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letin Series

For the Oil and Gas Industry

STATE OF ILLINOIS
DWIGHT H. GREEN, Governor
DEPARTMENT OF REGISTRATION AND EDUCATION
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DIVISION OF THE
STATE GEOLOGICAL SURVEY
M. M. LEIGHTON, Chief
URBANA

No. 55

ILLINOIS PETROLEUM
PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS

August 16, 1947

# DEVELOPMENTS IN ILLINOIS AND INDIANA IN 1946<sup>1</sup>

ALFRED H. BELL<sup>2</sup> AND RALPH E. ESAREY<sup>3</sup> Urbana, Illinois, and Bloomington, Indiana

#### INTRODUCTION

This report covers the states of Illinois and Indiana. Most of the oil and gas drilling was confined to the southern part of Illinois and southwestern part of Indiana.

Drilling in the two states increased by 42 per cent in 1946 as compared with 1945 and production increased  $2\frac{1}{2}$  per cent. Wildcat completions in the two states increased from 575 in 1945 to 760 in 1946, an increase of 32 per cent. Thirty-nine new fields were discovered, all of which were within a few miles of previous production, so that no new regions were opened for production. There was little deep testing and no major discovery of deeper production.

The details of development are discussed separately for each state.

## ILLINOIS

## By Alfred H. Bell

Drilling for oil and gas in Illinois increased by 34 per cent when 2,362 wells were completed in 1946 as compared with 1,763 in 1945. Of the total completions 633<sup>4</sup> are classified as wildcat wells, an increase of 37 per cent over the 460 wildcat completions in 1945. Factors in this increase were: the expiration of many 10-year leases during 1946; greater availability of materials and manpower; and higher prices for crude oil. Of the 1,729 pool development wells completed in 1946, 298 were in the Mattoon pool, Coles County. Most of the drilling here took place in the first half of the year. Development drilling occurred in many pools of which some of the most active were: Clay City Consolidated, 128 completions; Stokes-

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<sup>&</sup>lt;sup>1</sup> Reprinted from Bull. Amer. Assoc. Petrol. Geol., Vol. 31, No. 6 (June, 1947), pp. 979-987.

<sup>&</sup>lt;sup>2</sup> Geologist and head, Oil and Gas Division, Illinois State Geological Survey, Urbana.

<sup>&</sup>lt;sup>3</sup> Professor of geology, Indiana University, Bloomington.

<sup>&</sup>lt;sup>4</sup> This figure does not include wells which tested additional producing zones in producing areas classified by Lahee as deeper-pool tests and shallower-pool tests.

Brownsville, 88 completions; Marine, 54; Herald, 51; and Calhoun Consolidated, 50.

Total oil production in Illinois in 1946 was 75,297,000 barrels, as compared with 75,094,000 barrels in 1945, an increase of about 0.3 per cent. Average daily production during 1946 was 206,000 barrels. Average daily production, by months, during the year varied between 197,000 barrels (December) and 212,000 barrels (May).

### NEW POOLS DISCOVERED

Thirty-one new pools were discovered in Illinois in 1946 (Table I, and Fig. 1), 58 extensions to pools were discovered by wildcat wells (Table II), and 33 wells, most of which can not be designated properly as exploratory wells, discovered additional producing zones in producing areas (Table III).

Most of the new pools discovered were located within a short distance of previous production. Those farthest away from previous production were Lilly-ville, Cumberland County (19, Table I, Fig. 1), Omega, Marion County (23, Table I, Fig. 1), and Waverly gas (30, Table I, Fig. 1), none of which is as much as 20 miles from previous production.

#### IMPORTANT EXPLORATORY WELLS

A list of some of the most noteworthy dry holes is given in Table IV. On the whole there was little deep testing in Illinois in 1946. Of the 14 wells listed in Table IV, all but two (Nos. 2 and 10) were located wholly or in part on the basis of subsurface geology. Number 2 was located by seismograph only, and numbers 1, 5, and 6 were located by a combination of subsurface geology and seismograph. Number 10, the Trempealeau test in McLean County, was located without a scientific basis.

