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DEVELOPMENTS IN ILLINOIS AND INDIANA IN 1952¹

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ABSTRACT

In Illinois and Indiana, 3,357 wells were drilled for oil and gas in 1952 as compared with 3,702 in 1951, a decrease of 9 per cent. Total oil production increased 1.6 per cent, from 70,841,000 barrels in 1951 to 72,008,000 barrels in 1952. Exploratory drilling decreased from 1,483 completions in 1951 to 1,181 in 1952. Forty-six new pools, 97 extensions, and 55 new producing zones were discovered in the two states in 1952.

As in previous years, most of the discoveries in 1952 were in Mississippian formations. Six new pools produced from Pennsylvanian sandstones, 7 from Devonian or Silurian limestones, and 1 from Ordovician limestone.

INTRODUCTION

In Illinois and Indiana, 3,357 wells were drilled for oil and gas in 1952 as compared with 3,702 in 1951, a decrease of 9 per cent. Total oil production increased 1.6 per cent, from 70,841,000 barrels in 1951 to 72,008,000 barrels in 1952. Exploratory drilling decreased from 1,483 completions in 1951 to 1,181 in 1952, a decrease of 20 per cent. Forty-six new pools, 97 extensions, and 55 new producing zones were discovered in the two states in 1952.

In the Illinois basin area (southern Illinois and southwestern Indiana) 32 out of 46 discovery wells of new pools produced from Mississippian formations (21 in the Chester series and 11 in the Lower Mississippian). Of the other 14 discovery wells of new pools, 6 produced from Pennsylvanian sandstone, 7 from Devonian or Silurian limestone, and 1 from Ordovician limestone.

ILLINOIS

BY ALFRED H. BELL

In Illinois 2,077 wells were drilled for oil and gas in 1952 as compared with 2,383 in 1951, a decrease of 13 per cent. (These figures are exclusive of water- or gas-input wells, salt-water disposal wells, and old wells worked over.) This drilling resulted in 802 oil wells, 17 gas wells, and 1,258 dry holes.

Of the 2,077 wells drilled, 663 were wildcats, as compared with 839 wildcats in 1951, showing a decrease of 21 per cent in 1952. Of the wildcat wells in 1952, 256 were drilled more than 2 miles from production ("wildcats far"), of which 8, or 3.1 per cent, were successful. In 1951, 4.8 per cent were successful.

Of the 663 wildcat wells drilled, 24 discovered new pools, and 55 discovered extensions to pools (Tables I and II). In addition, 27 wells, most of which can not be classified properly as exploratory wells, discovered additional producing zones in known producing areas (Table III).

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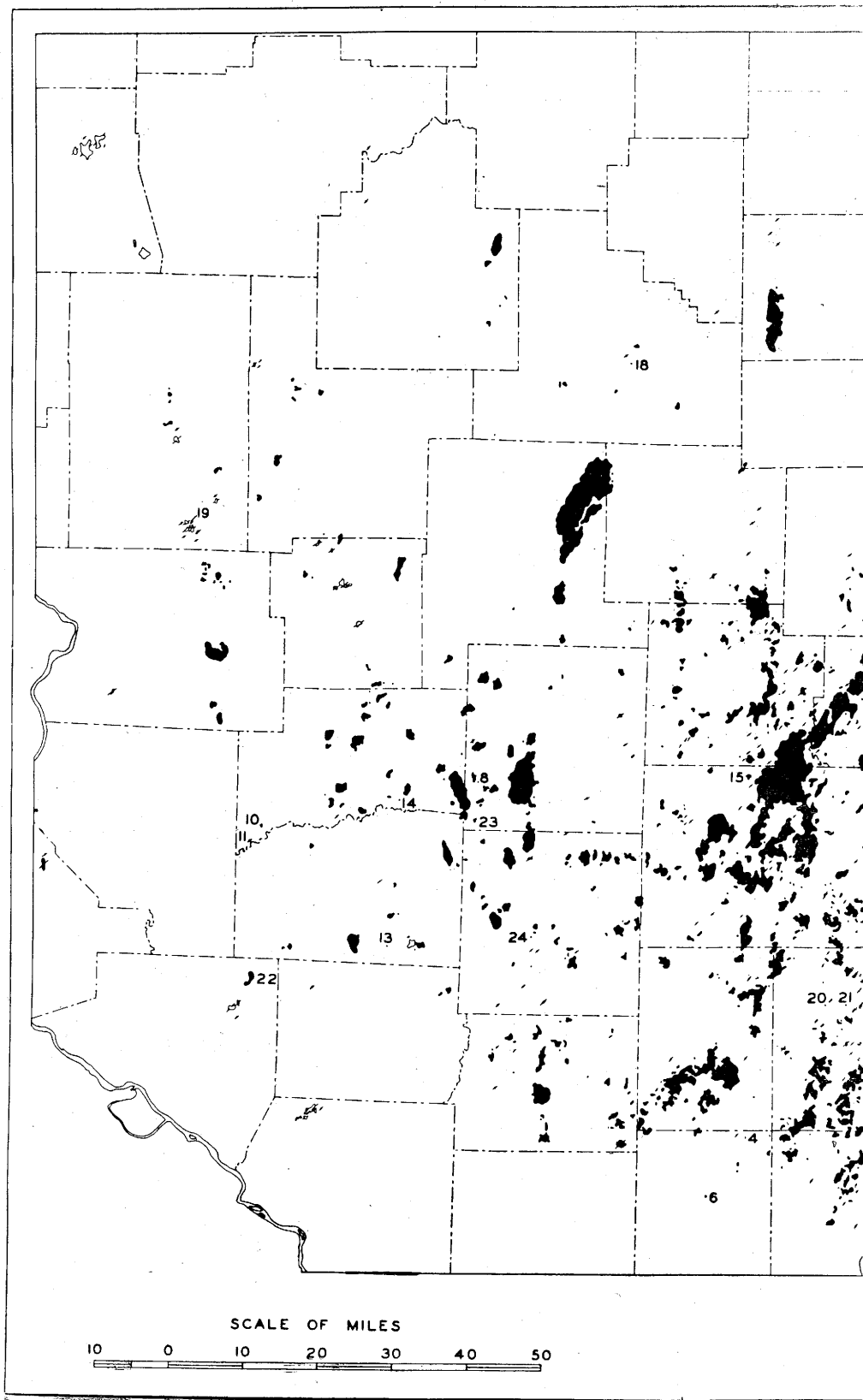
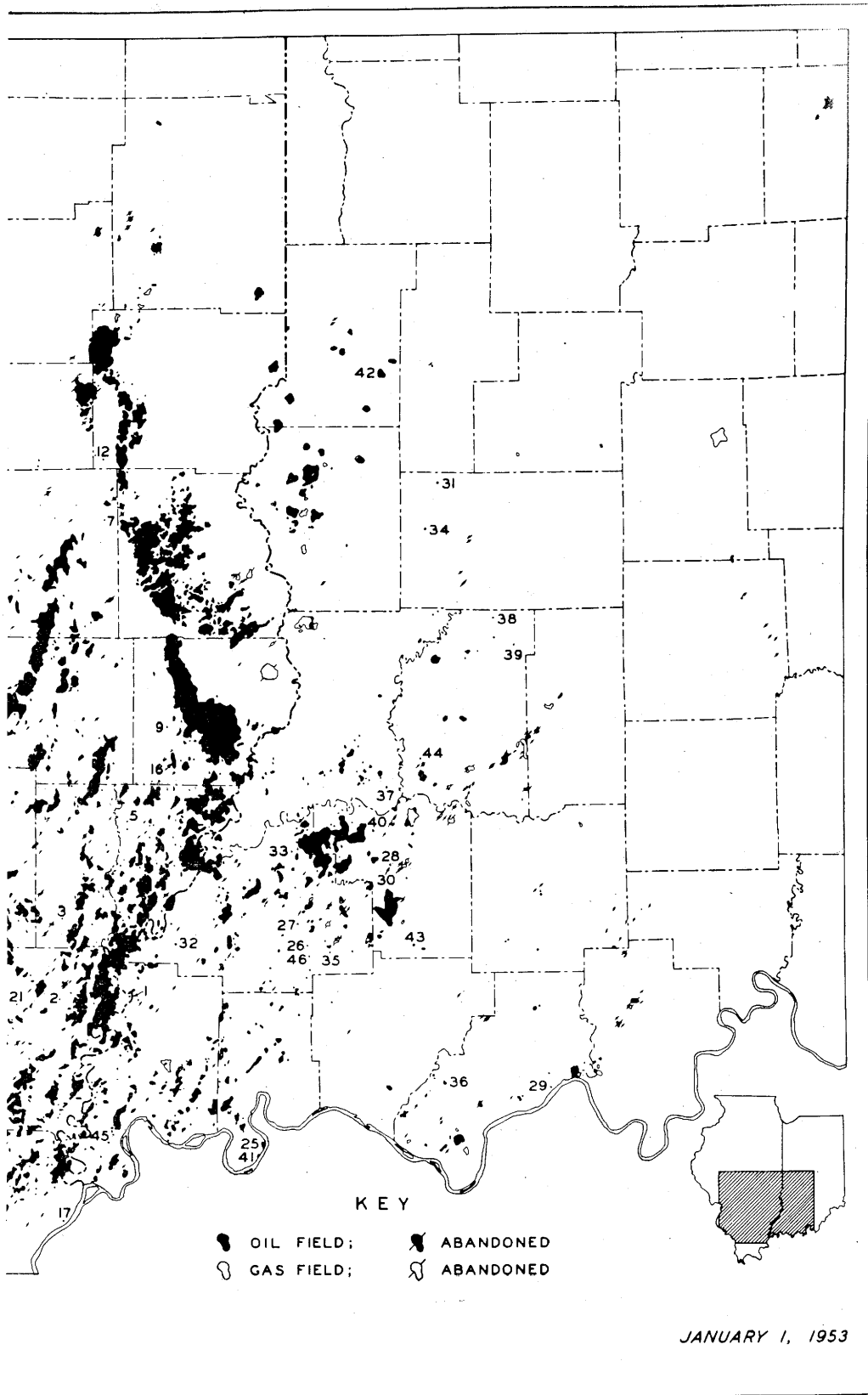


