosky; MisL	L	P	2,790	7			
412	0	23	0	z	z		z	z	McClosky; MisL	L	P	2,790	7			
413	0	15	0	z	z		37.6	0.26	McClosky; MisL	L	P	2,705	6	D	MisL	2,715
414	0	0	0	z	z		z	z	McClosky; MisL	L	P	2,705	6	D	MisL	2,670
415	0	17	0	z	z		37.7	z	Waltersburg; MisU	z	P	1,935	21			
416	0	2	0	z	z		z	z	MisU	z	P	2,120	12			
417	0	1	0	z	z		38.0	0.30	Rosiclar; MisL	z	P	2,640	9			
418	0	12	0	z	z		38.0	0.30	McClosky; MisL	L	P	2,650	8			
419	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,650	8			
420	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,650	8			
421	0	1	0	z	z		z	z	McClosky; MisL	L	P	2,650	8			

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
422	Mt. Carmel, Wabash.....	1940	3,025	3,610,000	871,000		0	0	286	87	4
423			x	x	x		0	0	40	10	0
424			x	x	x		0	0	1	0	0
425			x	x	x		0	0	1	0	0
426			x	x	x		0	0	182	52	4
427			x	x	x		0	0	2	1	0
428			x	x	x		0	0	2	0	0
429			x	x	x		0	0	32	9	0
430			x	x	x		0	0	26	15	0
431	Mt. Carmel West, Wabash.....	1939	60	9,000	8,000		0	0	4	2	0
432	Patton, Wabash.....	1940	40	5,000	1,500		0	0	5	1	0
433			30	x	x		0	0	4	1	0
434			20	x	x		0	0	1	0	0
435	Patton West, Wabash.....	1943	80	17,000	17,000		0	0	4	4	0
436			x	x	x		0	0	2	2	0
437			x	x	x		0	0	2	2	0
438	Lancaster, Wabash, Lawrence.....	1940	400	545,000	60,000		0	0	34	4	0
439			x	x	x		0	0	5	4	0
440			x	x	x		0	0	29	0	0
441	Cordes, Washington.....	1939	1,500	2,544,000	383,000		0	0	138	7	0
442	Dubois, Washington.....	1939	140	105,000	21,000		0	0	10	0	0
443	Dubois West, Washington.....	1942	10	4,000	2,000		0	0	1	0	0
444	Irrington, Washington.....	1940	800	2,854,000	551,000		0	0	85	2	0
445			x	x	x		0	0	2	1	0
446			x	x	x		0	0	75	1	0
447			x	x	104,000		0	0	7	0	0
448			x	x	x		0	0	1	0	0
449	McKinley, Washington.....	1940	80	167,000	31,000		0	0	7	1	1
450			50	x	x		0	0	6	1	0
451			x	x	x		0	0	1	0	1
452	Aden North, Wayne.....	1938	1,160	3,063,000	305,000		0	0	67	1	0
453			x	x	x		0	0	1	1	0
454			x	x	x		0	0	66	0	0
455	Barnhill, Wayne.....	1939	880	1,685,000	103,000		0	0	65	1	0
456			x	x	x		0	0	1	1	0
457			x	x	x		0	0	61	0	0
458			x	x	x		0	0	1	0	0
459			x	x	x		0	0	2	0	0
460	Barnhill East, Wayne.....	1939	625	266,000	231,000		0	0	19	14	2
461			x	x	x		0	0	5	3	0
462			x	x	x		0	0	1	1	0
463			x	x	x		0	0	1	0	0
464			x	x	x		0	0	9	7	2
465			x	x	x		0	0	3	3	0
466	Boyleston, Wayne.....	1938	2,480	3,484,000	461,000		0	0	117	3	4
467			x	x	x		0	0	1	1	0
468			x	x	x		0	0	1	0	0
469			x	x	x		0	0	1	0	0
470			x	x	x		0	0	111	2	4
471			x	x	x		0	0	3	0	0
472	Cisne, Wayne.....	1937	920	2,792,000	152,000		0	0	48	0	0
473			x	x	x		0	0	2	0	0
474			x	x	x		0	0	1	0	0
475			x	x	x		0	0	45	0	0
476	Cisne North, Wayne.....	1942	20	7,000	5,000		0	0	2	1	0
477	Coil, Wayne.....	1942	400	590,000	337,000		0	0	16	2	1
478			x	x	x		0	0	14	2	1
479			x	x	x		0	0	2	0	0
480	Covington, Wayne.....	1942	1,620	2,071,000	1,001,000		0	0	46	14	0
481			x	x	x		0	0	1	0	0
482			x	x	x		0	0	9	5	0
483			x	x	x		0	0	33	8	0
484			x	x	x		0	0	3	1	0
485	Covington South, Wayne.....	1943	280	51,000	51,000		0	0	7	7	0
486	Fairfield, Wayne.....	1942	20	5,000	4,000		0	0	1	0	0

TABLE 1.—(Continued)

Line Number	Wells Producing ² Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ¹		Producing Formation					Deepest Zone Tested ³ to End of 1943			
	Oil			Initial	Avg./End 1943	Secondary Recovery ⁴	Gravity A.P.I. at 60°F.	Sulphur, Per Cent	Name and Age ¹	Character ²	Porosity, Per Cent ¹	Depth to Top of Producing Zone, Ft. ²	Productive Thickness, Avg. Ft., ² Net	Structure ³	Name	Depth of Hole, Ft.
	Flowing	Artificial Lift	Gas													
422	0	276	0				32.0	x	Biehl; Pen	S	P	1,450	14	A	MisL	2,475
423	0	37	0	x	x		x	x	Palestine; MisU	S	P	1,540	10			
424	0	1	0	x	x		x	x	Tar Springs; MisU	S	P	1,790	4			
425	0	175	0	x	x		38.4	x	Cypress; MisU	S	P	2,035	15			
426	0	2	0	x	x		x	x	Bethel; MisU	S	P	2,100	15			
427	0	2	0	x	x		36.6	0.36	Rosiclar; MisL	S	P	2,360	4			
428	0	32	0	x	x		38.4	0.42	McClosky; MisL	L	P	2,370	10			
429	0	26	0				x	x								
430	0	3	0	x	x		30.0	0.25	Tar Springs; MisU	S	P	1,940	15	D	MisL	2,555
431	0	4	0	x	x		x	x						A	MisL	2,315
432	0	3	0	x	x		x	x	Biehl; Pen	S	P	1,470	15			
433	0	1	0	x	x		x	x	McClosky; MisL	L	P	2,310	4			
434	0	4	0											A	MisL	2,415
435	0	2	0	x	x		x	x	Rosiclar; MisL	S	P	2,325	6			
436	0	2	0	x	x		x	x	McClosky; MisL	L	P	2,360	9			
437	0	24	0											A	MisL	2,765
438	0	5	0	x	x		x	x	Bethel; MisU	S	P	2,535	11			
439	0	19	0	x	x		39.8	0.28	McClosky; MisL	L	P	2,685	9			
440	0	137	0	x	x		37.4	0.19	Bethel; MisU	S	P	1,260	17	A	MisL	1,550
441	0	10	0	x	x		38.0	0.26	Bethel; MisU	S	P	1,360	11	D	Dev	3,535
442	0	1	0	x	x		x	x	Bethel; MisU	S	P	1,345	6	A	MisL	1,685
443	0	84	0											A	Dev	3,150
444	0	2	0	x	x		x	x	Weiler; MisU	S	P	1,385	14			
445	0	74	0	x	x		37.6	0.16	Bethel; MisU	S	P	1,535	10			
446	0	7	0	x	x		39.0	0.27	Dev	L	P	3,090	5			
447	0	1	0													
448	0	5	0											D	Dev	2,565
449	0	5	0	x	x		44.1	0.18	Bethel; MisU	S	P	980	14			
450	0	0	0	x	x		41.7	x	Dev	L	P	2,250	4			
451	0	62	0											A	Dev	5,395
452	0	1	0	x	x				Aux Vases; MisU	S	P	3,200	15			
453	0	61	0	x	x		39.0	0.17	McClosky; MisL	L	P	3,320	12			
454	0	61	0											A	MisL	3,855
455	0	1	0	x	x		x	x	Aux Vases; MisU	S	P	3,225	14			
456	0	57	0	x	x		37.6	0.17	McClosky; MisL	L	P	3,385	11			
457	0	1	0	x	x		x	x	Salem; MisL	L	P	3,792	8			
458	0	2	0													
459	0	16	0											D	MisL	3,530
460	0	4	0	x	x		x	x	Aux Vases; MisU	S	P	3,240	12			
461	0	1	0	x	x		x	x	Levias; MisL	L	P	3,285	8			
462	0	1	0	x	x		x	x	Rosiclar; MisL	S	P	3,320	5			
463	0	7	0	x	x		34.4	0.18	McClosky; MisL	L	P	3,375	7			
464	0	3	0													
465	0	110	0											A	MisL	3,495
466	0	1	0	x	x		39.6	x	Aux Vases; MisU	S	P	3,090	12			
467	0	1	0	x	x		x	x	Levias; MisL	L	P	3,215	11			
468	0	1	0	x	x		40.2	0.14	Rosiclar; MisL	S	P	3,250	4			
469	0	104	0	x	x		40.2	0.14	McClosky; MisL	L	P	3,260	14			
470	0	3	0													
471	0	46	0											A	St. Peter	7,205
472	0	2	0	x	x		38.5	x	Aux Vases; MisU	S	P	2,980	13			
473	0	1	0	x	x		x	x	Rosiclar; MisL	S	P	3,010	4			
474	0	43	0	x	x		35.8	0.24	McClosky; MisL	L	P	3,120	15			
475	0	2	0	x	x		39.0	x	McClosky; MisL	L	P	3,170	10	A	MisL	3,245
476	0	14	0											A	MisL	3,180
477	0	12	0	x	x		37.1	0.20	Aux Vases; MisU	S	P	2,860	16			
478	0	2	0	x	x		37.5	x	McClosky; MisL	L	P	2,970	3			
479	0	46	0											D	MisL	3,325
480	0	1	0	x	x		x	x	Aux Vases; MisU	S	P	3,115	18			
481	0	9	0	x	x		40.0	x	Levias; MisL	L	P	3,210	5			
482	0	33	0	x	x		40.0	x	McClosky; MisL	L	P	3,240	8			
483	0	3	0													
484	0	7	0	x	x		39.4	0.18	McClosky; MisL	L	P	3,310	11	A	MisL	3,365
485	0	1	0	x	x		x	x	Aux Vases; MisU	S	P	3,235	14	A	MisL	3,390