The geographic pattern of exploratory drilling in Illinois and Indiana in 1946 followed that established in the last few years except for an increased relative amount in Coles and surrounding counties in Illinois resulting from the development of the Mattoon pool.

An analysis of the methods used in locating wildcat wells in Illinois is given in Table V.

The amount of geophysical exploration, by months, during 1946 in Illinois and Indiana is given in Table VI. The method used most is the reflection seismo-

<sup>&</sup>lt;sup>5</sup> A strict distinction between the terms field and pool is difficult to maintain for the Illinois-Indiana area because of the large number of producing formations, several of which are confined to a relatively small stratigraphic section, and because of the large number of separate productive lenses in a single producing zone. The number of oil and gas pools (defined as separate reservoirs) is not accurately known but is undoubtedly more than a thousand for Illinois alone. If a field is defined as all of the pools on a single well defined structural feature, the Southeastern Illinois field located on the LaSalle anticlinal belt is a good example. But for many of the newer producing areas in the Illinois basin there is much room for difference of opinion as to a proper grouping into "fields." The word pool is used in this report to mean, in general, a separate producing area, but there are numerous exceptions where two or more separate producing areas are grouped together under a single pool name.

· Oil and water.

TABLE I DISCOVERY WELLS OF NEW POOLS IN ILLINOIS IN 1946

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation	Depth to Top (Feet)	Initial Production (Barrels)*
1. Beaver Creek South	Clinton Jasper	J. L. Garard, Vieregge-Mahlandt 1 Secure Oil, C. L. Ireland 1	7-3N-2W 11-6N-10E	1,146	Bethel Rosiclare; McClosky	1,131	17; 42
Browns East	Wabash	Magnolia, W. J. Pfeiffer 1	11-2S-14W	3,050	Cypress	2,596	12; 34
Concord North	Shelby	Sobio, Flenner I	17-10N-4E	1,788	Bethel	1,774	12,16
Cooks Mills North	Coles	Nolan, Coombs Est. 1	23-14N-7W	1,705	Rosiclare	2,950	248
. Covington East	Wayne	K. & B. Drlg., Smith 1	21-15-7克	3,323	Aux Vases	3,144	7.3
. Crossville	White	Inland Prod., Rister I	15-45-10E	3,164	McClosky	3,123	18; 10
Flora South	Clay	Deep Rock, Given 1	4-2N-6E	2,743	McClosky	2,700	30
I. Friendsville Central	Wabash	G. Engle, D. Wilkinson 1	14-1N-13W	2,344	Bethel	2,321	40: 5
	Wahash	Heldt, Smith I	12-1N-13W	2,539	Biehl	1,644	0
3. Initialgo inoluli	Clav	N. V. Duncan I. Leonard 1-A	30-9IN-9E	2,770	Rosiciare	2,048	15
. Hoosier North	Clay	Eason Oil, N.E. Gibson I	35-5N-7E	2,823	Aux Vases	2,850	145; 7
Junction North	Gallatin	J. Reznik, A. Valter I	3-9S-9E	2,749	Aux Vases	2,726	8; 24
٦,	Wahash	S. Malis, W. Fite I	7-IN-13W	2,824	Rosiclare		000
-15	Wabash	No. Malls, Litherland I	20-IN-I3W	2,800	McClosky		01;091
of Massilon	Wavne	Teres F Hines "C"	31-01N-7E	2,454	McClosky 1 error O'Hear		140
	Wabash	Haves & Wolfe. Smith I	17-1S-12W	3,202	Bethel	3,254	192
22. Omaha East	Gallatin	Deep Rock, Pioneer Trust Bk. 1	2-8S-8E	2,080	Lower O'Hara	2.843	10, 10
Omega	Marion	Doran & Delta, Millican Est. 1	16-3N-4E	2,400	McClosky	2,4,688	20
. Kichview	Washington	Nat'l Consumers Oil Koelling-Pitchford I	W1-25-01	I,532	Cypress	1,520	31
~~	Canacin	Wiser Oil, Mitsuarner I	24-02-0E	2,938	McClosky	2,842	21
20. Sandoval west	Chalter	Doran, Thomas I	13-2N-1W	I,423	Cypress	1,417	22; 96
27. Shelly ville	Clear	T D Displace Homell -	ZI-IIIN-4E	1,555	Aux vases	1,830	2;3
	Logge	I. D. Dinckson, nowell I	9-2IN-7E	3,205	Aux vases	2,959	175
20. Waverly	Morgan	Ladet Stenemever I	22-12N-9E	3,104	Penneylyenien	3,122	40; 52
	Tasper	Pure & Carter, Dodd 1	6-6N-11E	2.722	McClosky	2,420	1,700,000 cu. it.
				-016-	Caconomic Carried	***	001