FIG. 1.—Oil and gas pools in Illinois and Indiana



Numbers indicate new pools discovered in 1952.

TABLE I. DISCOVERY WELLS OF NEW POOLS IN ILLINOIS IN 1952

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Depth to Top (Feet)	Initial Production (Bbl.) ^a	Date of Completion	No. Wells Producing in Pool Dec. 31, 1952
1. Black River*	White	Carter Oil & C. H. Carroll	19-4S-13W	3,071; PB 1,886	Clore	1,807	45; 7	4-15	1
2. Crossville West	White	W. O. Lucas & S. A. Goodman	22-4S-10E	3,230; PB 3,066	Aux Vases	3,029	15; 15	5-20	1
3. Ellery East	Edwards	Hendon Drig, I. B. Curtis	27-2S-10E	3,802; PB 3,250	Lower Ohara	3,234	85; 5	9-16	1
4. Francis Mills	Saline	Ronald Jones & Mahoney A	21-7S-7E	2,086	Cypress	2,076	144	4-15	1
5. Gardis Point North	Wabash	W. L. Griffith & Fxley Hrs.	24-1N-14W	2,854	Lower Ohara	2,850	100	12-9	1
6. Harrisburg Gas	Saline	R. Halbert & B. Harris	34-8S-6E	2,194	Tar Springs	2,080	4,656,000 cu. ft.	9-30	1
7. Hunt City East	Iasper	Continental & G. E. McCoy	4-7N-14W	1,850	Fredonia	1,844	154; 16	3-4	1
8. Junction City South	Marion	S. E. Mervin & Gibson	32-2N-1E	705	Petro	686	6; 1	9-23	1
9. Lawrence West	Lawrence	Moss and Wilson & H. Neal	23-3N-13W	2,126	Bethel	2,048	225	12-23	1
10. New Memphis	Clinton	Guil. I. E. Oelze	3-1S-5W	2,077	Silurian	1,942	2	1-8	3
11. New Memphis South	Clinton	J. Kohlrecker & E. Krausz	17-1S-5W	2,052	Devonian	2,000	40; 40	2-5	0
12. Oak Point	Clark	E. Kozmik & Kipler	29-9N-14W	2,595; PB 2,350	Carper	2,222	8; 40	9-30	1
13. Posey East	Washington	O. B. Chering & Kitowski	21-3S-2W	3,935	Trenton	3,878	182	10-21	1
14. Rhoad North	Clinton	O. Battillo & W. Wessel	15-1N-2W	2,767	Devonian	2,699	17	10-28	1
15. Rhoad West	Wayne	R. Halbert & C. Sme	28-2N-7E	3,189	McClosky	3,126	146	9-12	9
16. Ruark West	Lawrence	Coy Oil & W. M. Prout	12-2N-13W	2,438	Lower Ohara	2,358	217	6-3	31**
17. Shawneetown East	Gallatin	Ashoff & J. Legsden	23-9S-10E	2,670	Aux Vases	2,660	50	8-26	1
18. Shelbyville East	Shelby	Lynch & I. E. K. Dove	27-1N-7E	3,301; PB 1,825	Aux Vases	1,811	17; 2	3-11	1
19. Straunton	Macoupin	R. Updike & G. Groves	14-7N-7W	523	Pennsylvanian	514	4	2-12	1
20. Sumpter North	White	E. B. Obering & D. Morrill	21-4S-9E	3,188	Aux Vases	3,181	150; 50	9-30	3
21. Sumpter West	White	D. B. Lesh & J. Shoeman	27-4S-9E	3,172	Aux Vases	3,166	14	12-16	1
22. Tilden†	Randolph	Jet Oil & C. Easdale	16-4S-5W	2,228	Silurian	2,143	65	10-7	10
23. Wamac East	Marion	J. T. Underwood & S. Copple	29-1N-1E	854	Petro	845	18	7-1	1
24. Williams South	Jefferson	Slvka & J. W. Dare	10-3S-2E	2,814; PB 2,509	Bethel	2,491	50	3-4	1

^a Oil and Water.

* First well in Illinois; pool discovered in Indiana.

** Includes Helena and Lancaster North, which were consolidated with it.

† Discovered in November, 1951; completion data not released until October, 1952.