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^c		Number of Oil and/or Gas Wells ^d		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
487	Geff, Wayne.....	1941	300	413,000	293,000	0	0	19	4	0	
488			x	x	x	0	0	12	0	0	
489			x	x	x	0	0	7	4	0	
490	Geff West, Wayne.....	1942	60	32,000	20,000	0	0	3	0	0	
491	Goldengate, Wayne.....	1939	60	32,000	15,000	0	0	3	0	0	
492			x	x	x	0	0	1	0	0	
493			x	x	x	0	0	2	0	0	
494	Johnsonville, Wayne.....	1941	4,120	12,867,000	2,199,000	0	0	247	0	2	
495			x	x	x	0	0	33	0	0	
496			x	x	x	0	0				
497			x	x	x	0	0	207	0	2	
498			x	x	x	0	0	7	0	0	
499	Johnsonville North, Wayne.....	1943	40	5,000	5,000	0	0	1	1	0	
500	Johnsonville South, Wayne.....	1942	20	11,000	9,000	0	0	2	0	0	
501			x	x	x	0	0	1	0	0	
502			x	x	x	0	0	1	0	0	
503	Johnsonville West, Wayne.....	1942 ³⁸	40	1,500	x	0	0	2	1	0	
504			x	x	x	0	0	1	1	0	
505			x	x	x	0	0	1	0	0	
506	Leech Township, Wayne.....	1938	240	401,000	48,000	0	0	14	0	0	
507	Mayberry, Wayne.....	1941	330	161,000	55,000	0	0	6	0	1	
508	Mt. Erie, Wayne.....	1938	380	308,000	211,000	0	0	20	9	0	
509			x	x	x	0	0	9	6	0	
510			x	x	x	0	0	1	0	0	
511			x	x	x	0	0	9	3	0	
512			x	x	x	0	0	1	0	0	
513	Mt. Erie South, Wayne.....	1939 ³⁷	360	50,000	41,000	0	0	9	7	2	
514			x	x	x	0	0	4	4	0	
515			x	x	x	0	0	2	2	0	
516			x	x	x	0	0	1	0	1	
517			x	x	x	0	0	2	1	1	
518	Rinard, Wayne.....	1937 ³⁸	20	15,000	x	0	0	2	1	1	
519			x	x	x	0	0	1	1	1	
520			x	x	x	0	0	1	0	0	
521	Sims, Wayne.....	1941	1,660	2,614,000	950,000	0	0	60	4	1	
522			x	x	x	0	0	12	2	0	
523			x	x	x	0	0				
524			x	x	x	0	0				
525			x	x	x	0	0				
526			x	x	x	0	0	30	2	1	
527	Sims North, Wayne.....	1942	720	600,000	525,000	0	0	18	0	0	
528			x	x	x	0	0	29	22	1	
529			x	x	x	0	0	20	19	1	
530			x	x	x	0	0				
531			x	x	x	0	0	3	0	0	
532			x	x	x	0	0	4	2	0	
533	Aden, Wayne, Hamilton.....	1938	880	821,000	291,000	0	0	20	10	0	
534			x	x	x	0	0	2	1	0	
535			x	x	x	0	0	1	1	0	
536			x	x	x	0	0	9	0	0	
537			x	x	x	0	0				
538			x	x	x	0	0				
539	Burnt Prairie, White.....	1940	270	380,000	53,000	0	0	10	9	0	
540			x	x	x	0	0	20	0	1	
541			x	x	x	0	0	2	0	0	
542	Calvin North, White.....	1943	210	128,000	128,000	0	0	18	0	1	
543			x	x	x	0	0	24	24	1	
544			x	x	x	0	0	13	13	1	
545			x	x	x	0	0				
546			x	x	x	0	0	1	1	0	
547			x	x	x	0	0	4	4	0	
548			x	x	x	0	0	1	1	0	
549			x	x	x	0	0	4	4	0	
								1	1	0	

³⁸ Abandoned 1942, revived 1943.³⁷ Abandoned 1941, revived 1942.³⁸ Abandoned 1941.

TABLE 1.—(Continued)

Line Number	Wells Producing ^o Dec. 1943			Reservoir Pressure, Lb. per Sq. In.		Character of Oil ⁱ		Producing Formation					Deepest Zone Tested ^r to End of 1943			
	Oil		Gas	Initial	Avg./End 1943	Secondary Recovery ^a	Gravity A.P.I. at 60° F.	Sulphur, Per Cent	Name and Age ^j	Character ^k	Porosity, Per Cent ^l	Depth to Top of Producing Zone, Ft. ^m	Productive Thickness, Avg. Ft., n Net	Structure ^e	Name	Depth of hole, Ft.
	Flowing	Artificial Lift														
487	0	19	0				40.4	0.13	Aux Vases; MisU	S	P	3,065	14	D	MisL	3,320
488	0	12	0	x	x		34.0	0.33	McClosky; MisL	L	P	3,135	3			
489	0	7	0	x	x		x	x	Aux Vases; MisU	S	P	3,130	12	D	MisL	3,320
490	0	3	0	x	x									D	Dev	5,645
491	0	1	0						Rosiclare; MisL	S	P	3,320	5			
492	0	1	0	x	x		34.4	0.18	McClosky; MisL	L	P	3,375	7			
493	0	0	0													
494	0	245	0				39.4	0.41	Aux Vases; MisU	S	P	2,980	12	A	MisL	3,390
495	0	33	0	x	x		x	x	Levias; MisL ²⁵	L	P	3,040	10			
496	0	205	0	x	x		39.4	0.16	McClosky; MisL	L	P	3,070	15			
497	0	7	0	x	x		x	x	Levias-McClosky; MisL	L	P	3,190	9	A	MisL	3,320
498	0	1	0	x	x		x	x						A	MisL	3,240
499	0	2	0	x	x		39.0	x	Aux Vases; MisU	S	P	3,030	20			
500	0	1	0	x	x		x	x	McClosky; MisL	L	P	3,210	3	A	MisL	3,185
501	0	1	0	x	x		x	x								
502	0	1	0	x	x		x	x	Aux Vases; MisU	S	P	2,970	15			
503	0	1	0	x	x		x	x	McClosky; MisL	L	P	3,105	6			
504	0	0	0	x	x		39.0	0.19	McClosky; MisL	L	P	3,415	11	D	MisL	3,485
505	0	14	0	x	x		38.0	0.16	McClosky; MisL	L	P	3,340	7	D	MisL	3,440
506	0	5	0	x	x									D	MisL	3,215
507	0	20	0				39.2	0.11	Aux Vases; MisU	S	P	2,975	17			
508	0	9	0	x	x		x	x	Rosiclare; MisL	S	P	3,070	7			
509	0	1	0	x	x		39.8	0.18	McClosky; MisL	L	P	3,080	10			
510	0	9	0													
511	0	1	0	x	x		37.2	0.14	Aux Vases; MisU	S	P	3,070	15	D	MisL	3,380
512	0	6	0	x	x		x	x	Levias; MisL	L	P	3,120	8			
513	0	4	0	x	x		x	x	Rosiclare; MisL	S	P	3,255	9			
514	0	0	0	x	x		31.7	x	McClosky; MisL	L	P	3,265	11			
515	0	0	0	x	x											
516	0	0	0	x	x		x	x	Aux Vases; MisU	S	P	2,955	15	D	MisL	3,154
517	0	0	0	x	x		38.5	x	McClosky; MisL	L	P	3,155	5	A	MisL	3,305
518	0	0	0				40.4	0.20	Aux Vases; MisU	S	P	3,030	15			
519	0	58	0	x	x		39.1	x	Levias; MisL ²⁵	L	P	3,112	5			
520	0	12	0	x	x		x	x	Rosiclare; MisL ²⁵	S	P	3,130	8			
521	0	18	0	x	x		39.1	x	McClosky; MisL	L	P	3,170	8			
522	0	28	0													
523	0	0	0	x	x		x	x	Aux Vases; MisU	S	P	3,130	10	A	MisL	3,245
524	0	18	0	x	x		x	x	Levias; MisL ²⁵	L	P	3,145	8			
525	0	27	0	x	x		x	x	Rosiclare; MisL	S	P	3,150	8			
526	0	19	0	x	x		37.5	0.19	McClosky; MisL	L	P	3,185	4			
527	0	2	0	x	x		x	x	Aux Vases; MisU	S	P	3,175	15	A	MisL	3,460
528	0	4	0	x	x		40.0	x	McClosky; MisL	L	P	3,285	7			
529	0	8	0	x	x		x	x	Levias; MisL ²⁵	L	P	3,290	5			
530	0	1	0	x	x		x	x	Rosiclare; MisL ²⁵	S	P	3,320	10			
531	0	10	0				x	x	Aux Vases; MisU	S	P	3,175	15	D	MisL	3,435
532	0	19	0	x	x		x	x	McClosky; MisL	L	P	3,425	11			
533	0	2	0	x	x		37.0	0.28	Rosiclare; MisL	S	P	3,260	9			
534	0	17	0	x	x		x	x	McClosky; MisL	L	P	3,425	11	A	MisL	3,100
535	0	23	0	x	x		30.0	0.29	Pen	S	P	1,505	15			
536	0	12	0	x	x		x	x	Palestine; MisU ²⁵	S	P	1,995	11			
537	0	1	0	x	x		x	x	Waltersburg; MisU	S	P	2,255	15			
538	0	4	0	x	x		34.0	0.30	Tar Springs; MisU	S	P	2,330	17			
539	0	1	0	x	x		38.4	0.19	Bethel; MisU	S	P	2,815	11			
540	0	4	0	x	x		x	x	Aux Vases; MisU	S	P	2,875	18			
541	0	1	0													

TABLE I.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^d	Gas Production, Millions Cu. Ft. ^e		Number of Oil and/or Gas Wells ^f		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
550	Carmi, White.....	1940	30	5,000	1,000		0	0	2	0	0
551			x	x	x		0	0	1	0	0
552			x	x	x		0	0	1	0	0
553	Carmi North, White.....	1942	50	45,000	24,000		0	0	3	0	0
554	Centerville, White.....	1940	60	187,000	31,000		0	0	5	0	0
555	Centerville East, White.....	1941	600	974,000	471,000		0	0	40	4	0
556			x	x	x		0	0	23	3	0
557			x	x	x		0	0	1	0	0
558			x	x	x		0	0	1	0	0
559			x	x	x		0	0	4	0	0
560			x	x	x		0	0			
561			x	x	x		0	0			
562			x	x	x		0	0	10	1	0
563	Concord, White.....	1942	160	28,000	20,000		0	0	1	0	0
564			x	x	x		0	0	7	6	0
565			x	x	x		0	0	3	3	0
566			x	x	x		0	0	3	2	0
567	Epworth, White.....	1941	110	156,000	56,000		0	0	1	1	0
568			x	x	x		0	0	11	1	0
569			x	x	x		0	0	2	0	0
570			x	x	x		0	0	7	0	0
571			x	x	x		0	0	1	0	0
572	Gossett, White.....	1943	40	500	500		0	0	1	1	0
573	Herald, White.....	1940	140	91,000	42,000		0	0	14	6	0
574			x	x	x		0	0	4	2	0
575			x	x	x		0	0	4	1	0
576			x	x	x		0	0	3	2	0
577			x	x	x		0	0	2	0	0
578			x	x	x		0	0	1	1	0
579	Iron, White.....	1940	770	2,701,000	311,000		0	0	64	0	2
580			x	x	x		0	0	5	0	0
581			x	x	x		0	0	33	0	1
582			x	x	x		0	0	2	0	0
583			x	x	x		0	0	1	0	0
584			x	x	x		0	0	20	0	1
585			x	x	x		0	0	3	0	0
586	Maunie, White.....	1941	60	20,000	7,000		0	0	6	4	0
587			x	x	x		0	0	1	1	0
588			x	x	x		0	0	2	0	0
589			x	x	x		0	0	2	2	0
590			x	x	x		0	0	1	1	0
591	Maunie North, White.....	1941	120	57,000	37,000		0	0	8	3	0
592			x	x	x		0	0	2	1	0
593			x	x	x		0	0			
594			x	x	x		0	0	5	1	0
595			x	x	x		0	0	1	1	0
596	Maunie South, White.....	1939	700	1,361,000	379,000		0	0	71	2	1
597			x	x	x		0	0	5	0	0
598			x	x	x		0	0	34	0	1
599			x	x	x		0	0	1	0	0
600			x	x	x		0	0	18	1	0
601			x	x	x		0	0	2	1	0
602			x	x	x		0	0	6	0	0
603			x	x	x		0	0	1	0	0
604			x	x	x		0	0	1	0	0
605			x	x	x		0	0	3	0	0
606	New Harmony Consolidated, White.....	1939	7,200	24,022,000	5,065,000		0	0	721	23	8
607			x	x	x		0	0	8	1	0
608			x	x	x		0	0	22	3	0
609			x	x	x		0	0	27	0	0
610			x	x	x		0	0	87	1	0
611			x	x	x		0	0	11	0	0
612			x	x	x		0	0	126	1	4
613			x	x	x		0	0	170	5	4
614			x	x	x		0	0	2	0	0
615			x	x	x		0	0	87	1	0
616			x	x	x		0	0	181	11	0

