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OIL AND GAS DEVELOPMENT IN ILLINOIS IN 1940*

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ILLINOIS produced 146,788,000 bbl. of oil in 1940, or nearly 11.0 per cent of the total for the United States, and ranked fourth among the oil-producing states. Its production was only slightly less than that of Oklahoma, which produced 11.5 per cent of the national total. Illinois' production in 1940 represents an increase of 55 per cent over the previous year, when it amounted to 94,912,000 barrels.

The development of the Devonian limestone in the Salem and Centralia fields is largely responsible for the increase in production during 1940. Production from the Devonian limestone in these two fields was estimated to be 36,698,000 bbl., or 25 per cent of the state's total production (Table 1). The increase in production during June, when the state's daily average production attained a peak of 518,200 bbl. for the week ending June 29, was due to the Devonian production at Centralia (Fig. 1). The initial production of the best Devonian wells in the Centralia field was as high as 12,000 bbl. in 24 hr. Daily average production in Illinois for 1940 was 400,000 bbl. of oil, but actually daily production fluctuated widely during the year. At the beginning of 1940 daily production was approximately 330,000 bbl. During the first half of the year it increased irregularly to the peak in June mentioned above and as the prolific Devonian producing areas were drilled up, the state's daily production declined rapidly during July and contin-

ued to decline, although more slowly, until the end of the year, when the daily production was approximately 325,000 bbl. The daily average production per well in the new fields at the end of the year was approximately 40 bbl. (Fig. 1).

Oil from the Devonian was also produced in the Bartelso field, Clinton County, the Sandoval field, Marion County, and the Irvington field, Washington County, bringing the estimated total production from the Devonian limestone to about 26 per cent of the state's total production. The remainder was obtained largely from the Mississippian system.

About 2 per cent of the total was from Pennsylvanian and Ordovician strata. The decline in the Devonian limestone production has been so rapid that the 1941 output from this system will probably be only a small fraction of that of 1940 unless large new reserves are discovered.

The "Trenton" (Ordovician) limestone has been tested in two wells in the Centralia field and both were small oil producers at a depth of about 4000 ft. The "Trenton" also was found productive in the Salem field at a depth of 4500 ft. (Table 5). The initial production of the discovery well, which was completed shortly after the end of the year, was 130 bbl. on pump. Other wells drilled early in 1941 had initial productions averaging 172 barrels.

The outlook for 1941 is for a continuation of drilling activity in Illinois, but at

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OIL AND GAS DEVELOPMENT IN 1940

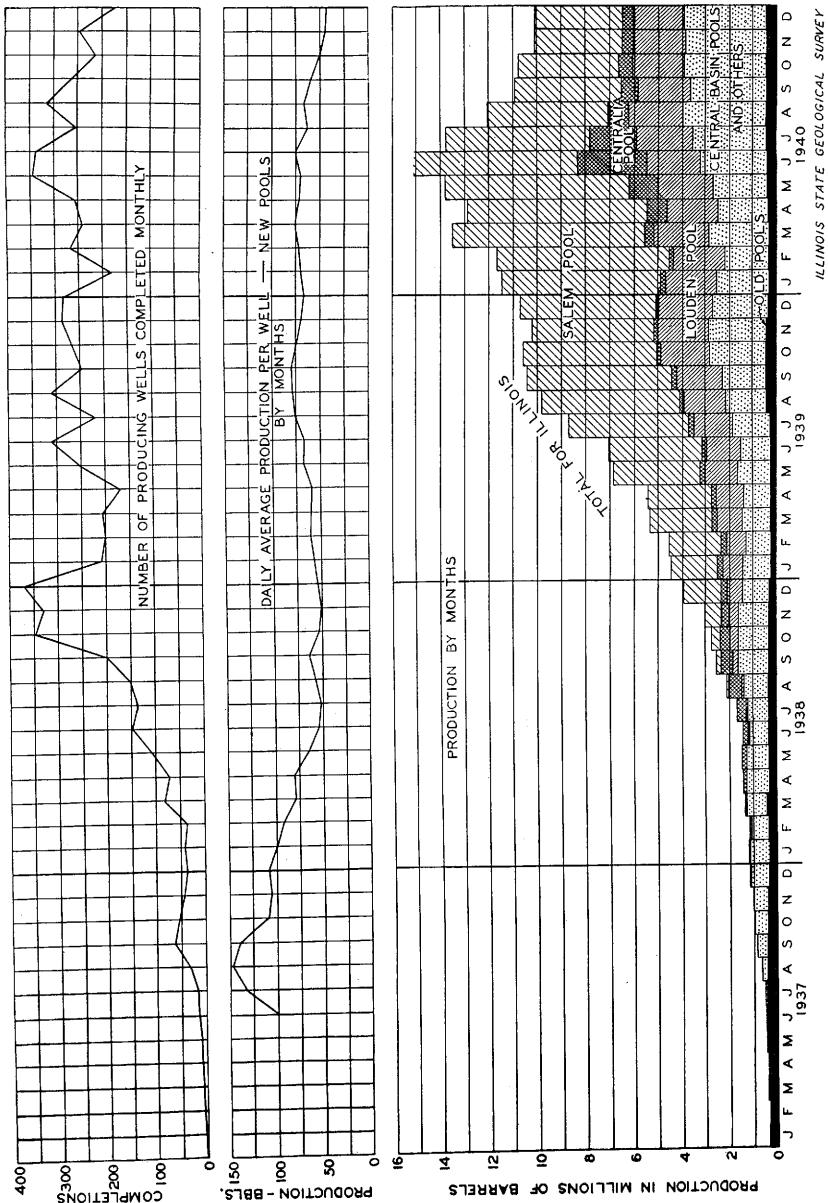


FIG. 1.—PRODUCTION, DAILY AVERAGE PRODUCTION PER WELL, NUMBER OF PRODUCING WELLS
COMPLETED MONTHLY FROM 1937 TO 1940.

a declining rate (Fig. 1, upper curve). The most active area at the end of 1940 was in the deep basin area in Wabash, Edwards, White, and Hamilton Counties.

During 1940, the wells completed numbered 3829, of which 3064 were oil producers, 16 were gas producers and 749 were dry holes (Table 2). Of the total, 523 are classified as wildcat wells and of these 48 (or 9.2 per cent) were successful in obtaining production; 30 discovered new fields and 18 discovered extensions to known fields (Table 4 and Fig. 2).

The sequence of rock strata and relative positions of the producing zones are shown in figure 3.

The results of an investigation to ascertain the reason for the locations of as many as possible of the wildcat wells are set forth in the accompanying table.

Of the 523 wildcat wells, the 303 known to have been located by scientific methods were 15 per cent successful whereas the remaining 220 were only 1.3 per cent successful. The total footage of wildcat wells drilled in 1940 was 1,092,011 ft., of

Reason for Drilling	Total Number	Successful	Per Cent
Geology, geophysics and geochemistry.....	303	45	15.0
Not based on geologic or geo-physical information.....	170	2	1.2
Unknown.....	50	1	2.0
Total.....	523	48	9.2

which a total of 121,342 ft. was drilled in successful wildcat wells.

The number of producing wells in the new fields increased from 5042 at the beginning to 7965 at the end of 1940.

There were 361 drilling operations in the state at the end of the year. As of Dec. 31, 1940, of this number 248 were in the new fields. The area proved for production in the new fields increased from 54,210 acres at the beginning of the year to 78,040 acres at the end, an increase of 23,830 acres, of which 6480 acres are in the 30 fields discovered in 1940 and the remainder, 17,350 acres, in extensions to known fields.

EXPLANATION OF TABLE 1

The field is the unit in table 1. Each space may represent one of four possibilities; either it is not applicable to the particular field, or the proper entry is not determinable, or the proper entry may be determinable but is not determinable from data available to the author, or the proper entry is determinable. Spaces that are not applicable are left blank; in spaces where the proper entries are determinable from data available to the author, *y* is inserted; *y* implies a hope that in some future year a definite figure will be available; *x* indicates that data are not known.

The entry of a 0 is a positive declaration.

The quantity of gas includes gas sold or otherwise marketed. Gas blown into the air, burned as flares or otherwise wasted is not included.

Under the columns on "Depth," the average depth to the top of the productive zone and to the bottom of the productive well, when subtracted, does not necessarily give the approximate thickness of the productive zone.

In classifying wells as to producing methods, all wells that are not "flowing" are entered in the column headed "Artificial Lift."

FOOTNOTES TO COLUMN HEADINGS—TABLE 1

^a The old Southeastern fields are listed in geographic order from north to south; all others are listed alphabetically by counties.

^b Areas where both oil and gas are produced, unless gas is marketed outside the field, are included in the column headed "Oil."

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

^d Letters indicate type of operation: PM, pressure maintenance from early life of field; RP, field repressuring in its later life.

^e Cam, Cambrian; Ord, Ordovician; Sil, Silurian; Dev, Devonian; Mis, Mississippian; MisL, Lower Mississippian; MisU, Upper Mississippian; Pen, Pennsylvanian.

^f S, sandstone; L, limestone; LS, Limestone, sandy.

^g "Por" indicates that the reservoir rock is of pore type; "Cav," cavernous type.

^h A, anticline; AM, accumulation due to both anticlinal and monoclinal structure; ML, monocline-lens; D, dome; T, terrace; N, nose.

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—Oil and Gas Production in Illinois

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	Completed to End of 1940	During 1940		Completed	Abandoned	Temporarily Shut Down
					To End of 1940	During 1940		Completed	Abandoned	Temporarily Shut Down			
1	Warrenton-Borton, Edgar	1906	100	0	30,000	345	0	0	22	0	14	0	0
2	Westfield, Clark, Coles...	1904	9,000	75	x	x	0	1,627	3	26	14	311	0
3			850	75	x	x	0	186	1	0	y	y	0
4			9,000	0	x	x	0	1,448	2	0	y	y	0
5			220	0	x	x	0	13	0	0	y	y	0
6	Siggins, Cumberland, Clark	1906	3,580	105	x	x	0	995	0	31	0	812	0
7			3,135	55	x	x	0	854	0	y	0	y	0
8			435	15	x	x	0	90	0	y	0	y	0
9			855	105	x	x	0	192	0	y	0	y	0
10	York, Cumberland.....	1906 ^y	310	40	x	x	0	70	0	0	0	44	0
11	Casey, Clark.....	1906	1,925	55	x	x	0	533	1	0	0	489	0
12			190	15	x	x	0	41	0	0	0	y	0
13			400	0	x	x	0	82	0	0	0	y	0
14			1,525	15	x	x	0	320	1	0	0	y	0
15	Martinsville, Clark.....	1907	710	155	x	x	0	215	2	10	2	112	0
16			15	20	x	x	0	7	0	y	y	y	0
17			275	35	x	x	0	63	0	y	y	y	0
18			710	0	x	x	0	22	1	y	y	y	0
19			600	0	x	x	0	34	0	y	y	y	0
20			640	0	x	x	0	39	0	y	y	y	0
21			10	0	x	x	0	2	1	y	y	y	0
22	North Johnson, Clark....	1907	1,320	20	x	x	x	485	0	0	0	433	0
23			1,115	0	x	x	x	296	0	0	0	y	0
24			160	0	x	x	x	32	0	0	0	y	0
25			820	5	x	x	x	177	0	0	0	y	0
26			215	0	x	x	x	0	44	0	0	y	0
27	South Johnson, Clark....	1907	1,715	65	x	x	x	535	0	0	0	479	0
28			185	5	x	x	x	38	0	0	0	y	0
29			295	0	x	x	x	59	0	0	0	y	0
30			1,675	35	x	x	x	402	0	0	0	y	0
31			845	5	x	x	x	170	0	0	0	y	0
32	Bellair, Crawford, Jasper	1907	1,300	5	x	x	x	486	0	0	15	380	0
33			1,165	0	x	x	x	310	0	0	y	y	0
34			315	0	x	x	x	65	0	0	y	y	0
35			910	0	x	x	x	182	0	0	y	y	0
36	Clark County Division ¹ ..	1906	19,960	520	52,723,000	335,000	y	4,946	6	67	31	3,060	0
37	Main, ² Crawford.....	1906	35,135	515	x	x	x	7,323	1	133	160	4,862	0
38			340	0	x	x	x	68	0	y	y	y	0
39			33,795	510	x	x	x	7,142	1	y	y	y	0
40			1,000	0	x	x	x	108	0	y	y	y	0
41	New Hebron, Crawford..	1909	1,350	210	x	x	x	297	0	28	0	146	0
42	Chapman, Crawford.....	1914	1,045	515	x	x	x	193	0	7	0	61	0
43	Parker, Crawford.....	1907	1,310	30	x	x	x	256	0	2	0	219	0
44	Allison-Weger, Crawford.	y	1,075	20	x	x	x	147	0	0	0	65	0
45	Flat Rock, ³ Crawford....	y	1,375	545	x	x	x	289	0	7	0	137	0
46	Birds, Crawford.....	y	4,370	115	x	x	x	684	0	11	5	449	0
47	Crawford County Division ⁶	45,665	1,945	145,908,000	1,226,000	x	y	9,189	1	188	165	5,939	0
48	Lawrence, Lawrence, Crawford	1906	24,150	1,550	x	x	x	4,405	4	58	12	3,258	0
49			5,015	35	x	x	x	1,233	1	y	y	y	0
50			2,240	0	x	x	x	475	0	y	y	y	0
51			345	1,095	x	x	x	243	0	y	y	y	0
52			15,960	220	x	x	x	3,017	0	y	y	y	0

^b Footnotes to column heads and explanation of symbols are given on page 3.¹ Total of lines 2, 6, 10, 11, 15, 22, 27, 32.² Includes Kibbie, Oblong, Robinson, and Hardinsville.³ Includes Sweeningen gas.⁴ Total of lines 37, 41, 42, 43, 44, 45, 46.

PRODUCTION IN 1940

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TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation						Deepest Zone Tested to End of 1940							
				Repressuring Operation ^d		Producing Formation											
				Avg. at End of 1940	Initial	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.						
Flowing	Artificial Lift																
1 0 0 0 0 0 0 0 0 0 0 0 0	0 311 200±	x x x x x x x x x x x x	x x x x x x x x x x x x	34.0 30.0 33.5 38.2 33.0	x x x x x x x x x x x x	0.18	Unnamed See below Shallow gas sand Westfield lime "Trenton" See below	Pen	S S L	Por Por Cav	159 281 334 2,265	215 376 446 2,568	x x x x	ML D D D D D	Pen St. Peter	715 3,009	
2 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(33.6) (25.7)	x x x x x x x x x x x x		First Siggins sand Second and third Siggins sand Lower Siggins sand	Pen	S S S	Por Por Por	367 478 556	465 562 590	x x x	D D D		Devonian	2,010
3 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(30.3) (31.9) (30.1) (33.6)	x x x x x x x x x x x x		York sand See below Upper gas sand Lower gas sand Casey sand See below Shallow sand	Pen	S S S	Por Por Por	588 263 309 444	680 358 426 505	x x x x	AM AM AM AM	MisL	960 808	
4 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(29.2) (30.1)	x x x x x x x x x x x x		Casey sand Martinsville Carper "Niagara" "Trenton"	Pen	S S S	Por Por Por	1,340 1,553 2,708	1,418 1,596 2,830	x x x	D D D	St. Peter	3,411	
5 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.9) (30.1) (33.6)	x x x x x x x x x x x x		Claypool sand Shallow sands Casey sand Upper Partlow	Pen	S S S	Por Por Por	416 314 465 534	486 451 508 554	x x x x	AM AM AM AM	Mis	965	
6 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(36.8) (31.0)	x x x x x x x x x x x x		See below Claypool sand Shallow sands Casey sand Upper Partlow	Pen	S S S	Por Por Por	392 453 489	549 518 570	x x x x	AM AM AM		Devonian	2,030
7 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(32.2)	x x x x x x x x x x x x		See below Claypool sand Casey sand Upper Partlow	Pen	S S S	Por Por Por	598	618	x x x	AM AM AM			
8 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(28.5)	x x x x x x x x x x x x		Lower Partlow	Pen	S S S	Por Por Por	561 817 886	726 907 920	x x x	AM AM AM	MisL	1,471	
9 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(33.7) (32.4)	x x x x x x x x x x x x		"500 Ft." sand "800 Ft." sand "900 Ft." sand	Pen	S S S	Por Por Por	33±	33±	x x x	AM AM AM			
10 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(30.5)	x x x x x x x x x x x x		See below	Pen	S S S	Por Por Por	508 900 1,337	822 960 1,416	x x x	ML ML A, Mis	"Trenton"	4,620 4,620 1,479	
11 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(30.1)	x x x x x x x x x x x x		Shallow sand	Pen	S S S	Por Por Por	990	25±	x x x	ML ML ML	"Trenton"	4,620 1,479	
12 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Robinson sand	Pen	S S S	Por Por Por	1,000	1,025	x x x	ML ML ML	"Trenton"	4,620 1,479	
13 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Oblong	Pen	S S S	Por Por Por	912 935	970 945	x x x	ML ML ML	"Trenton"	4,620 1,479	
14 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Robinson sand	Pen	S S S	Por Por Por	930	950	x x x	ML ML ML	"Trenton"	4,620 1,479	
15 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Robinson sand	Pen	S S S	Por Por Por	1,400	1,430	x x x	ML ML ML	"Trenton"	4,620 1,479	
16 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		See below	Pen	S S S	Por Por Por	800 1,250 1,330	1,000 1,265 1,345	x x x	A A A	St. Peter	5,190	
17 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Bridgeport sand	Pen	S S S	Por Por Por	1,250 1,330	1,000 1,265 1,345	x x x	A A A			
18 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Buchanan	Pen	S S S	Por Por Por	1,400	1,430	x x x	A A A			
19 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		"Gas" sand	MisU	S S S	Por Por Por	800 1,250 1,330	1,000 1,265 1,345	x x x	A A A			
20 0 0 0 0 0 0 0 0 0 0 0 0	y y y y y y y y y y y y	x x x x x x x x x x x x	x x x x x x x x x x x x	(31.8)	x x x x x x x x x x x x		Kirkwood	MisU	S S S	Por Por Por	1,400	1,430	x x x	A A A			