DEVELOPMENTS IN ILLINOIS AND INDIANA IN 1952

TABLE II. DISCOVERY WELLS OF EXTENSIONS TO POOLS IN ILLINOIS IN 1952

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Depth to Top (Feet)	Initial Production (Bbl./A)	Date of Completion
1. Allendale	Wabash	George & Wrather i H. A. Fox	26-1N-12-W	2,352; PB 1,680	Tar Springs	1,660	28	10-21
2. Allendale	Wabash	Calvert Drig. i Crowl	24-1N-12-W	7,510	Bell	1,598	35	5-27
3. Assumption South	Clinton	H. Cooper & K. Long	22-12-N-2-E	2,645	Devonian	2,624	9	9-23
4. Bartleso West	Washington	A. Schiermann i H. Albers	13-1N-14-W	994	Cypress	984	4	12-23
5. Beaucoup South	Jasper	D. Hopkins i W. Finke	34-2S-2-W	1,442	Bethel	1,430	1; 20	1-8
6. Bogota	Marion	D. Slape i F. Brooks	22-6N-0-E	850	Rosclaire	3,688	3; 25	4-15
7. Brown	Hamilton	T. M. Pruet i Morris-Frazier Comm.	16-1N-1-E	3,409	Petro	843	8	5-6
8. Bungey Consol.	Hamilton	Texas i C. Epperson	20-4S-7-E	3,435; PB 2,816	McClosky	3,406	9	8-10
9. Canaan	White	Nation i S. J. Endicott	24-5S-0-E	3,533	McClosky	3,501	16; 56	9-9
10. Canaan	White	Deep Rock i Vaughn "A"	24-5S-0-E	3,410	Cypress	2,796	16; 38	8-5
11. Canaanville	White	O. B. Lesh i J. Jones	12-4S-0-E	3,414	Lower Ohara	3,317	225	10-14
12. Clay City Consol.	Richland	Bell Bros. i D. Young	33-5N-10-E	2,614	Lower Ohara	3,311	140	6-24
13. Clay City Consol.	Jasper	Calvert Drig. i H. L. Eberhardt	21-5N-10-E	2,603	McClosky	2,905	144	8-26
14. Concord	White	Clark & Clark i E. Ackerman	34-6S-10-E	2,038	McClosky	2,884	193; 52	4-8
15. Concord South	White	Tuley & Carter i S. J. Tuley et al.	8-7S-10-E	2,198	Aux Vases	2,900	110	12-9
16. Dale Consol.	Hamilton	Texas i W. T. Lane	32-5S-0-E	3,463	Aux Vases	2,868	15; 2	12-2
17. Dale Consol.	Hamilton	Carter Oil i J. D. Lockwood	15-6S-5-E	3,420	McClosky	3,255	26; 67	11-18
18. Dale Consol.	Hamilton		15-6S-5-E	3,420	Aux Vases	3,245	147; 160	4-15
19. Ellery West*	Wayne	Stanford Oil i A. E. Seifert	35-2S-0-E	3,383; PB 3,116	Lower Ohara	3,291	130; 4	5-13
20. Ellery West*	Wayne	Indiana Farm Bureau i N. Duke	14-2S-0-E	3,460	Bell	3,103	71	5-13
21. Enfield	White	Mack Holt i E. Biggers†††	33-5S-8-E	3,494; PB 3,350	McClosky	3,392	12; 14	8-12
22. Enfield	White	Ryan & Sharp i L. D. Appel	28-5S-8-E	3,146	Aux Vases	3,306	139	3-11
23. Fairfield East	Wayne	Stanford Oil i A. McGehee	4-5S-8-E	3,147	McClosky	3,130	35	1-29
24. Goldengate West	Wayne	Collins Bros. i Jones	5-2S-9-E	3,249	Bethel	3,097	107; 75	10-21
25. Goldengate West	Wayne	Continental Drig. i Hoffee	6-2S-9-E	3,380	Aux Vases	3,222	130	11-25
26. Hard	Clay	Misener Drig. i G. F. Van Dyke	15-5N-6-E	2,874	McClosky	3,336	112	4-15
27. Inman East Consol.	Gallatin	Inland Producers i A. A. Pleimeter	28-8S-10-E	2,020; PB 2,006	Rosclaire	2,802	55; 50	8-12
28. Inman West Consol.	Gallatin	Calvert i J. B. Henderson	27-8S-0-E	2,151	Waltersburg	1,996	30; 2	9-2
29. Inman West Consol.	Gallatin	Nation i Westphalinger	12-8S-9-E	2,198	Reault	2,474	9; 13	11-18
30. Iron	White	Noah Petroleum i E. A. Harrell Comm.	14-6S-8-E	2,695	McClosky	2,941	60	7-8
31. Johnsonville West	Wayne	W. O. Lucas i F. A. Hufines	13-1N-5-E	3,100; PB 2,947	Hardsburg	2,610	11; 1	8-12
32. Johnsonville West	Wabash	Hayes Drig. i A. Ankenbrandt	14-1S-14-W	2,091	Bethel	2,927	65	8-12
33. Leighton North	Madison	Schenk Drig. i Leitch	34-6N-6-W	3,106	Lower Ohara	2,898	15	10-14
34. Long Branch	Hamilton	Calvert Drig. i H. E. Howard	16-7S-0-E	3,106	Pennsylvanian	501	110; 3	7-22
35. Long Branch	White	Ashland & O'Neil i Bingham	19-5S-14-W	2,313	Aux Vases	3,097	168	11-25
36. Mitchell	Edwards	A. J. Slagter, Jr. i C. Vallette	31-2S-10-E	3,162	McClosky	3,315	15	7-15
37. Mitchell	White	Skiles i Owens-Brown	20-4S-14-W	3,166	Tar Springs	2,335	7	10-28
38. New Harmony Consol.	Wabash	Calvert Drig. i M. W. Kleinschmidt	23-2S-14-W	3,149	McClosky	2,925	10; 150	5-27
39. Newton West	Jasper	Don Baines i O. Mitchell	34-7N-0-E	3,071	McClosky	3,007	16; 16	7-1
40. Parkersburg Consol.	Richland	George & Wrather i R. Harmon	20-3N-14-W	3,248; PB 2,375	Waltersburg	3,007	16; 16	7-1
41. Parkersburg Consol.	Edwards	Ryan Oil i F. Abernathy et al.	32-2N-14-W	3,171	Waltersburg	2,362	22; 2	2-5
42. Parkersburg South	Richland	Modoff & Anderson i H. Gray	18-4N-0-E	3,171	Rosclaire	3,087	32; 4	7-15
43. Phillips town Consol.	White	E. J. Cunningham i S. Ackerman	26-4S-10-E	3,113	Cypress	2,694	76; 3	10-21
44. Resat West Consol.	Jefferson	Cullum & Lawhead i Whitson	21-1S-3-E	3,176	Rosclaire	3,021	166	3-11
45. Resat West Consol.	Lawrence	W. Duncan i H. C. Albright	12-2N-13-W	3,453; PB 2,450	McClosky	2,731	600; 2	7-22
46. Sailor Springs Central	Jasper	Calvert Drig. i A. Jenkins	18-5N-11-E	3,081	Bethel	2,239	33	7-8
47. Sailor Springs Consol.	Clay	G. Marvin et al. i Kentzen	36-4N-7-E	3,081	McClosky	2,920	24; 70	11-4
48. Sailor Springs Consol.	Effingham	J. L. Black i G. Stortzen	22-6N-7-E	2,158	Tar Springs	2,330	19; 40	11-18
49. Sigeras	Clark	F. Fredenhagen i F. Miller	6-2N-14-W	2,500	Cypress	2,508	12; 4	7-8
50. Sigeras South	Clay	Superior i F. A. Lusk	7-2N-7-E	3,211	Pennsylvanian	460	2	11-11
51. Tancross	Perry	T. Glass i Zmudzinski	14-4S-1-W	3,116	Rosclaire	3,116	26; 25	4-8
52. Tancross Hill	Franklin	E. A. Obering i Webb	9-5S-4-E	3,127	Cypress	1,131	38	2-26
53. Trumbull	White	G. C. Schoonmaker i J. T. Saunders Comm.	16-3S-9-E	3,162	Lower Ohara	3,059	71	8-19
54. Trumbull	White	E. A. Obering i Scott	12-5S-8-E	3,367	Rosclaire	3,338	65	3-18
55. Trumbull	White	George & Wrather i M. M. Rose et al.	1-5S-8-E	3,375; PB 3,228	McClosky	3,309	27; 54	6-3
					Aux Vases	3,174	58	7-15

* Oil and water.
 †† Now included in Ellery Consol.