TABLE I.—(Continued)

Line Number	Wells Producing Dec. 1943		Reservoir Pressure, Lb. per Sq. In.		Character of Oil ¹		Producing Formation						Deepest Zone Tested ² to End of 1943			
	Flowing	Artificial Lift	Gas	Initial	Avg./End 1943	Secondary Recovery ³	Gravity A.P.L. at 60°F.	Sulphur, Per Cent	Name and Age ⁴	Character ⁵	Porosity, Per Cent ⁶	Depth to Top of Producing Zone, Ft. ⁷	Productive Thickness, Avg. Ft., Net	Structure ⁸	Name	Depth of Hole, Ft.
550	0	1	0						Levias; MisL	L	P	3,130	8	D	MisL	3,235
551	0	0	0	x	x		x	x	McClosky; MisL	L	P	3,150	4			
552	0	0	0	x	x		x	x	Aux Vases; MisU	L	P	3,230	14	D	MisU	3,250
553	0	3	0	x	x		37.0	0.14	McClosky; MisL	L	P	3,355	4	D	MisL	3,375
554	0	3	0	x	x		36.8	0.17		L	P			D	MisL	3,365
555	0	39	0	x	x				Tar Springs; MisU		P	2,530	15	D		
556	0	23	0	x	x		37.2	0.20	Cypress; MisU		P	2,915	10			
557	0	1	0	x	x		x	x	Bethel; MisU		P	2,960	14			
558	0	1	0	x	x		x	x	Aux Vases; MisU		P	3,085	11			
559	0	3	0	x	x		x	x	Levias; MisL ²⁵	L	P	3,175	5			
560	0			x	x				McClosky; MisL ²⁶	L	P	3,265	12			
561	0	10	0	x	x		40.0	x								
562	0	1	0													
563	0	7	0													
564	0	3	0	x	x		x	x	Tar Springs; MisU	x	P	2,270	19	A	MisL	3,115
565	0	3	0	x	x		x	x	Aux Vases; MisU	x	P	2,905	10			
566	0	1	0	x	x		x	x	Levias; MisL	L	P	2,930	6			
567	0	10	0													
568	0	2	0	x	x		x	x	Degonia; MisU		P	2,090	6	D	MisL	3,195
569	0	6	0	x	x		36.2	x	Clore; MisU		P	2,070	18			
570	0	1	0	x	x		x	x	Palestine; MisU		P	2,100	14			
571	0	1	0	x	x		x	x	Bethel; MisU		P	2,825	16			
572	0	1	0	x	x		x	x	McClosky; MisL	L	P	3,080	6	A	MisL	3,090
573	0	11	0											A	MisL	3,175
574	0	4	0	x	x		28.0	x	Pen		P	1,565	6			
575	0	3	0	x	x		37.2	0.24	Tar Springs; MisU		P	2,260	18			
576	0	3	0	x	x		x	x	Cypress; MisU		P	2,655	10			
577	0	0	0	x	x		x	x	Bethel; MisU		P	2,790	8			
578	0	1	0	x	x		x	x	Aux Vases; MisU		P	2,920	13			
579	0	59	0											A	MisL	3,145
580	0	4	0	x	x		36.4	x	Tar Springs; MisU	x	P	2,425	6			
581	0	31	0	x	x		38.4	0.30	Hardinsburg; MisU		P	2,535	18			
582	0	2	0	x	x		38.0	x	Cypress; MisU		P	2,710	24			
583	0	1	0	x	x		x	x	Bethel; MisU		P	2,790	8			
584	0	18	0	x	x		39.0	0.20	McClosky; MisL ²⁶	L	P	3,060	10			
585	0	3	0													
586	0	6	0													
587	0	1	0	x	x		x	x	Pen	x	P	1,305	10			
588	0	2	0	x	x		38.0	x	Palestine; MisU	x	P	2,010	6			
589	0	2	0	x	x		x	x	Tar Springs; MisU		P	2,195	15			
590	0	1	0	x	x		x	x	Aux Vases; MisU		P	2,845	14			
591	0	8	0													
592	0	2	0	x	x		36.5	x	Bethel; MisU	x	P	2,825	21	D	MisL	3,110
593	0			x	x		x	x	Aux Vases; MisU ²⁵		P	2,930	20			
594	0	5	0	x	x		x	x	McClosky; MisL ²⁶	L	P	3,075	6			
595	0	1	0													
596	0	68	0											A	MisL	3,030
597	0	5	0	x	x		37.0	x	Pen	x	P	1,455	25			
598	0	31	0	x	x		33.8	0.28	Palestine; MisU	x	P	2,020	18			
599	0	1	0	x	x		x	x	Waltersburg; MisU	x	P	2,210	19			
600	0	18	0	x	x		38.0	x	Tar Springs; MisU	x	P	2,255	15			
601	0	2	0	x	x		39.0	x	Cypress; MisU	x	P	2,560	8			
602	0	6	0	x	x		x	x	Aux Vases; MisU	x	P	2,845	22			
603	0	1	0	x	x		x	x	Levias; MisL	L	P	2,865	3			
604	0	1	0	x	x		x	x	McClosky; MisL ²⁶	L	P	2,870	2			
605	0	3	0													
606	0	707	0			P								A	MisL	3,220
607	0	8	0	x	x		x	x	Biehl; Pen	S	P	1,830	40			
608	0	21	0	x	x		37.6	0.49	Waltersburg; MisU	S	P	2,155	20			
609	0	27	0	x	x		36.0	0.19	Tar Springs; MisU	S	P	2,225	15			
610	0	87	0	x	x		39.0	x	Cypress; MisU	S	P	2,560	25			
611	0	11	0	x	x		38.0	x	Paint Creek; MisU	S	P	2,660	20			
612	0	127	0	x	x		36.0	0.24	Bethel; MisU	S	P	2,685	25			
613	0	163	0	x	x		36.4	0.19	Aux Vases; MisU	S	P	2,820	10			
614	0	2	0	x	x		x	x	Rosiclare; MisL	S	P	2,905	15			
615	0	87	0	x	x		39.2	0.20	McClosky; MisL ²⁶	L	P	2,920	8			
616	0	174	0													

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres ^b	Oil Production Total, Bbl. ^c		Producing Days, 1943 ^e	Gas Production, Millions Cu. Ft. ^c		Number of Oil and/or Gas Wells ^d		
				To End of 1943	During 1943		To End of 1943	During 1943	Completed to End of 1943	1943	
										Completed	Abandoned
617	New Harmony South, White.....	1941	60	45,000	10,000	0	0	4	0	0	
618			x	x	x	0	0	1	0	0	
619			x	x	x	0	0	1	0	0	
620			x	x	x	0	0	1	0	0	
621			x	x	x	0	0	1	0	0	
622	New Haven, White.....	1941	250	387,000	88,000	0	0	22	1	0	
623			x	x	x	0	0	4	0	0	
624			x	x	x	0	0	1	0	0	
625			x	x	x	0	0	7	0	0	
626			x	x	x	0	0	5	1	0	
627			x	x	x	0	0	1	0	0	
628			x	x	x	0	0	4	0	0	
629	Phillipstown Consolidated, White.....	1939	1,300	1,464,000	1,134,000	0	0	89	50	5	
630			x	x	x	0	0	1	1	0	
631			x	x	x	0	0	7	7	0	
632			x	x	x	0	0	4	2	0	
633			x	x	x	0	0	2	0	0	
634			x	x	x	0	0	2	0	0	
635			x	x	x	0	0	40	17	4	
636			x	x	x	0	0				
637			x	x	x	0	0	6	6	0	
638			x	x	x	0	0	2	0	0	
639			x	x	x	0	0				
640			x	x	x	0	0	3	0	0	
641			x	x	x	0	0	10	6	1	
642			x	x	x	0	0	12	11	0	
643	Stokes, White.....	1939	850	1,183,000	513,000	0	0	45	17	0	
644			x	x	x	0	0	2	2	0	
645			x	x	x	0	0	1	1	0	
646			x	x	x	0	0	7	0	0	
647			x	x	x	0	0	11	4	0	
648			x	x	x	0	0	5	4	0	
649			x	x	x	0	0	1	1	0	
650			x	x	x	0	0	12	0	0	
651			x	x	x	0	0	6	5	0	
652	Storms, White.....	1939	1,510	4,136,000	460,000	0	0	156	0	6	
653			x	x	x	0	0	152	0	6	
654			x	x	x	0	0	1	0	0	
655			x	x	x	0	0	3	0	0	
656	Roland, White, Gallatin.....	1940	1,930	4,087,000	1,104,000	0	0	148	7	4	
657			x	x	x	0	0	72	4	2	
658			x	x	x	0	0	4	0	0	
659			x	x	x	0	0	5	0	0	
660			x	x	x	0	0				
661			x	x	x	0	0	15	0	0	
662			x	x	x	0	0	19	2	1	
663			x	x	x	0	0	2	1	0	
664			x	x	x	0	0	31	0	1	
665	Mill Shoals, White.....	1939	1,215	2,976,000	412,000	0	0	115	8	5	
666			x	x	x	0	0	91	6	3	
667			x	x	x	0	0	21	2	0	
668			x	x	x	0	0	3	0	2	
669	Total for fields after Jan. 1, 1937 ³⁹		144,335	564,994,000	77,581,000	5,526	1,236	13,057	1,031	181	
670	Total for Illinois ³⁹		258,575	1,021,888,000	82,256,000	7,951	1,250	33,858	1,070	608	

³⁹ Total from U. S. Bureau of Mines monthly report.