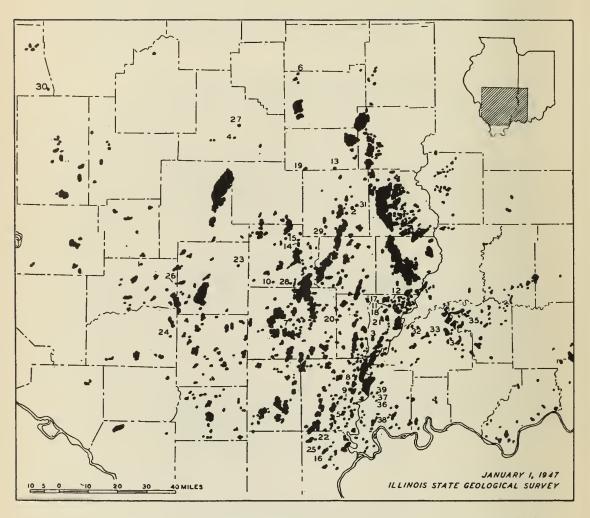


Fig. 1.—New pools discovered in 1946. All present and former oil and gas producing areas are shown in black. (See Tables I and VII for pool identification.)

TABLE II
DISCOVERY WELLS OF EXTENSIONS TO POOLS IN ILLINOIS IN 1946

				Total		Dobite	Indian
Pool	County	Company and Farm	Location	Depth (Feet)	Producing Formation	to Top (Ferl)	Production (Barrels)*
1. Aden South	Hamilton	Weinert, Hall I		3,446	Aux Vases; Rosiclare	3,249; 3,335	26; 80.
2. Bartelso West	Clinton	Goldschmidt, Loepker I	19-1N-3W	963	Cypress	938	10; 15
	Wabash	Gilliam & Aspin, H. L. Herin 1		2,971	Lower O'Hara	2,965	240
5. Browns East	Wahash	Magnolia, J. Hirschelman Unit 1		2,582	Cypress CyHerr	2,575	300
	White	Pure, Adams "A"		3,170	Rosiclare	3,097	100; 118
	Hamilton	Magnolia, Robrer 1		3,290	Aux Vases	3,273	27; 3
o. Canoun Consol.	Wayne	Lynn. Dve I	2-1S-7E	3,166	McClosky	3,147	250
II. Clay City Consol.	Clay	Robinson & Puckett, S. Bates I	14-2N-8E	3,035	Rosiclare	3,018	1,322
12. Clay City Consol.	Wayne	Redwine, C. E. Downer 1	31-1N-8E	3,210	Lower O'Hara	3,122	115
13. Clay City Consol.	Wayne	Slagter, Crisman I	32-IN-6E 20-IN-8E	3,153	McClosky	3,054	277
15. Clay City Consol.	Wayne	Slagter, R. Pierce 1	22-2N-8E	3,052	McClosky	3,029	432
ré. Clay City Consol.	Wayne	Ill. Mid-Cont., H. Miller 1	13-1N-7E	3,148	Rosiclare	3,108	30; 70
17. Clay City Consol.	Wayne	Slagter, Gray I	10-13-8E	3,281	Aux Vases	3,104	m v
10. Clay City Consol.	Wayne	McCall and Cline. Atterberry 1	31-21N-1E	3,109	Aux Vases	3,059	8: 24
20. Covington East	Wayne	Nation. Gallagher 1	16-1S-7E	3,236	McClosky	3,210	10; 50
21. Epworth East	White	Allen, Williams 1	33-5S-10E	3,126	Aux Vases	3,002	24: 36
	Wahash	Leavitt, A. I Gher I	1-1N-13W	1,621	Biehl	1,607	200
	Richland	Pure, Gallagher 1	12-2N-9E	3,181	McClosky	3,166	786
	Wayne	Fulk, L. B. Ellis I	20-27-0E	3,477	Kosiclare	3,408	30, 25
25. Heraid	Waite	Dobinson & Puckett Roley r	14-73-9E	2,002	Rosiclare	2,003	205
2	Clay	K-B Drlg., Hastings I	12-4N-7E	2,638	Cypress	2,603	2 2