TABLE III. DISCOVERY WELLS OF ADDITIONAL PRODUCING ZONES IN POOLS IN ILLINOIS IN 1952

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Depth to Top (Feet)	Initial Production (Bbl.) ^A	Date of Completion of Well
1. Beauport Consol.	Washington	Collins Bros. 3 Stricker-Meinert "B"	10-2S-2W	4,102	Trenton	4,003	59; 30 ^B	11-25
2. Bone Gap Consol.	Edwards	V. R. Callagher 1 Buggs	10-1S-14W	2,341; PB 2,121	Pennsylvanian	2,108	18	11-25
3. Bone Gap Consol.	Edwards	V. R. Callagher 1 P. Schmidt	18-1S-14W	3,141; PB 2,896	Bethel	2,878	150	7-1
4. Bone Gap Consol.	Edwards	V. R. Callagher 1 F. R. Sester	18-1S-14W	2,117	Waltersburg	2,317	17	1-15
5. Brown	Marion	T. M. & W. H. Morris-Frazier Comm.	16-1N-1E	850	Petro	843	8	5-6
6. Clay City Consol.	Clinton	E. J. & W. H. Worth 2 Haunesser	15-3N-3W	1,123; PB 1,070	Golconda	062	3; 8	6-10
7. Clay City Consol.	Clinton	Pure 2 F. Walters	15-3N-3E	3,643	Warsaw	3,598	54; 90 ^C	12-23
8. Clay City Consol.	Richard	Ill. Wild-Continer 2 Wheeler	23-3N-0E	2,508; PB 2,188	Waltersburg	2,174	14; 10	9-16
9. Epworth Consol.	White	B. Lambert 1 Calverton	25-2S-0E	3,140	St. Louis	3,418	250 ^B	11-11
10. Epworth Consol.	White	Oil Management of Hanna	35-2S-10E	3,005; PB 1,104	Waltersburg	2,350	35 ^B	11-11
11. Epworth Consol.	White	W. O. O'Leary 2 A. Maloney	35-2S-10E	1,625	Pennsylvanian	1,000	4,500,000 cu. ft.	11-18
12. Inman West Consol.	Gallatin	H. & H. O'Leary 1 Haines	35-2S-10E	3,100; PB 2,047	Pennsylvanian	1,885	11; 1	4-29
13. Johnsonville West	Wayne	W. O. O'Leary 2 C. McCullum	12-3N-3E	3,104; PB 2,050	Bethel	2,820	54; 3	8-12
14. Leaden	Fayette	Carter 1 F. H. Gibson	6-8N-12W	1,476; PB 1,123	Hardinsburg	1,074	168	10-21
15. Maan	Crawford	Skiles 1 F. H. Gibson	10-2S-14W	2,111	Waltersburg	2,303	18	11-25
16. Maunna North	White	Ashland & O'Neil 1 Bingham	10-2S-14W	3,188; PB 3,350	Aux Vases	3,214	20; 10	1-15
17. Mitchell	White	Pappas & Ashland 1 Allison Hts.	30-2S-0E	7,882; PB 5,796	Salem	3,753	300,000 cu. ft.	9-30
18. New Harmony Consol.	White	Superior 17 H. C. Ford "C"	27-2S-12W	1,513	Aux Vases	1,490	22; 2	8-12
19. New Harmony Consol.	White	George & Wraseth 1 V. R. Harmon	29-3N-11W	3,178; PB 2,375	Devonian	2,953	172; 80	2-5
20. Parkersburg Consol.	Richard	George & Wraseth 1 W. H. Wraseth	34-3N-11W	3,182; PB 2,357	Devonian	2,846	10	10-14
21. Phillipsown South	Marion	Tabot & Wraseth 1 F. T. Davidson	10-2S-10E	3,117	Tar Springs	2,107	110; 15 ^B	8-12
22. Phillipsown South	White	Audrey-Tennant 1 H. Hardacre	15-3N-13W	2,405	Cypress	2,204	172 ^B ; 5	6-24
23. Quark West Consol.	Lawrence	W. Duncan 1 H. Hardacre	13-3N-13W	3,065; PB 2,370	Bethel	2,330	19; 40	11-18
24. Quark West Consol.	Chry	Co. Oil 1 O. Siegl	30-N-17E	3,155; PB 3,038	Rosiclare	3,139	26	11-25
25. Sutor Springs Central	White	George & Wraseth 1 F. H. E. Brown	32-4S-10E	3,122; PB 3,038	Aux Vases	3,022	125	1-8
26. Sumpter East	White	George & Wraseth 1 F. H. E. Brown	32-4S-10E					
27. Sumpter East	White	George & Wraseth 1 F. H. E. Brown	32-4S-10E					

^A Oil and water.

^B Producing from 2 pays.

^C Producing from 4 pays.

* Now in Elery Consol.