OIL AND GAS DEVELOPMENT IN ILLINOIS IN 1943

TABLE 2.—Important Wells Drilled in Illinois in 1943

Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbl. ^a	Date of Completion of Discovery Well	Number of Wells Producing in Field Jan. 4, 1944
1 Albion East.....	Edwards	Mabee Oil and Gas, Cowling 1	SW NE SW 20-2S-14W	3,038	2,991	Aux. Vases ss.	180	8-10-43	7
2 Belle River.....	Jefferson	Mohawk Drill. Co., Waters et al. 1	C NE NE 27-3S-4E	3,089	3,078	McClosky ls.	366	1-12-43	5
3 Beman ^b	Lawrence	Bauer, Ark. Trust 1	NW NE NW 24-3N-11W	1,843	1,837	McClosky ls.	8 + 20	10-6-42	1
4 Bennington.....	Wayne, Edwards	Burr Lambert, Van Schoick 1	NW SE NW 18-1N-10E	3,173	3,137	Aux. Vases ss.	129	2-9-43	2
5 Besse.....	Franklin	Ohio Oil, U. S. Coal and Coke 1	C SE SE NW 13-6S-2E	3,459	3,431	Aux. Vases ss.	80 + 44	6-8-43	1
6 Bogota.....	Jasper	Big Chief Drill., Heap 1	C SE SE SW 28-6N-9E	3,213	3,190	McClosky ls.	152	8-17-43	6
7 Browns.....	Edwards	Superior, Lipper 1	NW NE SW 28-1S-14W	3,491	3,469	McClosky ls.	209 + 34	11-23-43	1
8 Browns South.....	Edwards	Superior, Jack 1	SE SW SE 5-2S-14W	3,142	2,830	Cypress ss.	16 + 34	11-23-43	1
9 Calvin North.....	White	N. V. Duncan, Metcalf 1	SW SW NE 31-3S-14W	2,928	2,917	Bethel ss.	70	2-16-43	23
10 Covington South.....	Wayne	Deep Rock Oil, Atkinson et al. 1A	C NE SW 12-2S-6E	2,365	2,315	McClosky ls.	223 + 14	1-12-43	7
11 Divide.....	Jefferson	Bell Bros., Indiana Nat. Bank 1	E/2 NE NE 24-1S-3E	2,381	2,323	McClosky ls.	264	10-19-43	3
12 Ellery South.....	Edwards	Deep Oil Co., Sutton 1	S/2 NW SW 32-2S-10E	3,352	3,303	McClosky ls.	416 (Flo.)	9-14-43	2
13 Exchange.....	Marion	Gulf, Floyd 1	SE SE NW 25-1N-3E	2,763	2,734	McClosky ls.	155 + 14	9-14-43	2
14 Gossett.....	White	Williams, Delap 1	SE SW NE 8-7S-8E	2,686	2,680	McClosky ls.	14	10-26-43	1
15 Hill.....	Effingham	Williams, Bushue 1	SW NW 15-6N-6E	2,653	2,571	McClosky ls.	245 + 25	10-5-43	2
16 Johnsonville North.....	Wayne	Texas Co. Hoftee 1	NE NE NE 9-1N-6E	3,222	3,192; 3,252	McClosky ls., McClosky ls.	140	11-23-43	1
17 La Cade.....	Fayette	Central Pipe Line, Littleton 1	NE SW 22-1N-4E	2,359	2,336	Bethel ss.	27 + 63	11-23-43	1
18 Lancaster West.....	Wabash, Edwards	First Nat. Petr. Trust, E. Myers 1	E/2 NE SW 11-1N-14W	2,373	2,337	McClosky ls.	961 (Flo.)	7-27-43	2
19 Maple Grove.....	Edwards	Ill. Prod. Corp., Barber 1	E/2 NE SW 11-1N-10E	3,301	3,271	McClosky ls.	83	6-26-43	14
20 Marine.....	Madison	Rockhill Oil, L. Mayer 1	SE NW SW 15-4N-6W	2,590	1,745	Shurran	14 + 3	7-20-43	4
21 Markham City North.....	Jefferson	Williams et al., Dalton Comm. 1	SE SW 13-2S-4E	3,132	3,113	Shurran ls.	517	9-28-43	7
22 Mt. Auburn.....	Christian	W. Marlow et al., C. Ralph 1	S/2 NE NE 27-1S-2W	1,905	1,900	Shurran ls.	22	3-23-43	1
23 Mt. Vernon.....	Jefferson	Magnolia Petr., Newall-Badgett 1	SE NE NE 15-3S-3E	2,693	2,684	Aux. Vases ss.	60 + 19	8-3-43	5
24 Nason.....	Jefferson	Magnolia Petr., Newall-Badgett 1	SE SE SE 34-3S-2E	2,805	2,766	Rosclaire ss.	33	12-17-43	1
25 Parkersburg West.....	Edwards, Richland	Martin, Boyd 1	S/2 SE SW 26-2N-10E	3,257	3,252	McClosky ls.	340	9-21-43	1
26 Patton West.....	Wabash	Shell, Thrapp 1	SE NW NW 29-1N-12W	2,411	2,386	Rosclaire ss., McClosky ls.	207 + 121	8-3-43	4
27 Toliver East.....	Clay	Obering, McGee 1	NE NE SW 30-4N-7E	2,847	2,833	McClosky ls.	300	9-7-43	1
28 Waltonville.....	Jefferson	Byars & Ellison, Jefferson O. & G. 1	SE SW NW 32-3S-2E	2,766	2,466	Bethel ss.	38 + 40	5-2-43	1
29 West Frankfort South.....	Franklin	E. S. Adkins, Browns Estate 1	SE NE NW 25-7S-2E	2,875	2,765	Lervias ls.	182	4-6-43	8

^a Oil and water (pumping unless otherwise indicated).^b Discovered in 1942; named 4-29-43.

The average initial production of the discovery wells of the 28 new fields was 194 bbl. of oil and 15 bbl. of salt water. By comparison, the average initial production of the discovery wells of the 40 new fields of the previous year was 130 bbl. of oil and 23 bbl. of salt water.

In fields discovered since 1936, the total number of wells producing at the end of 1943 was 12,408, which may be compared with 11,404 wells producing at the end of 1942.

PRODUCTIVE ACREAGE

The area proved for production in the new fields (discovered since 1936) increased from 121,430 acres at the beginning of 1943 to 144,335 acres at the end of the year (Table 1), an increase of 22,905 acres, of which 2690 acres are in fields discovered during the current year and 20,215 in extensions to pools drilled earlier. In 1942, for comparison, 22,247 acres were added, 4540 by fields discovered during that year and 17,707 by extensions to older fields.

DRILLING

During the past year 1813 wells were completed. Of these, 1791 were oil or gas producers and dry holes and the other 22 were gas-input wells, salt-water disposal wells, and stratigraphic tests. Of the 1791 wells drilled for oil or gas, 1061 were oil wells, 9 were gas wells, and 721 were dry holes. The producers made up 59 per cent of the wells drilled. Of the total number drilled, 462 are classified as wildcat, and of these 94 were successful in obtaining production. In 1942, for comparison, producers made up 58.5 per cent of the wells drilled. Of the total number of wells drilled during that year, 549 were classified as wildcats, of which 88 were successful in obtaining production (Table 2, A and B). Important dry wildcat wells completed in 1943 are listed in

Table 2D. A summary of drilling by counties is given in Table 5.

EXPLORATION METHODS

The results of an investigation to ascertain the reasons for the locations of the wildcat wells are set forth in Table 4. Of the 461 wildcat wells, the 413 known to have been located by scientific methods were 22 per cent successful. The 549 wells drilled in 1942, the locations of which were made by scientific methods, were 19 per cent successful. The total footage of wildcat wells drilled in 1943 was 596,204 ft., of which a total of 82,725 ft. was drilled in successful wells.

Subsurface geology and geophysics, largely the reflection seismograph, were the methods used in locating approximately 77 per cent of the wildcat wells drilled in Illinois. The methods of locating the 28 wells that discovered new pools in Illinois were, as follows: Subsurface geology, 14; seismograph surveys, 9; combination of seismograph and subsurface geology, 3; combination of gravimeter and seismograph, one; subsurface geology and gravimeter, one. The number of seismograph parties operating throughout the year was as follows:

Jan.....	11	July.....	6
Feb.....	11	Aug.....	5
Mar.....	10	Sept.....	5
Apr.....	8	Oct.....	5
May.....	7	Nov.....	6
June.....	6	Dec.....	5

Calculated in party-months, the amount of seismograph work done in Illinois in 1943 was only about half that done in 1942.

DEEP TESTS DURING 1943

Few deep tests were drilled in Illinois in 1943 (see Table 2). There was one discovery of Devonian limestone production in pools producing from shallower formations; namely, in the Patoka pool (Table 2C, line 39). Two new pools were discovered in the Silurian—the Mt. Auburn pool,

TABLE 2.—(Continued)