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

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

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	Completed to End of 1940	During 1940	Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^e
					1,528,000	4,460		427	19,044	17	313	222	12,495	0
53			4,020	200	x	x	x	x	688	3	y	y	y	0
54			6,950	0	x	x	x	x	958	0	y	y	y	0
55	St. Francisville, Lawrence	y	420	0	x	x	x	x	55	0	0	0	31	0
56	Lawrence County Division ^d	24,570	1,550	225,964,000	1,528,000	x	y	4,460	4	58	12	3,289	0	0
57	Allendale, Wabash.....	1912	1,680	0	4,849,000	106,000	x	y	427	6	0	0	207	0
58	Total Southeastern Fields ^s	91,855	3,970	429,474,000	3,195,345	x	y	19,044	17	313	222	12,495	0	0
59	Ayers gas, Bond.....	1922	0	325	0	0	0	194.4	13.8	19	0	0	0	7
60	Greenville gas, Bond.....	1910 ^g	0	160	0	0	0	990.0	0	4	0	0	0	0
61	Bartelso, Clinton.....	1936	580	0	739,000	378,000	0	0	0	64	24	0	0	64
62			320	0	528,000	167,000	0	0	0	40	1	0	0	40
63			230	0	211,000	211,000	0	0	0	24	23	0	0	24
64	Carlyle, Clinton.....	1911	915	0	3,402,000	29,000	0	0	0	165	0	0	40	103
65	Frogtown, Clinton.....	1918 ^h	300	0	x	0	0	0	0	12	0	0	0	0
66	Ava-Campbell Hill, Jackson	1917 ⁱ	70	370	x	0	x	0	35	0	0	0	0	0
67	Colmar-Plymouth, McDonough, Hancock	1914	2,450	0	2,673,000	121,000	x	y	482	5	0	73	213	0
68	Decatur, Macon.....	1937 ^j	10	0	1,000	0	0	0	0	2	0	2	0	0
69	Carlerville, Macoupin.....	1909 ^k	30	50	x	0	x	0	0	8	0	0	0	0
70	Gillespie-Benld gas, Macoupin	1923 ^l	0	80	0	0	0	135.8	0	4	0	0	0	0
71	Gillespie-Wyen, Macoupin	1915	40	0	x	0	0	0	0	22	0	0	12	0
72	Spanish Needle Creek gas, Macoupin	1915 ^m	0	80	0	0	0	14.4	0	7	0	0	0	0
73	Staunton gas, Macoupin.....	1916 ⁿ	0	400	0	0	0	1,050.0	0	18	0	0	0	0
74	Collinsville, Madison.....	1909 ^o	40	0	850	0	0	0	0	6	0	0	0	0
75	Brown-Langewisch Kuester-Junction City, Marion	1910	175	0	x	x	x	0	0	10	0	0	0	9
76			60	0	x	x	x	0	0	6	0	0	0	5
77			115	0	x	x	x	0	0	4	0	0	0	4
78	Sandoval, Marion.....	1909	770	0	4,181,000	721,000	0	0	0	149	4	0	0	49
79			770	0	2,680,000	14,000	0	0	0	123	0	0	0	23
80			380	0	1,501,000	707,000	x	y	26	4	0	0	26	
81	Wamac, Marion, Clinton, Washington	1921	250	0	422,000	19,000	0	0	104	0	7	0	0	36
82	Litchfield, Montgomery.....	1879 ^p	100	0	22,000	0	0	0	0	18	0	1	0	0
83	Waterloo, Monroe.....	1920 ^q	230	0	197,000	21,000	0	0	0	38	8	3	0	12
84	Jacksonville gas, Morgan.....	1910 ^r	30	1,290	0	2,100	0	x	0	53	0	0	0	0
85	Pike County gas, Pike.....	1905 ^s	0	8,960	0	0	0	x	0	68	0	0	0	0
86	Sparta, Randolph.....	1888 ^t	65	100	x	0	x	0	0	20	1	1	0	0

⁷ Total of lines 48 and 55.⁸ Total of lines 1, 36, 47, 56, 57.⁹ Abandoned 1923.¹⁰ Abandoned 1933.¹¹ Abandoned 1934.¹² Abandoned 1940.¹³ Abandoned 1925.¹⁴ Abandoned 1935.¹⁵ Abandoned 1934.¹⁶ Abandoned 1919.¹⁷ Abandoned 1921.¹⁸ Abandoned 1904.¹⁹ Abandoned 1930, revived 1939.²⁰ Abandoned 1937.²¹ Abandoned 1930.²² Abandoned 1900.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation								Deepest Zone Tested to End of 1940						
	Number of Wells	Flowing Artificial Lift			Avg. at Initial	Avg. at End of 1940	Repressuring Operation ^d	Gravity, A.P.I. at 60° F., Weighted Average	Sulphur, Per Cent.	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.					
53 0	y	650	x	x	y	x	RP	37.3	x	Tracey McCosky	MisU	S	Por	1,560	1,580	20	A	Mis	1,900
54 0	y	x	x	x	y	x			x	Bethel	MisL	L	Por	1,700	1,710	10	A	St. Peter	5,190
55 0	31	600	x	x	y	x			x		MisU	S	Por	1,843	1,865	22	ML		
56 0	3,289	x	x	x															
57 0	207	x	x	x	335	y	RP	35.1	x	Biehl sand	Pen	S	Por	1,425	1,460	20	AM	MisL	2,367
58 0	12,495									Lindley (2d)	MisU	S	Por	940	945	5	A	Devonian	2,181
59 0										Lindley (1st, 2d)	MisU	S	Por	927	993	x	A	Devonian	2,290
60 0											MisU	S	Por	984	1,008	24	D	Devonian	2,447
61 0	64	x	x	x	40	x	RP	36.2	0.20	Carlyle	MisU	S	Por	2,429	2,447	9	D		
62 0	40	x	x	x	24	x		41.5	0.27	Devonian	Dev	L	Por	1,035	1,055	20	D		
63 0	0	x	x	x	63	x		35.2	0.26	Carlyle	MisU	S	Por	950	957	7	A	St. Peter	4,120
64 0	0	x	x	x	0	x		31.9	x	Carlyle	MisU	S	Por	780	798	18	D	Cypress	962
65 0	0	x	x	x				x	x	Cypress	MisU	S	Por				A	Devonian	2,530
66 0	0	x	x	x															
67 0	213	x	x	x	RP	37.6	0.38	Hoing sand	Dev	S	Por	447	468	21	A	"Trenton"	805		
68 0	0	x	x	x	135	39.5	x	"Niagara"	Dev	L	Por	2,020	2,076	30	N	St. Peter	2,991		
69 0	0	0	x	x	155	27.7	x	Unnamed	Pen	S	Por	380	398	x	A	Pen	410		
70 0	0	0	x	x				Unamed	Pen	S	Por	542	555	x	A	Pen	575		
71 0	0	0	x	x		30.0	x	Unnamed	Pen	S	Por	650	670	x	T	"Trenton"	2,560		
72 0	0	0	x	x				Unnamed	Pen	S	Por	305	405	x	D	Pen	495		
73 0	0	0	145	x				Unnamed	Pen	S	Por	461	491	x	A	"Trenton"	2,371		
74 0	0	0	x	x				Devonian-Silurian	Dev-Sil	L	Por	1,305	1,400	20	ML	Silurian	1,500		
75 0	0	9	x	x															
76 0	5	x	x	x		32.0	x	Dykstra, Wilson	Pen	S	Por	610	630	20	D	MisL	2,001		
77 0	4	x	x	x		32.0	x	Cypress	MisU	S	Por	1,658	1,673	15	D	Devonian	3,344		
78 0	49	x	x	x															
79 0	23	x	x	x		34.5	x	Benoist	MisU	S	Por	1,540	1,560	20+	D	Devonian	3,055		
80 0	26	x	x	x		38.0	0.38	Devonian	Dev	L	Por	2,924	2,959	9	D				
81 0	36	x	x	x		30.2	x	Petro	Pen	S	Por	720	760	20	D	MisL	1,760		
82 0	0	x	x	x		23.0	0.42	Unnamed	Pen	S	Por	664	674	x	D	Pen	681		
83 0	12	x	x	x		3.02	0.79	"Trenton"	Ord	L	Por	410	460	50	A	"Trenton"	845		
84 0	0	x	x	x				Gas sand	Pen	S,SL	Por	330	335	5	ML	"Trenton"	1,390		
85 0	0	0	x	x				"Niagara"	MisL	L	Por	265	275	10	A	St. Peter	893		
86 0	0	0	x	x				Cypress	MisU	S	Por	850	857	7	D	MisU	985		

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940		During 1940		End of 1940	
					To End of 1940	During 1940		During 1940	Completed	Abandoned	Temporarily Shut Down	Producing Oil ^c	Producing Gas ^d	
87	Dupo, St. Clair.....	1928	670	0	1,275,000	182,000	0	0	263	15	0	0	64	0
88	Total for fields prior to Jan. 1, 1937 ²³	98,600	15,830	442,388,950	4,666,345	2,374,6	13,8	20,615	74	327	347	13,045	7	
89	Sorento, Bond.....	1938	30	0	4,000	3,000	0	0	3	2	2	0	1	0
90	Woburn, Bond.....	1940	180	0	93,000	93,000	0	0	24	24	0	0	24	0
91	Flora, Clay.....	1938	70	0	308,000	94,000	0	0	19	2	1	0	18	0
92		v	0	x	x	x	0	0	2	2	0	0	2	0
93			0	x	x	x	0	0	1	0	0	0	1	0
94			0	x	x	x	0	0	16	0	1	0	15	0
95	Iola, Clay.....	1939 ²⁴	20	0	8,000	3,000	0	0	2	0	2	0	0	0
96	Clay City, Clay, Wayne ..	1937	8,450	0	15,778,000	3,882,000	0	0	420	41	4	0	412	0
97		y	0	x	x	x	0	0	3	3	0	0	3	0
98		y	0	x	x	x	0	0	1	1	0	0	1	0
99		y	0	x	x	x	0	0	1	1	0	0	1	0
100		y	0	x	x	x	0	0	0	0	0	0	0	0
101		y	0	x	x	x	0	0	415	36	4	0	407	0
102	Hoffman, Clinton.....	1939	290	0	116,000	115,000	0	0	41	40	0	0	41	0
103		y	0	x	x	x	0	0	8	8	0	0	8	0
104		y	0	x	x	x	0	0	33	32	0	0	33	0
105	West Centralia, Clinton ..	1940	10	0	x	x	0	0	1	1	0	0	1	0
106	Centralia, Clinton, Marion ..	1937	2,850	0	16,520,000	10,597,000	0	0	898	345	9	3	874	0
107		y	0	x	x	x	0	0	22	1	0	0	22	0
108		y	0	x	x	x	0	0	557	26	9	1	535	0
109		2,200	0	9,100,000 ²⁵	9,100,000 ²⁵	0	0	317	316	0	1	316	0	
110		20	0	x	x	x	0	0	2	2	0	1	1	0
111	Mattoon, Coles.....	1939 ²⁵	20	0	9,000	9,000	0	0	2	1	0	0	1	0
112		10	0	x	x	x	0	0	1	0	0	0	0	0
113		10	0	9,000	9,000	0	0	1	1	0	0	0	1	0
114	Albion, Edwards.....	1940	630	0	955,000	955,000	0	0	59	59	0	0	59	0
115		y	0	x	x	x	0	0	3	3	0	0	3	0
116		y	0	x	x	x	0	0	10	10	0	0	10	0
117		y	0	x	x	x	0	0	46	46	0	0	46	0
118	Cowling, Edwards.....	1939	100	0	76,000	51,000	0	0	13	2	1	0	12	0
119	Grayville, Edwards, White	1939	80	0	95,000	66,000	0	0	8	0	3	0	5	0
120	Mason, Effingham.....	1940	10	0	9,000	9,000	0	0	1	1	0	0	1	0
121	Louden, Fayette, Effingham	1937	19,220	0	46,801,000	26,564,000	y	y	1,753	416	9	6	1,736	0
122		y	0	x	x	y	y	y	855	223	9	4	840	0
123		y	0	x	x	y	y	y	312	28	0	1	311	0
124		y	0	x	x	y	y	y	421	0	0	0	421	0
125									85	85	0	1	84	0
126									39	39	0	0	39	0
127									13	13	0	0	13	0
128									28	28	0	0	28	0
129	St. James, Fayette.....	1938	1,830	0	2,213,000	1,719,000	0	0	177	101	1	0	171	0
130		1,830	0	2,213,000	1,719,000	0	0	176	100	1	0	176	0	
131									1	1	0	0	1	0
132	Thompsonville, Franklin ..	1940	210	0	71,000	71,000	0	0	16	16	0	0	16	0
133	Whittington, Franklin ..	1939	10	0	11,000	7,000	0	0	1	0	0	0	1	0
134	Junction, Gallatin.....	1939	150	0	124,000	100,000	0	0	14	8	0	0	14	0
135	Inman, Gallatin.....	1940	40	0	4,000	4,000	0	0	4	4	1	0	3	0
136		10	0	x	x	x	0	0	1	1	0	0	1	0
137		10	0	x	x	x	0	0	1	1	0	0	1	0
138		10	0	x	x	x	0	0	1	1	1	0	1	0
139		10	0	x	x	x	0	0	1	1	0	0	1	0
140	Omaha, Gallatin.....	1940	10	0	6,000	6,000	0	0	1	1	0	0	1	0
141	Belle Prairie, Hamilton ..	1940	10	0	3,000	3,000	0	0	1	1	0	0	1	0

²³ Total of lines 58 to 87 inclusive.²⁴ Abandoned 1940.²⁵ Abandoned 1939, revived 1940.²⁶ Estimated.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴		Character of Oil	Producing Formation						Deepest Zone Tested to End of 1940						
		Number of Wells	Avg. at End of 1940		Repressuring Operation ^d	Gravity A.P.I. at 60° F. ^a Weighted Average	Sulphur, Per Cent	Name	Age ^e	Character ^f	Porosity ^g	Depth, Avg. Ft.	Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h	Name
87	0	64	x	x		32.7	0.70	"Trenton"	Ord	L	Por	601	561	50	A	"Trenton"	819
88	0	13,045							Dev	S	Por	1,830	1,893	5	D	Devonian	1,893
89	0	1	x	x		x	x	Bethel	MisU	Por	1,008	1,024	11	A	Devonian	2,454	
90	0	24	x	x		36.4	0.20		MisU	S	Por	2,594	2,614	5	D	MisL	3,100
91	0	18				x	x	Cypress	MisU	S	Por	2,788	2,800	12			
92	0	2	x	x		37.4	x	Bethel	MisU	S	Por	2,965	2,978	6			
93	0	1	x	x		37.2	0.24	McClosky	MisL	L	Por	2,335	2,351	4	D	MisU	2,383
94	0	15	x	x		35.4	0.25	Aux Vases	MisU	S	Por	2,335	2,351	4	A	MisL	3,197
95	0	0	x	x	PM												
96	1	411															
97	0	3	x	x		x	x	Cypress	MisU	S	Por	2,603	2,608	14			
98	0	1	x	x		x	x	Bethel	MisU	S	Por	2,866	2,870	5			
99	0	1	x	x		x	x	{ Aux Vases ²⁷	MisU	S	Por	2,910	3,000	8			
100								Rosiclare	MisL	S	Por	2,970	3,000	6			
101	1	406	x	x		38.5	x	McClosky	MisL	L	Por	2,995	3,058	9	D	Devonian	2,914
102	0	41															
103	0	8	x	x		x	x	Cypress	MisU	S	Por	1,185	1,201	9			
104	0	33	x	x		32.2	0.21	Bethel	MisU	S	Por	1,319	1,324	7	A	MisU	1,415
105	0	1	x	x		x	x	Bethel	MisU	S	Por	1,408	1,415	7			
106	0	874			PM												
107	0	22	x	150		36.4	x	Cypress	MisU	S	Por	1,200	1,225	19	A	"Trenton"	4,068
108	0	535	250+	50		37.4	x	Bethel	MisU	S	Por	1,355	1,378	23			
109	0	316	x	400		37.4	0.38	Devonian	Dev	L	Por	2,860	2,919	8			
110	0	1	x	x		43.2	0.28	"Trenton"	Ord	L	Por	4,020	4,120	39			
111	0	1															
112	0	0	x	x		44.1	0.16	Cypress	MisU	S	Por	1,835	1,919	25	A	St. Peter	4,908
113	0	1	x	x		36.6	0.29	McClosky	MisL	L	Por	2,000	2,027	6	A	Devonian	5,185
114	0	59															
115	0	3	x	x		x	x	Bridgeport	Pen	S	Por	1,571	1,622	10			
116	0	10	x	x		34.0	x	Waltersburg	MisU	S	Por	2,365	2,373	10			
117	0	46	x	x		40.0	0.18	McClosky	MisL	L	Por	3,108	3,157	11	D?	MisL	3,175
118	0	12	x	x		36.6	0.23	Cypress	MisU	S	Por	2,620	2,640	12	A	MisL	3,269
119	0	5	x	x		35.8	0.31	McClosky	MisL	L	Por	3,093	3,188	6			
120	0	1	x	x	PM	x	x	McClosky	MisL	L	Por	2,491	2,503	12	D	MisL	2,503
121	435	1,301															
122	169	671	500+	260		36.6	0.25	Cypress	MisU	S	Por	1,493	1,549	25	A	Devonian	3,170
123	125	186	x	340		37.8	0.24	Paint Creek Stray	MisU	S	Por	1,546	1,571	17			
124	137	284	575+	350		38.5	x	Bethel	MisU	S	Por	1,540	1,561	18			
125	4	80						Cyp., Stray ²⁷									
126	0	39						Cyp., Beth. ²⁷									
127	0	13						Stray, Beth. ²⁷									
128	0	28						Cyp., Stray, Beth. ²⁷									
129	0	171															
130	0	170	x	x		34.4	0.31	Cypress	MisU	S	Por	1,581	1,600	16	A	Devonian	3,375
131	0	1	x	x		37.8	0.16	Cypress, Stray ²⁷	MisL	L	Por	3,121	3,136	12	A	MisL	3,136
132	0	16	x	x		37.6	0.24	McClosky, St. Louis ²⁷	MisL	L	Por	2,869	2,878	9	D	MisL	3,068
133	0	1	x	x													
134	0	14	x	x		37.2	0.22	Waltersburg	MisU	S	Por	1,763	1,804	15	D	MisL	2,711
135	0	3															
136	0	1	x	x		x	x	Palestine	MisU	S	Por	1,832	1,854	10			
137	0	1	x	x		x	x	Tar Springs	MisU	S	Por	2,082	2,090	4			
138	0	0	x	x		x	x	Rosiclare	MisL	S	Por	2,803	3,007	x			
139	0	1	x	x		x	x	McClosky	MisL	L	Por	2,730	2,742	12	D	MisL	2,840
140	0	1	x	x		25.9	0.23	Palestine	MisU	S	Por	1,672	1,722	32	D?	MisL	3,578
141	0	1	x	x		37.0	0.12	McClosky	MisL	L	Por	3,457	3,578	3	D?	MisL	3,578

²⁷ Wells producing from more than one sand.