28. Ingraham West	Clay	Brinkerhoff, O. A., Barlow 2	11-5N-7E	2,539	Cypress	1,525	165
	Clay	Gilliam & Aspin, H. D. Lewis 1	15-5N-7E	2,941	McClosky	2,870	15:35
30. Iron	White	Nat'l Assoc. Pet., Fisher I	13-02-8E	2,339	Tar Springs	2,328	34; 20
31. Johnsonville West	Wayne	Deep Rock, Olysses I	26-IN-6E	3.086	McClosky	3.072	13
33. Keenville	Wayne	Markham, Keeler-Ellis 1	21-1S-5E	3,126	McClosky	3,118	20:0
	Wayne	Mitchell, Cornstubble 1	27-1S-5E	2,973	Aux Vases	2,960	175; 300
	Lawrence	Zanetis, American Nat'l Bank 1	23-3N-11W	1,942	McClosky	1,849	0 000 000 000 000 000 000 000 000 000
30. Manne	Madison	Loper, M. Keding I	14-4N-0W	1,793	McClocky	1,759	00: 170
37. Markham City West	Jenerson	Gulf, Green I	10-33-4E	3,050	McClosky	3,031	128, 15
20. Mason South	Clav	Lynch, Wright 1	3-4N-4E	2,521	McClosky, Rosiclare	2,430; 2,425	2003
40. Mattoon	Coles	Nat'l Consumers, Arthur 1	2-12N-7E	1,962	Rosiclare	I,934	22; 27
41. Maud North	Wahash	Hayes & Wolfe, Meyer I	8-1S-13W	2,578	Bethel	2,550	140
42. Maunie North	White	Westher Thomsoon 1	13-53-10E	3,207	Silurian	1.870	31: 42
						•	
Consol.		Superior, H. C. Ford 27	8-55-14W	3,007	McClosky	2,935	400
45. Newton		Mennall, J. Eaton I	26-7N-9E	2,043	Pennsylvanian	735	2,000,000 cu. ft.
47. Parkershurg Consol.		Slagter, Fisher I	4-2N-14W	3,150	McClosky	3,125	09:90
124		Sun Oil, Okerson 1	9-7S-8E	3,114	McClosky	3,018	12; 30
49. St. Francisville East		Bauer, Brevoort I	10-2N-11W	1,852	Bethel	1,701	8.35
So. Sailor Springs Consol.		Central Pine Line Tarnley	21-31-7E	2,040	Bethel	2.034	20°.
52. Springerton	Hamilton	Sobio, Thomas I	11-4S-7E	3,504	Aux Vases	3,270	H .00
		Rudy, O. Tackett I	8-2N-7E	3,087	McClosky	3,080	II; I2
54. Stokes	White	Pure & Carter, E. S. Munsey I	8-02-9E	3,205	Hardinsburg Tar Springs, Waltershurg	2,555	0:30
so. Trumpull		Lewis. Nibling 1	7-5S-9E	3,270	Rosiclare		146; 10
57. Trumbull		Lewis, Bingham I	17-58-9E	3,173	Aux Vases McClosky		65; 144 60
So. Willow Mill	Jasper	Lynn, raippier i	701-11/-/2	2///:	- Caronara	١.	
1 100							

· Oil and water.