Line Number	Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbl. ^a	Date of Completion of Discovery Well
B—DISCOVERY WELLS OF EXTENSIONS TO POOLS									
1	Akin.....	Franklin	Seaboard, U. S. Coal & Coke 8	C NE NE 26-38-4E	3,132	3,122	Aux Vases ss.	275 + 3	3-23-43
2	Akin.....	Franklin	Lario O. & G., Franklin Co. Mining 1	SW SW NW 36-38-4E	3,156	3,122	Aux Vases ss.	46 + 12	5-18-43
3	Albion.....	Edwards	First Nat. Petr., Brown 1	S/2 SW SW 6-28-11E	3,030	3,008	Aux Vases ss.	158	10-19-43
4	Albion.....	Edwards	Superior Oil, Earhart 1	NW SE SE 25-28-10E	3,233	3,233	Waltersburg ss.; McClosky ls.	152 + 65	10-26-43
5	Albion.....	Edwards	Noah, Edwards County Poor Farm 1	NE SW NW 6-28-11E	3,161	3,102	Levias ls.	41 + 10	11-30-43
6	Albion.....	Edwards	Lewis Prod., Dunk 2	NW SE SE 36-28-10E	2,422	2,388	Waltersburg ss.	184	11- 9-43
7	Albion East.....	Edwards	Superior, Bender 1	SW NE NW 29-28-14W	3,179	3,139	Weller ss.; Aux Vases ss.; McClosky ls.	131 + 15	12- 7-43
8	Albion East.....	Edwards	Superior, Reid 1	SW NE NE 29-28-14W	3,233	2,783	Cypress ss.	34 + 55	11- 2-43
9	Barnhill East.....	Wayne	Cities Service, Perry 1	W/2 SW NW 33-28-9E	3,233	3,233	Levias ls.; Rosiclare ss.	174	10- 5-43
10	Barnhill East.....	Wayne	Cities Service, Vaughn 1	NW SW SE 29-28-9E	3,302	3,290	McClosky ls.	209	9- 7-43
11	Barnhill East.....	Wayne	Nat. Refining Co., P. Hill 1	SE SW SE 12-1N-9E	3,281	3,281	McClosky ls.	191	2- 9-43
12	Bennington.....	Wayne	Schoonmaker et al., Fitch 1	E/2 NE SE 17-48-7E	3,349	3,149	Aux Vases ss.	15	6- 1-43
13	Blairsville.....	Hamilton	Magnolia, R. Odell 1	C NW SW 23-18-7E	3,490	3,338	Levias ls.	17 + 25	4-27-43
14	Boyleston.....	Wayne	Pure, Porter 1	SW SW SW 23-18-7E	3,275	3,275	McClosky ls.	12 + 24	8-17-43
15	Bungay.....	Hamilton	Ohio, York 1	SW SW SW 26-48-7E	3,320	3,298	Aux Vases ss.	452 (Flo.)	10-12-43
16	Calvin.....	White	Whisenant & Trenchard, E. E. Owens 1	SW SW NW 13-48-14W	2,853	2,800	Bethel ss.	65	7-13-43
17	Calvin North.....	White	British-American Oil, F. Metcalf 1	SW SE NE 31-35-14W	1,540	1,526	Pennsylvanian ss.	125	7-20-43
18	Calvin North.....	White	Slaghter Partner, Seifried 1A	NW SE SW 30-38-11E	2,400	1,850	Bethel ss.	44 + 11	11- 9-43
19	Clay City Consolid.....	Wayne	Robinson Puckett, Gordon Mulhback 1	NE SW NE 1-1N-8E	3,120	3,085	Rosiclare ss.	127	12- 7-43
20	Clay City Consolid.....	Wayne	Pure, Gray "A" 1	SE NW SE 34-2N-7E	2,977	2,978	Aux Vases ss.	125	10-19-43
21	Clay City Consolid.....	Wayne	Washburn & Powers, Jordan 1	NE NW SE 34-2N-7E	2,977	2,968	Aux Vases ss.	230	10-19-43
22	Clay City Consolid.....	Wayne	Rockhill & Pure, Riggs 1	C NE NE 22-1N-8E	3,145	3,023	Levias ls.	6 + 2	7- 6-43
23	Coil West.....	Jefferson	Great Lakes Carbon, Reiling 1	SW SE SE 21-18-4E	3,115	3,274	McClosky ls.	159	9-28-43
24	Concord.....	White	Buren & McGregor, Fee 1	C NW SE 32-18-7E	2,901	3,281	McClosky ls.	30	8- 3-43
25	Covington.....	Wayne	Ohio Fuel Supply, Mussbaum 1	SE SE NW 23-35-6E	3,335	3,308	McClosky ls.	375 + 16	7-13-43
26	Covington South.....	Wayne	H. Gussman, Mead 1	SE SE NW 13-35-6E	3,222	3,105	Levias ls.	143 + 37	5-18-43
27	Dale-Hoodville.....	Hamilton	F. Jablonski, S. Brown 1	E/2 SW SE 12-5N-9E	2,980	2,954	McClosky ls.	20 + 14	6-22-43
28	Dundas Consolidated.....	Jasper	Skiles, Murray et al. 1	SE SE SE 34-1N-13W	1,805	1,781	Palestine ss.	70 + 15	9-23-43
29	Friendsville.....	White	Skiles, Murray et al. 1	E/2 NW NE 25-38-10E	1,921	1,921	Bethel ss.	65	11-23-43
30	Grayville.....	White	Midstates Oil & Ashland Ref., Coad 1	SW NW NW 13-38-10E	3,240	1,977	Pennsylvanian ss.	15 + 22	7-27-43
31	Grayville West.....	Edwards	W. C. McBride, Bailey 1	NE SW SE 3-78-9E	3,125	2,684	Cypress ss.	62 + 7	6- 1-43
32	Herald.....	White	Nash Redwine, Gilbert 1	C NE SE 4-4N-8E	3,050	2,999	St. Louis ls.	10	8-17-43
33	Ira.....	Jefferson	Superior, Hinterscher 1	NE SE NW 11-4N-8E	3,054	3,013	McClosky ls.	42 + 90	8-31-43
34	Ingraham.....	Clay	Superior, Hinterscher 1	SE SE NW 16-5N-5E	3,148	3,063	McClosky ls.	15	9-28-43
35	Ingraham.....	Clay	H. S. Williams, McGee 1	NE NW SE 22-5N-5E	2,358	2,350	Aux Vases ss.	153	8-31-43
36	Iola.....	Clay	Texas, N. Birch 1	C SW NW 16-5N-5E	2,367	2,354	Aux Vases ss.	60 + 5	2-16-43
37	Iola.....	Clay	L. Waagoner, Pitcher 1	C NE SW 13-1N-5E	2,466	2,452	McClosky ls.	699 (P. & Flo.)	6-15-43
38	Iola.....	Clay	Wisconsin Oil & Ref., Powless 1	NE SE NW 16-5N-5E	3,131	2,985	Aux Vases ss.	36	7- 6-43
39	Johnsenville West.....	Wayne	Seaboard, Eldridge Community 1	E/2 SW SE 9-1N-10E	2,907	2,892	Rosiclare ss.	53 + 8	5-11-43
40	King.....	Jefferson	Ryan & Fortner, Ralston 1	E/2 NW NE 9-1N-10E	3,340	3,271	McClosky ls.	758 (Flo.)	9-10-43
41	Maple Grove.....	Edwards	Ryan & Fortner, Meats 1	SE NE NE 16-4N-6W	3,259	3,240	McClosky ls.	396	9-21-43
42	Maple Grove.....	Edwards	Eason-Rockhill, Pence 1		1,767	1,705	Shuman	168 + 103	10-19-43
43	Marine.....	Madison							

44 Mattoon.....	Coles	SE NW NW 25-12N-7E	2,063	2,012	Aux Vases ss.	25 + 24	7-20-43
45 Maunie North.....	White	SW SW NE 24-5S-10E	3,120	3,007	McClosky ls.	7 + 30	10-12-43
46 Mill Shoals.....	Wayne	SW SW 13-3S-8E	3,423	3,235	Aux Vases ss.	44 + 18	12-7-43
47 Mt. Carmel.....	Wabash	NW SW NW 9-1S-12W	2,403	2,403	Behl ss.; Bethel ss.	120	5-11-43
48 Mt. Carmel.....	Wabash	SW SW NW 4-1S-12W	2,347	1,904; 2,164	Weiler ss.	3 + 5	7-6-43
49 Mt. Carmel.....	Wabash	NE NE SE 7-1S-12W	2,431	1,985	Cypress ss.	208 F.	8-24-43
50 Mt. Carmel West.....	Wayne	NE NE SW 14-1S-13W	2,633	2,058	Waltersburg ss.	40	2-2-43
51 Mt. Erie.....	Wayne	NE NE SE 16-1S-3E	3,144	1,881	Aux Vases ss.	22	3-9-43
52 Mt. Erie South.....	Wayne	C NE NW 27-1S-8E	3,252	3,119	Aux Vases ss.	88	11-2-43
53 Mt. Vernon.....	Jefferson	NE SW NE 6-3S-3E	2,808	2,801	McClosky ls.	280	8-17-43
54 Noble.....	Richland	C SW SE 10-3N-9E	3,055	2,987	McClosky ls.	118	11-30-43
55 Patton West.....	Wabash	SW 4 29-1N-12W	2,388	2,331	Rosclaire ss.	4 + 4	11-30-43
56 Phillipstown.....	White	N/2 NE NE 25-4S-10E	3,091	3,076	McClosky ls.	45 + 60	1-12-43
57 Phillipstown.....	White	SE SW NW 30-4S-14W	3,108	3,085	McClosky ls.	68	5-23-43
58 Phillipstown.....	White	Kubat, E. W. Johnson 1	3,120	1,981	Degonia ss.	35 + 65	6-29-43
59 Phillipstown.....	White	SE NW NW 30-4S-11E	1,346	1,383	Pennsylvanian ss.	231	7-6-43
60 Rural Hill.....	Hamilton	NW NE NW 17-6S-6E	3,141	3,127	Aux Vases ss.	60	12-21-43
61 Schnell.....	Richland	E/2 NW NW 31-3N-9E	3,005	2,990	McClosky ls.	138	10-26-43
62 Schnell.....	Wayne	S/2 SW 4 30-3N-9E	3,075	2,973	McClosky ls.	98	2-23-43
63 Sims North.....	Wayne	C SE SW 8-1S-6E	3,235	3,009	Aux Vases ss.	351	1-12-43
64 West Frankfort South.....	Franklin	SE SE NE 25-7S-2E	2,096	2,026	Tar Springs ss.	119	6-22-43
65 West Frankfort South.....	Franklin	SE SE NE 30-7S-3E	2,975	2,740	Levias ss.	97 + 4	12-21-43
66 Whittington.....	Franklin	SE SW NW 21-5S-3E	3,115	2,533	Cypress ss.	199	11-16-43

C—DISCOVERY WELLS OF ADDITIONAL PRODUCING ZONES IN POOLS

1 Aden.....	Wayne	16-3S - 7E	3,297	3,292	Levias ls.	194	9-28-43
2 Aden.....	Wayne	16-3S - 7E	3,275	3,319	Rosclaire ss.	320 + 8°	10-5-43
3 Aden North.....	Franklin	33-2S - 7E	3,243	3,300	Aux Vases ss.	164 + 2	9-14-43
4 Aden.....	Wayne	36-6S - 4E	3,282	3,271	McClosky ls.	76	8-17-43
5 Albion East.....	Edwards	6-3S - 11E	3,161	3,102	Levias ls.	41 + 10	11-30-43
6 Albion East.....	Wayne	20-2S - 14W	3,247	3,000	Levias ls.	172	8-31-43
7 Barnhill.....	Wayne	24-2S - 8E	3,206	3,225	Aux Vases ss.	20 + 5	8-10-43
8 Barnhill East.....	Wayne	23-2S - 9E	3,278	3,283	Levias ss.	174 F.	10-5-43
9 Blairsville.....	Hamilton	2-2S - 7E	3,274	3,267	Rosclaire ss.	428 F + 24 W	10-10-43
10 Boylston.....	Wayne	8-2S - 7E	3,247	3,090	Aux Vases ss.	110	5-4-43
11 Calvin North.....	White	6-4S - 14W	2,901	2,930	Tar Springs ss.	81	4-20-43
12 Calvin North.....	White	6-4S - 14W	2,901	2,954	Waltersburg ss.	190	7-20-43
13 Calvin North.....	White	6-4S - 14W	2,158	1,697	Levias ss.	50 + 24	8-10-43
14 Calvin North.....	White	6-4S - 14W	1,699	1,593	Pennsylvanian ss.	36	5-18-43
15 Calvin North.....	White	31-3S - 14W	2,806	2,877	Aux Vases ss.	36	6-1-43
16 Concord.....	White	23-6S - 10E	3,053	2,682	Levias ls.	210	12-23-43
17 Concord.....	White	23-6S - 10E	2,290	2,271	Tar Springs ss.	80 + 40	12-7-43
18 Dale-Hoodville.....	Hamilton	18-6S - 7E	2,435	2,429	Tar Springs ss.	1,187 F.	7-12-43
19 Friendsville.....	Wabash	27-1N-13W	2,667	2,647	Levias & McClosky ls.	35 + 5	7-12-43
20 Friendsville.....	Wabash	27-1N-13W	2,659	2,624	Levias ls.	125	9-14-43
21 Herald.....	White	3-7S - 9E	2,946	2,919	Aux Vases ss.	20 + 10	8-10-43
22 Inman East.....	Gallatin	15-8S - 10E	2,396	2,137	Hardsburg ss.	200 + 4	10-10-43
23 Inman West.....	Gallatin	15-8S - 9E	2,219	2,174	Tar Springs ss.	17	8-9-43
24 Inman West.....	Gallatin	22-8S - 9E	2,928	2,877	McClosky ls.	19 + 13	5-18-43
25 Iola.....	Clay	15-5N - 5E	2,306	2,240	Paint Creek Stray ss.	80 + 10	2-16-43
26 Iola.....	Clay	15-5N - 5E	2,154	2,125	Weiler ss.	105	2-2-43
27 Iola.....	Clay	15-5N - 5E	2,437	2,427	McClosky ls.	385	2-16-43

* Oil + water.