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells				
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940		During 1940	End of 1940	
					To End of 1940	During 1940		During 1940	Completed	Abandoned	Temporarily Shut Down	Producing Oil	
142	Dale, Hamilton.....	1940	550	0	329,000	329,000	0	0	25	25	0	0	25 0
143			y	0	x	x	0	0	23	23	0	0	23 0
144			y	0	x	x	0	0	2	2	0	0	2 0
145	Hoodville, Hamilton....	1940	560	0	344,000	344,000	0	0	52	52	0	0	52 0
146			y	0	x	x	0	0	50	50	0	0	50 0
147			y	0	x	x	0	0	2	2	0	0	2 0
148	Boos, Jasper.....	1940	80	0	143,000	143,000	0	0	4	4	0	0	4 0
149	Hildalgo, Jasper.....	1940	20	0	5,000	5,000	0	0	2	2	0	0	2 0
150	North Boos, Jasper.....	1940	140	0	190,000	190,000	0	0	10	10	0	0	10 0
151	West Liberty, Jasper.....	1940	710	0	271,000	271,000	0	0	31	31	0	0	31 0
152	Cravat, Jefferson.....	1939	100	0	77,000	63,000	0	0	11	5	0	0	11 0
153	Dix, Jefferson.....	1938	1,350	0	1,582,000	717,000	0	0	65	8	0	0	65 0
154	Elk Prairie, Jefferson.....	1938 ²⁸	10	0	700	0	0	0	1	0	1	0	0 0
155	Ina, Jefferson.....	1938	10	0	14,000	2,000	0	0	2	0	0	0	1 0
156	Marcoe, Jefferson.....	1938	10	0	12,000	3,000	0	0	10	1	0	0	10 0
157	Roaches, Jefferson.....	1938	120	0	245,000	175,000	0	0	1	0	0	0	10 0
158	Woodlawn, Jefferson.....	1940	10	0	x	x	0	0	1	1	0	0	1 0
159	Russellville Gas, Lawrence	1937	0	1,600	0	0	1,955,5	890.4	41	9	0	0	0 41
160			0	20	0	0	0	y	4	0	0	0	0 37
161			0	1,580	0	0	0	y	37	9	0	0	0 37
162	Patoka, Marion.....	1937	740	0	2,078,000	417,000	0	0	117	2	2	0	104 0
163			730	0	x	x	0	0	115	1	2	0	102 0
164			10	0	x	x	0	0	2	1	0	0	2 0
165	Salem, Marion.....	1938	9,060	0	122,756,000	70,136,000	y	y	2,410	829	17	5	2,386 0
166			y	0	x	x	y	y	457	34	0	0	453 0
167			y	0	x	x	y	y	149	8	0	0	149 0
168			y	0	x	x	y	y	550	158	17	1	534 0
169			y	0	x	x	y	y	8	2	0	0	8 0
170			5,000	0	27,600,000 ²⁸	27,600,000 ²⁸	y	y	540	533	0	4	535 0
171									471	33	0	0	471 0
172									231	57	0	0	231 0
173									2	2	0	0	2 0
174									1	1	0	0	1 0
175									1	1	0	0	1 0
176	Tonti, Marion.....	1939	350	0	3,469,000	2,560,000	0	0	49	14	1	1	48 0
177			y	0	x	x	0	0	4	0	0	0	4 0
178			y	0	x	x	0	0	10	6	0	0	10 0
179			y	0	x	x	0	0	29	2	1	1	28 0
180			21	0	x	x	0	0	6	6	0	0	6 0
181	Fairman, Marion, Clinton	1939	450	0	231,000	209,000	0	0	16	5	1	0	15 0
182	Raymond, Montgomery.....	1940	10	0	500	500	0	0	2	2	1	0	1 0
183	Waggoner, Montgomery.....	1940	40	0	1,000	1,000	0	0	4	4	0	0	4 0
184	Dundas, Richland.....	1939	2,160	0	2,298,000	2,062,000	0	0	88	70	0	0	88 0
185			y	0	x	x	0	0	1	1	0	0	1 0
186			y	0	x	x	0	0	87	69	0	0	87 0
187	Noble, Richland.....	1937	3,740	0	9,571,000	2,718,000	0	0	246	26	13	0	225 0
188			y	0	x	x	0	0	72	24	0	0	72 0
189			y	0	x	x	0	0	174	2	13	0	153 0
190	Olney, Richland.....	1937	520	0	962,000	209,000	0	0	37	2	2	0	35 0
191	Schnell, Richland.....	1938	40	0	150,000	22,000	0	0	4	0	0	0	4 0
192	Stewardson, Shelby.....	1939	30	0	11,000	7,000	0	0	3	2	0	0	3 0
193	Griffin, Wabash.....	1939	900	0	1,387,000	1,218,000	0	0	102	55	1	0	101 0
194			y	0	x	x	0	0	13	9	0	0	13 0
195			y	0	x	x	0	0	1	1	0	0	1 0
196			y	0	x	x	0	0	71	31	0	0	71 0
197			y	0	x	x	0	0					

²⁸ Abandoned 1940.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940		Reservoir Pressure, Lb. per Sq. In. ⁴	Character of Oil	Producing Formation	Name	Age ^e	Character ^f	Porosity ^g	Top Prod. Zone	Bottoms Prod. Wells	Net Thickness, Avg. Ft.	Structure ^h	Name	Deepest Zone Tested to End of 1940			
	Number of Wells	Flowing Artificial Lift																
				Initial														
				Avg. at End of 1940														
142	0	25		x												3,257		
143	0	23																
144	0	2																
145	3	49																
146	3	47		x														
147	0	2		x														
148	0	4		x														
149	0	2		x														
150	4	6		x														
151	0	31		x														
152	0	11		x														
153	0	65	495+		350	PM	37.6 x	0.25 x	Cypress McClosky	MisU MisL	S L	Por Por	2,678 3,143	2,708 3,185	18 16	D	MisL	3,224
154	0	0	x		x		38.0 x	0.26 x	Bethel McClosky	MisU MisL	S L	Por Por	2,952 3,146	2,975 3,224	20 14	D?	MisL	2,865
155	0	1	x		x		39.6 x	0.20 x	McClosky	MisL	L	Por	2,818 2,560	2,865 2,607	8 8	A	MisL	4,139
156	0	1	x		x		38.6 x	0.20 x	McClosky	MisL	L	Por	2,791 2,788	2,834 2,824	12 10	A	MisL	2,834
157	0	10	x		x		35.4 x	0.23 x	Bethel McClosky	MisU MisL	S L,S	Por Por	2,066 1,948	2,076 1,959	11 14	D	MisL	4,584
158	0	1	x		x		38.0 x	0.18 x	Bethel McClosky	MisU MisL	S L	Por Por	1,948 2,718	1,990 2,751	16 7	A	Devonian	2,356
159			380+		x		x	x	St. Louis	MisL	L	Por	3,002	3,007	5	D	MisL	3,650
160			x		x													
161			380+		x													
162	0	104							Pennsylvanian	Pen	S	Por	619	831	12			
163	0	102	x		x				Buchanan	Pen	S	Por	1,708	1,119	10			
164	0	2	x		x													
165	74	2,312							Bethel	MisU	S	Por	1,424	1,440	16	A	Devonian	4,618
166	0	453	272+		x		39.5 40.9	0.20 0.31	Rosiclare	MisL	S	Por	1,562	1,612	33	A	"Trenton"	2,956
167	1	148	335+		x		38.5 38.6	0.20 0.21	Bethel	MisU	S	Por	1,797	1,835	35			
168	2	532	700		x		39.0 x	0.21 x	Aux Vases	MisU	S	Por	1,813	1,865	28			
169	0	8	250+		x		39.0 x	0.28 0.28	McClosky	MisL	L	Por	1,975	2,048	17			
170	43	493	1,276		x		42.1	0.28	Salem	MisL	L	Por	2,156	2,222	17			
171	18	453							Devonian	Dev	L	Por	3,350	3,444	30			
172	10	221							Beth., Aux Vases ²⁷	MisU	S	Por						
173	0	2							McClosky,	MisL	S	Por						
174	0	1							Salem ²⁷	MisL	S	Por						
175	0	1							Beth., McClosky ²⁷	MisL	S	Por						
176	1	47							Aux Vases	MisU	S	Por						
177	0	4	x		x		x	x	McClosky ²⁷	MisU	S	Por						
178	0	10	x		x		37.0 x	0.21 0.21	Devonian	MisL	S	Por						
179	0	28	x		x		39.4 x	0.21 0.21	Bethel	MisU	S	Por						
180	1	5	x		x		x	x	Pennsylvanian	Dev	L	Por						
181	0	15	x		x		x	x	Pennsylvanian	MisU	S	Por						
182	0	1	x		x		x	x	Pennsylvanian	Pen	S	Por						
183	0	4	x		x		x	x	Pennsylvanian	Pen	S	Por						
184	57	31																
185	0	1	x		x		x	x	Cypress	MisU	S	Por	2,570	2,590	23	D	Devonian	3,547
186	57	30	1,100+		x		38.4	0.17	McClosky	MisL	L	Por	2,869	2,920	13	A	MisL	2,980
187	0	225																
188	0	72	x		x		34.6 x	0.27 0.27	Cypress	MisU	S	Por	2,544	2,639	17			
189	0	153	x		x		39.0 x	0.19 0.19	McClosky	MisL	L	Por	2,957	3,003	10	A	MisL	3,222
190	0	35	x		x		37.2 x	0.19 0.19	McClosky	MisL	L	Por	3,052	3,073	9	D	MisL	3,120
191	0	4	x		x		37.0 x	0.19 0.18	McClosky	MisL	L	Por	3,012	3,068	6	D	MisL	1,969
192	0	3	x		x		37.8 x	0.18 0.18	Aux Vases	MisU	S	Por	1,942	1,969	5	A	MisL	3,058
193	0	101																
194	0	13	x		x		38.0 x	0.17 0.17	Biehl	Pen	S	Por	1,719	1,728	11			
195	0	1	x		x		x	x	Clore	MisU	S	Por	1,811	1,823	9			
196	0	1	x		x		x	x	Tar Springs	MisU	S	Por	2,060	2,135	y			
197	0	71	x		x		x	x	Cypress	MisU	S	Por	2,444	2,480	15			

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells			
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940		During 1940	
									Completed	Abandoned	Temporarily Shut Down	Producing Oil
198			y	0	x	x	0	0	2	2	0	0
199			y	0	x	x	0	0	13	11	0	0
200	East Keensburg, Wabash.	1939	20	0	x	x	0	0	2	2	0	0
201	Keensburg, Wabash.....	1939	1,120	2,402,000	1,619,000	0	0	160	40	3	0	157
202			y	0	x	x	0	0	2	2	0	0
203			y	0	x	x	0	0	1	1	0	0
204			y	0	x	x	0	0	4	4	0	0
205			y	0	x	x	0	0	152	0	3	0
206									1	1	0	149
207	Maud, Wabash.....	1940	130	0	43,000	43,000	0	0	9	9	0	0
208			y	0	x	x	0	0	1	1	0	0
209			y	0	x	x	0	0	8	8	0	0
210	Mt. Carmel, Wabash....	1940	730	0	25,000	25,000	0	0	6	6	0	0
211			y	0	x	x	0	0	5	5	0	0
212			y	0	x	x	0	0	1	1	0	0
213	Mt. Carmel (West), Wa- bush	1939	20	0	x	x	0	0	2	0	1	0
214	Lancaster, Wabash, Lawrence	1940	320	0	341,000	341,000	0	0	28	28	1	0
215	Cordes, Washington....	1939	1,430	0	1,184,000	716,000	0	0	128	33	1	1
216	Dubois, Washington....	1939	60	0	21,000	19,000	0	0	4	3	0	1
217	Irvington, Washington...	1940	440	0	510,000	510,000	0	0	39	39	0	0
218			y	0	x	x	0	0	33	33	0	0
219			y	0	x	x	0	0	6	6	0	0
220	McKinley, Washington..	1940	10	0	4,000	4,000	0	0	1	1	0	0
221	Barnhill, Wayne.....	1939	870	0	1,230,000	637,000	0	0	63	22	1	0
222			y	0	x	x	0	0	2	2	0	0
223			y	0	x	x	0	0	60	19	1	0
224			y	0	x	x	0	0	1	1	0	0
225	Boyleston, Wayne.....	1938	1,460	0	1,527,000	1,308,000	0	0	83	58	0	0
226			y	0	x	x	0	0	1	1	0	0
227			y	0	x	x	0	0	81	56	0	0
228									1	1	0	0
229	Cisne, Wayne.....	1937	960	0	2,240,000	478,000	0	0	47	0	0	0
230			y	0	x	x	0	0	2	0	0	0
231			y	0	x	x	0	0	1	0	0	0
232			y	0	x	x	0	0	44	0	0	0
233	Enterprise, Wayne.....	1939	4,370	0	4,144,000	2,876,000	0	0	152	102	1	0
234			y	0	x	x	0	0	1	0	0	0
235			y	0	x	x	0	0	2	2	0	0
236			y	0	x	x	0	0	149	100	1	0
237	Goldengate, Wayne....	1939	30	0	x	x	0	0	3	0	2	0
238	Leech Twp., Wayne....	1938	240	0	232,000	127,000	0	0	14	5	0	0
239	Mt. Erie, Wayne.....	1938	10	0	10,000	3,000	0	0	1	0	0	0
240	North Aden, Wayne....	1938	1,100	0	1,935,000	905,000	0	0	65	5	2	0
241	Rinard, Wayne.....	1937 ²⁸	10	0	6,000	800	0	0	1	0	0	0
242	Roundprairie, Wayne...	1940	10	0	x	x	0	0	1	1	0	0
243	South Mt. Erie, Wayne..	1939	10	0	x	x	0	0	1	1	0	0
244	West Enterprise, Wayne.	1940	360	0	105,000	105,000	0	0	13	13	0	0
245			y	0	x	x	0	0	1	1	0	0
246			y	0	x	x	0	0	12	12	0	0
247	Aden, Wayne, Hamilton.	1938	360	0	244,000	101,000	0	0	8	3	0	0
248	Burnt Prairie, White....	1940	400	0	146,000	146,000	0	0	18	18	0	0
249			y	0	x	x	0	0	2	2	0	0
250			y	0	x	x	0	0	16	16	0	0
251	Calvin, White.....	1939	1,360	0	606,000	601,000	0	0	117	115	0	0
252			y	0	x	x	0	0	7	7	0	0

²⁹ Abandoned 1939, revived 1940.

TABLE 1.—(Continued)

Line Number	Oil-production Methods, End of 1940	Reservoir Pressure, Lb. per Sq. In. ⁴		Character of Oil	Producing Formation	Deepest Zone Tested to End of 1940								
		Number of Wells	Initial			Repressuring Operation ^d			Age ^e	Character f	Porosity ^g	Depth, Avg. Ft.		
						Gravity, A.P.I. at 60° F., ⁵ Weighted Average	Sulphur, Per Cent	Name						
Flowing	Artificial Lift													
198	0	2	x	x	x	37.0	0.38	Bethel	MisU	S	Por	2,570	2,576	
199	0	13	x	x	x	37.6	0.26	McClosky	MisL	L	Por	2,793	2,881	
200	0	2	x	x	x	37.6	0.26	McClosky	MisL	L	Por	2,703	2,714	
201	0	157												
202	0	2	x	x	x	x	x	Biehl	Pen	S	Por	1,753	1,764	
203	0	1	x	x	x	x	x	Clore	MisU	S	Por	1,761	1,785	
204	0	4	x	x	x	x	x	Palestine	MisU	S	Por	1,819	1,835	
205	0	149	x	x	x	38.6	0.29	Cypress	MisU	S	Por	2,433	2,454	
206	0	1						Biehl, Cypress ²⁷						
207	0	9												
208	0	1	x	x	x	x	x	Bethel	MisU	S	Por	2,120	2,132	
209	0	8	x	x	x	38.0	0.30	McClosky	MisL	L	Por	2,614	2,634	
210	0													
211	0	5	x	x	x	x	x	Cypress	MisU	S	Por	2,033	2,053	
212	0	1	x	x	x	36.6	0.36	Rosiclare	MisL	S	Por	2,368	2,411	
213	0	1	x	x	x	x	x	Tar Springs	MisU	S	Por	2,793	2,881	
214	0	27	x	x	x	39.8	0.28	McClosky	MisL	L	Por	2,683	2,700	
215	0	127	x	x	x	37.4	0.19	Bethel	MisU	S	Por	1,259	1,285	
216	0	3	x	x	x	31.0	0.26	Bethel	MisU	S	Por	1,359	1,370	
217	1	38												
218	0	33	x	x	x	37.6	0.16	Bethel	MisU	S	Por	1,537	1,550	
219	1	5	x	x	x	39.0	x	Devonian	Dev	L	Por	3,092	3,150	
220	0	1	x	x	x	x	x	Bethel	MisU	S	Por	982	1,039	
221	0	62												
222	0	2	x	x	x	x	x	{ Rosiclare ²⁷	MisL	S	Por	3,340	3,412	
223	0	59	x	x	x	37.6	0.17	McClosky	MisL	L	Por	3,385	3,412	
224	0	1	x	x	x	x	x	Salem	MisL	L	Por	3,792	3,855	
225	0	83												
226	0	1	x	x	x	x	x	Rosiclare	MisL	S	Por	3,273	3,277	
227	0	81	50+	x	x	40.2	0.14	McClosky	MisL	L	Por	3,250	3,277	
228	0	1						Rosiclare, McClosky ²⁷						
229	0	47												
230	0	2	x	x	x	38.5	x	Aux Vases	MisU	S	Por	2,982	3,029	
231	0	1	x	x	x	x	x	Rosiclare	MisL	S	Por	3,010	3,160	
232	0	44	75+	x	x	35.8	0.24	McClosky	MisL	L	Por	3,121	3,178	
233	16	135												
234	0	1	x	x	x	x	x	Aux Vases	MisU	S	Por	2,929	2,957	
235	0	2	x	x	x	x	x	{ Rosiclare ²⁷	MisL	S	Por	3,047	3,114	
236	16	132	100+	x	x	x	x	McClosky	MisL	L	Por	3,049	3,114	
237	0	1	x	x	x	34.4	0.18	McClosky	MisL	L	Por	3,377	3,399	
238	0	14	x	x	x	39.0	0.19	McClosky	MisL	L	Por	3,413	3,453	
239	0	1	x	x	x	39.8	0.18	McClosky	MisL	L	Por	3,080	3,092	
240	0	61	40+	x	x	39.0	0.17	McClosky	MisL	L	Por	3,321	3,341	
241	0	1	x	x	x	38.5	x	McClosky	MisL	L	Por	3,144	3,154	
242	0	1	x	x	x	x	x	McClosky	MisL	L	Por	3,172	3,300	
243	0	1	x	x	x	x	x	McClosky	MisL	L	Por	3,129	3,206	
244	0	13												
245	0	1	x	x	x	x	x	Aux Vases	MisU	S	Por	2,915	3,100	
246	0	12	x	x	x	x	x	McClosky	MisL	L	Por	3,018	3,071	
247	0	8	x	x	x	40.0	x	McClosky	MisL	L	Por	3,287	3,337	
248	0	18												
249	0	2	x	x	x	x	x	Rosiclare	MisL	S	Por	3,260	3,404	
250	0	16	x	x	x	37.0	0.28	McClosky	MisL	L	Por	3,425	3,432	
251	4	113												
252	0	7	x	x	x	36.0	0.19	Tar Springs	MisU	S	Por	2,211	2,223	

OIL AND GAS DEVELOPMENT IN 1940

TABLE 1.—(Continued)

Line Number	Field, County	Year of Discovery	Area Proved, Acres		Total Oil Production, Bbl.		Total Gas Production, Millions Cu. Ft.		Number of Oil and/or Gas Wells					
			Oil	Gas ^b	To End of 1940	During 1940	To End of 1940	During 1940	Completed to End of 1940	During 1940	Completed	Abandoned	Temporarily Shut Down	Producing Oil
253			y	0	x	x	0	0	18	18	0	0	18	0
254			y	0	x	x	0	0	6	6	0	0	6	0
255			y	0	x	x	0	0	31	30	0	0	31	0
256			y	0	x	x	0	0	13	13	0	0	13	0
257			y	0	x	x	0	0	12	11	0	0	12	0
258			y	0	x	x	0	0	1	1	0	0	1	0
259			y	0	x	x	0	0	1	1	0	0	1	0
260									23	23	0	0	23	0
261									4	4	0	0	4	0
262									1	1	0	0	1	0
263	Carmi, White.....	1940	10	0	500	500	0	0	1	1	0	0	1	0
264	Centerville, White.....	1940	50	0	49,000	49,000	0	0	3	3	0	0	3	0
265	Herald, White.....	1940	30	0	4,000	4,000	0	0	3	3	0	0	3	0
266			y	0	x	x	0	0	2	2	0	0	2	0
267			y	0	x	x	0	0	1	1	0	0	1	0
268	Iron, White.....	1940	760	0	1,111,000	1,111,000	0	0	46	46	0	1	45	0
269			y	0	x	x	0	0	1	1	0	0	1	0
270			y	0	x	x	0	0	27	27	0	1	26	0
271			y	0	x	x	0	0	1	1	0	0	1	0
272			y	0	x	x	0	0	17	17	0	0	17	0
273	Mill Shoals, White.....	1939	640	0	711,000	583,000	0	0	50	28	0	1	49	0
274			y	0	x	x	0	0	33	20	0	0	33	0
275			y	0	x	x	0	0	14	5	0	0	14	0
276			y	0	x	x	0	0	3	3	0	1	2	0
277	New Harmony, White....	1939	1,210	0	920,000	920,000	0	0	87	76	1	1	85	0
278			y	0	x	x	0	0	14	4	0	0	14	0
279			y	0	x	x	0	0	2	2	0	0	2	0
280			y	0	x	x	0	0	12	12	0	0	12	0
281			y	0	x	x	0	0	5	5	0	0	5	0
282			y	0	x	x	0	0	1	1	0	0	1	0
283			y	0	x	x	0	0	1	1	0	0	1	0
284			y	0	x	x	0	0	39	38	1	1	37	0
285									2	2	0	0	2	0
286									3	3	0	0	3	0
287									2	2	0	0	2	0
288									1	1	0	0	1	0
289									1	1	0	0	1	0
290									3	3	0	0	3	0
291									1	1	0	0	1	0
292	Phillipstown, White.....	1939	80	0	61,000	52,000	0	0	6	4	0	0	6	0
293			y	0	x	x	0	0	2	1	0	0	2	0
294			y	0	x	x	0	0	4	3	0	0	4	0
295	Roland, White.....	1940	10	0	3,000	3,000	0	0	1	1	0	0	1	0
296	Stokes, White.....	1939	240	0	167,000	107,000	0	0	11	5	0	0	11	0
297	Storms, White.....	1939	1,400	30	1,548,000	1,517,000	0	0	130	113	0	0	127	3
298	Total for fields after Jan. 1, 1937 ³⁰		76,410	1,630	255,685,000	142,122,000	1,955.5	890.4	8,095	3,006	83	20	7,901	44
299	Total for Illinois ³¹		175,010	17,460	698,696,000	146,788,000	4,340.1	904.2	28,710	3,080	410	367	20,946	51

³⁰ Total of lines 89 to 297 inclusive.³¹ Total of lines 88 and 298.