DEVELOPMENTS IN ILLINOIS AND INDIANA IN 1952 1307

TABLE IV. SELECTED LIST OF DRY TESTS

Pool	County	Company and Farm	Location	Total Depth (Feet)	Deepest Formation	Depth to Top (Feet)	Date of Completion
1.	Alexander	Prindle & Vick 1 Petty	19-16S-2W	1,058	St Peter	1,003	4- 8-52
2.	Alexander	Vick Oil 1 Smith	15-17S-2W	1,847	Knox	1,686	8- 5-52
3.	Clark	J. Reznik 1 Washburn	32-9N-14W	2,881	Devonian	2,490	10- 7-52
4.	Clinton	Sun Oil 1 E. Kahre	21-1N-2W	2,806	Silurian	2,727	4-29-52
5.	Clinton	R. K. Hammel 1 O. W. Billhartz	6-1N-5W	2,858	Trenton	2,747	10-21-52
6.	Crawford	West Drlg. Co. 1 Brown	12-7N-11W	2,826	Devonian	2,727	10-2-52
7.	Cumberland	A. J. Slagter 1 C. Layton	20-10N-8E	3,900	Devonian	3,728	11-25-52
8.	DeWitt	Theo. Myers 1 Fink	25-19N-1E	2,903	Devonian	1,913	4-15-52
9.	Douglas	H. R. Lippitt 1 Green-Martin Comm.	17-14N-10E	1,278	Devonian	985	6-17-52
10.	Edgar	F. B. Cline 1 Hughes & Powers	15-15N-14W	1,944	Trenton	1,751	10- 7-52
11.	Effingham	Pure 1 W. J. Dammerman	33-8N-5E	3,938	Silurian	3,873	6-10-52
12.	Fayette	P. D. Todhunter 2 C. Belcher	16-4N-1W	2,892	Devonian	2,783	10- 9-52
13.	Fayette	Sun Oil 1 H. Sommers	19-9N-1E	3,035	Devonian	2,921	7- 8-52
14.	Jasper	Turnipseed & Formals 1 Hartrich	30-6N-11E	4,500	Devonian	4,366	1-29-52
15.	Macon	H. C. Herring 1 T. E. Hays	33-17N-2E	2,102	Silurian	2,066	5-29-52
16.	Madison	The California Co. 1 A. Kurtz	1-3N-6W	2,655	Decorah	2,650	6-17-52
17.	Menard	E. Zink 1 J. H. Walker	32-18N-7W	1,238	Devonian	1,209	11-18-52
18.	Monroe	C. Jensen 1 Stumpf	31-2S-10W	1,152	St. Peter	1,147	7-22-52
19.	Monroe	Mississippi River Fuel A-15 Theobald	35-1S-10W	2,768	Pre-Cambrian	2,760	3-12-52
20.	Montgomery	E. L. Wirth 2 Poggenpohl	10-10N-4W	2,090	Silurian	2,021	10-14-52
21.	Montgomery	Superior Oil 1 L. E. Lanigan	17-8N-3W	2,125	Devonian	2,016	9-16-52
22.	Montgomery	Superior Oil 1 W. Singler	3-8N-2W	3,250	Trenton	3,174	9-16-52
23.	Moultrie	E. A. Obering 1 B. A. McReynolds	18-14N-4E	3,494	Trenton	3,393	11- 4-52
24.	Perry	G. S. Engle 1 E. Mayer	22-5S-4W	2,665	Silurian	2,650	5- 6-52
25.	Randolph	H. F. Robison 1 J. Buckhorn	6-6S-6W	2,301	Trenton	2,246	11-11-52
26.	St. Clair	R. M. Dooley 1 Mugele	1-1N-6W	2,847	Trenton	2,747	7-15-52
27.	St. Clair	D. W. Forbes 1 Grandcolas	15-1S-7W	2,235	Trenton	2,137	12-16-52
28.	St. Clair	J. W. Jaske 1 Hankammer	4-1S-9W	1,253	Trenton	1,208	10-21-52
29.	St. Clair	J. W. Jaske 1 M. Keeser	28-1S-8W	1,450	Trenton	1,355	9- 9-52
30.	Sangamon	Gerhardt 1 John Puls	15-15N-7W	1,450	Devonian	1,265	8-26-52
31.	Shelby	T. Glass 1 W. W. Horsman	17-11N-3E	3,056	Devonian	2,922	10-14-52
32.	Washington	H. H. Weinert 1 Bonnat	36-3S-5W	3,208	Trenton	3,138	12-23-52
33.	Washington	L. V. Horton 1 M. Metalmann	6-3S-5W	2,862	Trenton	2,760	7-29-52
34.	New Harmony Consol.	White Superior Oil 17 H. C. Ford "C"*	27-4S-14W	7,682	Shakopee	7,509	9-30-52
35.	Whiteside	E. L. Wirth 1 Hannis	22-19N-4E	1,551	Trempealeau	1,520	8- 5-52

* Plugged back to Salem production.

Most of the drilling for oil and gas in Illinois in 1952, as in previous years, was in the structural basin of southern Illinois. Wells were drilled in 48 of the state's 102 counties, and producing wells were drilled in 29 counties. More than half the wells completed in 1952 were concentrated in six counties. These counties are White, 305 completions; Wayne, 298; Lawrence, 133; Hamilton, 117; Edwards, 101; Wabash, 87.

There were no major pools among the 24 discovered in Illinois in 1952. The largest pool was Ruark West, with 31 producing wells at the end of the year, but this figure includes also Helena and Lancaster North, which were consolidated with Ruark West. The Tilden pool, Randolph County, discovered in November, 1951, but not reported as a new pool till 1952, had 19 producing wells at the end of 1952. Rinard North in Wayne County had 9 producing wells at the end of the year (Table I).

Total oil production in Illinois in 1952 was 60,071,000 barrels as compared with 60,244,000 barrels in 1951, a decrease of approximately one day's production. Average daily production in 1952 was 164,000 barrels as compared with 165,000 barrels in 1951.

EXPLORATORY DRILLING

Exploratory wells were drilled in 47 counties in Illinois in 1952 and new pools

were discovered in 16 counties. All but 3 of the 47 counties in which exploratory wells were drilled are in the southern two-thirds of the state. Most of the new pools discovered in 1952 are within 2 or 3 miles of previous production. Exceptions were the Harrisburg gas pool in Saline County (Table I, line 6), 6 miles from previous production, the New Memphis pool in Clinton County (Table I, line 10), 8 miles from previous production, and the Tilden pool in Randolph County (Table I, line 22), 4 miles from the old abandoned Sparta pool.

Three of the new pools discovered during the year produce from the Pennsylvanian: Junction City South, Staunton, and Wamac East. All are closely associated with old pools (discovered before 1937), and all appear to be of minor importance. Four new pools produced from the Silurian or Devonian. One of these, New Memphis South, was abandoned before the end of the year. Another, Tilden, a Silurian reef pool, appears to be one of the best discoveries of the last few years. New Memphis and Posey East are probably commercially unimportant. The Posen pool produces from the Trenton and appears to be one of the more productive pools discovered during the year. All the other new pools produce from the Mississippian.

New deep pays opened during the year include the Warsaw limestone in the Clay City Consolidated pool, the first Warsaw production reported in the state, Trenton in the Beaucoup pool, previously a Devonian pool, and Devonian in Patoka East, which has resulted in considerable Devonian testing throughout the Patoka area. Most of the other new pays are Mississippian in age.

Unsuccessful Devonian or Silurian tests were drilled in Beaver Creek South, Langewisch-Kuester, and Mattoon. Two dry Trenton tests were drilled in the Colmar-Plymouth pool.

Wildcat deep tests were drilled to the Devonian or deeper in 33 of the 47 counties drilled in during the year. An unusually large percentage of all wildcat wells tested Devonian and Silurian pays. Few wells, however, tested pre-Trenton formations. Tests were made to the St. Peter sandstone or below in Alexander, Monroe, White, and Whiteside counties.

Oil production in the Tilden and New Memphis pools is from Silurian reefs. It seems probable that the search for reef oil production, which had its first success with the discovery of the Marine pool in Madison County in 1943, will continue for some time in the same general region of southwestern Illinois.

A list of some of the most noteworthy dry holes completed in 1952 is given in Table IV. All of these reached the Devonian or older rocks. They are located generally around the margin of the deep basin area of southern Illinois. An exception to this is the Superior Oil Company's H. C. Ford "C" No. 17, Sec. 27, T. 4 S., R. 14 W., White County (Table IV, No. 34), which is not far from the deepest part of the structural basin. This well has a total depth of 7,682 feet and it established a new depth record for drilling in Illinois. It ended in the Shakopee dolomite, the top of which was at depth 7,509 feet. The well was plugged back to 3,796 feet to produce from the Salem formation, the top of which was at depth 3,753 feet (Table III, No. 18).

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Another test well of special interest is the Mississippi River Fuel Corporation's A. Theobald No. A-15, SE. $\frac{1}{4}$, SW. $\frac{1}{4}$, Sec. 35, T. 1 S., R. 10 W., Monroe County (Table IV, No. 19), which was drilled as a stratigraphic test in connection with a proposed gas-storage operation on the Waterloo anticline in the area of the old abandoned Waterloo oil field. This well reached pre-Cambrian granite at the unexpectedly shallow depth of 2,760 feet; the basal Cambrian sandstone, the LaMotte, and some of the overlying strata normally present in the region are absent. Thus the Waterloo anticline lies over a pre-Cambrian hill several hundred feet high. A similar absence of these strata was previously found for the Pittsfield-Hadley anticline in Pike County,⁴ and is common in the St. Francois Mountains area of Missouri.