TABLE III
DISCOVERY WELLS OF ADDITIONAL PRODUCING ZONES IN POOLS IN ILLINOIS IN 1946

Initial Production (Barrels)*	26; 80b 20; 80c 20; 80c 20; 80c 20; 10c 20; 10
Depth to Top (Feet)	
Producing Formation	Aux Vases Degoilare Degoilare Degoilare Degoilare Lower O'Hara Tar Springs Tar Springs Tar Springs Lower O'Hara Rosiclare Rosiclare Aux Vases Rosiclare Lower O'Hara McClosky Hardinsburg Aux Vases Aux Vases Aux Vases Rosiclare Aux Vases Rosiclare Aux Vases Rosiclare Aux Vases Rosiclare Rosiclare Aux Vases Rosiclare Rosiclare Rosiclare Aux Vases Rosiclare Rosiclare Rosiclare Aux Vases Rosiclare
Total Depth (Feet)	88 4 4 8 4 4 8 4 4 8 8 4 4 4 8 8 4 4 8 8 8 8 8 4 8 8 8 8 8 9 9 4 4 4 4
Location	29.30.77E 20.30.77E 20.30.
Company and Farm	Weinert, Hall I Shell, Doty I Shell, Doty I Cilliam & Aspin, H. L. Hering I Tex Harvey, Marshall Smith I G. H. Wickham, Schroeder S W. O. Allen, J. Williams I Robinson & Puckett, Haymes I Oil Management, J. J. Harrell I Pure Oil, Austin Consol, "B" I N. V. Duncan, Gibson I Kingwood, Wyatt I Cities Service, Wyatt I Kebn, Modglin I First Natl. Pet. Trust, Shaw-Courter 2-A First Natl. Pet. Trust, Shaw-Courter 2-A First Natl. Pet. Trust, Shaw-Courter 2-A Wingt Vold, IL A. Wasson 3 Texas, R. Scherer 2 Sinclair & Ohio, Riechen 2 Sinclair & Ohio, Riechen 2 Sinclair & Ohio, Riechen 1 Syford Oil, V. Johnson 3 Ryford Oil, V. Johnson 3 Ryford Oil, W. T. Hall I W. I. Lewis, Nibling I L. M. Ladet, McKahan I Secure Oil, L. Mascher I
County	Hamilton Franklin Wabash Wabash Wabash Wabash Wabash Wayne Clay Clay Clay Clay Clay Clay Clay Clay
Pool	1. Aden South 2. Aden South 3. Aden South 4. Benton 4. Browns 5. Covington East 6. Cowling 7. Epworth East 7. Epworth East 7. Herald 11. Hoosier 12. Ingraham West 13. Ingraham West 14. Ingraham West 15. Ingraham West 16. Ingraham West 17. Markham City West 18. M. Carmelly 19. Newton 10. Nowlon 10. Now

b Dual completion.

graph and the number of crews increased from 4 in January to 8 in December. In Indiana only the magnetometer method was reported in use.

## STRATIGRAPHY

The geologic system which produces most of the oil in Illinois and Indiana continues to be the Mississippian, and the bulk of the discoveries of new fields, extensions, and new producing formations were in the Mississippian.

# TREND IN EXPLORATION, LEASING AND DRILLING

The trend in leasing and drilling was downward in the latter part of 1946 but this was partly seasonal. There will probably be less drilling, both wildcat and