OIL AND GAS DEVELOPMENT IN ILLINOIS IN 1943

TABLE 2.—(Continued)

Line Number	Pool	County	Company and Farm	Location	Total Depth, Ft.	Depth to Top, Ft.	Producing Formation	Initial Production, Bbls. ^a	Date of Completion
28	Johnsonville W	Wayne	Wisconsin Oil & Ref., Powless 1	13-1N-5E	3,131	2,971	Aux Vases ss.	36	7-6-43
29	Kenner	Clay	Williams, Green 4	30-3N-8E	2,845	2,812	Aux Vases ss.	23 + 3 s.w.	10-12-43
30	Lancaster West	Wabash	Beauregard Bros., Hinterliter et al. 1	11-1N-14W	2,863	2,851	Rosclaire ss.	92 F.	8-24-43
31	Mason South	Effingham	Braun, Trimble 1	26-6N-5E	2,441	2,433	Rosclaire ss.	65	4-6-43
32	Maunie	White	B. B. & M. Drill, Barnes 1	12-6S-10E	1,338	1,308	Bridgeport ss.	22	11-23-43
33	Maunie North	White	Continental, Ackerman 2	25-6S-10E	2,961	2,930	Aux Vases ss.	117	10-12-43
34	Mt. Erie South	Wayne	Ball Bros., Berah 1	22-1S-8E	3,142	3,130	Levias ls.	255	8-31-43
35	Mt. Erie South	Wayne	Pure Oil, J. Creighton 1	22-1S-8E	3,097	3,072	Aux Vases ss.	135	8-31-43
36	McKinley	Washington	DeKalb, Hundeth 1	30-2S-3W	1,220	1,215	Bethel ss.	46	8-31-43
37	Mt. Vernon	Jefferson	Gulf, Hull 1	0-3S-3E	2,845	2,732	Levias ls.	16 + 50	12-28-43
38	Olney	Richland	Texas, Boatman Comm. 1	27-4N-10E	3,094	2,833	McClosky ls.	90	7-27-43
39	Patoka	Marion	Adams O. & G., Pugh 10-D	22-4N-1E	2,908	2,837	Levias ls.	103 + 7	2-9-43
40	Phillipstown	White	Sun Oil, Garner 9	6-5S-11E	2,356	1,793	Devonian ls.	150	1-19-43
41	Phillipstown	White	Jarvis & Maxwell, Garner 5	31-4S-11E	3,444	1,473	Pennsylvanian ss.	80 + 65	4-6-43
42	Phillipstown	White	Eason, Clark 2	30-4S-11E	3,116	2,808	Bethel ss.	119	8-10-43
43	Phillipstown	White	Phillips Petr., Laura 4	19-4S-11E	3,043	3,016	Levias ls.	58	11-9-43
44	Phillipstown	White	Tide Water, Dennis "B" 2	18-4S-11E	3,005	2,901	Degonia ls.	18 + 30	12-7-43
45	Sailor Springs	Clay	McBride, Hancock 1	10-3N-7E	2,620	2,722	Cypress ss.	91 + 3	1-26-43
46	Sims North	Wayne	Texas, Gilbert 6	17-1S-5E	3,174	2,390	Glen Dean ls.	306	6-22-43
47	Stokes	White	Pure, Pyle Consol. 4	18-6S-9E	2,960	2,664	Levias ls.	30	1-19-43
48	Stokes	White	Pure & Carter, Goudy Consol. 1	7-6S-9E	3,045	3,033	Weiler ss.	157	6-8-43
49	Woodlawn	Jefferson	Magnolia, Shirley 7	35-2S-1E	1,961	1,780	Cypress ss.	108 + 8	8-3-43

Christian County, and the Marine pool, Madison County (Table 2A, lines 20, 22). The deepest formations reached in 61 important dry tests are indicated in Table 1. The considerable number of "Trenton" tests in Madison, St. Clair and adjacent counties followed the discovery in 1942 of "Trenton" production in the St. Jacob pool, Madison county.

Only four of the tests listed in Table 2D reached the St. Peter sandstone (lines 16, 18, 19 and 47) and one reached the Eau Claire in the Cambrian (line 16).

DEVELOPMENT

Most of the new discoveries and development during 1943 took place in White, Wayne, Wabash, Clay, Jefferson, and Hamilton counties in the southeastern part of the state. In Wayne County 228 wells were drilled, of which 151 were producing wells (Table 5). Some of the fields in which the greatest number of producing wells were drilled in 1943 are the Mt. Carmel (Wabash County), Clay City Consolidated (Clay and Wayne Counties), Phillipstown Consolidated (White County), Bible Grove (Clay and Effingham Counties), Iola (Clay County), and Dale-Hoodville Consolidated (Hamilton County) fields.

PROSPECTS FOR 1944

The outlook for 1944 is for drilling to continue at nearly the same rate as in 1943, with a gradual decline unless there is a major discovery, a rise in the price of crude oil, or a modification of well-spacing restrictions accompanied by adequate supplies of material and manpower.

ECONOMIC DATA

On the basis of posted prices, the total value of the oil produced in 1943 was approximately \$111,989,470. Posted prices for Illinois crude oil in 1943 were \$1.37

for the central basin fields, Salem area, and Griffin area, and \$1.22 per barrel for oil in the old fields.

In 1943, a total of 4,611,695 ft. of hole was drilled in the state. Of this amount 2,766,912 ft. represents producing wells. With an assumed average cost of \$3.50 per foot, the total investment in drilling was \$16,140,932.50, including both producing wells and dry holes. In the 461 wildcats completed during the year, 1,189,317 ft. of hole was drilled. At \$3.50 per foot, the drilling cost of these wildcats amounted to \$3,762,609.50. The average depth of all wells drilled in the state in 1943 was 2573 ft., as compared with 2607 ft. in 1942.

The average initial production of the oil wells for 1943 was 123 bbl. as against 182 bbl. for 1942.

PIPE LINES

There was little construction of trunk pipe lines to serve Illinois oil fields or Illinois refineries during 1943. As shown by the detailed statement below, construction was largely confined to loops and short spurs.

Construction by the War Emergency Pipe Line Inc. in Illinois continued in 1943. The "Big Inch" crude-oil line (24-in.) from Longview, Texas, started transporting oil to Norris City, Ill., in January 1943, and in August 1943 it started transporting oil from Norris City to the East. The "Little Big Inch" (20-in.) products line from Beaumont, Texas, which parallels the "Big Inch" across Illinois, was under construction during 1943 and was reported to be nearly completed by the end of the year.

Crude Oil

Magnolia Pipe Line Co.—2 miles 3-in., Woburn field to 8-in. line of the Ohio Oil Co., Bond County; 3 miles 2-in., Beaver Creek field to 10-in., Magnolia pipe line (formerly Socony-Vacuum), Bond County.

TABLE 2.—(Continued)

Line Number	County	Location	Company and Farm	Total Depth	Deepest Formation	Depth to Top, Ft.	Date Completed
D—IMPORTANT DRY TESTS							
1	Bond	29-5N-4W	Aetna Oil, M. Spengel 1	3,000	"Trenton"	2,941	7-27-43
2	Bond	14-8N-2W	E. Burgard, Klaus 1	2,460	Devonian	2,425	3-2-43
3	Champaign	1-22N-7E	R. F. G. Drull, Reynolds 3	324	Shurian		6-1-43
4	Christian	26-15N-2W	Wainwright, Bernard 1	2,000	Devonian	1,926	8-31-43
5	Clinton	7-38-5W	Snokey Oil, J. Friedrich 1	2,741	"Trenton"	2,698	1-26-43
6	Clinton	13-2N-4W	Eason Oil, Schuette 1	3,171	"Trenton"	3,102	3-2-43
7	Clinton	22-1N-3W	Derby Oil, Conrad Houkap 1	3,287	"Trenton"	3,249	3-9-43
8	Clinton	22-1N-3W	Wiser Oil, M. Wessel 1	2,815	Devonian	2,700	7-6-43
9	Clinton	29-3N-2W	Black and Pearson, H. Kluth 1	3,028	Devonian	2,916	7-18-43
10	Clinton	35-14N-7E	P. Mosbach, M. B. Skidmore 1	2,679	Devonian	2,571	9-7-43
11	Coles	31-15N-10E	Continental, Minno Daily 1	3,172	Devonian	2,940	6-29-43
12	Crawford	31-15N-10E	Ryan Oil (Powers-Krohn), Boyer 1	2,989	Devonian	2,590	12-7-43
13	Douglas	1-33N-12W	S. J. Burkett, W. L. Worley 1	1,216	Shurian	1,178	8-17-43
14	Edgar	1-33N-14W	Tom Poppasattel, J. O. Halland 1	2,212	"Trenton"	2,165	6-22-43
15	Kayakee	28-9N-1E	Northern Ordnance, Inc., M. O'Connor 1-D	3,140	Devonian	2,987	4-20-43
16	Ford	19-24N-7E	Nelson, Urp, Stroh, J. Urp 1	3,355	Eau Claire	3,305	7-20-43
17	Ford	1-28N-9E	A. C. Murray, Paulsen 1	720	"Trenton"	690	1-4-44
18	Fulton	17-5N-1E	J. L. Smith, Bradley 1	1,130	St. Peter	1,116	8-3-43
19	Greene	30-11N-13W	D. S. Brooks, Valley Farms 2	765	St. Peter	756	5-25-43
20	Greene	20-3N-5W	Dale Hopkins, K. H. Slater 1	673	Devonian	620	11-9-43
21	Henderson	14-6N-14W	Newhall Corp., Hanna 1	610	Maquoketa	416	3-2-43
22	Henderson	8-8N-5W	C. D. Kidder, C. H. Carpenter 1	530	Devonian	365	4-6-43
23	Jefferson	27-38-3E	Nash Redwine, Prudential Life Ins. 1	4,759	Devonian	4,536	4-6-43
24	Kankakee	2-29N-12W	Ste. Anne Petr., V. A. Cote 1	780±	"Trenton"		3-9-43
25	Madison	11-3N-5W	J. Kest, Gargae 1	2,548	"Trenton"	2,514	4-13-43
26	Madison	12-3N-5W	R. Powers, Kaufman-Isenberg 1	1,370	Devonian	1,262	1-19-43
27	Madison	21-5N-5W	L. Alch, Guseville 1	2,773	"Trenton"	2,452	1-12-43
28	Madison	33-4N-7W	Kingwood, J. E. Neggli 1	2,370	"Trenton"	2,269	2-9-43
29	Madison	29-5N-5W	McCollough, Blacet 1	2,715	"Trenton"	2,618	2-23-43
30	Madison	23-3N-5W	Shell Oil, Sug Hairs 1	2,948	"Trenton"	2,852	4-27-43
31	Marion	14-3N-1E	E. W. Hayes, Null 1	3,344	Devonian	3,245	2-2-43
32	Marion	19-22N-6W	Vawter & Braun, Dill 1	1,401	"Trenton"	1,389	6-1-43
33	Monroe	13-38-10W	Central Pipe Line, Ges 1	965	"Trenton"	904	7-6-43
34	Montgomery	31-8N-5W	W. R. Holmes, Monke 1	2,467	Pottsville	2,408	9-28-43
35	Montgomery	31-8N-5W	W. R. Holmes, Monke 1	752	Pottsville	600	4-13-43
36	Montgomery	28-8N-5W	Myers & Duff, Keys 1	699	Pennsylvanian	565	6-8-43
37	Montgomery	32-11N-5W	Continental Oil, J. L. Beachy 1	652	Pennsylvanian		11-2-43
38	Montrose	13-15N-6E	Texas, J. Matlavish 1	3,681	"Trenton"	3,518	4-20-43
39	Perry	36-4S-2W	Mineral Develop., G. S. Hyde 2	4,119	"Trenton"	3,984	3-23-43
40	Pike	14-5S-6W	Fuller & Turner, McChiey 1	621	"Trenton"	466	9-28-43
41	Putnam	3-31N-1W	Southwestern Ill. Coal Corp., Cidland 1	2,000	New Richmond	1,940	8-10-43
42	Randolph	25-5S-5W		2,566	Devonian	2,466	12-14-43