TABLE 1.—(Continued)

OIL AND GAS DEVELOPMENT IN 1940

TABLE 2.—Summary of Drilling and Initial Production in Illinois for 1940

County	Number of Wells Drilled in 1940			Total Initial Production		Footage Drilled in 1940	
	Total Com- ple- tions	Total Producing		Oil, Bbl.	Gas, Thou- sands Cu. Ft.	Total	Producing Wells
		Oil	Gas				
Adams.....	1	0	0	0	0	465	0
Alexander.....	1	0	0	0	0	2,019	0
Bond.....	54	26	1	1,932	2,000	74,392	30,670
Brown.....	2	0	0	0	0	1,380	0
Bureau.....	3	0	0	0	0	2,270	0
Cass.....	1	0	0	0	0	1,070	0
Christian.....	1	0	0	0	0	1,330	0
Clark.....	15	5	1	51	10	24,930	7,971
Clay.....	37	23	0	3,066	0	111,212	69,247
Clinton.....	450	369	0	416,641	0	1,130,516	959,806
Coles.....	9	1	0	121	0	19,942	2,027
Crawford.....	13	1	0	12	0	31,548	2,981
Cumberland.....	1	0	0	0	0	710	0
DeKalb.....	1	0	0	0	0	520	0
DeWitt.....	1	0	0	0	0	1,570	0
Douglas.....	2	0	0	0	0	1,245	0
Edgar.....	10	0	0	0	0	7,090	0
Edwards.....	79	62	0	25,863	0	242,954	181,921
Effingham.....	12	3	0	488	0	25,563	5,629
Fayette.....	577	515	0	92,163	0	1,006,255	895,656
Ford.....	1	0	0	0	0	2,225	0
Franklin.....	20	16	0	4,138	0	62,819	50,200
Fulton.....	1	0	0	0	0	815	0
Gallatin.....	24	12	0	770	0	54,249	25,130
Greene.....	1	0	0	0	0	750	0
Hamilton.....	92	78	0	15,340	0	275,545	228,956
Hancock.....	2	1	0	1	0	1,057	372
Henderson.....	1	0	0	0	0	802	0
Henry.....	1	0	0	0	0	725	0
Iroquois.....	1	0	0	0	0	1,485	0
Jackson.....	5	0	0	0	0	10,285	0
Jasper.....	63	47	0	34,660	0	179,161	134,047
Jefferson.....	33	16	0	1,233	0	75,819	32,331
Jersey.....	3	0	0	0	0	4,265	0
Johnson.....	1	0	0	0	0	4,165	0
Knox.....	1	0	0	0	0	1,355	0
Lawrence.....	28	6	9	162	95,321	49,347	23,532
Logan.....	1	0	0	0	0	1,535	0
McDonough.....	9	3	0	2	0	7,737	1,381
Macon.....	4	0	0	0	0	9,524	0
Macoupin.....	9	0	0	0	0	5,394	0
Madison.....	7	0	0	0	0	15,120	0
Marion.....	952	890	0	944,925	0	2,794,599	2,636,964
Massac.....	2	0	0	0	0	5,365	0
Menard.....	1	0	0	0	0	1,063	0
Monroe.....	16	8	0	412	0	13,878	5,106
Montgomery.....	40	6	0	122	0	37,319	4,135
Peoria.....	1	0	0	0	0	1,011	0
Perry.....	8	0	0	0	0	14,866	0
Pike.....	4	0	0	0	0	1,571	0
Pope.....	2	0	0	0	0	3,090	0
Randolph.....	9	1	0	5	0	10,954	938
Richland.....	111	99	1	31,277	5,000	321,696	285,759
St. Clair.....	24	15	0	1,207	0	19,523	8,599
Saline.....	5	0	0	0	0	14,699	0
Schuylerville.....	7	0	0	0	0	5,407	0
Scott.....	1	0	0	0	0	935	0
Shelby.....	11	2	0	57	0	23,357	4,102
Tazewell.....	2	0	0	0	0	1,675	0
Wabash.....	202	142	0	23,707	0	497,737	345,826
Washington.....	102	76	0	9,284	0	158,133	117,602
Wayne.....	265	229	0	68,179	0	855,462	728,125
White.....	479	412	4	77,355	70,750	1,325,101	1,133,451
Williamson.....	5	0	0	0	0	10,488	0
Woodford.....	2	0	0	0	0	3,945	0
Total.....	3,829	3,064	16	1,753,171	173,081	9,573,034	7,922,464

ECONOMIC DATA

On the basis of posted prices, the total value of the oil produced in 1940 was approximately \$158,746,200. The average price calculated from the available data on production and prices for the state was \$1.05 per barrel to Aug. 21 and \$1.15 per barrel for the remainder of the year. Posted prices for Illinois crude oil in 1940 were as shown in Table 3.

TABLE 3.—*Posted Prices for Illinois Crude in 1940*

Beginning Date	Oct. 21, 1939	May 25, 1940	Aug. 1, 1940	Aug. 21, 1940	Dec. 31, 1940
Old fields.....	\$0.95	\$0.95	\$0.95	\$1.00	\$1.00
Central basin fields.....	1.05	1.05	1.05	1.15	1.15
Salem area.....	1.05	1.05	1.05	1.15	1.15
Griffin area.....	0.95	1.00	1.05	1.15	1.15

In 1940, a total of 9,573,034 ft. of hole was drilled in the state. Of this amount 7,922,464 ft. was drilled in producing wells. If an average cost of \$3.00 per foot is assumed, the total investment in drilling was \$28,719,102, including both producing wells and dry holes. The average depth of all wells drilled in the state in 1940 was 2500 ft., which is almost 500 ft. deeper than a year ago. This difference is accounted for in the development of deeper "pays" in proven fields and exploration in the deep basin area.

The average initial daily production of the oil wells was 573 bbl., an increase of 195 bbl. per well over last year's figure. The increase is due to the large Devonian wells in Salem and Centralia fields.

PIPE LINES AND REFINERIES

Pipe-line construction in Illinois was less extensive in 1940 than in the previous year. The construction of crude-oil lines was principally to provide outlets for the new fields in Wabash, White and Hamilton Counties. It is estimated that the total daily capacity of the crude-oil lines in the state is approximately 550,000 bbl. Pipe-line construction in Illinois during 1940 was as follows:

Crude Oil

Illinois Pipe Line Co.—16 miles 8-in., 40 miles 10-in., Enfield, Ill., White County, to Bridgeport, Ill.; 8 miles 10-in. "loop," Sandoval to Patoka.

Texas Company.—42 miles 10-in. "loop," Salem field to Heyworth; 38 miles 12-in. "loop," Heyworth to Wilmington.

Shell Oil Co., Inc.—6 miles 8-in., Centralia field to Sandoval, Ill.

Superior Oil Co.—28 miles 6-in., Albion pool to Mt. Vernon, Ind.

Sohio Pipe Line Co.—32 miles 4-in., Dale field to Mt. Vernon, Ind.

Gulf Refining Co.—10 miles 6-in. and 8-in., Centralia field to trunk line near Boulder, Ill.

Sun Oil Co.—11 miles 6-in., Centerville field to New Harmony field.

Hal R. Compton.—35 miles 4-in. outlets to fields in White, Wabash, Edwards Counties.

Gasoline

Lawrence Pipe Line Co.—55 miles 6-in. gasoline line Lawrenceville, Ill. to Mt. Vernon, Ind.

Natural Gas

Panhandle Eastern Pipeline Co.—28 miles 24-in., 50 miles 22-in., 24 miles 20-in. loops in line across central Illinois.

Natural Gas Pipe Line Co. of America.—under construction, 162 miles 20-in. Geneseo, Ill. to Milwaukee, Wis.

Early in 1940 the capacities of most refineries in the state were enlarged in order to handle the increased supply of Illinois crude oil. The Wood River Oil and Refining Co. constructed a new refinery near Wood River, Ill., with a daily capacity of 7500 bbl. This brings the total capacity of all refineries in the state up to 258,750 bbl. daily, an increase of 65,400 bbl. over the capacity a year ago.

Owing to the decline in production during the latter part of 1940, and the increased price of crude oil, eight small refineries having a capacity of 2000 bbl. or less per day, located near the new fields in southern Illinois shut down operations. At the end of the year 21 of the 29 refineries in the state were in operation.

TABLE 4.—Discovery Wells of New Fields and Extensions in Illinois for 1940

Field, County	Company and Farm	Location	Producing Formation			Initial Production, Bbl.	Date of Completion of Well	Number of Wells in Pool 12-31-40
			Total Depth, Ft.	Depth to Top, Ft.	Name			
Albion, <i>Edwards</i>	Noah & Morrison, Barnes No. 1	SSE NE 24-2S-10E	3,240	3,130	McClosky limestone	132	3-26-40	55
Barn Hill, <i>Warren</i>	M. L. O. U. Corporation, French No. 1	SSE SE 4-3S-8E	3,496	3,491	McClosky limestone	248	10-29-40	63
Bartleson, <i>Custer</i>	Snell and Goldschmidt, Snaffer No. 1	SW NW NW 3-2N-3W	2,535	2,500	Devonian limestone	4	12-3-40	64
Belle Prairie, <i>Hamilton</i>	Kingwood Oil Co., Williams No. 1	CS SE NE 3-4S-6E	3,470	3,467	McClosky limestone	50	11-10-40	1
Boos, <i>Jasper</i>	Pure Oil Co., Warren Consolidated No. 1	NE NE NW 2-3S-10E	2,847	2,822	McClosky limestone	348	3-19-40	4
Boyleston, <i>Wayne</i>	H. H. Weinert, Inc., C. Bright No. 1	C N NW 2-2S-7E	3,340		McClosky limestone	91	11-12-40	88
Bishop, Harrington, Busch, Griffin No. 1	Burnt Prairie, <i>White</i>	SE SE SW 28-3S-9E	3,505	3,445	McClosky limestone	103	1-23-40	18
Hayes and Graad, Good No. 1	Burnt Prairie, <i>White</i>	NW NW NW 28-3S-9E	3,486	3,482	McClosky limestone	125	10-8-40	18
Patton, Reeves No. 1	Burnt Prairie, <i>White</i>	NW NW SB 28-3S-14W	2,617	2,598	Cypress sandstone	138	12-10-40	118
Carvin, <i>White</i>	Mazda Oil Co., Storms No. 1	SW SE 26-5S-9E	3,167	3,148	McClosky limestone	65	12-10-40	1
Centerville, <i>White</i>	San Oil Co., Brown No. 1	CS SE NW 2-4S-9E	3,375	3,341	McClosky limestone	631	5-28-40	3
Dale, <i>Hamilton</i>	Kingwood and Exchange, Prince No. 1	NW NW NW 6-6S-9E	2,695	2,662	Cypress sandstone	115	3-26-40	25
Dale, <i>Hamilton</i>	Carter Oil Co., Daglev No. 1	NW NW NW 31-5S-7E	3,257	3,126	McClosky limestone	148	12-3-40	25
Erauld, <i>White</i>	Johnson O. & R. Co., Mendham No. 1	NW NW NE 11-7S-9E	1,516	1,502	Pennsylvanian sandstone	55	9-4-40	3
Fiddaloo, <i>Jasper</i>	Kingwood, Morris No. 1	SW SE 17-8N-10E	2,607	2,536	McClosky limestone	175	9-4-40	2
Floodville, <i>Hamilton</i>	Colbeck et al., Duffey No. 1	SW SE NE 25-5S-6E	3,200	3,189	McClosky limestone	150	7-16-40	52
Imman, <i>Gallatin</i> ¹	Colbeck, Beyantin T. & T. No. 1	NE NW NW 19-8S-9E	3,007	2,803	Rosiclar sandstone	7	4-9-40	3
Iron, <i>White</i>	J. W. Carter et al., O. Johnson No. 1	SW NW 19-8S-10E	2,742	2,730	McClosky limestone	200	10-8-40	3
Iron, <i>White</i>	Merer Bros., Chapman No. 1	NE NE NW 26-6S-8E	2,528	2,485	Hardinsburg sandstone	635	2-6-40	46
Irvington, <i>Washington</i>	Gulf Refining Co., Buhl No. 1	NE NE SE 23-3S-1W	3,077	3,055	McClosky limestone	440	7-30-40	46
Lancaster, <i>Lawrence</i>	Riddle et al., Seibert No. 1	NE NE SE 4-1N-13W	1,538	1,519	Bethel sandstone	683	7-2-40	39
Mason, <i>Effingham</i>	United Drill & Prod. Co., Fornhoff No. 1	SW NW SE 27-2N-13W	2,743	2,664	McClosky limestone	500	4-2-40	29
Mattoon, <i>Coles</i>	Katpatrick, Mason Community No. 1	NE SE 2B-2-6N-5E	2,721	2,694	McClosky limestone	20	11-19-40	29
Mound, <i>Wabash</i>	Carter Oil Co., J. Seaman No. 1	SE NE SW 35-12N-7E	2,503	2,491	McClosky limestone	376	12-3-40	1
Lambert, Steier, No. 1	DeKalb et al., Hunleth No. 3	SE SW 27-1S-13W	2,027	2,002	McClosky limestone	121	6-4-40	1
McKinley, <i>Washington</i>	Delta Drilling Co., Utter No. 1	SW NE NW 29-3S-4W	2,626	2,615	McClosky limestone	192	6-18-40	9
Mt. Carmel, <i>Wabash</i>	Borden, McCallister No. 1	SW NE 17-1S-12W	1,866	982	Bethel sandstone	165	12-17-40	1
New Harmony, <i>White</i>	Pure Oil Co., Bergbauer No. 1	NB SE NE 7-12N-14W	2,050	2,014	Cypress sandstone	19	1-30-40	6
North Boos, <i>Jasper</i>	Conner and Arnold, Swick No. 1	CE NE SE 16-6N-10E	2,911	2,842	Aux Vases sandstone	130	12-17-40	88
North New Harmony, <i>White</i>	Superior, Fifteen No. 2	SE SE NE 17-6N-10E	2,882	2,800	McClosky limestone	200	7-9-40	9
Oratka, <i>Gallatin</i>	Carter Oil Co., York No. 1	NE NE SW 27-4S-14W	2,296	2,225	Tar Springs sandstone	746	9-10-40	9
Phillipstown, <i>White</i>	Neff, Garner No. 1	SW SW SW 33-7S-8E	1,722	1,672	Palestine sandstone	90	7-16-40	1
Raymond, <i>Montgomery</i>	Henderson Bros., Osternreiter No. 1	SW SW SW 36-4S-10E	2,971	2,953	Aux Vases sandstone	275	12-10-40	1
Roland, <i>Montgomery</i>	Gulf Refining Co., Moore No. 1	NW NW NW 30-10N-4W	2,642	618	Pennsylvanian sandstone	168	10-1-40	6
Roundsprairie, <i>White</i>	Kingwood, Martin No. 1	CN SE SE 12-10N-5W	598		Pennsylvanian sandstone	12	2-7-40	1
Lessing Alch, <i>Wayne</i>	Lessing Alch, Tiekey No. 1	NW SW NE 13-7S-8E	2,248	2,244	Tar Springs sandstone	36	7-2-40	1
Gates and Lichtry, <i>Aud</i> , No. 1	Stamps, <i>White</i>	C S SE NE 3-1S-6E	3,300	3,172	McClosky limestone	10	6-18-40	1
Thompsonville, <i>Franklin</i>	Manley Oil Co., Downen No. 1	NE NE SW 27-4S-9E	2,764	2,328	Waltersburg sandstone	33	1-16-40	130 ⁴
Tomi, <i>Marion</i>	Texas Company, Chance No. 1	SW SW SW 26-5S-4E	3,118	3,102	McClosky limestone	800	10-1-40	16
Randall, Street No. 1	NW NW SW 4-2N-2E	2,235	2,154	McClosky limestone	28	10-15-40	53	
Sistler, Phoenix No. 1	West Centralia, <i>Clinton</i>	NW NW SW 31-1N-5W	625	611	Bethel sandstone	25	7-30-40	4
West Enterprise, <i>Wayne</i>	Pure Oil Co., Mackin No. 1	NW NW SW 14-1N-1W	1,415	1,408	McClosky limestone	664	10-1-40	1
West Liberty, <i>Jasper</i>	Pure Oil Co., M. Addridge No. 1	EN NW NW 1-1N-1W	3,036	3,011	McClosky limestone	1,422	7-9-40	15
West Liberty, <i>Jasper</i>	Shieck, Payne Herts No. 1	CS NE NW 5-5N-10E	2,850	2,790	McClosky limestone	1,789	6-4-40	32
Woburn, <i>Bond</i>	National Refining Co., Spindler No. 1	NW NW NW 10-6N-2W	1,021	1,009	Bethel sandstone	209	11-26-40	24
Worlawn, <i>Efferson</i>	Obering and Phillips, Howe No. 1	NE SW SW 25-5S-1T	1,990	1,974	Bethel sandstone	60	8-13-40	1

¹ Formerly considered a new pool; now classed as extension to New Harmony pool.² Gas, millions cubic feet.³ Includes three gas wells.