TABLE V. WILDCAT WELLS DRILLED IN ILLINOIS IN 1952

Wildcat Near ^A			Wildcat Far ^B			Total Wildcats	Total Producers	Percentage Successful
Total	Producers	Percentage Successful	Total	Producers	Percentage Successful			
404	61	15.1	256	8	3.1	660	69*	10.5

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

^B More than 2 miles from production.

* Ten of the discovery wells reported in Tables I and II were old dry holes reworked.

WILDCAT FAR WELLS CLASSIFIED BY METHOD OF LOCATION

Method of Location	Total	Producers	Percentage Successful
Geology	214	6	2.8
Geophysics	14	2	14.3
Geology and geophysics	5	0	0
Non-scientific	23	0	0
Total	256	8	3.1

METHODS OF EXPLORATION

The principal methods used in locating exploratory wells continued to be subsurface geology and the reflection seismograph (Table V). The amount of seismograph work in 1952 was 72 crew-months as compared with 44 crew-months in 1951, an increase of 63 per cent. Gravity-meter work increased from 13 crew-months in 1951 to 14 crew-months in 1952.

INDIANA

BY DONALD G. SUTTON

There were 1,280 wells drilled for oil and gas in Indiana during 1952, excluding water- or gas-input wells, salt-water disposal wells, and old wells worked over. This figure, compared with the total of 1,319 wells for 1951, represents a decrease of nearly 3 per cent. Of the 1,280 wells, 762 were drilled as field development wells and the remaining 518 were drilled as exploratory tests. These exploratory

⁴ L. E. Workman and Alfred H. Bell, "Deep Drilling and Deeper Oil Possibilities in Illinois," *Bull. Amer. Assoc. Petrol. Geol.*, Vol. 32 (1948), pp. 2043 and 2046.

TABLE VI. NUMBER OF GEOPHYSICAL CREWS ACTIVE IN ILLINOIS DURING 1952 BY MONTHS

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Seismograph	3	4	5	5	5	6	8	7	7	8	7	7
Gravity meter	1	1	1	2	2	2	0	1	1	1	1	1

tests consisted of 335 new-field wildcats, 129 new-pool wildcats, and 54 outposts. Drilling resulted in 429 oil wells, 25 gas wells, and 826 dry holes.

The total footage for 1952 was 2,279,548 feet compared with 2,466,089 feet in 1951. Productive footage was 785,953 feet, and the dry-hole footage was 1,493,595 feet. The average depth per well in 1952 was 1,780 feet as against 1,869 feet for 1951.

Of the 335 new-field wildcats, 18 discovered oil pools and 4 discovered gas pools (Table VII). There were 42 extensions and 17 new pools discovered by successful new-pool wildcat and outpost tests while 11 field development wells discovered new pays in already producing fields or pools (Tables VIII and IX).

The total initial production of all oil wells completed was 30,070 barrels, compared with 30,273 barrels in 1951. The initial production for all gas wells completed decreased from 18,470 MCF in 1951 to 11,570 MCF in 1952. The average initial production for the discovery wells of the new pools was 46 barrels per well compared with 43.5 barrels per well in 1951.

During 1952, there were tests drilled in 41 of Indiana's 92 counties, which was 7 counties fewer than in 1951. Most of the drilling continued to be confined to the southwest part of the state. Considerably more than half the total wells, 847, were completed in 4 counties. These 4 were: Posey, 272; Gibson, 262; Knox, 192; and Pike with 121. Five other counties accounted for 274, which were: Sullivan with 83; Vanderburgh, 75; Vigo, 60; Spencer, 30; and Warrick, 26. This leaves 159 wells for the remaining 32 counties in which drilling operations were carried on.

New production was established in ten counties. Ranking the counties by total discoveries of all types, Gibson County was first with 28; Posey second with 19; Knox third with 16; Pike fourth with 8; Spencer and Vanderburgh fifth and sixth with 6 each; Daviess and Greene seventh and eighth with 3 each; Sullivan ninth with 2; and Vigo tenth with one.

Total oil production in Indiana during 1952 was 11,937,000 barrels as compared with 11,100,000 barrels in 1951, which represents an increase of 7 per cent.

With the exception of three of the new pools, the remaining discoveries were very small, resulting in one to five development wells with the majority being one-well to possibly two-well pools. The most important discovery during 1952 was the Riley South pool of Vigo County which produces from the Devonian limestone. The pool, discovered in September, was essentially drilled up by the end of the year, resulting in 11 producers and one dry hole. The operators have agreed to prorate the wells, and an estimate of 750,000 barrels of reserve has been set up for the pool. The Glezen pool in Pike County leads with the greatest

TABLE VII. DISCOVERY WELLS OF NEW POOLS IN INDIANA IN 1952

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Initial Production (Barrels) ^A	Date of Completion
25. Barker	Vanderburgh	R. E. Hupp, Barker-Preston "A" 1	36-7S-111W	2,076	Cypress	24; 48	7-30
26. Barrett Mitchell South	Gibson	Geo. and Wrather, F. Arslinger 1	13-3S-10W	1,151	Obata	85	9-3
27. Barrett Mitchell West	Gibson	Ashland-Buchman-O'Neal, Kissel 1	34-2S-30W	1,984	Lover Renault	85	12-15
28. Glezen	Pike	Wilson and Bradshaw, E. Dorsan 1	10-1S-30W	1,368	Bethel	150; 3	2-27
29. Grandview East	Spencer	Sun Oil, F. O. Varner 1	20-6S-34W	1,028	Jackson	30	8-13
30. Harmon Gas	Pike	Schoonmaker, W. Dearing 1	23-1S-34W	1,554	Pennsylvanian	2,500,000 cu. ft.	11-12
31. Howesville Gas	Greene	F. L. Lyons, E. McHenry 1	11-8S-7W	1,799	Devonian	180,000 cu. ft.	1-23
32. Johnson South	Gibson	Cherry and Kidd <i>et al.</i> , Callard 1	12-3S-13W	1,243	Pennsylvanian	14	7-16
33. Kolb North	Gibson	Morris Drig., M. Roberts 1	Don 39-S-10W	1,635	Bethel	100	11-12
34. Linton Gas	Greene	F. B. Cline, Shonk-Gabbart 1	10-7N-7W	2,043	Devonian	2,000,000 cu. ft.	7-9
35. Mackey South	Gibson	Sanders and Fye, Kohlmeier 1	21-3S-9W	1,991	Cypress	17	12-24
36. Midway South	Spencer	N. Redwine, W. Sparks 1	13-6S-9W	913	Watersburg	64; 3	6-4
37. Needmore	Knox	Graham Dev. Corp., Collins 1	34-2N-8W	1,374	Aux Vases	15	4-30
38. Newberry	Daviess	B. Abney, Cornelius Bros. 2	6-5N-5W	558	Aux Vases	10; 1	9-3
39. Oden East	Daviess	H. Sterling, V. & O. Daughtery 1	27-5N-5W	878	Salinas	8; 8	1-30
40. Petersburg West	Pike	C. E. O'Neal <i>et al.</i> , G. Davis 2	32-1N-8W	1,560	Salinas	450,000 cu. ft.	11-70
41. Rahm	Vanderburgh	Benedict-Trees, R. Smith 1	1-8S-111W	2,405	Cypress	75	1-7
42. Riley South	Vigo	Fillingame, Bressett Grocery 1	34-11N-3W	1,725	Devonian	18; 48	9-24
43. Spurgeon West	Pike	Ryan and Sharp, Julian Comm. 1	17-3S-7W	1,533	Obata	24	9-17
44. Washington South	Daviess	McCandlish, F. Caragham Hrs. 1	9-2N-7W	1,633	Salinas	2	3-12
45. West Hovey South	Posey	J. H. Gilliam, W. Duckworth "A" 1	27-7S-14W	1,134	Pennsylvanian	16	3-27
46. Wheatonville North	Gibson	Geo. and Wrather, J. Deiss 1	24-3S-10W	1,670	Cypress	8	9-17

^A Oil and water.