	TAI	BLE IV		
SELECTED L	IST OF DRY	TESTS IN	ILLINOIS I	N 1946

Pool	County	Company and Farm	Location	Total Depth (Feet)	Deepest Formation	Depth to Top (Feet)
1. 2. 3. Mattoon 4. 5. 6. Lillyville <sup>a</sup> 8. Rural Hill 9. Boyd 10. 11. Tonti <sup>b</sup> 12. Tonti <sup>b</sup> 13. Waverley <sup>o</sup>	Bond Bond Coles Coles Coles Crawford Cumberland Hamilton Jefferson Madison Marion Morgan St. Clair	Sohio, Mohme 1 Sohio, Long 1 Sohio, Long 1 Sh. & K. Drlg., Strong 1 Obering, Biemer 1 Nat'l. Assoc. Pet., Stiffe 1 Nat'l. Assoc. Pet., Handley 1 Nat'l Assoc. Pet., Krogman 3 Shell, Nobava 4 Superior, Friedrich 10 Minnesota Prod., McGowan 1 Jarvis & Marcell, Hitz 1 Harvey, Kagy 1 Ladet, McMahan 11 Young, McCurdy 6	14-6N-5W 26-6N-5W 22-12N-7E 26-14N-7E 6-6N-11W 26-10N-7E 31-0N-7E 13-6S-5E 19-1S-2E 33-24N-5E 8-5N-5W 33-3N-2E 22-13N-8W 29-3S-6W	2,668 2,768 3,101 2,888 3,281 3,815 4,000 5,481 3,870 3,510 2,797 4,900 1,543 2,368	Trenton Trenton Devonian Devonian Devonian Devonian Devonian Devonian Devonian Trempealeau Trenton Trenton Maquoketa	2,608 2,623 3,111 2,873 2,878 3,670 5,104 3,737 3,260 2,692 4,769 1,400 2,312

Plugged back to McClosky oil.
 Plugged back to Devonian oil.
 Plugged back to Devonian gas.

pool development, in 1947 than in 1946. The expiration of additional 10-year leases, the higher prices for crude oil, and continued high demand, all favor continued activity in leasing and drilling, and it seems likely that total drilling will exceed that of 1945.

There is much interest in prospecting for Silurian reef production in the western marginal area of the Illinois basin. A considerable amount of leasing has been done and there will probably be exploratory drilling in this area in 1947. Plans have been announced for testing the pre-St. Peter Ordovician and Cambrian strata on the Pittsfield-Hadley anticline in western Illinois. If production should be found it would stimulate further testing of these strata.

## INDIANA

# By RALPH E. ESAREY

During the year 1946, drilling activity in the petroleum industry exceeded all expectations with an increase of 75 per cent in well completions and an increase of more than 200 per cent in the total initial production from new wells. A total of 508 wells were drilled during the year, of which 431 were pool wells and 127

TABLE V
WILDCAT WELLS DRILLED IN ILLINOIS IN 1946, CLASSIFIED BY METHOD OF LOCATION

Walland of Familian	Wilde	at Near	Wilde	at Farb	Total	Total	Percentage
Method of Location	Total	Producers	Total	Producers	Wildcats	Producers	Successful
Geology	296	55	252	27	548	82	15.0
Seismograph	4	I	I	i	" ' ' ' '	2	40.0
Geology and seismograph	11	2	28	3	39	5	12.8
	311	58	281	31	502	80	15.0
Nonscientific	2	0	35	-0	37	ó	0.0
Unknown	I	0	3	0	4	0	0.0
Total	314	58	319	31	633	89	14.0

<sup>&</sup>lt;sup>3</sup> One half to 2 miles from production. b More than 2 miles from production.

TABLE VI
GEOPHYSICAL EXPLORATION, BY MONTHS, IN ILLINOIS AND INDIANA IN 1946

Period		Illi	inois			I1	sdiana	
(1946)	Seis.	Grav.	Magnet.	Res.	Seis.	Grav.	Magnet.	Res
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.	(a) (b) 4-16 5-18 5-21 5-17 5-20 5-25 6-23 6-24 6-30 6-24 7-25 8-39	I-2 I-5	1-1	I-3 I-4 I-5 I-4 I-5			2-6 2-8 2-8 2-10 2-8	

First figure indicates number of crews working.

b Second figure indicates number of working weeks completed.