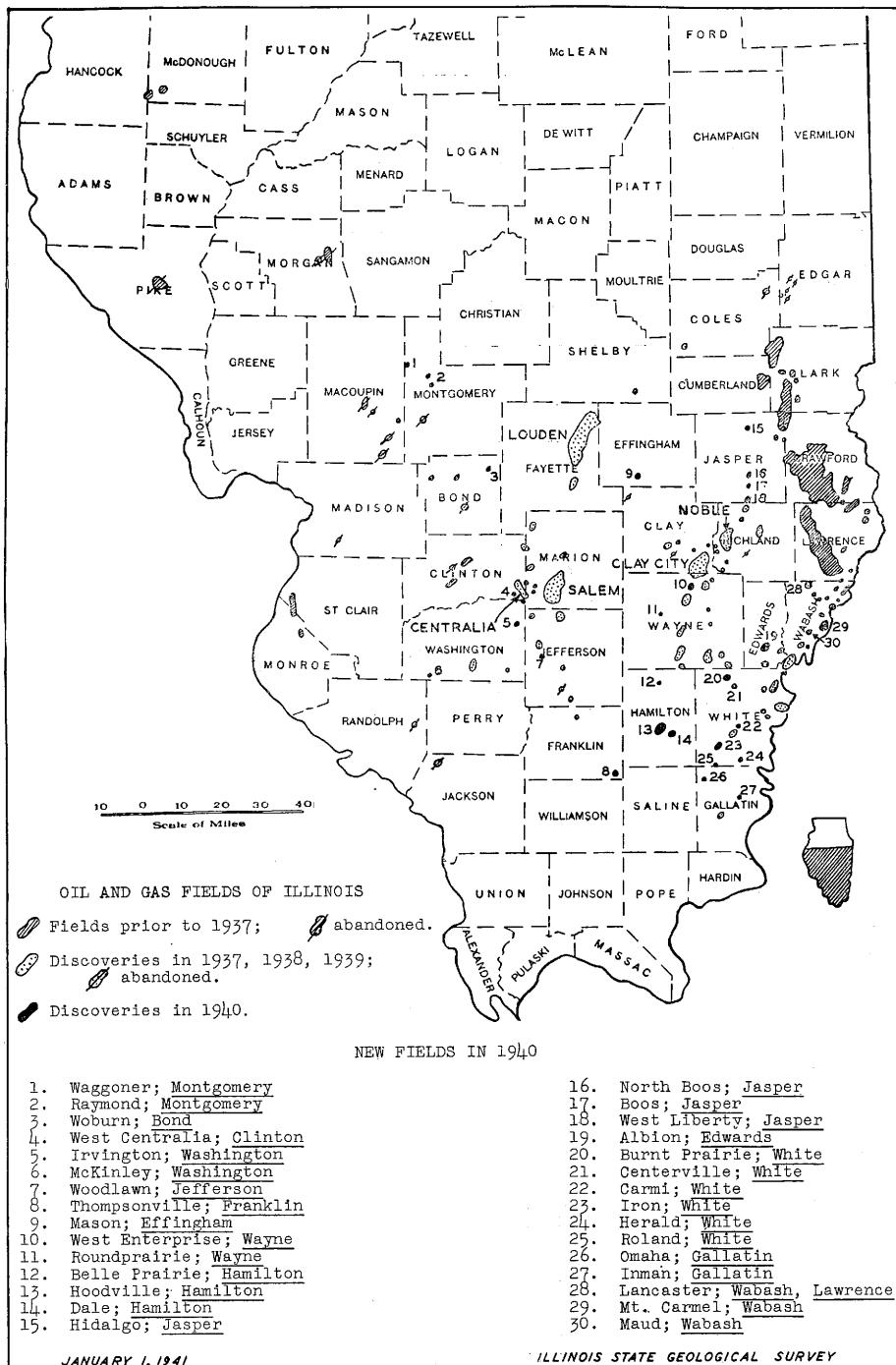


FIG. 2.—OIL AND GAS FIELDS OF ILLINOIS, LISTING THE DISCOVERIES IN 1940.

TABLE 5.—*Important Deep Tests in Illinois in 1940*

County	Pool or Wildcat	Location	Company	Farm No.	Total Length. Ft.	Deepest Formation Tested	Top, Ft.	Re- marks	Date Com- pleted
Clinton.....	Centralia	NW NE NE SE NE SE SW NE SW SW NE SE	Borton	Storer 1	4,120 4,070 PB 4,120	"Trenton"	4,012	100 bbl.	12-3-40
Clinton.....	Carlyle	13-1N-1W 3-2N-3W 3-2N-3W 12-1N-1W	Schwarz	Schlaffy 1	4,106	St. Peter	4,106	Dry	1-7-41
Clinton.....	Centralia	NE SW	Ames	Hicks 2	4,068	"Trenton"	4,018	120 bbl.	7-2-40
Clinton.....	Wildcat	17-3N-4W 17-3N-4W SW SE SE 33-2N-4W	Tatum	Schrage 1	3,549	St. Peter	3,516	Dry	7-16-40
Clinton.....	Wildcat	35-12N-7E NW NE SW	Trumbell	Peters 1	3,305	"Trenton"	3,210	Dry	7-23-40
Coles.....	Mattoon	19-2S-1E	Carter	Seaman 1	4,908	St. Peter	4,689	Dry	5-14-40
Edwards.....	Albion	SE SE NE	Superior Oil	Green 1	5,185	Devonian	4,907	Dry	7-9-40
Edwards.....	Wildcat	36-2S-10E SW SE SE	Superior Oil	Scott 1	5,196	Devonian	4,951	Dry	8-27-40
Jackson.....	Wildcat	35-8S-5W SW SW SW	Trumbell	Bennett 1	2,950	"Trenton"	2,755	Dry	9-24-40
Jackson.....	Wildcat	32-10S-3W SE SE NE	Manolin	Baysinger 1	2,294	St. Peter	2,288	Dry	9-20-40
Jasper.....	Wildcat	9-8S-3W	Magnolia Petr.	Smith 1	3,893	"Trenton"	3,705	Dry	12-31-40
Marion.....	West Liberty	C 1/2 NW NW 16-5N-10E SW SE SW	Pure Oil	Redman 1	4,584	Devonian	4,316	Dry	7-9-40
Marion.....	Sandoval	4-2N-1E SW NE SW	Martin	Robinson 1	5,023	St. Peter	4,978	Dry	1-14-41
Marion.....	Salem	29-2N-2E C 1/2 NE NW	P. Ross	Brooks 8	4,618	"Trenton"	4,505	130 bbl.	2-4-41
Marion.....	Fairman	18-3N-1E NE NE SW	Shell Oil	Ververs 6-C	4,100	"Trenton"	3,927	Dry	10-29-40
Marion.....	Patoka	28-4N-1E SE SW SE	Jones et al.	Majonni 2	2,956	Devonian	2,886	Dry	3-5-40
Monroe.....	Wildcat	10-1S-10W SW NW SW	Hoffer	Boyer 2	2,270	Cambrian	2,200	Dry	8-13-40
Randolph.....	Wildcat	16-7S-7W C E 1/2 SE NE	Anderson	Cassout 1	1,698	"Trenton"	1,555	Dry	8-13-40
Wayne.....	Cisne	27-1N-7E SW NW SW	Pure Oil	Billington 3	7,207	St. Peter	7,114	Dry	5-14-40
Wayne.....	N. Aden	33-2S-7E C 1/2 NW NW	Rockhill	Twist A-7	5,393	Devonian	5,135	Dry	8-6-40
White.....	Phillipstown	31-4S-1E NW SW NE	Phillips Petr.	Garr 1	5,349	Devonian	4,885	Dry	5-14-40
White.....	Wildcat	13-7S-8E	Kingwood	Martin 1	5,225	Devonian	4,888	Dry	7-2-40

During the year, 79.5 per cent of Illinois' crude-oil production was sent to refineries in the Central refining district (Illinois, Indiana, Kentucky, Michigan, and western Ohio), 16.0 per cent to the Appalachian refining district (eastern Ohio, western New York, western Pennsylvania, and West Virginia), and 4.5 per cent to the Atlantic seaboard. For December 1940 the runs to stills in the Central and Appalachian refining districts were 23,196,000 bbl. Of this amount, Illinois production was 44.7 per cent. Stocks of crude petroleum on hand in Illinois on Dec. 31, 1940, were 13,944,000 bbl., as compared with 12,983,000 bbl. on Dec. 31, 1939. Stocks of refined products in the Central and Appalachian refining districts compared with the previous year are as follows:

Product	Dec. 31, 1940, Bbl.	Dec. 31, 1939, Bbl.
Gasoline.....	19,305,000	17,465,000
Gas oil and distillate fuel.....	9,665,000	4,759,000
Residual fuel oil.....	3,248,000	3,514,000

PRODUCTION OF NATURAL GAS

Natural gas was marketed from the Ayers and Russellville gas fields and the Salem and Louden oil fields during 1940. The Ayers gas field, in Bond County, produced 13,777,300 cu. ft. of gas in 1940, which brings the total production from the field to 194,403,400 cu. ft. Production is at an average depth of 940 ft. from the Aux Vases sandstone of the Chester series. The field has a productive area of 325 acres and the average thickness of the "pay" is 5 ft. Seven wells are producing, none of which was new in 1940. They supply gas to the city of Greenville, Illinois.

Continued development during 1940 in the Russellville gas field in northeastern Lawrence County increased the productive acreage to 1600 acres, which is 680 acres more than a year ago. As of Jan. 1, 1941, there were 41 producing wells in the field. Production is from the Buchanan sand of lower Pennsylvanian age, which is encountered at a depth of 1090 ft. The average thickness of the "pay" is 10 ft. The total production for the field to the end of 1940 was 1,955,500,000 cu. ft., 890,400,000 cu. ft. being produced in 1940.

TABLE 6.—*Illinois Completions and Production Since Jan. 1, 1936*

Date	Number of Com- pletions	Num- ber of Pro- duc- ing Wells	Production, ¹ Thousands Bbl.		
			New Fields	Old Fields ²	Total
1936.....	92	52			4,445
1937.....	449	292	2,884	4,542	7,426
1938.....	2,541	2,010	19,771	4,304	24,075
1939.....	3,675	2,970	90,908	4,004	94,912
1940:					
Jan.....	234	183	11,172	328	11,500
Feb.....	306	268	11,372	355	11,727
March.....	281	242	13,244	336	13,580
Apr.....	286	254	12,564	347	12,911
May.....	399	342	13,427	406	13,833
June.....	391	338	14,793	401	15,194
July.....	341	251	13,381	424	13,805
Aug.....	414	313	11,640	435	12,075
Sept.....	333	262	10,520	405	10,925
Oct.....	280	213	10,365	430	10,795
Nov.....	328	245	9,702	387	10,089
Dec.....	236	169	9,957	397	10,354
	3,829	3,080	142,137	4,651	146,788

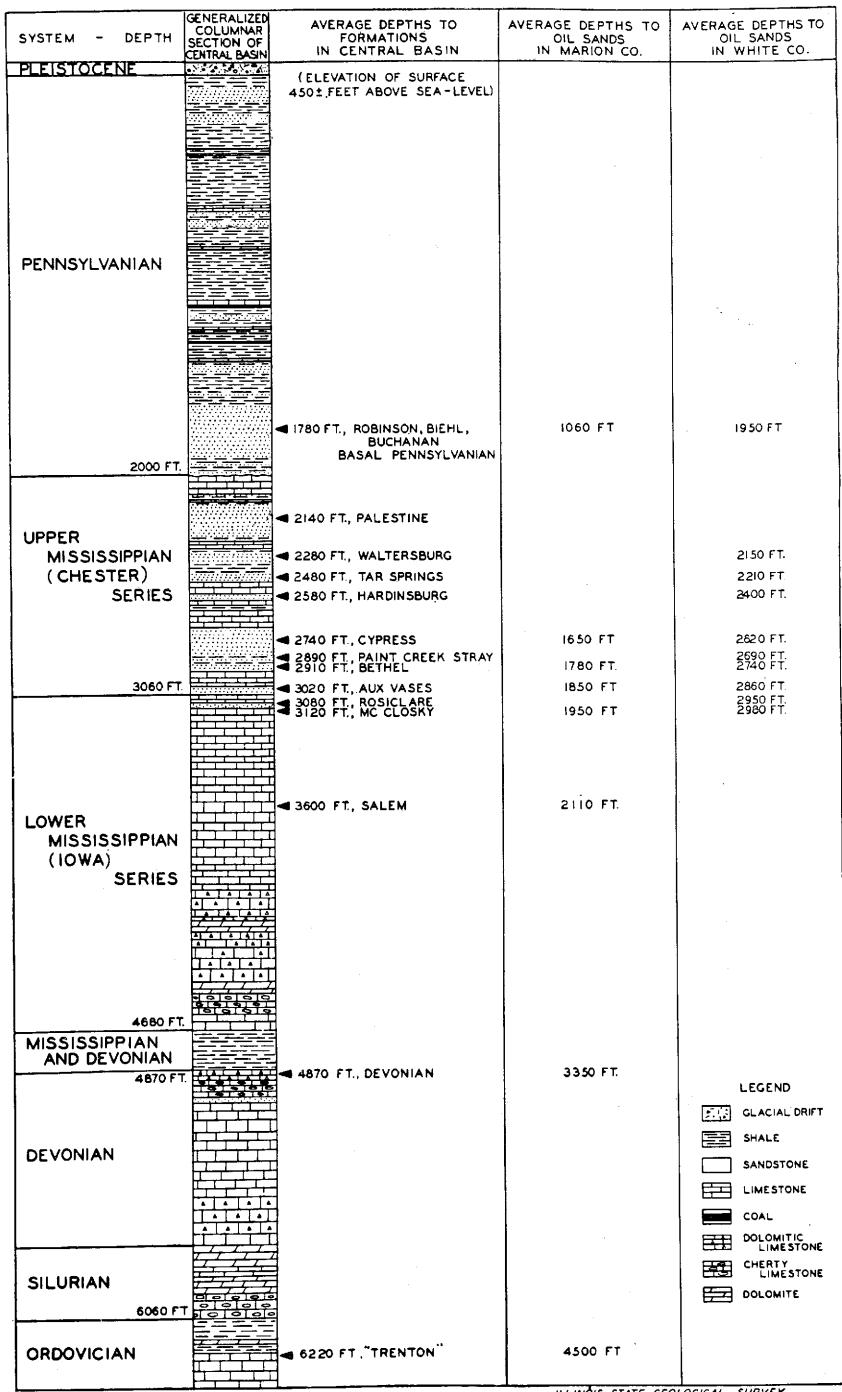
¹ The figures for total production are from the U. S. Bureau of Mines; other figures are from various sources.

² Includes Devonian production at Sandoval and Bartelso.

Natural-gas production for 1940 in the Louden field is estimated to be approximately 11 billion cu. ft. The average daily production in December 1940 was estimated to be 28,000,000 cu. ft. Of this amount 10,000,000 cu. ft. of gas was processed in the Carter Oil Company's two natural-gasoline plants. There is a shrinkage of 2,800,000 cu. ft. of gas in the plants, which is accounted for in the natural gasoline, butane, and propane produced and in fuel for plant operation. The total yield of natural-gasoline butane and propane is approximately 3.2 gal. per thousand cubic feet of "wet" gas. Two and one-half million cubic feet of the "dry" residue gas was injected daily into the producing sands through 63 input wells.

The Town of St. Elmo, Ill. and local industries are supplied by the Monarch Gas Co. with this residue gas from the natural-gasoline plants and from a lease in the field that is producing "dry" gas from a basal Pennsylvanian sandstone, encountered at a depth of 1071 ft. The amount of residue gas marketed during 1940 was 215,376,000 cu. ft. and the amount of gas marketed from the lease was 13,575,000 cu. ft. The Monarch Gas Co. constructed a pipe line to Brownstown, Ill., to supply the town with natural gas starting about Jan. 1, 1941.

OIL AND GAS DEVELOPMENT IN 1940



JANUARY 1, 1941

ILLINOIS STATE GEOLOGICAL SURVEY

FIG. 3.—ROCK SERIES AND OIL-PRODUCING STRATA IN ILLINOIS BASIN AREA.

In the Louden field during December 1940, approximately three million cubic feet of "wet" gas was used daily in field operations and the remaining 15,000,000 cu. ft. was burned in flares.

The production of natural gas with the oil in the Salem field for 1940 is estimated to be 71 billion cu. ft. The average daily production for December is estimated to be 117,000,000 cu. ft. Of this amount 52 million cu. ft. of gas was processed daily in the three natural-gasoline plants in the field. The plants are owned and operated by the Texas Company, Warren Petroleum Co., and the Sunflower Natural Gasoline Co. The total yield of natural gasoline, butane, and propane is approximately 2.6 gal. per thousand cubic feet of "wet" gas.

The city of Salem, Ill., is using residue gas from the Sunflower Natural Gasoline Company's plant and the Warren Petroleum Company's natural-gasoline plant in the Salem field. The city began to use the gas about Oct. 1, 1940, and is taking approximately 350,000 cu. ft. daily.

A small amount of the gas produced in the field is used in field operations and the remainder of the "wet" gas and the "dry" gas not marketed or returned to the producing formation is burned in flares.

Natural-gas production in the Centralia field during 1940, which was principally from the Devonian limestone, was estimated to be approximately 10 billion cu. ft. Gas production in the field was greatest during the development of the Devonian limestone early in 1940, when the gas-oil ratio was 2000 cu. ft. per barrel. During December 1940, it was estimated that the gas production was approximately 4,000,000 cu. ft. daily. Natural gas from the Devonian limestone is used in repressuring the Cypress and Bethel sandstones on two leases in the field. In three input wells 100,000 cu. ft. of gas daily is injected in the Bethel sandstone and 60,000 cu. ft. of gas is injected daily in the Cypress sandstone through one input well.

The total volume of gas produced in the Storms field, White County, during 1940 was estimated to be approximately 22 billion cu. ft. The daily production during December was estimated to be 18,000,000 cu. ft. This is a considerable decrease from the beginning of the year, when the production was estimated to be

100,000,000 cu. ft. daily. As of Jan. 1, 1940, there were 130 producing wells in the field, three of which were strictly gas wells that were shut in. The initial production of gas produced with the oil in some wells completed in the field during 1940 was as much as 30,000,000 cu. ft. daily. As yet no gas has been marketed from the field.

Gas production in the Central basin fields in Jasper, Richland, Clay, Wayne, and Northwestern White Counties has declined during 1940, particularly in the older fields such as Clay City and Noble. The total gas production during 1940 for this area is estimated to be approximately 16 billion cu. ft. with a daily production of approximately 45,000,000 cu. ft. None of the gas is marketed, but much is used in lease operations and heat treatment of the oil.

Natural gas was discovered in the W. N. Lee et al.-Thomas Sharf No. 1, C. NW $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 27, T. 7 N., R. 4 W., Bond County, on the Panama dome, which is a structure mapped on coal No. 6.¹ The gas sand, which is of lower Pennsylvanian age, was found at a depth of from 555 to 595 ft. The initial production of the well was 500,000 cu. ft. A well was drilled offsetting the Sharf No. 1, which had an estimated initial production of 1,000,000 cu. ft. More wells are to be drilled in the area in an attempt to obtain a sufficient supply of gas for marketing.

NATURAL GASOLINE

Natural gasoline is produced at some 46 plants in the old southeastern field, at three plants in the Salem field and at two plants in the Louden field. According to the U. S. Bureau of Mines,² Illinois produced 21,432,000 gal. of natural gasoline in 1940. In January, the amount was 998,000 gal.; the other months ran from 1,062,000 to 3,461,000 (December). Statistics on the production of propane and butane in 1940 are not yet available.

EXPLORATION METHODS

Subsurface geology and geophysics, largely the reflection seismograph, are still the principal methods used in guiding exploration and development. Most of the

¹ A. H. Bell: The Sorento Dome, Ill. Geol. Survey Illinois Petroleum No. 6, p. 7, fig. 2, 1925.

² G. R. Hopkins, personal communication, April 3, 1941.

seismograph activity during 1940 was in southern Illinois in White, Hamilton, Franklin, Williamson, Saline and Gallatin Counties. The number of seismograph parties operating in the state throughout the year was as follows:

Date	Number of Parties	Date	Number of Parties
Jan. 1, 1940.....	7	Oct. 1, 1940.....	9
Apr. 1.....	13	Jan. 1, 1941.....	7
July 1.....	11		

Gravimeter exploration was conducted by at least three major companies during the year and a number of magnetometer surveys were made in the Illinois basin.

Several companies and individuals have employed geochemical and electrical exploration methods in many areas of southern Illinois. The exploration work was done principally by four companies with district representatives in the state. These methods have been used for both reconnaissance and detail studies.

DEEP TESTS DURING 1940 (TABLE 5)

The St. Peter sandstone was tested in the Carlyle, Mattoon, Sandoval and Cisne fields but was not found productive. In the Carter Oil Company's Seaman No. 1 well in the Mattoon field, there was a show of oil at a depth of 4690 ft. in the Glenwood sandstone overlying the St. Peter sandstone. No shows of oil were reported below the McClosky limestone in the Pure Oil Company's Stella Billington No. 3, drilled in the Cisne pool. This well, which is the deepest well drilled in the state to date, was abandoned at a depth of 7207 ft. The top of the St. Peter sandstone was encountered at a depth of 7114 ft. The sandstone was so hard and "tight" that many drilling bits were used in the thickness penetrated.

Another St. Peter test of considerable interest was the Texas Company's Tate No. 21 well in the Salem pool, which was completed early in 1941. The total depth of the well was 5655 ft., 405 ft. below the top of the St. Peter sandstone, which was reached at a depth of 5250 ft. The St. Peter was found to be 167 ft. thick. No shows were reported below the "Trenton" limestone.