TABLE VIII. DISCOVERY WELLS OF EXTENSIONS TO POOLS IN INDIANA IN 1952

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Initial Production (Barrels) ⁴	Date of Completion	Classifications*
1. Caborn Consol.	Posey	Ryan Oil, Edg. Hrs. 2	18-6S-12W	2,358	Cypress	23	2-6	NPW
2. Caborn Consol.	Posey	Donoh, W. M., Klein 3-A	16-6S-12W	1,139	Pennsylvanian	20; 10	6-11	NPW
3. Denny	Sullivan	W. Reiter, Gall. Hinger Land Co. 1	14-8N-10W	859	Pennsylvanian	5	2-27	NPW
4. Farmersville	Pike	J. D. Turner, Holder 1	31-6S-13W	1,295	Pennsylvanian	24	3-10	OP
5. Francisco	Gibson	Berry Drigg, Bell 2	17-2S-9W	1,846	Aux Vases ls.	76	12-17	OP
6. Glazen	Pike	Lozee & Wm. Collins-Dorsan 1	16-1S-8W	1,357	Bethel	138	5-7	NPW
7. Howersville Gas	Greene	F. L. Lee, White 1	11-8N-7W	1,739	Devonian	250,000 cu. ft.	5-21	NPW
8. Martin	Posey	Heath, Wood, Comm. 1	12-3S-12W	2,356	Cypress	10; 2	1-2	OP
9. Monroe City	Knox	Manmoth Oil, Smith 1	11-91S	1,915	Aux Vases	7; 2	1-7	OP
10. Monroe City	Knox	D.K.S. Drig., John Held 1	Don 229-2N-8W	1,506	Aux Vases ls.	15; 40	1-30	OP
11. Monroe City	Knox	Miami Lopez, Smith 1	30-2N-8W	1,608	Jackson	18; 2	7-30	NPW
12. Monroe City North	Knox	Chiles, Adams 1	Don 11-2N-9W	1,587	Aux Vases ls.	150	2-27	OP
13. Monroe City South	Knox	Wilden, Adams 1	Don 8-3N-9W	1,567	Ste. Genevieve	95	8-6	NPW
14. Monroe City West	Knox	D. Carl, All. Williams 1	27-2N-8W	1,329	Aux Vases	18	8-13	NPW
15. Monroe City West	Knox	Levin, Clemens, Hancock 1	21-2N-8W	1,464	Ste. Genevieve	30; 30	10-22	OP
16. Monroe City West	Knox	Clare Mitchell, Snyder 1	Don 11-2N-9W	1,578	Aux Vases	85	2-27	OP
17. Monroe City West	Knox	Beard, Mitchell, Kramer 2	Don 12-2N-9W	1,596	Ste. Genevieve	130	3-26	OP
18. Monroe City West	Knox	Affeld Oil, McCoy 1	Don 13-2N-9W	1,626	Ste. Genevieve	325; 75	6-11	NPW
19. Mt. Vernon Consol.	Posey	G. S. Engle, Oil, Rowe Hrs. 1	13-2N-9W	1,564	Ste. Genevieve	3; 7	12-10	OP
20. Mt. Vernon Consol.	Posey	Th. Carter, Oil, Rowe Hrs. 1	22-7S-14W	2,386	Cypress	181	4-30	OP
21. Mumfords Hills	Gibson	Sanders & F. M. Mumford 1	27-7S-14W	3,151	Lower Renault	40	11-5	NPW
22. Mumfords Hills	Gibson	Buchanan-O'Neal, Barnett-Withenspoon 1	29-3S-13W	2,888	Ste. Genevieve	20; 3	8-27	NPW
23. Owensville	Gibson	F. B. Murch, Montgomery 1	19-3S-11W	2,633	Ste. Genevieve	100	9-24	NPW
24. Owensville East	Gibson	C. Bury, Paul, 1	5-3S-11W	2,038	Cypress	60	1-2	NPW
25. Patoka East	Gibson	Morris, Dale, St. of Indiana,	20-1S-10W	2,014	Ste. Genevieve	10	3-12	OP
26. Patoka East	Gibson	Amis, Malone 1	25-1S-11W	1,861	Bethel	131	6-4	NPW
27. Patoka East	Gibson	Coy Oil, Huey 1	Loc. 7-1S-10W	1,965	Aux Vases & Ste. Genevieve	150; 25	6-11	NPW
28. Patoka East	Gibson	Beard, Kolb 1	21-1S-10W	1,825	Aux Vases	336	8-27	NPW
29. Patoka East	Gibson	Ill. Mid. Cont., Dunlap 1	31-1S-10W	1,953	Ste. Genevieve	187	10-15	OP
30. Patoka East	Gibson	Geo. & Wraether, Kingsburg 1	16-2S-10W	2,093	Ste. Genevieve	125	12-17	NPW
31. Princeton North	Vanderburgh	Walter, et al., Tate 1	35-7S-11W	2,159	Ste. Genevieve	121	11-12	NPW
32. Rahm	Vanderburgh	Wells-Kuester 1	14-5S-7W	2,485	Ste. Genevieve	457; 20	11-10	NPW
33. Ridgeview Gas	Spencer	J. C. Ellis, et al., Williams 1	28-1S-9W	985	Tar Springs	3,000,000 cu. ft.	1-30	NPW
34. Union Bowman Consol.	Gibson	C. Bury, Rode 1	17-6S	1,763	Bethel	48	1-7	OP
35. Union Bowman Consol.	Pike	Holland, Kaufiff 1	16-1N-9W	1,362	Cypress	4,500,000 cu. ft.	1-20	NPW
36. Union Bowman Consol.	Pike	Rayne, et al., Fischel 2	Don 91-1S-10W	1,921	Ste. Genevieve	52	1-30	OP
37. Union Bowman Consol.	Pike	Ryan & Sharp, Fulton 1	21-1R-9W	1,622	Ste. Genevieve	35	1-2	OP
38. Union Bowman Consol.	Gibson	Lewis, Clemens, Clemm 1	21-1R-9W	1,409	Hardsburg	10	4-16	NPW
39. Union Bowman Consol.	Gibson	Coy Oil, Smith 1	21-1R-9W	1,652	Hardsburg & Bethel	34; 110	4-23	NPW
40. York Ferry	Sullivan	Pinkston et al., Crow 1	11-8N-11W	618	Pennsylvanian	8; 20	3-19	OP
41. Warrington East	Vanderburgh	Johnson Drig., Heake 1	23-4S-10W	1,858	Jackson	25; 5	3-31	OP
42. Winslow	Pike	Moser, Richardson 1	31-1S-7W	1,126	Cypress	144; 96	11-12	NPW

⁴ Oil and water.