TABLE VII
DISCOVERY WELLS OF NEW POOLS IN SOUTHWESTERN INDIANA IN 1946

Pool	County	Company and Farm	Location	Total Depth (Feel)	Producing Formation
32. Grand Rapid 33. Princeton N.E. 34. Francisco W. 35. Union Bowman New 36. Springfield 37. Springfield N. 38. Farmersville S. 39. New Harmony E.	Gibson	Ill. Midcontinent, Parkinson 2	24-1S-12W	2,095	Bethel
	Gibson	Eldin Hayden, Crecilius 2	5-2S-10W	2,080	McClosky
	Gibson	L. A. Plumb, Coleman Comm. 1	7-2S-9W	1,965	Ste. Genevieve
	Pike	W. L. Litchlyter, A. Conley 1	3-1S-9W	1,058	Waltersburg
	Posey	H. E. Ledbetter, N. Utley 1	30-5S-13W	3,111	Ste. Genevieve
	Posey	Calvert et al., Fretageat 1	24-5S-14W	2,029	Palestine
	Posey	Paul Rossi, Rippey 1	30-6S-13W	2,484	Pennsylvanian
	Posey	Calvert & Willis, Fred Wiley 1	18-5S-13W	2,023	McClosky

TABLE VIII
DISCOVERY WELLS OF EXTENSION TO POOLS IN SOUTHWESTERN INDIANA IN 1946.

Pool	County	Company and Farm	Location	Total Depth (Feet)	Producing Formation
Dodds Bridge	Sullivan	Roy Myers and Ohio Oil Co., E. Hayden 1	10-8N-10W	1,483	Salem
Mt. Carmel	Knox	H. E. Ledbetter, Steckler 1	22-1S-12W	2,088	Betbel
Dodds Bridge	Sullivan	Roy Myers and Obio Oil Co., O. Benson	10-8N-10W	1,458	Salem
Ricb Valley Troy	Wabash Spencer	J. Minneci, Ida Votaw 1 Stroble-Busick 1	12-27N-5E 11-6S-4W	870 723	Trenton Cypress

were wildcat wells. Seventeen discovery wells were drilled, 15 of them finding new oil fields or extensions, and 2 opening new gas fields or extensions. About 83 per cent of the pool wells were producers and 13 per cent of the wildcat wells encountered commerical production. Only a 10 per cent increase in wildcatting took place, but the stage in the development of the basin and the general industrial situation account for this figure. The total footage of new holes amounted to 985,743 feet, which increased the daily production of oil by 7,743 barrels.

The greatest activity took place in the pools along the Wabash River in Posey and Gibson counties. Seven of the new fields and most of the additional production were found in this area. However, many pool wells were drilled in central and western Gibson County, where the Princeton North field has been extended into the city limits of Princeton. Another town-lot "boom" may be in prospect. Two active areas in southern Knox County are creating unusual interest also, and more development is expected during the coming year.

Roy Myers and the Ohio Oil Company opened a new pool in Sullivan County where 6 wells have been completed in the Salem limestone at an average depth of 1,400 feet. This is an extension of the Dodds Bridge field. Production is reported as about 150 barrels daily per well. An extension of the Troy field in Spencer and Perry counties was made by C. A. Busick, who completed two wells in the lower Chester, reported as producing 75 barrels each.

Outside of the Eastern Interior basin, the Horton field in Hamilton County is the most active. As previously reported, it is an extension of the old Trenton pool, producing at 1,050-1,100 feet. The new wells vary in initial production from 25 to 75 barrels per day. New completions were reported in the Henderson field in Jay County, near the state line of Ohio. The wells were small, however, and did not add greatly to the production of the field. Some additional testing was done near the old Rich Valley field of Miami County, but the results were discouraging. Two small producers were completed which might be considered extensions, but it is doubtful if they prove commercial.

Some of the interesting deep tests were as follows: Continental Oil Company's Cooper Estate in Sec. 13, T. 3 S., R. 14 W., Griffin field, tested the Trenton; Duncan et al. Miller No. 1 in Sec. 18, T. 9 N., R. 5 W., Owen County, reached the Glenwood-St. Peter formation; J. Regan's Luther No. 1, Sec. 19, T. 10 N., R. 6 W., Clay County, tested the Glenwood-St. Peter horizon also; and the Kankakee Development Company's State Bank of Renssalaer No. 1 in Sec. 14, T. 30 N., R. 6 W., Jasper County, was abandoned in the Mt. Simon sandstone of Cambrian age.

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