The "Trenton" limestone was tested in the Fairman, Centralia and Salem fields and was found productive in the last two mentioned. Production from this formation was small in the Centralia pool but was somewhat better in the Salem pool.

The Devonian limestone was tested in Albion, West Liberty, Patoka, North Aden and Phillipstown fields, but it was not productive.

There is a revived interest in the possibility of deeper production in the old Allendale field in northeastern Wabash County. Early in 1941 a well was completed in the Bethel sandstone at a depth of 2,011 feet which had an initial production of 250 barrels on pump. The well was drilled in one of the areas recommended for deeper testing by the Illinois Geological Survey.³ Other wells have since been completed in the Bethel sandstone in this area.

SECONDARY RECOVERY

Repressuring.—Repressuring of the Bethel and Aux Vases sandstones of the Chester series and the McClosky limestone of the lower Mississippian system in the Salem field was continued by the Texas Company. At the end of the year about 2.5 million cu. ft. of "dry" gas daily was being injected into 32 gas-input wells. Thirteen new input wells were drilled in 1940 and eight formerly producing wells were changed to gas-input wells.

Additional gas-input wells were drilled by the Carter Oil Co. for its repressuring project in the Louden field during 1940. On Dec. 31, 1940, there were 63 input wells in operation in the Cypress, Paint Creek "Stray" and Bethel sandstones of the Chester series. The total daily amount of "dry" gas returned to the producing formations was 2.5 million cubic feet.

Repressuring of the Cypress and Bethel sandstones in the northern part of the Centralia field was begun during the latter part of 1940. One input well was drilled to the Cypress sandstone on one lease and 60,000 cu. ft. of gas from the Devonian limestone is injected daily into the formation. Three input wells were drilled to the Bethel sandstone on another lease and 100,000 cu. ft. of gas is injected daily.

³ G. F. Moulton: Deeper Production in the Allendale Oil Field, Ill. Geol. Survey, Illinois Petroleum No. 12 p. 16, fig. 2, 1927

into this formation. An increase in gas volume and some increase in oil production was obtained in the wells on the lease.

Water-flooding.—Water-flooding of the McClosky limestone by the Pure Oil Co. on the B. Travis lease, sec. 33, T. 3 N., R. 8 E., Clay County, was discontinued early in 1940. Another project was started in March 1940 on the T. H. Tetrick lease, sec. 9, T. 2 N., R. 8 E., Clay County, by the same company. The experiment was conducted until October 1940, during which time 225,000 bbl. of water was injected into the McClosky limestone. Both experiments were discontinued because of

the inconclusive and conflicting evidence regarding the effects upon production.

During 1940 there was little change in repressuring or water-flooding operations in the old southeastern Illinois field or in the old fields of western and southwestern Illinois.

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OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—WILDCAT WELLS DRILLED IN 1940

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
1	Adams	13	1 N	9 W	465	"Niagaran"	Menne et al., H. Summers 1.....	Dry
2	Alexander	35	15 S	2 W	2,019	St. Peter.....	Arnold & Middleton, Hodges 1.....	Dry
3	Bond	21	6 N	4 W	1,874	Devonian.....	Bond Oil Co., Begel 1.....	Dry
4	Bond	28	6 N	4 W	1,450	Mississippian.....	R. E. Jones, Huber 1.....	Dry
5	Bond	29	7 N	4 W	1,965	Devonian.....	Paul Harr—F. F. Thacker 1.....	Dry
6	Bond	28	6 N	4 W	1,882	Devonian.....	Central States et al., L. Rich 1.....	Dry
7	Bond	22	5 N	3 W	2,369	Devonian.....	Seaboard Oil Co., O. Tremblar 1.....	Dry
8	Bond	16	2 N	2 W	2,565	Devonian.....	Dickerson et al., Stork 1.....	Dry
9	Bond	29	5 N	2 W	2,547	Devonian.....	W. F. Lacy, Cartmell 1.....	Dry
10	Bond	22	6 N	2 W	2,458	Devonian.....	Swan King, Dr. Erown 1.....	Dry
11	Bond	26	7 N	4 W	605	Pennsylvanian.....	Smith, Desborough 1.....	Dry
12	Bond	27	7 N	4 W	2,012	Devonian-Silurian.....	W. N. Lee et al.—Thomas Sharf 1.....	Dry
13	Bond	19	4 N	2 W	2,574	Devonian.....	W. H. Dickerson, Wise 1.....	Dry
14	Bond	2	6 N	2 W	1,053	Bethel.....	M. Pray, Buchanan 1.....	Dry
15	Bond	33	7 N	2 W	1,178	Bethel.....	Arrow Drilling Co., Snow 1.....	Dry
16	Bond	3	6 N	2 W	1,110	Ste. Genevieve.....	Arrow Drilling Co., Stoneburner 1.....	Dry
17	Bond	30	6 N	3 W	2,181	Devonian.....	Kingwood Oil Co., Gaffner, 1.....	Dry
18	Bond	18	3 W	3 W	2,290	Devonian.....	Kingwood Oil Co., Hentz 1.....	Dry
19	Bond	28	6 N	4 W	1,971	Devonian.....	Central States, G. Rich 1.....	Dry
20	Bond	27	7 N	4 W	612	Pennsylvanian.....	Miller, McCarlo 1.....	Dry
21	Bond	18	6 N	2 W	710	Chester.....	W. N. Lee—Robinson 1.....	Dry
22	Bond	21	6 N	2 W	1,181	St. Louis.....	Shell Oil Co., Dunnigan 1.....	Dry
23	Bond	26	6 N	4 W	1,278	Lindley.....	Brainerd, Lindley 1.....	Dry
24	Bond	25	4 N	3 W	1,155	Bethel.....	Paul Holloman, C. Basler 1.....	Dry
25	Bond	7	5 N	2 W	2,365	Devonian.....	J. B. Barnes, Watts 1.....	Dry
26	Bond	28	4 N	4 W	940	Bethel.....	J. Harding, Gottfried 1.....	Dry
27	Bond	9	6 N	2 W	1,060	Aux Vases.....	Bragassa, G. K. Hughey 1.....	Dry
28	Bond	10	6 N	2 W	1,021	Bethel.....	National Refining Co.—Spindler 1.....	Prod.*
29	Brown	7	2 S	3 W	730	"Niagaran"	F. M. Coleman, S. Newenham 1.....	Dry
30	Brown	32	2 S	4 W	650	"Trenton"	Buel, H. Deame 1.....	Dry
31	Bureau	24	15 N	9 E	1,050	Maquoketa.....	Harrington Foss, Miller 1.....	Dry
32	Bureau	2	18 N	8 E	720	Silurian.....	Kerchner et al.—Guither 1.....	Dry
33	Bureau	24	18 N	8 E	500	Silurian.....	F. E. Webb, Abrahams 1.....	Dry
34	Cass	2	17 N	10 W	1,070	Devonian.....	Cass Comm. Oil Co., J. Maslin 1.....	Dry
35	Christian	7	13 N	1 E	1,330	Devonian.....	Moore et al., Meyers 1.....	Dry
36	Clark	4	8 N	11 W	2,803	"Niagaran"	H. R. Snavely, S. Freeman 1.....	Dry

OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
81	Clinton	24	3 N	2 W	1,300	Bethel	Livesay & Kerwin, L. J. McAdams 1.....	Dry
82	Clinton	22	1 N	1 W	1,511	Bethel	Sister et al, Barup 1.....	Dry
83	Clinton	16	2 N	1 W	1,470	Lower Mississippian	B. E. Martin, Heinzman 1.....	Dry
84	Clinton	9	2 N	1 W	3,005	Devonian	Martin, Heinzman 2.....	Dry
85	Clinton	30	2 N	3 W	1,123	Bethel	Ruwaldt et al, H. B. Brefield 1.....	Dry
86	Clinton	33	2 N	3 W	1,074	Cypress	Goldschmidt, Holtgrave 1.....	Dry
87	Clinton	34	3 N	1 W	1,431	Bethel	E. Self, F. Ries 1.....	Dry
88	Clinton	35	3 N	1 W	1,504	Bethel	Jones et al, Hester 1.....	Dry
89	Clinton	14	3 N	1 W	1,771	Ste. Genevieve	Mudge Oil Co., Jenson 1.....	Dry
90	Clinton	14	1 N	2 W	1,372	Bethel	National Consumers, Fricke 1.....	Dry
91	Clinton	12	2 N	5 W	2,170	Devonian	M. C. Trumbell, Dilman Estate 1.....	Dry
92	Clinton	12	3 N	3 W	1,160	Bethel	Bell Oil Co., Inc., E. Maibaum 1.....	Dry
93	Clinton	14	1 N	1 W	1,415	Bethel	Sistler—Phoenix 1.....	Prod.*
94	Clinton	33	2 N	3 W	2,535	Devonian	Snell and Goldschmidt—Schaffer 1.....	Dry
95	Coles.	31	12 N	10 E	1,280	Lower Mississippian	Coder, Horsley Heirs 1.....	Dry
96	Coles.	18	12 N	14 W	505	Pennsylvanian	L. Trulock, Fee 2.....	Dry
97	Coles.	35	12 N	7 E	4,908	St. Peter	Carter Oil Co., J. H. Seaman 1.....	Dry
98	Coles.	35	12 N	7 E	2,027	McClosky	Carter Oil Co., J. Seaman 1-A.....	Prod.*
99	Coles.	10	13 N	7 E	3,226	Devonian	Carter Oil Co., Cobb 1.....	Dry
100	Coles.	10	11 N	7 E	2,123	St. Louis	Carter Oil Co., V. Ohm 1.....	Dry
101	Coles.	36	13 N	9 E	752	Pennsylvanian	Tex Harvey, P. Erwin 1.....	Dry
102	Coles.	26	12 N	7 E	2,107	St. Louis	Carter Oil Co., M. S. Pinnell 1.....	Dry
103	Coles.	11	11 N	7 E	2,114	St. Louis	F. H. Brigassa et al, Trogden 1.....	Dry
104	Crawford	27	6 N	11 W	2,398	Salem	Seger et al, Steward 1.....	Dry
105	Crawford	14	7 N	14 W	3,504	Devonian	Denver Producers and Refiners, Dennis 1.....	Dry
106	Crawford	8	7 N	11 W	1,610	Ste. Genevieve	Barren et al, Headly 1.....	Dry
107	Crawford	17	6 N	10 W	1,592	Ste. Genevieve	Segar, Goodwin 1.....	Dry
108	Crawford	4	8 N	12 W	1,031	Pennsylvanian	Nelson Bros, First National Bank 1.....	Dry
109	Crawford	21	6 N	13 W	2,987	Devonian	Babler, Mitchell 1.....	Dry
110	Cumberland	22	10 N	10 E	710	Pennsylvanian	Ginther, Kemper 1.....	Dry
111	Detall	22	3 E	38	520	Galesville	J. E. Milburn et al, L. Eraas 1.....	Dry
112	Dewitt	6	20 N	3 E	1,570	Keokuk, Burlington	Wabash Oil & Gas Development Co., Thorpe 1.....	Dry
113	Douglas	12	15 N	9 E	615	Kinderhook	J. J. Broadus, Bennett 1.....	Dry
114	Douglas	33	16 N	9 E	630	Devonian	Taylor Drilling Company, Baldwin 1.....	Dry
115	Edgar	17	13 W	14 N	1,000	Pennsylvanian	H. C. Hawthorne, M. E. Hathaway 1.....	Dry
116	Edgar	13	14 W	13 N	440	Pennsylvanian	Ed Pearcey, Sholen 1.....	Dry

Dry	S. J. Burkett, Schootikter 1.....	A. S. Mims, Landis 1.....	Dry
117 Edgar.....	11 12 N	Pennsylvanian.....	G. J. McDevitt et al., Wilhoit 1.....
118 Edgar.....	11 12 N	Mississippian.....	Dry
119 Edgar.....	12 N	Pennsylvanian.....	Dry
120 Edgar.....	12 N	Pennsylvanian.....	Dry
121 Edgar.....	13 W	Pennsylvanian.....	Dry
122 Edgar.....	14 N	Pennsylvanian.....	Dry
123 Edgar.....	14 N	Pennsylvanian.....	Dry
124 Edwards.....	14 W	Pennsylvanian.....	Dry
125 Edwards.....	14 W	McCloskey.....	Dry
126 Edwards.....	14 W	St. Louis.....	Dry
127 Edwards.....	14 W	Ste. Genevieve.....	Dry
128 Edwards.....	14 W	St. Louis.....	Dry
129 Edwards.....	14 W	Weiler.....	Dry
130 Edwards.....	14 W	Ste. Genevieve.....	Dry
131 Edwards.....	14 W	Devonian.....	Dry
132 Edwards.....	14 W	St. Louis.....	Dry
133 Edwards.....	14 W	Tar Springs.....	Dry
134 Edwards.....	14 W	St. Louis.....	Dry
135 Effingham.....	14 W	McClosky.....	Dry
136 Effingham.....	14 W	10 E	Dry
137 Effingham.....	14 W	10 E	Dry
138 Effingham.....	14 W	10 E	Dry
139 Effingham.....	14 W	10 E	Dry
140 Effingham.....	14 W	9 N	Dry
141 Effingham.....	14 W	9 N	Dry
142 Effingham.....	14 W	9 N	Dry
143 Fayette.....	14 W	9 N	Dry
144 Fayette.....	14 W	9 N	Dry
145 Fayette.....	14 W	9 N	Dry
146 Fayette.....	14 W	9 N	Dry
147 Fayette.....	14 W	9 N	Dry
148 Fayette.....	14 W	9 N	Dry
149 Fayette.....	14 W	9 N	Dry
150 Fayette.....	14 W	9 N	Dry
151 Fayette.....	14 W	9 N	Dry
152 Fayette.....	14 W	9 N	Dry
153 Fayette.....	14 W	9 N	Dry
154 Fayette.....	14 W	9 N	Dry
155 Fayette.....	14 W	9 N	Dry
156 Fayette.....	14 W	9 N	Dry
157 Fayette.....	14 W	9 N	Dry
158 Fayette.....	14 W	9 N	Dry
159 Fayette.....	14 W	9 N	Dry
160 Fayette.....	14 W	9 N	Dry
16 N	11 W	S. J. Burkett, Schootikter 1.....	S. J. Burkett, Schootikter 1.....
30 Edgar.....	11 12 N	Pennsylvanian.....	A. S. Mims, Landis 1.....
11 W	11 12 N	Mississippian.....	G. J. McDevitt et al., Wilhoit 1.....
11 N	11 12 N	Pennsylvanian.....	Downey & Cain, Stark 1.....
12 N	11 12 N	Pennsylvanian.....	H. Dunn, Irwin 1.....
13 N	11 12 N	Pennsylvanian.....	A. M. Meyers, F. Stokes 1.....
14 N	11 12 N	Pennsylvanian.....	Whisenant and Trenchard, Dunk 1.....
15 N	11 12 N	McCloskey.....	Kingwood Oil Company, S. Frost 1.....
16 N	11 12 N	St. Louis.....	Wilson Drilling Company et al., R. W. Curtiss 1.....
17 N	11 12 N	Ste. Genevieve.....	Tidewater, Banting 1.....
18 N	11 12 N	St. Louis.....	S. D. Ford, Marshall 1.....
19 N	11 12 N	Ste. Genevieve.....	Barnes and Wickwire, Broster 1.....
20 N	11 12 N	St. Louis.....	Hershbach, Perkins 1.....
21 N	11 12 N	Ste. Genevieve.....	Superior Oil Company, Scott 1.....
22 N	11 12 N	St. Louis.....	Kinneywood Oil Company, Shurtliff 1.....
23 N	11 12 N	St. Louis.....	Whisenant et al., Dunk 1A.....
24 N	11 12 N	St. Louis.....	R. Neely, Michael 1.....
25 N	11 12 N	McClosky.....	Noah and Morrison, Barnes 1.....
26 N	11 12 N	10 E	Payton and McGrath, W. E. Beck 1.....
27 N	11 12 N	10 E	Bethel.....
28 N	11 12 N	10 E	2,600
29 N	11 12 N	10 E	3,275
30 N	11 12 N	10 E	5,196
31 N	11 12 N	10 E	3,128
32 N	11 12 N	10 E	2,550
33 N	11 12 N	10 E	3,367
34 N	11 12 N	10 E	3,240
35 N	11 12 N	10 E	1,707
36 N	11 12 N	10 E	2,636
37 N	11 12 N	10 E	1,772
38 N	11 12 N	10 E	1,714
39 N	11 12 N	10 E	2,674
40 N	11 12 N	10 E	2,704
41 N	11 12 N	10 E	1,616
42 N	11 12 N	10 E	2,503
43 N	11 12 N	10 E	2,511
44 N	11 12 N	10 E	1,621
45 N	11 12 N	10 E	2,008
46 N	11 12 N	10 E	1,789
47 N	11 12 N	10 E	1,622
48 N	11 12 N	10 E	2,015
49 N	11 12 N	10 E	2,309
50 N	11 12 N	10 E	675
51 N	11 12 N	10 E	1,573
52 N	11 12 N	10 E	1,820
53 N	11 12 N	10 E	1,656
54 N	11 12 N	10 E	1,895
55 N	11 12 N	10 E	1,911
56 N	11 12 N	10 E	1,34
57 N	11 12 N	10 E	1,937
58 N	11 12 N	10 E	1,665
59 N	11 12 N	10 E	1,800
60 N	11 12 N	10 E	1,660
61 N	11 12 N	10 E	1,660
62 N	11 12 N	10 E	1,660
63 N	11 12 N	10 E	1,660
64 N	11 12 N	10 E	1,660
65 N	11 12 N	10 E	1,660
66 N	11 12 N	10 E	1,660
67 N	11 12 N	10 E	1,660
68 N	11 12 N	10 E	1,660
69 N	11 12 N	10 E	1,660
70 N	11 12 N	10 E	1,660
71 N	11 12 N	10 E	1,660
72 N	11 12 N	10 E	1,660
73 N	11 12 N	10 E	1,660
74 N	11 12 N	10 E	1,660
75 N	11 12 N	10 E	1,660
76 N	11 12 N	10 E	1,660
77 N	11 12 N	10 E	1,660
78 N	11 12 N	10 E	1,660
79 N	11 12 N	10 E	1,660
80 N	11 12 N	10 E	1,660
81 N	11 12 N	10 E	1,660
82 N	11 12 N	10 E	1,660
83 N	11 12 N	10 E	1,660
84 N	11 12 N	10 E	1,660
85 N	11 12 N	10 E	1,660
86 N	11 12 N	10 E	1,660
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89 N	11 12 N	10 E	1,660
90 N	11 12 N	10 E	1,660
91 N	11 12 N	10 E	1,660
92 N	11 12 N	10 E	1,660
93 N	11 12 N	10 E	1,660
94 N	11 12 N	10 E	1,660
95 N	11 12 N	10 E	1,660
96 N	11 12 N	10 E	1,660
97 N	11 12 N	10 E	1,660
98 N	11 12 N	10 E	1,660
99 N	11 12 N	10 E	1,660
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101 N	11 12 N	10 E	1,660
102 N	11 12 N	10 E	1,660
103 N	11 12 N	10 E	1,660
104 N	11 12 N	10 E	1,660
105 N	11 12 N	10 E	1,660
106 N	11 12 N	10 E	1,660
107 N	11 12 N	10 E	1,660
108 N	11 12 N	10 E	1,660
109 N	11 12 N	10 E	1,660
110 N	11 12 N	10 E	1,660
111 N	11 12 N	10 E	1,660
112 N	11 12 N	10 E	1,660
113 N	11 12 N	10 E	1,660
114 N	11 12 N	10 E	1,660
115 N	11 12 N	10 E	1,660
116 N	11 12 N	10 E	1,660
117 N	11 12 N	10 E	1,660
118 N	11 12 N	10 E	1,660
119 N	11 12 N	10 E	1,660
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121 N	11 12 N	10 E	1,660
122 N	11 12 N	10 E	1,660
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124 N	11 12 N	10 E	1,660
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126 N	11 12 N	10 E	1,660
127 N	11 12 N	10 E	1,660
128 N	11 12 N	10 E	1,660
129 N	11 12 N	10 E	1,660
130 N	11 12 N	10 E	1,660
131 N	11 12 N	10 E	1,660
132 N	11 12 N	10 E	1,660
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134 N	11 12 N	10 E	1,660
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136 N	11 12 N	10 E	1,660
137 N	11 12 N	10 E	1,660
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142 N	11 12 N	10 E	1,660
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144 N	11 12 N	10 E	1,660
145 N	11 12 N	10 E	1,660
146 N	11 12 N	10 E	1,660
147 N	11 12 N	10 E	1,660
148 N	11 12 N	10 E	1,660
149 N	11 12 N	10 E	1,660
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151 N	11 12 N	10 E	1,660
152 N	11 12 N	10 E	1,660
153 N	11 12 N	10 E	1,660
154 N	11 12 N	10 E	1,660
155 N	11 12 N	10 E	1,660
156 N	11 12 N	10 E	1,660
157 N	11 12 N	10 E	1,660
158 N	11 12 N	10 E	1,660
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160 N	11 12 N	10 E	1,660
161 N	11 12 N	10 E	1,660
162 N	11 12 N	10 E	1,660
163 N	11 12 N	10 E	1,660
164 N	11 12 N	10 E	1,660
165 N	11 12 N	10 E	1,660
166 N	11 12 N	10 E	1,660
167 N	11 12 N	10 E	1,660
168 N	11 12 N	10 E	1,660
169 N	11 12 N	10 E	1,660
170 N	11 12 N	10 E	1,660
171 N	11 12 N	10 E	1,660
172 N	11 12 N	10 E	1,660
173 N	11 12 N	10 E	1,660
174 N	11 12 N	10 E	1,660
175 N	11 12 N	10 E	1,660
176 N	11 12 N	10 E	1,660
177 N	11 12 N	10 E	1,660
178 N	11 12 N	10 E	1,660
179 N	11 12 N	10 E	1,660
180 N	11 12 N	10 E	1,660
181 N	11 12 N	10 E	1,660
182 N	11 12 N	10 E	1,660
183 N	11 12 N	10 E	1,660
184 N	11 12 N	10 E	1,660
185 N	11 12 N	10 E	1,660
186 N	11 12 N	10 E	1,660
187 N	11 12 N	10 E	1,660
188 N	11 12 N	10 E	1,660
189 N	11 12 N	10 E	1,660
190 N	11 12 N	10 E	1,660
191 N	11 12 N	10 E	1,660
192 N	11 12 N	10 E	1,660
193 N	11 12 N	10 E	1,660
194 N	11 12 N	10 E	1,660
195 N	11 12 N	10 E	1,660
196 N	11 12 N	10 E	1,660
197 N	11 12 N	10 E	1,660
198 N	11 12 N	10 E	1,660
199 N	11 12 N	10 E	1,660
200 N	11 12 N	10 E	1,660
201 N	11 12 N	10 E	1,660
202 N	11 12 N	10 E	1,660
203 N	11 12 N	10 E	1,660
204 N	11 12 N	10 E	1,660
205 N	11 12 N	10 E	1,660
206 N	11 12 N	10 E	1,660
207 N	11 12 N	10 E	1,660
208 N	11 12 N	10 E	1,660
209 N	11 12 N	10 E	1,660
210 N	11 12 N	10 E	1,660
211 N	11 12 N	10 E	1,660
212 N	11 12 N	10 E	1,660
213 N	11 12 N	10 E	1,660
214 N	11 12 N	10 E	1,660
215 N	11 12 N	10 E	1,660
216 N	11 12 N	10 E	1,660
217 N	11 12 N	10 E	1,660
218 N	11 12 N	10 E	1,660
219 N	11 12 N	10 E	1,660
220 N	11 12 N	10 E	1,660
221 N	11 12 N	10 E	1,660
222 N	11 12 N	10 E	1,660
223 N	11 12 N	10 E	1,660
224 N	11 12 N	10 E	1,660
225 N	11 12 N	10 E	1,660
226 N	11 12 N	10 E	1,660
227 N	11 12 N	10 E	1,660
228 N	11 12 N	10 E	1,660
229 N	11 12 N	10 E	1,660
230 N	11 12 N	10 E	1,660
231 N	11 12 N	10 E	1,660
232 N	11 12 N	10 E	1,660
233 N	11 12 N	10 E	1,660
234 N	11 12 N	10 E	1,660
235 N	11 12 N	10 E	1,660
236 N	11 12 N	10 E	1,660
237 N	11 12 N	10 E	1,660
238 N	11 12 N	10 E	1,660
239 N	11 12 N	10 E	1,660
240 N	11 12 N	10 E	1,660
241 N	11 12 N	10 E	1,660
242 N	11 12 N	10 E	1,660
243 N	11 12 N	10 E	1,660
244 N	11 12 N	10 E	1,660
245 N	11 12 N	10 E	1,660
246 N	11 12 N	10 E	1,660
247 N	11 12 N	10 E	1,660
248 N	11 12 N	10 E	1,660
249 N	11 12 N	10 E	1,660
250 N	11 12 N	10 E	1,660
251 N	11 12 N	10 E	1,660
252 N	11 12 N	10 E	1,660
253 N	1		

OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re- marks
		Sec.	Twp.	Rge.				
161	Fayette.....	35	9 N	3 E	1,590	Cypress.....	Allied Oil Company, Buzzard 1.....	Dry
162	Fayette.....	30	5 N	3 E	3,570	Devonian.....	Kingwood Oil Company, Aukamp 1.....	Dry
163	Fayette.....	35	6 N	2 E	1,665	Tar Springs.....	D. V. Lesh, Hayes 1.....	Dry
164	Fayette.....	9	8 N	3 E	1,653	Stray.....	Cooper et al., Hogue 1.....	Dry
165	Fayette.....	14	6 N	1 W	2,946	Devonian.....	Kingwood Oil Company, Dayton 1.....	Dry
166	Fayette.....	5	8 N	1 W	1,616	Devonian.....	Cherry and Kidd, Farber 1.....	Dry
167	Ford.....	19	24 N	7 E	2,250	St. Peter.....	Nelson, Brown and Erp, Stroh 1.....	Dry
168	Franklin.....	24	6 S	1 E	2,860	St. Peter.....	E. S. Adkins, Old Ben Coal Company 2.....	Dry
169	Franklin.....	14	7 S	3 E	3,102	St. Louis.....	Adkins, Old Ben Coal "C," 1.....	Dry
170	Franklin.....	26	7 S	4 E	3,118	McClosey.....	Manley Oil Company, Downen 1.....	Prod.*
171	Franklin.....	22	7 S	4 E	3,202	Aux Vases.....	G. Venorsky, L. Auten.....	Dry
172	Fulton.....	10	7 N	1 E	815	"Niagara".....	Lee Twp. Oil Company, Frederick 1.....	Dry
173	Gallatin.....	4	8 S	8 E	2,846	St. Louis.....	Kingwood Oil Company, Robinson 1.....	Dry
174	Gallatin.....	15	8 S	10 E	2,241	Pennsylvanian.....	Egyptian Tie and Timber Company, Fee 2.....	Dry
175	Gallatin.....	21	7 S	9 E	3,100	St. Louis.....	Skelly Exchange et al., Hale 1.....	Dry
176	Gallatin.....	7	8 S	9 E	3,060	St. Louis.....	Exchange Oil Company, Hensling 1.....	Dry
177	Gallatin.....	25	8 S	9 E	3,007	Rosidale.....	Colbeck, Duffy 1.....	Prod.*
178	Gallatin.....	21	7 S	8 E	3,165	St. Louis.....	Carter Oil Company, O. Vineyard 1R.....	Dry
179	Gallatin.....	29	8 S	10 E	2,933	St. Louis.....	Halbert, Osborne 1.....	Dry
180	Gallatin.....	28	7 S	8 E	2,955	St. Louis.....	Powers et al., West 1.....	Dry
181	Gallatin.....	20	7 S	8 E	3,042	St. Louis.....	Exchange Oil Company, O. Evans 1.....	Dry
182	Gallatin.....	33	7 S	8 E	1,722	Palestine.....	Carter Oil Company, York 1.....	Prod.*
183	Greene.....	2	12 N	13 W	750	"Trenton".....	G. Brainerd, Bowman 1.....	Dry
184	Hamilton.....	16	7 S	7 E	3,345	St. Louis.....	Carl Robinson, Ghosh 1.....	Dry
185	Hamilton.....	9	7 S	6 E	3,105	St. Genevieve.....	Alma Oil and Gas Co., Fed. Chem. & Coke 2.....	Dry
186	Hamilton.....	6	6 S	7 E	2,695	Weiler.....	Kingwood Oil Company, Wilson 1.....	Prod.*
187	Hamilton.....	34	5 S	6 E	3,200	McClosey.....	Kingwood Oil Company, Morris 1.....	Prod.*
188	Hamilton.....	14	6 S	6 E	3,358	St. Louis.....	Kingwood Oil Company, Waring 1.....	Dry
189	Hamilton.....	15	6 S	6 E	3,315	St. Genevieve.....	North American Oil Company, Graves 1.....	Dry
190	Hamilton.....	13	5 S	6 E	3,494	St. Genevieve.....	Blackstock, Webb 1.....	Dry
191	Hamilton.....	23	6 S	5 E	3,257	St. Genevieve.....	Halbert, Lockwood 1.....	Dry
192	Hamilton.....	8	4 S	5 E	3,558	St. Louis.....	Texas Company, N. Adams 1.....	Dry
193	Hamilton.....	35	5 S	6 E	3,305	St. Genevieve.....	Exchange Oil Co., General American Ins. Co. 1.....	Dry
194	Hamilton.....	26	4 S	7 E	3,513	St. Genevieve.....	Woodriver Development Company, Walker 1.....	Dry
195	Hamilton.....	30	6 S	7 E	3,307	St. Genevieve.....	J. G. Buehl, J. H. Porter 1.....	Dry
196	Hamilton.....	11	5 S	7 E	3,583	St. Genevieve.....	Kingwood Oil Company, McGuire 1.....	Dry

OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
239	Lawrence.....	30	4 N	10 W	1,754	St. Louis	Kentucky Natural Gas, Crews 1.....	Dry
240	Lawrence.....	10	4 N	11 W	1,701	Ste. Genevieve.....	J. W. Cannon et al., W. Zaner 1.....	Dry
241	Lawrence.....	20	4 N	13 W	2,577	McClosky	Whisenant and Trenchard, J. Wagner 1.....	Dry
242	Lawrence.....	27	5 N	11 W	3,262	Bell Brothers, Wampler 1.....	D. Miller, J. Stout 1.....	Dry
243	Lawrence.....	30	5 N	13 W	2,841	Devonian	Schmidt et al., C. E. Martin 1.....	Dry
244	Lawrence.....	5	2 N	12 W	2,255	Ste. Genevieve.....	H. J. Bowman, Shaw, Gray, Lahr 2.....	Dry
245	Lawrence.....	13	4 N	11 W	1,077	Buchanan.....	W. Payne, Monjar 1.....	Dry
246	Lawrence.....	28	4 N	11 W	1,964	Ste. Genevieve.....	United Drilling and Producing Company, Forn-hoff 1.....	Dry
247	Lawrence.....	27	2 N	13 W	2,721	McClosky	Prod.*	Dry
248	Logan.....	11	20 N	2 W	1,535	Silurian	Bay Oil Company, G. M. Lake 1.....	Dry
249	McDonough.....	18	6 N	4 W	740	Maquoketa	R. G. Gridland, S. E. Roberts 1.....	Dry
250	McDonough.....	30	4 N	3 W	915	St. Peter	Ellis Jones, Foster 1.....	Dry
251	McDonough.....	8	6 N	3 W	628	Niagaran	Bruminger, Fee 1.....	Dry
252	McDonough.....	4	5 N	4 W	801	"Trenton"	W. Vette, McClure 1.....	Dry
253	McDonough.....	29	5 N	4 W	630	"Niagaran"	C. B. Talbot, G. W. Foley 1.....	Dry
254	McDonough.....	10	4 N	4 W	530	"Niagaran"	Vette, Post 1.....	Dry
255	Macon.....	28	17 N	3 E	2,248	Silurian	Eureka Oil Corporation, W. F. Rhodes 1.....	Dry
256	Macon.....	11	16 N	3 E	2,360	Devonian	S. D. Jarvis, S. Veech 1.....	Dry
257	Macon.....	14	14 N	2 E	1,636	St. Louis	Gulf Refining Company, E. W. Hight 1.....	Dry
258	Macon.....	17	15 N	2 E	2,333	Devonian	J. H. Williams, Carter 1.....	Dry
259	Macoupin.....	1	10 N	6 W	720	Pennsylvanian	Miller, Crabree 1.....	Dry
260	Macoupin.....	2	10 N	6 W	740	Pennsylvanian	Adams et al., J. E. Cole 1.....	Dry
261	Macoupin.....	2	10 N	6 W	633	Pennsylvanian	Adams and Leagers, J. A. Cole 1.....	Dry
262	Macoupin.....	10	10 N	6 W	621	Pennsylvanian	Adams and Lagers, Arter 1.....	Dry
263	Macoupin.....	12	10 N	6 W	675	Pennsylvanian	Lee et al., Banning 1.....	Dry
264*	Macoupin.....	35	11 N	6 W	625	Pennsylvanian	Peyton et al., Friend 1.....	Dry
265	Macoupin.....	7	9 N	7 W	1,380	Devonian	O. Z. Smith et al., Kline 1.....	Dry
266	Macoupin.....	22	8 N	8 W	505	Pennsylvanian	Williams et al., Morrison 1.....	Dry
267	Macoupin.....	35	9 N	8 W	1,607	Devonian	W. A. Steward, Caldwells National Bank 1.....	Dry
268	Madison.....	1	5 N	6 W	1,880	Devonian	J. R. Wilson, R. F. Dauberman 1.....	Dry
269	Madison.....	22	4 N	5 W	3,270	St. Peter	Jennings Bros., Mossman 1.....	Dry
270	Madison.....	30	6 N	5 W	1,917	Devonian	R. Jones et al., Early 1.....	Dry
271	Madison.....	7	3 N	8 W	1,276	Devonian	Vorbett, M. Keller 1.....	Dry
272	Madison.....	5	5 N	5 W	1,981	Devonian	Cherry and Kidd, Leaf 1.....	Dry
273	Madison.....	17	3 N	5 W	2,877	Platteville	E. J. Poeseke, J. O. Riegel 1.....	Dry

OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
318	Montgomery	30	10 N	4 W	632	Pennsylvanian.....	Henderson Bros., Ostermier 1.....	Prod.*
319	Montgomery	19	10 N	4 W	1,005	Mississippian.....	Henderson, Eaglehoff 1.....	Dry
	Montgomery	19	10 N	4 W	650	Pennsylvanian.....	O. W. Burroughs, Eagelhoff 1.....	Dry
320	Montgomery	1	10 N	5 W	2,523	"Trenton",	Gulf, C. R. Brandon 1.....	Dry
321	Montgomery	3	8 N	5 W	667	Pottsville.....	Young et al., Yowell 1.....	Dry
322	Montgomery	15	8 N	4 W	613	Pennsylvanian.....	Southern and Petty, Sawyer 1.....	Dry
323	Montgomery	13	9 N	4 W	2,160	Devonian.....	Topf, Breitenbach 1.....	Dry
324	Montgomery	30	11 N	5 W	665	Pottsville.....	Dooley, W. Lewis 1.....	Dry
325	Montgomery	31	11 N	5 W	944	St. Louis.....	Burroughs et al., Kilton 1.....	Dry
326	Montgomery	31	11 N	5 W	624	Pottsville.....	H. Randall et al., Street 1.....	Dry
327	Montgomery	9	9 N	5 W	665	Pennsylvanian.....	Brown, Finley 1.....	Dry
328	Montgomery	30	10 N	4 W	552	Pennsylvanian.....	Henderson Bros., Arling 1.....	Dry
329	Montgomery	32	11 N	5 W	665	Pottsville.....	Grant et al., Wood 1.....	Dry
330	Montgomery	6	10 N	5 W	693	Pennsylvanian.....	Miller, F. Alford 1.....	Dry
331	Montgomery	30	11 N	5 W	650	Pennsylvanian.....	R. Brown, Witt 1.....	Dry
332	Montgomery	20	8 N	5 W	2,577	"Trenton",	Seaboard Oil Company, O. Lay 1.....	Dry
333	Montgomery	24	10 N	5 W	645	Pottsville.....	Dorton Edge Oil Company, Taman 1.....	Dry
334	Montgomery	29	11 N	5 W	555	Pottsville.....	Algon Oil Company, W. Waggoner 2.....	Dry
335	Montgomery	29	11 N	5 W	635	Pennsylvanian.....	Cunningham, J. Waggoner 1.....	Dry
336	Montgomery	7	7 N	2 W	2,330	Devonian.....	H. W. Green, Blackburn 1.....	Dry
337	Montgomery	11	7 N	4 W	907	Bethel.....	L. C. Kessler, A. Nowak "A" 1.....	Dry
338	Montgomery	11	7 N	4 W	1,202	Ste. Genevieve.....	Talifero et al., A. Nowak 1.....	Dry
339	Montgomery	3	8 N	5 W	774	Pennsylvanian.....	E. Solomon, Carroll 1.....	Dry
340	Montgomery	30	8 N	5 W	865	Ste. Genevieve.....	W. L. Topf, Nieman 1.....	Dry
341	Montgomery	12	10 N	5 W	598	Pennsylvanian.....	Gulf Refining Company, L. Moore 1.....	Prod.*
342	Montgomery	24	10 N	5 W	688	Pennsylvanian.....	Scherter, Johnson 1.....	Dry
343	Montgomery	16	12 N	5 W	645	Pottsville.....	J. E. Hood, Dambacher 1.....	Dry
344	Montgomery	4	8 N	2 W	1,254	Ste. Genevieve.....	National Petroleum Company, Bost 1.....	Dry
345	Montgomery	24	8 N	4 W	950	Bethel.....	Swords and Thompson, Jett 1.....	Dry
346	Montgomery	19	9 N	3 W	1,021	Chester.....	W. L. Topf, Fisher 1.....	Dry
347	Montgomery	25	10 N	5 W	664	Pennsylvanian.....	Scherter et al., Lyon 1.....	Dry
348	Montgomery	17	8 N	6 E	1,011	Devonian.....	Blue Bell Oil Company, Kyle 1.....	Dry
349	Peoria	15	4 S	3 W	1,671	McClosky.....	Magnolia Petroleum Company, H. Bruns 1.....	Dry
350	Perry	4	5 S	1 W	3,185	Devonian.....	Standolind, Kinney 1.....	Dry
351	Perry	13	5 S	3 W	2,942	Devonian.....	Blankenship, City Park 1.....	Dry
352	Perry	14	5 S	3 W	1,722	Perry.....	Robinson, Gruner 1.....	Dry
353	Perry						Fredonia.....	