* NPW—new-pool wildcat.

OP—outpost.

TABLE IX. DISCOVERY WELLS OF ADDITIONAL PRODUCING ZONES IN POOLS IN INDIANA IN 1952

Pool	County	Company and Form	Location	Total Depth (feet)	Producing Formation	Initial production (barrels) ¹	Date of Completion	Classification*
1. Barker	Vanderburgh	Hupp, Barker-Preston 1	36-7S-11W	2,592	Ste. Genevieve	50	10-24	DPT
2. Barrett Mitchell No.	Gibson	H. Sanders, E. Erdell 2	35-6S-10W	1,845	Aux. Vases ls.	140	7-2	NPW
3. Belknap East	Vanderburgh	Indiana Farm Bureau, Schwartz 1	16-6S-11W	2,834	Aux. Vases ls.	67	2-6	DPT
4. Bufkin West	Posey	Lebow, Wentzel 2	16-6S-13W	2,859	Aux. Vases ls. & Ohara (Ohara new pay)	123	9-11	FD
5. Caborn South	Posey	Dayton, Kincaid 1	36-6S-13W	1,770	Palatin	40; 25	2-14	FD
6. Caborn South	Posey	Rossi, Mueller 2	36-6S-13W	2,586	Tar Springs & Cypress (Tar Springs new pay)	80; 4	7-2	FD
7. Caborn South	Posey	Dayton, Martin 1	36-6S-13W	1,100	Peal-Sylvanian	20; 30	7-10	FD
8. Caborn West	Posey	C. C. Clark, Junker 1	35-6S-13W	2,762	Ohara	11	2-27	OP
9. Crunk South	Posey	J. Bander, Herman 1	22-7S-12W	(OWW)	Waltersburg	100; 3	7-9	NPW
10. Farmersville	Posey	Turner, Holler 2	31-6S-13W	2,090	Waltersburg & Tar Springs (Tar Springs new pay)	100; 10	3-31	FD
11. Ford South	Posey	Wilson-Vail-Ashland, Fawcett 1	34-6S-12W	2,734	Ste. Genevieve	28	6-11	NPW
12. Francisco	Gibson	Cunningham, Wilders 1	17-2S-9W	2,729	Aux. Vases ls.	50	10-29	NPW
13. McGary	Gibson	O'Neal et al., Woods 1	0-3S-11W	2,544	Aux. Vases ls.	116	4-30	NPW
14. Mackey West	Gibson	Geo. & Wraether, Haley 1	0-3S-9W	1,773	Jackson	77	12-1	NPW
15. Midway South	Spencer	Gulf, Kinney 1	13-6S-7W	1,465	Ste. Genevieve	71	8-13	DPT
16. Midway South	Spencer	N. Redwine, Sparks 2	13-6S-7W	997	Tar Springs	1,500,000 cu. ft. est.	11-5	FD
17. Monroe City	Knox	Cline-Lambert, Nelson 1	30-2N-8W	1,276	Jackson	8; 10	2-27	OP
18. Monroe City	Knox	F. Lyons, Jenkins 1	Don 20-2N-8W	1,505	Ste. Genevieve	48	4-23	OP
19. Monroe City West	Knox	D. K. Drlg., Jackson 1	Don 176-2N-0W	1,658	Aux. Vases ls.	5; 15	2-20	NPW
20. Monroe City West	Knox	Cline-Lambert, Martindale 1	Don 11-2N-9W	1,580	Ste. Genevieve	240	2-27	OP
21. Mt. Vernon Cons.	Posey	Sinclair, Ross Unit 1	22-7S-14W	(OWW)	L. C. Renault	670	9-3	FD
22. Mt. Vernon South	Posey	Indiana Farm Bureau, Armbruster 1	0-7S-13W	(OWW)	Jackson	40	7-16	NPW
23. New Haven Cons.	Posey	Slagter Prod., Smith 1	28-6S-14W	1,884	Dagonia & Cypress (Dagonia new pay)	52	8-6	FD
24. Patoka East	Gibson	Juan Pet. Co., Manning 1	95-1S-11W	1,893	Bedford	30	8-6	NPW
25. Rogers	Posey	Calvert Drlg., Guenther 1	70-4S-13W	3,659	Ste. Genevieve	52; 180	11-19	NPW
26. Santa Claus	Spencer	J. C. Jones, Kelly 1	25-4S-8W	1,695	Tar Springs	0	2-27	NPW
27. Tri County	Gibson	J. Black, T. H. Pool 1	88-3S-8W	1,623	Ste. Genevieve	7	3-19	OP
28. Wheatonville	Gibson	A. J. Slagter, Leffler 1	25-3S-10W	1,601	Cypress	62	7-30	NPW

4 Oil and water.
 * NPW—new-pool wildcat.
 OP—outpost.
 DPT—deeper-pool test.
 FD—field-development well.

number of producers, which, at the end of the year, totaled around 20; however, nearly the same number of dry holes had been drilled. Production is from the Bethel sand of the Chester. Kolb North, also Bethel production, discovered in November, at the end of the year had 7 producers and several active operations.

Sixteen of the 22 discovery wells of new pools produced from the Mississippian (10 oil pools and 1 gas pool from the Chester series and 5 oil pools from the Lower Mississippian). Of the remainder, 2 oil pools and 1 gas pool were from the Pennsylvanian, and 1 oil and 2 gas pools from the Devonian. Two of the pools produce from both the Chester and Lower Mississippian, and before the year was completed new pays were established in two other pools (Midway South and Barker) by deeper pool tests. Two old dry holes were worked over and successfully completed as new-pool discoveries.

TABLE X. SELECTED LIST OF DRY TESTS IN INDIANA IN 1952

<i>County</i>	<i>Company and Farm</i>	<i>Location</i>	<i>Total Depth (Feet)</i>	<i>Deepest Formation Tested</i>
1. Brown	Hiatt, Fee 1	33-10N-3E	1,435	Trenton
2. Crawford	Roggenkamp, Smith 1	11-2S-2W	2,740	Trenton
3. Dubois	Sunlight Coal, McGuire 1	14-2S-5W	2,424	Devonian
4. Fountain	The Carter Oil Company, Vester 1	33-22N-7W	1,626	Trenton
5. Gibson	T. & H. Corporation, H. and E. Smith 1	6-2S-11W	4,300	Devonian
6. Knox	George and Wrather-Poe, Geurrettaz 1	Loc. 07-3N-10W	5,470	Knox
7. Kosciusko	Eel River Oil, W. and E. Blocher 1	12-30N-6E	3,295	Mt. Simon?
8. Monroe	Joe Solomito, Fee 2	6-9N-1E	2,389	St. Peter

A list of some important dry holes completed in 1952 is given in Table X. The St. Peter test in Knox County was the deepest; however, the test in Kosciusko County penetrated the deepest stratigraphic formation.

A trend may develop toward deeper drilling on some of the better structures since some Salem production has been established (Owensville North as an example) during the year. Subsurface work played the most important role in discovering new oil in 1952. There were only 3 weeks of geophysical work throughout the year with some scattered core drilling, most of which was done in the northern part or the Michigan basin part of the state. There were no gravity-meter crews operating during the year.

As in the past, subsurface studies of structural trends, of porosity-trap possibilities, and of sand-bar conditions in the southwest part of the state, where numerous Pennsylvanian and Chester sands and Ste. Genevieve oölitic limestone porosity zones afford good possibilities, will continue to play a very important part in the future exploratory program.