43 St. Clair	28-1N-10W	Tartleton et al., Dryoff 1-A	1,800	New Richmond	1,614	4-6-43
44 St. Clair	16-2N-6W	Big Four Oil & Gas, Voges 1	2,995	"Trenton"	2,494	3-2-43
45 St. Clair	17-3S-8W	H. C. Robertson et al., Karban 1	1,480	"Trenton"	1,410	2-23-43
46 St. Clair	18-1S-6W	D. S. Hager, Klinge 1	2,363	"Trenton"	2,257	3-8-43
47 St. Clair	4-1S-8W	Eason Oil E., Thomas 1	2,174	St. Peter	2,157	3-30-43
48 St. Clair	24-2S-6W	J. Vetch, M. Lange 1	2,745	"Trenton"	2,632	3-30-43
49 St. Clair	24-1S-9W	N. W. Whitton, G. Grossman 1	1,505	"Trenton"	1,427	5-25-43
50 St. Clair	31-1S-8W	H. Gass, A. Engleth 1	1,605	"Trenton"	1,522	7-20-43
51 St. Clair	29-1N-6W	Eason et al., Engle 1	2,452	"Trenton"	2,346	8-31-43
52 St. Clair	32-2N-7W	W. P. Muller, Smiley 1	1,990	"Trenton"	1,946	8-24-43
53 Sangamon	15-15N-3W	Davis, Taft 1	1,850	Slurian	1,787	12-14-43
54 Sangamon	21-15N-3W	O. A. Reed et al., C. Ross 1	2,314	"Trenton"	2,217	12-28-43
55 Shelby	21-10N-4E	W. Duncan, H. H. Hoskins 1	3,236	Devonian	3,110	7-27-43
56 Shelby	18-11N-6E	Texas, Ferguson 1	3,634	Devonian	3,345	12-28-43
57 Union	35-11S-1W	Little Egypt Oil, Basler 1	4,053	"Trenton"	3,999	9-21-43
58 Warren	31-8N-1W	King & Heiser, M. Gren 1	510	Maquoketa	742	3-30-43
59 Washington	32-2S-4W	Texas, C. L. Kokesh 1	2,485	Devonian	2,339	6-22-43
60 Washington	9-1S-4W	Fisher Oil et al., J. Rossell 1	2,646	Devonian	2,340	7-20-43
61 Will.	21-35N-9E	Brown & Feltis, Gardner 1	900	Platteville		6-8-43

^a In Warrenton, Borton pool.

^e In Dupu pool.

Ohio Oil Co.—2 miles 14-in., Wood River station to the Allied Pipe Line Company's dock on the Mississippi River, Madison County (under construction).

Pure Oil Co.—4 miles 4-in., Geff field to the Cisne station, Wayne County; 7 miles 4-in. and 6-in., Sims North field to Johnsonville field, Wayne County; 4 miles 4-in., Schnell field to Pure Oil Co. trunk line, Richland County; 14 miles 4-in., Mt. Erie South field northeast to Mt. Erie field, then northwest to the Pure Oil Co. trunk line which runs through the Clay City Consolidated field, Wayne County.

Sohio Pipe Line Co.—14 miles, 4-in., Brownstown station of the Ohio Oil Co. pipe line to Loudon field, Fayette County; 3 miles 3-in., Coil West field to Ashland Oil and Refining Co. pipe line, to the Johnsonville station, Wayne County; 5 miles 2-in., Dahlgren and Mayberry fields to the Texas pipe line to Johnsonville station, Wayne County; 12 miles 4-in., extension to Benton field line running near West Frankfort, Franklin County; 10 miles 4-in., Maplegrove field to the Parkersburg station, Edwards County; 2 miles 4-in., Stringtown field to Sohio trunk line, Richland County.

Texas Pipe Line Co.—20 miles 6-in., Woodlawn station to Salem station, Marion County; 20 miles 6-in., Hilliard station to the Clay City station, Wayne County.

NATURAL GAS

Citizens Natural Gas Co.— $\frac{1}{2}$ mile 2-in., Panhandle Eastern Pipe Line Co. line to Newman, Crawford County.

Natural Gas Pipe Line Company of America—1 mile 2-in., Natural Gas Pipe Line Company of America trunk line to Princeton, Bureau County.

REFINERIES

No new refineries were constructed in Illinois during 1943; however, the total daily refinery capacity was increased from 281,000 to 289,000 barrels.

During the year Illinois crude-oil production amounted to 26 per cent of the runs to stills for refineries in the Central refining district (Illinois, Indiana, Ken-

TABLE 3.—*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	52			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.....	2,016	1,179	101,837	4,753	106,590
1943:					
January.....	135	84	7,005	396	7,401
February.....	142	104	6,352	368	6,720
March.....	137	89	6,908	434	7,342
April.....	157	91	6,518	396	6,914
May.....	111	66	6,482	380	6,862
June.....	115	64	6,257	423	6,680
July.....	181	98	6,360	396	6,756
August.....	144	80	6,303	388	6,691
September.....	135	79	6,211	381	6,592
October.....	196	129	6,466	376	6,838
November.....	138	81	6,325	374	6,699
December.....	200	123	6,399	362	6,761
Total.....	1,791	1,087 ^e	77,586	4,674	82,256

^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 Bartelso.^d From the U. S. Bureau of Mines.^e Includes 22 wells formerly dry holes.

tucky, Michigan and western Ohio) and the Appalachian refining district (eastern Ohio, western New York, western Pennsylvania and West Virginia). For December

TABLE 4.—*Wildcat Wells Drilled in Illinois in 1943*

CLASSIFIED ACCORDING TO METHOD OF LOCATION

Method	Number of Wells	Number of Producers	Percentage of Wells Successful
Geology.....	306	70	23
Geophysics (chiefly seismograph but including gravimeter).....	69	15	22
Seismograph and geology.....	38	6	16
Total scientific.....	413	91	22
Nonscientific.....	48	3	6
Unknown.....	0	0	0
Total.....	461	94	20

1943, the runs to stills in the Central and the Appalachian refining districts were 27,807,000 bbl. Of this amount Illinois production was 24.3 per cent. Stocks of crude petroleum on hand in Illinois on

Dec. 31, 1943, were 14,053,000 bbl. as compared with 9,170,000 bbl. on Dec. 31, 1942. 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, 1943, Bbl.	Dec. 31, 1942, Bbl.
Gasoline.....	18,514,000	19,026,000
Gas, oil and distillate fuel....	6,947,000	6,643,000
Residual fuel oil.....	3,397,000	3,025,000

NATURAL GAS

The amount of natural gas produced and marketed in Illinois during 1943 was approximately 2410 million cubic feet. The amount marketed from each field is given in Table 7.

Five new wells were drilled within proved territory in the Russellville gas field during 1943, bringing the total number of producing wells in the field to 59. All of these new wells produce from the Bridgeport sand. To the end of

1943 the productive area of the Buchanan sand proved by drilling was 1650 acres and of the Bridgeport, 270 acres. The One well was completed in the Ayers gas field, Bond County, during the year and it brought the number of producing

TABLE 5.—Summary of Drilling and Initial Production in Illinois for 1943

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				
Adams.....	1	0	0	0	0	1,273	0
Bond.....	13	0	1	0	2.10	18,472	2,073
Brown.....	1	0	0	0	0	297	0
Champaign.....	1	0	0	0	0	324	0
Christian.....	4	1	0	22	0	7,152	1,905
Clark.....	6	2	0	20	0	4,739	903
Clay.....	201	148	0	16,342	0	543,900	401,218
Clinton.....	44	9	2	1,915	7.00	87,997	27,889
Coles.....	8	1	0	25	0	15,519	2,063
Crawford.....	7	0	0	0	0	15,631	0
Cumberland.....	10	0	0	0	0	22,860	0
Douglas.....	1	0	0	0	0	1,216	0
Edgar.....	1	0	0	0	0	2,212	0
Edwards.....	68	37	0	8,652	0	206,844	111,030
Effingham.....	44	29	0	1,742	0	107,071	68,339
Fayette.....	44	18	0	1,360	0	96,902	42,758
Ford.....	2	0	0	0	0	4,675	0
Franklin.....	58	25	0	2,254	0	158,921	67,357
Fulton.....	1	0	0	0	0	1,130	0
Gallatin.....	49	39	0	3,349	0	116,730	88,444
Greene.....	1	0	0	0	0	765	0
Hancock.....	1	0	0	0	0	673	0
Hamilton.....	156	112	0	19,554	0	483,779	338,906
Henderson.....	2	0	0	0	0	1,140	0
Jackson.....	2	0	0	0	0	4,684	0
Jasper.....	26	11	0	2,324	0	76,970	32,894
Jefferson.....	116	64	0	10,214	0	325,764	171,830
Kankakee.....	1	0	0	0	0	780	0
Lawrence.....	66	31	5	2,510	16.43	104,376	52,512
Livingston.....	1	0	0	0	0	113	0
Macoupin.....	2	0	0	0	0	1,261	0
Madison.....	23	14	0	1,124	0	51,415	31,362
Marion.....	61	36	0	2,377	0	133,958	80,054
Mason.....	1	0	0	0	0	1,404	0
Monroe.....	2	1	0	17	0	1,456	491
Montgomery.....	10	2	0	13	0	8,496	1,262
Moultrie.....	1	0	0	0	0	3,681	0
Perry.....	5	0	0	0	0	10,583	0
Pike.....	1	0	0	0	0	621	0
Putnam.....	1	0	0	0	0	2,000	0
Randolph.....	2	0	0	0	0	3,004	0
Richland.....	47	30	0	5,366	0	140,460	86,271
St. Clair.....	17	0	0	0	0	24,242	0
Saline.....	2	0	1	0	0.59	5,660	2,345
Sangamon.....	2	0	0	0	0	4,164	0
Shelby.....	12	2	0	17	0	26,362	3,911
Union.....	1	0	0	0	0	4,053	0
Wabash.....	194	144	0	12,164	0	425,978	295,680
Warren.....	1	0	0	0	0	810	0
Washington.....	24	10	0	198	0	35,785	12,907
Wayne.....	228	151	0	25,527	0	734,230	465,095
White.....	203	148	0	13,765	0	566,020	377,413
Will.....	1	0	0	0	0	900	0
Williamson.....	5	0	0	0	0	12,243	0
	1,791	1,065	9	130,851	26.12	4,611,695	2,766,912

* Includes old wells deepened.

initial productions of the wells added to the pool during 1943 were of the order of 3 million cubic feet of gas per day.

wells in that field to 9. The field was discovered in 1922, covers 325 acres, and has produced a total of approximately