354 ^a	Perry.....	13	4 S	2 W	1,303	Bethel.....	Dry	Thompson Drilling Company, Prusacki 1.....
355	Perry.....	15	4 S	2 W	1,325	Bethel.....	Dry	G. H. Blankenship, Bathon Estate 1.....
356	Perry.....	24	4 S	2 W	1,130	Bethel.....	Dry	Blankenship, Malinski 1.....
357	Perry.....	24	4 S	2 W	1,381	Bethel.....	Dry	Blankenship, Bednarkwicz 1.....
358	Pike.....	11	7 S	3 W	750	St. Peter.....	Dry	G. Brainerd, Allison 1.....
359	Pike.....	35	4 S	7 W	231	"Trenton".....	Dry	Wooters et al., Gorton 1.....
360	Pike.....	35	4 S	7 W	222	Maquojeta.....	Dry	West Pike Petroleum Company, O. H. Reinhardt 1.....
361	Pike.....	21	5 S	6 W	345	"Trenton".....	Dry	L. Hunt, Fisher 1.....
362	Pope.....	19	11 S	5 E	1,398	Glen Dean.....	Dry	Gardenheir and Smith, Peoples 1.....
363	Pope.....	10	11 S	5 E	1,692	Ste. Genevieve.....	Dry	Ohio Oil Company, General American Insurance Co. 1.....
364	Randolph.....	2	7 S	6 W	734	Aux Vases.....	Dry	G & L Oil Company, Schultz 1.....
365	Randolph.....	2	7 S	6 W	546	Chester.....	Dry	G & L Oil Company, Schultz 2.....
366	Randolph.....	11	5 S	5 W	996	Cypress.....	Dry	Egyptian Tie and Timber Co., V. Beard 1.....
367	Randolph.....	15	5 S	7 W	600	Chester.....	Dry	Harman, J. Lauber 1.....
368	Randolph.....	25	7 S	6 W	1,024	Ste. Genevieve.....	Dry	Christian and Wagner, Waltemater 1.....
369	Randolph.....	16	7 S	7 W	1,498	"Trenton".....	Dry	R. H. Anderson et al., J. B. Cassout 1.....
370	Randolph.....	17	5 S	5 W	2,365	Devonian.....	Dry	Rand Development Company, Grant 1.....
371	Randolph.....	26	5 S	6 W	2,053	Devonian.....	Dry	F. Oswald et al., J. C. Fullerton 1.....
372	Richland.....	26	2 N	10 E	3,326	Ste. Genevieve.....	Dry	Robinson et al., A. Jenner 1.....
373	Richland.....	3	3 N	9 E	2,985	Ste. Genevieve.....	Dry	Duncan, Davenport 1.....
374	Richland.....	1	2 N	10 E	3,398	Ste. Genevieve.....	Dry	Illinois Producers Corporation, W. W. Spotswood 1.....
375	Richland.....	21	2 N	14 W	2,781	Weiler.....	Dry	C. B. Hill, J. Wood 1.....
376	Richland.....	26	4 N	10 E	3,130	Ste. Genevieve.....	Dry	Wayne Development Company, A. E. Wattleworth 1-B.....
377	St. Clair.....	28	2 S	6 W	2,576	"Trenton".....	Dry	L. A. Painter, H. C. Petrie 1.....
378	St. Clair.....	10	3 S	7 W	1,704	Silurian.....	Dry	Joe Longoria et al., J. Scholler 1.....
379	St. Clair.....	31	3 S	6 W	1,415	Lower Mississippian.....	Dry	Morrison, H. A. Smith 1.....
380	St. Clair.....	24	1 N	10 W	764	"Trenton".....	Dry	Blom and Jefferies Oil Company, Hy Harris 1.....
381	St. Clair.....	34	2 N	9 W	1,629	"Trenton".....	Dry	Harris et al., City Park 1.....
382	St. Clair.....	28	1 N	10 W	1,727	"Trenton".....	Dry	Dr. Rose, Orton 1.....
383	St. Clair.....	33	1 N	10 W	815	McClosky.....	Dry	R. A. Roth, Mense 1.....
384	Saline.....	1	8 S	7 E	2,919	St. Louis.....	Dry	Simon Henry et al., Seten 1.....
385	Saline.....	18	8 S	6 E	3,142	Devonian.....	Dry	J. Rowe et al., Summers 1.....
386	Saline.....	8	10 S	5 E	4,624	Hardinsburg.....	Dry	C. V. & F. W. Parker, Fee 1.....
387	Saline.....	15	10 S	6 E	1,795	Tar Springs.....	Dry	H. G. Spiller, A. Sisk 1.....
388	Saline.....	28	7 E	2,219	Maquojeta.....	Dry	Patier et al., J. O. Thaxton 1.....	
389	Schuyler.....	35	3 N	1 W	831	"Niagaran".....	Dry	J. Mackler, S. Simpson 1.....
390	Schuyler.....	2	3 N	3 W	676	St. Peter.....	Dry	H. M. Miller, J. R. Wilson 1.....
391	Schuyler.....	21	3 N	4 W	990	"Niagaran".....	Dry	A. W. Gerson, A. Foster 1.....
392	Schuyler.....	6	2 N	3 N	587	"Niagaran".....	Dry	Thompson et al., Eaton 1.....
393	Schuyler.....	9	3 N	2 W	981	"Trenton".....	Dry	O. A. Reed, B. Applegate 1.....

TABLE 7.—(Continued)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
394	Schuyler	22	3 N	2 W	738	"Niagaran"	O. A. Reed, S. F. Horney 1.....	Dry
395	Schuyler	15	3 N	3 W	604	"Niagaran"	M. Siegel, F. Hite 1.....	Dry
396	Scott.	17	13 N	12 W	935	Decorah	Erie Drilling Company; Neate 1.....	Dry
397	Shelby	18	10 N	6 E	2,049	Bethel	Max Pray et al, Russell Estate 1.....	Dry
398	Shelby	32	11 N	2 E	3,080	Devonian	Seaboard & Wiggins, Miller 1.....	Dry
399	Shelby	20	14 N	2 E	1,979	Lower Mississippian	Rex Development Company, O'Dell 1.....	Dry
400	Shelby	22	10 N	4 E	2,010	Ste. Genevieve	Paul Doran, F. G. Compton 1.....	Dry
401	Shelby	36	12 N	5 E	1,465	Aux Vases	Baugher, Anderson 1.....	Dry
402	Shelby	14	9 N	4 E	2,005	Bethel	Goad, Goad 1.....	Dry
403	Shelby	33	10 N	4 E	2,005	Aux Vases	P. Doran, Yake-Gallagher 1.....	Dry
404	Shelby	23	10 N	5 E	1,926	Paint Creek	Doran et al, Fritz 1.....	Dry
405	Shelby	36	13 N	2 E	1,035	Pennsylvanian	L. Trulock, H. Lantz 1.....	Dry
406	Tazewell	15	22 N	5 W	440	Pennsylvanian	W. E. Adams, Mullinex 1.....	Dry
407	Tazewell	28	24 N	2 W	1,235	Silurian	H. V. House, W. H. Greening 1.....	(3)
408	Wabash	11	12 W	2,232	McClosey	Pollock, Whiteside 1.....	Dry	
409	Wabash	31	1 N	12 W	2,143	Cypress	D & H Drilling Company, Trapp Bros. 1.....	Dry
410	Wabash	24	1 S	13 W	2,038	Tar Springs	C. A. Carter et al, H. A. Steckly 1.....	Dry
411	Wabash	6	1 S	12 W	2,434	McClosky	C. Evans, Trapp 1.....	Dry
412	Wabash	17	1 S	12 W	2,050	Weiler	Delta Drilling Company, Dr. Utter 1.....	Prod.*
413	Wabash	16	2 S	13 W	2,448	Weiler	J. R. Mitchell et al, C. M. Basson 1.....	Dry
414	Wabash	17	2 S	13 W	2,843	McClosky	Magnolia Petroleum Company, E. Eifer 1.....	Dry
415	Wabash	4	1 N	13 W	2,743	McClosky	Riddle et al, Seibert 1.....	Prod.*
416	Wabash	5	1 N	13 W	2,787	Ste. Genevieve	Central States Oil Company, C. B. Brines 1.....	Dry
417	Wabash	4	2 S	13 W	2,494	Weiler	Mabee Drilling Company, Bump 6.....	Dry
418	Wabash	16	1 S	12 W	2,053	Weiler	O'Meara, Couch 1.....	Dry
419	Wabash	14	2 S	13 W	2,805	Weiler	Lindas Rose 1.....	Dry
420	Wabash	3	3 S	14 W	2,589	Weiler	R. Ryan et al, Sigert 1.....	Dry
421	Wabash	2	1 N	12 W	1,950	Weiler	Pollock, Cisel 1.....	Dry
422	Wabash	7	1 N	12 W	1,556	Pennsylvanian	Hartman, Litherland 1.....	Dry
423	Wabash	27	1 S	13 W	2,626	McClosky	B. Lambert, Sieler 1.....	Prod.*
424	Wabash	7	1 N	12 W	1,600	Pennsylvanian	Snowden, Litherland 1.....	Dry
425	Wabash	28	1 S	13 W	2,758	Ste. Genevieve	D. H. Whately, Fearheiley 1.....	Dry
426	Wabash	9	1 N	13 W	2,749	Ste. Genevieve	Hayes et al, Gimpel 1.....	Dry
427	Wabash	7	2 N	12 W	1,550	R. B. Martin, Pixley 1.....	Dry	
428	Wabash	35	2 N	12 W	1,450	Pennsylvanian	Leighty et al, W. Trimble 1.....	Dry
429	Wabash	7	2 S	13 W	2,895	Ste. Genevieve	Ryan Oil Company, Schafer Estate 1.....	Dry

430	Wabash.....	11	Ste. Genevieve.....	2,886	N. V. Duncan, Schroeder 1.....
431	Wabash.....	36	Ste. Genevieve.....	2,580	Hayes et al, Zimmerman 1.....
432	Wabash.....	11	Ste. Genevieve.....	2,750	D & H Drilling Company, L. F. Beall 3.....
433	Washington.....	25	Glen Dean.....	943	H. Hubbard, A. Carson 1.....
434	Washington.....	3	Paint Creek.....	1,642	Chicago Syndicate A, Hanke 1.....
435	Washington.....	32	McClosky.....	1,652	Magnolia Petroleum Company, Boneczyk 1.....
436	Washington.....	23	Bethel.....	1,538	Gulf Refining Company, Buhl 1.....
437	Washington.....	9	Devonian.....	3,152	Ohio Oil Company, E. Buchner 1.....
438	Washington.....	33	Fredonia.....	1,534	Gardner and Woods, Harre 1.....
439	Washington.....	14	Bethel.....	1,635	Esperanza, Baldwin 1.....
440	Washington.....	23	Ste. Genevieve.....	1,861	Kyatt, Smith 1.....
441	Washington.....	13	Bethel.....	1,547	H. C. Gass, Kasten 1.....
442	Washington.....	22	Devonian.....	3,199	Mudge, E. Mitchell 1.....
443	Washington.....	27	Bethel.....	1,654	Pitchford et al, W. J. Hafer 1.....
444	Washington.....	28	Bethel.....	1,326	Gardner Petroleum Company, Frederking 1.....
445	Washington.....	18	Ste. Genevieve.....	1,649	Williams, S. Pijut 1.....
446	Washington.....	30	St. Louis.....	1,220	Hubbard, Hunleth 1.....
447	Washington.....	27	Ste. Genevieve.....	4,444	Watt, Kentonhouse 1.....
448	Washington.....	19	Cypress.....	1,032	Blalack et al, Keifer 1.....
449	Washington.....	19	Bethel.....	1,070	H. Hubbard, Hunleth 2.....
450	Washington.....	5	Bethel.....	1,665	Barton et al, Edmonton 1.....
451	Washington.....	31	Weier.....	926	L. Lilleay, Noble 1.....
452	Washington.....	33	Ste. Genevieve.....	1,671	J. Pugh, Wynn 1.....
453	Washington.....	29	Bethel.....	1,186	DeKahl et al, Hundlith 3.....
454	Washington.....	29	Ste. Genevieve.....	1,155	W. C. McBride, Inc., H. Friedman 1.....
455	Wayne.....	21	St. Louis.....	3,487	J. Russell, Thilmon 1.....
456	Wayne.....	24	Menard—Vienna.....	2,525	A. J. Albright, Collins 1.....
457	Wayne.....	24	McClosky.....	1,434	South State Dev. Co., William Grubb 1.....
458	Wayne.....	31	McClosky.....	6 E	Ozier et al, Accola 1.....
459	Wayne.....	12	Ste. Genevieve.....	3,300	H. Randal, Horton 1.....
460	Wayne.....	7	Ste. Genevieve.....	3,413	Pure Oil Company, L. Miller 1-A.....
461	Wayne.....	1	Ste. Genevieve.....	3,105	Nelson and Straver, Vaughn 1.....
462	Wayne.....	22	Ste. Genevieve.....	3,498	Jarvis Bros. et al, F. Hazel Estate 1.....
463	Wayne.....	22	Ste. Genevieve.....	3,151	Ste. Genevieve.....
464	Wayne.....	9	McClosky.....	3,434	McClosky.....
465	Wayne.....	3	Ste. Genevieve.....	3,302	Ste. Genevieve.....
466	Wayne.....	3	McClosky.....	3,427	McClosky.....
467	Wayne.....	1	Ste. Genevieve.....	3,300	Ste. Genevieve.....
468	Wayne.....	20	McClosky.....	3,312	Ste. Genevieve.....
469	Wayne.....	24	Ste. Genevieve.....	3,036	McClosky.....
470	Wayne.....	2	Ste. Genevieve.....	3,084	Ste. Genevieve.....
471	Wayne.....	25	McClosky.....	3,366	McClosky.....
472	Wayne.....	29	Ste. Genevieve.....	3,084	Ste. Genevieve.....
473	Wayne.....	3	McClosky.....	3,277	Ste. Genevieve.....
			Ste. Genevieve.....	3,087	McClosky.....
			Ste. Genevieve.....	3,373	McClosky.....

OIL AND GAS DEVELOPMENT IN 1940

TABLE 7.—(Concluded)

No.	County	Location			Total depth (Feet)	Deepest horizon tested	Company and farm name	Re-marks
		Sec.	Twp.	Rge.				
474	Wayne	4	3 S	8 E	3,496	McClosky	M.I.O.U. Corporation, H. French 1.....	Prod.*
475	Wayne	4	3 S	8 E	3,569	Ste. Genevieve	Ichenhauser and Brentano, C. Shreves 1.....	Dry
476	Wayne	17	3 S	8 E	3,522	Ste. Genevieve	Lavender and French, T. G. Puckett 1.....	Dry
477	Wayne	2	2 S	7 E	3,340	McClosky	H. H. Weinert—C. Bright 1.....	Prod.*
478	White.	28	3 S	9 E	3,505	McClosky	Bishop, Harrington, Bush et al, G. Griffin 1.....	Prod.*
479	White.	31	5 S	10 E	3,195	St. Louis	R. W. Siemakar, Hannah 1.....	Dry
480	White.	27	6 S	9 E	2,764	Walterburg	Bates and Lichlyter, Aud 1.....	Prod.*
481	White.	2	7 S	9 E	3,250	St. Louis	Kingwood Oil Company, Bayley 1.....	Dry
482	White.	36	4 S	10 E	3,095	Ste. Genevieve	Phillips, Cleveland 1.....	Dry
483	White.	14	6 S	10 E	3,131	Ste. Genevieve	Carl Robinson, Randolph Heirs 1.....	Dry
484	White.	18	6 S	10 E	1,585	Pennsylvanian	F. M. Blair, McCarthy 1.....	Dry
485	White.	33	3 S	9 E	3,519	Ste. Genevieve	Cooke Oil Company, G. Griffin 1.....	Dry
486	White.	28	5 S	8 E	3,482	St. Louis	C. D. Neff et al, Buss Heirs 1.....	Dry
487	White.	35	3 S	9 E	3,520	St. Louis	L. Horton et al, Schoemann 1.....	Dry
488	White.	2	4 S	9 E	3,375	Ste. Genevieve	Sun Oil Company, C. Brown 1.....	Prod.*
489	White.	31	4 S	11 E	5,349	Devonian	Phillips Petroleum Company, Garr 1.....	Dry
490	White.	22	4 S	14 W	3,005	Ste. Genevieve	P. Miller, Ford Heirs 1.....	Dry
491	White.	35	5 S	9 E	2,043	Chester	Y. Rogers, Holderbee Estate 1.....	Dry
492	White.	35	6 S	9 E	3,698	St. Louis	Carter, W. L. Questell 1.....	Dry
493	White.	3	4 S	9 E	3,500	Ste. Genevieve	Ladas, Kershaw 1.....	Dry
494	White.	34	6 S	10 E	3,095	Ste. Genevieve	Jarvis Bros., A. Ackerman 1.....	Dry
495	White.	13	6 S	10 E	2,960	Ste. Genevieve	J. B. Flemming, Holderman 1.....	Dry
496	White.	2	7 S	10 E	2,993	St. Louis	Eason Oil Company, Pearce 1.....	Dry
497	White.	30	6 S	9 E	3,170	Ste. Genevieve	Bay Oil Company, E. Holmes 1.....	Dry
498	White.	8	7 S	10 E	3,075	St. Louis	Sitesinger et al, Miller 1.....	Dry
499	White.	21	3 S	8 E	3,539	Ste. Genevieve	Orient, L. Foraker, Morgan 1.....	Dry
500	White.	5	5 S	9 E	3,375	Ste. Genevieve	W. M. Angle, C. O. Myers 1.....	Dry
501	White.	22	3 S	10 E	3,283	St. Louis	Morrison and Noah, S. Kershaw 1.....	Dry
502	White.	9	4 S	8 E	3,506	Ste. Genevieve	Cobb and Briscoe, J. Beer 1.....	Dry
503	White.	11	5 S	9 E	3,465	Ste. Genevieve	Robinson, Taylor 1.....	Dry
504	White.	30	3 S	9 E	3,602	Ste. Genevieve	C. A. French et al, Mae Roy 1.....	Dry
505	White.	28	3 S	14 W	2,617	Weiler	Patton and Carey, Reeves Heirs 1.....	Prod.*
506	White.	26	5 S	9 E	3,167	McClosky	Mazda and Palmer, L. Storms 1.....	Prod.*
507	White.	7	5 S	14 W	2,911	Aux Vases	O. O. Borden, J. McCallister 1.....	Prod.*
508	White.	32	6 S	9 E	3,154	Ste. Genevieve	J. T. Bradley, C. Randolph 1.....	Dry
509	White.	29	3 S	9 E	3,486	McClosky	Hayes and Goad—Goad 1.....	Prod.*

510	White.....	25	6 S	8 E	2,528	Hardinsburg.....	J. W. Carter et al—Johnson 1.....	Prod.*
511	White.....	26	6 S	8 E	3,077	McClosky.....	Mercer Bros—Chapman 1.....	Prod.*
512	White.....	27	4 S	14 W	2,296	Tar Springs.....	Superior—Fittion 2.....	Prod.*
513	White.....	36	4 S	10 E	2,971	Aux Vases.....	Neff—Garner 1.....	Prod.*
514	White.....	13	7 S	8 E	2,248	Tar Springs.....	Kingwood—Martin 1.....	Prod.*
515	White.....	11	7 S	9 E	1,516	Pennsylvania.....	Carter Oil Company—Dagley 1.....	Prod.*
516	White.....	19	8 S	10 E	2,742	McClosky.....	Colbeck—Egyptian T. and T. Co. 1.....	Prod.*
517	Williamson.....	2	1 E	2 E	2,232	St. Louis.....	Carterville Oil and Gas Co., M. B. Culp 1.....	Dry
518	Williamson.....	4	9 S	2 E	1,630	Cypress.....	J. Blalack et al, W. P. Hill 1.....	Dry
519	Williamson.....	9	9 S	2 E	2,561	Ste. Genevieve.....	Blalack, Smothers 1.....	Dry
520	Williamson.....	1	10 S	1 E	2,045	Ste. Genevieve.....	Carterville Oil and Gas Company, L. Cannon 1.....	Dry
521	Williamson.....	1	10 S	1 E	2,020	Nation Oil Company, Coleman 1.....	Nation Oil Company, Coleman 1.....	Dry
522	Woodford.....	31	26 N	1 E	2,175	St. Peter.....	Morton Oil and Gas Company, Moreland 1.....	Dry
523	Woodford.....	18	25 N	1 E	1,770	"Trenton".....	Morton Oil and Gas, J. E. Rocke 1.....	Dry

* Discovery well of new pool or extension; see table.

1 Extension.

2 3,000,000 cubic feet gas.

3 Junked Holes.