TABLE 6.—*Fields with Wells Producing from More than One Formation*

Field	County	Total Number of Combination Wells	Number of Wells and Producing Formations ^a
Iola.....	Clay	25	2CPBA, 1TA, 9CBA, 12BA, 1BPA
Sailor Springs Consolidated.....	Clay	1	1GC
Clay City Consolidated.....	Clay, Wayne	15	6RM, 1ARM, 1AM, 2CR, 1CB, 2AR, 2AL
Albion.....	Edwards	7	2BA, 1BM, 2BAM, 1WM, 1AL
Albion East.....	Edwards	1	1CAM
Mason South.....	Effingham	14	13BA, 1BR
Louden.....	Effingham, Payette	211	111CP, 50CB, 19PB, 31CPB
Akin.....	Franklin	1	1AM
Benton North.....	Franklin	1	1PA
Inman East.....	Gallatin	13	1DCI, 1PWT, 1WTC, 2PaT, 2CW, 3CIT, 2TW, 1PaW
Inman West.....	Gallatin	6	1TCM, 5TC
Blairsville.....	Hamilton	2	1ALM, 1AM
Dale-Hoodville Consol.....	Hamilton	46	2AM, 1CM, 1LA, 1CB, 40BA, 1RM
Rural Hill.....	Hamilton	61	21AL, 19ALM, 8LM, 12AM, 1AR
King.....	Jefferson	6	3AL, 1ALRM, 1ALM, 1LM
Markham City.....	Jefferson	1	1LM
Mt. Vernon.....	Jefferson	1	1LM
Patoka East.....	Marion	1	1BR
Salem.....	Marion	706	480BA, 222MS, 2BAM, 1AM, 1MD
Tonti.....	Marion	1	1BA
Dundas Consolidated.....	Richland, Jasper	5	1AM, 4RM
Friendsville.....	Wabash	2	1BiC, 1LM
Keensburg Consolidated.....	Wabash	15	1CBA, 1CA, 2BiC, 7BC, 2BA, 2AM
Maud.....	Wabash	1	1WM
Mt. Carmel.....	Wabash	26	2RM, 8BiC, 3BiCM, 9CM, 2CB, 1PeM, 1PeT
Irvington.....	Washington	1	1CB
Barnhill.....	Wayne	2	2RM
Barnhill East.....	Wayne	3	3LR
Boyleston Consolidated.....	Wayne	3	2LM, 1RM
Covington.....	Wayne	3	3LM
Johnsonville.....	Wayne	7	5AM, 2AL
Mt. Erie.....	Wayne	1	1RM
Sims.....	Wayne	18	1AL, 4LM, 1RM, 3LAM, 9AM
Sims North.....	Wayne	2	1RM, 1LM
Aden.....	Wayne, Hamilton	10	3AM, 1LRM, 5ALM, 1ALRM
Calvin North.....	White	1	1PePa
Centerville East.....	White	1	1LT
Iron.....	White	3	3TC
Maunie North.....	White	1	1BA
Maunie South.....	White	3	3TC
New Harmony Consol.....	White	181	5CP, 1TPB, 32PB, 1TB, 7CBM, 7WCB, 3CBAM, 1TCM, 2WC, 31CB, 28CBA, 2WA, 3TCA, 3TA, 1TCB, 5AM, 15BA, 1WB, 1TM, 1CM, 2WCBAM, 1WCB, 1CPM, 13CA, 2TC, 1CPB, 1BM, 1CPBAM, 1BiCA, 1PA, 1WM, 1WBM, 1RM, 1PeBA, 1WCA, 2CPA
New Haven.....	White	4	2TC, 2CM
Phillipstown Consolidated.....	White	12	1CT, 2DC, 1PeCIT, 1DCIT, 5CIT, 1BM, 1BL
Stokes.....	White	6	1CA, 3CB, 2AT
Roland.....	White	31	2WP, 1WCP, 3BA, 1BAM, 1WCA, 3CB, 9WB, 9WA, 1CBA, 1CA
Mill Shoals.....	White, Hamilton	3	3AM
		1,465	

^a Names of sands indicated as follows:

Pe, Pennsylvanian
Bi, Biehl
Pa, Palestine
D, Degonia
Cl, Clore
W, Waltersburg

T, Tar Springs
G, Glen Dean
H, Hardinsburg
C, Cypress
P, Paint Creek Stray
B, Bethel

A, Aux Vases
L, Levias
R, Rosiclare
M, McClosky
S, Salem
D, Devonian

235 million cubic feet of gas from the Bethel sandstone at a depth of about 950 feet.

NATURAL GASOLINE AND LIQUEFIED PETROLEUM GASES

Natural gasoline is produced in 34 plants in the old Southeastern field, the total capacity being approximately 8000 gal.

TABLE 7.—*Natural Gas Marketed in Illinois*

Field	County	Where Marketed	Amount Produced and Marketed, M Cu. Ft.
Russellville (gas)	Lawrence	Illinois, Indiana, Kentucky	1,236,000
Ayers (gas)	Bond	Greenville, Illinois	14,000
Salem.....	Marion	Centralia, Salem, and Mt. Vernon, Illinois	650,000
Louden....	Fayette	Brownstown, St. Elmo, Vandalia, Illinois	510,000
			2,410,000

daily. During 1943 these plants operated at only 75 per cent of capacity. In the fields discovered after Jan. 1, 1937, there are eight plants, including two in the Loudon field, one in New Harmony Consolidated field, one in the Benton field, one in the Dale-Hoodville Consolidated field and three in Salem field. These eight plants have a total capacity of approximately 325,000 gal. daily. According to the U. S. Bureau of Mines,* 71,928,000 gal. of natural gasoline was produced in Illinois in 1943. The production of liquefied petroleum gas for 1943 amounted to 112,150,000 gal., according to the U. S. Bureau of Mines.

Natural gas accompanying oil production in the Loudon field during 1943 is estimated at 7 billion cubic feet. The average daily production at the end of the year was approximately 15 million cubic feet.

* F. S. Lott, personal communication.

Approximately 13 million cubic feet of gas is processed daily by the Carter Oil Company's two repressuring plants and 5 million cubic feet 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 1.4 million cubic feet per day. The pipe-line company also receives 90,000 cu. ft. of gas daily from a well in the Loudon field, which is producing from a basal Pennsylvanian sandstone.

The production of natural gas in the Salem field for 1943 is estimated at 20 billion cubic feet. At the end of the year the estimated daily production was 37 million cubic feet. Approximately 35 million cubic feet per day is processed by the three natural gasoline plants in the field. The Texas Company returns approximately 6 million cubic feet 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, Ill. This consumption at the end of the year was approximately one million cubic feet per day.

The Dale-Hoodville Consolidated field, Hamilton County, produced an estimated 7 billion cubic feet of gas during 1943. Of this amount 6.2 billion cubic feet was processed at the Texas Company's Hoodville plant. Fifty-one million cubic feet of residue gas from this plant was returned to the field for injection. No residue gas is sold from this plant.

The Benton field, Franklin County, produced an estimated 3 billion cubic feet of gas during 1943 and 320 million cubic feet of gas from this field was processed at the Sunflower Petroleum Products Corporation plant. No residue gas is sold or returned to the Benton field for injection into the oil sand.

The New Harmony Consolidated field, White County, produced an estimated 8 billion cubic feet of gas during 1943. Of this, 4.9 billion cubic feet was processed at the Warren Petroleum Corporation's plant at Crossville, Ill., and 1.8 billion cubic feet of residue gas from this plant was returned to the leases for injection. No residue gas was sold.

The total gas production for 1943 for the fields discovered after Jan. 1, 1937, is estimated at 62,000 million cubic feet. A large part of this production is burned in flares.

SECONDARY RECOVERY

The starting of actual flooding operations by the Felmont Corporation on a part of the Patoka field in Marion County was the high light of secondary recovery in Illinois in 1943. The wide spacing of the wells and the indications of probable success for the method seem to open the way for wide application of water-flooding under Illinois conditions. Projects already begun before 1943—namely, the Forest Producing Corporation's operation on the Chrystler farm in the Siggins pool in Cumberland County and the Ohio Oil Company's operation in the Colmar-Plymouth pool in McDonough County—

continued during 1943 with moderate success and considerable promise for the future. In the Clay City area the Pure Oil Co. produced commercially important quantities of oil by flooding the McClosky lime through three input wells.

Repressuring with gas continued in the three large areas in the Loudon, Salem and New Harmony fields. The Ohio Oil Co. extended operations in Crawford County, so that 10 per cent of the drilled area is now under pressure. The results here have not been spectacular but have accounted for a considerable increase from the old wells. This increase, if it may be judged by results previously obtained in this territory, will be long lived.

Many other areas in the state are being favorably considered for extension of repressuring operations.

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FOOTNOTES TO COLUMN HEADINGS—

TABLE 1

^a All fields to be listed alphabetically and if by counties the latter also in alphabetical order. If the field is a gas field, or is primarily a gas-producing field, indicate by asterisk immediately after the name of the field, as, for example, Katy, *Waller.

^b Total area in surface acres in the field proved for production of oil and/or gas.

^c Total production in barrels of oil and/or distillate or condensate; and show by footnote, where possible, the amount of distillate or condensate production.

^d Applies only to areas in which shutdown days are ordered by a regulatory body. In such instances, show total number of days on which production was permitted during year.

^e Volume of gas produced from the field and not returned to the reservoir.

^f Include all original completions, but exclude workovers and wells deepened or plugged back. *Abandoned* refers only to wells abandoned after having produced oil and/or gas and is not to include wells abandoned without having secured production.

^g A well producing both oil and gas is classified as an oil well, unless it has been designated as a gas well by the State regulatory agency. Gas wells are wells producing gas only, wells producing condensate or distillate, and wells producing some oil but classified as gas wells by the State regulatory agency.

^h Show type of operation as indicated by the following symbols: P, pressure maintenance; G, gas injection; W, water injection; C, cycling.

ⁱ Show weighted average gravity A.P.I. at 60°F. as oil is delivered to the pipe lines, and percentage of sulphur, if any, in the oil. Where oils from more than one stratum are commingled and delivered into the pipe line at a gravity of 26 to 26.9, show as 26⁰, etc.

^j Show name of producing formation, and show its age by abbreviation as follows: 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.

^k Show character of formation by code letter as follows: A, anhydrite; C, chalk; Cg, conglomerate; Ch, chert; CR, cap rock; D, dolomite; Da, arkosic dolomite; Gw, granite wash; Sh, shale; L, limestone; LS, limestone, sandy; OL, oolitic limestone; S, sandstone.

^l Figures represent ratio of pore space to total volume of net reservoir rock expressed in per cent. P indicates reservoir rock is of porous type, but ratio is not known by the author. Cav indicates that the reservoir rock is of cavernous type; and Fis, fissure type.

^m Show actual depth to top of producing stratum. If producing zone is a series of interbedded sands and shales, and the sands are all productive or capable of producing, show the depth to top of top sand member.

ⁿ Show actual average thickness that is producing or known to be productive. If, for example, average thickness of productive zone above water level is 50 feet, show 50 feet, even though wells are completed in only upper 10 or 15 feet of zone.

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

^p Show name of deepest stratigraphic zone tested and total depth of well which tested such zone, whether it is deepest well in field or not.

^x Correct entry not determinable.